FINAL
OPERATIONS AND MAINTENANCE (2ND THROUGH 4TH QUARTER 2017 AND 1ST QUARTER 2018) AND AIR SAMPLING ACTIVITIES REPORT SD052-01 APRON 2 CHLORINATED PLUME SITE (BUILDINGS 785 AND 786) AND SD052-02 BUILDING 775 SITE (BUILDINGS 774 AND 776) SUB-SLAB VAPOR MITIGATION SYSTEMS FORMER GRIFFISS AFB, ROME, NEW YORK

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ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEC	Air Force Civil Engineer Center
AFRL/RRS	Air Force Research Laboratory/Rome Research Site
AFRPA	Air Force Real Property Agency
AOC	Area of concern
bgs	Below ground surface
Bhate	Bhate Environmental Associates, Inc.
BRAC	Base Realignment and Closure Act
CAPE	CAPE Environmental
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Contaminant of concern
DCE	Dichloroethene
DoD	Department of Defense
EEEPC	Ecology and Environment Engineering, P.C.
ELAP	Environmental Laboratory Accreditation Program
ERPIMS	Environmental Resources Program Information Management System
FFA	Federal Facilities Agreement
FPM	FPM Remediations, Inc.
FS	Feasibility Study
ft	Feet
ft^2	Square feet
GAC	Granular activated carbon
HI	Hazard Index
HQ	Hazard Quotient
IC	Institutional Control
IRA	Interim Remedial Action
J	Laboratory flag indicating an estimated concentration
KO	Knockout
LTM	Long-term monitoring
LUC	Land Use Control
µg/L	Micrograms per liter
$µg/m^3$	Micrograms per cubic meter
mL/min	Milliliters per minute
NPL	National Priorities List
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operations and maintenance

OSWER	Office of Solid Waste and Emergency Response
PCE	Tetrachloroethene
RAO	Remedial Action Objective
RI	Remedial Investigation
ROD	Record of Decision
ROI	Radius of influence
RSL	Regional Screening Level
SAC	Strategic Air Command
scfm	Standard cubic feet per minute
SI	Supplemental Investigation
SIM	Selected Ion Monitoring
SSVM	Sub-slab vapor mitigation
SVI	Soil vapor intrusion
TCA	Trichloroethane
TCE	Trichloroethene
UFP-QAPP	Uniform Federal Policy-Quality Assurance Project Plan
U.S.	United States
USAF	U.S. Air Force
USEPA	U.S. Environmental Protection Agency
VC	Vinyl chloride
VMP	Vapor monitoring point
VOC	Volatile Organic Compound
w.g.	Water gauge

1 INTRODUCTION

Bhate Environmental Associates, Inc. (Bhate) has been contracted by the Air Force Civil Engineer Center (AFCEC) to perform and optimize the Operations and Maintenance (O&M) on sub-slab vapor mitigation (SSVM) systems associated with soil vapor intrusion (SVI) at Sites SD052-01 Apron 2 Chlorinated Plume Site [Buildings 785 and 786] and SD052-02 Building 775 Site [Buildings 774 and 776] at the former Griffiss Air Force Base (AFB) in Rome, New York (**Figure 1**). These two SVI sites are collectively referred to as SD052-SVI. In accordance with the *Final Record of Decision* [ROD] *Soil Vapor Intrusion at SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) Former Griffiss Air Force Base, Rome, New York* (AFCEC, September 2016) (herein referred to as the Final ROD), the selected remedy for the two SVI sites is horizontal sub-slab depressurization (active SSVM system).

Bhate has prepared this O&M Report in accordance with Contract Number FA8903-16-F-0012. This report specifically addresses air sampling activities conducted during March 2018 along with O&M activities performed during the second, third, and fourth quarters of 2017 and in the first quarter of 2018 at the SD052-SVI sites. Recommendations based upon these events and activities are also presented in accordance with the Final Optimization Plan (Bhate, April 2017).

The following SD052-SVI sites are addressed in this report and are shown on **Figure 1**:

- Buildings 785 and 786 (SD052-01 Apron 2 Chlorinated Plume Site)
- Buildings 774 and 776 (SD052-02 Building 775 Site)

1.1 Griffiss AFB Operational History

The mission of the former Griffiss AFB varied over the years. The base was activated on February 1, 1942, as Rome Air Depot, with the mission of storage, maintenance, and shipment of material for the United States (U.S.) Army Air Corps. Upon creation of the Air Force in 1947, the depot was renamed Griffiss AFB. The base became an electronics center in 1950, with the transfer of Watson Laboratory Complex (later Rome Air Development Center [1951], Air Force Research Laboratory/Rome Research Site [AFRL/RRS]), and then the Information Directorate at RRS was established with the mission of applied research, development, and testing of electronic air-ground systems. The headquarters of the Ground Electronics Engineering Installations Agency was established in June 1958 to engineer and install ground communication equipment throughout the world. The 49th Fighter Interceptor Squadron served at Griffiss AFB from 1959 until its inactivation in 1987. On July 1, 1970, the 416th Bombardment Wing of the Strategic Air Command (SAC) was activated with the mission of maintenance and implementation of both effective air refueling operations and long-range bombardment capability. Griffiss AFB was designated for realignment under the Base Realignment and Closure Act (BRAC) in 1993 and 1995, resulting in deactivation of the 416th Bombardment Wing in September 1995.

1.2 Environmental Background

As a result of the various national defense missions carried out at the former Griffiss AFB since 1942, hazardous and toxic substances were used, and hazardous wastes were generated, stored, or disposed of at various sites on the installation. The defense missions involved were, among others: the procurement, storage, maintenance, and shipment of war material; research and development; and aircraft operations and maintenance.

Pursuant to Section 105 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Griffiss AFB was included on the National Priorities List (NPL) on July 15, 1987. On August 21, 1990, the U.S. Air Force (USAF), the U.S. Environmental Protection Agency (USEPA), and the New York State Department of Environmental Conservation (NYSDEC) entered into a Federal Facilities Agreement (FFA) under Section 120 of CERCLA. On March 20, 2009, 2,897.2 of the 3,552 acres were deleted from the NPL.

1.3 Purpose and Goals

This report presents the air sampling activities, O&M activities, and results on a site-by-site basis including a general overview of site conditions, results of the monitoring, conclusions, and recommendations for ongoing remedial actions, monitoring, and reporting. The goal of this report is to assess the selected remedy (SSVM) presented in the Final ROD (AFCEC, September 2016), to insure the protection of human health and the environment at Buildings 785 and 786 (SD052-01 Apron 2 Chlorinated Plume Site) and Buildings 774 and 776 (SD052-02 Building 775 Site).

1.4 Basis for Air Sampling

As indicated in the Final ROD, the SVI potential at Site SD052-01 Apron 2 Chlorinated Plume Site (Building 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) are the result of contaminated groundwater beneath the buildings. The results from the Feasibility Study (FS) for SVI at Buildings 774, 776, 785, and 786 indicated that the contaminants of concern (COCs) are confined to Volatile Organic Compounds (VOCs), with the exception of chloroform. A meeting was held between the Air Force, Air Force Institute of Occupational Health, NYSDEC, New York State Department of Health (NYSDOH), and the USEPA on December 13, 2007, to discuss the SVI survey findings. During this meeting, it was decided that chloroform was not a COC (FPM Remediations, Inc. [FPM], April 2008).

Sampling locations and site features at Buildings 785/786 and Buildings 774/776 are shown on **Figure 2** and **Figure 3**, respectively. Plumes depicted on the figures are based upon the 2016 annual groundwater sampling presented in the *Final 2016 Annual Performance Monitoring Report On-Base Groundwater Remediation, Former Griffiss AFB, New York* (Bhate, July 2017).

1.5 Regulatory Screening Criteria

In accordance with Section 8 (Remedial Action Objectives) of the Final ROD (AFCEC, September 2016), screening levels are based on applicable NYSDOH criteria and pertinent USEPA Regional

Screening Levels (RSLs). Sub-slab soil gas and indoor air laboratory results were compared to the NYSDOH "no further action" screening criteria (NYSDOH, October 2006, May 2017 update) that can be found at http://www.health.ny.gov/environmental/investigations/soil_gas/svi_guidance/ and/or USEPA industrial/commercial air RSLs, Hazard Quotient [HQ] = 1 (USEPA, May 2018) for COCs.

Specifically, the above screening criteria for both NYSDOH and USEPA are presented in decision matrices that provide guidance on a case-by-case basis about actions that should be taken to address current and potential exposures related to SVI. USEPA matrices were provided by Mr. Bob Morse, Remedial Project Manager, USEPA Region 2, Emergency and Remedial Response Division, on September 6, 2017, during a personal communication.

The NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) establishes two "no further action" scenarios. The first requires indoor air samples to be below 0.2 micrograms per cubic meter (µg/m^3) with a corresponding sub-slab concentration of less than 60 µg/m^3. The second option for achieving the no further action criteria requires indoor air samples to be below 1.0 µg/m^3 with a corresponding sub-slab concentration of less than 6 µg/m^3.

As per the [Office of Solid Waste and Emergency Response] *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air* (USEPA, June 2015), sub-slab vapor screening levels are 33 times the Indoor Air Screening Level. Under the USEPA industrial/commercial trichloroethene (TCE) cancer risk scenario to achieve "no action" criteria, indoor air needs to be below the industrial/commercial air RSL for TCE of 3 µg/m^3 (USEPA, May 2018) and corresponding sub-slab results need to be below 99 µg/m^3 which is based on 33 times the Indoor Air Screening Level (USEPA, May 2018). Furthermore, the USEPA Industrial/Commercial TCE noncancer hazard scenario requires the indoor air and sub-slab concentrations to be below the hazard index of 1.0. The established criteria by NYSDOH and USEPA prevents individual human exposure to soil gas vapor levels within buildings at unacceptable levels represented by an excess cancer risk greater than 1 x 10^{-6} and a potential noncancer hazard for a hazard index greater than one. USEPA's updated vapor intrusion guidance (USEPA, June 2015) is available at: https://www.epa.gov/vaporintrusion/technical-guide-assessing-and-mitigating-vapor-intrusion-pathway-subsurface-vapor.

1.6 Site Description

1.6.1 SD052-01, Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

Buildings 785 and 786 are located on the southwestern corner of Apron 2 between Aprons 1 and 2 (**Figure 2**). The SVI potential at these buildings is a result of contaminated groundwater associated with the Apron 2 Chlorinated Plume Site (SD052-01). Each building is 28,251 square feet (ft^2) and are currently unheated airplane hangars. The buildings are largely open with several first and second floor offices on the buildings' interior perimeters. Buildings 785 and 786 were built in 1959 on a 13.5 to 14-inch thick, unsealed concrete slab. These buildings served as aircraft maintenance facilities (nose docks) and were taken out of service in 1995 after Griffiss AFB was realigned.

Building 786 was occupied for a few years by a pallet refurbishing company until 2002. From 2002 to 2013, the buildings were used for equipment storage. During that time, all heating and air handling equipment were in a state of disrepair and assumed inoperable. In addition, the buildings were poorly sealed due to broken windows, open hangar doors, and missing exterior sheet metal. Buildings 785 and 786 were renovated in the summer of 2013 and included repairs to the hangar doors, exterior sheet metal, and windows; repairs to electrical and heating systems; interior and exterior painting; and removal of first and second floor offices. Floor painting and epoxying activities were completed inside Building 786 in late September to early October 2016. It was noted on the Building 785 SVI Sampling Questionnaire dated March 21, 2018 (included in **Appendix B** of this report), that recent indoor painting had been conducted. However, there were no VOC exceedances in the indoor air sample collected on this date. Currently, Buildings 785 and 786 remain unoccupied however, Building 785 is an open aircraft hangar used for vehicle storage. A copy of the product data sheets used during the floor painting and epoxying work is included in **Appendix A**. Currently, the buildings are used for storage by the Griffiss International Airport.

1.6.2 SD052-02 Building 775 Site Buildings 774 and 776

These two buildings are located between Phoenix Drive and Ready Road at the former Griffiss AFB in Rome, New York (**Figure 3**). The SVI potential at these buildings is a result of contaminated groundwater associated with the SD052-02 Building 775 Site. Building 774 is a one-story office building, approximately 18,990 ft^2 in size, and is currently occupied by a computer/security firm. The building is occupied on work days from 8 AM to 5 PM by approximately 45 people. Building 774 was built in 1959, but underwent major renovations in 2000. New windows and doors were installed along with 36 new air handlers including new air ducts in ceilings and new cooling towers. The building's foundation is an 8-inch thick concrete slab with no basement. The floors are mostly carpeted except for the bathrooms, janitor's closet, and boiler room where floor drains exist.

Building 776 is a one-story office building and is approximately 27,410 ft^2. The building is currently occupied by a software development firm. The building is occupied on work days from 7 AM to 6 PM by approximately 80 people. Building 776 was built in 1959, but underwent major renovations in 2002. New windows, which do not open, and doors were installed, the interior was refinished, and most floors were covered with new carpeting. Heat and outdoor air are provided through 43 heat pumps. The building was constructed on a 3.5 to 6-inch thick concrete slab, with no basement. Several floor drains exist in bathrooms and historically one crack was observed in the concrete floor near the southeastern entrance door.

1.7 Geology and Hydrogeology

1.7.1 Buildings 785 and 786

The immediate area surrounding Buildings 785 and 786 is relatively flat, mostly covered with reinforced concrete, and has little or no elevation difference. As indicated on **Figure 2,** the groundwater flow direction is to the northeast towards Six Mile Creek.

The aquifer is comprised of silty sands with an average thickness extending from 60 feet (ft) below ground surface (bgs) to 120 ft bgs. Due to a relatively flat gradient, average groundwater velocities at this site are slow and have been estimated at approximately 10 ft per year. Higher velocities may exist in discontinuous seams of coarse sand and gravel. Contamination is not found in the bedrock.

1.7.2 Buildings 774 and 776

Buildings 774 and 776 are located on SAC hill which is an elevated area in the southeast section of the former Griffiss AFB, overlooking the Aprons. The immediate area around the buildings is flat with little or no elevation difference. The area is covered with grass, asphalt parking lots, roads, and concrete walkways. Past investigations have indicated that the groundwater flow direction is to the south-southwest towards Landfill 6 as indicated on **Figure 3**.

The aquifer is comprised of silty sands with an average thickness extending from 60 ft bgs to 120 ft bgs. Average groundwater velocities have been estimated at approximately 10 ft per year. Higher velocities may exist in discontinuous seams of coarse sand and gravel. Contamination is not found in the bedrock. Groundwater studies at the nearby Landfill 6 TCE Site found relatively aerobic conditions and low dissolved organic carbon concentrations. The general absence of cis-1,2-dichloroethene (DCE) in the Building 775 plume confirms that reductive dechlorination is not occurring (Ecology and Environment Engineering, P.C. [EEEPC], February 2007).

1.8 Historical Monitoring Activities

1.8.1 Groundwater Contamination/Remedy

The following two subsections provide a brief summary of the groundwater contamination and remedies present at Sites SD052-01 Apron 2 Chlorinated Plume Site [Buildings 785 and 786] and SD052-02 Building 775 Site [Buildings 774 and 776].

1.8.1.1 SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

The SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) is associated with a TCE contaminated groundwater plume. A Remedial Investigation (RI) was performed in 2002 and 2003 in which two chlorinated plumes (referred to as the southern and northern plumes) were delineated at Apron 2 and the surroundings areas. The three primary contaminants present in the groundwater that exceed NYSDEC Class GA Groundwater Standards are TCE and its breakdown products cis-1,2-DCE and vinyl chloride (VC). The source of the contamination is assumed to be extended use of chlorinated solvents in the nose dock facilities (Buildings 782 through 786), with potential leaks due to floor drains, sewer lines, and oil water separators.

Petroleum contaminated plume(s) originating from the Apron 2 fueling system are present and commingle with the distill end of the chlorinated groundwater plume. This area is hydraulically downgradient of Buildings 785 and 786 and is approximately 1,900 ft east of the 785/786 SSVM system.

Significant reductive dechlorination is occurring and currently TCE exceedances are present only at the source (near Building 785). TCE is almost completely degraded to cis-1,2-DCE and VC downgradient of the source and it appears that no significant source of TCE remains at the site.

Annual performance monitoring of monitored natural attenuation of chlorinated groundwater contamination is ongoing at Apron 2. The Site CSS682, which was a petroleum release/spill site within the upgradient portion of Site SD052-01, received closure from the NYSDEC, Division of Environmental Remediation Region 6 in May 2018. The groundwater remedy for the SD052-01 (Apron 2 Chlorinated Plume Site Area of Concern [AOC]) has been implemented in accordance with the On-Base Groundwater AOC ROD which was signed by the USEPA in March 2009. The selected remedy is monitored natural attenuation using the ongoing physical, chemical, and natural biological processes that reduce the contaminants within the aquifer. As documented in the *Final Demonstration of Remedial Actions Operating Properly and Successfully Nosedocks/Apron 2 Former Griffiss Air Force Base, Rome, New York* (EEEPC, August 2013), natural attenuation is evident at the Apron 2 Chlorinated Plume Site. Currently, 12 monitoring wells and 3 surface water sampling locations are sampled annually. Target VOC concentrations remain stable or are decreasing at Apron 2. A detailed discussion of the SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) November 2017 groundwater data and trends is provided in the *Final 2017 Annual Performance Monitoring Report On-Base Groundwater Remediation Former Griffiss Air Force Base, Rome, New York* (Bhate, June 2018).

1.8.1.2 SD052-02 Building 775 Site (Buildings 774 and 776)

The SD052-02 Building 775 Site (Buildings 774 and 776) is associated with a TCE contaminated groundwater plume. The Building 775 Site plume is located downgradient and south of former maintenance facilities in Buildings 774 and 776 and former fuel pump house Building 775. Solvent use in Building 774 is thought to be a primary source of contamination. It was originally thought that Building 775 (Pumphouse 3) was the origin of a TCE plume at the Building 775 on-base groundwater site, but during the RI and Supplemental Investigation (SI), it was determined that the actual source of contamination was the degreasing room/vat in Building 774. This degreasing system used a monorail to carry equipment to the degreasing vat for solvent cleaning when the building was used as an armament and electronics shop. Solvent use was widespread in these facilities in the 1950s, 1960s, and early 1970s.

Historically, the primary contaminant exceeding New York State (NYS) Class GA Groundwater Standards is TCE with minor detections of 1,1,1-trichloroethane (TCA) and tetrachloroethene (PCE). The contaminated groundwater is assumed to be the source of the contaminated soil vapors.

The groundwater remedy for the SD052-02 (Building 775 Site AOC) has been implemented in accordance with the On-Base Groundwater AOC ROD which was signed by the USAF and USEPA in March 2009 (Air Force Real Property Agency [AFRPA], April 2009). The selected remedy is a groundwater extraction system with discharge to an off-site treatment facility. The groundwater extraction system is designed to contain the contaminated plume (> 50 micrograms per liter [µg/L]) and extract the contaminants from the aquifer. Since start-up of the groundwater

extraction and discharge system in December 2008, TCE decreased significantly. In 2016, the groundwater extraction system was turned off as all detections of TCE were below 50 µg/L). Per the ROD, the plume outside of the extraction system influence is anticipated to attenuate naturally to achieve groundwater standards.

A detailed discussion of the SD052-02 Building 775 Site (Buildings 774 and 776) November 2017 groundwater data and trends is provided in the *Final 2017 Annual Performance Monitoring Report On-Base Groundwater Remediation Former Griffiss Air Force Base, Rome, New York* (Bhate, June 2018).

1.8.2 SVI Investigation

The SD052-SVI soil vapor analytical results presented in Sections 1.8.2.1 and 1.8.2.2 below were obtained from the Final ROD (AFCEC, September 2016) and the *Final Quarterly Operations and Maintenance Report SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) Sub-Slab Vapor Mitigation Systems (2nd Quarter/Calendar Year 2016/April – June), Former Griffiss Air Force Base Rome, New York* (CAPE Environmental [CAPE]/FPM, July 2016).

1.8.2.1 SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

Between October 2006 and February 2007, an initial SVI survey was performed at Buildings 785 and 786. The results of the survey (see Tables 3 and 4 in **Attachment 1**) indicated that the sub-slab samples showed maximum TCE concentrations up to 11,000 µg/m^3 at 785SSV-1 (Building 785) and 81,000 µg/m^3 at 786SSV-1 (Building 786). These concentrations exceed the current TCE sub-slab vapor screening level for TCE of 99 µg/m^3. The indoor samples (785IA-1 and 785IA-2) showed no TCE detections in Building 785 and a low estimated detection of 0.43 J µg/m^3 in Building 786 which is below the current indoor air (industrial/commercial air) RSL for TCE of 3 µg/m^3 (USEPA, May 2018).During the 2006/2007 SVI survey, several other VOCs were reported in the sub-slab vapor and indoor air samples, but were either detected below screening levels, detected in the outdoor air sample, or not deemed to be a COC for this site. As part of the 2006/2007 SVI survey sampling procedures, site investigations and product inventories were performed. It was noted that several pallets which held drums of motor oil, paint cans, buckets, and pails were located inside the southwestern portion of Building 785. Furthermore, a forklift, compressed gas and propane cylinders, a container of motor oil, and a bucket of hydraulic oil were observed inside Building 786. During the 2006/2007 SVI survey, a hand-held microgram per cubic meter (µg/m^3)-RAE meter was used to measure total VOC concentrations at potential VOC ambient air sources, readings ranged from 0 to 2,800 µg/m^3. The highest concentration was detected in Building 785 near the pallets. Historically, the presence of these VOC containing, or petroleum based products during indoor air sampling may have promoted false positive results due to interference from facility operations.

A follow-up SVI investigation was conducted at Buildings 785 and 786 in April 2008 to confirm the results of the 2006 SVI survey. A low detection of TCE (0.655 µg/m^3 at 785IA-3) and several low petroleum detections were reported in the 2008 indoor air sample. Indoor air results for

Building 786 were comparable to the previous results and no TCE or daughter products were detected (see Table 4 in **Attachment 1**). All detected VOC results were detected at levels below current indoor air (industrial/commercial air) screening level RSLs (USEPA, May 2018). The indoor/outdoor sampling results for Buildings 785 and 786 are provided in the Final Quarterly Operations and Maintenance Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

The 2008 sub-slab vapor results (785SSV-1 and 785SSV-2) for Building 785 were one to two orders of magnitude lower than the previous 2006 results (see Table 3 in **Attachment 1**). However, there was one TCE exceedance that was reported for sampling location 785SSV-6 (2,200 µg/m^3) in 2008. In total, five TCE exceedances were reported at levels above the current sub-slab vapor screening level (99 µg/m^3) at sampling locations 785-SSV1, -SSV2,-SSV3, -SSV5, and -SSV6.

The 2008 sub-slab vapor results for Building 786 were lower but the same order of magnitude as the previous 2006 results (see Table 4 in **Attachment 1**). TCE concentrations ranged from 69 µg/m^3 at 786SSV-3 to 19,000 µg/m^3 at 786SSV-1 (previous concentration at 786SSV-1 was 81,000 µg/m^3). In total, five TCE exceedances above the current TCE sub-slab vapor screening level for TCE (99 µg/m^3) were reported at sampling locations 786-SSV1, -SSV2, -SSV4, -SSV5, and -SSV6. The sub-slab vapor sampling results for Buildings 785 and 786 are also provided in the Final Quarterly Operations and Maintenance Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

1.8.2.2 SD052-02 Building 775 Site (Buildings 774 and 776)

In September 2006, an SVI evaluation was conducted consisting of sub-slab vapor samples from Buildings 774 and 776. The results indicated that chloroform and TCE were present at concentrations above their respective screening levels. The 2006 screening level for sub-slab vapor was 409 µg/m^3 and 41 µg/m^3 in indoor air. The indoor air samples collected from both buildings indicated that these same contaminants were present but at levels below the screening values. An additional SVI survey was conducted at Buildings 774 and 776 between October 2006 and February 2007. The results of the sub-slab samples showed maximum TCE concentrations up to 1,700 µg/m^3 at 774SSV-1 (Building 774), and 3,000 µg/m^3 at 776SSV-1 (Building 776) (see Tables 1 and 2 in **Attachment 1**). These concentrations exceed the current sub-slab vapor screening level for TCE of 99 µg/m^3. The indoor samples showed TCE concentrations up to 3.4 µg/m^3 in Building 774 and 4.4 µg/m^3 in Building 776. The current indoor air (industrial/commercial air) RSL for TCE is 3 µg/m^3 (USEPA, May 2018).

After the initial SVI survey, a meeting was held between the USAF, USAF Institute for Operational Health, NYSDEC, NYSDOH, and the USEPA on December 13, 2007, to discuss the SVI survey findings. During this meeting, an agreement was reached that these buildings required additional investigation to confirm the 2006 survey results. It should be noted that in the meeting it was decided that chloroform has been determined not to be a COC (FPM, April 2008). A subsequent SVI investigation was performed in April/May 2008.

The indoor air TCE concentrations reported for Building 774 during the April 2008 sampling event were two orders of magnitude higher than those reported during the 2006 sampling event (3.4

µg/m^3) (see Table 1 in **Attachment 1**). Concentrations detected at levels that exceed the current TCE indoor air screening criteria 3 µg/m^3 (USEPA, May 2018) in April 2008 ranged from 236 µg/m^3 (774IA-4) to 559 µg/m^3 (774IA-2). Further investigation revealed that, prior to this sampling event, building renovations were performed which included removal of old carpet glue using solvents. Indoor air results for Building 776 were comparable to the previous 2006 results and only the result from 776IA-1 slightly exceeded the current indoor air screening criteria of 3 µg/m^3 (see Table 2 in **Attachment 1**). Indoor and outdoor air samples were recollected from Building 774 in May 2008 due to the apparently skewed results due to carpet removal activities. The May 2008 results indicated that indoor air TCE concentrations were comparable to the 2006 results. The indoor/outdoor sampling results for Buildings 774 and 776 are provided in the Final Quarterly Operations and Maintenance Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

The 2008 sub-slab TCE vapor results for Building 774 were within the same order of magnitude as those reported in 2006 with two exceedances above the current sub-slab vapor screening level for TCE (99 µg/m^3) of 490 µg/m^3 and 590 µg/m^3 at locations 774SSV-1 and 774SSV-2, respectively (see Table 1 in **Attachment 1**). The sub-slab vapor concentrations reported in Building 776 were lower than those reported in 2006 (see Table 2 in **Attachment 1**). In total, three TCE exceedances were reported above the current sub-slab vapor screening level of 99 µg/m^3 at sampling locations 776-SSV2,-SSV3, and –SSV4. The sub-slab vapor sampling results for Buildings 774 and 776 are also provided in the Final Quarterly Operations and Maintenance Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

1.9 Interim Response Action

Based on the presence of elevated TCE concentrations in sub-slab vapors and on the findings of the FS, the preferred alternative was implemented as an Interim Remedial Action (IRA) at Buildings 774, 776, 785, and 786 to assess the effectiveness of horizontal sub-slab depressurization (FPM, February 2010).

1.9.1 SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

The SSVM horizontal sub-slab depressurization system was installed at the SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) in winter and spring 2011. The system is shown on **Figure 4**.

1.9.1.1 SSVM System Components

The Building 785 and 786 system is composed of two horizontal wells. The horizontal well for Building 786 (786SSVM-1) was constructed of a 160 ft screen at a depth of 10 ft bgs. The horizontal well for Building 785 (785SSVM-1) was constructed of a 140 ft screen at a depth of 8 ft bgs. The horizontal extraction wells (785SSVM-1 and 786SSVM-1) are connected in line with a regenerative blower, including all blower components. The blower capacity is capable of achieving a maximum flow rate of 420 standard cubic feet per minute (scfm) and a maximum vacuum of 110 inches water gauge (w.g.). The regenerative blower is connected in line with a vapor-after-treatment system comprising of two air purification canisters each containing 140

pounds of granular activated carbon (GAC). The GAC is used to remove chlorinated solvents in the vapor phase. The calculated life span of GAC is approximately 4 months based on concentrations encountered during the pilot study from October 2010 to January 2011 at Building 785 and Building 786.

1.9.1.2 Vapor Monitoring Points

The vapor monitoring points (VMPs) were strategically placed to monitor the effective radius of influence (ROI) and vapor transport and mitigation. At Building 786, 786VMP-1, -2 and -3 are respectively 15 ft, 30 ft, and 45 ft off the 786SSVM-1 well axis. At Building 785, 785VMP-2, -4, and -5 are respectively 15 ft, 30 ft, and 60 ft off the well axis. The VMPs for both horizontal wells contain three intervals of depth, a shallow (2 to 2.5 ft bgs), a medium (5 to 5.5 ft bgs), and a deep (10 to 10.5 ft bgs).

1.9.1.3 Historical Operation and Maintenance (2011 – 2016)

The Building 785 and 786 SSVM system has operated since May 2011. System O&M includes weekly system component readings (system temperature, flow, vacuum, and motor status), semi-annual VMP vacuum measurements, and GAC disposal and replacement every 4 months. Indoor and outdoor air sampling, sub-slab vapor sampling, and influent sampling are conducted semi-annually during the heating and cooling months (CAPE/FPM, March 2015). The system was shut down in August 2013 and re-started in September 2014 due to an electrical supply problem caused by renovations to Buildings 785 and 786. Prior to this shut down, semi-annual monitoring results from 2011 to 2014 show a decrease in TCE sub-slab vapor and indoor air concentrations. Semi-annual monitoring continued during the system shutdown to evaluate the rebound potential. No indoor air TCE concentrations were detected at levels above the current industrial/commercial USEPA RSL (3 µg/m^3) from 2011 to 2014. All historical sub-slab vapor, indoor air, and outdoor air sampling results are presented in Table 3-4 and influent air sampling results are presented in Table 3-5 of the Final Quarterly Operations and Maintenance Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016) and are included in **Attachment 2** of this report. **Figure 5** shows the slight decreasing trend for sub-slab TCE results at Buildings 785 and 786 since the start-up of the SSVM system (May 2011) through March 2017. The decreasing trend for sub-slab TCE was not observed during the March 2018 sampling event as the SSVM system has not been operational since August 31, 2017. All indoor and outdoor air concentrations were within an acceptable range and did not pose any unacceptable risk to building occupants.

1.9.2 SD052-02 Building 775 Site (Buildings 774 and 776)

A SSVM horizontal sub-slab depressurization system was installed at the SD052-02 Building 775 Site (Buildings 774 and 776) in Spring 2011. The system is composed of four horizontal wells as shown on **Figure 6**.

1.9.2.1 SSVM System Components

The SSVM system is composed of three horizontal wells for Building 774 (774SSVM-1, -2, and - 3) and one horizontal well for Building 776 (776SSVM-1). The horizontal wells are illustrated on **Figure 6**. The depths of the horizontal wells range from 6 ft to 8 ft bgs with screen lengths ranging from 20 ft to 180 ft long. The horizontal extraction wells are connected in line with a regenerative blower capable of achieving a maximum flow rate of 600 scfm and a maximum vacuum of 106 inches of w.g. The regenerative blower is connected in line with a vapor-after-treatment system comprising of two air purification canisters each containing GAC. The GAC is used to remove chlorinated solvents in the vapor phase. The calculated life span of GAC is approximately 4 months. Note: The design extraction rate was developed from the SSVM during the pilot study. The treatment system consists of one 140-pound activated carbon drum. The lifespan of the drum is estimated to be 2,208 days based on concentrations determined during the pilot study at Building 774 and Building 776 as described in *Draft Work Plan Sub-Slab Vapor Mitigation Design* (FPM, February 2011). The 4-month carbon change out was presumably adopted for consistency with the carbon change timeframe at Building 785 and Building 786.

1.9.2.2 Vapor Monitoring Points

The sub-slab VMPs were strategically placed to monitor effective ROI and vapor transport and mitigation. In Building 774, three sub-slab VMPs were installed; 774VMP-1, -2, and -3 with one interval screened less than a foot beneath the sub-slab. Building 776 also has three sub-slab VMPs: 776VMP-1, -2, and -3. The VMPs are located from 25 ft to 45 ft off axis of the horizontal wells. All VMPs are illustrated on **Figure 6**.

1.9.2.3 Historical Operations and Maintenance (2011 - 2016)

The Building 774 and 776 SSVM system has operated since June 2011. System O&M includes weekly system component readings (system temperature, flow, vacuum, and motor status), semi-annual VMP vacuum measurements, and GAC disposal and replacement every 4 months. Indoor and outdoor air sampling, sub-slab vapor sampling, and influent sampling are conducted semi-annually during the heating and cooling months (CAPE/FPM, July 2016). Semi-annual monitoring results from 2011 to 2014 show a decrease in TCE sub-slab vapor and indoor air concentrations. TCE concentrations have decreased from 410 µg/m^3 to non-detect at 774VMP-1; 84 µg/m^3 to non-detect at 774VMP-2; 11 µg/m^3 to 9.2 µg/m^3 at 774VMP-3; 38 µg/m^3 to 0.71 J µg/m^3 at 776VMP-1; 3.8 µg/m^3 to 1.1 J µg/m^3 at 776VMP-2; and 10 µg/m^3 to 3.5 µg/m^3 at 776VMP-3.

From 2011 through 2014, no TCE was detected in indoor air samples at levels above the current industrial/commercial USEPA RSL for indoor air of 3 µg/m^3. The sub-slab vapor, indoor air, and outdoor air sampling results are presented in Table 3-2, and influent air sampling results are presented in Table 3-3 of the Final Quarterly Operations and Maintenance Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016) which are provided in **Attachment 2** of this report. **Figure 7** shows the decreasing trend for sub-slab TCE results at Buildings 774 and 776 since the start-up of the SSVM system. Indoor and outdoor air

concentrations were within an acceptable range and did not pose any unacceptable risk to building occupants.

1.10 SVI Remedial Action Objectives

To address the potential for SVI at unacceptable risk levels, a Remedial Action Objective (RAO) was established for SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786). The established RAO is to prevent individual human exposure to soil-gas vapor levels within buildings at unacceptable levels represented by an excess cancer risk greater than 1×10^{-6} and also represented by a potential non-cancer risk for a hazard index greater than one (1.0). Current USEPA RSLs represent the RAOs for evaluating the protectiveness of the IRA. It should be noted that the RSLs are Preliminary Remediation Goals since RSLs are not cleanup levels. Future exit strategy decisions, provided in Section 12 of the *Final Record of Decision Soil Vapor Intrusion at SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) Former Griffiss Air Force Base, Rome, New York* (AFCEC, September 2016) will rely on applicable NYSDOH criteria, pertinent USEPA RSLs, or a site-specific human health risk assessment prepared in accordance with USEPA guidelines.

1.11 Land Use Controls/Institutional Controls

Sites SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) are industrial/commercial properties with Land Use Controls (LUCs) and Institutional Controls (ICs) in place. LUCs/ICs in the form of land use restrictions to prevent residential use, soil/groundwater intrusive work restrictions, and groundwater consumption restrictions were implemented in the *Final Record of Decision for the On-base Groundwater AOCs (SD-052) at the Former Griffiss Air Force Base, Rome New York* (AFRPA, April 2009). The restrictions related to SVI are in place to prevent compromising the slabs of Buildings 774, 776, 785, and 786 without prior written approval from the USEPA, NYSDEC, and the USAF. The recent *Final 2017 Land Use Controls/Intuitional Controls Site Inspection Report Former Griffiss AFB Rome, New York* (Bhate, February 2018) verified that the implemented remedies and restrictions are protective of human health and the environment at the SVI sites.

2 SUB-SLAB VAPOR MITIGATION SYSTEM O&M

2.1 Methods

A total of 12 sub-slab vapor monitoring points, 4 indoor air, 2 outdoor air, and 1 system influent sample were collected during the March 2018 sampling event at the two SD052-SVI sites. As the SD052-01 (Building 785/786) SSVM system was not operational, an influent sample was not collected. The SD052-02 (Building 774 and 776) SSVM system was turned off prior to commencement of sub-slab, indoor, and outdoor air sampling. Air samples were collected using pre-cleaned, batch-certified 6-liter summa canisters. SSVM system influent samples were collected as grab samples. Sub-slab soil gas, indoor, and outdoor air samples were collected in summa canisters with laboratory installed vacuum gauges and 8-hour flow controllers. **Table 1** presents a list of sampling locations, sample types, and specific sample collection dates for each. Field forms are included in **Appendix B.** Sampling was performed in accordance with the NYSDEC approved *Final 2016 Update Uniform Federal Policy* [UFP]-*Quality Assurance Project Plan* [QAPP] *for Long Term Management, Former Griffiss Air Force Base, Rome New York* (Bhate, November 2016).

Air samples were sent under chain of custody to TestAmerica's Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP) certified laboratory in Sacramento, California for VOC analysis via Method TO-15 (sub-slab, outdoor, and influent air samples) and Method TO-15 Selected Ion Monitoring (SIM) (indoor air samples only). It is important to note that the SIM method has lower detection limits and fewer analytes. Laboratory data packages are included in **Appendix C** and data validation reports are included in **Appendix D**. Data is entered into the Environmental Resources Program Information Management System (ERPIMS) on an annual basis, pending AFCEC review.

2.1.1 Sub-Slab Soil Gas Sampling

A total of 12 sub-slab VMPs within Buildings 785 (785VMP-2, -4 and -5), 786 (786VMP-1, -2, and -3), 774 (774VMP-1, -2, and -3), and 776 (776VMP-1, -2 and -3) were sampled during the 3rd quarter 2018 (**Figures 2 and 3**). Prior to sub-slab soil gas sample collection, the VMP was purged at a rate not exceeding 200 milliliters per minute (mL/min). The total volume purged prior to initiating sample collection was equal to three volumes of air present in the tubing and the VMP. Helium gas tracer testing was conducted pre- and post-sample collection at 2 VMPs sampled during the March 2018 sampling event. A Dielectric Technologies® Model MGD-2002 multi-gas leak locator meter was used to monitor helium concentrations during tracer gas testing.

At the start and end of sampling, a vacuum gauge reading from each summa canister was recorded. The 6-liter summa canisters were connected to the VMP sample ports via Teflon lined polyethylene tubing. Sample flow rates were less than 200 mL/min and sampling continued until a complete 8-hour sample had been collected. After the samples were collected, the valve on the summa canister was closed and the safety cap installed.

Locations 785VMP-2 and 776VMP-2 as indicated in **Table 1** included field duplicate samples used to validate laboratory analytical data. Air sample collection forms are included in **Appendix B.** Chain-of-custody forms are included with the laboratory analytical report in **Appendix C**. The Data Validation Report is provided as **Appendix D.**

2.1.2 Indoor Air Sampling

Buildings 785, 786, 774, and 776 each had one indoor air sample (785IA-1, 786IA-1, 774IA-1, and 776IA-1) collected during the March 2018 sampling event (**Figures 2 and 3**). An attempt was made to deploy the summa canisters in areas not subject to disturbances and which would not interfere with the occupants' normal activities. Additionally, an effort was made to mimic the locations of previous indoor air sampling events within each building. Indoor air summa canisters were labeled with a unique sample designation number. Summa canister vacuum was measured using an integrated vacuum gauge immediately prior to deployment and recorded on the applicable field form. The 8-hour flow controllers were installed by the laboratory on each summa canister. Summa canisters were opened fully at the beginning of sample collection period, and the start time was recorded. Other data recorded included: outdoor temperature, barometric pressure, and ventilation conditions. The summa canister valve was closed fully at the end of the sample collection period, and the time recorded. Any evidence of canister disturbance during the sample collection period was also recorded. The canister vacuum was measured and recorded immediately after retrieval at the end of the sampling period. Following sample collection, the valve on the summa canister was closed, and the safety cap installed.

2.1.3 Outdoor Air Sampling

One representative outdoor air sample was collected from the Building 785/786 Site (785OA-1) and one sample was collected from the Building 774/776 Site (776OA-1) during the March 2018 sampling event (**Figures 2 and 3**). Outdoor air samples were collected in the same manner as the indoor air samples.

2.1.4 SSVM Influent Air Sampling

As the Building 785/786 SSVM system was not operational in March 2018, an influent air sample was only collected from the Building 774/776 SSVM system (774776-INF). Influent air (grab) samples were collected at a port installed prior to the activated carbon treatment drums.

2.2 Sampling Results

2.2.1 Buildings 785 and 786

Sub-slab vapor, indoor, and outdoor air sampling occurred at Buildings 785 and 786 on March 21, 2018. Sampling results are presented in **Table 2**. The highest sub-slab TCE concentration in Building 785 was 13 µg/m^3 at location 785VMP-2 and the highest sub-slab TCE concentration in Building 786 was 200 µg/m^3 at location 786VMP-2. It is important to note that the Building 785/786 SSVM system was off line prior to this sampling event. With the exception of 786VMP-2, the TCE sub-slab results were detected at levels below the current USEPA

Industrial/commercial sub-slab vapor screening level of 99 µg/m^3. The TCE indoor air concentrations in Building 785 and Building 786 (0.029 µg/m^3 and 0.035 J µg/m^3, respectively) were below the USEPA Industrial/commercial Indoor Air Screening Value of 3.0 µg/m^3 (USEPA, May 2018). Only one outdoor air sample was collected between Buildings 785 and 786 due to the close proximity of the two buildings. TCE was detected in the outdoor air sample at 2.5 J [estimated concentration] µg/m^3 during the March 2018 sampling event which is below the Indoor Air Screening Value of 3.0 µg/m^3 (USEPA, May 2018).

With the exception of the sub-slab sample collected at 786VMP-2, all sub-slab and outdoor air concentrations for TCE were within an acceptable range and did not pose any unacceptable risk to building occupants. The concentration of TCE associated with a cancer risk of 1 x 10^{-6} is 3 µg/m^3 and for 1 x 10^{-4} is 300 µg/m^3; however consideration of non-cancer toxicity will limit the maximum concentration of 8.8 µg/m^3 to avoid exceeding the goal of protection of a Hazard Quotient equal to 1.0. All indoor air sample results indicated TCE concentrations were below the USEPA industrial/commercial screening level for indoor air and within the acceptable range associated with a cancer risk of 1 x 10^{-6} (3 µg/m^3) to 10^{-4} (300 µg/m^3).

Table 3 compares the indoor air and sub-slab March 2018 sampling results to the USEPA industrial/commercial TCE cancer risk scenario. Under the USEPA industrial/commercial TCE cancer risk scenario to achieve "no action" criteria, indoor air needs to be below the industrial/commercial air RSL for TCE of 3 µg/m^3 (USEPA, May 2018) and corresponding sub-slab results need to be below 99 µg/m^3. Based on the USEPA soil vapor/indoor air TCE cancer matrix (**Table 3**) the sample collected from 786VMP-2 falls under the monitor category. All of the remaining samples from Buildings 785 and 786 fall under the no action category.

Table 4 compares the calculated hazard index (HI) using the USEPA Vapor Intrusion Screening Level calculator for the indoor air and sub-slab March 2018 sampling results to the USEPA industrial/commercial TCE noncancer hazard scenario. Under the USEPA industrial/commercial TCE noncancer hazard scenario, to achieve no action criteria requires the indoor air and sub-slab hazard index be below 1.0. Based on the USEPA soil vapor/indoor air TCE noncancer matrix (**Table 4**) the samples collected from 786VMP-1 and 786VMP-2 fall under the monitor category. All of the remaining TCE concentrations were below the noncancer HI of 1.0 (8.8 µg/m^3) for indoor air and below the HI of 1.0 (293 µg/m^3) for sub-slab.

Table 6 compares the indoor air and sub-slab March 2018 sampling results to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) establishes two no further action scenarios. The first requires indoor air samples to be below 0.2 µg/m^3 with a corresponding sub-slab concentration of less than 60 µg/m^3. The second option for achieving the no further action criteria requires indoor air samples to be below 1.0 µg/m^3 with a corresponding sub-slab concentration of less than 6 µg/m^3. The comparison indicates achievement of no further action criteria for 4 of the indoor air and sub-slab samples at Buildings 785 and 786. However, two sub slab locations (786VMP-1 and 786VMP-2) had concentrations greater than 60 µg/m^3 which fall under mitigate category.

Figure 5 shows the sub-slab TCE vapor trend chart in both Buildings 785 and 786. In general, the data indicates a decreasing trend in TCE vapor concentration after the initial start-up of the system in May 2011 through the March 2017 air sampling event. However, the Building 785/786 SSVM system was not operational during the March 2018 sampling event. As a result, TCE sub-slab vapor concentrations significantly increased at 786VMP-1, -2, and -3. The indoor and outdoor vapor trend chart in both Buildings 785 and 786 is illustrated on **Figure 8**. As previously discussed, the Building 785/786 SSVM system was not operational therefore an influent sample was not collected.

In addition, chloroform was detected at a concentration of 27 µg/m^3 in the sub-slab vapor sample collected at 786VMP-2 which is above the USEPA industrial/commercial Indoor Air Screening Value of 17.49 µg/m^3 (USEPA, May 2018). This detection of chloroform produced a HI of 7.9 E-03. However, the other two Building 786 sub-slab locations (786VMP-1 and -3) only had low estimated concentrations of chloroform (0.85 J µg/m^3 and 0.49 J µg/m^3 respectively) which are below the Indoor Air Screening Value. Due to the isolated exceedance at 786VMP-2, Bhate is not recommending any additional action other than monitoring at this time.

Benzene was detected in the Building 785 indoor sample (785IA-1) at 2.6 µg/m^3 during the March 2017 event (**Table 2**). This detection was above the Indoor Air Screening Value of 1.6 µg/m^3 (USEPA, May 2018). However, benzene was detected below the Indoor Air Screening Value at 0.52 µg/m^3 during the March 2018 event. The March 2018 detection of benzene is comparable to historical Building 785 indoor air benzene concentrations since 2011 (see Table 3-4 in **Attachment 2**).

2.2.2 Buildings 774 and 776

Sub-slab vapor, indoor, and outdoor air sampling occurred at Buildings 774 and 776 on March 21, 2018. Sampling results are presented in **Table 5**. The highest sub-slab TCE concentration in Building 774 was 0.66 J µg/m^3 at location 774VMP-2 and the highest sub-slab TCE concentration in Building 776 was 27 µg/m^3 at location 776VMP-3. All of the TCE sub-slab vapor results were detected at levels below the current sub-slab vapor screening level of 99 µg/m^3. TCE was detected in the indoor air at Building 774 (0.11 µg/m^3) and Building 776 (0.13 µg/m^3) at levels below the Indoor Screening Value of 3.0 µg/m^3 (USEPA, May 2018). Benzene was detected at 0.44 µg/m^3 in 774IA-1 during the March 2018 event (**Table 5**). This detection is below the Indoor Screening Value of 1.6 µg/m^3 (USEPA, May 2018). The preceding benzene value at 774IA-1 during March 2017 was 1.7 µg/m^3 which suggests that the March 2017 detection was an anomaly from facility operations. Benzene was detected in sub-slab soil vapor samples during the December 2016, March 2017, and March 2018 sampling events; however, at one to two orders of magnitude less than the USEPA industrial/commercial sub-slab screening criteria of 52.8 µg/m^3 (USEPA, May 2018). The lack of significant sub-slab detections from 2011 to present suggests that the source of the March 2017 indoor air benzene detection was somewhere other than the subsurface.

Only one outdoor air sample (776OA-1) was collected between Buildings 774 and 776 due to the close proximity of the buildings. TCE was not detected in the outdoor air sample. **Figure 7** shows

the sub-slab TCE vapor trend chart in both Buildings 774 and 776. The data indicates a significant decrease in TCE vapor after the initial start-up of the system in June 2011 through the March 2017 air sampling event. However, the TCE value at 776VMP-3 was 27 µg/m^3 in March 2018. As shown on **Figure 7**, there has been minor fluctuations in the Building 774 and 776 sub-slab TCE vapor results. The indoor and outdoor vapor trend chart in both Buildings 774 and 776 is illustrated on **Figure 8**.

Based on the March 2018 sampling results, all sub-slab and outdoor air concentrations for TCE were within an acceptable range and did not pose any unacceptable risk to building occupants. The concentration of TCE associated with a cancer risk of 1 x 10^{-6} is 3 µg/m^3 and for 1 x 10^{-4} is 300 µg/m^3; however consideration of non-cancer toxicity will limit the maximum concentration of 8.8 µg/m^3 to avoid exceeding the goal of protection of a Hazard Quotient equal to 1.0. Both indoor air sample results indicated TCE concentrations were below the USEPA industrial/commercial screening level for indoor air and within the acceptable range associated with a cancer risk of 1 x 10^{-6} (3 µg/m^3) to 10^{-4} (300 µg/m^3). The indoor air TCE concentrations were 0.11 µg/m^3 (774IA-1) and 0.13 (776IA-1) at Buildings 774 and 776.

Table 3 compares the indoor air and sub-slab March 2018 sampling results to the USEPA industrial/commercial TCE cancer risk scenario. Under the USEPA industrial/commercial TCE cancer risk scenario, to achieve no action criteria, indoor air needs to be below the industrial/commercial air RSL for TCE of 3 µg/m^3 (USEPA, May 2018) and corresponding sub-slab results need to be below 99 µg/m^3, which is based on 33 times the Indoor Air Screening Level (USEPA, May 2018). The comparison indicates achievement of no action criteria under the TCE cancer risk scenario.

Table 4 compares the calculated HI using USEPA Vapor Intrusion Screening Level calculator for the indoor air and sub-slab March 2018 sampling results to the USEPA industrial/commercial TCE noncancer hazard scenario. Under the USEPA industrial/commercial TCE noncancer hazard scenario, to achieve no action criteria requires the indoor air and sub-slab HI be below 1.0. All TCE HI were below the noncancer HI of 1.0 (8.8 µg/m^3) for indoor air and below an HI of 1.0 (293 µg/m^3) for sub-slab. The comparison indicates achievement of no action criteria under the TCE noncancer hazard scenario.

Table 6 compares the indoor air and sub-slab March 2018 sampling results to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) establishes two no further action scenarios. The first requires indoor air samples to be below 0.2 (µg/m^3) with a corresponding sub-slab concentration of less than 60 µg/m^3. The second option for achieving the no further action criteria requires indoor air samples to be below 1.0 µg/m^3 with a corresponding sub-slab concentration of less than 6 µg/m^3. The comparison indicates achievement of no further action criteria for the indoor air and sub-slab samples at Buildings 774 and 776.

Influent sampling occurred on March 9, 2018, prior to sub-slab vapor sampling to determine effective soil vapor extraction. The influent sampling location was installed on the SSVM system's exhaust stack before carbon treatment. The influent concentration for TCE during the March

2018 event at Buildings 774 and 776 was 57 µg/m^3. **Figure 9** illustrates the SD052-SVI influent concentrations for Buildings 774/776. An effluent sample was not collected.

2.3 SSVM System O&M

Routine SSVM system O&M activities at the former Griffiss AFB include verifying the proper operation of the various remedial systems at the SD052-SVI sites. SSVM system O&M forms from weekly visits completed in the second, third, and fourth quarters of 2017 and the first quarter of 2018 are included in **Appendix E**. Specific repairs performed at the SD052-01 (Building 785 and 786) and SD052-02 (Building 774 and 776) SSVM systems are discussed in the subsections below.

2.3.1 SD052-01 (Building 785 and 786) SSVM System

During the April 2017 O&M visits the knockout (KO) tank was drained three times and the heat exchange fan was cleaned of debris twice. In May 2017, the KO tank was drained of minimal water (less than 1/10th of a tank) and the heat exchange was re-leveled for stability/smoother operation. During the August 31, 2017, O&M visit the SSVM system was powered off and it was determined that the motor bearings in the blower needed repair. In addition, a 4 foot section of the 4-inch diameter discharge hose was replaced. The Building 785 and 786 SSVM system remained off line through the first quarter of 2018 pending replacement of the blower and magnetic switch.

2.3.2 SD052-02 (Building 774 and 776) SSVM System

During the O&M visits conducted from April 6th through July 14, 2017, the Building 774 and 776 SSVM system was operational and no water was observed in the KO tank. On July 21, 2017, the high KO tank alarm was off upon arrival and the alarm reset started the system. Upon restart the blower began making an abnormal high pitched sound and the SSVM system was powered off. During the August 1, 2017, O&M visit the system was turned on momentarily for readings. The system ran without issue for approximately 5 minutes and the motor noise (rubbing sound diagnosed as a bearing) in the blower returned and then the motor came to a stop. The system was left offline until October 13, 2017, when the blower was repaired. The SSVM system remained operational (with no water observed in the KO tank through the November 6, 2017, O&M visit. Upon arrival on November 29, 2017, the system was off due to the KO tank high level alarm, however no water was observed in the KO tank and the system was restarted without issue. Additionally, the system was off during the February and March 2018 O&M visits (due to the high level KO tank alarm) however no water was observed in the tank and the system was successfully restarted both times. On March 21, 2018, the Building 774 and 776 SSVM system was shut down for sub-slab, indoor, and outdoor air sampling.

3 RECOMMENDATIONS

In e-mails dated October 31, 2017, and March 14, 2018, the NYSDEC and USEPA approved the *Final Operations and Maintenance and Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site [Buildings 785 and 786] and SD052-02 Building 775 Site [Buildings 774 and 776] Sub-Slab Vapor Mitigation Systems, Former Griffiss AFB, Rome, New York* (Bhate, January 2018). This report recommended converting the active SSVM systems (at both SVI sites) to passive systems. However, as previously discussed in Section 2.3.1, the Site SD052-01 (Buildings 785 and 786) SSVM system has not been operational since August 31, 2017. As a result, the TCE sub-slab vapor concentrations detected at locations 786VMP-1 and -2 in June 2017 were elevated. Based on the USEPA and NYSDOH Soil Vapor/Indoor Air Matrices (see **Tables 3, 4,** and **6**) additional monitoring and/or mitigation is required. It is important to note that the SD052-01 SSVM blower was repaired and that the system returned to operation on June 13, 2018. Therefore, the Building 785/786 SSVM system will remain operational and future air sampling is recommended. The next round of sub-slab vapor, indoor, and outdoor air data (October/November 2018) will be evaluated to determine if the SSVM system will remain active or if the system can be converted into a passive system in accordance with the Final ROD. If the laboratory results for the SSVM system influent indicate that the sub-slab soil gas concentrations are below the NYSDOH "no further action" screening criteria and/or the EPA industrial use RSLs for COCs, a regulatory request to convert the active SSVM system into a passive system will be made by the Air Force.

The March 2018 sub-slab vapor, indoor, and outdoor air concentrations for Site SD052-02 (Buildings 774 and 775) remained below applicable screening levels. Based on the USEPA and NYSDOH Soil Vapor/Indoor Air Matrices (see **Tables 3, 4,** and **6**) this site requires no action. Therefore, in accordance with the Final ROD, converting the Building 774 and 775 SSVM system into a passive system is recommended. As a result, the SD052-02 SSVM system was converted to a passive system (equipped with two wind-powered exhaust turbines) on June 13, 2018. Post conversion, the Building 774 and 775 sub-slab vapor, indoor, and outdoor air data will also be collected during the October/November 2018 timeframe to verify that the passive SSVM system is operating as intended (i.e., all air concentrations remain below applicable screening levels). As per the Final ROD, if sub-slab soil gas concentrations are reported higher than the industrial use screening criteria for two consecutive sampling events, the active SSVM system will be re-started.

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4 REFERENCES

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TABLES

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Table 1
List of Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Samples for SSVM Performance Monitoring (1st Quarter 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome NY
O&M Report Sub-Slab Vapor Mitigation Systems (1st Quarter 2018)

SD052-SVI Site	Sample Location	Sample ID	Sample Type	Sample Date	Notes
Buildings 785/786	785VMP-2	785VMP-2_0318	Sub-Slab	3/21/2018	8-hour sample duration, Collected 785VMP-2_0318-a as a duplicate
	785VMP-4	785VMP-4_0318	Sub-Slab	3/21/2018	8-hour sample duration
	785VMP-5	785VMP-5_0318	Sub-Slab	3/21/2018	8-hour sample duration
	785IA-1	785IA-1_0318	Indoor Air	3/21/2018	8-hour sample duration
	785OA-1	785OA-1_0318	Outdoor Air	3/21/2018	8-hour sample duration
	785786-INF	NA	NA	NA	Buildings 785/786 SSVM System was not operational
	786VMP-1	786VMP-1_0318	Sub-Slab	3/21/2018	8-hour sample duration
	786VMP-2	786VMP-2_0318	Sub-Slab	3/21/2018	8-hour sample duration
	786VMP-3	786VMP-3_0318	Sub-Slab	3/21/2018	8-hour sample duration
	786IA-1	786IA-1_0318	Indoor Air	3/21/2018	8-hour sample duration
Buildings 774/776	774VMP-1	774VMP-1_0318	Sub-Slab	3/21/2018	8-hour sample duration
	774-VMP-2	774-VMP-2_0318	Sub-Slab	3/21/2018	8-hour sample duration
	774-VMP-3	774-VMP-3_0318	Sub-Slab	3/21/2018	8-hour sample duration
	774IA-1	774IA-1_0318	Indoor Air	3/21/2018	8-hour sample duration
	774776-INF	774776-INF_0318	Influent	3/09/2018	Grab sample
	776VMP-1	776VMP-1_0318	Sub-Slab	3/21/2018	8-hour sample duration
	776VMP-2	776VMP-2_0318	Sub-Slab	3/21/2018	8-hour sample duration, Collected 776VMP-2_0318-a as a duplicate
	776VMP-3	776VMP-3_0318	Sub-Slab	3/21/2018	8-hour sample duration
	776IA-1	776IA-1_0318	Indoor Air	3/21/2018	8-hour sample duration
	776OA-1	776OA-1_0318	Outdoor Air	3/21/2018	8-hour sample duration

Notes:
ID = Identification
NA = Not Applicable
SSVM = Sub-Slab Vapor Mitigation

Table 2
Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m^3)	Sub-slab Vapor Screening Level ** (µg/m^3)	785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-4		785VMP-4		785VMP-4		785VMP-5		785VMP-5	
Field Sample ID			785VMP-2_1216		785VMP-2_1216-a		785VMP-2_0317		785VMP-2_0317-a		785VMP-2_0318		785VMP-2_0318-a		785VMP-4_1216		785VMP-4_0317		785VMP-4_0318		785VMP-5_1216		785VMP-5_0317	
Lab Sample ID			320-23968-13		320-23968-14		320-26740-1		320-26740-2		320-37345-11		320-37345-12		320-23968-15		320-26740-3		320-37345-13		320-23968-16		320-26740-4	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		12/1/2016		3/17/2017		3/17/2017		3/21/2018		3/21/2018		12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017	
Sample Depth (ft bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		1		1		1		1		1	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m^3)																								
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
1,1,2-Trichloro-1,2,2-trifluoroethane	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	**1.2**	J	3.1	U	3.1	U
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	**4**	**J**	**7.2**	**J**	**1.1**	J	**0.94**	J	**13**		**4.5**		**4.5**		2	U	**11**	
1,2-Dibromoethane (EDB)	0.02	0.66	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	**1.4**	**J**	**2.3**	**J**	2.0	U	2.0	U	**3.5**	**J**	**1.5**	**J**	**1.5**	J	2	U	**3.4**	**J**
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	**1.5**	**J**	**3.2**	**J**	2.4	U	2.4	U	2.4	U	**2**	**J**	2.4	U	2.4	U	**4.8**	
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
2-Butanone (MEK)	22,000	726,000	**3**		**3.1**		**5.5**		**7**		**2.7**		**2.6**		**1**	**J**	**4.9**		1.2	U	**1.5**	**J**	**5.7**	
2-Hexanone	130	4,290	**0.68**	**J**	**0.65**	**J**	**0.46**	**J**	0.82	U	**0.47**	J	**0.41**	J	0.82	U	**0.38**	**J**	0.82	U	0.82	U	0.82	U
4-Ethyltoluene	NA	NA	2	U	2	U	**1.8**	**J**	**2.4**	**J**	2.0	U	**1.1**	J	**4.2**		**1.9**	**J**	2.0	U	2	U	**2.4**	**J**
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	**2.3**	**J**	**4.6**	**J**	1.6	U	1.6	U	1.6	U	**1.9**	**J**	1.6	U	1.6	U	**3.4**	
Acetone	140,000	4,620,000	**8.8**	**J**	**8.7**	**J**	**23**		**31**		**13**		**11**	J	**55**		**32**		**25**		**45**		**30**	
Benzene	1.6	52.8	**0.32**	**J**	**0.28**	**J**	**3.3**		**3.5**		**0.71**	J	**0.49**	J	**1.3**		**2.8**		**0.56**	J	**3.7**		**1.9**	
Benzyl chloride	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U
Carbon disulfide	3,100	102,300	1.2	U	**0.54**	**J**	1.2	U	**0.49**	**J**	1.2	U	1.2	U	**0.63**	**J**	1.2	U	1.2	U	**0.54**	**J**	1.2	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	1.3	U	1.3	U	2.5	U	2.5	U	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Chloroethane	44,000	1,452,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Chloromethane	390	12,870	**0.79**	**J**	**0.76**	**J**	**1.5**	**J**	**1.9**		**2.5**		**2.2**		**0.49**	**J**	**1.3**	**J**	**1.1**	J	**0.48**	**J**	**1**	**J**
cis-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U

Table 2
Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m^3)	Sub-slab Vapor Screening Level ** (µg/m^3)	785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-4		785VMP-4		785VMP-4		785VMP-5		785VMP-5	
Field Sample ID			785VMP-2_1216		785VMP-2_1216-a		785VMP-2_0317		785VMP-2_0317-a		785VMP-2_0318		785VMP-2_0318-a		785VMP-4_1216		785VMP-4_0317		785VMP-4_0318		785VMP-5_1216		785VMP-5_0317	
Lab Sample ID			320-23968-13		320-23968-14		320-26740-1		320-26740-2		320-37345-11		320-37345-12		320-23968-15		320-26740-3		320-37345-13		320-23968-16		320-26740-4	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		12/1/2016		3/17/2017		3/17/2017		3/21/2018		3/21/2018		12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017	
Sample Depth (ft bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		1		1		1		1		1	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m^3)																								
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane	440	14,520	**2.2**	**J**	**2.2**	**J**	**2.8**	**J**	**2.7**	**J**	**1.7**	J	**1.8**	J	**2.1**	**J**	**3**	**J**	**2.0**	J	**2.1**	**J**	**2.8**	**J**
Ethylbenzene	4.9	161.7	0.87	U	0.87	U	**3.3**	**J**	**5.2**	**J**	**0.30**	J	**0.35**	J	**1.7**		**2.8**		**0.53**	J	**0.47**	**J**	**5.8**	
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Methylene Chloride	1,200	39,600	**0.33**	**J**	**0.26**	**J**	**0.5**	**J**	**0.47**	**J**	**0.45**	J	0.69	U	**0.35**	**J**	**0.49**	**J**	**0.47**	J	**0.32**	**J**	**0.5**	**J**
m-Xylene & p-Xylene	880***	NA	**0.65**	**J**	**0.64**	**J**	**12**	**J**	**18**	**J**	**1.0**	J	**0.91**	J	**5.6**		**9.8**		**1.5**	J	**0.87**	**J**	**21**	
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
o-Xylene	440	14,520	**0.26**	**J**	**0.28**	**J**	**4.7**	**J**	**7.7**	**J**	**0.48**	J	**0.45**	J	**3.5**		**4.4**		**0.94**	J	**0.34**	**J**	**9.9**	
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	**1.2**	**J**	0.85	U	0.85	U	**1.9**		0.85	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Toluene	22,000	726,000	**0.9**	**J**	**0.64**	**J**	**15**	**J**	**22**	**J**	**0.93**	J	**0.89**	J	**2.2**		**11**		**0.97**	J	**1.1**	**J**	**12**	
trans-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U
Trichloroethene	3	99	**1.1**	**J**	**1**	**J**	2.1	U	2.1	U	**13**		**13**		2.1	U	2.1	U	2.1	U	**2.1**	**J**	2.1	U
Trichlorofluoromethane	NA	NA	**1.2**	**J**	**1.2**	**J**	**1.5**	**J**	**1.5**	**J**	**1.5**	J	**1.5**	J	**1.2**	**J**	**1.7**	**J**	**1.6**	J	**1.3**	**J**	**1.5**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1.0	U	1.0	U	1	U	1	U	1.0	U	1	U	1	U

Notes:
VOC - Volatile Organic Compound
µg/m^3 = micrograms per cubic meter
ft - feet
bgs = below ground surface
ags = above ground surface
hr = hour
NA = Not applicable
USEPA = United States Environmental Protection Agency
RSL = Regional Screening Level
HQ = Hazard Quotient
DAF = Dilution Attenuation Factor
OSWER = Office of Solid Waste and Emergency Response
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
* = USEPA Industrial Air RSL, HQ = 1, May 2018
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = Screening level is the summation of m-xylene and p-xylene
Data Qualifiers
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection

Table 2
Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	785VMP-5		785IA-1		785IA-1		785IA-1		785OA-1		785OA-1		785OA-1		785786-INF		785786-INF		786VMP-1		786VMP-1		786VMP-1	
Field Sample ID			785VMP-5_0318		785IA-1_1216		785IA-1_0317		785IA-1_0318		785OA-1_1216		785OA-1_0317		785OA-1_0318		785786-INF_1116		785786-INF-0317		786VMP-1_1216		786VMP-1_0317		786VMP-1_0318	
Lab Sample ID			320-37345-14		320-23968-17		320-26740-5		320-37345-15		320-23968-18		320-26740-6		320-37345-20		320-23968-2		320-26536-1		320-23968-19		320-26844-1		320-37345-16	
Sample Location			Sub-Slab		Indoor		Indoor		Indoor		Outdoor		Outdoor		Outdoor		Influent		Influent		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			3/21/2018		12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017		3/21/2018		11/28/2016		3/10/2017		12/1/2016		3/21/2017		3/21/2018	
Sample Depth (ft bgs / ags)			1		5		5		5		2		2		2		NA		NA		2.5		2.5		2.5	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		Quick Grab		Quick Grab		8		8		8	
VOCs (µg/m³)																										
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	0.055	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	2.8	U	1.1	U	**2.1**	
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.5	U	1.4	U	1.4	U
1,1,2-Trichloro-1,2,2-trifluoroethane	22,000	726,000	3.1	U	3.1	U	3.1	U	NA		3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	7.8	U	3.1	U	3.1	U
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	NA		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	2.8	U	1.1	U	1.1	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	NA		0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.1	U	0.81	U	0.81	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	0.040	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	4.1	U	1.6	U	1.6	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	NA		8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	23	U	8.9	U	8.9	U
1,2,4-Trimethylbenzene	260	8,580	2.0	U	2	U	2	U	NA		2	U	2	U	2.0	U	2	U	**1.9**	**J**	**48**	**D**	**10**		**49**	
1,2-Dibromoethane (EDB)	0.02	0.66	1.5	U	1.5	U	1.5	U	NA		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	3.9	U	1.5	U	1.5	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	6.2	U	2.4	U	2.4	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	NA		0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.1	U	0.81	U	0.81	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	NA		3.7	U	3.7	U	3.7	U	3.7	U	**1.1**	**J**	**17**	**D**	3.7	U	3.7	U
1,3,5-Trimethylbenzene	260	8,580	2.0	U	2	U	2	U	NA		2	U	2	U	2.0	U	2	U	**2.2**	**J**	**22**	**D**	**3.7**	**J**	**29**	
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	NA		**0.81**	**J**	2.4	U	2.4	U	2.4	U	2.4	U	6.2	U	**3.7**	**J**	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	6.2	U	2.4	U	2.4	U
2-Butanone (MEK)	22,000	726,000	1.2	U	**0.83**	**J**	**0.88**	**J**	NA		**2**	**J**	1.2	U	**0.67**	J	**2.6**		**7.1**		3	U	**8.1**		**3.3**	
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	NA		0.82	U	0.82	U	0.82	U	**0.4**	**J**	0.82	U	2.1	U	**0.37**	**J**	0.82	U
4-Ethyltoluene	NA	NA	2.0	U	2	U	2	U	NA		2	U	2	U	2.0	U	2	U	2	U	**25**	**D**	**3.8**	**J**	**19**	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	1.6	U	NA		1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	4.2	U	**4.4**		**4.5**	
Acetone	140,000	4,620,000	**8.0**	J	**6.8**	**J**	**9.2**	**J**	NA		**18**		**3.6**	**J**	**5.7**	J	**13**		**25**		**6**	**J D**	**31**		**41**	
Benzene	1.6	52.8	**0.47**	J	**0.39**	**J**	**2.6**		**0.52**		**1.1**	**J**	**0.58**	**J**	**0.25**	J	**0.3**	**J**	**3.6**		**0.81**	**J D**	**1**	**J**	**3.8**	
Benzyl chloride	0.25	8.25	2.1	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.3	U	2.1	U	2.1	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	NA		1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.4	U	1.3	U	1.3	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.3	U	2.1	U	2.1	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	NA		3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8	U	3.1	U	3.1	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	NA		0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	2.3	U	0.88	U	**4.7**	
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	**0.51**	**J**	NA		1.2	U	1.2	U	1.2	U	**0.56**	**J**	**27**		**1.3**	**J D**	**0.73**	**J**	**4.1**	
Carbon tetrachloride	2	66	2.5	U	1.3	U	1.3	U	**0.34**		1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	3.2	U	2.5	U	2.5	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	NA		0.92	U	0.92	U	**0.32**	J	0.92	U	0.92	U	2.4	U	0.92	U	0.92	U
Chloroethane	44,000	1,452,000	2.1	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.4	U	2.1	U	2.1	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	NA		0.98	U	0.98	U	0.98	U	**1.4**	**J**	**0.82**	**J**	2.5	U	0.98	U	**0.85**	J
Chloromethane	390	12,870	**0.89**	J	**0.87**	**J**	**1.6**	**J**	NA		**0.95**	**J**	**1.5**	**J**	**1.6**	J	**0.41**	**J**	0.83	U	2.1	U	**1.4**	**J**	**2.2**	
cis-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.040	U	0.79	U	0.79	U	0.79	U	**0.81**	**J**	**0.61**	**J**	2	U	0.79	U	0.79	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	NA		1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	4.6	U	1.8	U	1.8	U

Table 2
Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	785VMP-5		785IA-1		785IA-1		785IA-1		785OA-1		785OA-1		785OA-1		785786-INF		785786-INF		786VMP-1		786VMP-1		786VMP-1	
Field Sample ID			785VMP-5_0318		785IA-1_1216		785IA-1_0317		785IA-1_0318		785OA-1_1216		785OA-1_0317		785OA-1_0318		785786-INF_1116		785786-INF-0317		786VMP-1_1216		786VMP-1_0317		786VMP-1_0318	
Lab Sample ID			320-37345-14		320-23968-17		320-26740-5		320-37345-15		320-23968-18		320-26740-6		320-37345-20		320-23968-2		320-26536-1		320-23968-19		320-26844-1		320-37345-16	
Sample Location			Sub-Slab		Indoor		Indoor		Indoor		Outdoor		Outdoor		Outdoor		Influent		Influent		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			3/21/2018		12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017		3/21/2018		11/28/2016		3/10/2017		12/1/2016		3/21/2017		3/21/2018	
Sample Depth (ft bgs / ags)			1		5		5		5		2		2		2		NA		NA		2.5		2.5		2.5	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		Quick Grab		Quick Grab		8		8		8	
VOCs (µg/m³)																										
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	NA		1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.4	U	1.7	U	1.7	U
Dichlorodifluoromethane	440	14,520	**1.6**	J	**2.1**	**J**	**2.4**	**J**	NA		**2.2**	**J**	**2.9**	**J**	**1.6**	J	**2.6**	**J**	**2.6**	**J**	**2.5**	**J D**	**2.6**	**J**	**1.7**	J
Ethylbenzene	4.9	161.7	**0.27**	J	0.87	U	**1.3**	**J**	NA		**0.98**	**J**	0.87	U	**2.1**		0.87	U	**4.1**		**150**	**D**	**4.4**		**32**	
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	NA		13	U	13	U	13	U	13	U	13	U	33	U	13	U	13	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.7	U	1.4	U	1.4	U
Methylene Chloride	1,200	39,600	**1.2**	J	**0.38**	**J**	**0.61**	**J**	**0.52**	**J**	**0.36**	**J**	**0.39**	**J**	**0.48**	J	**0.34**	**J**	0.69	U	1.8	U	**1.2**	**J**	**0.56**	J
m-Xylene & p-Xylene	880***	NA	**0.46**	J	0.87	U	**4.7**		NA		**3.8**		**0.58**	**J**	**0.97**	J	**0.85**	**J**	**10**		**650**	**D**	**15**		**160**	
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	NA		6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	16	U	6.3	U	**9.1**	J
o-Xylene	440	14,520	0.87	U	0.87	U	**1.7**		NA		**1.3**	**J**	0.87	U	**0.30**	J	**0.28**	**J**	**2.9**		**260**	**D**	**7.9**		**89**	
Styrene	4,400	145,200	**0.59**	J	0.85	U	0.85	U	NA		**0.31**	**J**	0.85	U	**1.1**	J	0.85	U	0.85	U	2.2	U	**1.3**	**J**	0.85	U
Tetrachloroethene	47	1,551	**0.35**	J	1.4	U	1.4	U	0.14	U	1.4	U	**0.4**	**J**	**18**		1.4	U	**0.6**	**J**	**1.3**	**J D**	1.4	U	**5.3**	
Toluene	22,000	726,000	**0.72**	J	**0.63**	**J**	**10**		NA		**6.1**		**0.54**	**J**	**0.44**	J	**1.4**	**J**	**43**		**240**	**D**	**14**		**8.2**	
trans-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	NA		0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	NA		0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.3	U	0.91	U	0.91	U
Trichloroethene	3	99	**0.97**	J	2.1	U	2.1	U	**0.029**	J	2.1	U	**1.4**	**J**	**2.5**	J	**0.97**	**J**	**11**		**12**	**D**	2.1	U	**89**	
Trichlorofluoromethane	NA	NA	**1.6**	J	**1.2**	**J**	**1.4**	**J**	NA		**1.3**	**J**	**1.4**	**J**	**1.4**	J	**1.5**	**J**	2.2	U	5.8	U	**1.4**	**J**	**2.1**	J
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	1.4	U	1.4	U	**1.1**	**J**	3.6	U	1.4	U	1.4	U
Vinyl chloride	2.8	92.4	1.0	U	1	U	1	U	0.026	U	1	U	1	U	1.0	U	1	U	1	U	2.6	U	**0.35**	**J**	1.0	U

Notes:
VOC - Volatile Organic Compound
µg/m³ = micrograms per cubic meter
ft - feet
bgs = below ground surface
ags = above ground surface
hr = hour
NA = Not applicable
USEPA = United States Environmental Protection Agency
RSL = Regional Screening Level
HQ = Hazard Quotient
DAF = Dilution Attenuation Factor
OSWER = Office of Solid Waste and Emergency Response
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
* = USEPA Industrial Air RSL, HQ = 1, May 2018
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5,
*** = Screening level is the summation of m-xylene and p-xylene
Data Qualifiers
J - Estimated: The analyte was positively identified; the quantitation is an est
U - Undetected at the Limit of Detection

Table 2
Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	786VMP-2		786VMP-2		786VMP-2		786VMP-3		786VMP-3		786VMP-3		786IA-1		786IA-1		786IA-1	
Field Sample ID			786VMP-2_1216		786VMP-2_0317		786VMP-2_0318		786VMP-3_1216		786VMP-3_0317		786VMP-3_0318		786IA-1_1216		786IA-1_0317		786IA-1_0318	
Lab Sample ID			320-23968-20		320-26740-7		320-37345-17		320-23968-21		320-26740-8		320-37345-18		320-23968-22		320-26740-9		320-37345-19	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017		3/21/2018	
Sample Depth (ft bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		5		5		5	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	**9.8**		1.1	U	1.1	U	**0.66**	J	1.1	U	1.1	U	0.055	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	NA	
1,1,2-Trichloro-1,2,2-trifluoroethane	22,000	726,000	3.1	U	3.1	U	**3.9**	J	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	NA	
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	NA	
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	NA	
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	0.040	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	NA	
1,2,4-Trimethylbenzene	260	8,580	**4.1**		**5.7**		**3.0**	J	**2.2**	**J**	**4.8**		2.0	U	**2**	**J**	**1.8**	**J**	NA	
1,2-Dibromoethane (EDB)	0.02	0.66	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	NA	
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	NA	
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	NA	
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	NA	
1,3,5-Trimethylbenzene	260	8,580	**1.6**	**J**	**2**	**J**	**1.1**	J	**0.75**	**J**	**1.7**	**J**	2.0	U	**0.77**	**J**	**0.85**	**J**	NA	
1,3-Dichlorobenzene	NA	NA	2.4	U	**2.3**	**J**	2.4	U	2.4	U	**2.3**	**J**	2.4	U	2.4	U	2.4	U	NA	
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	NA	
2-Butanone (MEK)	22,000	726,000	**5.4**		**11**		**1.6**	J	**2.9**		**6.1**		**7.0**		1.2	U	**0.76**	**J**	NA	
2-Hexanone	130	4,290	0.82	U	**0.5**	**J**	0.82	U	0.82	U	0.82	U	**1.6**		0.82	U	0.82	U	NA	
4-Ethyltoluene	NA	NA	**2.4**	**J**	**2.1**	**J**	**0.97**	J	2	U	**1.9**	**J**	2.0	U	**0.99**	**J**	**1.1**	**J**	NA	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	**0.69**	**J**	**5.4**		1.6	U	1.6	U	**3.1**	**J**	1.6	U	1.6	U	**0.57**	**J**	NA	
Acetone	140,000	4,620,000	**17**		**45**		**11**	J	**30**		**37**		**21**		**2.3**	**J**	**6.3**	**J**	NA	
Benzene	1.6	52.8	**0.57**	**J**	**2.3**		**0.64**	J	**1.9**		**2.2**		**0.49**	J	**0.49**	**J**	**0.6**	**J**	**0.4**	
Benzyl chloride	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	NA	
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	**0.49**	J	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	NA	
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	NA	
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	NA	
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	NA	
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	**4.2**		1.2	U	**0.78**	**J**	**24**		1.2	U	1.2	U	NA	
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	NA	
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	NA	
Chloroethane	44,000	1,452,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	NA	
Chloroform	0.53	17.49	**0.73**	**J**	**1.6**		**27**		0.98	U	0.98	U	**0.49**	J	0.98	U	0.98	U	NA	
Chloromethane	390	12,870	**0.87**	**J**	**1.2**	**J**	**1.7**		**0.57**	**J**	**1**	**J**	**0.84**	J	**1.2**	**J**	**1.4**	**J**	NA	
cis-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.040	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	NA	

Table 2
Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m^3)	Sub-slab Vapor Screening Level ** (µg/m^3)	786VMP-2		786VMP-2		786VMP-2		786VMP-3		786VMP-3		786VMP-3		786IA-1		786IA-1		786IA-1	
Field Sample ID			786VMP-2_1216		786VMP-2_0317		786VMP-2_0318		786VMP-3_1216		786VMP-3_0317		786VMP-3_0318		786IA-1_1216		786IA-1_0317		786IA-1_0318	
Lab Sample ID			320-23968-20		320-26740-7		320-37345-17		320-23968-21		320-26740-8		320-37345-18		320-23968-22		320-26740-9		320-37345-19	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017		3/21/2018		12/1/2016		3/17/2017		3/21/2018	
Sample Depth (ft bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		5		5		5	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8	
VOCs (µg/m^3)																				
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	NA	
Dichlorodifluoromethane	440	14,520	**2.3**	**J**	**3**	**J**	**2.1**	J	**2.3**	**J**	**2.9**	**J**	**1.5**	J	**2**	**J**	**2.6**	**J**	NA	
Ethylbenzene	4.9	161.7	**14**		**2.5**		**5.5**		**2**		**2.9**		**0.29**	J	**0.57**	**J**	**0.29**	**J**	NA	
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	NA	
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	NA	
Methylene Chloride	1,200	39,600	**0.32**	**J**	**0.54**	**J**	**0.49**	J	**0.41**	**J**	**0.57**	**J**	**0.42**	J	0.69	U	**1.5**		0.35	U
m-Xylene & p-Xylene	880***	NA	**72**		**8.2**		**33**		**7.9**		**10**		**1.1**	J	**2.6**	**J**	**1.3**	**J**	NA	
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	NA	
o-Xylene	440	14,520	**24**		**4**		**11**		**2.7**		**4.6**		**0.52**	J	**1**	**J**	**0.71**	**J**	NA	
Styrene	4,400	145,200	0.85	U	**0.98**	**J**	0.85	U	**0.68**	**J**	0.85	U	0.85	U	**0.38**	**J**	0.85	U	NA	
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**2.2**	J	**2.7**		1.4	U	**3.9**		**1.1**	**J**	1.4	U	0.14	U
Toluene	22,000	726,000	**2.3**		**11**		**0.77**	J	**11**		**11**		**0.55**	J	**2**		**1.1**	**J**	NA	
trans-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	NA	
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	NA	
Trichloroethene	3	99	**0.88**	**J**	2.1	U	**200**		2.1	U	2.1	U	**40**		2.1	U	2.1	U	**0.035**	J
Trichlorofluoromethane	NA	NA	**1.5**	**J**	**1.9**	**J**	**3.2**	J	**1.3**	**J**	**1.6**	**J**	**1.6**	J	**1.3**	**J**	**1.3**	**J**	NA	
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	NA	
Vinyl chloride	2.8	92.4	1	U	**0.75**	**J**	1.0	U	1	U	1	U	1.0	U	1	U	1	U	0.026	U

Notes:
VOC - Volatile Organic Compound
µg/m^3 = micrograms per cubic meter
ft - feet
bgs = below ground surface
ags = above ground surface
hr = hour
NA = Not applicable
USEPA = United States Environmental Protection Agency
RSL = Regional Screening Level
HQ = Hazard Quotient
DAF = Dilution Attenuation Factor
OSWER = Office of Solid Waste and Emergency Response
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
* = USEPA Industrial Air RSL, HQ = 1, May 2018
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5,
*** = Screening level is the summation of m-xylene and p-xylene
Data Qualifiers
J - Estimated: The analyte was positively identified; the quantitation is an est
U - Undetected at the Limit of Detection

Table 3
USEPA - Soil Vapor/Indoor Air Matrix - June 2017 Update - TCE Cancer (Commercial/Industrial)
Former Griffiss Air Force Base, Rome, New York

Analytes Assigned: Trichloroethene (TCE)

	INDOOR AIR CONCENTRATION of COMPOUND (µg/m^3)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m^3)	3	30	300
99	(1) No Action 774VMP-1 - 0.56/0.11/March 2018 774VMP-2 - 0.66/0.11/March 2018 774VMP-3 - 0.56/0.11/March 2018 776VMP-1 - 0.56/0.13/March 2018 776VMP-2 - 0.56/0.13/March 2018 776VMP-3 - 27/0.13/March 2018 785VMP-2 - 13/0.029/March 2018 785VMP-4 - 0.56/0.029/March 2018 785VMP-5 - 0.97/0.029/March 2018 786VMP-1 - 89/0.035/March 2018 786VMP-3 - 40/0.035/March 2018	(2) Investigate	(3) Investigate
1,000	(4) Monitor 786VMP-2 - 200/0.035/March 2018	(5) Monitor or Pursue Remediation	(6) Investigate or Pursue Remediation
10,000	(7) Monitor or Pursue Remediation	(8) Pursue Remediation or Monitor	(9) Pursue Remediation

Notes
No action: No additional actions are recommended to address human exposures

Investigate: is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

Monitor or Pursue Remediation: is recommended monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Pursue Remediation: is recommended to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Convension: Sample Name - Sub-Slab Concentration (µg/m^3)/Indoor Air Concentration (µg/m^3)

Table 4
USEPA - Soil Vapor/Indoor Air Matrix - June 2017 Update - TCE Noncancer (Commercial/Industrial)
Former Griffiss Air Force Base, Rome, New York

Analytes Assigned: Trichloroethene (TCE)

	INDOOR AIR CONCENTRATION of COMPOUND (µg/m^3)	
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m^3)	HI < 1 If HI < 1 or TCE Concentration is < 8.8 µg/m3	HI > 1
HI < 1 If HI < 1 or TCE Concentration is < 293 µg/m^3 - Vapor Intrusion Investigation is over	(1) No Action 774VMP-1 - 1.9E-03/5.3E-02/March 2018 774VMP-2 - 2.3E-03/5.3E-02/March 2018 774VMP-3 - 1.9E-03/5.3E-02/March 2018 776VMP-1 - 1.9E-03/6.2E-02/March 2018 776VMP-2 - 1.9E-03/6.2E-02/March 2018 776VMP-3 - 3.9E-01/6.2E-02/March 2018 785VMP-2 - 1.9E-01/1.4E-02/March 2018 785VMP-4 - 1.9E-03/1.4E-02/March 2018 785VMP-5 - 1.4E-02/1.4E-02/March 2018 786VMP-3 - 0.58/1.7E-02/March 2018	(2) Investigate or Pursue Remediation
HI > 1	(3) Monitor or Pursue Remediation 786VMP-1 - 1.3/1.7E-02/March 2018 786VMP-2 - 2.9/1.7E-02/March 2018	(4) Pursue Remediation

Notes
No action: No additional actions are recommended to address human exposures

Investigate: is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

Monitor or Pursue Remediation: is recommended monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Pursue Remediation: is recommended to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Convension: Sample Name - Sub-Slab Hazard Index/Indoor Air Hazard Index

Table 5
Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m^3)	Sub-slab Vapor Screening Level ** (µg/m^3)	774VMP-1		774VMP-1		774VMP-1		774VMP-2		774VMP-2		774VMP-2		774VMP-3		774VMP-3		774VMP-3		774IA-1		774IA-1	
Field Sample Identification			774VMP-1_1216		774VMP-1_0317		774VMP-1_0318		774VMP-2-1216		774VMP-2_0317		774VMP-2_0318		774VMP-3-1216		774VMP-3-0317		774VMP-3-0318		774IA-1_1216		774IA-1_0317	
Lab Sample Identification			320-23968-3		320-26686-1		320-37345-1		320-23968-4		320-26686-2		320-37345-2		320-23968-5		320-26686-3		320-37345-3		320-23968-6		320-26686-4	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017	
Sample Depth (ft bgs / ags)			1		1		1		1		1		1		1		1		1		5		5	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m^3)																								
1,1,1-Trichloroethane	22,000	726,000	**0.4**	J	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
1,1,2-Trichloro-1,2,2-trifluoroethane	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
1,1,2-Trichloroethane	0.77	25.41	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
1,2,4-Trichlorobenzene	8.8	290.4	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	2.0	U	2	U	**15**		2.0	U	2	U	**8.4**		2.0	U	2	U	2	U
1,2-Dibromoethane (EDB)	0.02	0.66	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
1,3,5-Trimethylbenzene	260	NA	2	U	2	U	2.0	U	2	U	**5**		2.0	U	2	U	**4**		2.0	U	2	U	2	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	2.4	U	**6.2**		2.4	U	2.4	U	**3.8**	J	2.4	U	2.4	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
2-Butanone (MEK)	22,000	726,000	**1.2**	J	**2.4**		**1.5**	J	**1.5**	J	**6.5**		**1.2**	J	**3.3**		**6.4**		1.2	U	**1**	J	**1.9**	J
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
4-Ethyltoluene	NA	NA	2	U	2	U	2.0	U	2	U	**5**		2.0	U	2	U	**3.4**	J	2.0	U	2	U	2	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	1.6	U	1.6	U	**6.4**		1.6	U	1.6	U	**6.1**		1.6	U	1.6	U	1.6	U
Acetone	140,000	4,620,000	**12**		**32**		**21**		**13**		**23**		**21**		**20**		**22**		**7.9**	J	**14**		**8.7**	J
Benzene	1.6	52.8	**0.4**	J	**0.55**	J	**0.53**	J	**0.51**	J	**2.7**		**0.55**	J	**0.6**	J	**2.1**		**0.47**	J	**0.51**	J	**1.7**	
Benzyl chloride	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	1.2	U	**1.4**	J	1.2	U	1.2	U	**8.3**		1.2	U	1.2	U	1.2	U	**3.1**	
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Chloroethane	44,000	1,452,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Chloromethane	390	12,870	**0.79**	J	**0.94**	J	**1.5**	J	**1.3**	J	**0.99**	J	**1.0**	J	**1.2**	J	**1.2**	J	**2.4**		**1.4**	J	**1.4**	J
cis-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U

Table 5
Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m^3)	Sub-slab Vapor Screening Level ** (µg/m^3)	774VMP-1		774VMP-1		774VMP-1		774VMP-2		774VMP-2		774VMP-2		774VMP-3		774VMP-3		774VMP-3		774IA-1		774IA-1	
Field Sample Identification			774VMP-1_1216		774VMP-1_0317		774VMP-1_0318		774VMP-2-1216		774VMP-2_0317		774VMP-2_0318		774VMP-3-1216		774VMP-3-0317		774VMP-3-0318		774IA-1_1216		774IA-1_0317	
Lab Sample Identification			320-23968-3		320-26686-1		320-37345-1		320-23968-4		320-26686-2		320-37345-2		320-23968-5		320-26686-3		320-37345-3		320-23968-6		320-26686-4	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017	
Sample Depth (ft bgs / ags)			1		1		1		1		1		1		1		1		1		5		5	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m^3)																								
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane	440	14,520	**2.4**	**J**	**2.7**	**J**	**1.8**	J	**2.4**	**J**	**2.7**	**J**	**1.8**	J	**2.7**	**J**	**2.8**	**J**	**2.1**	J	**2.5**	**J**	**2.7**	**J**
Ethylbenzene	4.9	161.7	0.87	U	0.87	U	0.87	U	0.87	U	**11**		**0.40**	J	0.87	U	**11**		0.87	U	0.87	U	**0.38**	**J**
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Methylene Chloride	1,200	39,600	**0.4**	**J**	**0.43**	**J**	**0.49**	J	**0.38**	**J**	**0.56**	**J**	**0.58**	J	**0.57**	**J**	**0.71**	**J**	**23**		**0.48**	**J**	**0.47**	**J**
m-Xylene & p-Xylene***	880	29,040	0.87	U	0.87	U	0.87	U	**0.46**	**J**	**37**		**0.48**	J	**0.77**	**J**	**36**		0.87	U	**0.52**	**J**	**1.1**	**J**
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
o-Xylene	440	14,520	0.87	U	0.87	U	0.87	U	0.87	U	**16**		0.87	U	**0.29**	**J**	**15**		0.87	U	0.87	U	**0.43**	**J**
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	**0.26**	**J**	0.85	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Toluene	22,000	726,000	**0.85**	**J**	0.75	U	**0.77**	J	**0.81**	**J**	**35**		**1.1**	J	**2.2**		**31**		**0.42**	J	**0.97**	**J**	**2**	
trans-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U
Trichloroethene	3	99	**0.68**	**J**	2.1	U	2.1	U	2.1	U	2.1	U	**0.66**	J	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Trichlorofluoromethane	NA	NA	**8.9**		**5.4**		**8.4**		**8.6**		**5.1**		**9.1**		**67**		**65**		**46**		**47**		**35**	
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	2.8	92.4	1	U	1	U	1.0	U	1	U	1	U	1.0	U	1	U	1	U	1.0	U	1	U	1	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
VOC - Volatile Organic Compound
µg/m^3 = micrograms per cubic meter
ft - feet
bgs = below ground surface
ags = above ground surface
hr = hour
NA = Not applicable
USEPA = United States Environmental Protection Agency
RSL = Regional Screening Level
HQ = Hazard Quotient
DAF = Dilution Attenuation Factor
OSWER = Office of Solid Waste and Emergency Response
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
* = USEPA Industrial Air RSL, HQ = 1, May 2018
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection

Table 5
Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774IA-1		774776-INF		774776-INF		774776-INF		776VMP-1		776VMP-1		776VMP-1		776VMP-2		776VMP-2		776VMP-2		776VMP-2	
Field Sample Identification			774IA-1_0318		774776-INF_1116		774776-INF_0317		774776-INF_0318		776VMP-1_1216		776VMP-1_0317		776VMP-1_0318		776VMP-2_1216		776VMP-2_1216-a		776VMP-2_0317		776VMP-2_0317-a	
Lab Sample Identification			320-37345-4		320-23968-1		320-26740-10		320-37345-21		320-23968-7		320-26686-5		320-37345-5		320-23968-8		320-23968-9		320-26686-6		320-26686-7	
Sample Location			Indoor		Influent		Influent		Influent		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Field Duplicate		Normal		Field Duplicate	
Date of Collection			3/21/2018		11/28/2016		3/17/2017		3/9/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		12/1/2016		3/16/2017		3/16/2017	
Sample Depth (ft bgs / ags)			5		NA		NA		NA		1		1		1		1		1		1		1	
Sample Collection Duration (hr)			8		Quick Grab		Quick Grab		Quick Grab		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																								
1,1,1-Trichloroethane	22,000	726,000	0.055	U	**0.96**	**J**	**1.2**	**J**	**1.5**	J	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,1,2,2-Tetrachloroethane	0.21	6.93	NA		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
1,1,2-Trichloro-1,2,2-trifluoroethane	22,000	726,000	NA		3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
1,1,2-Trichloroethane	0.77	25.41	NA		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,1-Dichloroethane	7.7	254.1	NA		0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U
1,1-Dichloroethene	880	29,040	0.040	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
1,2,4-Trichlorobenzene	8.8	290.4	NA		8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U
1,2,4-Trimethylbenzene	260	8,580	NA		2	U	**2.7**	**J**	2.0	U	**2.8**	**J**	2	U	2.0	U	**3**	**J**	**3.1**	**J**	2	U	2	U
1,2-Dibromoethane (EDB)	0.02	0.66	NA		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
1,2-Dichlorobenzene	880	29,040	NA		2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
1,2-Dichloroethane	0.47	15.5	NA		0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U
1,2-Dichloropropane	3.30	108.9	NA		3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
1,3,5-Trimethylbenzene	260	NA	NA		2	U	**1**	**J**	2.0	U	**0.89**	**J**	2	U	2.0	U	**0.9**	**J**	**0.99**	**J**	2	U	2	U
1,3-Dichlorobenzene	NA	NA	NA		2.4	U	**1.3**	**J**	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	NA		2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
2-Butanone (MEK)	22,000	726,000	NA		**3.2**		**2.1**	**J**	**0.68**	J	**6**		**2**	**J**	**2.3**	J	**5.2**		**4.5**		**1.8**	**J**	**1.9**	**J**
2-Hexanone	130	4,290	NA		0.82	U	0.82	U	0.82	U	**0.4**	**J**	0.82	U	0.82	U	**0.52**	**J**	**0.42**	**J**	0.82	U	0.82	U
4-Ethyltoluene	NA	NA	NA		2	U	**1**	**J**	2.0	U	2	U	2	U	2.0	U	2	U	**1.2**	**J**	2	U	2	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	NA		1.6	U	1.6	U	1.6	U	1.6	U	**0.99**	**J**	**1.3**	J	1.6	U	1.6	U	**0.92**	**J**	**0.89**	**J**
Acetone	140,000	4,620,000	NA		**28**		**17**		**19**		**51**		**26**		**51**		**42**		**37**		**32**		**27**	
Benzene	1.6	52.8	**0.44**		**0.76**	**J**	**1.5**		**0.99**	J	**2.5**		**0.55**	**J**	**0.64**	J	**2.1**		**2**		**0.53**	**J**	**0.56**	**J**
Benzyl chloride	0.25	8.25	NA		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Bromodichloromethane	0.33	10.89	NA		1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Bromoform	11	363	NA		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Bromomethane	22	726	NA		3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Butadiene	0.41	NA	NA		0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U
Carbon disulfide	3,100	102,300	NA		**0.53**	**J**	1.2	U	**11**		1.2	U	**0.58**	**J**	1.2	U	1.2	U	1.2	U	1.2	U	**0.62**	**J**
Carbon tetrachloride	2	66	**0.41**		1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	1.3	U	1.3	U
Chlorobenzene	220	7,260	NA		0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Chloroethane	44,000	1,452,000	NA		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Chloroform	0.53	17.49	NA		**1.2**	**J**	**1.2**	**J**	**1.2**	J	0.98	U	0.98	U	**0.52**	J	0.98	U	**0.53**	**J**	**0.53**	**J**	**0.54**	**J**
Chloromethane	390	12,870	NA		**1.3**	**J**	**0.81**	**J**	**1.8**		**1.2**	**J**	**1.1**	**J**	**1.2**	J	**1.4**	**J**	**1.5**	**J**	**1.5**	**J**	**1.5**	**J**
cis-1,2-Dichloroethene	NA	NA	**0.071**	J	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
cis-1,3-Dichloropropene	NA	NA	NA		1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U

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Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774IA-1		774776-INF		774776-INF		774776-INF		776VMP-1		776VMP-1		776VMP-1		776VMP-2		776VMP-2		776VMP-2		776VMP-2	
Field Sample Identification			774IA-1_0318		774776-INF_1116		774776-INF_0317		774776-INF_0318		776VMP-1_1216		776VMP-1_0317		776VMP-1_0318		776VMP-2_1216		776VMP-2_1216-a		776VMP-2_0317		776VMP-2_0317-a	
Lab Sample Identification			320-37345-4		320-23968-1		320-26740-10		320-37345-21		320-23968-7		320-26686-5		320-37345-5		320-23968-8		320-23968-9		320-26686-6		320-26686-7	
Sample Location			Indoor		Influent		Influent		Influent		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Field Duplicate		Normal		Field Duplicate	
Date of Collection			3/21/2018		11/28/2016		3/17/2017		3/9/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		12/1/2016		3/16/2017		3/16/2017	
Sample Depth (ft bgs / ags)			5		NA		NA		NA		1		1		1		1		1		1		1	
Sample Collection Duration (hr)			8		Quick Grab		Quick Grab		Quick Grab		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																								
Dibromochloromethane	NA	NA	NA		1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane	440	14,520	NA		**5**		**5.4**		**3.0**	J	**2.5**	**J**	**2.9**	**J**	**1.9**	J	**2.8**	**J**	**2.9**	**J**	**3.2**	**J**	**3.2**	**J**
Ethylbenzene	4.9	161.7	NA		0.87	U	**2.5**		**0.29**	J	**2.6**		0.87	U	**0.33**	J	**2.9**		**2.9**		**0.28**	**J**	0.87	U
Hexachlorobutadiene	0.56	18.48	NA		13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U
Methyl tert-butyl ether	47	1,551	NA		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Methylene Chloride	1,200	39,600	**0.37**	**J**	**0.36**	**J**	**0.68**	**J**	**0.50**	J	**0.45**	**J**	**0.4**	**J**	**0.52**	J	**0.46**	**J**	**0.53**	**J**	**0.53**	**J**	**0.51**	**J**
m-Xylene & p-Xylene***	880	29,040	NA		0.87	U	**9**		**1.0**	J	**10**		**0.6**	**J**	**0.78**	J	**11**		**11**		**0.64**	**J**	**0.56**	**J**
Naphthalene	0.36	11.88	NA		6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
o-Xylene	440	14,520	NA		0.87	U	**3.8**		**0.47**	J	**3.2**		**0.26**	**J**	**0.30**	J	**3.6**		**3.6**		**0.27**	**J**	**0.24**	**J**
Styrene	4,400	145,200	NA		0.85	U	0.85	U	0.85	U	**1.2**	**J**	0.85	U	**0.29**	J	**1.5**	**J**	**1.7**		**0.28**	**J**	0.85	U
Tetrachloroethene	47	1,551	**0.080**	J	1.4	U	1.4	U	**0.76**	J	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Toluene	22,000	726,000	NA		**0.22**	**J**	**5.9**		**0.81**	J	**15**		**0.91**	**J**	**1.2**	J	**16**		**15**		**0.95**	**J**	**0.9**	**J**
trans-1,2-Dichloroethene	NA	NA	NA		0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	NA	NA	NA		0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U
Trichloroethene	3	99	**0.11**		**37**		**36**		**57**		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Trichlorofluoromethane	NA	NA	NA		**22**		**56**		**35**		2.2	U	**1.3**	**J**	**1.7**	J	**1.4**	**J**	**1.6**	**J**	**1.4**	**J**	**1.4**	**J**
Vinyl acetate	880	29,040	NA		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	2.8	92.4	0.026	U	1	U	1	U	1.0	U	1	U	1	U	1.0	U	1	U	1	U	1	U	1	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		**0.54**	J	NA		NA		1.4	U	NA		NA		NA		NA	

Notes:
VOC - Volatile Organic Compound
$\mu g/m^3$ = micrograms per cubic meter
ft - feet
bgs = below ground surface
ags = above ground surface
hr = hour
NA = Not applicable
USEPA = United States Environmental Protection Agency
RSL = Regional Screening Level
HQ = Hazard Quotient
DAF = Dilution Attenuation Factor
OSWER = Office of Solid Waste and Emergency Response
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
* = USEPA Industrial Air RSL, HQ = 1, May 2018
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footı
*** = screening level is the summation of m-xylene and p-xylene

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

Table 5
Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	776VMP-2		776VMP-2		776VMP-3		776VMP-3		776VMP-3		776IA-1		776IA-1		776IA-1		776OA-1		776OA-1		776OA-1	
Field Sample Identification			776VMP-2_0318		776VMP-2_0318-a		776VMP-3_1216		776VMP-3_0317		776VMP-3_0318		776IA-1_1216		776IA-1_0317		776IA-1_0318		776OA-1_1216		776OA-1_0317		776OA-1_0318	
Lab Sample Identification			320-37345-6		320-37345-7		320-23968-10		320-26686-8		320-37345-8		320-23968-12		320-26686-9		320-37345-9		320-23968-11		320-26686-10		320-37345-10	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor		Indoor		Outdoor		Outdoor		Outdoor	
Sample Type			Normal		Field Duplicate		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			3/21/2018		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018	
Sample Depth (ft bgs / ags)			1		1		1		1		1		5		5		5		2		2		2	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																								
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	0.055	U	1.1	U	1.1	U	1.1	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	1.4	U
1,1,2-Trichloro-1,2,2-trifluoroethane	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	NA		3.1	U	3.1	U	3.1	U
1,1,2-Trichloroethane	0.77	25.41	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	NA		1.1	U	1.1	U	1.1	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	NA		0.81	U	0.81	U	0.81	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	0.040	U	1.6	U	1.6	U	1.6	U
1,2,4-Trichlorobenzene	8.8	290.4	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	NA		8.9	U	8.9	U	8.9	U
1,2,4-Trimethylbenzene	260	8,580	2.0	U	2.0	U	**1.3**	**J**	2	U	2.0	U	2	U	**1.6**	**J**	NA		2	U	2	U	2.0	U
1,2-Dibromoethane (EDB)	0.02	0.66	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	NA		1.5	U	1.5	U	1.5	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	2.4	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	NA		0.81	U	0.81	U	0.81	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	NA		3.7	U	3.7	U	3.7	U
1,3,5-Trimethylbenzene	260	NA	2.0	U	2.0	U	2	U	2	U	2.0	U	2	U	2	U	NA		2	U	2	U	2.0	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	2.4	U
2-Butanone (MEK)	22,000	726,000	**2.7**		**2.3**	J	**5.4**		**2.3**	**J**	**2.9**		**1.7**	**J**	**1.7**	**J**	NA		**0.82**	**J**	**1.1**	**J**	**1.2**	J
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	NA		0.82	U	0.82	U	0.82	U
4-Ethyltoluene	NA	NA	2.0	U	2.0	U	2	U	2	U	2.0	U	2	U	2	U	NA		2	U	2	U	2.0	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	**1.7**	J	**1.5**	J	**1.7**	**J**	**1.2**	**J**	1.6	U	**2**	**J**	1.6	U	NA		1.6	U	1.6	U	1.6	U
Acetone	140,000	4,620,000	**55**		**53**		**64**		**39**		**76**		**28**		**25**		NA		**14**		**7**	**J**	**8.3**	J
Benzene	1.6	52.8	**0.62**	J	**0.61**	J	**2.5**		**0.53**	**J**	**0.36**	J	**0.46**	**J**	**0.53**	**J**	**0.48**		**1.8**		**0.45**	**J**	**0.49**	J
Benzyl chloride	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	2.1	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	NA		1.3	U	1.3	U	1.3	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	2.1	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	NA		3.1	U	3.1	U	3.1	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	NA		0.88	U	0.88	U	0.88	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	**5.7**		1.2	U	1.2	U	1.2	U	1.2	U	NA		1.2	U	1.2	U	1.2	U
Carbon tetrachloride	2	66	2.5	U	2.5	U	1.3	U	1.3	U	2.5	U	1.3	U	1.3	U	**0.42**		1.3	U	1.3	U	2.5	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	**0.46**	J	0.92	U	0.92	U	NA		0.92	U	0.92	U	0.92	U
Chloroethane	44,000	1,452,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	2.1	U
Chloroform	0.53	17.49	**0.58**	J	**0.53**	J	0.98	U	0.98	U	**0.46**	J	**0.5**	**J**	**0.47**	**J**	NA		0.98	U	0.98	U	0.98	U
Chloromethane	390	12,870	**1.5**	J	**1.4**	J	**1.1**	**J**	**0.81**	**J**	**0.88**	J	**1.3**	**J**	**1.7**		NA		**0.97**	**J**	**1.3**	**J**	**1.6**	J
cis-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**1.2**		0.79	U	0.79	U	0.79	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	NA		1.8	U	1.8	U	1.8	U

Table 5
Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016, March 2017, and March 2018)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m^3)	Sub-slab Vapor Screening Level ** (µg/m^3)	776VMP-2		776VMP-2		776VMP-3		776VMP-3		776VMP-3		776IA-1		776IA-1		776IA-1		776OA-1		776OA-1		776OA-1	
Field Sample Identification			776VMP-2_0318		776VMP-2_0318-a		776VMP-3_1216		776VMP-3_0317		776VMP-3_0318		776IA-1_1216		776IA-1_0317		776IA-1_0318		776OA-1_1216		776OA-1_0317		776OA-1_0318	
Lab Sample Identification			320-37345-6		320-37345-7		320-23968-10		320-26686-8		320-37345-8		320-23968-12		320-26686-9		320-37345-9		320-23968-11		320-26686-10		320-37345-10	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor		Indoor		Outdoor		Outdoor		Outdoor	
Sample Type			Normal		Field Duplicate		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			3/21/2018		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018		12/1/2016		3/16/2017		3/21/2018	
Sample Depth (ft bgs / ags)			1		1		1		1		1		5		5		5		2		2		2	
Sample Collection Duration (hr)			8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m^3)																								
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	NA		1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane	440	14,520	**2.0**	J	**2.0**	J	**2.8**	**J**	**3**	**J**	**2.0**	J	**2.7**	**J**	**3.2**	**J**	NA		**2.3**	**J**	**2.8**	**J**	**1.9**	J
Ethylbenzene	4.9	161.7	**0.33**	J	0.87	U	**2.1**		0.87	U	**3.0**		**0.31**	**J**	**0.29**	**J**	NA		0.87	U	0.87	U	0.87	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	13	U	13	U	NA		13	U	13	U	13	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	1.4	U
Methylene Chloride	1,200	39,600	**0.64**	J	**0.59**	J	**0.44**	**J**	**0.45**	**J**	**0.41**	J	**0.35**	**J**	**0.41**	**J**	**0.38**	**J**	**0.3**	**J**	**0.4**	**J**	**0.52**	J
m-Xylene & p-Xylene***	880	29,040	**0.75**	J	0.87	U	**7.7**		**0.62**	**J**	**1.4**	J	**0.72**	**J**	**1.1**	**J**	NA		0.87	U	0.87	U	0.87	U
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	NA		6.3	U	6.3	U	6.3	U
o-Xylene	440	14,520	**0.34**	J	0.87	U	**2.6**		**0.28**	**J**	**0.42**	J	**0.3**	**J**	**0.57**	**J**	NA		0.87	U	0.87	U	0.87	U
Styrene	4,400	145,200	**0.41**	J	0.85	U	**0.43**	**J**	0.85	U	**1.5**	J	**0.54**	**J**	**0.27**	**J**	NA		0.85	U	0.85	U	0.85	U
Tetrachloroethene	47	1,551	**0.40**	J	1.4	U	1.4	U	1.4	U	**100**		1.4	U	1.4	U	**0.17**		1.4	U	1.4	U	1.4	U
Toluene	22,000	726,000	**1.3**	J	**1.1**	J	**14**		**0.89**	**J**	**0.77**	J	**1.2**	**J**	**0.93**	**J**	NA		**0.49**	**J**	**0.23**	**J**	**0.53**	J
trans-1,2-Dichloroethene	NA	NA	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	NA		0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	NA		0.91	U	0.91	U	0.91	U
Trichloroethene	3	99	2.1	U	2.1	U	2.1	U	**0.94**	**J**	**27**		2.1	U	2.1	U	**0.13**		2.1	U	2.1	U	2.1	U
Trichlorofluoromethane	NA	NA	**1.7**	J	**1.8**	J	**1.4**	**J**	**1.4**	**J**	**1.5**	J	**1.3**	**J**	**1.3**	**J**	NA		**1.2**	**J**	**1.4**	**J**	**1.6**	J
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	1.4	U
Vinyl chloride	2.8	92.4	1.0	U	1.0	U	1	U	1	U	1.0	U	1	U	1	U	0.026	U	1	U	1	U	1.0	U
1,4-Dioxane	2.5	82.5	1.4	U	1.4	U	NA		NA		1.4	U	NA		NA		**0.062**	J	NA		NA		1.4	U

Notes:
VOC - Volatile Organic Compound
µg/m^3 = micrograms per cubic meter
ft - feet
bgs = below ground surface
ags = above ground surface
hr = hour
NA = Not applicable
USEPA = United States Environmental Protection Agency
RSL = Regional Screening Level
HQ = Hazard Quotient
DAF = Dilution Attenuation Factor
OSWER = Office of Solid Waste and Emergency Response
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
* = USEPA Industrial Air RSL, HQ = 1, May 2018
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footı
*** = screening level is the summation of m-xylene and p-xylene

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

Table 6
NYSDOH - Soil Vapor/Indoor Air Matrix A - May 2017 Update
Former Griffiss Air Force Base, Rome, New York

Analytes Assigned:
Trichloroethene (TCE), cis-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

	INDOOR AIR CONCENTRATION of COMPOUND (µg/m^3)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m^3)	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action 774VMP-1 - 0.56/0.11/March 2018 774VMP-2 - 0.66/0.11/March 2018 774VMP-3 - 0.56/0.11/March 2018 776VMP-1 - 0.56/0.13/March 2018 776VMP-2 - 0.56/0.13/March 2018	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action 776VMP-3 - 27/0.13/March 2018 785VMP-2 - 13/0.029/March 2018 785VMP-4 - 0.56/0.029/March 2018 785VMP-5 - 0.97/0.029/March 2018 786VMP-3 - 40/0.035/March 2018	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE 786VMP-1 - 89/0.035/March 2018 786VMP-2 - 200/0.035/March 2018	8. MITIGATE	9. MITIGATE

Notes
No further action: No additional actions are recommended to address human exposures

Identify Source(s) and Resample or Mitigate: is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

Monitor: is recommended monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: is recommended to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Convension: Sample Name - Sub-Slab Concentration (µg/m^3)/Indoor Air Concentration (µg/m^3)

FIGURES

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Former Griffiss Air Force Base Location Map

Figure 1

Operations and Maintenance (2nd through 4th Quarters 2017 and 1st Quarter 2018) and Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems Former Griffiss AFB, Rome New York

PROJECT NO: AFCGSA3.0012.00AC.2011.0004

SCALE: As Shown

DATE: 7/9/2018

DRAWN BY: MRM

bhate

Figure 2

Buildings 785 and 786
Site Features/Sampling Locations

Operations and Maintenance (2nd through 4th Quarters 2017 and 1st Quarter 2018) and
Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)
and SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

PROJECT NO: AFCGSA3.0012.00AC.2011.0004

SCALE: As Shown

DATE: 7/9/2018

DRAWN BY: MRM

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Buildings 774 and 776
Site Features/Sampling Locations

Figure 3

Operations and Maintenance (2nd through 4th Quarters 2017 and 1st Quarter 2018) and Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

PROJECT NO: AFCGSA3.0012.00AC.2011.0004

SCALE: As Shown

DATE: 7/9/2018

DRAWN BY: MRM

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775VMW-15R1
775MW-2
775VMW-24
774VMP-3
775VMW-14
774-SSV3
774-SSV2
774-IA1
774776-INLET
774VMP-2
774-SSV1
774-SSV4
774VMP-1
775VMW-4
776VMP-3
776-SSV3
775VMW-18R
776OA-1
774-OA1
SD052-SVI
Buildings 774 & 776
775MW-6
775VMW-5
776-IA1
776-SSV2
776VMP-2
776-SSV4
Approximate Direction of Groundwater Flow
775EW-1
775EW-3
775MW-27
775EW-1R
776-SSV1
776VMP-1
LF009
(Landfill 6 AOC)
775VMW-9
775VMW-8
775VMW-16
775VMW-19R
775MW-28
775VMW-10
775-MW20
775-MW20R
775VMW-20R
775-MW20RBR
0750
0770
0769
0774
0776
0778
0780
0791
Perimeter Rd
Phoenix Dr
Ready Rd
Line Ln
Daedalian Dr
401
791
789
753
507

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 50 100 200 Feet

Legend:
- Monitoring Well Location
- Extraction Well Location
- Vapor Monitoring Point Location
- Groundwater Trichloroethene (TCE) Isoconcentration > 5 µg/L (November 2016)
- (µg/L) Micrograms per Liter
- Installation Restoration Program (IRP) Area
- 5657 Building Number

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Buildings 785 and 786 SSVM System

Figure 4

Operations and Maintenance (2nd through 4th Quarters 2017 and 1st Quarter 2018) and Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

PROJECT NO: AFCGSA3.0012.00AC.2011.0004

SCALE: As Shown

DATE: 7/9/2018

DRAWN BY: MRM

bhate

782VMW-82
782VMW-76
782VMW-81
785VMP-5
785-SSV3
785-IA2
785-SSV2
785-IA3
782VMW-105B
785-SSV1
785VMP-4
785-IA1
785-SSV5
785VMP-2
785-SSV6
782VMW-104
782VMW-83
785OA-1
786OA-1
786VMP-2
786-SSV3
782VMW-97
786-IA2
786-SSV1
786-SSV4
786-IA3
786-IA1
786VMP-1
782VMW-98
786-SSV5
786-SSV2
786-SSV6
786VMP-3
782VMW-99

0784
0785
0786

Horizontal Well Riser
Horizontal Well Screen
Blower

Approximate Direction of Groundwater Flow

SD052-SVI
Buildings 785 & 786

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 40 80 160
Feet

Legend:
- Monitoring Well Location
- Vapor Monitoring Point Location
- Groundwater Trichloroethene (TCE) Isoconcentration > 5 µg/L (November 2016)
- Groundwater Dichloroethene (DCE) Isoconcentration > 5 µg/L (November 2016)
- Groundwater Vinyl Chloride Isoconcentration > 2 µg/L (November 2016)
- (µg/L) Micrograms per Liter
- Installation Restoration Program (IRP) Area
- 5657 Building Number

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Figure 5 SD052-SVI Sub-Slab TCE Vapor Concentrations for Bldg 785/786
Heating Season Data Only, November 15th to March 31st
Former Griffiss Air Force Base, Rome New York

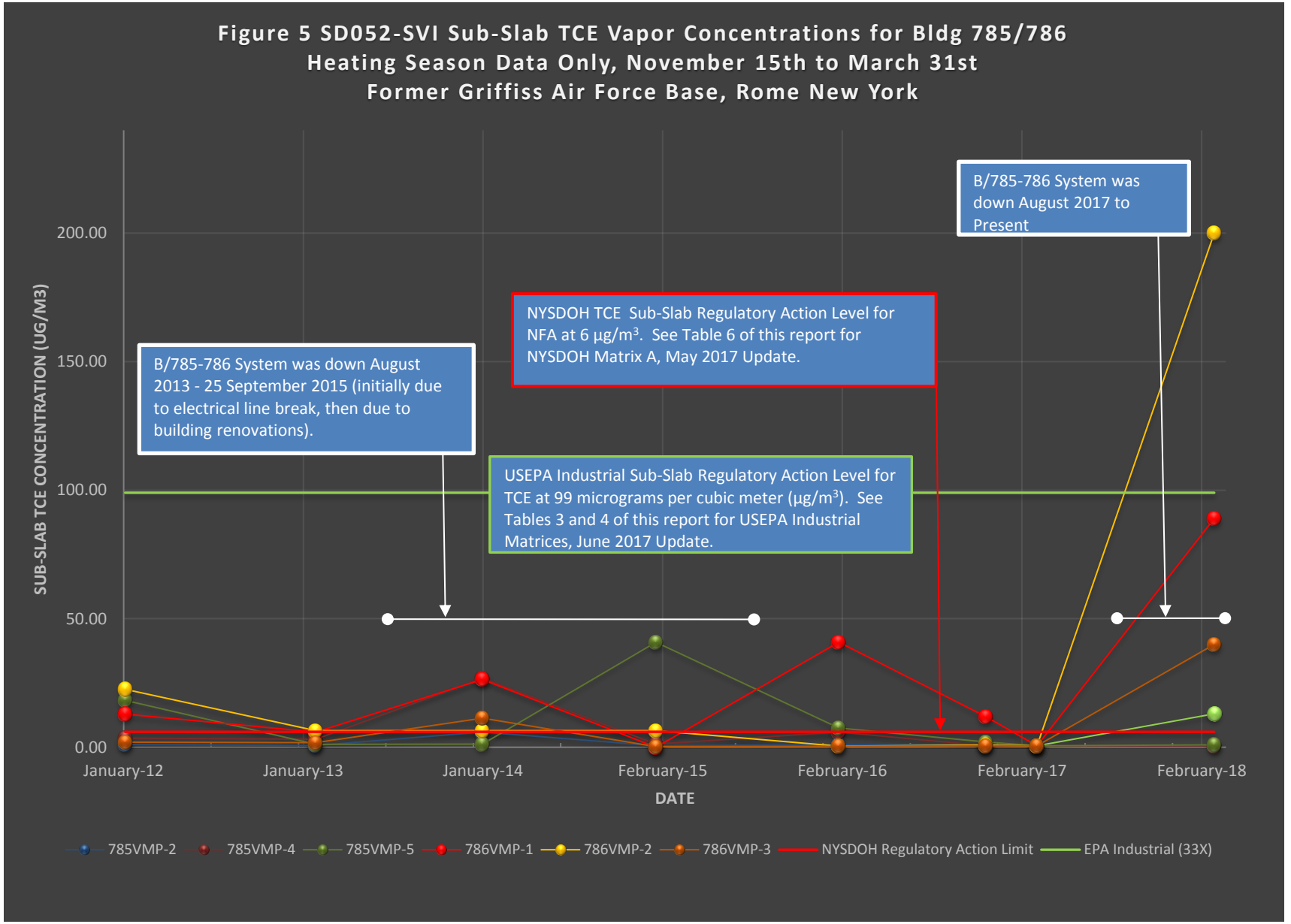


Figure 6

Buildings 774 and 776 SSVM System

Operations and Maintenance (2nd through 4th Quarters 2017 and 1st Quarter 2018) and Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

PROJECT NO: AFCGSA3.0012. 00AC.2011.0004

SCALE: As Shown

DATE: 7/9/2018

DRAWN BY: MRM

bhate

Horizontal Well Screen

Horizontal Well Riser

Blower

SD052-SVI
Buildings 774 & 776

Approximate Direction of Groundwater Flow

LF009
(Landfill 6 AOC)

775VMW-15R1
775MW-2
775VMW-24
774VMP-3
775VMW-14
774-SSV3
774-SSV2
774-IA1
774VMP-2
774776-INLET
774-SSV1
774-SSV4
774VMP-1
775VMW-4
776VMP-3
776-SSV3
775VMW-18R
776OA-1
774-OA1
775VMW-5
775MW-6
776-IA1
776-SSV2
776VMP-2
776-SSV4
776-SSV1
776VMP-1
775EW-1
775MW-27
775EW-3
775EW-1R
775VMW-9
775VMW-8
775VMW-16
775VMW-19R
775MW-28
775VMW-10
775-MW20
775-MW20R
775VMW-20R
775-MW20RBR

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 50 100 200 Feet

Legend:
- Monitoring Well Location
- Extraction Well Location
- Vapor Monitoring Point Location
- Groundwater Trichloroethene (TCE) Isoconcentration > 5 µg/L (November 2016)
- (µg/L) Micrograms per Liter
- Installation Restoration Program (IRP) Area
- 5657 Building Number

Esri, HERE, Garmin, © OpenStreetMap contributors, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Figure 7 SD052-SVI Sub-Slab TCE Vapor Concentrations for Bldg 774/776
Heating Season Data Only, November 15th to March 31st
Former Griffiss Air Force Base, Rome New York

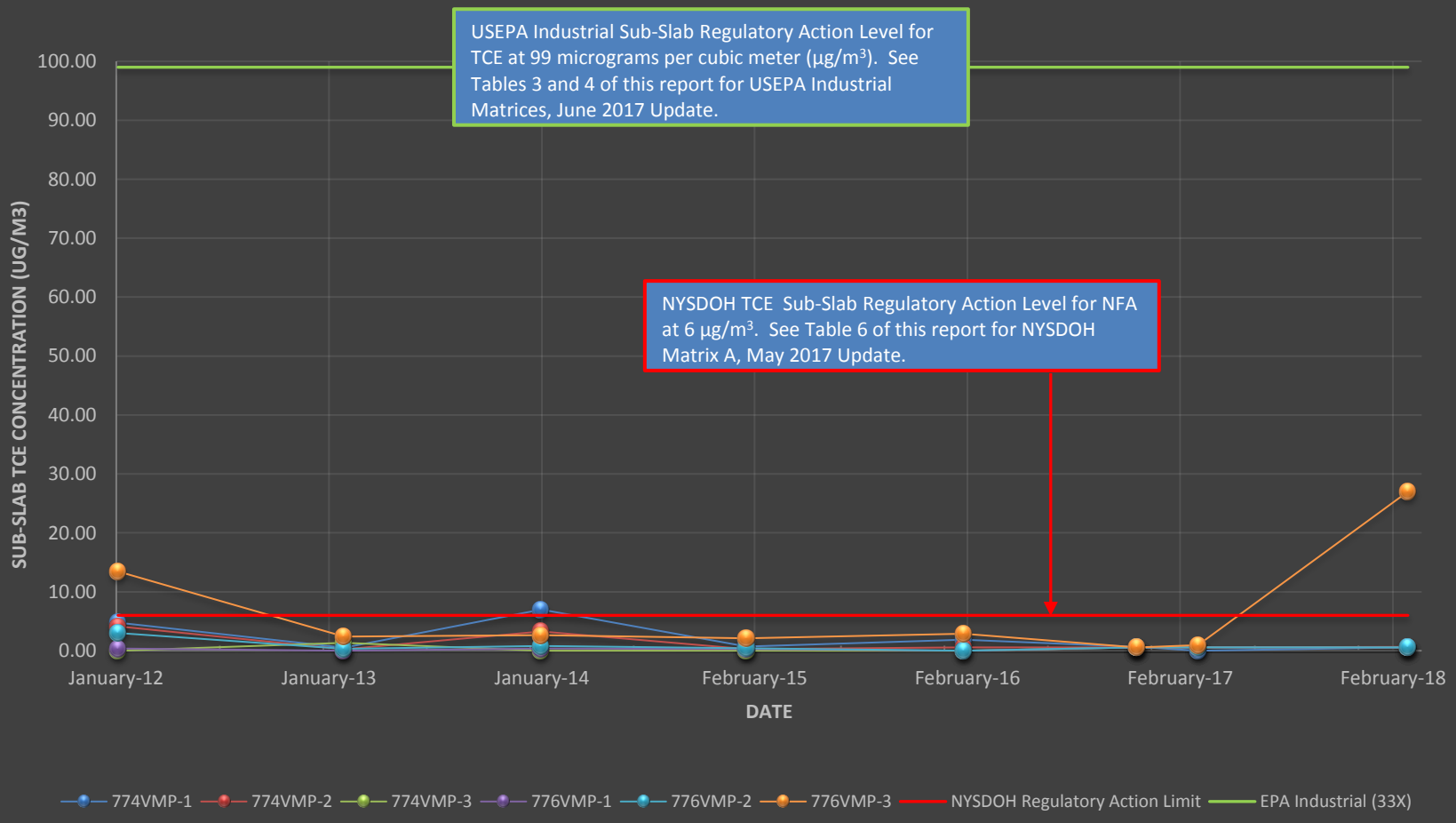
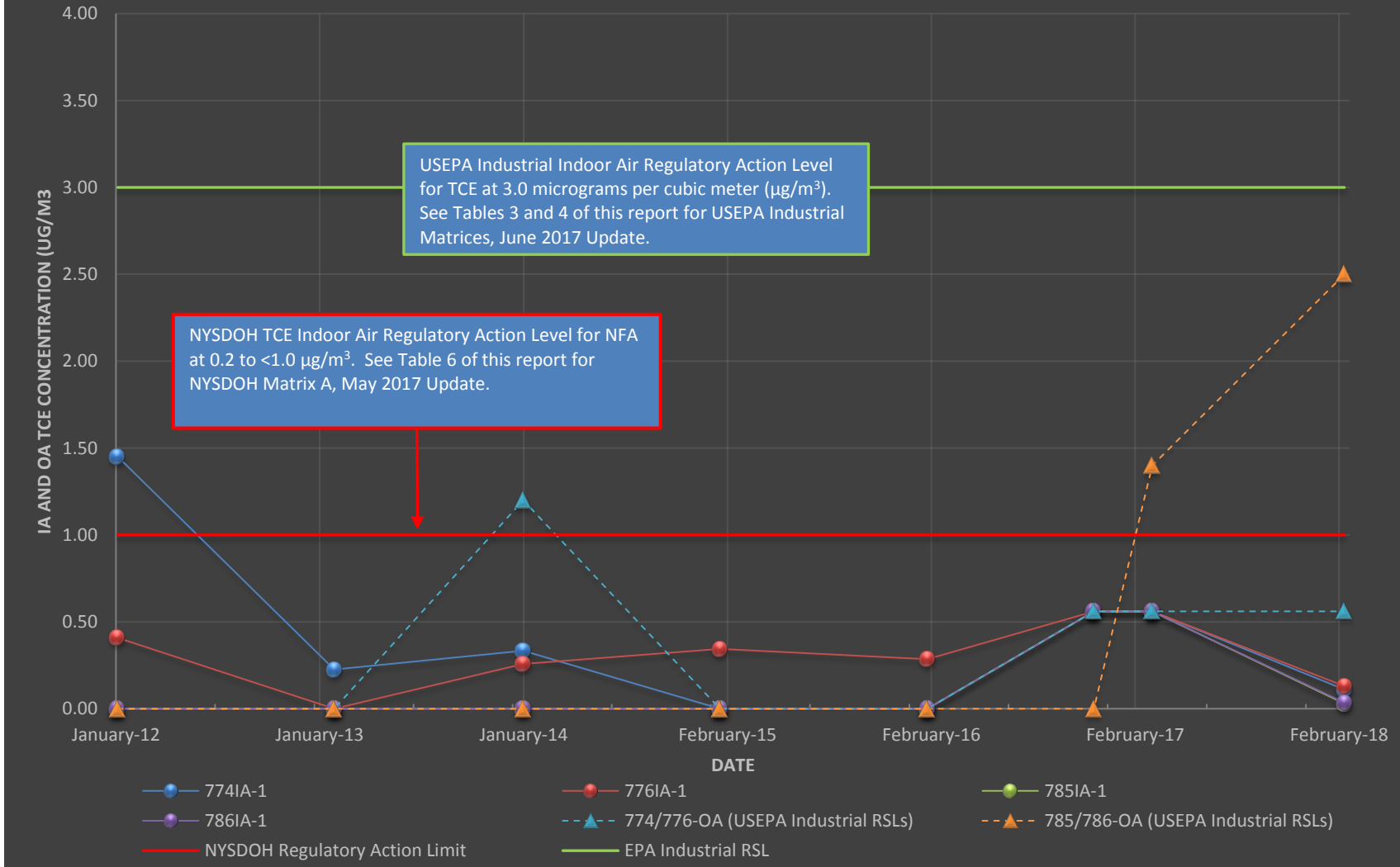
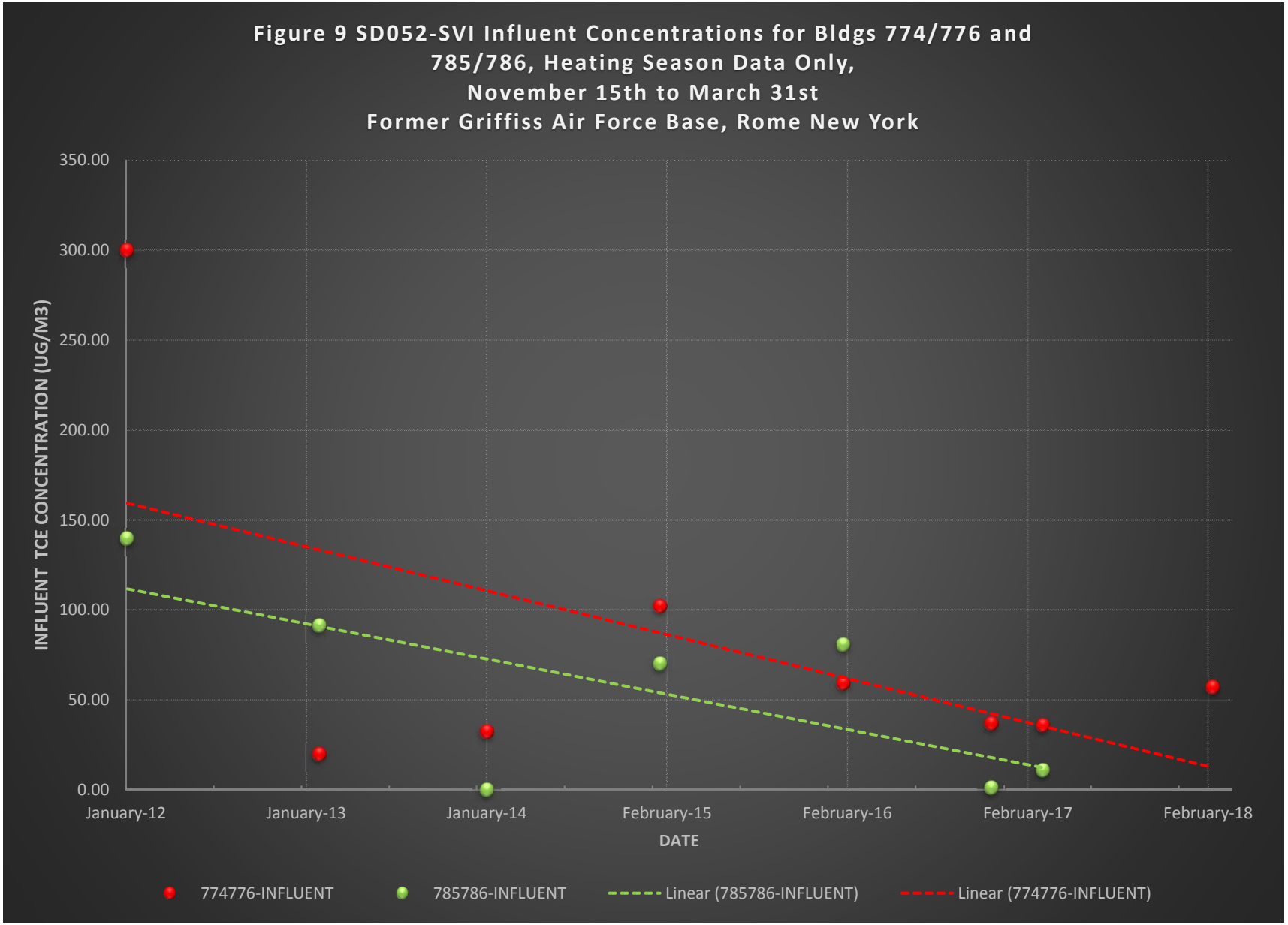


Figure 8 SD052-SVI Indoor and Outdoor TCE Concentrations for Bldgs 774/776 and 785/786, Heating Season Data Only, November 15th to March 31st Former Griffiss Air Force Base, Rome New York





bhate ENVIRONMENT & INFRASTRUCTURE

APPENDIX A
BUILDING 786 FLOOR SEAL PRODUCTS
(PROVIDED ELECTRONICALLY ON CD)

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PPG Protective & Marine Coatings

MegaSeal™ SL

Self-leveling epoxy floor coating

Product Data/ Application Instruction

- 100% solids
- Easy to apply, self leveling
- High-gloss
- Smooth, cleanable floor
- Excellent adhesion and abrasion resistance
- Provides long-lasting protection to concrete
- Impact resistant
- Suitable for new concrete or refurbishment

MegaSeal™ SL is a spreadable self-leveling epoxy floor coating for concrete floor protection where a smooth cleanable floor surface is required. MegaSeal SL is an offset for KL8410.

MegaSeal SL may be applied over a broad temperature range at varying thickness. Always mix packaged amounts of resin, and cure. DO NOT vary mix ratio.

MegaSeal™ FLK Flake Additive decorative vinyl chips or MegaSeal™ QTZ Quartz Additive color quartz may be used with MegaSeal SL for an attractive durable finish.

Typical Uses

- Food and beverage processing facilities
- Electronic equipment plants
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants
- Power plants
- Waste water and sewage treatment plants

Recommended Systems

Service	Primer	MegaSeal SL	MegaSeal SL Clear
Decorative	MegaSeal HSPC or WBPC	10 mils	10 mils
Mild	MegaSeal HSPC or WBPC	20 mils	Optional
Moderate	MegaSeal HSPC	30 mils	Optional

Products

99-12600	Clear Resin
99-12601	White Resin
99-12603	Tile Red Resin
99-12604	Sandstone Resin
99-12612	Deck Gray Resin
99-12614	Haze Gray Resin
99-12633	Standard Cure
99-12644	Fast Dry Cure

Physical Data

Finish	High gloss	
Components	2	
Curing mechanism	Chemical reaction between components	
Volume Solids (calculated)	100%	
DFT per coat	mils 10 to 30	microns 250 to 750
Coats	1 or 2	
Theoretical coverage	ft^2/gal	m^2/L
10 mils (250 microns)	160	3.9
20 mils (500 microns)	80	1.9
30 mils (750 microns)	53	1.3
Temperature resistance, dry	200˚F (93˚C)	
VOC (EPA 24)	0.3 lb/gal	38 g/L
Flash point (SETA)	°F	°C
cure (99-12633)	230	110
resin	240	116
fast-dry cure (99-12644)	240	116

Performance Data

Flexural Strength	ASTM C580	7,300 psi
Modulus of Elasticity	ASTM C580	474,000 psi
Compressive Strength	ASTM C579	10,500 psi
Linear Coefficient of Thermal Expansion	ASTM C531	60.7 x 10^{-6}
Tensile Strength	ASTM C307	3,290 psi

MegaSeal SL Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	F	G
Alkaline	E	E
Solvents	E	E
Salt solutions		
Acidic	G	VG
Neutral	E	E
Alkaline	E	E
Water	E	E

F-Fair G-Good VG-Very Good E-Excellent

This chart shows typical resistance of MegaSeal SL. Contact your Sales representative for your specific requirements.

Surface Preparation

Coating performance is proportional to the degree of surface preparation. MegaSeal SL must be applied over MegaSeal HSPC or MegaSeal WBPC primer. Refer to the Product Data/ Application Instructions for the specific primer being used for surface preparation specifications. Concrete and primed concrete surfaces must be clean and dry and free of contaminants such as dust, dirt, grease, or oil. It is important that a suitable moisture barrier is in place for slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive hydrostatic pressure regardless of results measured prior to coating applications.

New/Bare Concrete – Refer to SSPC-SP 13/NACE No.6 surface preparation of concrete for detailed information regarding surface preparation of concrete. In general, concrete must have sufficient profile to achieve satisfactory adhesion of primer and topcoat. Concrete must be in sound condition and free of all coatings, curing compounds, oil and other contaminants. New concrete must cure a minimum of 28 days prior to application of any coatings.

Concrete can be abrasive blasted (ASTM D4259) or mechanically abraded to achieve a profile equal to 60 grit sandpaper or coarser. Moisture vapor transmission should be 3lbs. or less over a 1000 sq.ft. area during a 24 hour period, measured and confirmed through a calcium chloride test (ASTM F1869). Concrete should have a minimum surface tensile strength of 300 PSI verified by a pull-off adhesion test. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact your local PPG representative for guidance. Consult the following ASTM methods: ASTM 4263 - plastic sheet method for checking moisture in concrete; ASTM 4258 standard practice for cleaning concrete; ASTM 4259 standard practice for abrading concrete; ASTM 4260 standard practice for etching concrete.

Previously Painted Concrete – Old coatings and concrete must be in sound condition. Surfaces must be clean and dry and free of all contaminants such as dust, dirt, grease, or oil. Old coatings must be uniformly abraded to achieve satisfactory adhesion. Apply a test patch to the abraded surface and allow to cure a minimum of one week before testing adhesion. If adhesion is poor, or if the old coatings are peeling, chipping, or are otherwise in poor condition, remove the coatings down to bare concrete and prepare the bare concrete as shown above.

Application Data

Applied over	Prepared and primed concrete
Surface Preparation	ASTM D4260 or 4259
Primer	MegaSeal HSPC, MegaSeal WBPC
Method	Pour and spread - squeegee and backroll
Mixing ratio (by volume)	2 parts resin to 1 part cure

Environmental Conditions		
Temperature	°F	°C
air	55 to 95	13 to 35
surface	55 to 95	13 to 35
material	55 to 95	13 to 35

Surface temperatures must be at least 5˚F (3˚C) above dew point to prevent condensation. Relative humidity must not exceed 85%.

Pot life (mins.)	˚F/˚C		
	90/32	70/21	55/13
standard cure	20	40	60
fast drying cure	NR	25	35

Drying time (hours, @ 20 mils DFT, 50% RH)

	˚F/˚C		
	90/32	70/21	55/13
Standard cure			
Touch	4	6	15
Foot traffic	18	24	48
Heavy traffic	60	72	96
Full cure	5 days	7 days	10 days
Fast-Dry cure	NR		
Touch	—	4	6
Foot traffic	—	16	36
Heavy traffic	—	48	72
Full cure	—	7 days	7 days

Recoat time (hours, @ 20 mils DFT, 50% RH)

	˚F/˚C		
	90/32	70/21	55/13
Standard cure			
Recoat, min	6	8	12
Recoat, max	72	72	72
Fast-Dry cure	NR		
Recoat, min	—	7	8
Recoat, max	—	72	72

Application Equipment

The following is a guide. Adjustments in application equipment or technique may be necessary to accommodate varying field conditions.

Squeegee – Flat or notched rubber squeegee (depending upon DFT required) with EPDM rubber blade, available from manufacturers such as Midwest Rake Co.

Rollers – ⅜ inch lint-free roller with phenolic core for backrolling, and 7/16 inch sharp-tipped spiked roller for air release and leveling, available from manufacturers such as Midwest Rake Co.

Mixing

MegaSeal SL is a two-component coating. Stir resin thoroughly to disperse pigment before mixing with cure. Add cure to resin and mix slowly until uniformly blended. **Do not mix at high speed, air entrainment will occur.** MegaSeal SL is ready for use immediately after mixing resin and cure; no induction time is required. Do not mix more material than can be used within the working time: See potlife data. Material which has begun to set cannot be satisfactorily used and must be discarded. Surface temperatures must be at least 5˚F (3˚C) above dew point to prevent condensation.

Application Procedure

MegaSeal SL is packaged in the proper proportions which must be mixed together before use. **Mix full units only.**

Pour mixed material onto floor in a long ribbon approximately 12 to 18 inches wide. Do not drain or scrape the bucket.

Using either a flat or notched rubber squeegee depending upon film thickness requirements, spread the mixed material to a uniform thickness.

Wet film thickness can be adjusted by varying the angle of the squeegee to the floor and by varying the amount of pressure applied.

As material is being spread with the squeegee, an applicator wearing spiked shoes should immediately backroll and crossroll the material with a clean, lint-free ⅜" roller. Finish by uniformly tipping off the surface with the roller in one direction.

After 15 minutes set up time, the material should be rolled with a spiked roller to aid air release and improve appearance. Do not spike roll after 30 minutes.

Shipping Data

Packaging	5 gal unit	
standard cure	1.67 gal in 2½ gal can	
fast dry cure	1.67 gal in 2½ gal can	
resin	3.33 gal in 5 gal can	
Shipping weight	lbs	kg
5 gal unit		
resin	49.0	22.2
cure	17.0	7.7

Shelf life when stored indoors at 40 to 100°F (4 to 38°C) resin and cure 1 year from shipment date

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

This product is for industrial use only. Not for residential use.

Warranty

PPG warrants only its title to the products, and that the products will be set forth in the warranty statement, if any, on the products labeling or in the absence of any such warranty statement that the products will conform to PPG's applicable published specifications. PPG's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

PPG makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by PPG, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Due to PPG's policy of continuous product improvement, the information contained in this Product Data/Application Instructions sheet is subject to change without notice. It is the Buyer's responsibility to check that this issue is current prior to using the product. For the most up-to-date Product Data/Application Instructions always refer to the PPG Protective & Marine Coatings website at www.ppgpmc.com.

Limitation of Liability

PPG's liability on any claim of any kind, including claims based upon PPG's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. In no event shall PPG be liable for consequential or incidental damages.

PPG Protective & Marine Coatings
www.ppgpmc.com

One PPG Place, Pittsburgh, PA 15272 • Tel: (800) 441-9695

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PPG Protective & Marine Coatings

MEGASEAL™ HSPC

100% solids epoxy primer/sealer

Product Data/Application Instructions

- 100% solids
- Easy to apply
- Low viscosity
- Seals porous concrete, reduces bubbling of self-leveling topcoats
- Suitable for new concrete or refurbishment
- Smoothes rough surface profile

MegaSeal HSPC is a low viscosity, 100% solids, two component, high build, fast cure epoxy primer/sealer. MegaSeal HSPC enhances adhesion by penetrating into the concrete substrate and helps reduce bubbling and pinholes that may occur when coating porous surfaces.

Typical Uses

- Food and beverage processing facilities
- Electronic equipment plants
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants
- Power plants
- Waste water and sewage treatment plants

MegaSeal HSPC is for use over prepared concrete. It is ideal for use on porous concrete or over a rough surface profile.

MegaSeal HSPC is normally topcoated with MegaSeal SL. Consult your sales representative for other recommendations.

Recommended Systems

Service	Primer	2nd Coat	3rd Coat
Decorative	MegaSeal HSPC	MegaSeal SL (10 mils)	MegaSeal SL Clear
Mild	MegaSeal HSPC	MegaSeal SL (20 mils)	MegaSeal SL Clear
Moderate	MegaSeal HSPC	MegaSeal SL (30 mils)	MegaSeal SL Clear
Severe	MegaSeal HSPC	MegaSeal HDSL	MegaSeal SL Clear
Chemical Exposure	MegaSeal HSPC	MegaSeal SC/HSN	None

Products

99-12700	Clear Resin
99-12710	Gray Resin
99-12733	Cure

Physical Data

Finish	Low Gloss	
Color*	Clear, gray	
Components	2	
Curing mechanism	Chemical reaction between components	
Volume solids (calculated)	100%	
DFT per coat	mils	microns
	6 to 10	150 to 250
Coats	1	
Theoretical coverage**	ft^2/gal	m^2/L
6 mils (150 microns)	267	6.5
8 mils (200 microns)	200	4.9
10 mils (250 microns)	160	3.9
Temperature resistance, dry	200ºF (93ºC)	
VOC (calculated)	0.0 lb/gal	0.0 g/L
Flash point (SETA)	°F	°C
99-12700	255	124
99-12733	300	182

**MegaSeal HSPC is subject to color change upon aging especially if exposed to direct sunlight. There may be minor variations in color from batch to batch. Change batches at natural breaks or transitions, or intermix batches for consistency.*

***Coverage will vary, depending on density or porosity of concrete, and application method.*

99-127 (3/2008)
(Supersedes 12/2007)

MegaSeal HSPC Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	F	G
Alkaline	E	E
Solvents	E	E
Salt solutions		
Acidic	G	VG
Neutral	E	E
Alkaline	E	E
Water	E	E

F-Fair G-Good VG-Very Good E-Excellent
This chart shows typical resistance of MegaSeal HSPC. Contact your sales representative for your specific requirements.

Surface Preparation

Coating performance is proportional to the degree of surface preparation. Concrete surfaces must be clean and dry and free of contaminants such as dust, dirt, grease, or oil.

New/Bare Concrete – Refer to SSPC-SP 13/NACE No. 6 surface preparation of concrete for detailed information regarding surface preparation of concrete. In general, concrete must have sufficient profile to achieve satisfactory adhesion of primer and topcoat. Concrete must be in sound condition and free of all coatings, curing compounds, oil and other contaminants. New concrete must cure a minimum of 28 days prior to application of any coatings.

Concrete can be abrasive blasted (ASTM D4259) or mechanically abraded to achieve a profile equal to 60 grit sandpaper or coarser. Moisture vapor transmission should be 3 lbs. or less over a 1000 sq. ft. area during a 24 hour period, measured and confirmed through a calcium chloride test. Concrete should have a minimum surface tensile strength of 300 PSI verified by a pull-off adhesion test. Slabs on grade that do not have an appropriate moisture barrier installed may be subject to seasonal moisture migration that can result in coating disbandment. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact your local sales representative for guidance. Consult the following ASTM methods: ASTM-4263 – plastic sheet method for checking moisture in concrete; ASTM 4258 standard practice for cleaning concrete; ASTM 4259 standard practice for abrading concrete; ASTM 4260 standard practice for etching concrete.

Previously Painted Concrete – Old coatings and concrete must be in sound condition. Surfaces must be clean and dry and free of all contaminants such as dust, dirt, grease, or oil. Old coatings must be uniformly abraded to achieve satisfactory adhesion. Apply a test patch to the abraded surface and allow to cure a minimum of one week before testing adhesion. If adhesion is poor, or if the old coatings are peeling, chipping, or are otherwise in poor condition, remove the coatings down to bare concrete and prepare the bare concrete as shown above.

Application Data

Applied over	Prepared concrete	
Surface Preparation	ASTM D4260 or 4259	
Method	Pour and spread – squeegee and backroll	
Mixing ratio (by volume)	1.6 parts resin to 1 part cure	
Environmental conditions		
Temperature	ºF	ºC
air	55 to 95	13 to 35
surface	55 to 95	13 to 35
material	55 to 95	13 to 35

Surface temperatures must be at least 5ºF (3ºC) above dew point to prevent condensation. Relative humidity must not exceed 85%.

Pot Life (mins.)	ºF/ºC		
	90/32	70/21	55/13
	15	30	45

Drying time (hours, @ 8 mils DFT, 50% RH)

	ºF/ºC		
	90/32	70/21	55/13
touch	4	5	7
through	18	24	48
full cure	7 days	7 days	10 days

Recoat/Topcoat time (hours, @ 8 mils DFT, 50% RH)

	ºF/ºC		
	90/32	70/21	55/13
Recoat/Topcoat, min	5	6	8
Recoat/Topcoat, max*	24	24	24

*Roughen surface if maximum recoat/topcoat time has been exceeded.

Application Equipment

The following is a guide. Adjustments in application equipment or technique may be necessary to accommodate varying field conditions.

Squeegee – Flat or notched rubber squeegee (depending upon DFT required) with EPDM rubber blade, available from manufacturers such as Midwest Rake Co.

Rollers – 3/8 inch lint-free roller with phenolic core for backrolling, and 7/16 inch sharp-tipped spiked roller for air release and leveling, available from manufacturers such as Midwest Rake Co.

Mixing

MegaSeal HSPC is a two-component coating. Stir resin thoroughly to disperse pigment before mixing with cure. Add cure to resin and mix slowly until uniformly blended. **Do not mix at high speed, air entrainment will occur**. MegaSeal HSPC is ready for use immediately after mixing resin and cure; no induction time is required. Do not mix more material than can be used within the working time: See pot life data. Material which has begun to set cannot be satisfactorily used and must be discarded. Surface temperatures must be at least 5ºF (3ºC) above dew point to prevent condensation.

Application Procedure

MegaSeal HSPC is packaged in the proper proportions which must be mixed together before use. **Mix full units only**.

Pour a substantial portion of mixed material onto floor in a long ribbon approximately 12 to 18 inches wide. Do not scrape or drain containers.

Using either a flat or notched rubber squeegee, spread the mixed material to a uniform thickness. Apply sufficient pressure to work the material into the porous surface.

Wet film thickness can be adjusted by varying the angle of the squeegee to the floor and by varying the amount of pressure applied.

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(Supersedes 12/2007)

As material is being spread with the squeegee, an applicator wearing spiked shoes should immediately backroll and crossroll the material with a clean, lint-free 3/8" roller. Finish by uniformly tipping off the surface with the roller in one direction, leaving 6-10 mils on the surface.

After 15 minutes set up time, the material should be rolled with a spiked roller to aid air release and improve appearance. Do not spike roll after 30 minutes.

If primer is to be topcoated with MegaSeal HDSL surfacer, sand or other suitable aggregate may be lightly broadcast over wet primer to aid the application of the surfacer by providing a grip for the surfacer and preventing the surfacer from sliding on the primed surface as it is troweled on.

If porosity or pinholes are evident after initial cure, an additional coat of MegaSeal HSPC may be necessary, especially on very porous concrete.

Shipping Data

Packaging unit	5 gal unit
cure	1.9 gal in 2 ½ gal can
resin	3.1 gal in 5 gal can

Shipping weight (approx)	lbs	kg
5-gal unit		
resin	31.0	14.1
cure	17.0	7.7

Shelf life when stored indoors at 40° to 100°F (4° to 38°C)
resin and cure 1 year from shipment date.

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of both components. Safety precautions must be strictly followed during storage, handling, and use.

This product is for industrial use only. Not for residential use.

Warranty

PPG warrants only its title to the products, and that the products will be set forth in the warranty statement, if any, on the products labeling or in the absence of any such warranty statement that the products will conform to PPG's applicable published specifications. PPG's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

PPG makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by PPG, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself f the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Due to PPG's policy of continuous product improvement, the information contained in this Product Data/Application Instructions sheet is subject to change without notice. It is the Buyer's responsibility to check that this issue is current prior to using the product. For the most up-to-date Product Data/Application Instructions always refer to the PPG Protective & Marine Coatings website at www.ppgpmc.com

Limitation of Liability

PPG's liability on any claim of any kind, including claims based upon PPG's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products, or part thereof which give rise to the claim. In no event shall PPG be liable for consequential or incidental damages.

PPG Protective & Marine Coatings

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99-127 (3/2008)
(Supersedes 12/2007)

AMERSHIELD™ VOC CLEAR

DESCRIPTION

Gloss Polyester Acrylic Clear Urethane

PRINCIPAL CHARACTERISTICS

- Tough and flexible coating
- Application direct to concrete
- Good chemical and stain resistance
- Resists graffiti
- Outstanding abrasion and impact resistance
- VOC Compliant for SCQAMD at < 100 g/L
- HAPs - free as supplied

COLOR AND GLOSS LEVEL

- Clear
- Gloss

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	63 ± 2%
VOC (Supplied)	max. 0.8 lb/US gal (approx. 97 g/l)
Recommended dry film thickness	2.0 - 3.0 mils (50 - 75 µm) depending on system
Theoretical spreading rate	505 ft²/US gal for 2.0 mils (12.6 m²/l for 50 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedure. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats
- Aged coatings may require abrading prior to applying this product

AMERSHIELD™ VOC CLEAR

Concrete

- Remove all surface contaminants such as oil, grease, and embedded chemicals
- Abrade the surface per ASTM D4259 to remove all chalk and surface glaze or laitance
- Mechanical surface preparation should expose sub-surface voids and provide a surface profile equivalent to 80 grit sandpaper or coarser
- Surface should be free from moisture in accordance with ASTM D4263. Refer to Information Sheet # 1496ACUS for further details regarding moisture measurements

Substrate temperature and application conditions

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C)
- With accelerator: Surface temperature during application should be between 32°F (0°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 40°F (4°C) and 110°F (43°C)
- With accelerator: Ambient temperature during application and curing should be between 32°F (0°C) and 110°F (43°C)
- Relative humidity during application and curing should not exceed 85%

SYSTEM SPECIFICATION

- Primers: Apply over existing Sigmadur, Pitthane, or Amercoat polyurethanes or direct-to-substrate in mild environments. Do not apply directly over epoxy primers in exterior applications as epoxies will chalk under the film. Do not apply to metal substrates in exterior, wet or corrosive environments.

INSTRUCTIONS FOR USE

Mixing ratio base to hardener: 3.35 to 1

- Pre-mix base component with a pneumatic air mixing at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 2-3 minutes until completely dispersed
- Mix at slower speeds to avoid whipping air into the paint

Pot life

1 hour at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

Application

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns
- Protect from moisture until dry through time is reached

Material temperature

Material temperature during application should be between 40°F (4°C) and 90°F (32°C)

AMERSHIELD™ VOC CLEAR

Air spray

- A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination
- Use standard conventional equipment

Recommended thinner
THINNER 21-85 (97-739 THINNER (to maintain less than 100 g/L)), THINNER 50-48 (AMERCOAT 923)

Volume of thinner
0 - 10%

Nozzle orifice
Approx. 0.070 in (1.8 mm)

Airless spray

- 28:1 pump or larger
- Can be applied with plural component equipment

Recommended thinner
THINNER 21-85 (97-739 THINNER (to maintain less than 100 g/L)), THINNER 50-48 (AMERCOAT 923)

Volume of thinner
0 - 10%

Nozzle orifice
0.013 – 0.015 in (approx. 0.33 – 0.38 mm)

Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

Recommended thinner
PPG 97-739 (to maintain less than 100 g/L), AMERCOAT 923

Cleaning solvent
AMERCOAT 12 Cleaner or thinner

AMERSHIELD™ VOC CLEAR

ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm)					
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	80°F (27°C)	90°F (32°C)
itself	Minimum	48 hours	16 hours	12 hours	8 hours
	Maximum	7 days	3 days	24 hours	12 hours

Overcoating interval with AMERCOAT 866 M accelerator for DFT up to 2.0 mils (51 µm)						
Overcoating with...	Interval	32°F (0°C)	50°F (10°C)	70°F (21°C)	80°F (27°C)	90°F (32°C)
itself	Minimum	16 hours	6 hours	2 hours	1.5 hours	1.5 hours
	Maximum	3 days	24 hours	12 hours	8 hours	6 hours

Curing time for DFT up to 2.0 mils (51 µm)		
Substrate temperature	Dry to touch	Dry to handle
50°F (10°C)	5 hours	3 days
70°F (21°C)	3.5 hours	24 hours
80°F (27°C)	3 hours	16 hours
90°F (32°C)	2 hours	10 hours

Curing time with AMERCOAT 866 M accelerator for DFT up to 2.0 mils (51 µm)		
Substrate temperature	Dry to touch	Dry to handle
32°F (0°C)	6 hours	24 hours
50°F (10°C)	2 hours	8 hours
70°F (21°C)	1 hour	3 hours
80°F (27°C)	45 minutes	2.5 hours
90°F (32°C)	30 minutes	2 hours

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	5 hours
70°F (21°C)	2.5 hours
90°F (32°C)	1.5 hours

AMERSHIELD™ VOC CLEAR

Pot life (at application viscosity): with AMERCOAT 866 M accelerator	
Mixed product temperature	**Pot life**
50°F (10°C)	2 hours
70°F (21°C)	1 hour
90°F (32°C)	30 minutes

DISCLAIMER

- For industrial or professional use only

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

PPG Protective & Marine Coatings
Bringing innovation to the surface.™

AMERSHIELD™ VOC CLEAR

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Packaging: Available in 0.87 gallon and 4.33-gallon kits

Product code	Description
AMV-0	Clear Base
AM-B	Hardener

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PPG Protective & Marine Coatings
Bringing innovation to the surface.™

PPG Protective & Marine Coatings

AMERSHIELD™

October 2012
Revision of April 2012

DESCRIPTION

Polyester-Acrylic Aliphatic Polyurethane Topcoat

PRINCIPAL CHARACTERISTICS

- Unique, high-solids, high build coatings
- Outstanding weather resistance with excellent color and gloss retention
- VOC compliant
- Tough, flexible, and abrasion resistant finish
- Good chemical and stain resistance
- Direct to metal and concrete in protected environments
- SSPC SP 36 Level 3

COLOR* AND GLOSS

Gloss

Custom Colors

* *Certain colors (especially yellow, orange and red) may require additional coats to achieve adequate hiding, particularly when applied over dark or contrasting primer colors. Yellow, red, and other bright colors will typically fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.*

BASIC DATA

Volume solids	73% ± 3%
VOC*	2.2 lbs/gal (264 g/L) * *For compliance with regulations which require < 100 g/L, Amershield VOC can be specified interchangeably*
Recommended Dry film thickness	3-6 mils per coat (75-150 microns)
Theoretical Spread Rate	@ 1 mils dft 1171 ft²/gal @ 5 mils dft 234 ft²/gal
Components	2
Dry Temperature Resistance*	Continuous — 200°F Intermittent — 250°F (<5% of the time, max 24 hours) * *Color will drift at elevated temperatures.*
Shelf Life	2 years from date of manufacture

SURFACE PREPARATION

Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to overcoating. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings may require abrading prior to applying *Amershield*.

Steel	– Abrasive blast to SSPC SP-6 or higher with a 1.0-3.0 mils surface profile
Aluminum	– Lightly abrasive blast with a fine abrasive
Concrete / Masonry	– See specific primer

ENVIRONMENTAL CONDITIONS

Ambient temperatures	40°F to 120°F (-6°C to 49°C) With *Amercoat* 866M Accelerator 32°F to 100°F (0°C to 36°C) Surface temperature must be at least 5°F above the dew point temperature.
Material temperatures	With *Amercoat* 866M Accelerator 40°F to 90°F (5°C to 32°C)
Relative humidity	85% maximum
Surface temperature	*Amershield* 40°F to 120°F (-6°C to 49°C) With *Amercoat* 866M Accelerator 32°F to 100°F (0°C to 36°C) Surface temperature must be at least 5°F above the dew point temperature.

General air quality

Area should be sheltered from airborne particulates and pollutants. Ensure good ventilation during application and curing. Provide shelter to prevent wind from affecting spray patterns.

INSTRUCTIONS FOR USE

Mixing ratio by volume

4 parts base to 1 part hardener

Pre-mix base component with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1-2 minutes until completely dispersed

Pot life

Temperature	50°F	70°F	90°F
Amershield	5 hours	2.5 hours	1.5 hours
Amershield with 866M accelerator	2 hours	1 hours	30 minutes

Airless spray

28:1 pump or larger, 0.013-0.015 fluid tip
Can be applied with plural component equipment

Air spray

Thin up to 20%, standard conventional equipment, 0.070" fluid orifice. A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination.

Brush & roll

Use a high quality natural bristle brush and / or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush / roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film build. *Amercoat* 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application. Multiple coats may be required to achieve proper film build and hiding with roller application.

Thinner

Amercoat 923, *Amercoat* 65 (xylene), *Amercoat* 101 (recommended for > 90 °F), *Amercoat* 911

Cleaning solvent

Amercoat 12 Cleaner or *Amercoat* 65 thinner (xylene)

Primers

Amercoat 68HS, *Amercoat* 68MCZ, *Amercoat* 370, *Amercoat* 385, *Amercoat* 399, *Amerlock* 2/400, *Pittguard* Epoxies, *Amercoat* 435, *Amercoat* 256

Safety precautions

For paint and recommended thinners see safety sheet 1430, 1431 and relevant material safety data sheets

This is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes.

DRY/CURE TIMES

Amershield @ 5 mils dft

	40°F	50°F	70°F	90°F
Dry to touch	8 hours	4 hours	2.5 hours	1 hour
Dry through	5 days	72 hours	10 hours	5 hours
Dry to recoat	72 hours	48 hours	8 hours	4 hours
Maximum recoat	168 hours	168 hours	96 hours	12 hours

Amershield with 866M Accelerator @ 5 mils dft

	20°F	32°F	50°F	70°F	90°F
Dry to touch	8 hours	4 hours	75 minutes	25 minutes	10 minutes
Dry through	16 hours	10 hours	6 hours	3 hours	2 hours
Dry to recoat	16 hours	8 hours	4 hours	2 hours	1.5 hours
Maximum recoat	96 hours	48 hours	24 hours	12 hours	6 hours

PRODUCT QUALIFICATIONS

- Compliant with USDA Incidental Food Contact Requirements
- Nuclear Service Level 2
- NFPA Class A Flame Spread

AVAILABILITY

Packaging	Available in 1-gallon and 5-gallon kits 1-gallon kits have 0.8 gallons of base and 0.2 gallons of hardener 5- gallon kits have 4 gallons of base and 1 gallon of hardener	
Product codes	AM -3	White base
	AM -9	Black base
	AM -T1	Deep Tint base*
	AM -T2	Light Tint base*
	AM -T3	Neutral Tint base*
	AM -T4	Red Tint base*
	AM -T5	High Hiding Yellow Tint base*
	AM -71	Safety Red base
	AM-81	Safety Yellow base
	AM-23	Pearl Gray base
	AM -B	Hardener (Part B)
	** Tintable using UCD V-Line colorants only.*	
Worldwide statement	While it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.	

WARRANTY STATEMENT

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product.

THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG.

Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATION OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT.

The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk.

PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

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Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

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AMERCOAT® 114 A

(Formerly Nu-Klad 114A; Also branded as Megaseal CF)

DESCRIPTION

Epoxy filler compound

PRINCIPAL CHARACTERISTICS

- Suitable for use on primed steel or direct to concrete/masonry
- Pit filler / seam sealer for steel
- Filler for bug holes and surface cracks in concrete
- Suitable as a masonry block filler / scratch coat
- Excellent chemical resistance

COLOR AND GLOSS LEVEL

- Offwhite

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	100%
VOC (Supplied)	max. 0.1 lb/US gal (approx. 15 g/l)
Theoretical spreading rate	1604 ft^2/US gal for 1.0 mils (40.0 m^2/l for 25 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

Notes:

- Flush with surrounding substrate to fill voids
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- 1.33 gallons in a 20-lb kit

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Steel

- Abrasive blast to SSPC SP-10 standards. Prepare surface in accordance with application instructions for the specific primer being used.

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AMERCOAT® 114 A

(Formerly Nu-Klad 114A; Also branded as Megaseal CF)

Concrete

- Cure concrete a minimum of 14 days and until 80 percent of its physical properties have been attained before applying this product
- Prepared surfaces according to ASTM D4258 (surface cleaning) and either ASTM D4259 (abrading), or ASTM D4260 (acid etching)
- Blow / vacuum cracks and bugholes free of loose particulates

Concrete block

- Walls must be laid plumb and square with flush joints. Do not rake joints
- All surfaces must be clean and dry as per ASTM D4261

Substrate temperature

- Surface temperature during application should be between 50°F (10°C) and 120°F (49°C)
- Substrate temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 50°F (10°C) and 120°F (49°C)
- Relative humidity during application should be between 0% and 85%

SYSTEM SPECIFICATION

- Primers: Direct to concrete or over epoxy sealer
- Primers to steel: AMERCOAT 68HS, AMERCOAT 68MCZ, AMERCOAT epoxies, AMERLOCK series
- Topcoats: AMERCOAT Epoxies, PITTGUARD Epoxies

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 65:35

- Pre-mix pigmented components with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1–2 minutes until completely dispersed
- Scrape sides and bottom occasionally to ensure all contents are incorporated. Mix only full kits

Induction time

None

Pot life

2.5 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

AMERCOAT® 114 A

(Formerly Nu-Klad 114A; Also branded as Megaseal CF)

Application

- Amercoat 114A can be applied via short nap roller, trowel, putty knives, squeegee, or a combination of these methods. Spread 114A across the surface applying uniform pressure to achive a smooth finish. Leave only a slight film above the surface plane.
- A rounded trowel can be used to form a cove based of up to 1 inch.
- Amercoat 114A may be used to fill surface voids up to 1" in width or depth.
- Amercoat 114A is not elastomeric and will not bridge dynamic cracks.
- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Bulletin #1489 for further information on prevention, detection, and removal of amine blush

Material temperature

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)

Cleaning solvent

Amercoat 12 Cleaner (Thinner 90-58) or Amercoat 65 Thinner (Thinner 21-06)

ADDITIONAL DATA

Overcoating interval for DFT up to 5.0 mils (125 µm)				
Overcoating with...	**Interval**	**50°F (10°C)**	**70°F (21°C)**	**90°F (32°C)**
solvent-borne coatings	Minimum	36 hours	18 hours	9 hours
	Maximum	30 days	7 days	3 days
solvent-free epoxies	Minimum	6 hours	3 hours	1 hour
	Maximum	6 days	3 days	36 hours

Notes:

- Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window
- Surface must be clean and dry. Any contamination must be identified and removed. Particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods. If maximum recoat/topcoat time is exceeded, then roughen surface

AMERCOAT® 114 A

(Formerly Nu-Klad 114A; Also branded as Megaseal CF)

Curing time for DFT up to 5.0 mils (125 µm)	
Substrate temperature	Dry to handle
50°F (10°C)	36 hours
70°F (21°C)	18 hours
90°F (32°C)	9 hours

Note: Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	4 hours
70°F (21°C)	2.5 hours
90°F (32°C)	1 hour

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- NFPA Class A for Flame Spread and Smoke Development
- Nuclear Service Level 2 (partial)

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

PPG Protective & Marine Coatings
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AMERCOAT® 114 A

(Formerly Nu-Klad 114A; Also branded as Megaseal CF)

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

Packaging: Available in 20-lb (1.33. gallons) and 3-lb kits (0.2 gallons)

Product code	Description
AT114-35	Epoxy Base
AT114-B	Hardener

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APPENDIX B
AIR SAMPLE COLLECTION FORMS
(PROVIDED ELECTRONICALLY ON CD)

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Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** B774

Site No. : B774 **Site Name :** GAFB

Date: 03.21.18 **Time:** 13:50

Structure Address : 454 Phoenix Dr. Rome, NY 13441

Preparer's Name & Affiliation : Josh Cranlund · Parsons/Bhate

Residential ? ☐ Yes ☑ No **Owner Occupied ?** ☐ Yes ☑ No **Owner Interviewed ?** ☐ Yes ☑ No

Commercial ? ☑ Yes ☐ No **Industrial ?** ☐ Yes ☑ No **Mixed Uses ?** ☐ Yes ☑ No

Identify all non-residential use(s) : General office Space

Owner Name : GLDC-Griffiss Land Development Corporation **Owner Phone :** (315) 338 - 0393

Secondary Owner Phone : ( ) -

Owner Address (if different) : 584 Phoenix Dr. Rome, NY 13441

Occupant Name : BAE Systems **Occupant Phone :** ( ) -

Secondary Occupant Phone : ( ) -

Number & Age of All Persons Residing at this Location : N/A

Additional Owner/Occupant Information :

Describe Structure (style, number floors, size) : 1 floor office building

Approximate **Year Built :** Is the building **Insulated?** ☑ Yes ☐ No

Lowest level : ☑ Slab-on-grade ☐ Basement ☐ Crawlspace

Describe Lowest Level (finishing, use, time spent in space) : General office Space

Floor Type: ☑ Concrete Slab ☐ Dirt ☐ Mixed :

Floor Condition : ☑ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps/Drains? ☑ Yes ☐ No Describe : Sump in electrical room

Identify other floor penetrations & details : Vapor monitoring points

Wall Construction : ☑ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : Vents for HVAC and utilities

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : N/A

Heating Fuel : ☐ Oil ☐ Gas ☐ Wood ☐ Electric ☑ Other : Steam

Heating System : ☑ Forced Air ☐ Hot Water ☐ Other :

Hot Water System : ☐ Combustion ☐ Electric ☐ Boilermate ☐ Other:

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer **vented** to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : Cold air return on roof

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : Exhaust fans on roof

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Soil Vapor Intrusion - Structure Sampling Building Questionnaire Structure ID : B174

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

Inc. None Underlying impacted soils currently being remediated

Attached garage ? ☐ Yes ☑ No Air fresheners ? ☐ Yes ☑ No

New carpet or furniture ? ☐ Yes ☑ No What/Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☑ No Where ? : _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☑ No Describe : _____

Last time **Dry Cleaned** fabrics brought in ? Unknown What / Where ? _____

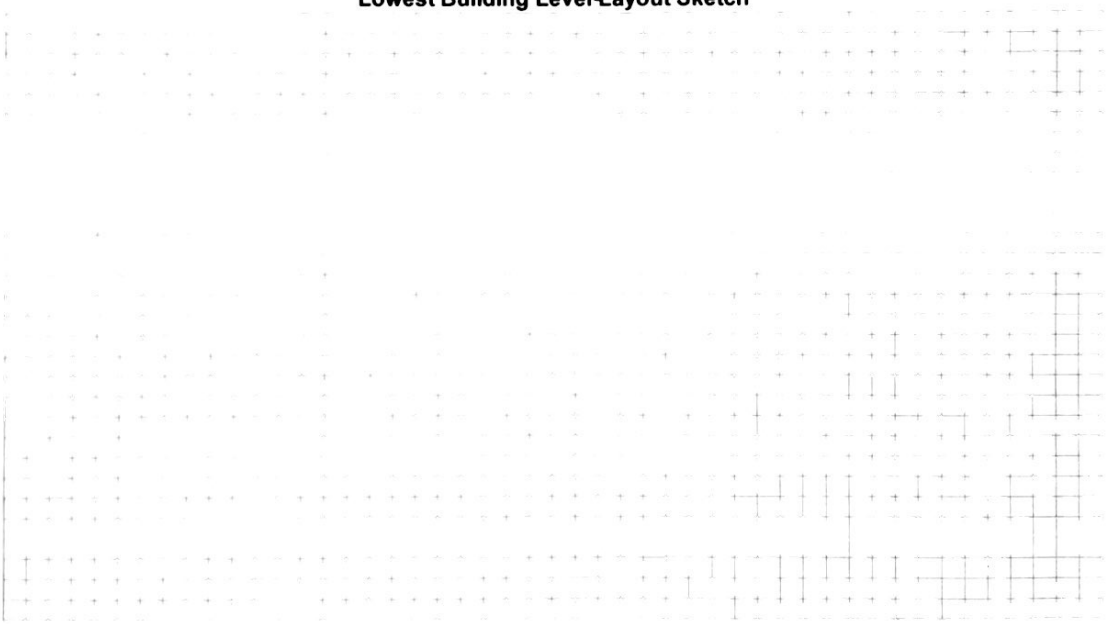
Do any building occupants use solvents at work ? ☐ Yes ☑ No Describe : _____

Any testing for Radon ? ☐ Yes ☐ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☑ Yes ☐ No If yes, describe below

Soil Vapor extraction System running System powered down 3/16/2018 prior to sampling

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

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Structure Sampling - Product Inventory

Homeowner Name & Address: 584 Phoenix Dr. Rome, NY 13441

Samplers & Company: JC/SL - Parsons/Bhate

Site Number & Name: B774

Make & Model of PID: —

Date: 03.21.18

Structure ID: B774

Phone Number: 315-338-0393

Date of PID Calibration: _____

Identify any Changes from Original Building Questionnaire : _____

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location

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Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** B776

Site No. : B776 **Site Name :** GAFB

Date: 03.21.18 **Time:** 13:40

Structure Address : 474 Phoenix Dr. Rome, NY 13441

Preparer's Name & Affiliation : Josh Cronlund - Parsons / Bhate

Residential ? ☐ Yes ☑ No **Owner Occupied ?** ☐ Yes ☑ No **Owner Interviewed ?** ☐ Yes ☑ No

Commercial ? ☑ Yes ☐ No **Industrial ?** ☐ Yes ☑ No **Mixed Uses ?** ☐ Yes ☑ No

Identify all non-residential use(s) : General office Space

Owner Name : GLDC - Griffiss Land Development Corporation **Owner Phone :** (315) 338 - 0393

Secondary Owner Phone : ( ) -

Owner Address (if different) : 584 Phoenix Dr. Rome, NY 13441

Occupant Name : Peraton **Occupant Phone :** ( ) -

Secondary Occupant Phone : ( ) -

Number & Age of All Persons Residing at this Location : N/A

Additional Owner/Occupant Information :

Describe Structure (style, number floors, size) : 1 floor office building

Approximate **Year Built :** **Is the building Insulated?** ☑ Yes ☐ No

Lowest level : ☑ Slab-on-grade ☐ Basement ☐ Crawlspace

Describe Lowest Level (finishing, use, time spent in space) : General office Space

Floor Type: ☑ Concrete Slab ☐ Dirt ☐ Mixed

Floor Condition : ☑ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps/Drains? ☑ Yes ☐ No Describe : Sump in electrical Room

Identify other floor penetrations & details : Vapor monitoring points

Wall Construction : ☑ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : Vents for HVAC and utilities

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : N/A

Heating Fuel : ☐ Oil ☐ Gas ☐ Wood ☐ Electric ☑ Other : Steam

Heating System : ☑ Forced Air ☐ Hot Water ☐ Other :

Hot Water System : ☐ Combustion ☐ Electric ☑ Boilermate ☐ Other:

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer **vented** to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : Cold air Return Vents on roof

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : Exhaust fans on roof

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Structure ID : B776

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

SVE ~~None~~ Underlying impacted soils currently being remediated

Attached garage ? ☐ Yes ☑ No Air fresheners ? ☐ Yes ☑ No

New carpet or furniture ? ☐ Yes ☑ No What/Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☑ No Where ? : _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☑ No Describe : _____

Last time **Dry Cleaned** fabrics brought in ? Unknown What / Where ? _____

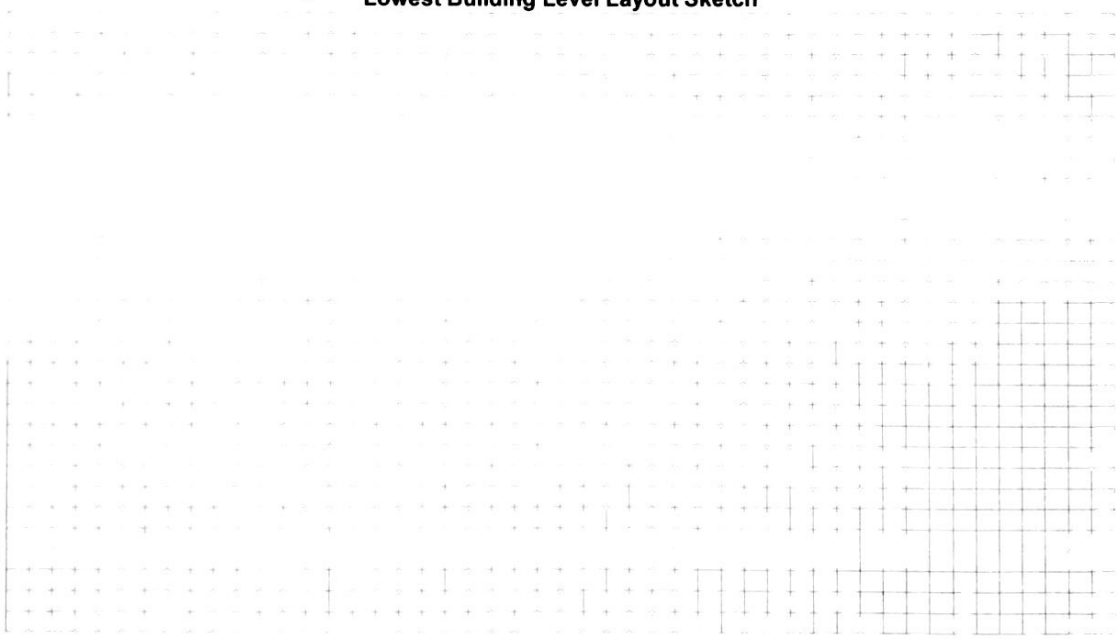
Do any building occupants use solvents at work ? ☐ Yes ☑ No Describe : _____

Any testing for Radon ? ☐ Yes ☐ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☑ Yes ☐ No If yes, describe below

Soil Vapor extraction System running System powered down 3/16/2018 prior to sampling

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

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Structure Sampling - Product Inventory

Homeowner Name & Address: GLDC - 584 Phoenix Dr. Rome, NY 13441 Date: 03.21.18

Samplers & Company: JC/SL - Parsons / Bhate Structure ID: B776

Site Number & Name: B776 Phone Number: 315-338-0393

Make & Model of PID: _____ Date of PID Calibration: _____

Identify any Changes from Original Building Questionnaire : _____

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location

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Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** B785

Site No. : B785 **Site Name :** GAFB

Date: 03.21.18 **Time:** 14:30

Structure Address :

Preparer's Name & Affiliation : Josh Crawlund - Parsons/Bhate

Residential ? ☐ Yes ☑ No **Owner Occupied ?** ☐ Yes ☑ No **Owner Interviewed ?** ☐ Yes ☑ No

Commercial ? ☑ Yes ☐ No **Industrial ?** ☐ Yes ☑ No **Mixed Uses ?** ☐ Yes ☑ No

Identify all non-residential use(s) : Open hangar and office space (commercial)

Owner Name : Griffiss Airport **Owner Phone :** ( ) -

Secondary Owner Phone : ( ) -

Owner Address (if different) :

Occupant Name : Occupancy **Occupant Phone :** ( ) -

Secondary Occupant Phone : ( ) -

Number & Age of All Persons Residing at this Location : N/A

Additional Owner/Occupant Information :

Describe Structure (style, number floors, size) : Open Hangar

Approximate **Year Built** : Is the building **Insulated?** ☐ Yes ☑ No

Lowest level : ☑ Slab-on-grade ☐ Basement ☐ Crawlspace

Describe Lowest Level (finishing, use, time spent in space) : Open Hangar and commercial office space

Floor Type: ☑ Concrete Slab ☐ Dirt ☐ Mixed :

Floor Condition : ☑ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps/Drains? ☐ Yes ☑ No Describe :

Identify other floor penetrations & details : Soil gas monitoring points

Wall Construction : ☐ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : various ventilation points / hangar Doors

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : Water collected in one Soil vapor monitoring well; water stains on floor: Source unknown

Heating Fuel : ☐ Oil ☐ Gas ☐ Wood ☑ Electric ☐ Other :

Heating System : ☐ Forced Air ☐ Hot Water ☑ Other : Radiant Heat

Hot Water System : ☐ Combustion ☑ Electric ☐ Boilermate ☐ Other:

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer **vented** to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : outside

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) :

Large ceiling fans

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Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):
Underlying impacted soils currently being remediated

Attached garage ? ☐ Yes ☑ No Air fresheners ? ☐ Yes ☑ No

New carpet or furniture ? ☑ Yes ☐ No What/Where ? Office furniture in office space

Recent **painting** or **staining** ? ☑ Yes ☐ No Where ? : _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☑ No Describe : _____

Last time **Dry Cleaned** fabrics brought in ? Unknown What / Where ? _____

Do any building occupants use solvents at work ? ☐ Yes ☑ No Describe : _____

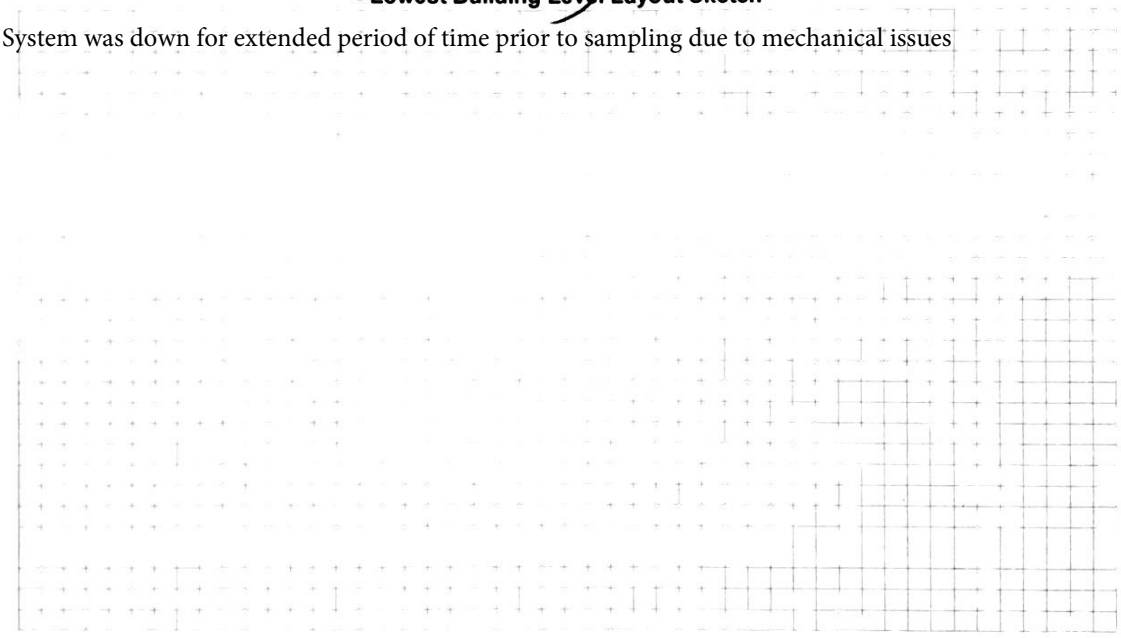
Any testing for Radon ? ☐ Yes ☑ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☑ Yes ☐ No If yes, describe below

Soil vapor extraction system running See note below:

Lowest Building Level Layout Sketch

System was down for extended period of time prior to sampling due to mechanical issues



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

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Structure Sampling - Product Inventory

Homeowner Name & Address: Griffiss Airport

Date: 03.21.18

Samplers & Company: JC/SL - Parsons/Bhate

Structure ID: B785

Site Number & Name: B785

Phone Number: _____

Make & Model of PID: —

Date of PID Calibration: _____

Identify any Changes from Original Building Questionnaire : _____

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
Stride Citrus Neutral Cleaner (Floor cleaned during day)	unk.	Alcohol ethoxylates		Floor

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Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** B786

Site No. : B786 **Site Name :** GAFB

Date: 03.21.18 **Time:** 14:09

Structure Address :

Preparer's Name & Affiliation : Josh Crawlund - Parsons/Bhate

Residential ? ☐ Yes ☑ No **Owner Occupied ?** ☐ Yes ☑ No **Owner Interviewed ?** ☑ Yes ☑ No

Commercial ? ☑ Yes ☐ No **Industrial ?** ☐ Yes ☑ No **Mixed Uses ?** ☐ Yes ☑ No

Identify all non-residential use(s) : Open hangar

Owner Name : Griffiss Airport **Owner Phone :** ( ) -

Secondary Owner Phone : ( ) -

Owner Address (if different) :

Occupant Name : 0 occupancy **Occupant Phone :** ( ) -

Secondary Occupant Phone : ( ) -

Number & Age of All Persons Residing at this Location : N/A

Additional Owner/Occupant Information :

Describe Structure (style, number floors, size) : Open Hangar

Approximate **Year Built :** **Is the building Insulated?** ☐ Yes ☑ No

Lowest level : ☑ Slab-on-grade ☐ Basement ☐ Crawlspace

Describe Lowest Level (finishing, use, time spent in space) : Open Hangar

Floor Type: ☑ Concrete Slab ☐ Dirt ☐ Mixed :

Floor Condition : ☑ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps/Drains? ☐ Yes ☑ No Describe :

Identify other floor penetrations & details : Vapor monitoring points, ground water monitoring wells

Wall Construction : ☑ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : Exhaust vents and utilities

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : N/A

Heating Fuel : ☐ Oil ☐ Gas ☐ Wood ☑ Electric ☐ Other :

Heating System : ☐ Forced Air ☐ Hot Water ☑ Other : Radiant heat

Hot Water System : ☐ Combustion ☑ Electric ☐ Boilermate ☐ Other:

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer **vented** to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : Outside

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) :

Large ceiling fans

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Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** B786

Describe factors that may affect Indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

Underlying impacted soils currently being remediated

Attached garage ? ☐ Yes ☑ No Air fresheners ? ☐ Yes ☑ No

New carpet or furniture ? ☐ Yes ☑ No What/Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☑ No Where ? : _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☑ No Describe : _____

Last time **Dry Cleaned** fabrics brought in ? Unknown What / Where ? _____

Do any building occupants use solvents at work ? ☐ Yes ☑ No Describe : _____

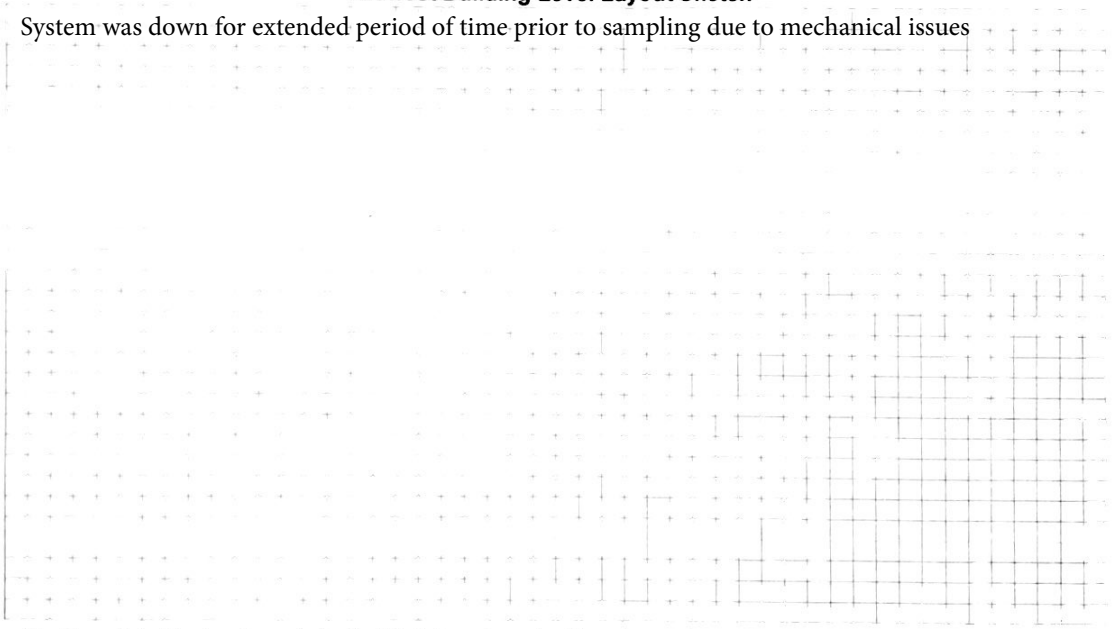
Any testing for Radon ? ☐ Yes ☑ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☑ Yes ☐ No If yes, describe below

Soil vapor extraction system running See note below:

Lowest Building Level Layout Sketch

System was down for extended period of time prior to sampling due to mechanical issues



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Scanned by CamScanner

Structure Sampling - Product Inventory

Homeowner Name & Address: GLDC - 584 Phoenix Dr. Rome NY 13441 Date: 3.21.18

Samplers & Company: JC/SL · Parsons/Bhate Structure ID: B786

Site Number & Name: B786 Phone Number: _____

Make & Model of PID: — Date of PID Calibration: _____

Identify any Changes from Original Building Questionnaire : _____

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location

Scanned by CamScanner

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3.13.18~~ TIME: 0905 – 1655

SAMPLE IDENTIFICATION: 785-VMP-2_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JL

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · (Yes) · No TRACER GAS CONC. (%): -

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN-3400453 REG-7367

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -4"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: SUN P. CLOUDY

Outdoor temperature: 20-22° 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3.13.18~~ TIME: 0905 - 1655

SAMPLE IDENTIFICATION: 785-VMP-2_0318-a

SAMPLE DEPTH: -

FIELD PERSONNEL: SL / JL

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · (Yes) · No TRACER GAS CONC. (%): SEE PAIM. SAMPLE SHEET

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN-3400 1433 REG-7306

VACUUM BEFORE SAMPLING: -29"

VACUUM AFTER SAMPLING: -4"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3.13.18~~ TIME: 0905 - 1700

SAMPLE IDENTIFICATION: 785-VMP-4-0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL / SL

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): -

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN-3400408 REG-8532

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -4"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

~~STAINS~~ NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3.13.18~~ TIME: 0915 - 1705

SAMPLE IDENTIFICATION: 785-VMP-5_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 8296 REG - 8531

VACUUM BEFORE SAMPLING: -28"

VACUUM AFTER SAMPLING: -4"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. Cloudy

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

INDOOR/OUTDOOR AIR MONITORING FORM

DATE: 03.21.18 ~~3-13-18~~ TIME: 0900 - 1645

SAMPLE IDENTIFICATION: 785-IA-1_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/SC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TYPE OF SAMPLE: · (INDOOR) · OUTDOOR

DURATION OF AIR SAMPLING: -

VOLUME OF AIR SAMPLED: 6L

SUMMA CANISTER/REGULATOR ID: CAN-3400145I REG-8853

VACUUM BEFORE SAMPLING: -26"

VACUUM AFTER SAMPLING: -1"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

NO.

VOCs used during normal operations of facility:

NONE

Weather conditions: Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

INDOOR/OUTDOOR AIR MONITORING FORM

DATE: 03.21.18 ~~3-13-18~~ TIME: 0915 - 1705

SAMPLE IDENTIFICATION: 785-OA-1_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JL

INSTRUMENTS (model and serial number):

PUMP: _____

CGI: _____

TYPE OF SAMPLE: · INDOOR · OUTDOOR

DURATION OF AIR SAMPLING: _____

VOLUME OF AIR SAMPLED: 6L

SUMMA CANISTER/REGULATOR ID: CAN-3400559 REG-7190

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -4"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · Yes · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · Yes · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: ~~3.13.18~~ 03.21.18 TIME: 0845 – 1630

SAMPLE IDENTIFICATION: 786-VMP-1-0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JL

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: ~~Code~~ -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 3400789 REG - 7143

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: _____

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

WELL CASING HAS WATER IN IT – IRON STAINED

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3-13-18~~ TIME: 0850 - 1635

SAMPLE IDENTIFICATION: 786-VMP-2_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JL

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 7960 REG - 7300

VACUUM BEFORE SAMPLING: -29

VACUUM AFTER SAMPLING: -2

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 27°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3.15.18~~ TIME: 0841 - 1625

SAMPLE IDENTIFICATION: 786 VMP-3-0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: _____

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN-8240 REG-7381

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -6"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

INDOOR/OUTDOOR AIR MONITORING FORM

DATE: 03.21.18 ~~3-13-18~~ TIME: 0840 – 1625

SAMPLE IDENTIFICATION: 786-IA-1_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JL

INSTRUMENTS (model and serial number):

PUMP: —

CGI: —

TYPE OF SAMPLE: · (INDOOR) · OUTDOOR

DURATION OF AIR SAMPLING:

VOLUME OF AIR SAMPLED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 3400 2114 RG- 8857

VACUUM BEFORE SAMPLING: -27"

VACUUM AFTER SAMPLING: -5"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

~~NONE~~

VOCs used during normal operations of facility:

NONE

Weather conditions: Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 65°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: ~~3.13.18~~ 3.21.18 TIME: 0735 - 1535

SAMPLE IDENTIFICATION: 776-VMP-1_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: _____

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 34000279 RG - 8858

VACUUM BEFORE SAMPLING: -29"

VACUUM AFTER SAMPLING: -2

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: ~~3.13.18~~ 3.21.18 TIME: 0730 - 1535

SAMPLE IDENTIFICATION: 776-VMP-2_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/SC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN- 3400159 REG- 7374

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -5

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. Cloudy

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 03.21.18 ~~3.13.18~~ TIME: 0730 - 1535

SAMPLE IDENTIFICATION: 776-VMP-2_0318 -a

SAMPLE DEPTH: -

FIELD PERSONNEL: SC/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI:

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%):

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN- 3400 2158 REG - 0859

VACUUM BEFORE SAMPLING: -29"

VACUUM AFTER SAMPLING: -3

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: ~~3.15.18~~ 3.21.18 TIME: 0740 - 1540

SAMPLE IDENTIFICATION: 776-VMP-3-0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAS-8279 MFC-7257

VACUUM BEFORE SAMPLING: -29

VACUUM AFTER SAMPLING: -4

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

Dry

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. Cloudy

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

INDOOR/OUTDOOR AIR MONITORING FORM

DATE: 3.21.18 ~~3.13.18~~ TIME: 0735 - 1535

SAMPLE IDENTIFICATION: 776-IA-1_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: _____

TYPE OF SAMPLE: · (INDOOR) · OUTDOOR

DURATION OF AIR SAMPLING: -

VOLUME OF AIR SAMPLED: 6 L

SUMMA CANISTER/REGULATOR ID: CAN - 34000881 REG - 8923

VACUUM BEFORE SAMPLING: -29

VACUUM AFTER SAMPLING: -1

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

Dry

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

INDOOR/OUTDOOR AIR MONITORING FORM

DATE: 03.21.18 ~~3.13.18~~ TIME: 0820 — 1605

SAMPLE IDENTIFICATION: 776 - OA - 1 - 0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JL

INSTRUMENTS (model and serial number):

PUMP: -

CGI: _____

TYPE OF SAMPLE: · INDOOR · OUTDOOR

DURATION OF AIR SAMPLING: _____

VOLUME OF AIR SAMPLED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 3400566 REG - 8669

VACUUM BEFORE SAMPLING: - 29"

VACUUM AFTER SAMPLING: 0

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: ~~3.13.18~~ 3.21.18 TIME: 0900 – ~~1535~~ 1600

SAMPLE IDENTIFICATION: 774VMP-1_0318

SAMPLE DEPTH: –

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: –

CGI: –

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: –

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 3400012 REG - 7652

VACUUM BEFORE SAMPLING: -28"

VACUUM AFTER SAMPLING: -3

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: ~~3.13.18~~ 3.21.18 TIME: 0810 - 1555

SAMPLE IDENTIFICATION: 774VMP-2_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL / JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: _____

TRACER GAS VERIFIED: · (Yes) · No TRACER GAS CONC. (%): _____

SAMPLE PURGE VOLUME: —

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN- 34000021 REG - 8134

VACUUM BEFORE SAMPLING: -29"

VACUUM AFTER SAMPLING: -4"

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

SUB-SLAB VAPOR PROBE MONITORING FORM

DATE: 3.21.18 ~~3.13.18~~ TIME: 0815 - 1600

SAMPLE IDENTIFICATION: 774-VMP-3_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL / JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: -

TRACER GAS VERIFIED: · Yes · (No) TRACER GAS CONC. (%): -

SAMPLE PURGE VOLUME: -

VOLUME OF SOIL VAPOR EXTRACTED: 6L

SUMMA CANISTER/REGULATOR ID: CAN- 8241 REG- 4629

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -4

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DM

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: P. CLOUDY

Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: NONE

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

INDOOR/OUTDOOR AIR MONITORING FORM

DATE: 3.21.18 ~~3.13.18~~ TIME: 0815 - 1600

SAMPLE IDENTIFICATION: 774-IA-1_0318

SAMPLE DEPTH: -

FIELD PERSONNEL: SL/JC

INSTRUMENTS (model and serial number):

PUMP: -

CGI: _____

TYPE OF SAMPLE: · (INDOOR) · OUTDOOR

DURATION OF AIR SAMPLING: _____

VOLUME OF AIR SAMPLED: 6L

SUMMA CANISTER/REGULATOR ID: CAN - 34000342 REG - 8863

VACUUM BEFORE SAMPLING: -30"

VACUUM AFTER SAMPLING: -5

APPARENT MOISTURE CONTENT: (DRY/MOIST/SATURATED/ETC.)

DRY

Comments/Observations during sampling (spills, floor stains, odors, other instrument readings):

NONE

VOCs used during normal operations of facility:

NONE

Weather conditions: Outdoor temperature: 22°

Barometric pressure: 29.88"

Precipitation: P. CLOUDY

Ventilation conditions: ACTIVE HVAC

Heating System Active? · (Yes) · No Indoor Air Temp: 70°

Location in relation to sample location: CEILING

Windows Closed? · (Yes) · No

APPENDIX C
LABORATORY DATA PACKAGES
(PROVIDED ELECTRONICALLY ON CD)

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ANALYTICAL REPORT

Job Number: 320-37345-1

Job Description: Griffiss AFB, NY - 774-776 785-786

For:
Bhate Environmental
445 Union Blvd Ste.129
Lakewood, CO 80226

Attention: Marcia Olive

Approved for release.
Stephanie K Rothmeyer
Project Manager I
4/12/2018 11:08 AM

Stephanie K Rothmeyer, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0182
stephanie.rothmeyer@testamericainc.com
04/12/2018

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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Definitions/Glossary

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.
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: Bhate Environmental

Project: Griffiss AFB, NY - 774-776 785-786

Report Number: 320-37345-1

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 3/22/2018 at 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

VOLATILE ORGANIC COMPOUNDS IN AMBIENT AIR
Samples 774VMP-1_0318 (320-37345-1), 774VMP-2_0318 (320-37345-2), 774VMP-3_0318 (320-37345-3), 776VMP-1_0318 (320-37345-5), 776VMP-2_0318 (320-37345-6), 776VMP-2_0318-a (320-37345-7), 776VMP-3_0318 (320-37345-8), 776OA-1_0318 (320-37345-10), 785VMP-2_0318 (320-37345-11), 785VMP-2_0318-a (320-37345-12), 785VMP-4_0318 (320-37345-13), 785VMP-5_0318 (320-37345-14), 786VMP-1_0318 (320-37345-16), 786VMP-2_0318 (320-37345-17), 786VMP-3_0318 (320-37345-18), 785OA-1_0318 (320-37345-20) and 774776INF_0318 (320-37345-21) were analyzed for volatile organic compounds in ambient air in accordance with TO-15. The samples were analyzed on 04/04/2018, 04/05/2018 and 04/06/2018.

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

VOLATILE ORGANIC COMPOUNDS (GC/MS SIM)
Samples 774IA-1_0318 (320-37345-4), 776IA-1_0318 (320-37345-9), 785IA-1_0318 (320-37345-15) and 786IA-1_0318 (320-37345-19) were analyzed for Volatile Organic Compounds (GC/MS SIM) in accordance with TO15_SIM_DOD5. The samples were analyzed on 04/10/2018.

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

Detection Summary

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Client Sample ID: 774VMP-1_0318 — Lab Sample ID: 320-37345-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.5	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
Acetone	21		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.53	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	1.5	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.8	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.49	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
Toluene	0.77	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	8.4		4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 774VMP-2_0318 — Lab Sample ID: 320-37345-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.2	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
Acetone	21		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.55	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.8	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.40	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.58	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.48	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
Toluene	1.1	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.66	J M	4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	9.1		4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 774VMP-3_0318 — Lab Sample ID: 320-37345-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.9	J	12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.47	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	2.4		1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Methylene Chloride	23		1.4	0.25	ug/m3	1		TO-15	Total/NA
Toluene	0.42	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	46		4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 774IA-1_0318 — Lab Sample ID: 320-37345-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.44		0.16	0.032	ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.41		0.13	0.031	ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	0.071	J	0.079	0.020	ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.37	J	0.69	0.17	ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.080	J	0.14	0.068	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	0.11		0.11	0.027	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: 776VMP-1_0318 — Lab Sample ID: 320-37345-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.3	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	3.3	0.55	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 776VMP-1_0318 (Continued) — Lab Sample ID: 320-37345-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	51		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.64	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloroform	0.52	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.9	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.33	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.52	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.78	J M	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.30	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Styrene	0.29	J	1.7	0.25	ug/m3	1		TO-15	Total/NA
Toluene	1.2	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 776VMP-2_0318 — Lab Sample ID: 320-37345-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.7		2.4	0.59	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.7	J	3.3	0.55	ug/m3	1		TO-15	Total/NA
Acetone	55		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.62	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloroform	0.58	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	1.5	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.33	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.64	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.75	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.34	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Styrene	0.41	J	1.7	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.40	J	2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	1.3	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 776VMP-2_0318-a — Lab Sample ID: 320-37345-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.3	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.5	J	3.3	0.55	ug/m3	1		TO-15	Total/NA
Acetone	53		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.61	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloroform	0.53	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	1.4	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.59	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
Toluene	1.1	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 776VMP-3_0318 — Lab Sample ID: 320-37345-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.9		2.4	0.59	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 776VMP-3_0318 (Continued) — Lab Sample ID: 320-37345-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	76		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.36	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chlorobenzene	0.46	J	1.4	0.29	ug/m3	1		TO-15	Total/NA
Chloroform	0.46	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	0.88	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.0		1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.41	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.4	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.42	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Styrene	1.5	J	1.7	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	100		2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.77	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	27		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 776IA-1_0318 — Lab Sample ID: 320-37345-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.48		0.16	0.032	ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.42		0.13	0.031	ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	1.2		0.079	0.020	ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.38	J	0.69	0.17	ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.17		0.14	0.068	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	0.13		0.11	0.027	ug/m3	1		TO-15 SIM	Total/NA
1,4-Dioxane	0.062	J	0.36	0.036	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: 776OA-1_0318 — Lab Sample ID: 320-37345-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.2	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
Acetone	8.3	J	12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.49	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	1.6	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.9	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.52	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
Toluene	0.53	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 785VMP-2_0318 — Lab Sample ID: 320-37345-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.1	J	3.9	0.80	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.7		2.4	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.47	J	1.6	0.36	ug/m3	1		TO-15	Total/NA
Acetone	13		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.71	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	2.5		1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.7	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.30	J	1.7	0.27	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 785VMP-2_0318 (Continued) — Lab Sample ID: 320-37345-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.45	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.48	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Toluene	0.93	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	13		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 785VMP-2_0318-a — Lab Sample ID: 320-37345-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.94	J	3.9	0.80	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.6		2.4	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.41	J	1.6	0.36	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.1	J	3.9	0.92	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.49	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	2.2		1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.8	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.35	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.91	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.45	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Toluene	0.89	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	13		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 785VMP-4_0318 — Lab Sample ID: 320-37345-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	J M	6.1	1.2	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	4.5		3.9	0.80	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.5	J	3.9	0.61	ug/m3	1		TO-15	Total/NA
Acetone	25		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.56	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.53	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.47	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.5	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.94	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Toluene	0.97	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 785VMP-5_0318 — Lab Sample ID: 320-37345-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J	12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.47	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Chloromethane	0.89	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.6	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.27	J	1.7	0.27	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 785VMP-5_0318 (Continued) — Lab Sample ID: 320-37345-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.2	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.46	J M	3.5	0.43	ug/m3	1		TO-15	Total/NA
Styrene	0.59	J	1.7	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.35	J	2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.72	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.97	J	4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 785IA-1_0318 — Lab Sample ID: 320-37345-15

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.52		0.16	0.032	ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.34		0.13	0.031	ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.52	J	0.69	0.17	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	0.029	J M	0.11	0.027	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: 786VMP-1_0318 — Lab Sample ID: 320-37345-16

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.1		1.6	0.35	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	49		3.9	0.80	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	29		3.9	0.61	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		2.4	0.59	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	19	M	3.9	0.92	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.5		3.3	0.55	ug/m3	1		TO-15	Total/NA
Acetone	41		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	3.8		1.3	0.25	ug/m3	1		TO-15	Total/NA
Butadiene	4.7		1.8	0.34	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.1		2.5	0.47	ug/m3	1		TO-15	Total/NA
Chloroform	0.85	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	2.2		1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.7	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	32		1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.56	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	160		3.5	0.43	ug/m3	1		TO-15	Total/NA
Naphthalene	9.1	J	10	2.9	ug/m3	1		TO-15	Total/NA
o-Xylene	89		1.7	0.23	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	5.3		2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	8.2		1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	89		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.1	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 786VMP-2_0318 — Lab Sample ID: 320-37345-17

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	9.8		1.6	0.35	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	3.9	J	6.1	1.2	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.0	J	3.9	0.80	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.1	J	3.9	0.61	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.6	J	2.4	0.59	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 786VMP-2_0318 (Continued) — Lab Sample ID: 320-37345-17

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
4-Ethyltoluene	0.97	J M	3.9	0.92	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.64	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	0.49	J	2.0	0.44	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.2		2.5	0.47	ug/m3	1		TO-15	Total/NA
Chloroform	27		1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	1.7		1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.5		1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.49	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	33		3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	11		1.7	0.23	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.2	J	2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.77	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	200		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	3.2	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 786VMP-3_0318 — Lab Sample ID: 320-37345-18

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.66	J	1.6	0.35	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	7.0		2.4	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	1.6		1.6	0.36	ug/m3	1		TO-15	Total/NA
Acetone	21		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.49	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Carbon disulfide	24		2.5	0.47	ug/m3	1		TO-15	Total/NA
Chloroform	0.49	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	0.84	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.5	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.29	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.42	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.1	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.52	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.9		2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.55	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	40		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 786IA-1_0318 — Lab Sample ID: 320-37345-19

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.40		0.16	0.032	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	0.035	J	0.11	0.027	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: 785OA-1_0318 — Lab Sample ID: 320-37345-20

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.67	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
Acetone	5.7	J	12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.25	J	1.3	0.25	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 785OA-1_0318 (Continued) — Lab Sample ID: 320-37345-20

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.32	J	1.4	0.29	ug/m3	1		TO-15	Total/NA
Chloromethane	1.6	J	1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.6	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.1		1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.48	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.97	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.30	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Styrene	1.1	J	1.7	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	18		2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.44	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	2.5	J	4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4	J	4.5	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 774776INF_0318 — Lab Sample ID: 320-37345-21

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.5	J	1.6	0.35	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.68	J	2.4	0.59	ug/m3	1		TO-15	Total/NA
Acetone	19		12	0.42	ug/m3	1		TO-15	Total/NA
Benzene	0.99	J	1.3	0.25	ug/m3	1		TO-15	Total/NA
Carbon disulfide	11		2.5	0.47	ug/m3	1		TO-15	Total/NA
Chloroform	1.2	J	1.5	0.46	ug/m3	1		TO-15	Total/NA
Chloromethane	1.8		1.7	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.0	J	4.0	0.72	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.29	J	1.7	0.27	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.50	J	1.4	0.25	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0	J	3.5	0.43	ug/m3	1		TO-15	Total/NA
o-Xylene	0.47	J	1.7	0.23	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.76	J	2.7	0.35	ug/m3	1		TO-15	Total/NA
Toluene	0.81	J	1.5	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	57		4.3	0.56	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	35		4.5	1.1	ug/m3	1		TO-15	Total/NA
1,4-Dioxane	0.54	J M	2.9	0.36	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 774VMP-1_0318
Lab Sample ID: 320-37345-1

Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U M	1.6	0.35	ug/m3			04/04/18 19:39	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/04/18 19:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/04/18 19:39	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/04/18 19:39	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/04/18 19:39	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/04/18 19:39	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/04/18 19:39	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/04/18 19:39	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/04/18 19:39	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/04/18 19:39	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/04/18 19:39	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/04/18 19:39	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/04/18 19:39	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/04/18 19:39	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/04/18 19:39	1
2-Butanone (MEK)	**1.5**	**J**	2.4	0.59	ug/m3			04/04/18 19:39	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/04/18 19:39	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/04/18 19:39	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/04/18 19:39	1
Acetone	**21**		12	0.42	ug/m3			04/04/18 19:39	1
Benzene	**0.53**	**J**	1.3	0.25	ug/m3			04/04/18 19:39	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/04/18 19:39	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/04/18 19:39	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/04/18 19:39	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/04/18 19:39	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/04/18 19:39	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/04/18 19:39	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/04/18 19:39	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/04/18 19:39	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/04/18 19:39	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/04/18 19:39	1
Chloromethane	**1.5**	**J**	1.7	0.41	ug/m3			04/04/18 19:39	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/04/18 19:39	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/04/18 19:39	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/04/18 19:39	1
Dichlorodifluoromethane	**1.8**	**J**	4.0	0.72	ug/m3			04/04/18 19:39	1
Ethylbenzene	0.87	U	1.7	0.27	ug/m3			04/04/18 19:39	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/04/18 19:39	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/04/18 19:39	1
Methylene Chloride	**0.49**	**J**	1.4	0.25	ug/m3			04/04/18 19:39	1
m-Xylene & p-Xylene	0.87	U	3.5	0.43	ug/m3			04/04/18 19:39	1
Naphthalene	6.3	U M	10	2.9	ug/m3			04/04/18 19:39	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/04/18 19:39	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/04/18 19:39	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/04/18 19:39	1
Toluene	**0.77**	**J**	1.5	0.19	ug/m3			04/04/18 19:39	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/04/18 19:39	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/04/18 19:39	1

Client Sample ID: 774VMP-1_0318
Lab Sample ID: 320-37345-1
Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/04/18 19:39	1
Trichlorofluoromethane	**8.4**		4.5	1.1	ug/m3			04/04/18 19:39	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/04/18 19:39	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/04/18 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/04/18 19:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/04/18 19:39*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/04/18 19:39*	*1*

Client Sample ID: 774VMP-2_0318
Lab Sample ID: 320-37345-2
Date Collected: 03/21/18 15:55
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/04/18 20:36	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/04/18 20:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/04/18 20:36	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/04/18 20:36	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/04/18 20:36	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/04/18 20:36	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/04/18 20:36	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/04/18 20:36	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/04/18 20:36	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/04/18 20:36	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/04/18 20:36	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/04/18 20:36	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/04/18 20:36	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/04/18 20:36	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/04/18 20:36	1
2-Butanone (MEK)	**1.2**	**J**	2.4	0.59	ug/m3			04/04/18 20:36	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/04/18 20:36	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/04/18 20:36	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/04/18 20:36	1
Acetone	**21**		12	0.42	ug/m3			04/04/18 20:36	1
Benzene	**0.55**	**J**	1.3	0.25	ug/m3			04/04/18 20:36	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/04/18 20:36	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/04/18 20:36	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/04/18 20:36	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/04/18 20:36	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/04/18 20:36	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/04/18 20:36	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/04/18 20:36	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/04/18 20:36	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/04/18 20:36	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/04/18 20:36	1
Chloromethane	**1.0**	**J**	1.7	0.41	ug/m3			04/04/18 20:36	1

Client Sample ID: 774VMP-2_0318
Lab Sample ID: 320-37345-2
Date Collected: 03/21/18 15:55
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/04/18 20:36	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/04/18 20:36	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/04/18 20:36	1
Dichlorodifluoromethane	**1.8**	**J**	4.0	0.72	ug/m3			04/04/18 20:36	1
Ethylbenzene	**0.40**	**J**	1.7	0.27	ug/m3			04/04/18 20:36	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/04/18 20:36	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/04/18 20:36	1
Methylene Chloride	**0.58**	**J**	1.4	0.25	ug/m3			04/04/18 20:36	1
m-Xylene & p-Xylene	**0.48**	**J**	3.5	0.43	ug/m3			04/04/18 20:36	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/04/18 20:36	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/04/18 20:36	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/04/18 20:36	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/04/18 20:36	1
Toluene	**1.1**	**J**	1.5	0.19	ug/m3			04/04/18 20:36	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/04/18 20:36	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/04/18 20:36	1
Trichloroethene	**0.66**	**J M**	4.3	0.56	ug/m3			04/04/18 20:36	1
Trichlorofluoromethane	**9.1**		4.5	1.1	ug/m3			04/04/18 20:36	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/04/18 20:36	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/04/18 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/04/18 20:36*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/04/18 20:36*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/04/18 20:36*	*1*

Client Sample ID: 774VMP-3_0318
Lab Sample ID: 320-37345-3
Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/04/18 21:32	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/04/18 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/04/18 21:32	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/04/18 21:32	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/04/18 21:32	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/04/18 21:32	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/04/18 21:32	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/04/18 21:32	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/04/18 21:32	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/04/18 21:32	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/04/18 21:32	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/04/18 21:32	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/04/18 21:32	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/04/18 21:32	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/04/18 21:32	1
2-Butanone (MEK)	1.2	U	2.4	0.59	ug/m3			04/04/18 21:32	1

Client Sample ID: 774VMP-3_0318
Lab Sample ID: 320-37345-3
Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/04/18 21:32	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/04/18 21:32	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/04/18 21:32	1
Acetone	**7.9**	**J**	12	0.42	ug/m3			04/04/18 21:32	1
Benzene	**0.47**	**J**	1.3	0.25	ug/m3			04/04/18 21:32	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/04/18 21:32	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/04/18 21:32	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/04/18 21:32	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/04/18 21:32	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/04/18 21:32	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/04/18 21:32	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/04/18 21:32	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/04/18 21:32	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/04/18 21:32	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/04/18 21:32	1
Chloromethane	**2.4**		1.7	0.41	ug/m3			04/04/18 21:32	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/04/18 21:32	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/04/18 21:32	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/04/18 21:32	1
Dichlorodifluoromethane	**2.1**	**J**	4.0	0.72	ug/m3			04/04/18 21:32	1
Ethylbenzene	0.87	U	1.7	0.27	ug/m3			04/04/18 21:32	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/04/18 21:32	1
Methyl tert-butyl ether	1.4	U M	2.9	0.43	ug/m3			04/04/18 21:32	1
Methylene Chloride	**23**		1.4	0.25	ug/m3			04/04/18 21:32	1
m-Xylene & p-Xylene	0.87	U M	3.5	0.43	ug/m3			04/04/18 21:32	1
Naphthalene	6.3	U M	10	2.9	ug/m3			04/04/18 21:32	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/04/18 21:32	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/04/18 21:32	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/04/18 21:32	1
Toluene	**0.42**	**J**	1.5	0.19	ug/m3			04/04/18 21:32	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/04/18 21:32	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/04/18 21:32	1
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/04/18 21:32	1
Trichlorofluoromethane	**46**		4.5	1.1	ug/m3			04/04/18 21:32	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/04/18 21:32	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/04/18 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*04/04/18 21:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/04/18 21:32*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*04/04/18 21:32*	*1*

Client Sample ID: 774IA-1_0318
Lab Sample ID: 320-37345-4

Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.055	U M	0.11	0.027	ug/m3			04/10/18 21:04	1
1,1-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 21:04	1
Benzene	**0.44**		0.16	0.032	ug/m3			04/10/18 21:04	1
Carbon tetrachloride	**0.41**		0.13	0.031	ug/m3			04/10/18 21:04	1
cis-1,2-Dichloroethene	**0.071**	**J**	0.079	0.020	ug/m3			04/10/18 21:04	1
Methylene Chloride	**0.37**	**J**	0.69	0.17	ug/m3			04/10/18 21:04	1
Tetrachloroethene	**0.080**	**J**	0.14	0.068	ug/m3			04/10/18 21:04	1
Trichloroethene	**0.11**		0.11	0.027	ug/m3			04/10/18 21:04	1
Vinyl chloride	0.026	U	0.051	0.013	ug/m3			04/10/18 21:04	1

Client Sample ID: 776VMP-1_0318
Lab Sample ID: 320-37345-5

Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/04/18 22:29	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/04/18 22:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/04/18 22:29	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/04/18 22:29	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/04/18 22:29	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/04/18 22:29	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/04/18 22:29	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/04/18 22:29	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/04/18 22:29	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/04/18 22:29	1
1,2-Dichloroethane	0.81	U M	3.2	0.36	ug/m3			04/04/18 22:29	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/04/18 22:29	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/04/18 22:29	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/04/18 22:29	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/04/18 22:29	1
2-Butanone (MEK)	**2.3**	**J**	2.4	0.59	ug/m3			04/04/18 22:29	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/04/18 22:29	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/04/18 22:29	1
4-Methyl-2-pentanone (MIBK)	**1.3**	**J**	3.3	0.55	ug/m3			04/04/18 22:29	1
Acetone	**51**		12	0.42	ug/m3			04/04/18 22:29	1
Benzene	**0.64**	**J**	1.3	0.25	ug/m3			04/04/18 22:29	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/04/18 22:29	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/04/18 22:29	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/04/18 22:29	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/04/18 22:29	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/04/18 22:29	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/04/18 22:29	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/04/18 22:29	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/04/18 22:29	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/04/18 22:29	1
Chloroform	**0.52**	**J**	1.5	0.46	ug/m3			04/04/18 22:29	1
Chloromethane	**1.2**	**J**	1.7	0.41	ug/m3			04/04/18 22:29	1

Client Sample ID: 776VMP-1_0318
Lab Sample ID: 320-37345-5
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/04/18 22:29	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/04/18 22:29	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/04/18 22:29	1
Dichlorodifluoromethane	**1.9**	**J**	4.0	0.72	ug/m3			04/04/18 22:29	1
Ethylbenzene	**0.33**	**J**	1.7	0.27	ug/m3			04/04/18 22:29	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/04/18 22:29	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/04/18 22:29	1
Methylene Chloride	**0.52**	**J**	1.4	0.25	ug/m3			04/04/18 22:29	1
m-Xylene & p-Xylene	**0.78**	**J M**	3.5	0.43	ug/m3			04/04/18 22:29	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/04/18 22:29	1
o-Xylene	**0.30**	**J**	1.7	0.23	ug/m3			04/04/18 22:29	1
Styrene	**0.29**	**J**	1.7	0.25	ug/m3			04/04/18 22:29	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/04/18 22:29	1
Toluene	**1.2**	**J**	1.5	0.19	ug/m3			04/04/18 22:29	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/04/18 22:29	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/04/18 22:29	1
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/04/18 22:29	1
Trichlorofluoromethane	**1.7**	**J**	4.5	1.1	ug/m3			04/04/18 22:29	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/04/18 22:29	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/04/18 22:29	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/04/18 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/04/18 22:29*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/04/18 22:29*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/18 22:29*	*1*

Client Sample ID: 776VMP-2_0318
Lab Sample ID: 320-37345-6
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/04/18 23:25	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/04/18 23:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/04/18 23:25	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/04/18 23:25	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/04/18 23:25	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/04/18 23:25	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/04/18 23:25	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/04/18 23:25	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/04/18 23:25	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/04/18 23:25	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/04/18 23:25	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/04/18 23:25	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/04/18 23:25	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/04/18 23:25	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/04/18 23:25	1

Client Sample ID: 776VMP-2_0318
Lab Sample ID: 320-37345-6
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**2.7**		2.4	0.59	ug/m3			04/04/18 23:25	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/04/18 23:25	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/04/18 23:25	1
4-Methyl-2-pentanone (MIBK)	**1.7**	**J**	3.3	0.55	ug/m3			04/04/18 23:25	1
Acetone	**55**		12	0.42	ug/m3			04/04/18 23:25	1
Benzene	**0.62**	**J**	1.3	0.25	ug/m3			04/04/18 23:25	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/04/18 23:25	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/04/18 23:25	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/04/18 23:25	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/04/18 23:25	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/04/18 23:25	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/04/18 23:25	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/04/18 23:25	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/04/18 23:25	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/04/18 23:25	1
Chloroform	**0.58**	**J**	1.5	0.46	ug/m3			04/04/18 23:25	1
Chloromethane	**1.5**	**J**	1.7	0.41	ug/m3			04/04/18 23:25	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/04/18 23:25	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/04/18 23:25	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/04/18 23:25	1
Dichlorodifluoromethane	**2.0**	**J**	4.0	0.72	ug/m3			04/04/18 23:25	1
Ethylbenzene	**0.33**	**J**	1.7	0.27	ug/m3			04/04/18 23:25	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/04/18 23:25	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/04/18 23:25	1
Methylene Chloride	**0.64**	**J**	1.4	0.25	ug/m3			04/04/18 23:25	1
m-Xylene & p-Xylene	**0.75**	**J**	3.5	0.43	ug/m3			04/04/18 23:25	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/04/18 23:25	1
o-Xylene	**0.34**	**J**	1.7	0.23	ug/m3			04/04/18 23:25	1
Styrene	**0.41**	**J**	1.7	0.25	ug/m3			04/04/18 23:25	1
Tetrachloroethene	**0.40**	**J**	2.7	0.35	ug/m3			04/04/18 23:25	1
Toluene	**1.3**	**J**	1.5	0.19	ug/m3			04/04/18 23:25	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/04/18 23:25	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/04/18 23:25	1
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/04/18 23:25	1
Trichlorofluoromethane	**1.7**	**J**	4.5	1.1	ug/m3			04/04/18 23:25	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/04/18 23:25	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/04/18 23:25	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/04/18 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/04/18 23:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/04/18 23:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/04/18 23:25*	*1*

Client Sample ID: 776VMP-2_0318-a
Lab Sample ID: 320-37345-7
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 01:16	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/05/18 01:16	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 01:16	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 01:16	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 01:16	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 01:16	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/05/18 01:16	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 01:16	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 01:16	1
1,2-Dichloroethane	0.81	U M	3.2	0.36	ug/m3			04/05/18 01:16	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 01:16	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/05/18 01:16	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 01:16	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 01:16	1
2-Butanone (MEK)	**2.3**	**J**	2.4	0.59	ug/m3			04/05/18 01:16	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/05/18 01:16	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/05/18 01:16	1
4-Methyl-2-pentanone (MIBK)	**1.5**	**J**	3.3	0.55	ug/m3			04/05/18 01:16	1
Acetone	**53**		12	0.42	ug/m3			04/05/18 01:16	1
Benzene	**0.61**	**J**	1.3	0.25	ug/m3			04/05/18 01:16	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 01:16	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 01:16	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 01:16	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 01:16	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 01:16	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/05/18 01:16	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/05/18 01:16	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 01:16	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 01:16	1
Chloroform	**0.53**	**J**	1.5	0.46	ug/m3			04/05/18 01:16	1
Chloromethane	**1.4**	**J**	1.7	0.41	ug/m3			04/05/18 01:16	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 01:16	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 01:16	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 01:16	1
Dichlorodifluoromethane	**2.0**	**J**	4.0	0.72	ug/m3			04/05/18 01:16	1
Ethylbenzene	0.87	U	1.7	0.27	ug/m3			04/05/18 01:16	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 01:16	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 01:16	1
Methylene Chloride	**0.59**	**J**	1.4	0.25	ug/m3			04/05/18 01:16	1
m-Xylene & p-Xylene	0.87	U	3.5	0.43	ug/m3			04/05/18 01:16	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/05/18 01:16	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/05/18 01:16	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 01:16	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/05/18 01:16	1
Toluene	**1.1**	**J**	1.5	0.19	ug/m3			04/05/18 01:16	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 01:16	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 01:16	1

Client Sample ID: 776VMP-2_0318-a
Lab Sample ID: 320-37345-7

Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/05/18 01:16	1
Trichlorofluoromethane	**1.8**	**J**	4.5	1.1	ug/m3			04/05/18 01:16	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 01:16	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 01:16	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/05/18 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/05/18 01:16*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*04/05/18 01:16*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/18 01:16*	*1*

Client Sample ID: 776VMP-3_0318
Lab Sample ID: 320-37345-8

Date Collected: 03/21/18 15:40
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 02:13	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 02:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/05/18 02:13	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 02:13	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 02:13	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 02:13	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 02:13	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/05/18 02:13	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 02:13	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 02:13	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 02:13	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 02:13	1
1,3,5-Trimethylbenzene	2.0	U M	3.9	0.61	ug/m3			04/05/18 02:13	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 02:13	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 02:13	1
2-Butanone (MEK)	**2.9**		2.4	0.59	ug/m3			04/05/18 02:13	1
2-Hexanone	0.82	U M	1.6	0.36	ug/m3			04/05/18 02:13	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/05/18 02:13	1
4-Methyl-2-pentanone (MIBK)	1.6	U M	3.3	0.55	ug/m3			04/05/18 02:13	1
Acetone	**76**		12	0.42	ug/m3			04/05/18 02:13	1
Benzene	**0.36**	**J**	1.3	0.25	ug/m3			04/05/18 02:13	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 02:13	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 02:13	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 02:13	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 02:13	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 02:13	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/05/18 02:13	1
Carbon tetrachloride	2.5	U M	5.0	0.94	ug/m3			04/05/18 02:13	1
Chlorobenzene	**0.46**	**J**	1.4	0.29	ug/m3			04/05/18 02:13	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 02:13	1
Chloroform	**0.46**	**J**	1.5	0.46	ug/m3			04/05/18 02:13	1

Client Sample ID: 776VMP-3_0318
Lab Sample ID: 320-37345-8

Date Collected: 03/21/18 15:40
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**0.88**	**J**	1.7	0.41	ug/m3			04/05/18 02:13	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 02:13	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 02:13	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 02:13	1
Dichlorodifluoromethane	**2.0**	**J**	4.0	0.72	ug/m3			04/05/18 02:13	1
Ethylbenzene	**3.0**		1.7	0.27	ug/m3			04/05/18 02:13	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 02:13	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 02:13	1
Methylene Chloride	**0.41**	**J**	1.4	0.25	ug/m3			04/05/18 02:13	1
m-Xylene & p-Xylene	**1.4**	**J**	3.5	0.43	ug/m3			04/05/18 02:13	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/05/18 02:13	1
o-Xylene	**0.42**	**J**	1.7	0.23	ug/m3			04/05/18 02:13	1
Styrene	**1.5**	**J**	1.7	0.25	ug/m3			04/05/18 02:13	1
Tetrachloroethene	**100**		2.7	0.35	ug/m3			04/05/18 02:13	1
Toluene	**0.77**	**J**	1.5	0.19	ug/m3			04/05/18 02:13	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 02:13	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 02:13	1
Trichloroethene	**27**		4.3	0.56	ug/m3			04/05/18 02:13	1
Trichlorofluoromethane	**1.5**	**J**	4.5	1.1	ug/m3			04/05/18 02:13	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 02:13	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 02:13	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/05/18 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/05/18 02:13*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/05/18 02:13*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*04/05/18 02:13*	*1*

Client Sample ID: 776IA-1_0318
Lab Sample ID: 320-37345-9

Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.055	U	0.11	0.027	ug/m3			04/10/18 22:01	1
1,1-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 22:01	1
Benzene	**0.48**		0.16	0.032	ug/m3			04/10/18 22:01	1
Carbon tetrachloride	**0.42**		0.13	0.031	ug/m3			04/10/18 22:01	1
cis-1,2-Dichloroethene	**1.2**		0.079	0.020	ug/m3			04/10/18 22:01	1
Methylene Chloride	**0.38**	**J**	0.69	0.17	ug/m3			04/10/18 22:01	1
Tetrachloroethene	**0.17**		0.14	0.068	ug/m3			04/10/18 22:01	1
Trichloroethene	**0.13**		0.11	0.027	ug/m3			04/10/18 22:01	1
Vinyl chloride	0.026	U	0.051	0.013	ug/m3			04/10/18 22:01	1
1,4-Dioxane	**0.062**	**J**	0.36	0.036	ug/m3			04/10/18 22:01	1

Client Sample ID: 776OA-1_0318
Lab Sample ID: 320-37345-10

Date Collected: 03/21/18 16:05
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 19:18	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/05/18 19:18	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 19:18	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 19:18	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 19:18	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 19:18	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/05/18 19:18	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 19:18	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 19:18	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 19:18	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 19:18	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/05/18 19:18	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 19:18	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 19:18	1
2-Butanone (MEK)	**1.2**	**J**	2.4	0.59	ug/m3			04/05/18 19:18	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/05/18 19:18	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/05/18 19:18	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/05/18 19:18	1
Acetone	**8.3**	**J**	12	0.42	ug/m3			04/05/18 19:18	1
Benzene	**0.49**	**J**	1.3	0.25	ug/m3			04/05/18 19:18	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 19:18	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 19:18	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 19:18	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 19:18	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 19:18	1
Carbon disulfide	1.2	U	2.5	0.47	ug/m3			04/05/18 19:18	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/05/18 19:18	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 19:18	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 19:18	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/05/18 19:18	1
Chloromethane	**1.6**	**J**	1.7	0.41	ug/m3			04/05/18 19:18	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 19:18	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 19:18	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 19:18	1
Dichlorodifluoromethane	**1.9**	**J**	4.0	0.72	ug/m3			04/05/18 19:18	1
Ethylbenzene	0.87	U	1.7	0.27	ug/m3			04/05/18 19:18	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 19:18	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 19:18	1
Methylene Chloride	**0.52**	**J**	1.4	0.25	ug/m3			04/05/18 19:18	1
m-Xylene & p-Xylene	0.87	U M	3.5	0.43	ug/m3			04/05/18 19:18	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/05/18 19:18	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/05/18 19:18	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 19:18	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/05/18 19:18	1
Toluene	**0.53**	**J**	1.5	0.19	ug/m3			04/05/18 19:18	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 19:18	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 19:18	1

Client Sample ID: 776OA-1_0318
Lab Sample ID: 320-37345-10
Date Collected: 03/21/18 16:05
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/05/18 19:18	1
Trichlorofluoromethane	**1.6**	**J**	4.5	1.1	ug/m3			04/05/18 19:18	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 19:18	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 19:18	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/05/18 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*04/05/18 19:18*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*04/05/18 19:18*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/18 19:18*	*1*

Client Sample ID: 785VMP-2_0318
Lab Sample ID: 320-37345-11
Date Collected: 03/21/18 16:55
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 20:15	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/05/18 20:15	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 20:15	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 20:15	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 20:15	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 20:15	1
1,2,4-Trimethylbenzene	**1.1**	**J**	3.9	0.80	ug/m3			04/05/18 20:15	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 20:15	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 20:15	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 20:15	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 20:15	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/05/18 20:15	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 20:15	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 20:15	1
2-Butanone (MEK)	**2.7**		2.4	0.59	ug/m3			04/05/18 20:15	1
2-Hexanone	**0.47**	**J**	1.6	0.36	ug/m3			04/05/18 20:15	1
4-Ethyltoluene	2.0	U M	3.9	0.92	ug/m3			04/05/18 20:15	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/05/18 20:15	1
Acetone	**13**		12	0.42	ug/m3			04/05/18 20:15	1
Benzene	**0.71**	**J**	1.3	0.25	ug/m3			04/05/18 20:15	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 20:15	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 20:15	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 20:15	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 20:15	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 20:15	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/05/18 20:15	1
Carbon tetrachloride	2.5	U M	5.0	0.94	ug/m3			04/05/18 20:15	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 20:15	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 20:15	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/05/18 20:15	1

Client Sample ID: 785VMP-2_0318
Lab Sample ID: 320-37345-11

Date Collected: 03/21/18 16:55
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**2.5**		1.7	0.41	ug/m3			04/05/18 20:15	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 20:15	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 20:15	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 20:15	1
Dichlorodifluoromethane	**1.7**	**J**	4.0	0.72	ug/m3			04/05/18 20:15	1
Ethylbenzene	**0.30**	**J**	1.7	0.27	ug/m3			04/05/18 20:15	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 20:15	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 20:15	1
Methylene Chloride	**0.45**	**J**	1.4	0.25	ug/m3			04/05/18 20:15	1
m-Xylene & p-Xylene	**1.0**	**J**	3.5	0.43	ug/m3			04/05/18 20:15	1
Naphthalene	6.3	U M	10	2.9	ug/m3			04/05/18 20:15	1
o-Xylene	**0.48**	**J**	1.7	0.23	ug/m3			04/05/18 20:15	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 20:15	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/05/18 20:15	1
Toluene	**0.93**	**J**	1.5	0.19	ug/m3			04/05/18 20:15	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 20:15	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 20:15	1
Trichloroethene	**13**		4.3	0.56	ug/m3			04/05/18 20:15	1
Trichlorofluoromethane	**1.5**	**J**	4.5	1.1	ug/m3			04/05/18 20:15	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 20:15	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*04/05/18 20:15*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/18 20:15*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/05/18 20:15*	*1*

Client Sample ID: 785VMP-2_0318-a
Lab Sample ID: 320-37345-12

Date Collected: 03/21/18 16:55
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 21:11	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 21:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/05/18 21:11	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 21:11	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 21:11	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 21:11	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 21:11	1
1,2,4-Trimethylbenzene	**0.94**	**J**	3.9	0.80	ug/m3			04/05/18 21:11	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 21:11	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 21:11	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 21:11	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 21:11	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/05/18 21:11	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 21:11	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 21:11	1

Client Sample ID: 785VMP-2_0318-a
Lab Sample ID: 320-37345-12
Date Collected: 03/21/18 16:55
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**2.6**		2.4	0.59	ug/m3			04/05/18 21:11	1
2-Hexanone	**0.41**	**J**	1.6	0.36	ug/m3			04/05/18 21:11	1
4-Ethyltoluene	**1.1**	**J**	3.9	0.92	ug/m3			04/05/18 21:11	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/05/18 21:11	1
Acetone	**11**	**J**	12	0.42	ug/m3			04/05/18 21:11	1
Benzene	**0.49**	**J**	1.3	0.25	ug/m3			04/05/18 21:11	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 21:11	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 21:11	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 21:11	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 21:11	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 21:11	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/05/18 21:11	1
Carbon tetrachloride	2.5	U M	5.0	0.94	ug/m3			04/05/18 21:11	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 21:11	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 21:11	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/05/18 21:11	1
Chloromethane	**2.2**		1.7	0.41	ug/m3			04/05/18 21:11	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 21:11	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 21:11	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 21:11	1
Dichlorodifluoromethane	**1.8**	**J**	4.0	0.72	ug/m3			04/05/18 21:11	1
Ethylbenzene	**0.35**	**J**	1.7	0.27	ug/m3			04/05/18 21:11	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 21:11	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 21:11	1
Methylene Chloride	0.69	U	1.4	0.25	ug/m3			04/05/18 21:11	1
m-Xylene & p-Xylene	**0.91**	**J**	3.5	0.43	ug/m3			04/05/18 21:11	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/05/18 21:11	1
o-Xylene	**0.45**	**J**	1.7	0.23	ug/m3			04/05/18 21:11	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 21:11	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/05/18 21:11	1
Toluene	**0.89**	**J**	1.5	0.19	ug/m3			04/05/18 21:11	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 21:11	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 21:11	1
Trichloroethene	**13**		4.3	0.56	ug/m3			04/05/18 21:11	1
Trichlorofluoromethane	**1.5**	**J**	4.5	1.1	ug/m3			04/05/18 21:11	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 21:11	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*04/05/18 21:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/05/18 21:11*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/05/18 21:11*	*1*

Client Sample ID: 785VMP-4_0318
Lab Sample ID: 320-37345-13

Date Collected: 03/21/18 17:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 22:08	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 22:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.2**	**J M**	6.1	1.2	ug/m3			04/05/18 22:08	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 22:08	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 22:08	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 22:08	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 22:08	1
1,2,4-Trimethylbenzene	**4.5**		3.9	0.80	ug/m3			04/05/18 22:08	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 22:08	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 22:08	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 22:08	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 22:08	1
1,3,5-Trimethylbenzene	**1.5**	**J**	3.9	0.61	ug/m3			04/05/18 22:08	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 22:08	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 22:08	1
2-Butanone (MEK)	1.2	U	2.4	0.59	ug/m3			04/05/18 22:08	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/05/18 22:08	1
4-Ethyltoluene	2.0	U M	3.9	0.92	ug/m3			04/05/18 22:08	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/05/18 22:08	1
Acetone	**25**		12	0.42	ug/m3			04/05/18 22:08	1
Benzene	**0.56**	**J**	1.3	0.25	ug/m3			04/05/18 22:08	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 22:08	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 22:08	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 22:08	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 22:08	1
Butadiene	0.88	U M	1.8	0.34	ug/m3			04/05/18 22:08	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/05/18 22:08	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/05/18 22:08	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 22:08	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 22:08	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/05/18 22:08	1
Chloromethane	**1.1**	**J**	1.7	0.41	ug/m3			04/05/18 22:08	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 22:08	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 22:08	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 22:08	1
Dichlorodifluoromethane	**2.0**	**J**	4.0	0.72	ug/m3			04/05/18 22:08	1
Ethylbenzene	**0.53**	**J**	1.7	0.27	ug/m3			04/05/18 22:08	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 22:08	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 22:08	1
Methylene Chloride	**0.47**	**J**	1.4	0.25	ug/m3			04/05/18 22:08	1
m-Xylene & p-Xylene	**1.5**	**J**	3.5	0.43	ug/m3			04/05/18 22:08	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/05/18 22:08	1
o-Xylene	**0.94**	**J**	1.7	0.23	ug/m3			04/05/18 22:08	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 22:08	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/05/18 22:08	1
Toluene	**0.97**	**J**	1.5	0.19	ug/m3			04/05/18 22:08	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 22:08	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 22:08	1

Client Sample ID: 785VMP-4_0318
Lab Sample ID: 320-37345-13

Date Collected: 03/21/18 17:00
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/05/18 22:08	1
Trichlorofluoromethane	**1.6**	**J**	4.5	1.1	ug/m3			04/05/18 22:08	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 22:08	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/05/18 22:08*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/18 22:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/05/18 22:08*	*1*

Client Sample ID: 785VMP-5_0318
Lab Sample ID: 320-37345-14

Date Collected: 03/21/18 17:05
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/06/18 08:21	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/06/18 08:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/06/18 08:21	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/06/18 08:21	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/06/18 08:21	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/06/18 08:21	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/06/18 08:21	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/06/18 08:21	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/06/18 08:21	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/06/18 08:21	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/06/18 08:21	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/06/18 08:21	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/06/18 08:21	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/06/18 08:21	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/06/18 08:21	1
2-Butanone (MEK)	1.2	U M	2.4	0.59	ug/m3			04/06/18 08:21	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/06/18 08:21	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/06/18 08:21	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/06/18 08:21	1
Acetone	**8.0**	**J**	12	0.42	ug/m3			04/06/18 08:21	1
Benzene	**0.47**	**J**	1.3	0.25	ug/m3			04/06/18 08:21	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/06/18 08:21	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/06/18 08:21	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/06/18 08:21	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/06/18 08:21	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/06/18 08:21	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/06/18 08:21	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/06/18 08:21	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/06/18 08:21	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/06/18 08:21	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/06/18 08:21	1
Chloromethane	**0.89**	**J**	1.7	0.41	ug/m3			04/06/18 08:21	1

Client Sample ID: 785VMP-5_0318
Lab Sample ID: 320-37345-14

Date Collected: 03/21/18 17:05
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/06/18 08:21	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/06/18 08:21	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/06/18 08:21	1
Dichlorodifluoromethane	**1.6**	**J**	4.0	0.72	ug/m3			04/06/18 08:21	1
Ethylbenzene	**0.27**	**J**	1.7	0.27	ug/m3			04/06/18 08:21	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/06/18 08:21	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/06/18 08:21	1
Methylene Chloride	**1.2**	**J**	1.4	0.25	ug/m3			04/06/18 08:21	1
m-Xylene & p-Xylene	**0.46**	**J M**	3.5	0.43	ug/m3			04/06/18 08:21	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/06/18 08:21	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/06/18 08:21	1
Styrene	**0.59**	**J**	1.7	0.25	ug/m3			04/06/18 08:21	1
Tetrachloroethene	**0.35**	**J**	2.7	0.35	ug/m3			04/06/18 08:21	1
Toluene	**0.72**	**J**	1.5	0.19	ug/m3			04/06/18 08:21	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/06/18 08:21	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/06/18 08:21	1
Trichloroethene	**0.97**	**J**	4.3	0.56	ug/m3			04/06/18 08:21	1
Trichlorofluoromethane	**1.6**	**J**	4.5	1.1	ug/m3			04/06/18 08:21	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/06/18 08:21	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/06/18 08:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/06/18 08:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/06/18 08:21*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/18 08:21*	*1*

Client Sample ID: 785IA-1_0318
Lab Sample ID: 320-37345-15

Date Collected: 03/21/18 16:45
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.055	U M	0.11	0.027	ug/m3			04/10/18 22:56	1
1,1-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 22:56	1
Benzene	**0.52**		0.16	0.032	ug/m3			04/10/18 22:56	1
Carbon tetrachloride	**0.34**		0.13	0.031	ug/m3			04/10/18 22:56	1
cis-1,2-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 22:56	1
Methylene Chloride	**0.52**	**J**	0.69	0.17	ug/m3			04/10/18 22:56	1
Tetrachloroethene	0.14	U M	0.14	0.068	ug/m3			04/10/18 22:56	1
Trichloroethene	**0.029**	**J M**	0.11	0.027	ug/m3			04/10/18 22:56	1
Vinyl chloride	0.026	U	0.051	0.013	ug/m3			04/10/18 22:56	1

Client Sample ID: 786VMP-1_0318
Lab Sample ID: 320-37345-16
Date Collected: 03/21/18 16:30
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.1**		1.6	0.35	ug/m3			04/06/18 00:01	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/06/18 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/06/18 00:01	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/06/18 00:01	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/06/18 00:01	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/06/18 00:01	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/06/18 00:01	1
1,2,4-Trimethylbenzene	**49**		3.9	0.80	ug/m3			04/06/18 00:01	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/06/18 00:01	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/06/18 00:01	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/06/18 00:01	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/06/18 00:01	1
1,3,5-Trimethylbenzene	**29**		3.9	0.61	ug/m3			04/06/18 00:01	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/06/18 00:01	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/06/18 00:01	1
2-Butanone (MEK)	**3.3**		2.4	0.59	ug/m3			04/06/18 00:01	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/06/18 00:01	1
4-Ethyltoluene	**19**	**M**	3.9	0.92	ug/m3			04/06/18 00:01	1
4-Methyl-2-pentanone (MIBK)	**4.5**		3.3	0.55	ug/m3			04/06/18 00:01	1
Acetone	**41**		12	0.42	ug/m3			04/06/18 00:01	1
Benzene	**3.8**		1.3	0.25	ug/m3			04/06/18 00:01	1
Benzyl chloride	2.1	U M	4.1	0.84	ug/m3			04/06/18 00:01	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/06/18 00:01	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/06/18 00:01	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/06/18 00:01	1
Butadiene	**4.7**		1.8	0.34	ug/m3			04/06/18 00:01	1
Carbon disulfide	**4.1**		2.5	0.47	ug/m3			04/06/18 00:01	1
Carbon tetrachloride	2.5	U M	5.0	0.94	ug/m3			04/06/18 00:01	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/06/18 00:01	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/06/18 00:01	1
Chloroform	**0.85**	**J**	1.5	0.46	ug/m3			04/06/18 00:01	1
Chloromethane	**2.2**		1.7	0.41	ug/m3			04/06/18 00:01	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/06/18 00:01	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/06/18 00:01	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/06/18 00:01	1
Dichlorodifluoromethane	**1.7**	**J**	4.0	0.72	ug/m3			04/06/18 00:01	1
Ethylbenzene	**32**		1.7	0.27	ug/m3			04/06/18 00:01	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/06/18 00:01	1
Methyl tert-butyl ether	1.4	U M	2.9	0.43	ug/m3			04/06/18 00:01	1
Methylene Chloride	**0.56**	**J**	1.4	0.25	ug/m3			04/06/18 00:01	1
m-Xylene & p-Xylene	**160**		3.5	0.43	ug/m3			04/06/18 00:01	1
Naphthalene	**9.1**	**J**	10	2.9	ug/m3			04/06/18 00:01	1
o-Xylene	**89**		1.7	0.23	ug/m3			04/06/18 00:01	1
Styrene	0.85	U M	1.7	0.25	ug/m3			04/06/18 00:01	1
Tetrachloroethene	**5.3**		2.7	0.35	ug/m3			04/06/18 00:01	1
Toluene	**8.2**		1.5	0.19	ug/m3			04/06/18 00:01	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/06/18 00:01	1
trans-1,3-Dichloropropene	0.91	U M	1.8	0.40	ug/m3			04/06/18 00:01	1

Client Sample ID: 786VMP-1_0318
Lab Sample ID: 320-37345-16

Date Collected: 03/21/18 16:30
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**89**		4.3	0.56	ug/m3			04/06/18 00:01	1
Trichlorofluoromethane	**2.1**	**J**	4.5	1.1	ug/m3			04/06/18 00:01	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/06/18 00:01	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/06/18 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/06/18 00:01*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/06/18 00:01*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/06/18 00:01*	*1*

Client Sample ID: 786VMP-2_0318
Lab Sample ID: 320-37345-17

Date Collected: 03/21/18 16:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**9.8**		1.6	0.35	ug/m3			04/06/18 00:57	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/06/18 00:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**3.9**	**J**	6.1	1.2	ug/m3			04/06/18 00:57	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/06/18 00:57	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/06/18 00:57	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/06/18 00:57	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/06/18 00:57	1
1,2,4-Trimethylbenzene	**3.0**	**J**	3.9	0.80	ug/m3			04/06/18 00:57	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/06/18 00:57	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/06/18 00:57	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/06/18 00:57	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/06/18 00:57	1
1,3,5-Trimethylbenzene	**1.1**	**J**	3.9	0.61	ug/m3			04/06/18 00:57	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/06/18 00:57	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/06/18 00:57	1
2-Butanone (MEK)	**1.6**	**J**	2.4	0.59	ug/m3			04/06/18 00:57	1
2-Hexanone	0.82	U M	1.6	0.36	ug/m3			04/06/18 00:57	1
4-Ethyltoluene	**0.97**	**J M**	3.9	0.92	ug/m3			04/06/18 00:57	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/06/18 00:57	1
Acetone	**11**	**J**	12	0.42	ug/m3			04/06/18 00:57	1
Benzene	**0.64**	**J**	1.3	0.25	ug/m3			04/06/18 00:57	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/06/18 00:57	1
Bromodichloromethane	**0.49**	**J**	2.0	0.44	ug/m3			04/06/18 00:57	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/06/18 00:57	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/06/18 00:57	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/06/18 00:57	1
Carbon disulfide	**4.2**		2.5	0.47	ug/m3			04/06/18 00:57	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/06/18 00:57	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/06/18 00:57	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/06/18 00:57	1
Chloroform	**27**		1.5	0.46	ug/m3			04/06/18 00:57	1

Client Sample ID: 786VMP-2_0318
Lab Sample ID: 320-37345-17

Date Collected: 03/21/18 16:35
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**1.7**		1.7	0.41	ug/m3			04/06/18 00:57	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/06/18 00:57	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/06/18 00:57	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/06/18 00:57	1
Dichlorodifluoromethane	**2.1**	**J**	4.0	0.72	ug/m3			04/06/18 00:57	1
Ethylbenzene	**5.5**		1.7	0.27	ug/m3			04/06/18 00:57	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/06/18 00:57	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/06/18 00:57	1
Methylene Chloride	**0.49**	**J**	1.4	0.25	ug/m3			04/06/18 00:57	1
m-Xylene & p-Xylene	**33**		3.5	0.43	ug/m3			04/06/18 00:57	1
Naphthalene	6.3	U M	10	2.9	ug/m3			04/06/18 00:57	1
o-Xylene	**11**		1.7	0.23	ug/m3			04/06/18 00:57	1
Styrene	0.85	U M	1.7	0.25	ug/m3			04/06/18 00:57	1
Tetrachloroethene	**2.2**	**J**	2.7	0.35	ug/m3			04/06/18 00:57	1
Toluene	**0.77**	**J**	1.5	0.19	ug/m3			04/06/18 00:57	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/06/18 00:57	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/06/18 00:57	1
Trichloroethene	**200**		4.3	0.56	ug/m3			04/06/18 00:57	1
Trichlorofluoromethane	**3.2**	**J**	4.5	1.1	ug/m3			04/06/18 00:57	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/06/18 00:57	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/06/18 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/06/18 00:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/06/18 00:57*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/06/18 00:57*	*1*

Client Sample ID: 786VMP-3_0318
Lab Sample ID: 320-37345-18

Date Collected: 03/21/18 16:25
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.66**	**J**	1.6	0.35	ug/m3			04/06/18 02:48	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/06/18 02:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/06/18 02:48	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/06/18 02:48	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/06/18 02:48	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/06/18 02:48	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/06/18 02:48	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/06/18 02:48	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/06/18 02:48	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/06/18 02:48	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/06/18 02:48	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/06/18 02:48	1
1,3,5-Trimethylbenzene	2.0	U M	3.9	0.61	ug/m3			04/06/18 02:48	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/06/18 02:48	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/06/18 02:48	1

Client Sample ID: 786VMP-3_0318
Lab Sample ID: 320-37345-18
Date Collected: 03/21/18 16:25
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**7.0**		2.4	0.59	ug/m3			04/06/18 02:48	1
2-Hexanone	**1.6**		1.6	0.36	ug/m3			04/06/18 02:48	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/06/18 02:48	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/06/18 02:48	1
Acetone	**21**		12	0.42	ug/m3			04/06/18 02:48	1
Benzene	**0.49**	**J**	1.3	0.25	ug/m3			04/06/18 02:48	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/06/18 02:48	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/06/18 02:48	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/06/18 02:48	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/06/18 02:48	1
Butadiene	0.88	U M	1.8	0.34	ug/m3			04/06/18 02:48	1
Carbon disulfide	**24**		2.5	0.47	ug/m3			04/06/18 02:48	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/06/18 02:48	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/06/18 02:48	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/06/18 02:48	1
Chloroform	**0.49**	**J**	1.5	0.46	ug/m3			04/06/18 02:48	1
Chloromethane	**0.84**	**J**	1.7	0.41	ug/m3			04/06/18 02:48	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/06/18 02:48	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/06/18 02:48	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/06/18 02:48	1
Dichlorodifluoromethane	**1.5**	**J**	4.0	0.72	ug/m3			04/06/18 02:48	1
Ethylbenzene	**0.29**	**J**	1.7	0.27	ug/m3			04/06/18 02:48	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/06/18 02:48	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/06/18 02:48	1
Methylene Chloride	**0.42**	**J**	1.4	0.25	ug/m3			04/06/18 02:48	1
m-Xylene & p-Xylene	**1.1**	**J**	3.5	0.43	ug/m3			04/06/18 02:48	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/06/18 02:48	1
o-Xylene	**0.52**	**J**	1.7	0.23	ug/m3			04/06/18 02:48	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/06/18 02:48	1
Tetrachloroethene	**3.9**		2.7	0.35	ug/m3			04/06/18 02:48	1
Toluene	**0.55**	**J**	1.5	0.19	ug/m3			04/06/18 02:48	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/06/18 02:48	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/06/18 02:48	1
Trichloroethene	**40**		4.3	0.56	ug/m3			04/06/18 02:48	1
Trichlorofluoromethane	**1.6**	**J**	4.5	1.1	ug/m3			04/06/18 02:48	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/06/18 02:48	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/06/18 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/06/18 02:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/06/18 02:48*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*04/06/18 02:48*	*1*

Client Sample ID: 786IA-1_0318
Lab Sample ID: 320-37345-19

Date Collected: 03/21/18 16:25
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.055	U M	0.11	0.027	ug/m3			04/10/18 23:52	1
1,1-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 23:52	1
Benzene	**0.40**		0.16	0.032	ug/m3			04/10/18 23:52	1
Carbon tetrachloride	0.063	U	0.13	0.031	ug/m3			04/10/18 23:52	1
cis-1,2-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 23:52	1
Methylene Chloride	0.35	U M	0.69	0.17	ug/m3			04/10/18 23:52	1
Tetrachloroethene	0.14	U	0.14	0.068	ug/m3			04/10/18 23:52	1
Trichloroethene	**0.035**	**J**	0.11	0.027	ug/m3			04/10/18 23:52	1
Vinyl chloride	0.026	U	0.051	0.013	ug/m3			04/10/18 23:52	1

Client Sample ID: 785OA-1_0318
Lab Sample ID: 320-37345-20

Date Collected: 03/21/18 17:05
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/06/18 03:44	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/06/18 03:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/06/18 03:44	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/06/18 03:44	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/06/18 03:44	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/06/18 03:44	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/06/18 03:44	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/06/18 03:44	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/06/18 03:44	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/06/18 03:44	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/06/18 03:44	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/06/18 03:44	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/06/18 03:44	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/06/18 03:44	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/06/18 03:44	1
2-Butanone (MEK)	**0.67**	**J**	2.4	0.59	ug/m3			04/06/18 03:44	1
2-Hexanone	0.82	U M	1.6	0.36	ug/m3			04/06/18 03:44	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/06/18 03:44	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/06/18 03:44	1
Acetone	**5.7**	**J**	12	0.42	ug/m3			04/06/18 03:44	1
Benzene	**0.25**	**J**	1.3	0.25	ug/m3			04/06/18 03:44	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/06/18 03:44	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/06/18 03:44	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/06/18 03:44	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/06/18 03:44	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/06/18 03:44	1
Carbon disulfide	1.2	U M	2.5	0.47	ug/m3			04/06/18 03:44	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/06/18 03:44	1
Chlorobenzene	**0.32**	**J**	1.4	0.29	ug/m3			04/06/18 03:44	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/06/18 03:44	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/06/18 03:44	1
Chloromethane	**1.6**	**J**	1.7	0.41	ug/m3			04/06/18 03:44	1

Client Sample ID: 785OA-1_0318
Lab Sample ID: 320-37345-20

Date Collected: 03/21/18 17:05
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/06/18 03:44	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/06/18 03:44	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/06/18 03:44	1
Dichlorodifluoromethane	**1.6**	**J**	4.0	0.72	ug/m3			04/06/18 03:44	1
Ethylbenzene	**2.1**		1.7	0.27	ug/m3			04/06/18 03:44	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/06/18 03:44	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/06/18 03:44	1
Methylene Chloride	**0.48**	**J**	1.4	0.25	ug/m3			04/06/18 03:44	1
m-Xylene & p-Xylene	**0.97**	**J**	3.5	0.43	ug/m3			04/06/18 03:44	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/06/18 03:44	1
o-Xylene	**0.30**	**J**	1.7	0.23	ug/m3			04/06/18 03:44	1
Styrene	**1.1**	**J**	1.7	0.25	ug/m3			04/06/18 03:44	1
Tetrachloroethene	**18**		2.7	0.35	ug/m3			04/06/18 03:44	1
Toluene	**0.44**	**J**	1.5	0.19	ug/m3			04/06/18 03:44	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/06/18 03:44	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/06/18 03:44	1
Trichloroethene	**2.5**	**J**	4.3	0.56	ug/m3			04/06/18 03:44	1
Trichlorofluoromethane	**1.4**	**J**	4.5	1.1	ug/m3			04/06/18 03:44	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/06/18 03:44	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/06/18 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/06/18 03:44*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/06/18 03:44*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/06/18 03:44*	*1*

Client Sample ID: 774776INF_0318
Lab Sample ID: 320-37345-21

Date Collected: 03/09/18 11:07
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.5**	**J**	1.6	0.35	ug/m3			04/05/18 18:23	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 18:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	1.2	ug/m3			04/05/18 18:23	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 18:23	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 18:23	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 18:23	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 18:23	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/05/18 18:23	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 18:23	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 18:23	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 18:23	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 18:23	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/05/18 18:23	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 18:23	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 18:23	1
2-Butanone (MEK)	**0.68**	**J**	2.4	0.59	ug/m3			04/05/18 18:23	1

Client Sample ID: 774776INF_0318
Lab Sample ID: 320-37345-21
Date Collected: 03/09/18 11:07
Matrix: Air
Date Received: 03/22/18 09:05
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/05/18 18:23	1
4-Ethyltoluene	2.0	U M	3.9	0.92	ug/m3			04/05/18 18:23	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/05/18 18:23	1
Acetone	**19**		12	0.42	ug/m3			04/05/18 18:23	1
Benzene	**0.99**	**J**	1.3	0.25	ug/m3			04/05/18 18:23	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 18:23	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 18:23	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 18:23	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 18:23	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 18:23	1
Carbon disulfide	**11**		2.5	0.47	ug/m3			04/05/18 18:23	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/05/18 18:23	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 18:23	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 18:23	1
Chloroform	**1.2**	**J**	1.5	0.46	ug/m3			04/05/18 18:23	1
Chloromethane	**1.8**		1.7	0.41	ug/m3			04/05/18 18:23	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 18:23	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 18:23	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 18:23	1
Dichlorodifluoromethane	**3.0**	**J**	4.0	0.72	ug/m3			04/05/18 18:23	1
Ethylbenzene	**0.29**	**J**	1.7	0.27	ug/m3			04/05/18 18:23	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 18:23	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 18:23	1
Methylene Chloride	**0.50**	**J**	1.4	0.25	ug/m3			04/05/18 18:23	1
m-Xylene & p-Xylene	**1.0**	**J**	3.5	0.43	ug/m3			04/05/18 18:23	1
Naphthalene	6.3	U M	10	2.9	ug/m3			04/05/18 18:23	1
o-Xylene	**0.47**	**J**	1.7	0.23	ug/m3			04/05/18 18:23	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 18:23	1
Tetrachloroethene	**0.76**	**J**	2.7	0.35	ug/m3			04/05/18 18:23	1
Toluene	**0.81**	**J**	1.5	0.19	ug/m3			04/05/18 18:23	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 18:23	1
trans-1,3-Dichloropropene	0.91	U M	1.8	0.40	ug/m3			04/05/18 18:23	1
Trichloroethene	**57**		4.3	0.56	ug/m3			04/05/18 18:23	1
Trichlorofluoromethane	**35**		4.5	1.1	ug/m3			04/05/18 18:23	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 18:23	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 18:23	1
1,4-Dioxane	**0.54**	**J M**	2.9	0.36	ug/m3			04/05/18 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*04/05/18 18:23*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/05/18 18:23*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*04/05/18 18:23*	*1*

Default Detection Limits

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	LOQ	DL	Units	Method
1,1,1-Trichloroethane	0.11	0.027	ug/m3	TO-15 SIM
1,1-Dichloroethene	0.079	0.020	ug/m3	TO-15 SIM
1,4-Dioxane	0.36	0.036	ug/m3	TO-15 SIM
Benzene	0.16	0.032	ug/m3	TO-15 SIM
Carbon tetrachloride	0.13	0.031	ug/m3	TO-15 SIM
cis-1,2-Dichloroethene	0.079	0.020	ug/m3	TO-15 SIM
Methylene Chloride	0.69	0.17	ug/m3	TO-15 SIM
Tetrachloroethene	0.14	0.068	ug/m3	TO-15 SIM
Trichloroethene	0.11	0.027	ug/m3	TO-15 SIM
Vinyl chloride	0.051	0.013	ug/m3	TO-15 SIM

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	LOQ	DL	Units	Method
1,1,1-Trichloroethane	1.6	0.35	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	2.7	0.47	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	1.2	ug/m3	TO-15
1,1,2-Trichloroethane	2.2	0.37	ug/m3	TO-15
1,1-Dichloroethane	1.2	0.29	ug/m3	TO-15
1,1-Dichloroethene	3.2	0.51	ug/m3	TO-15
1,2,4-Trichlorobenzene	15	3.2	ug/m3	TO-15
1,2,4-Trimethylbenzene	3.9	0.80	ug/m3	TO-15
1,2-Dibromoethane (EDB)	6.1	0.58	ug/m3	TO-15
1,2-Dichlorobenzene	4.8	0.78	ug/m3	TO-15
1,2-Dichloroethane	3.2	0.36	ug/m3	TO-15
1,2-Dichloropropane	4.6	1.1	ug/m3	TO-15
1,3,5-Trimethylbenzene	3.9	0.61	ug/m3	TO-15
1,3-Dichlorobenzene	4.8	0.66	ug/m3	TO-15
1,4-Dichlorobenzene	4.8	0.90	ug/m3	TO-15
1,4-Dioxane	2.9	0.36	ug/m3	TO-15
2-Butanone (MEK)	2.4	0.59	ug/m3	TO-15
2-Hexanone	1.6	0.36	ug/m3	TO-15
4-Ethyltoluene	3.9	0.92	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	3.3	0.55	ug/m3	TO-15
Acetone	12	0.42	ug/m3	TO-15
Benzene	1.3	0.25	ug/m3	TO-15
Benzyl chloride	4.1	0.84	ug/m3	TO-15
Bromodichloromethane	2.0	0.44	ug/m3	TO-15
Bromoform	4.1	0.72	ug/m3	TO-15
Bromomethane	3.9	1.3	ug/m3	TO-15
Butadiene	1.8	0.34	ug/m3	TO-15
Carbon disulfide	2.5	0.47	ug/m3	TO-15
Carbon tetrachloride	5.0	0.94	ug/m3	TO-15
Chlorobenzene	1.4	0.29	ug/m3	TO-15
Chloroethane	2.6	0.81	ug/m3	TO-15
Chloroform	1.5	0.46	ug/m3	TO-15
Chloromethane	1.7	0.41	ug/m3	TO-15
cis-1,2-Dichloroethene	1.6	0.35	ug/m3	TO-15
cis-1,3-Dichloropropene	3.6	0.47	ug/m3	TO-15
Dibromochloromethane	3.4	0.67	ug/m3	TO-15
Dichlorodifluoromethane	4.0	0.72	ug/m3	TO-15
Ethylbenzene	1.7	0.27	ug/m3	TO-15

Default Detection Limits

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	LOQ	DL	Units	Method
Hexachlorobutadiene	21	4.6	ug/m3	TO-15
Methyl tert-butyl ether	2.9	0.43	ug/m3	TO-15
Methylene Chloride	1.4	0.25	ug/m3	TO-15
m-Xylene & p-Xylene	3.5	0.43	ug/m3	TO-15
Naphthalene	10	2.9	ug/m3	TO-15
o-Xylene	1.7	0.23	ug/m3	TO-15
Styrene	1.7	0.25	ug/m3	TO-15
Tetrachloroethene	2.7	0.35	ug/m3	TO-15
Toluene	1.5	0.19	ug/m3	TO-15
trans-1,2-Dichloroethene	1.6	0.40	ug/m3	TO-15
trans-1,3-Dichloropropene	1.8	0.40	ug/m3	TO-15
Trichloroethene	4.3	0.56	ug/m3	TO-15
Trichlorofluoromethane	4.5	1.1	ug/m3	TO-15
Vinyl acetate	2.8	0.51	ug/m3	TO-15
Vinyl chloride	2.0	0.31	ug/m3	TO-15

Surrogate Summary

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
320-37345-1	774VMP-1_0318	109	97	97
320-37345-2	774VMP-2_0318	109	91	98
320-37345-3	774VMP-3_0318	114	97	90
320-37345-5	776VMP-1_0318	111	90	96
320-37345-6	776VMP-2_0318	111	98	100
320-37345-7	776VMP-2_0318-a	110	84	95
320-37345-8	776VMP-3_0318	104	88	106
320-37345-10	776OA-1_0318	114	84	96
320-37345-11	785VMP-2_0318	114	98	99
320-37345-12	785VMP-2_0318-a	115	96	104
320-37345-13	785VMP-4_0318	108	98	99
320-37345-14	785VMP-5_0318	111	95	95
320-37345-16	786VMP-1_0318	110	108	99
320-37345-17	786VMP-2_0318	110	102	97
320-37345-18	786VMP-3_0318	111	96	105
320-37345-20	785OA-1_0318	110	89	101
320-37345-21	774776INF_0318	112	96	92
LCS 320-216210/3	Lab Control Sample	112	107	101
LCS 320-216406/3	Lab Control Sample	115	107	101
LCSD 320-216210/4	Lab Control Sample Dup	113	106	100
LCSD 320-216406/4	Lab Control Sample Dup	115	108	102
MB 320-216210/7	Method Blank	106	87	102
MB 320-216406/6	Method Blank	109	83	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DCA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
LCS 320-217160/3	Lab Control Sample	103	97	98
LCSD 320-217160/4	Lab Control Sample Dup	103	98	97
MB 320-217160/7	Method Blank	90	97	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 320-216210/7
Matrix: Air
Analysis Batch: 216210

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-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/04/18 15:07	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/04/18 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/04/18 15:07	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/04/18 15:07	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/04/18 15:07	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/04/18 15:07	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/04/18 15:07	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/04/18 15:07	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/04/18 15:07	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/04/18 15:07	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/04/18 15:07	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/04/18 15:07	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/04/18 15:07	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/04/18 15:07	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/04/18 15:07	1
2-Butanone (MEK)	1.2	U	2.4	0.59	ug/m3			04/04/18 15:07	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/04/18 15:07	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/04/18 15:07	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/04/18 15:07	1
Acetone	0.95	U M	12	0.42	ug/m3			04/04/18 15:07	1
Benzene	0.64	U	1.3	0.25	ug/m3			04/04/18 15:07	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/04/18 15:07	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/04/18 15:07	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/04/18 15:07	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/04/18 15:07	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/04/18 15:07	1
Carbon disulfide	1.2	U	2.5	0.47	ug/m3			04/04/18 15:07	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/04/18 15:07	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/04/18 15:07	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/04/18 15:07	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/04/18 15:07	1
Chloromethane	0.83	U	1.7	0.41	ug/m3			04/04/18 15:07	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/04/18 15:07	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/04/18 15:07	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/04/18 15:07	1
Dichlorodifluoromethane	2.0	U	4.0	0.72	ug/m3			04/04/18 15:07	1
Ethylbenzene	0.87	U	1.7	0.27	ug/m3			04/04/18 15:07	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/04/18 15:07	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/04/18 15:07	1
Methylene Chloride	0.69	U	1.4	0.25	ug/m3			04/04/18 15:07	1
m-Xylene & p-Xylene	0.87	U	3.5	0.43	ug/m3			04/04/18 15:07	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/04/18 15:07	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/04/18 15:07	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/04/18 15:07	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/04/18 15:07	1
Toluene	0.75	U	1.5	0.19	ug/m3			04/04/18 15:07	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/04/18 15:07	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/04/18 15:07	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 320-216210/7
Matrix: Air
Analysis Batch: 216210

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/04/18 15:07	1
Trichlorofluoromethane	2.2	U	4.5	1.1	ug/m3			04/04/18 15:07	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/04/18 15:07	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/04/18 15:07	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/04/18 15:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/04/18 15:07*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*04/04/18 15:07*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/04/18 15:07*	*1*

Lab Sample ID: LCS 320-216210/3
Matrix: Air
Analysis Batch: 216210

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-Trichloroethane	109	117		ug/m3		107	68 - 125
1,1,2,2-Tetrachloroethane	137	139		ug/m3		101	65 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	153	158		ug/m3		103	66 - 126
1,1,2-Trichloroethane	109	109		ug/m3		100	73 - 119
1,1-Dichloroethane	80.9	86.1		ug/m3		106	68 - 126
1,1-Dichloroethene	79.3	88.4		ug/m3		112	61 - 133
1,2,4-Trichlorobenzene	148	147		ug/m3		99	55 - 142
1,2,4-Trimethylbenzene	98.3	109		ug/m3		111	66 - 132
1,2-Dibromoethane (EDB)	154	155		ug/m3		101	74 - 122
1,2-Dichlorobenzene	120	125		ug/m3		104	63 - 129
1,2-Dichloroethane	80.9	92.4		ug/m3		114	65 - 128
1,2-Dichloropropane	92.4	104		ug/m3		112	69 - 123
1,3,5-Trimethylbenzene	98.3	103		ug/m3		104	67 - 130
1,3-Dichlorobenzene	120	129		ug/m3		107	65 - 130
1,4-Dichlorobenzene	120	126		ug/m3		104	60 - 131
2-Butanone (MEK)	59.0	60.9		ug/m3		103	67 - 130
2-Hexanone	82.0	87.3		ug/m3		107	62 - 128
4-Ethyltoluene	98.3	108		ug/m3		110	67 - 129
4-Methyl-2-pentanone (MIBK)	81.9	92.3		ug/m3		113	67 - 130
Acetone	47.5	52.8		ug/m3		111	58 - 128
Benzene	63.9	65.8		ug/m3		103	69 - 119
Benzyl chloride	82.8	75.4		ug/m3		91	50 - 147
Bromodichloromethane	134	141		ug/m3		106	72 - 128
Bromoform	207	205		ug/m3		99	66 - 139
Bromomethane	77.7	73.3		ug/m3		94	63 - 134
Butadiene	44.2	52.4		ug/m3		119	66 - 134
Carbon disulfide	62.3	64.4		ug/m3		103	57 - 134
Carbon tetrachloride	126	117		ug/m3		93	68 - 132
Chlorobenzene	92.1	92.4		ug/m3		100	70 - 119
Chloroethane	52.8	56.8		ug/m3		108	63 - 127
Chloroform	97.7	105		ug/m3		108	68 - 123

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 320-216210/3
Matrix: Air
Analysis Batch: 216210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	41.3	44.3		ug/m3		107	59 - 132
cis-1,2-Dichloroethene	79.3	80.8		ug/m3		102	70 - 121
cis-1,3-Dichloropropene	90.8	95.5		ug/m3		105	70 - 128
Dibromochloromethane	170	173		ug/m3		101	70 - 130
Dichlorodifluoromethane	98.9	93.3		ug/m3		94	59 - 128
Ethylbenzene	86.8	92.7		ug/m3		107	70 - 124
Hexachlorobutadiene	213	204		ug/m3		96	56 - 138
Methyl tert-butyl ether	72.1	77.7		ug/m3		108	66 - 126
Methylene Chloride	69.5	74.9		ug/m3		108	62 - 115
m-Xylene & p-Xylene	174	189		ug/m3		109	61 - 134
Naphthalene	105	89.8		ug/m3		86	57 - 138
o-Xylene	86.8	95.4		ug/m3		110	67 - 125
Styrene	85.2	96.0		ug/m3		113	73 - 127
Tetrachloroethene	136	134		ug/m3		99	66 - 124
Toluene	75.4	76.8		ug/m3		102	66 - 119
trans-1,2-Dichloroethene	79.3	85.5		ug/m3		108	67 - 124
trans-1,3-Dichloropropene	90.8	95.4		ug/m3		105	75 - 133
Trichloroethene	107	109		ug/m3		102	71 - 123
Trichlorofluoromethane	112	123		ug/m3		110	62 - 126
Vinyl acetate	70.4	71.9		ug/m3		102	56 - 139
Vinyl chloride	51.1	52.8		ug/m3		103	64 - 127
1,4-Dioxane	72.1	69.6		ug/m3		97	71 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 320-216210/4
Matrix: Air
Analysis Batch: 216210

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-Trichloroethane	109	117		ug/m3		107	68 - 125	0	25
1,1,2,2-Tetrachloroethane	137	140		ug/m3		102	65 - 127	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	153	158		ug/m3		103	66 - 126	0	25
1,1,2-Trichloroethane	109	110		ug/m3		101	73 - 119	1	25
1,1-Dichloroethane	80.9	86.6		ug/m3		107	68 - 126	1	25
1,1-Dichloroethene	79.3	87.9		ug/m3		111	61 - 133	1	25
1,2,4-Trichlorobenzene	148	148		ug/m3		99	55 - 142	0	25
1,2,4-Trimethylbenzene	98.3	110		ug/m3		111	66 - 132	0	25
1,2-Dibromoethane (EDB)	154	157		ug/m3		102	74 - 122	1	25
1,2-Dichlorobenzene	120	125		ug/m3		104	63 - 129	0	25
1,2-Dichloroethane	80.9	90.8		ug/m3		112	65 - 128	2	25
1,2-Dichloropropane	92.4	103		ug/m3		112	69 - 123	1	25
1,3,5-Trimethylbenzene	98.3	104		ug/m3		105	67 - 130	1	25
1,3-Dichlorobenzene	120	130		ug/m3		108	65 - 130	1	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 320-216210/4
Matrix: Air
Analysis Batch: 216210

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
1,4-Dichlorobenzene			120	127		ug/m3		105	60 - 131	1	25
2-Butanone (MEK)			59.0	62.4		ug/m3		106	67 - 130	2	25
2-Hexanone			82.0	88.5		ug/m3		108	62 - 128	1	25
4-Ethyltoluene			98.3	108		ug/m3		110	67 - 129	0	25
4-Methyl-2-pentanone (MIBK)			81.9	91.2		ug/m3		111	67 - 130	1	25
Acetone			47.5	52.4		ug/m3		110	58 - 128	1	25
Benzene			63.9	65.2		ug/m3		102	69 - 119	1	25
Benzyl chloride			82.8	75.4		ug/m3		91	50 - 147	0	25
Bromodichloromethane			134	141		ug/m3		105	72 - 128	1	25
Bromoform			207	207		ug/m3		100	66 - 139	1	25
Bromomethane			77.7	74.7		ug/m3		96	63 - 134	2	25
Butadiene			44.2	52.7		ug/m3		119	66 - 134	1	25
Carbon disulfide			62.3	64.4		ug/m3		103	57 - 134	0	25
Carbon tetrachloride			126	114		ug/m3		91	68 - 132	2	25
Chlorobenzene			92.1	92.5		ug/m3		100	70 - 119	0	25
Chloroethane			52.8	57.4		ug/m3		109	63 - 127	1	25
Chloroform			97.7	105		ug/m3		107	68 - 123	0	25
Chloromethane			41.3	44.6		ug/m3		108	59 - 132	1	25
cis-1,2-Dichloroethene			79.3	80.9		ug/m3		102	70 - 121	0	25
cis-1,3-Dichloropropene			90.8	94.8		ug/m3		104	70 - 128	1	25
Dibromochloromethane			170	174		ug/m3		102	70 - 130	1	25
Dichlorodifluoromethane			98.9	93.2		ug/m3		94	59 - 128	0	25
Ethylbenzene			86.8	93.1		ug/m3		107	70 - 124	0	25
Hexachlorobutadiene			213	208		ug/m3		97	56 - 138	2	25
Methyl tert-butyl ether			72.1	78.1		ug/m3		108	66 - 126	1	25
Methylene Chloride			69.5	74.8		ug/m3		108	62 - 115	0	25
m-Xylene & p-Xylene			174	189		ug/m3		109	61 - 134	0	25
Naphthalene			105	91.0		ug/m3		87	57 - 138	1	25
o-Xylene			86.8	95.7		ug/m3		110	67 - 125	0	25
Styrene			85.2	96.8		ug/m3		114	73 - 127	1	25
Tetrachloroethene			136	134		ug/m3		99	66 - 124	0	25
Toluene			75.4	75.9		ug/m3		101	66 - 119	1	25
trans-1,2-Dichloroethene			79.3	85.2		ug/m3		107	67 - 124	0	25
trans-1,3-Dichloropropene			90.8	96.8		ug/m3		107	75 - 133	1	25
Trichloroethene			107	108		ug/m3		101	71 - 123	1	25
Trichlorofluoromethane			112	122		ug/m3		109	62 - 126	1	25
Vinyl acetate			70.4	72.3		ug/m3		103	56 - 139	0	25
Vinyl chloride			51.1	53.0		ug/m3		104	64 - 127	0	25
1,4-Dioxane			72.1	68.6		ug/m3		95	71 - 122	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 320-216406/6
Matrix: Air
Analysis Batch: 216406

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-Trichloroethane	1.1	U	1.6	0.35	ug/m3			04/05/18 16:27	1
1,1,2,2-Tetrachloroethane	1.4	U	2.7	0.47	ug/m3			04/05/18 16:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	1.2	ug/m3			04/05/18 16:27	1
1,1,2-Trichloroethane	1.1	U	2.2	0.37	ug/m3			04/05/18 16:27	1
1,1-Dichloroethane	0.81	U	1.2	0.29	ug/m3			04/05/18 16:27	1
1,1-Dichloroethene	1.6	U	3.2	0.51	ug/m3			04/05/18 16:27	1
1,2,4-Trichlorobenzene	8.9	U	15	3.2	ug/m3			04/05/18 16:27	1
1,2,4-Trimethylbenzene	2.0	U	3.9	0.80	ug/m3			04/05/18 16:27	1
1,2-Dibromoethane (EDB)	1.5	U	6.1	0.58	ug/m3			04/05/18 16:27	1
1,2-Dichlorobenzene	2.4	U	4.8	0.78	ug/m3			04/05/18 16:27	1
1,2-Dichloroethane	0.81	U	3.2	0.36	ug/m3			04/05/18 16:27	1
1,2-Dichloropropane	3.7	U	4.6	1.1	ug/m3			04/05/18 16:27	1
1,3,5-Trimethylbenzene	2.0	U	3.9	0.61	ug/m3			04/05/18 16:27	1
1,3-Dichlorobenzene	2.4	U	4.8	0.66	ug/m3			04/05/18 16:27	1
1,4-Dichlorobenzene	2.4	U	4.8	0.90	ug/m3			04/05/18 16:27	1
2-Butanone (MEK)	1.2	U	2.4	0.59	ug/m3			04/05/18 16:27	1
2-Hexanone	0.82	U	1.6	0.36	ug/m3			04/05/18 16:27	1
4-Ethyltoluene	2.0	U	3.9	0.92	ug/m3			04/05/18 16:27	1
4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	0.55	ug/m3			04/05/18 16:27	1
Acetone	0.95	U M	12	0.42	ug/m3			04/05/18 16:27	1
Benzene	0.64	U	1.3	0.25	ug/m3			04/05/18 16:27	1
Benzyl chloride	2.1	U	4.1	0.84	ug/m3			04/05/18 16:27	1
Bromodichloromethane	1.3	U	2.0	0.44	ug/m3			04/05/18 16:27	1
Bromoform	2.1	U	4.1	0.72	ug/m3			04/05/18 16:27	1
Bromomethane	3.1	U	3.9	1.3	ug/m3			04/05/18 16:27	1
Butadiene	0.88	U	1.8	0.34	ug/m3			04/05/18 16:27	1
Carbon disulfide	1.2	U	2.5	0.47	ug/m3			04/05/18 16:27	1
Carbon tetrachloride	2.5	U	5.0	0.94	ug/m3			04/05/18 16:27	1
Chlorobenzene	0.92	U	1.4	0.29	ug/m3			04/05/18 16:27	1
Chloroethane	2.1	U	2.6	0.81	ug/m3			04/05/18 16:27	1
Chloroform	0.98	U	1.5	0.46	ug/m3			04/05/18 16:27	1
Chloromethane	0.83	U M	1.7	0.41	ug/m3			04/05/18 16:27	1
cis-1,2-Dichloroethene	0.79	U	1.6	0.35	ug/m3			04/05/18 16:27	1
cis-1,3-Dichloropropene	1.8	U	3.6	0.47	ug/m3			04/05/18 16:27	1
Dibromochloromethane	1.7	U	3.4	0.67	ug/m3			04/05/18 16:27	1
Dichlorodifluoromethane	2.0	U	4.0	0.72	ug/m3			04/05/18 16:27	1
Ethylbenzene	0.87	U	1.7	0.27	ug/m3			04/05/18 16:27	1
Hexachlorobutadiene	13	U	21	4.6	ug/m3			04/05/18 16:27	1
Methyl tert-butyl ether	1.4	U	2.9	0.43	ug/m3			04/05/18 16:27	1
Methylene Chloride	0.69	U	1.4	0.25	ug/m3			04/05/18 16:27	1
m-Xylene & p-Xylene	0.87	U	3.5	0.43	ug/m3			04/05/18 16:27	1
Naphthalene	6.3	U	10	2.9	ug/m3			04/05/18 16:27	1
o-Xylene	0.87	U	1.7	0.23	ug/m3			04/05/18 16:27	1
Styrene	0.85	U	1.7	0.25	ug/m3			04/05/18 16:27	1
Tetrachloroethene	1.4	U	2.7	0.35	ug/m3			04/05/18 16:27	1
Toluene	0.75	U	1.5	0.19	ug/m3			04/05/18 16:27	1
trans-1,2-Dichloroethene	0.79	U	1.6	0.40	ug/m3			04/05/18 16:27	1
trans-1,3-Dichloropropene	0.91	U	1.8	0.40	ug/m3			04/05/18 16:27	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 320-216406/6
Matrix: Air
Analysis Batch: 216406

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.1	U	4.3	0.56	ug/m3			04/05/18 16:27	1
Trichlorofluoromethane	2.2	U	4.5	1.1	ug/m3			04/05/18 16:27	1
Vinyl acetate	1.4	U	2.8	0.51	ug/m3			04/05/18 16:27	1
Vinyl chloride	1.0	U	2.0	0.31	ug/m3			04/05/18 16:27	1
1,4-Dioxane	1.4	U	2.9	0.36	ug/m3			04/05/18 16:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/05/18 16:27*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*04/05/18 16:27*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/05/18 16:27*	*1*

Lab Sample ID: LCS 320-216406/3
Matrix: Air
Analysis Batch: 216406

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-Trichloroethane	109	118		ug/m3		108	68 - 125
1,1,2,2-Tetrachloroethane	137	135		ug/m3		98	65 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	153	156		ug/m3		102	66 - 126
1,1,2-Trichloroethane	109	109		ug/m3		100	73 - 119
1,1-Dichloroethane	80.9	85.7		ug/m3		106	68 - 126
1,1-Dichloroethene	79.3	87.3		ug/m3		110	61 - 133
1,2,4-Trichlorobenzene	148	139		ug/m3		94	55 - 142
1,2,4-Trimethylbenzene	98.3	103		ug/m3		104	66 - 132
1,2-Dibromoethane (EDB)	154	153		ug/m3		100	74 - 122
1,2-Dichlorobenzene	120	122		ug/m3		101	63 - 129
1,2-Dichloroethane	80.9	92.7		ug/m3		115	65 - 128
1,2-Dichloropropane	92.4	104		ug/m3		112	69 - 123
1,3,5-Trimethylbenzene	98.3	99.2		ug/m3		101	67 - 130
1,3-Dichlorobenzene	120	124		ug/m3		103	65 - 130
1,4-Dichlorobenzene	120	120		ug/m3		100	60 - 131
2-Butanone (MEK)	59.0	61.7		ug/m3		105	67 - 130
2-Hexanone	82.0	85.2		ug/m3		104	62 - 128
4-Ethyltoluene	98.3	104		ug/m3		106	67 - 129
4-Methyl-2-pentanone (MIBK)	81.9	91.6		ug/m3		112	67 - 130
Acetone	47.5	52.9		ug/m3		111	58 - 128
Benzene	63.9	65.5		ug/m3		102	69 - 119
Benzyl chloride	82.8	71.4		ug/m3		86	50 - 147
Bromodichloromethane	134	142		ug/m3		106	72 - 128
Bromoform	207	199		ug/m3		96	66 - 139
Bromomethane	77.7	77.8		ug/m3		100	63 - 134
Butadiene	44.2	50.5		ug/m3		114	66 - 134
Carbon disulfide	62.3	62.8		ug/m3		101	57 - 134
Carbon tetrachloride	126	114		ug/m3		91	68 - 132
Chlorobenzene	92.1	89.7		ug/m3		97	70 - 119
Chloroethane	52.8	55.3		ug/m3		105	63 - 127
Chloroform	97.7	104		ug/m3		107	68 - 123

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 320-216406/3
Matrix: Air
Analysis Batch: 216406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	41.3	44.9		ug/m3		109	59 - 132
cis-1,2-Dichloroethene	79.3	80.1		ug/m3		101	70 - 121
cis-1,3-Dichloropropene	90.8	94.9		ug/m3		105	70 - 128
Dibromochloromethane	170	170		ug/m3		100	70 - 130
Dichlorodifluoromethane	98.9	90.2		ug/m3		91	59 - 128
Ethylbenzene	86.8	89.5		ug/m3		103	70 - 124
Hexachlorobutadiene	213	196		ug/m3		92	56 - 138
Methyl tert-butyl ether	72.1	77.1		ug/m3		107	66 - 126
Methylene Chloride	69.5	74.4		ug/m3		107	62 - 115
m-Xylene & p-Xylene	174	182		ug/m3		105	61 - 134
Naphthalene	105	86.1		ug/m3		82	57 - 138
o-Xylene	86.8	92.4		ug/m3		106	67 - 125
Styrene	85.2	92.7		ug/m3		109	73 - 127
Tetrachloroethene	136	130		ug/m3		96	66 - 124
Toluene	75.4	75.2		ug/m3		100	66 - 119
trans-1,2-Dichloroethene	79.3	84.3		ug/m3		106	67 - 124
trans-1,3-Dichloropropene	90.8	95.1		ug/m3		105	75 - 133
Trichloroethene	107	108		ug/m3		101	71 - 123
Trichlorofluoromethane	112	122		ug/m3		108	62 - 126
Vinyl acetate	70.4	72.2		ug/m3		103	56 - 139
Vinyl chloride	51.1	52.0		ug/m3		102	64 - 127
1,4-Dioxane	72.1	68.7		ug/m3		95	71 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 320-216406/4
Matrix: Air
Analysis Batch: 216406

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-Trichloroethane	109	117		ug/m3		108	68 - 125	1	25
1,1,2,2-Tetrachloroethane	137	135		ug/m3		98	65 - 127	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	153	155		ug/m3		101	66 - 126	1	25
1,1,2-Trichloroethane	109	108		ug/m3		99	73 - 119	1	25
1,1-Dichloroethane	80.9	86.4		ug/m3		107	68 - 126	1	25
1,1-Dichloroethene	79.3	87.3		ug/m3		110	61 - 133	0	25
1,2,4-Trichlorobenzene	148	142		ug/m3		96	55 - 142	2	25
1,2,4-Trimethylbenzene	98.3	106		ug/m3		108	66 - 132	4	25
1,2-Dibromoethane (EDB)	154	153		ug/m3		99	74 - 122	1	25
1,2-Dichlorobenzene	120	121		ug/m3		101	63 - 129	0	25
1,2-Dichloroethane	80.9	93.2		ug/m3		115	65 - 128	1	25
1,2-Dichloropropane	92.4	105		ug/m3		114	69 - 123	1	25
1,3,5-Trimethylbenzene	98.3	99.5		ug/m3		101	67 - 130	0	25
1,3-Dichlorobenzene	120	125		ug/m3		104	65 - 130	1	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 320-216406/4
Matrix: Air
Analysis Batch: 216406

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
1,4-Dichlorobenzene			120	120		ug/m3		100	60 - 131	0	25
2-Butanone (MEK)			59.0	62.0		ug/m3		105	67 - 130	1	25
2-Hexanone			82.0	85.5		ug/m3		104	62 - 128	0	25
4-Ethyltoluene			98.3	106		ug/m3		107	67 - 129	2	25
4-Methyl-2-pentanone (MIBK)			81.9	92.1		ug/m3		112	67 - 130	1	25
Acetone			47.5	52.7		ug/m3		111	58 - 128	0	25
Benzene			63.9	66.1		ug/m3		103	69 - 119	1	25
Benzyl chloride			82.8	71.9		ug/m3		87	50 - 147	1	25
Bromodichloromethane			134	144		ug/m3		107	72 - 128	1	25
Bromoform			207	199		ug/m3		96	66 - 139	0	25
Bromomethane			77.7	87.0		ug/m3		112	63 - 134	11	25
Butadiene			44.2	47.7		ug/m3		108	66 - 134	6	25
Carbon disulfide			62.3	63.8		ug/m3		102	57 - 134	2	25
Carbon tetrachloride			126	115		ug/m3		91	68 - 132	1	25
Chlorobenzene			92.1	90.2		ug/m3		98	70 - 119	1	25
Chloroethane			52.8	56.0		ug/m3		106	63 - 127	1	25
Chloroform			97.7	105		ug/m3		107	68 - 123	0	25
Chloromethane			41.3	44.4		ug/m3		107	59 - 132	1	25
cis-1,2-Dichloroethene			79.3	81.3		ug/m3		103	70 - 121	2	25
cis-1,3-Dichloropropene			90.8	95.8		ug/m3		105	70 - 128	1	25
Dibromochloromethane			170	170		ug/m3		100	70 - 130	0	25
Dichlorodifluoromethane			98.9	91.2		ug/m3		92	59 - 128	1	25
Ethylbenzene			86.8	90.2		ug/m3		104	70 - 124	1	25
Hexachlorobutadiene			213	196		ug/m3		92	56 - 138	0	25
Methyl tert-butyl ether			72.1	78.0		ug/m3		108	66 - 126	1	25
Methylene Chloride			69.5	74.3		ug/m3		107	62 - 115	0	25
m-Xylene & p-Xylene			174	182		ug/m3		105	61 - 134	0	25
Naphthalene			105	84.5		ug/m3		81	57 - 138	2	25
o-Xylene			86.8	92.9		ug/m3		107	67 - 125	0	25
Styrene			85.2	93.6		ug/m3		110	73 - 127	1	25
Tetrachloroethene			136	130		ug/m3		96	66 - 124	0	25
Toluene			75.4	76.3		ug/m3		101	66 - 119	1	25
trans-1,2-Dichloroethene			79.3	84.8		ug/m3		107	67 - 124	1	25
trans-1,3-Dichloropropene			90.8	94.4		ug/m3		104	75 - 133	1	25
Trichloroethene			107	109		ug/m3		102	71 - 123	1	25
Trichlorofluoromethane			112	121		ug/m3		108	62 - 126	0	25
Vinyl acetate			70.4	72.0		ug/m3		102	56 - 139	0	25
Vinyl chloride			51.1	51.8		ug/m3		101	64 - 127	0	25
1,4-Dioxane			72.1	69.4		ug/m3		96	71 - 122	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 320-217160/7
Matrix: Air
Analysis Batch: 217160

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-Trichloroethane	0.055	U	0.11	0.027	ug/m3			04/10/18 14:17	1
1,1-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 14:17	1
Benzene	0.064	U	0.16	0.032	ug/m3			04/10/18 14:17	1
Carbon tetrachloride	0.063	U	0.13	0.031	ug/m3			04/10/18 14:17	1
cis-1,2-Dichloroethene	0.040	U	0.079	0.020	ug/m3			04/10/18 14:17	1
Methylene Chloride	0.35	U	0.69	0.17	ug/m3			04/10/18 14:17	1
Tetrachloroethene	0.14	U	0.14	0.068	ug/m3			04/10/18 14:17	1
Trichloroethene	0.054	U	0.11	0.027	ug/m3			04/10/18 14:17	1
Vinyl chloride	0.026	U	0.051	0.013	ug/m3			04/10/18 14:17	1
1,4-Dioxane	0.072	U	0.36	0.036	ug/m3			04/10/18 14:17	1

Lab Sample ID: LCS 320-217160/3
Matrix: Air
Analysis Batch: 217160

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-Trichloroethane	6.55	6.39		ug/m3		98	68 - 125
1,1-Dichloroethene	4.76	4.32		ug/m3		91	61 - 133
Benzene	3.83	3.37		ug/m3		88	69 - 119
Carbon tetrachloride	7.55	7.31		ug/m3		97	68 - 132
cis-1,2-Dichloroethene	4.76	4.41		ug/m3		93	70 - 121
Methylene Chloride	4.17	3.81		ug/m3		91	62 - 115
Tetrachloroethene	8.14	7.26		ug/m3		89	66 - 124
Trichloroethene	6.45	5.71		ug/m3		88	71 - 123
Vinyl chloride	3.07	2.65		ug/m3		86	64 - 127
1,4-Dioxane	4.32	3.83		ug/m3		89	71 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 320-217160/4
Matrix: Air
Analysis Batch: 217160

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-Trichloroethane	6.55	6.51		ug/m3		99	68 - 125	2	25
1,1-Dichloroethene	4.76	4.45		ug/m3		94	61 - 133	3	25
Benzene	3.83	3.44		ug/m3		90	69 - 119	2	25
Carbon tetrachloride	7.55	7.46		ug/m3		99	68 - 132	2	25
cis-1,2-Dichloroethene	4.76	4.51		ug/m3		95	70 - 121	2	25
Methylene Chloride	4.17	3.88		ug/m3		93	62 - 115	2	25
Tetrachloroethene	8.14	7.36		ug/m3		90	66 - 124	1	25
Trichloroethene	6.45	5.81		ug/m3		90	71 - 123	2	25
Vinyl chloride	3.07	2.72		ug/m3		89	64 - 127	3	25
1,4-Dioxane	4.32	3.67		ug/m3		85	71 - 122	4	25

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCSD 320-217160/4
Matrix: Air
Analysis Batch: 217160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130

QC Association Summary

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Air - GC/MS VOA

Analysis Batch: 216210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37345-1	774VMP-1_0318	Total/NA	Air	TO-15	
320-37345-2	774VMP-2_0318	Total/NA	Air	TO-15	
320-37345-3	774VMP-3_0318	Total/NA	Air	TO-15	
320-37345-5	776VMP-1_0318	Total/NA	Air	TO-15	
320-37345-6	776VMP-2_0318	Total/NA	Air	TO-15	
320-37345-7	776VMP-2_0318-a	Total/NA	Air	TO-15	
320-37345-8	776VMP-3_0318	Total/NA	Air	TO-15	
MB 320-216210/7	Method Blank	Total/NA	Air	TO-15	
LCS 320-216210/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-216210/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 216406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37345-10	776OA-1_0318	Total/NA	Air	TO-15	
320-37345-11	785VMP-2_0318	Total/NA	Air	TO-15	
320-37345-12	785VMP-2_0318-a	Total/NA	Air	TO-15	
320-37345-13	785VMP-4_0318	Total/NA	Air	TO-15	
320-37345-14	785VMP-5_0318	Total/NA	Air	TO-15	
320-37345-16	786VMP-1_0318	Total/NA	Air	TO-15	
320-37345-17	786VMP-2_0318	Total/NA	Air	TO-15	
320-37345-18	786VMP-3_0318	Total/NA	Air	TO-15	
320-37345-20	785OA-1_0318	Total/NA	Air	TO-15	
320-37345-21	774776INF_0318	Total/NA	Air	TO-15	
MB 320-216406/6	Method Blank	Total/NA	Air	TO-15	
LCS 320-216406/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-216406/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 217160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37345-4	774IA-1_0318	Total/NA	Air	TO-15 SIM	
320-37345-9	776IA-1_0318	Total/NA	Air	TO-15 SIM	
320-37345-15	785IA-1_0318	Total/NA	Air	TO-15 SIM	
320-37345-19	786IA-1_0318	Total/NA	Air	TO-15 SIM	
MB 320-217160/7	Method Blank	Total/NA	Air	TO-15 SIM	
LCS 320-217160/3	Lab Control Sample	Total/NA	Air	TO-15 SIM	
LCSD 320-217160/4	Lab Control Sample Dup	Total/NA	Air	TO-15 SIM	

Lab Chronicle

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Client Sample ID: 774VMP-1_0318
Lab Sample ID: 320-37345-1
Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/04/18 19:39	AP1	TAL SAC

Client Sample ID: 774VMP-2_0318
Lab Sample ID: 320-37345-2
Date Collected: 03/21/18 15:55
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/04/18 20:36	AP1	TAL SAC

Client Sample ID: 774VMP-3_0318
Lab Sample ID: 320-37345-3
Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/04/18 21:32	AP1	TAL SAC

Client Sample ID: 774IA-1_0318
Lab Sample ID: 320-37345-4
Date Collected: 03/21/18 16:00
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	217160	04/10/18 21:04	AP1	TAL SAC

Client Sample ID: 776VMP-1_0318
Lab Sample ID: 320-37345-5
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/04/18 22:29	AP1	TAL SAC

Client Sample ID: 776VMP-2_0318
Lab Sample ID: 320-37345-6
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/04/18 23:25	AP1	TAL SAC

Lab Chronicle

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Client Sample ID: 776VMP-2_0318-a
Lab Sample ID: 320-37345-7
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/05/18 01:16	AP1	TAL SAC

Client Sample ID: 776VMP-3_0318
Lab Sample ID: 320-37345-8
Date Collected: 03/21/18 15:40
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216210	04/05/18 02:13	AP1	TAL SAC

Client Sample ID: 776IA-1_0318
Lab Sample ID: 320-37345-9
Date Collected: 03/21/18 15:35
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	217160	04/10/18 22:01	AP1	TAL SAC

Client Sample ID: 776OA-1_0318
Lab Sample ID: 320-37345-10
Date Collected: 03/21/18 16:05
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/05/18 19:18	AP1	TAL SAC

Client Sample ID: 785VMP-2_0318
Lab Sample ID: 320-37345-11
Date Collected: 03/21/18 16:55
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/05/18 20:15	AP1	TAL SAC

Client Sample ID: 785VMP-2_0318-a
Lab Sample ID: 320-37345-12
Date Collected: 03/21/18 16:55
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/05/18 21:11	AP1	TAL SAC

Client Sample ID: 785VMP-4_0318
Lab Sample ID: 320-37345-13
Date Collected: 03/21/18 17:00
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/05/18 22:08	AP1	TAL SAC

Client Sample ID: 785VMP-5_0318
Lab Sample ID: 320-37345-14
Date Collected: 03/21/18 17:05
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/06/18 08:21	AP1	TAL SAC

Client Sample ID: 785IA-1_0318
Lab Sample ID: 320-37345-15
Date Collected: 03/21/18 16:45
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	217160	04/10/18 22:56	AP1	TAL SAC

Client Sample ID: 786VMP-1_0318
Lab Sample ID: 320-37345-16
Date Collected: 03/21/18 16:30
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/06/18 00:01	AP1	TAL SAC

Client Sample ID: 786VMP-2_0318
Lab Sample ID: 320-37345-17
Date Collected: 03/21/18 16:35
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/06/18 00:57	AP1	TAL SAC

Client Sample ID: 786VMP-3_0318
Lab Sample ID: 320-37345-18
Date Collected: 03/21/18 16:25
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/06/18 02:48	AP1	TAL SAC

Lab Chronicle

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Client Sample ID: 786IA-1_0318
Lab Sample ID: 320-37345-19
Date Collected: 03/21/18 16:25
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	217160	04/10/18 23:52	AP1	TAL SAC

Client Sample ID: 785OA-1_0318
Lab Sample ID: 320-37345-20
Date Collected: 03/21/18 17:05
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/06/18 03:44	AP1	TAL SAC

Client Sample ID: 774776INF_0318
Lab Sample ID: 320-37345-21
Date Collected: 03/09/18 11:07
Matrix: Air
Date Received: 03/22/18 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	216406	04/05/18 18:23	AP1	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Bhate Environmental
TestAmerica Job ID: 320-37345-1
Project/Site: Griffiss AFB, NY - 774-776 785-786

Laboratory: TestAmerica Sacramento

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 (UST)	State Program	10	17-020	01-20-21
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-18
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-18
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
L-A-B	DoD ELAP		L2468	01-20-21
Louisiana	NELAP	6	30612	06-30-18
Maine	State Program	1	CA0004	04-14-18 *
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-18
New Jersey	NELAP	2	CA005	06-30-18
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-18
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-18
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
New York	NELAP	2	11964	04-01-19

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

Method Summary

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL SAC
TO-15 SIM	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Bhate Environmental
Project/Site: Griffiss AFB, NY - 774-776 785-786

TestAmerica Job ID: 320-37345-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-37345-1	774VMP-1_0318	Air	03/21/18 16:00	03/22/18 09:05
320-37345-2	774VMP-2_0318	Air	03/21/18 15:55	03/22/18 09:05
320-37345-3	774VMP-3_0318	Air	03/21/18 16:00	03/22/18 09:05
320-37345-4	774IA-1_0318	Air	03/21/18 16:00	03/22/18 09:05
320-37345-5	776VMP-1_0318	Air	03/21/18 15:35	03/22/18 09:05
320-37345-6	776VMP-2_0318	Air	03/21/18 15:35	03/22/18 09:05
320-37345-7	776VMP-2_0318-a	Air	03/21/18 15:35	03/22/18 09:05
320-37345-8	776VMP-3_0318	Air	03/21/18 15:40	03/22/18 09:05
320-37345-9	776IA-1_0318	Air	03/21/18 15:35	03/22/18 09:05
320-37345-10	776OA-1_0318	Air	03/21/18 16:05	03/22/18 09:05
320-37345-11	785VMP-2_0318	Air	03/21/18 16:55	03/22/18 09:05
320-37345-12	785VMP-2_0318-a	Air	03/21/18 16:55	03/22/18 09:05
320-37345-13	785VMP-4_0318	Air	03/21/18 17:00	03/22/18 09:05
320-37345-14	785VMP-5_0318	Air	03/21/18 17:05	03/22/18 09:05
320-37345-15	785IA-1_0318	Air	03/21/18 16:45	03/22/18 09:05
320-37345-16	786VMP-1_0318	Air	03/21/18 16:30	03/22/18 09:05
320-37345-17	786VMP-2_0318	Air	03/21/18 16:35	03/22/18 09:05
320-37345-18	786VMP-3_0318	Air	03/21/18 16:25	03/22/18 09:05
320-37345-19	786IA-1_0318	Air	03/21/18 16:25	03/22/18 09:05
320-37345-20	785OA-1_0318	Air	03/21/18 17:05	03/22/18 09:05
320-37345-21	774776INF_0318	Air	03/09/18 11:07	03/22/18 09:05

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 212907

Lab Sample ID: IC 320-212907/3 Client Sample ID:

Date Analyzed: 03/14/18 17:28 Lab File ID: MS7031403.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	5.54	Peak assignment corrected	phanthasena	03/15/18 14:49
Trichlorofluoromethane	6.37	Peak assignment corrected	phanthasena	03/15/18 14:50
Methyl tert-butyl ether	9.26	Peak assignment corrected	phanthasena	03/15/18 14:50
1,2,4-Trichlorobenzene		Invalid Compound ID	leeh	03/15/18 06:25
1,2-Dichloropropane		Invalid Compound ID	leeh	03/15/18 06:22
Acrylonitrile		Invalid Compound ID	leeh	03/15/18 06:21
Benzyl chloride		Invalid Compound ID	phanthasena	03/15/18 14:52
Carbon disulfide		Invalid Compound ID	phanthasena	03/15/18 14:50
Chloroethane		Invalid Compound ID	phanthasena	03/15/18 14:50
cis-1,2-Dichloroethene		Invalid Compound ID	leeh	03/15/18 06:22
Naphthalene		Invalid Compound ID	phanthasena	03/15/18 14:53
n-Butylbenzene		Invalid Compound ID	leeh	03/15/18 06:27
tert-Butyl alcohol (TBA)		Invalid Compound ID	leeh	03/15/18 06:21
Vinyl acetate		Invalid Compound ID	phanthasena	03/15/18 14:50
1,3,5-Trimethylbenzene	24.35	Incomplete Integration	phanthasena	03/15/18 14:51
4-Isopropyltoluene	25.85	Incomplete Integration	phanthasena	03/15/18 14:52
1,4-Dichlorobenzene	26.11	Baseline	leeh	03/15/18 06:27

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 212907

Lab Sample ID: IC 320-212907/4 Client Sample ID:

Date Analyzed: 03/14/18 18:21 Lab File ID: MS7031404.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.35	Baseline	phanthase na	03/15/18 14:37
Trichlorofluoromethane	6.37	Baseline	phanthase na	03/15/18 14:38
1,1,2-Trichloro-1,2,2-trifluoroethane	7.47	Baseline	phanthase na	03/15/18 14:38
Acrylonitrile	8.91	Baseline	phanthase na	03/15/18 14:38
Naphthalene		Invalid Compound ID	phanthase na	03/15/18 14:49
Vinyl acetate		Invalid Compound ID	phanthase na	03/15/18 14:38
1,4-Dichlorobenzene	26.12	Baseline	phanthase na	03/15/18 14:41
n-Butylbenzene	26.73	Incomplete Integration	phanthase na	03/15/18 14:48
1,2-Dichlorobenzene	26.85	Incomplete Integration	phanthase na	03/15/18 14:48
1,2,4-Trichlorobenzene	30.24	Incomplete Integration	phanthase na	03/15/18 14:49

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 212907

Lab Sample ID: IC 320-212907/5 Client Sample ID:

Date Analyzed: 03/14/18 19:13 Lab File ID: MS7031405.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrylonitrile	8.87	Peak assignment corrected	phanthase na	03/15/18 14:30
Hexane	9.85	Peak assignment corrected	phanthase na	03/15/18 14:30
Vinyl acetate		Invalid Compound ID	phanthase na	03/15/18 14:31
1,3,5-Trimethylbenzene	24.35	Incomplete Integration	phanthase na	03/15/18 14:32
1,4-Dichlorobenzene	26.11	Incomplete Integration	phanthase na	03/15/18 14:33
Benzyl chloride	26.28	Incomplete Integration	phanthase na	03/15/18 14:33
n-Butylbenzene	26.72	Assign Peak	phanthase na	03/15/18 14:34
1,2,4-Trichlorobenzene	30.25	Assign Peak	phanthase na	03/15/18 14:34

Lab Sample ID: IC 320-212907/6 Client Sample ID:

Date Analyzed: 03/14/18 20:07 Lab File ID: MS7031406.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	30.19	Incomplete Integration	phanthase na	03/15/18 14:26

Lab Sample ID: ICIS 320-212907/9 Client Sample ID:

Date Analyzed: 03/14/18 22:49 Lab File ID: MS7031409.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	30.59	Peak assignment corrected	phanthase na	03/15/18 14:12

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216210

Lab Sample ID: MB 320-216210/7 Client Sample ID:

Date Analyzed: 04/04/18 15:07 Lab File ID: MS7040407.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	phanthasena	04/05/18 12:24

Lab Sample ID: 320-37345-1 Client Sample ID: 774VMP-1_0318

Date Analyzed: 04/04/18 19:39 Lab File ID: MS7040412.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.50	Incomplete Integration	phanthasena	04/05/18 12:27
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 12:27
Naphthalene		Invalid Compound ID	phanthasena	04/05/18 12:28
1,1,1-Trichloroethane	12.92	Incomplete Integration	phanthasena	04/05/18 12:28

Lab Sample ID: 320-37345-2 Client Sample ID: 774VMP-2_0318

Date Analyzed: 04/04/18 20:36 Lab File ID: MS7040413.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.48	Incomplete Integration	phanthasena	04/05/18 12:28
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 12:29
Trichloroethene	15.18	Incomplete Integration	phanthasena	04/05/18 12:29

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216210

Lab Sample ID: 320-37345-3 Client Sample ID: 774VMP-3_0318

Date Analyzed: 04/04/18 21:32 Lab File ID: MS7040414.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.48	Baseline	phanthasena	04/05/18 12:30
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 12:30
Methyl tert-butyl ether		Invalid Compound ID	phanthasena	04/05/18 12:32
Naphthalene		Invalid Compound ID	phanthasena	04/05/18 12:33
m-Xylene & p-Xylene	21.51	Peak assignment corrected	phanthasena	04/05/18 12:33

Lab Sample ID: 320-37345-5 Client Sample ID: 776VMP-1_0318

Date Analyzed: 04/04/18 22:29 Lab File ID: MS7040415.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.47	Incomplete Integration	phanthasena	04/05/18 13:25
1,2-Dichloroethane		Invalid Compound ID	phanthasena	04/05/18 13:25
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 13:25
m-Xylene & p-Xylene	21.51	Incomplete Integration	phanthasena	04/05/18 13:25

Lab Sample ID: 320-37345-6 Client Sample ID: 776VMP-2_0318

Date Analyzed: 04/04/18 23:25 Lab File ID: MS7040416.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 14:36

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216210

Lab Sample ID: 320-37345-7 Client Sample ID: 776VMP-2_0318-a

Date Analyzed: 04/05/18 01:16 Lab File ID: MS7040418.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	phanthasena	04/05/18 15:59
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 15:59

Lab Sample ID: 320-37345-8 Client Sample ID: 776VMP-3_0318

Date Analyzed: 04/05/18 02:13 Lab File ID: MS7040419.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	phanthasena	04/05/18 17:19
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	phanthasena	04/05/18 17:20
Carbon disulfide		Invalid Compound ID	phanthasena	04/05/18 17:19
Carbon tetrachloride	13.47	Split Peak	phanthasena	04/05/18 17:19
1,3,5-Trimethylbenzene	24.37	Split Peak	phanthasena	04/05/18 17:20

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216406

Lab Sample ID: MB 320-216406/6 Client Sample ID:

Date Analyzed: 04/05/18 16:27 Lab File ID: MS7040507.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	phanthase na	04/06/18 11:30
Chloromethane		Invalid Compound ID	phanthase na	04/06/18 11:30

Lab Sample ID: 320-37345-21 Client Sample ID: 774776INF_0318

Date Analyzed: 04/05/18 18:23 Lab File ID: MS7040509.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.50	Assign Peak	phanthase na	04/06/18 11:33
Naphthalene		Invalid Compound ID	phanthase na	04/06/18 11:33
trans-1,3-Dichloropropene		Invalid Compound ID	phanthase na	04/06/18 11:33
1,4-Dioxane	15.98	Incomplete Integration	phanthase na	04/06/18 11:33
4-Ethyltoluene	24.26	Split Peak	phanthase na	04/06/18 11:33

Lab Sample ID: 320-37345-10 Client Sample ID: 776OA-1_0318

Date Analyzed: 04/05/18 19:18 Lab File ID: MS7040510.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene	21.53	Peak assignment corrected	phanthase na	04/06/18 11:34

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216406

Lab Sample ID: 320-37345-11 Client Sample ID: 785VMP-2_0318

Date Analyzed: 04/05/18 20:15 Lab File ID: MS7040511.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.50	Baseline	phanthasena	04/06/18 11:35
Carbon disulfide		Invalid Compound ID	phanthasena	04/06/18 11:35
Naphthalene		Invalid Compound ID	phanthasena	04/06/18 11:36
Carbon tetrachloride	13.48	Incomplete Integration	phanthasena	04/06/18 11:35
4-Ethyltoluene	24.27	Split Peak	phanthasena	04/06/18 11:36

Lab Sample ID: 320-37345-12 Client Sample ID: 785VMP-2_0318-a

Date Analyzed: 04/05/18 21:11 Lab File ID: MS7040512.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.45	Incomplete Integration	phanthasena	04/06/18 12:23
Carbon disulfide		Invalid Compound ID	phanthasena	04/06/18 12:23
Carbon tetrachloride	13.49	Incomplete Integration	phanthasena	04/06/18 12:24

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216406

Lab Sample ID: 320-37345-13 Client Sample ID: 785VMP-4_0318

Date Analyzed: 04/05/18 22:08 Lab File ID: MS7040513.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.48	Baseline	phanthasena	04/06/18 12:49
Butadiene		Invalid Compound ID	phanthasena	04/06/18 12:49
Carbon disulfide		Invalid Compound ID	phanthasena	04/06/18 12:49
4-Ethyltoluene	24.26	Split Peak	phanthasena	04/06/18 12:50

Lab Sample ID: 320-37345-16 Client Sample ID: 786VMP-1_0318

Date Analyzed: 04/06/18 00:01 Lab File ID: MS7040515.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.49	Incomplete Integration	phanthasena	04/06/18 14:52
Benzyl chloride		Invalid Compound ID	phanthasena	04/06/18 14:53
Methyl tert-butyl ether		Invalid Compound ID	phanthasena	04/06/18 14:52
Styrene		Invalid Compound ID	phanthasena	04/06/18 14:53
trans-1,3-Dichloropropene		Invalid Compound ID	phanthasena	04/06/18 14:53
Carbon tetrachloride	13.51	Incomplete Integration	phanthasena	04/06/18 14:53
4-Ethyltoluene	24.25	Split Peak	phanthasena	04/06/18 14:53

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216406

Lab Sample ID: 320-37345-17 Client Sample ID: 786VMP-2_0318

Date Analyzed: 04/06/18 00:57 Lab File ID: MS7040516.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	phanthasena	04/06/18 16:04
Naphthalene		Invalid Compound ID	phanthasena	04/06/18 16:05
Styrene		Invalid Compound ID	phanthasena	04/06/18 16:04
4-Ethyltoluene	24.26	Split Peak	phanthasena	04/06/18 16:05

Lab Sample ID: 320-37345-18 Client Sample ID: 786VMP-3_0318

Date Analyzed: 04/06/18 02:48 Lab File ID: MS7040518.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	7.50	Incomplete Integration	phanthasena	04/06/18 17:31
1,3,5-Trimethylbenzene		Invalid Compound ID	phanthasena	04/06/18 17:32
Butadiene		Invalid Compound ID	phanthasena	04/06/18 17:31

Lab Sample ID: 320-37345-20 Client Sample ID: 785OA-1_0318

Date Analyzed: 04/06/18 03:44 Lab File ID: MS7040519.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	phanthasena	04/06/18 18:36
Carbon disulfide		Invalid Compound ID	phanthasena	04/06/18 18:36

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Analysis Batch Number: 216406

Lab Sample ID: 320-37345-14 Client Sample ID: 785VMP-5_0318

Date Analyzed: 04/06/18 08:21 Lab File ID: MS7040524.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane		Invalid Compound ID	leeh	04/06/18 09:03
2-Butanone (MEK)		Invalid Compound ID	leeh	04/06/18 09:03
Carbon disulfide		Invalid Compound ID	leeh	04/06/18 09:03
m-Xylene & p-Xylene	21.53	Peak assignment corrected	leeh	04/06/18 09:03

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS5 Analysis Batch Number: 216538

Lab Sample ID: IC 320-216538/3 Client Sample ID:

Date Analyzed: 04/05/18 15:44 Lab File ID: MS5040503.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Peak Tail	vanommens	04/06/18 10:28

Lab Sample ID: IC 320-216538/4 Client Sample ID:

Date Analyzed: 04/05/18 16:36 Lab File ID: MS5040504.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Incomplete Integration	vanommens	04/06/18 10:27

Lab Sample ID: IC 320-216538/5 Client Sample ID:

Date Analyzed: 04/05/18 17:26 Lab File ID: MS5040505.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Peak Tail	vanommens	04/06/18 10:27

Lab Sample ID: IC 320-216538/6 Client Sample ID:

Date Analyzed: 04/05/18 18:19 Lab File ID: MS5040506.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Incomplete Integration	vanommens	04/06/18 10:26

Lab Sample ID: IC 320-216538/7 Client Sample ID:

Date Analyzed: 04/05/18 19:08 Lab File ID: MS5040507.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Peak Tail	vanommens	04/06/18 10:26

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS5 Analysis Batch Number: 216538

Lab Sample ID: IC 320-216538/8 Client Sample ID:

Date Analyzed: 04/05/18 19:58 Lab File ID: MS5040508.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Peak Tail	vanommens	04/06/18 10:25

Lab Sample ID: IC 320-216538/10 Client Sample ID:

Date Analyzed: 04/05/18 21:39 Lab File ID: MS5040510.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Peak Tail	vanommens	04/06/18 10:29

Lab Sample ID: IC 320-216538/11 Client Sample ID:

Date Analyzed: 04/05/18 22:36 Lab File ID: MS5040511.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Peak Tail	vanommens	04/06/18 10:29

Lab Sample ID: ICV 320-216538/14 Client Sample ID:

Date Analyzed: 04/06/18 01:12 Lab File ID: MS5040514.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	29.70	Incomplete Integration	vanommens	04/06/18 10:30

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS5 Analysis Batch Number: 217160

Lab Sample ID: 320-37345-4 Client Sample ID: 774IA-1_0318

Date Analyzed: 04/10/18 21:04 Lab File ID: 18041014.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	phanthasena	04/11/18 17:48

Lab Sample ID: 320-37345-15 Client Sample ID: 785IA-1_0318

Date Analyzed: 04/10/18 22:56 Lab File ID: 18041016.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	phanthasena	04/11/18 17:54
Tetrachloroethene		Invalid Compound ID	phanthasena	04/11/18 17:55
Trichloroethene	14.27	Baseline	phanthasena	04/11/18 17:54

Lab Sample ID: 320-37345-19 Client Sample ID: 786IA-1_0318

Date Analyzed: 04/10/18 23:52 Lab File ID: 18041017.D GC Column: RTX-Volatiles ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride		Invalid Compound ID	phanthasena	04/11/18 17:56
1,1,1-Trichloroethane	12.04	Baseline	phanthasena	04/11/18 17:57

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
****VAMBFB_00034**							1,2-Dichloroethane-d4 (Surr)	
							1,2-Dichloroethene, Total	
							1,4-Difluorobenzene	
							4-Bromofluorobenzene (Surr)	
							BFB	300 ppb v/v
							Chlorobenzene-d5 (IS)	
							Chlorobromomethane (IS)	
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	
							Xylenes, Total	
VACORPIC0.1_00060	04/22/18	04/05/18	N2, Lot HOUSE	50 psi absolute	VACORPIC2.5_00381	2 psi absolute	1,1,1-Trichloroethane	0.1 ppb v/v
							1,1,2,2-Tetrachloroethane	0.1 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.1 ppb v/v
							1,1,2-Trichloroethane	0.1 ppb v/v
							1,1-Dichloroethane	0.1 ppb v/v
							1,1-Dichloroethene	0.1 ppb v/v
							1,2,3-Trichloropropane	0.1 ppb v/v
							1,2,4-Trichlorobenzene	0.1 ppb v/v
							1,2-Dibromoethane (EDB)	0.1 ppb v/v
							1,2-Dichlorobenzene	0.1 ppb v/v
							1,2-Dichloroethane	0.1 ppb v/v
							1,2-Dichloropropane	0.1 ppb v/v
							1,3-Dichlorobenzene	0.1 ppb v/v
							1,4-Dichlorobenzene	0.1 ppb v/v
							1,4-Dioxane	0.1 ppb v/v
							Benzene	0.1 ppb v/v
							Benzyl chloride	0.08 ppb v/v
							Bromodichloromethane	0.1 ppb v/v
							Butadiene	0.1 ppb v/v
							Carbon tetrachloride	0.1 ppb v/v
							Chlorobenzene	0.1 ppb v/v
							Chloroethane	0.1 ppb v/v
							Chloroform	0.1 ppb v/v
							Chloromethane	0.1 ppb v/v
							cis-1,2-Dichloroethene	0.1 ppb v/v
							cis-1,3-Dichloropropene	0.1 ppb v/v
							Dibromochloromethane	0.1 ppb v/v
							Dichlorodifluoromethane	0.1 ppb v/v
							Ethylbenzene	0.1 ppb v/v
							Hexachlorobutadiene	0.1 ppb v/v
							m-Xylene & p-Xylene	0.2 ppb v/v
							Methyl tert-butyl ether	0.1 ppb v/v
							Methylene Chloride	0.1 ppb v/v
							Naphthalene	0.1 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	0.1 ppb v/v
							Styrene	0.1 ppb v/v
							Tetrachloroethene	0.1 ppb v/v
							Toluene	0.1 ppb v/v
							trans-1,2-Dichloroethene	0.1 ppb v/v
							trans-1,3-Dichloropropene	0.1 ppb v/v
							Trichloroethene	0.1 ppb v/v
							Trichlorofluoromethane	0.1 ppb v/v
							Vinyl chloride	0.1 ppb v/v
.VACORPIC2.5_00381	04/22/18	04/04/18	N2, Lot HOUSE	49.76 psi absolute	VACORPIC40_00578	3.11 psi absolute	1,1,1-Trichloroethane	2.5 ppb v/v
							1,1,2,2-Tetrachloroethane	2.5 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 ppb v/v
							1,1,2-Trichloroethane	2.5 ppb v/v
							1,1-Dichloroethane	2.5 ppb v/v
							1,1-Dichloroethene	2.5 ppb v/v
							1,2,3-Trichloropropane	2.5 ppb v/v
							1,2,4-Trichlorobenzene	2.5 ppb v/v
							1,2-Dibromoethane (EDB)	2.5 ppb v/v
							1,2-Dichlorobenzene	2.5 ppb v/v
							1,2-Dichloroethane	2.5 ppb v/v
							1,2-Dichloropropane	2.5 ppb v/v
							1,3-Dichlorobenzene	2.5 ppb v/v
							1,4-Dichlorobenzene	2.5 ppb v/v
							1,4-Dioxane	2.5 ppb v/v
							Benzene	2.5 ppb v/v
							Benzyl chloride	2 ppb v/v
							Bromodichloromethane	2.5 ppb v/v
							Butadiene	2.5 ppb v/v
							Carbon tetrachloride	2.5 ppb v/v
							Chlorobenzene	2.5 ppb v/v
							Chloroethane	2.5 ppb v/v
							Chloroform	2.5 ppb v/v
							Chloromethane	2.5 ppb v/v
							cis-1,2-Dichloroethene	2.5 ppb v/v
							cis-1,3-Dichloropropene	2.5 ppb v/v
							Dibromochloromethane	2.5 ppb v/v
							Dichlorodifluoromethane	2.5 ppb v/v
							Ethylbenzene	2.5 ppb v/v
							Hexachlorobutadiene	2.5 ppb v/v
							m-Xylene & p-Xylene	5 ppb v/v
							Methyl tert-butyl ether	2.5 ppb v/v
							Methylene Chloride	2.5 ppb v/v
							Naphthalene	2.5 ppb v/v
							o-Xylene	2.5 ppb v/v
							Styrene	2.5 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2.5 ppb v/v
							Toluene	2.5 ppb v/v
							trans-1,2-Dichloroethene	2.5 ppb v/v
							trans-1,3-Dichloropropene	2.5 ppb v/v
							Trichloroethene	2.5 ppb v/v
							Trichlorofluoromethane	2.5 ppb v/v
							Vinyl chloride	2.5 ppb v/v
..VACORPIC40_00578	04/22/18	03/22/18	N2, Lot HOUSE	50 psi absolute	VACORPSTKCCV_00032	2 psi absolute	1,1,1-Trichloroethane	40 ppb v/v
							1,1,2,2-Tetrachloroethane	40 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ppb v/v
							1,1,2-Trichloroethane	40 ppb v/v
							1,1-Dichloroethane	40 ppb v/v
							1,1-Dichloroethene	40 ppb v/v
							1,2,3-Trichloropropane	40 ppb v/v
							1,2,4-Trichlorobenzene	40 ppb v/v
							1,2-Dibromoethane (EDB)	40 ppb v/v
							1,2-Dichlorobenzene	40 ppb v/v
							1,2-Dichloroethane	40 ppb v/v
							1,2-Dichloropropane	40 ppb v/v
							1,3-Dichlorobenzene	40 ppb v/v
							1,4-Dichlorobenzene	40 ppb v/v
							1,4-Dioxane	40 ppb v/v
							Benzene	40 ppb v/v
							Benzyl chloride	32 ppb v/v
							Bromodichloromethane	40 ppb v/v
							Butadiene	40 ppb v/v
							Carbon tetrachloride	40 ppb v/v
							Chlorobenzene	40 ppb v/v
							Chloroethane	40 ppb v/v
							Chloroform	40 ppb v/v
							Chloromethane	40 ppb v/v
							cis-1,2-Dichloroethene	40 ppb v/v
							cis-1,3-Dichloropropene	40 ppb v/v
							Dibromochloromethane	40 ppb v/v
							Dichlorodifluoromethane	40 ppb v/v
							Ethylbenzene	40 ppb v/v
							Hexachlorobutadiene	40 ppb v/v
							m-Xylene & p-Xylene	80 ppb v/v
							Methyl tert-butyl ether	40 ppb v/v
							Methylene Chloride	40 ppb v/v
							Naphthalene	40 ppb v/v
							o-Xylene	40 ppb v/v
							Styrene	40 ppb v/v
							Tetrachloroethene	40 ppb v/v
							Toluene	40 ppb v/v
							trans-1,2-Dichloroethene	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	40 ppb v/v
							Trichloroethene	40 ppb v/v
							Trichlorofluoromethane	40 ppb v/v
							Vinyl chloride	40 ppb v/v
...VACORPSTKCCV_00032	04/28/18		Linde, Lot CC-328935		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2-Dibromoethane (EDB)	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	0.8 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VACORPIC1.0_00145	04/14/18	03/14/18	N2, Lot HOUSE	50 psi absolute	VACORPIC40_00572	1.25 psi absolute	1,1,1-Trichloroethane	1 ppb v/v
							1,1,2,2-Tetrachloroethane	1 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppb v/v
							1,1,2-Trichloroethane	1 ppb v/v
							1,1-Dichloroethane	1 ppb v/v
							1,1-Dichloroethene	1 ppb v/v
							1,2,3-Trichloropropane	1 ppb v/v
							1,2,4-Trichlorobenzene	1 ppb v/v
							1,2,4-Trimethylbenzene	1 ppb v/v
							1,2-Dibromoethane (EDB)	1 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppb v/v
							1,2-Dichlorobenzene	1 ppb v/v
							1,2-Dichloroethane	1 ppb v/v
							1,2-Dichloropropane	1 ppb v/v
							1,3,5-Trimethylbenzene	1 ppb v/v
							1,3-Dichlorobenzene	1 ppb v/v
							1,4-Dichlorobenzene	1 ppb v/v
							1,4-Dioxane	1 ppb v/v
							2-Butanone (MEK)	1 ppb v/v
							2-Hexanone	1 ppb v/v
							2-Methyl-2-propanol	1 ppb v/v
							4-Ethyltoluene	1 ppb v/v
							4-Isopropyltoluene	1 ppb v/v
							4-Methyl-2-pentanone (MIBK)	1 ppb v/v
							Acetone	1 ppb v/v
							Acrylonitrile	1 ppb v/v
							Benzene	1 ppb v/v
							Benzyl chloride	0.8 ppb v/v
							Bromodichloromethane	1 ppb v/v
							Bromoform	1 ppb v/v
							Bromomethane	1 ppb v/v
							Butadiene	1 ppb v/v
							Carbon disulfide	1 ppb v/v
							Carbon tetrachloride	1 ppb v/v
							Chlorobenzene	1 ppb v/v
							Chloroethane	1 ppb v/v
							Chloroform	1 ppb v/v
							Chloromethane	1 ppb v/v
							cis-1,2-Dichloroethene	1 ppb v/v
							cis-1,3-Dichloropropene	1 ppb v/v
							Cyclohexane	1 ppb v/v
							Dibromochloromethane	1 ppb v/v
							Dichlorodifluoromethane	1 ppb v/v
							Ethyl acetate	1 ppb v/v
							Ethylbenzene	1 ppb v/v

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1 ppb v/v
							Hexane	1 ppb v/v
							Isopropylbenzene	1 ppb v/v
							m-Xylene & p-Xylene	2 ppb v/v
							Methyl tert-butyl ether	1 ppb v/v
							Methylene Chloride	1 ppb v/v
							n-Butylbenzene	1 ppb v/v
							n-Heptane	1 ppb v/v
							n-Nonane	1 ppb v/v
							n-Octane	1 ppb v/v
							N-Propylbenzene	1 ppb v/v
							Naphthalene	1 ppb v/v
							Nonmethane Organic Compounds as Hexane	1 ppb v/v
							o-Xylene	1 ppb v/v
							Propene	1 ppb v/v
							sec-Butylbenzene	1 ppb v/v
							Styrene	1 ppb v/v
							tert-Butylbenzene	1 ppb v/v
							Tetrachloroethene	1 ppb v/v
							Tetrahydrofuran	1 ppb v/v
							Toluene	1 ppb v/v
							trans-1,2-Dichloroethene	1 ppb v/v
							trans-1,3-Dichloropropene	1 ppb v/v
							Trichloroethene	1 ppb v/v
							Trichlorofluoromethane	1 ppb v/v
							Vinyl acetate	1 ppb v/v
							Vinyl chloride	1 ppb v/v
.VACORPIC40_00572	04/14/18	03/14/18	N2, Lot HOUSE	50 psi absolute	VACORPSTKCCV_00031	2 psi absolute	1,1,1-Trichloroethane	40 ppb v/v
							1,1,2,2-Tetrachloroethane	40 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ppb v/v
							1,1,2-Trichloroethane	40 ppb v/v
							1,1-Dichloroethane	40 ppb v/v
							1,1-Dichloroethene	40 ppb v/v
							1,2,3-Trichloropropane	40 ppb v/v
							1,2,4-Trichlorobenzene	40 ppb v/v
							1,2,4-Trimethylbenzene	40 ppb v/v
							1,2-Dibromoethane (EDB)	40 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	40 ppb v/v
							1,2-Dichlorobenzene	40 ppb v/v
							1,2-Dichloroethane	40 ppb v/v
							1,2-Dichloropropane	40 ppb v/v
							1,3,5-Trimethylbenzene	40 ppb v/v
							1,3-Dichlorobenzene	40 ppb v/v
							1,4-Dichlorobenzene	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	40 ppb v/v
							2-Butanone (MEK)	40 ppb v/v
							2-Hexanone	40 ppb v/v
							2-Methyl-2-propanol	40 ppb v/v
							4-Ethyltoluene	40 ppb v/v
							4-Isopropyltoluene	40 ppb v/v
							4-Methyl-2-pentanone (MIBK)	40 ppb v/v
							Acetone	40 ppb v/v
							Acrylonitrile	40 ppb v/v
							Benzene	40 ppb v/v
							Benzyl chloride	32 ppb v/v
							Bromodichloromethane	40 ppb v/v
							Bromoform	40 ppb v/v
							Bromomethane	40 ppb v/v
							Butadiene	40 ppb v/v
							Carbon disulfide	40 ppb v/v
							Carbon tetrachloride	40 ppb v/v
							Chlorobenzene	40 ppb v/v
							Chloroethane	40 ppb v/v
							Chloroform	40 ppb v/v
							Chloromethane	40 ppb v/v
							cis-1,2-Dichloroethene	40 ppb v/v
							cis-1,3-Dichloropropene	40 ppb v/v
							Cyclohexane	40 ppb v/v
							Dibromochloromethane	40 ppb v/v
							Dichlorodifluoromethane	40 ppb v/v
							Ethyl acetate	40 ppb v/v
							Ethylbenzene	40 ppb v/v
							Hexachlorobutadiene	40 ppb v/v
							Hexane	40 ppb v/v
							Isopropylbenzene	40 ppb v/v
							m-Xylene & p-Xylene	80 ppb v/v
							Methyl tert-butyl ether	40 ppb v/v
							Methylene Chloride	40 ppb v/v
							n-Butylbenzene	40 ppb v/v
							n-Heptane	40 ppb v/v
							n-Nonane	40 ppb v/v
							n-Octane	40 ppb v/v
							N-Propylbenzene	40 ppb v/v
							Naphthalene	40 ppb v/v
							Nonmethane Organic Compounds as Hexane	40 ppb v/v
							o-Xylene	40 ppb v/v
							Propene	40 ppb v/v
							sec-Butylbenzene	40 ppb v/v
							Styrene	40 ppb v/v
							tert-Butylbenzene	40 ppb v/v
							Tetrachloroethene	40 ppb v/v

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	40 ppb v/v
							Toluene	40 ppb v/v
							trans-1,2-Dichloroethene	40 ppb v/v
							trans-1,3-Dichloropropene	40 ppb v/v
							Trichloroethene	40 ppb v/v
							Trichlorofluoromethane	40 ppb v/v
							Vinyl acetate	40 ppb v/v
							Vinyl chloride	40 ppb v/v
..VACORPSTKCCV_00031	04/28/18		Linde, Lot CC-328935		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane (EDB)	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	0.8 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Nonmethane Organic Compounds as Hexane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
VACORPIC2.5_00381	04/22/18	04/04/18	N2, Lot HOUSE	49.76 psi absolute	VACORPIC40_00578	3.11 psi absolute	1,1,1-Trichloroethane	2.5 ppb v/v
							1,1,2,2-Tetrachloroethane	2.5 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 ppb v/v
							1,1,2-Trichloroethane	2.5 ppb v/v
							1,1-Dichloroethane	2.5 ppb v/v
							1,1-Dichloroethene	2.5 ppb v/v
							1,2,3-Trichloropropane	2.5 ppb v/v
							1,2,4-Trichlorobenzene	2.5 ppb v/v
							1,2-Dibromoethane (EDB)	2.5 ppb v/v
							1,2-Dichlorobenzene	2.5 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2.5 ppb v/v
							1,2-Dichloropropane	2.5 ppb v/v
							1,3-Dichlorobenzene	2.5 ppb v/v
							1,4-Dichlorobenzene	2.5 ppb v/v
							1,4-Dioxane	2.5 ppb v/v
							Benzene	2.5 ppb v/v
							Benzyl chloride	2 ppb v/v
							Bromodichloromethane	2.5 ppb v/v
							Butadiene	2.5 ppb v/v
							Carbon tetrachloride	2.5 ppb v/v
							Chlorobenzene	2.5 ppb v/v
							Chloroethane	2.5 ppb v/v
							Chloroform	2.5 ppb v/v
							Chloromethane	2.5 ppb v/v
							cis-1,2-Dichloroethene	2.5 ppb v/v
							cis-1,3-Dichloropropene	2.5 ppb v/v
							Dibromochloromethane	2.5 ppb v/v
							Dichlorodifluoromethane	2.5 ppb v/v
							Ethylbenzene	2.5 ppb v/v
							Hexachlorobutadiene	2.5 ppb v/v
							m-Xylene & p-Xylene	5 ppb v/v
							Methyl tert-butyl ether	2.5 ppb v/v
							Methylene Chloride	2.5 ppb v/v
							Naphthalene	2.5 ppb v/v
							o-Xylene	2.5 ppb v/v
							Styrene	2.5 ppb v/v
							Tetrachloroethene	2.5 ppb v/v
							Toluene	2.5 ppb v/v
							trans-1,2-Dichloroethene	2.5 ppb v/v
							trans-1,3-Dichloropropene	2.5 ppb v/v
							Trichloroethene	2.5 ppb v/v
							Trichlorofluoromethane	2.5 ppb v/v
							Vinyl chloride	2.5 ppb v/v
.VACORPIC40_00578	04/22/18	03/22/18	N2, Lot HOUSE	50 psi absolute	VACORPSTKCCV_00032	2 psi absolute	1,1,1-Trichloroethane	40 ppb v/v
							1,1,2,2-Tetrachloroethane	40 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ppb v/v
							1,1,2-Trichloroethane	40 ppb v/v
							1,1-Dichloroethane	40 ppb v/v
							1,1-Dichloroethene	40 ppb v/v
							1,2,3-Trichloropropane	40 ppb v/v
							1,2,4-Trichlorobenzene	40 ppb v/v
							1,2-Dibromoethane (EDB)	40 ppb v/v
							1,2-Dichlorobenzene	40 ppb v/v
							1,2-Dichloroethane	40 ppb v/v
							1,2-Dichloropropane	40 ppb v/v
							1,3-Dichlorobenzene	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	40 ppb v/v
							1,4-Dioxane	40 ppb v/v
							Benzene	40 ppb v/v
							Benzyl chloride	32 ppb v/v
							Bromodichloromethane	40 ppb v/v
							Butadiene	40 ppb v/v
							Carbon tetrachloride	40 ppb v/v
							Chlorobenzene	40 ppb v/v
							Chloroethane	40 ppb v/v
							Chloroform	40 ppb v/v
							Chloromethane	40 ppb v/v
							cis-1,2-Dichloroethene	40 ppb v/v
							cis-1,3-Dichloropropene	40 ppb v/v
							Dibromochloromethane	40 ppb v/v
							Dichlorodifluoromethane	40 ppb v/v
							Ethylbenzene	40 ppb v/v
							Hexachlorobutadiene	40 ppb v/v
							m-Xylene & p-Xylene	80 ppb v/v
							Methyl tert-butyl ether	40 ppb v/v
							Methylene Chloride	40 ppb v/v
							Naphthalene	40 ppb v/v
							o-Xylene	40 ppb v/v
							Styrene	40 ppb v/v
							Tetrachloroethene	40 ppb v/v
							Toluene	40 ppb v/v
							trans-1,2-Dichloroethene	40 ppb v/v
							trans-1,3-Dichloropropene	40 ppb v/v
							Trichloroethene	40 ppb v/v
							Trichlorofluoromethane	40 ppb v/v
							Vinyl chloride	40 ppb v/v
..VACORPSTKCCV_00032	04/28/18		Linde, Lot CC-328935		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2-Dibromoethane (EDB)	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	0.8 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
VACORPIC40_00572	04/14/18	03/14/18	N2, Lot HOUSE	50 psi absolute	VACORPSTKCCV_00031	2 psi absolute	1,1,1-Trichloroethane	40 ppb v/v
							1,1,2,2-Tetrachloroethane	40 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ppb v/v
							1,1,2-Trichloroethane	40 ppb v/v
							1,1-Dichloroethane	40 ppb v/v
							1,1-Dichloroethene	40 ppb v/v
							1,2,3-Trichloropropane	40 ppb v/v
							1,2,4-Trichlorobenzene	40 ppb v/v
							1,2,4-Trimethylbenzene	40 ppb v/v
							1,2-Dibromoethane (EDB)	40 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	40 ppb v/v
							1,2-Dichlorobenzene	40 ppb v/v
							1,2-Dichloroethane	40 ppb v/v
							1,2-Dichloropropane	40 ppb v/v
							1,3,5-Trimethylbenzene	40 ppb v/v
							1,3-Dichlorobenzene	40 ppb v/v
							1,4-Dichlorobenzene	40 ppb v/v
							1,4-Dioxane	40 ppb v/v
							2-Butanone (MEK)	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	40 ppb v/v
							2-Methyl-2-propanol	40 ppb v/v
							4-Ethyltoluene	40 ppb v/v
							4-Isopropyltoluene	40 ppb v/v
							4-Methyl-2-pentanone (MIBK)	40 ppb v/v
							Acetone	40 ppb v/v
							Acrylonitrile	40 ppb v/v
							Benzene	40 ppb v/v
							Benzyl chloride	32 ppb v/v
							Bromodichloromethane	40 ppb v/v
							Bromoform	40 ppb v/v
							Bromomethane	40 ppb v/v
							Butadiene	40 ppb v/v
							Carbon disulfide	40 ppb v/v
							Carbon tetrachloride	40 ppb v/v
							Chlorobenzene	40 ppb v/v
							Chloroethane	40 ppb v/v
							Chloroform	40 ppb v/v
							Chloromethane	40 ppb v/v
							cis-1,2-Dichloroethene	40 ppb v/v
							cis-1,3-Dichloropropene	40 ppb v/v
							Cyclohexane	40 ppb v/v
							Dibromochloromethane	40 ppb v/v
							Dichlorodifluoromethane	40 ppb v/v
							Ethyl acetate	40 ppb v/v
							Ethylbenzene	40 ppb v/v
							Hexachlorobutadiene	40 ppb v/v
							Hexane	40 ppb v/v
							Isopropylbenzene	40 ppb v/v
							m-Xylene & p-Xylene	80 ppb v/v
							Methyl tert-butyl ether	40 ppb v/v
							Methylene Chloride	40 ppb v/v
							n-Butylbenzene	40 ppb v/v
							n-Heptane	40 ppb v/v
							n-Nonane	40 ppb v/v
							n-Octane	40 ppb v/v
							N-Propylbenzene	40 ppb v/v
							Naphthalene	40 ppb v/v
							Nonmethane Organic Compounds as Hexane	40 ppb v/v
							o-Xylene	40 ppb v/v
							Propene	40 ppb v/v
							sec-Butylbenzene	40 ppb v/v
							Styrene	40 ppb v/v
							tert-Butylbenzene	40 ppb v/v
							Tetrachloroethene	40 ppb v/v
							Tetrahydrofuran	40 ppb v/v
							Toluene	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	40 ppb v/v
							trans-1,3-Dichloropropene	40 ppb v/v
							Trichloroethene	40 ppb v/v
							Trichlorofluoromethane	40 ppb v/v
							Vinyl acetate	40 ppb v/v
							Vinyl chloride	40 ppb v/v
.VACORPSTKCCV_00031	04/28/18		Linde, Lot CC-328935		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane (EDB)	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	0.8 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Nonmethane Organic Compounds as Hexane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
VACORPLC2.5_00183	04/23/18	04/04/18	N2, Lot HOUSE	49.76 psi absolute	VACORPLC40_00468	3.11 psi absolute	1,1,1-Trichloroethane	2.5 ppb v/v
							1,1-Dichloroethene	2.5 ppb v/v
							Benzene	2.5 ppb v/v
							Carbon tetrachloride	2.5 ppb v/v
							cis-1,2-Dichloroethene	2.5 ppb v/v
							Methylene Chloride	2.5 ppb v/v
							Tetrachloroethene	2.5 ppb v/v
							Trichloroethene	2.5 ppb v/v
							Vinyl chloride	2.5 ppb v/v
.VACORPLC40_00468	04/23/18	03/23/18	N2, Lot HOUSE LINE	50 psi absolute	VACORPSTKLCS_00021	2 psi absolute	1,1,1-Trichloroethane	40 ppb v/v
							1,1-Dichloroethene	40 ppb v/v
							Benzene	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	40 ppb v/v
							cis-1,2-Dichloroethene	40 ppb v/v
							Methylene Chloride	40 ppb v/v
							Tetrachloroethene	40 ppb v/v
							Trichloroethene	40 ppb v/v
							Vinyl chloride	40 ppb v/v
..VACORPSTKLCS_00021	04/28/18		Linde, Lot CC-230119		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							Benzene	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
VACORPLC40_00467	04/14/18	03/14/18	N2, Lot HOUSE LINE	50 psi absolute	VACORPSTKLCS_00020	2 psi absolute	1,1,1-Trichloroethane	40 ppb v/v
							1,1,2,2-Tetrachloroethane	40 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ppb v/v
							1,1,2-Trichloroethane	40 ppb v/v
							1,1-Dichloroethane	40 ppb v/v
							1,1-Dichloroethene	40 ppb v/v
							1,2,4-Trichlorobenzene	40 ppb v/v
							1,2,4-Trimethylbenzene	40 ppb v/v
							1,2-Dibromoethane (EDB)	40 ppb v/v
							1,2-Dichlorobenzene	40 ppb v/v
							1,2-Dichloroethane	40 ppb v/v
							1,2-Dichloropropane	40 ppb v/v
							1,3,5-Trimethylbenzene	40 ppb v/v
							1,3-Dichlorobenzene	40 ppb v/v
							1,4-Dichlorobenzene	40 ppb v/v
							2-Butanone (MEK)	40 ppb v/v
							2-Hexanone	40 ppb v/v
							4-Ethyltoluene	40 ppb v/v
							4-Methyl-2-pentanone (MIBK)	40 ppb v/v
							Acetone	40 ppb v/v
							Benzene	40 ppb v/v
							Benzyl chloride	32 ppb v/v
							Bromodichloromethane	40 ppb v/v
							Bromoform	40 ppb v/v
							Bromomethane	40 ppb v/v
							Butadiene	40 ppb v/v
							Carbon disulfide	40 ppb v/v
							Carbon tetrachloride	40 ppb v/v
							Chlorobenzene	40 ppb v/v
							Chloroethane	40 ppb v/v
							Chloroform	40 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	40 ppb v/v
							cis-1,2-Dichloroethene	40 ppb v/v
							cis-1,3-Dichloropropene	40 ppb v/v
							Dibromochloromethane	40 ppb v/v
							Dichlorodifluoromethane	40 ppb v/v
							Ethylbenzene	40 ppb v/v
							Hexachlorobutadiene	40 ppb v/v
							m-Xylene & p-Xylene	80 ppb v/v
							Methyl tert-butyl ether	40 ppb v/v
							Methylene Chloride	40 ppb v/v
							Naphthalene	40 ppb v/v
							o-Xylene	40 ppb v/v
							Styrene	40 ppb v/v
							Tetrachloroethene	40 ppb v/v
							Toluene	40 ppb v/v
							trans-1,2-Dichloroethene	40 ppb v/v
							trans-1,3-Dichloropropene	40 ppb v/v
							Trichloroethene	40 ppb v/v
							Trichlorofluoromethane	40 ppb v/v
							Vinyl acetate	40 ppb v/v
							Vinyl chloride	40 ppb v/v
.VACORPSTKLCS_00020	04/28/18		Linde, Lot CC-230119		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane (EDB)	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Hexanone	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	0.8 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
VAMSIS20_00126	04/12/18	03/12/18	N2, Lot Nitrogen	51 psi absolute	VAMSIS300_00019	3.4 psi absolute	1,2-Dichloroethane-d4 (Surr)	20 ppb v/v
							1,4-Difluorobenzene	20 ppb v/v
							4-Bromofluorobenzene (Surr)	20 ppb v/v
							Chlorobenzene-d5 (IS)	20 ppb v/v
							Chlorobromomethane (IS)	20 ppb v/v
							Toluene-d8 (Surr)	20 ppb v/v
.VAMSIS300_00019	06/05/18		Linde, Lot 24086333		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	300 ppb v/v
							1,4-Difluorobenzene	300 ppb v/v
							4-Bromofluorobenzene (Surr)	300 ppb v/v
							Chlorobenzene-d5 (IS)	300 ppb v/v
							Chlorobromomethane (IS)	300 ppb v/v
							Toluene-d8 (Surr)	300 ppb v/v
VAMSIS20_00140	04/30/18	03/30/18	N2, Lot Nitrogen	60 psi absolute	VAMSIS300_00019	4 psi absolute	1,2-Dichloroethane-d4 (Surr)	20 ppb v/v
							1,4-Difluorobenzene	20 ppb v/v
							4-Bromofluorobenzene (Surr)	20 ppb v/v
							Chlorobenzene-d5 (IS)	20 ppb v/v
							Chlorobromomethane (IS)	20 ppb v/v
							Toluene-d8 (Surr)	20 ppb v/v
.VAMSIS300_00019	06/05/18		Linde, Lot 24086333		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	300 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Difluorobenzene	300 ppb v/v
							4-Bromofluorobenzene (Surr)	300 ppb v/v
							Chlorobenzene-d5 (IS)	300 ppb v/v
							Chlorobromomethane (IS)	300 ppb v/v
							Toluene-d8 (Surr)	300 ppb v/v

THE LINDE GROUP

Linde

SHIPPED TO: Test America W Sacramento
880 Riverside Pkwy
West Sacramento, CA 95605-1500

PAGE: 1 of 1

Recertified 6/5/17 * Exp. 6/5/18

CERTIFICATE OF ANALYSIS

Sales#:	113248191	**Cylinder Size:**	2A (8" X 47.5")
Production#:	1351258	**Cylinder # :**	CC-430251
Certification Date:	Sep-21-2015	**Cylinder Pressure:**	2000 psig
P.O.# :	2617825	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086333	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Sep-21-2016	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	10% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane	74-97-5	300 ppb	311 ppb
1,2-Dichloroethane-d4	17060-07-0	300 ppb	319 ppb
1,4-Difluorobenzene	540-36-3	300 ppb	324 ppb
Toluene-d8	2037-26-5	300 ppb	330 ppb
Chlorobenzene-d5	3114-55-4	300 ppb	329 ppb
4-Bromofluorobenzene	460-00-4	300 ppb	328 ppb
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti **DATE:** Sep-21-2015

Linde Gas North America LLC

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Preliminary Report

TestAmerica Sacramento
Internal Standard Recovery Report

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20170605-43833.b\17060503.D				
Lims ID:	CCVIS 20ppbv				
Client ID:					
Sample Type:	CCVIS				
Inject. Date:	05-Jun-2017 13:08:30	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	CCVIS 20PPBV				
Misc. Info.:	125mL				
Operator ID:	SRS	Instrument ID:	ATMS2		
Sublist:	chrom-TO15_ATMS2N*sub66				
Method:	\\ChromNA\Sacramento\ChromData\ATMS2\20170605-43833.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15_MOD - ICAL				
Last Update:	05-Jun-2017 14:03:03	Calib Date:	12-May-2017 11:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Sacramento\ChromData\ATMS2\20170511-42985.b\17051132.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK029				
Istd Cal Sample:	\\ChromNA\Sacramento\ChromData\ATMS2\20170511-42985.b\17051120.D				
Sample Type:	ICIS	ICal Level:	7		
Sublist:	chrom-TO15_ATMS2N*sub69				
Sample Info:	ICIS 20PPBV				
Misc. Info:	125mL				

Mass Chromat Area Recoveries, Detector: MS SCAN

Compound	Standard	Lower Limit	Upper Limit	Sample	% Rec
* 1 Chlorobromomethane (IS)	84487	50693	118281	77113	91.27
* 2 1,4-Difluorobenzene	321812	193088	450536	292854	91.00
* 3 Chlorobenzene-d5 (IS)	295086	177052	413120	250822	85.00

RT Recoveries

Compound	Standard	Lower Limit	Upper Limit	Sample	DLT(min.)	% Diff
* 1 Chlorobromomethane (IS)	11.408	10.908	11.908	11.408	0.000	0.000
* 2 1,4-Difluorobenzene	13.507	13.007	14.007	13.500	0.006	-0.045
* 3 Chlorobenzene-d5 (IS)	19.566	19.066	20.066	19.560	0.006	-0.031

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.500 minutes of internal standard RT.
RT LOWER LIMIT = - 0.500 minutes of internal standard RT.

Reagent

VACORPSTKCCV_00031

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PAGE: 1 of 5
Report ID: 21385
Revision: 0

Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of 2 (K=2), providing a level of confidence of approximately 95% and has been carried out in accordance with ANAB (ANSI-ASQ National Accreditation Board) and ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

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PAGE: **3 of 5**
Report ID: 21385
Revision: 0

Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
Trans-1,2-Dichloroethene	156-60-5	1.000 ppm	1.056 ppm	± 0.012 ppm
1,1-Dichloroethane	75-34-3	1.000 ppm	1.062 ppm	± 0.012 ppm
Methyl Tert Butyl Ether	1634-04-4	1.000 ppm	1.065 ppm	± 0.012 ppm
Vinyl Acetate	108-05-4	1.000 ppm	1.100 ppm	± 0.011 ppm
Methyl Ethyl Ketone	78-93-3	1.000 ppm	1.059 ppm	± 0.011 ppm
Cis-1,2-Dichloroethene	156-59-2	1.000 ppm	1.058 ppm	± 0.011 ppm
Hexane	110-54-3	1.000 ppm	1.057 ppm	± 0.012 ppm
Chloroform	67-66-3	1.000 ppm	1.060 ppm	± 0.010 ppm
Ethyl Acetate	141-78-6	1.000 ppm	1.054 ppm	± 0.010 ppm
Tetrahydrofuran	109-99-9	1.000 ppm	1.059 ppm	± 0.011 ppm
1,2-Dichloroethane	107-06-2	1.000 ppm	1.064 ppm	± 0.011 ppm
1,1,1-Trichloroethane	71-55-6	1.000 ppm	1.058 ppm	± 0.011 ppm
Benzene	71-43-2	1.000 ppm	1.064 ppm	± 0.012 ppm
1-Butanol	71-36-3	1.000 ppm	1.096 ppm	± 0.011 ppm
Carbon Tetrachloride	56-23-5	1.000 ppm	1.057 ppm	± 0.011 ppm
Cyclohexane	110-82-7	1.000 ppm	1.056 ppm	± 0.011 ppm
Dibromomethane	74-95-3	1.000 ppm	1.055 ppm	± 0.010 ppm
1,2-Dichloropropane	78-87-5	1.000 ppm	1.056 ppm	± 0.010 ppm
Trichloroethylene	79-01-6	1.000 ppm	1.062 ppm	± 0.010 ppm
Bromodichloromethane	75-27-4	1.000 ppm	1.055 ppm	± 0.010 ppm
1,4-Dioxane	123-91-1	1.000 ppm	1.053 ppm	± 0.010 ppm
2,2,4-Trimethylpentane	540-84-1	1.000 ppm	1.053 ppm	± 0.011 ppm
Methyl Methacrylate	80-62-6	1.000 ppm	1.054 ppm	± 0.010 ppm
Heptane	142-82-5	1.000 ppm	1.054 ppm	± 0.011 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.000 ppm	1.100 ppm	± 0.010 ppm
Methyl Isobutyl Ketone	108-10-1	1.000 ppm	1.055 ppm	± 0.010 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.000 ppm	1.029 ppm	± 0.009 ppm

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Report ID: 21385
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Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
1,1,2-Trichloroethane	79-00-5	1.000 ppm	1.064 ppm	± 0.010 ppm
Toluene	108-88-3	1.000 ppm	1.059 ppm	± 0.010 ppm
Methyl Butyl Ketone	591-78-6	1.000 ppm	1.053 ppm	± 0.009 ppm
Dibromochloromethane	124-48-1	1.000 ppm	1.054 ppm	± 0.010 ppm
1,2-Dibromoethane	106-93-4	1.000 ppm	1.056 ppm	± 0.010 ppm
n-Octane	111-65-9	1.000 ppm	1.053 ppm	± 0.010 ppm
Tetrachloroethylene	127-18-4	1.000 ppm	1.061 ppm	± 0.010 ppm
Chlorobenzene	108-90-7	1.000 ppm	1.059 ppm	± 0.010 ppm
Ethylbenzene	100-41-4	1.000 ppm	1.055 ppm	± 0.010 ppm
p-xylene	106-42-3	1.000 ppm	1.056 ppm	± 0.010 ppm
m-xylene	108-38-3	1.000 ppm	1.056 ppm	± 0.010 ppm
Bromoform	75-25-2	1.000 ppm	1.055 ppm	± 0.010 ppm
Styrene	100-42-5	1.000 ppm	1.059 ppm	± 0.012 ppm
o-xylene	95-47-6	1.000 ppm	1.056 ppm	± 0.012 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.000 ppm	1.060 ppm	± 0.012 ppm
1,2,3-Trichloropropane	96-18-4	1.000 ppm	1.050 ppm	± 0.008 ppm
Nonane	111-84-2	1.000 ppm	1.053 ppm	± 0.008 ppm
Cumene	98-82-8	1.000 ppm	1.052 ppm	± 0.010 ppm
2-Chlorotoluene	95-49-8	1.000 ppm	1.049 ppm	± 0.016 ppm
n-Propylbenzene	103-65-1	1.000 ppm	1.053 ppm	± 0.013 ppm
4-Ethyltoluene	622-96-8	1.000 ppm	1.049 ppm	± 0.008 ppm
1,3,5-Trimethylbenzene	108-67-8	1.000 ppm	1.054 ppm	± 0.008 ppm
alpha-Methyl Styrene (No Stabil	98-83-9	1.000 ppm	1.051 ppm	± 0.007 ppm
Tert-Butyl Benzene	98-06-6	1.000 ppm	1.047 ppm	± 0.007 ppm
1,2,4-Trimethylbenzene	95-63-6	1.000 ppm	1.056 ppm	± 0.007 ppm
1,3-Dichlorobenzene	541-73-1	1.000 ppm	1.046 ppm	± 0.012 ppm
Benzyl Chloride	100-44-7	1.000 ppm	1.048 ppm	± 0.012 ppm

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PAGE: **5 of 5**
Report ID: 21385
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Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
n-Decane	124-18-5	1.000 ppm	1.052 ppm	± 0.012 ppm
1,4-Dichlorobenzene	106-46-7	1.000 ppm	1.061 ppm	± 0.012 ppm
Sec-Butyl Benzene	135-98-8	1.000 ppm	1.044 ppm	± 0.021 ppm
4-Isopropyltoluene	99-87-6	1.000 ppm	1.053 ppm	± 0.005 ppm
1,2-Dichlorobenzene	95-50-1	1.000 ppm	1.057 ppm	± 0.009 ppm
n-Butyl Benzene	104-51-8	1.000 ppm	1.048 ppm	± 0.004 ppm
n-Undecane	1120-21-4	1.000 ppm	1.046 ppm	± 0.004 ppm
1,2,4-Trichlorobenzene	120-82-1	1.000 ppm	1.049 ppm	± 0.015 ppm
Naphthalene	91-20-3	1.000 ppm	1.037 ppm	± 0.024 ppm
n-Dodecane	112-40-3	1.000 ppm	1.047 ppm	± 0.006 ppm
1,2,3-Trichlorobenzene	87-61-6	1.000 ppm	1.041 ppm	± 0.021 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.000 ppm	1.048 ppm	± 0.010 ppm
Nitrogen	7727-37-9	Balance	Balance	

ANALYST: Lou Lorenzetti

DATE: Apr-28-2017

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Reagent

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PAGE: 1 of 5
Report ID: 21385
Revision: 0

Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of 2 (K=2), providing a level of confidence of approximately 95% and has been carried out in accordance with ANAB (ANSI-ASQ National Accreditation Board) and ISO 17025 requirements.

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Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
Propylene	115-07-1	1.000 ppm	1.057 ppm	± 0.019 ppm
Chlorodifluoromethane	75-45-6	1.000 ppm	1.057 ppm	± 0.014 ppm
Freon-12	75-71-8	1.000 ppm	1.055 ppm	± 0.017 ppm
Chloromethane	74-87-3	1.000 ppm	1.054 ppm	± 0.019 ppm
Freon-114	76-14-2	1.000 ppm	1.054 ppm	± 0.014 ppm
Vinyl Chloride	75-01-4	1.000 ppm	1.057 ppm	± 0.019 ppm
1,3-Butadiene	106-99-0	1.000 ppm	1.055 ppm	± 0.018 ppm
Methanol (No Stability Guarante	67-56-1	1.000 ppm	1.099 ppm	± 0.014 ppm
n-Butane	106-97-8	1.000 ppm	1.054 ppm	± 0.012 ppm
Bromomethane	74-83-9	1.000 ppm	1.057 ppm	± 0.012 ppm
Chloroethane	75-00-3	1.000 ppm	1.057 ppm	± 0.017 ppm
Vinyl Bromide	593-60-2	1.000 ppm	1.053 ppm	± 0.015 ppm
Acetonitrile	75-05-8	1.000 ppm	1.055 ppm	± 0.013 ppm
Acrolein	107-02-8	1.000 ppm	1.100 ppm	± 0.012 ppm
Isopentane	78-78-4	1.000 ppm	1.063 ppm	± 0.012 ppm
Acetone	67-64-1	1.000 ppm	1.059 ppm	± 0.012 ppm
Freon-11	75-69-4	1.000 ppm	1.053 ppm	± 0.012 ppm
Isopropyl Alcohol	67-63-0	1.000 ppm	1.097 ppm	± 0.008 ppm
Acrylonitrile	107-13-1	1.000 ppm	1.057 ppm	± 0.013 ppm
n-Pentane	109-66-0	1.000 ppm	1.057 ppm	± 0.013 ppm
Ethyl Ether	60-29-7	1.000 ppm	1.053 ppm	± 0.012 ppm
1,1-Dichloroethene	75-35-4	1.000 ppm	1.063 ppm	± 0.012 ppm
Carbon Disulfide	75-15-0	1.000 ppm	1.056 ppm	± 0.011 ppm
Methylene Chloride	75-09-2	1.000 ppm	1.057 ppm	± 0.011 ppm
Tert-Butanol	75-65-0	1.000 ppm	1.092 ppm	± 0.012 ppm
3-Chloropropene	107-05-1	1.000 ppm	1.056 ppm	± 0.011 ppm
Freon-113	76-13-1	1.000 ppm	1.059 ppm	± 0.013 ppm

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PAGE: 3 of 5
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Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
Trans-1,2-Dichloroethene	156-60-5	1.000 ppm	1.056 ppm	± 0.012 ppm
1,1-Dichloroethane	75-34-3	1.000 ppm	1.062 ppm	± 0.012 ppm
Methyl Tert Butyl Ether	1634-04-4	1.000 ppm	1.065 ppm	± 0.012 ppm
Vinyl Acetate	108-05-4	1.000 ppm	1.100 ppm	± 0.011 ppm
Methyl Ethyl Ketone	78-93-3	1.000 ppm	1.059 ppm	± 0.011 ppm
Cis-1,2-Dichloroethene	156-59-2	1.000 ppm	1.058 ppm	± 0.011 ppm
Hexane	110-54-3	1.000 ppm	1.057 ppm	± 0.012 ppm
Chloroform	67-66-3	1.000 ppm	1.060 ppm	± 0.010 ppm
Ethyl Acetate	141-78-6	1.000 ppm	1.054 ppm	± 0.010 ppm
Tetrahydrofuran	109-99-9	1.000 ppm	1.059 ppm	± 0.011 ppm
1,2-Dichloroethane	107-06-2	1.000 ppm	1.064 ppm	± 0.011 ppm
1,1,1-Trichloroethane	71-55-6	1.000 ppm	1.058 ppm	± 0.011 ppm
Benzene	71-43-2	1.000 ppm	1.064 ppm	± 0.012 ppm
1-Butanol	71-36-3	1.000 ppm	1.096 ppm	± 0.011 ppm
Carbon Tetrachloride	56-23-5	1.000 ppm	1.057 ppm	± 0.011 ppm
Cyclohexane	110-82-7	1.000 ppm	1.056 ppm	± 0.011 ppm
Dibromomethane	74-95-3	1.000 ppm	1.055 ppm	± 0.010 ppm
1,2-Dichloropropane	78-87-5	1.000 ppm	1.056 ppm	± 0.010 ppm
Trichloroethylene	79-01-6	1.000 ppm	1.062 ppm	± 0.010 ppm
Bromodichloromethane	75-27-4	1.000 ppm	1.055 ppm	± 0.010 ppm
1,4-Dioxane	123-91-1	1.000 ppm	1.053 ppm	± 0.010 ppm
2,2,4-Trimethylpentane	540-84-1	1.000 ppm	1.053 ppm	± 0.011 ppm
Methyl Methacrylate	80-62-6	1.000 ppm	1.054 ppm	± 0.010 ppm
Heptane	142-82-5	1.000 ppm	1.054 ppm	± 0.011 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.000 ppm	1.100 ppm	± 0.010 ppm
Methyl Isobutyl Ketone	108-10-1	1.000 ppm	1.055 ppm	± 0.010 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.000 ppm	1.029 ppm	± 0.009 ppm

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Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
1,1,2-Trichloroethane	79-00-5	1.000 ppm	1.064 ppm	± 0.010 ppm
Toluene	108-88-3	1.000 ppm	1.059 ppm	± 0.010 ppm
Methyl Butyl Ketone	591-78-6	1.000 ppm	1.053 ppm	± 0.009 ppm
Dibromochloromethane	124-48-1	1.000 ppm	1.054 ppm	± 0.010 ppm
1,2-Dibromoethane	106-93-4	1.000 ppm	1.056 ppm	± 0.010 ppm
n-Octane	111-65-9	1.000 ppm	1.053 ppm	± 0.010 ppm
Tetrachloroethylene	127-18-4	1.000 ppm	1.061 ppm	± 0.010 ppm
Chlorobenzene	108-90-7	1.000 ppm	1.059 ppm	± 0.010 ppm
Ethylbenzene	100-41-4	1.000 ppm	1.055 ppm	± 0.010 ppm
p-xylene	106-42-3	1.000 ppm	1.056 ppm	± 0.010 ppm
m-xylene	108-38-3	1.000 ppm	1.056 ppm	± 0.010 ppm
Bromoform	75-25-2	1.000 ppm	1.055 ppm	± 0.010 ppm
Styrene	100-42-5	1.000 ppm	1.059 ppm	± 0.012 ppm
o-xylene	95-47-6	1.000 ppm	1.056 ppm	± 0.012 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.000 ppm	1.060 ppm	± 0.012 ppm
1,2,3-Trichloropropane	96-18-4	1.000 ppm	1.050 ppm	± 0.008 ppm
Nonane	111-84-2	1.000 ppm	1.053 ppm	± 0.008 ppm
Cumene	98-82-8	1.000 ppm	1.052 ppm	± 0.010 ppm
2-Chlorotoluene	95-49-8	1.000 ppm	1.049 ppm	± 0.016 ppm
n-Propylbenzene	103-65-1	1.000 ppm	1.053 ppm	± 0.013 ppm
4-Ethyltoluene	622-96-8	1.000 ppm	1.049 ppm	± 0.008 ppm
1,3,5-Trimethylbenzene	108-67-8	1.000 ppm	1.054 ppm	± 0.008 ppm
alpha-Methyl Styrene (No Stabil	98-83-9	1.000 ppm	1.051 ppm	± 0.007 ppm
Tert-Butyl Benzene	98-06-6	1.000 ppm	1.047 ppm	± 0.007 ppm
1,2,4-Trimethylbenzene	95-63-6	1.000 ppm	1.056 ppm	± 0.007 ppm
1,3-Dichlorobenzene	541-73-1	1.000 ppm	1.046 ppm	± 0.012 ppm
Benzyl Chloride	100-44-7	1.000 ppm	1.048 ppm	± 0.012 ppm

Linde Spectra Environmental Gases

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ISO Guide 34 Certificate

Certified Reference Material

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West Sacramento, CA 95605-1500

PAGE: **5 of 5**
Report ID: 21385
Revision: 0

Sales#:	114936087	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1414556	**Cylinder # :**	CC-328935
Certification Date:	Apr-28-2017	**Cylinder Pressure:**	2000 psig
P.O.#:	2674912	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO GUIDE 34	**Cylinder Volume:**	29.5 Liter
Material#:	24099132	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Apr-28-2018	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	Certified Conc	Uncertainty (k=2 @ 95%)
n-Decane	124-18-5	1.000 ppm	1.052 ppm	± 0.012 ppm
1,4-Dichlorobenzene	106-46-7	1.000 ppm	1.061 ppm	± 0.012 ppm
Sec-Butyl Benzene	135-98-8	1.000 ppm	1.044 ppm	± 0.021 ppm
4-Isopropyltoluene	99-87-6	1.000 ppm	1.053 ppm	± 0.005 ppm
1,2-Dichlorobenzene	95-50-1	1.000 ppm	1.057 ppm	± 0.009 ppm
n-Butyl Benzene	104-51-8	1.000 ppm	1.048 ppm	± 0.004 ppm
n-Undecane	1120-21-4	1.000 ppm	1.046 ppm	± 0.004 ppm
1,2,4-Trichlorobenzene	120-82-1	1.000 ppm	1.049 ppm	± 0.015 ppm
Naphthalene	91-20-3	1.000 ppm	1.037 ppm	± 0.024 ppm
n-Dodecane	112-40-3	1.000 ppm	1.047 ppm	± 0.006 ppm
1,2,3-Trichlorobenzene	87-61-6	1.000 ppm	1.041 ppm	± 0.021 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.000 ppm	1.048 ppm	± 0.010 ppm
Nitrogen	7727-37-9	Balance	Balance	

ANALYST: Lou Lorenzetti

DATE: Apr-28-2017

Linde Spectra Environmental Gases

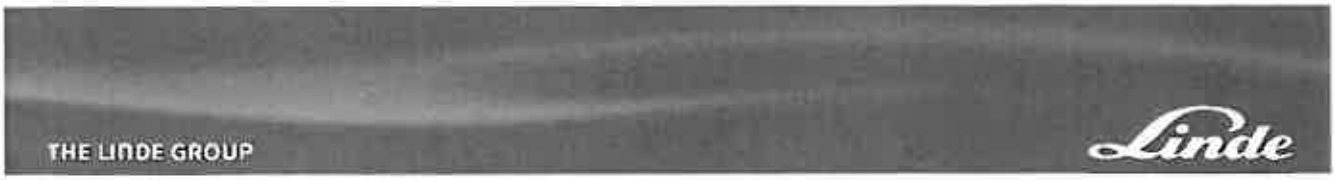
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Reagent

VACORPSTKLCS_00020



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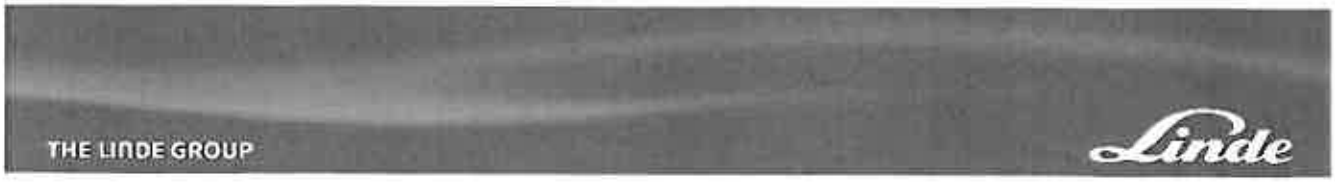
PAGE: **1 of 4**

Recertified 12/14/17 Exp. Date 4/28/2018

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	~~Dec-17-2015~~ SM 12/18/17	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.00 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.04 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	1.00 ppm
Freon-114	76-14-2	1.00 ppm	1.00 ppm
Vinyl Chloride	75-01-4	1.00 ppm	1.01 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.03 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	1.03 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	0.98 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.09 ppm
Acetonitrile	75-05-8	1.00 ppm	1.02 ppm
Acrolein (No Stability Guarantee)	107-02-8	1.00 ppm	0.96 ppm
Isopentane	78-78-4	1.00 ppm	1.08 ppm
Acetone	67-64-1	1.00 ppm	1.08 ppm
Freon-11	75-69-4	1.00 ppm	0.96 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.07 ppm
n-Pentane	109-66-0	1.00 ppm	1.07 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.06 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	1.10 ppm
Carbon Disulfide (No Stability Guarantee)	75-15-0	1.00 ppm	1.05 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.06 ppm
Tert-Butanol		1.00 ppm	1.06 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.06 ppm
Freon-113	76-13-1	1.00 ppm	1.08 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.06 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.07 ppm



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CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	Dec-17-2015	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.04 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.06 ppm
Hexane	110-54-3	1.00 ppm	1.10 ppm
Chloroform	67-66-3	1.00 ppm	1.06 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.06 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.11 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.05 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.03 ppm
Benzene	71-43-2	1.00 ppm	1.05 ppm
1-Butanol	71-36-3	1.00 ppm	1.12 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.08 ppm
Cyclohexane	110-82-7	1.00 ppm	1.08 ppm
Dibromomethane	74-95-3	1.00 ppm	1.04 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.04 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.04 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.04 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.04 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.08 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.01 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.08 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.02 ppm
Toluene	108-88-3	1.00 ppm	1.06 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.12 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.04 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm



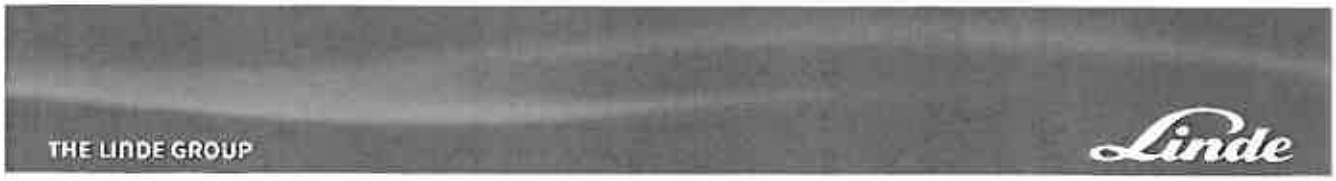
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PAGE: **3 of 4**

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	Dec-17-2015	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	0.99 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.05 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.05 ppm
p-xylene	106-42-3	1.00 ppm	1.02 ppm
m-xylene	108-38-3	1.00 ppm	1.02 ppm
Bromoform	75-25-2	1.00 ppm	1.02 ppm
Styrene	100-42-5	1.00 ppm	1.04 ppm
o-xylene	95-47-6	1.00 ppm	1.04 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.04 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.03 ppm
Nonane	111-84-2	1.00 ppm	1.02 ppm
Cumene	98-82-8	1.00 ppm	1.04 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	0.99 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.06 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.03 ppm
alpha-Methyl Styrene (No Stability Guarantee)	98-83-9	1.00 ppm	1.01 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.01 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.01 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.00 ppm
Benzyl Chloride (No Stability Guarantee)	100-44-7	1.00 ppm	0.80 ppm
n-Decane	124-18-5	1.00 ppm	1.02 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.02 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.01 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.00 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	0.97 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.02 ppm
n-Undecane	1120-21-4	1.00 ppm	0.96 ppm



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PAGE: 4 of 4

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	Dec-17-2015	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.07 ppm
Naphthalene (No Stability Guarantee)	91-20-3	1.00 ppm	1.07 ppm
n-Dodecane	112-40-3	1.00 ppm	0.97 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.01 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.02 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti

DATE: Dec-17-2014

Linde Gas North America LLC

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Preliminary Report

TestAmerica Sacramento
LCS, Lab Control Sample Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121605.D
Lims ID: LCS 20 ppbv
Client ID:
Sample Type: LCS
Inject. Date: 16-Dec-2017 14:01:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 20ppbv
Misc. Info.: 50mL w/100ppbv
Operator ID: SV Instrument ID: ATMS9

Method: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\TO15_ATMS9N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 18-Dec-2017 08:01:03 Calib Date: 16-Dec-2017 13:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121604.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

Compound	Amount Added	Amount Recovered	%Rec
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.41	110.29
$ 5 Toluene-d8 (Surr)	4.00	4.02	100.43
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.13	103.14
14 Propene	20.0	22.5	112.71
13 Chlorodifluoromethane	20.0	20.8	104.01
15 Dichlorodifluoromethane	20.0	20.8	104.13
19 1,2-Dichloro-1,1,2,2-tetrafluoroethane	20.0	19.1	95.57
18 Chloromethane	20.0	21.2	106.05
22 Butane	20.0	21.0	105.19
20 Vinyl chloride	20.0	21.0	104.99
21 Butadiene	20.0	21.3	106.36
25 Bromomethane	20.0	21.8	108.82
26 Chloroethane	20.0	21.2	106.13
27 Vinyl bromide	20.0	19.9	99.49
28 Trichlorofluoromethane	20.0	20.9	104.58
38 Pentane	20.0	21.7	108.54
39 Ethyl ether	20.0	20.7	103.67
29 Acrolein	20.0	25.4	127.13
31 Acetone	20.0	19.6	97.92
43 1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.8	108.97
41 1,1-Dichloroethene	20.0	21.3	106.28
30 Acetonitrile	20.0	20.6	102.96

Preliminary Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121605.D

Compound	Amount Added	Amount Recovered	%Rec
44 2-Methyl-2-propanol	20.0	23.9	119.41
46 3-Chloro-1-propene	20.0	23.7	118.61
47 Methylene Chloride	20.0	21.4	107.18
48 Carbon disulfide	20.0	16.6	83.20
42 Acrylonitrile	20.0	20.9	104.72
50 Methyl tert-butyl ether	20.0	19.5	97.74
49 trans-1,2-Dichloroethene	20.0	20.0	99.95
55 Hexane	20.0	20.2	100.99
53 1,1-Dichloroethane	20.0	22.1	110.50
52 Vinyl acetate	20.0	24.2	120.90
54 2-Butanone (MEK)	20.0	20.0	99.95
57 cis-1,2-Dichloroethene	20.0	22.4	111.82
58 Ethyl acetate	20.0	18.7	93.29
61 Chloroform	20.0	22.6	113.16
62 Tetrahydrofuran	20.0	20.0	99.79
65 1,1,1-Trichloroethane	20.0	22.6	112.94
70 Cyclohexane	20.0	20.3	101.27
74 Isooctane	20.0	20.5	102.62
69 Carbon tetrachloride	20.0	21.8	109.08
67 n-Butanol	20.0	25.7	128.55
66 1,2-Dichloroethane	20.0	21.0	105.13
68 Benzene	20.0	21.6	107.91
75 n-Heptane	20.0	20.5	102.40
76 Trichloroethene	20.0	21.7	108.68
77 1,2-Dichloropropane	20.0	21.1	105.41
79 Methyl methacrylate	20.0	19.7	98.51
80 Dichlorobromomethane	20.0	20.6	103.07
72 1,4-Dioxane	20.0	21.5	107.33
78 Dibromomethane	20.0	22.1	110.38
81 4-Methyl-2-pentanone (MIBK)	20.0	22.2	110.87
83 cis-1,3-Dichloropropene	20.0	24.8	123.94
88 n-Octane	20.0	21.4	106.90
85 Toluene	20.0	20.7	103.49
84 trans-1,3-Dichloropropene	20.0	21.0	104.98
86 1,1,2-Trichloroethane	20.0	21.2	105.85
87 2-Hexanone	20.0	21.8	108.91
93 Tetrachloroethene	20.0	21.3	106.54

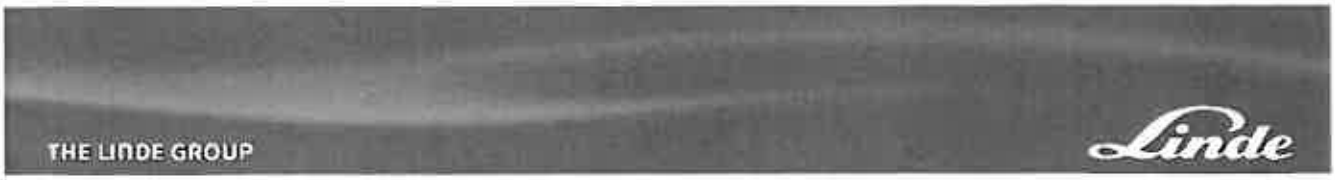
Preliminary Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121605.D

Compound	Amount Added	Amount Recovered	%Rec
92 Chlorodibromomethane	20.0	21.3	106.73
94 Ethylene Dibromide	20.0	21.7	108.56
96 Chlorobenzene	20.0	21.7	108.31
99 n-Nonane	20.0	21.2	106.00
97 Ethylbenzene	20.0	21.6	107.88
98 m-Xylene p-Xylene	40.0	44.3	110.76
101 o-Xylene	20.0	22.1	110.28
100 Styrene	20.0	22.6	113.06
102 Bromoform	20.0	21.9	109.71
104 Isopropylbenzene	20.0	21.8	108.94
103 1,1,2,2-Tetrachloroethane	20.0	21.4	107.24
105 1,2,3-Trichloropropane	20.0	21.2	105.77
113 n-Decane	20.0	20.9	104.35
107 N-Propylbenzene	20.0	20.9	104.53
110 4-Ethyltoluene	20.0	20.6	102.85
111 1,3,5-Trimethylbenzene	20.0	21.4	106.84
109 2-Chlorotoluene	20.0	20.9	104.69
112 Alpha Methyl Styrene	20.0	21.4	107.10
114 tert-Butylbenzene	20.0	21.0	105.00
115 1,2,4-Trimethylbenzene	20.0	21.3	106.57
116 sec-Butylbenzene	20.0	21.1	105.58
121 4-Isopropyltoluene	20.0	21.2	105.86
117 1,3-Dichlorobenzene	20.0	20.9	104.50
120 1,4-Dichlorobenzene	20.0	20.9	104.41
118 Benzyl chloride	16.0	17.4	108.67
124 Undecane	20.0	21.0	104.93
123 n-Butylbenzene	20.0	20.8	104.11
122 1,2-Dichlorobenzene	20.0	21.4	107.03
125 Dodecane	20.0	20.9	104.39
126 1,2,4-Trichlorobenzene	20.0	20.3	101.44
128 Hexachlorobutadiene	20.0	20.7	103.50
127 Naphthalene	20.0	19.7	98.66
129 1,2,3-Trichlorobenzene	20.0	19.7	98.53
A 144 C6 Range	20.0	20.2	100.90
A 154 Total VOC as Hexane	20.0	1748.5	8742.46
A 150 Nonmethane Organic Compounds as Hexane	20.0	1748.5	8742.46
S 155 Xylenes, Total	60.0	66.4	110.60

Reagent

VACORPSTKLCS_00021



SHIPPED TO: Test America W Sacramento
880 Riverside Pkwy
West Sacramento, CA 95605-1500

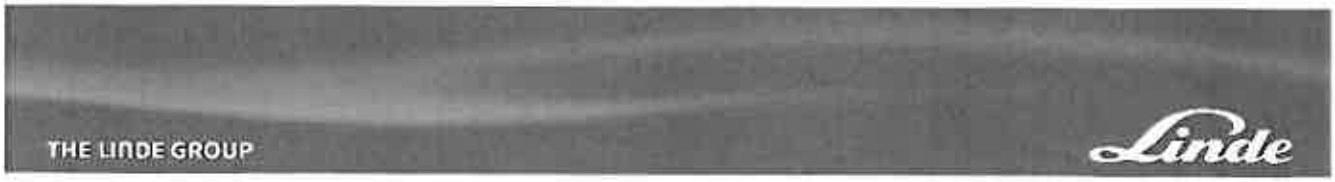
PAGE: **1 of 4**

Recertified 12/14/17 Exp. Date 4/28/2018

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	~~Dec-17-2015~~ SM 12/18/17	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.00 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.04 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	1.00 ppm
Freon-114	76-14-2	1.00 ppm	1.00 ppm
Vinyl Chloride	75-01-4	1.00 ppm	1.01 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.03 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	1.03 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	0.98 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.09 ppm
Acetonitrile	75-05-8	1.00 ppm	1.02 ppm
Acrolein (No Stability Guarantee)	107-02-8	1.00 ppm	0.96 ppm
Isopentane	78-78-4	1.00 ppm	1.08 ppm
Acetone	67-64-1	1.00 ppm	1.08 ppm
Freon-11	75-69-4	1.00 ppm	0.96 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.07 ppm
n-Pentane	109-66-0	1.00 ppm	1.07 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.06 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	1.10 ppm
Carbon Disulfide (No Stability Guarantee)	75-15-0	1.00 ppm	1.05 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.06 ppm
Tert-Butanol		1.00 ppm	1.06 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.06 ppm
Freon-113	76-13-1	1.00 ppm	1.08 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.06 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.07 ppm



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880 Riverside Pkwy
West Sacramento, CA 95605-1500

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	Dec-17-2015	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.04 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.06 ppm
Hexane	110-54-3	1.00 ppm	1.10 ppm
Chloroform	67-66-3	1.00 ppm	1.06 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.06 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.11 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.05 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.03 ppm
Benzene	71-43-2	1.00 ppm	1.05 ppm
1-Butanol	71-36-3	1.00 ppm	1.12 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.08 ppm
Cyclohexane	110-82-7	1.00 ppm	1.08 ppm
Dibromomethane	74-95-3	1.00 ppm	1.04 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.04 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.04 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.04 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.04 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.08 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.01 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.08 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.02 ppm
Toluene	108-88-3	1.00 ppm	1.06 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.12 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.04 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm

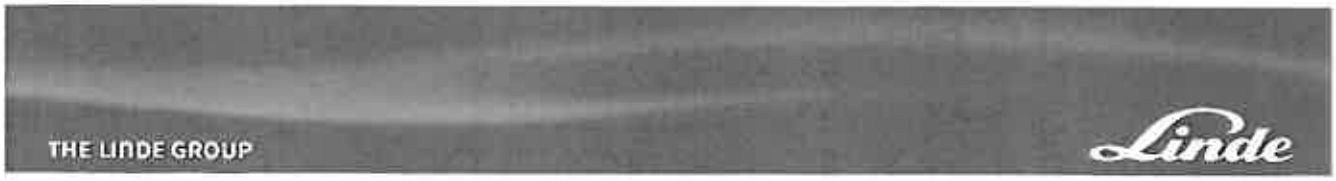


SHIPPED TO: Test America W Sacramento
880 Riverside Pkwy
West Sacramento, CA 95605-1500

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	Dec-17-2015	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	0.99 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.05 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.05 ppm
p-xylene	106-42-3	1.00 ppm	1.02 ppm
m-xylene	108-38-3	1.00 ppm	1.02 ppm
Bromoform	75-25-2	1.00 ppm	1.02 ppm
Styrene	100-42-5	1.00 ppm	1.04 ppm
o-xylene	95-47-6	1.00 ppm	1.04 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.04 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.03 ppm
Nonane	111-84-2	1.00 ppm	1.02 ppm
Cumene	98-82-8	1.00 ppm	1.04 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	0.99 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.06 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.03 ppm
alpha-Methyl Styrene (No Stability Guarantee)	98-83-9	1.00 ppm	1.01 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.01 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.01 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.00 ppm
Benzyl Chloride (No Stability Guarantee)	100-44-7	1.00 ppm	0.80 ppm
n-Decane	124-18-5	1.00 ppm	1.02 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.02 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.01 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.00 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	0.97 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.02 ppm
n-Undecane	1120-21-4	1.00 ppm	0.96 ppm



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West Sacramento, CA 95605-1500

PAGE: 4 of 4

CERTIFICATE OF ANALYSIS

Sales#:	112203337	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2969920	**Cylinder # :**	CC-230119
Certification Date:	Dec-17-2014	**Cylinder Pressure:**	1150 psig
P.O.# :	2586698	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004551	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	2300 Liters
Expiration Date:	Dec-17-2015	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.07 ppm
Naphthalene (No Stability Guarantee)	91-20-3	1.00 ppm	1.07 ppm
n-Dodecane	112-40-3	1.00 ppm	0.97 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.01 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.02 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti

DATE: Dec-17-2014

Linde Gas North America LLC

(908) 329-9700 Main (908) 329-9740 Fax
www.Lindeus.com

Preliminary Report

TestAmerica Sacramento
LCS, Lab Control Sample Report

Data File:	\\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121605.D				
Lims ID:	LCS 20 ppbv				
Client ID:					
Sample Type:	LCS				
Inject. Date:	16-Dec-2017 14:01:30	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	LCS 20ppbv				
Misc. Info.:	50mL w/100ppbv				
Operator ID:	SV	Instrument ID:	ATMS9		
Method:	\\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\TO15_ATMS9N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	18-Dec-2017 08:01:03	Calib Date:	16-Dec-2017 13:11:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121604.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				

Compound	Amount Added	Amount Recovered	%Rec
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.41	110.29
$ 5 Toluene-d8 (Surr)	4.00	4.02	100.43
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.13	103.14
14 Propene	20.0	22.5	112.71
13 Chlorodifluoromethane	20.0	20.8	104.01
15 Dichlorodifluoromethane	20.0	20.8	104.13
19 1,2-Dichloro-1,1,2,2-tetrafluoroethane	20.0	19.1	95.57
18 Chloromethane	20.0	21.2	106.05
22 Butane	20.0	21.0	105.19
20 Vinyl chloride	20.0	21.0	104.99
21 Butadiene	20.0	21.3	106.36
25 Bromomethane	20.0	21.8	108.82
26 Chloroethane	20.0	21.2	106.13
27 Vinyl bromide	20.0	19.9	99.49
28 Trichlorofluoromethane	20.0	20.9	104.58
38 Pentane	20.0	21.7	108.54
39 Ethyl ether	20.0	20.7	103.67
29 Acrolein	20.0	25.4	127.13
31 Acetone	20.0	19.6	97.92
43 1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.8	108.97
41 1,1-Dichloroethene	20.0	21.3	106.28
30 Acetonitrile	20.0	20.6	102.96

Preliminary Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121605.D

Compound	Amount Added	Amount Recovered	%Rec
44 2-Methyl-2-propanol	20.0	23.9	119.41
46 3-Chloro-1-propene	20.0	23.7	118.61
47 Methylene Chloride	20.0	21.4	107.18
48 Carbon disulfide	20.0	16.6	83.20
42 Acrylonitrile	20.0	20.9	104.72
50 Methyl tert-butyl ether	20.0	19.5	97.74
49 trans-1,2-Dichloroethene	20.0	20.0	99.95
55 Hexane	20.0	20.2	100.99
53 1,1-Dichloroethane	20.0	22.1	110.50
52 Vinyl acetate	20.0	24.2	120.90
54 2-Butanone (MEK)	20.0	20.0	99.95
57 cis-1,2-Dichloroethene	20.0	22.4	111.82
58 Ethyl acetate	20.0	18.7	93.29
61 Chloroform	20.0	22.6	113.16
62 Tetrahydrofuran	20.0	20.0	99.79
65 1,1,1-Trichloroethane	20.0	22.6	112.94
70 Cyclohexane	20.0	20.3	101.27
74 Isooctane	20.0	20.5	102.62
69 Carbon tetrachloride	20.0	21.8	109.08
67 n-Butanol	20.0	25.7	128.55
66 1,2-Dichloroethane	20.0	21.0	105.13
68 Benzene	20.0	21.6	107.91
75 n-Heptane	20.0	20.5	102.40
76 Trichloroethene	20.0	21.7	108.68
77 1,2-Dichloropropane	20.0	21.1	105.41
79 Methyl methacrylate	20.0	19.7	98.51
80 Dichlorobromomethane	20.0	20.6	103.07
72 1,4-Dioxane	20.0	21.5	107.33
78 Dibromomethane	20.0	22.1	110.38
81 4-Methyl-2-pentanone (MIBK)	20.0	22.2	110.87
83 cis-1,3-Dichloropropene	20.0	24.8	123.94
88 n-Octane	20.0	21.4	106.90
85 Toluene	20.0	20.7	103.49
84 trans-1,3-Dichloropropene	20.0	21.0	104.98
86 1,1,2-Trichloroethane	20.0	21.2	105.85
87 2-Hexanone	20.0	21.8	108.91
93 Tetrachloroethene	20.0	21.3	106.54

Preliminary Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171216-51833.b\MS9121605.D

Compound	Amount Added	Amount Recovered	%Rec
92 Chlorodibromomethane	20.0	21.3	106.73
94 Ethylene Dibromide	20.0	21.7	108.56
96 Chlorobenzene	20.0	21.7	108.31
99 n-Nonane	20.0	21.2	106.00
97 Ethylbenzene	20.0	21.6	107.88
98 m-Xylene p-Xylene	40.0	44.3	110.76
101 o-Xylene	20.0	22.1	110.28
100 Styrene	20.0	22.6	113.06
102 Bromoform	20.0	21.9	109.71
104 Isopropylbenzene	20.0	21.8	108.94
103 1,1,2,2-Tetrachloroethane	20.0	21.4	107.24
105 1,2,3-Trichloropropane	20.0	21.2	105.77
113 n-Decane	20.0	20.9	104.35
107 N-Propylbenzene	20.0	20.9	104.53
110 4-Ethyltoluene	20.0	20.6	102.85
111 1,3,5-Trimethylbenzene	20.0	21.4	106.84
109 2-Chlorotoluene	20.0	20.9	104.69
112 Alpha Methyl Styrene	20.0	21.4	107.10
114 tert-Butylbenzene	20.0	21.0	105.00
115 1,2,4-Trimethylbenzene	20.0	21.3	106.57
116 sec-Butylbenzene	20.0	21.1	105.58
121 4-Isopropyltoluene	20.0	21.2	105.86
117 1,3-Dichlorobenzene	20.0	20.9	104.50
120 1,4-Dichlorobenzene	20.0	20.9	104.41
118 Benzyl chloride	16.0	17.4	108.67
124 Undecane	20.0	21.0	104.93
123 n-Butylbenzene	20.0	20.8	104.11
122 1,2-Dichlorobenzene	20.0	21.4	107.03
125 Dodecane	20.0	20.9	104.39
126 1,2,4-Trichlorobenzene	20.0	20.3	101.44
128 Hexachlorobutadiene	20.0	20.7	103.50
127 Naphthalene	20.0	19.7	98.66
129 1,2,3-Trichlorobenzene	20.0	19.7	98.53
A 144 C6 Range	20.0	20.2	100.90
A 154 Total VOC as Hexane	20.0	1748.5	8742.46
A 150 Nonmethane Organic Compounds as Hexane	20.0	1748.5	8742.46
S 155 Xylenes, Total	60.0	66.4	110.60

Reagent

VAMSIS300_00019

THE LINDE GROUP

Linde

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880 Riverside Pkwy
West Sacramento, CA 95605-1500

PAGE: 1 of 1

Recertified 6/5/17 * Exp. 6/5/18

CERTIFICATE OF ANALYSIS

Sales#:	113248191	**Cylinder Size:**	2A (8" X 47.5")
Production#:	1351258	**Cylinder # :**	CC-430251
Certification Date:	Sep-21-2015	**Cylinder Pressure:**	2000 psig
P.O.# :	2617825	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086333	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Sep-21-2016	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	10% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane	74-97-5	300 ppb	311 ppb
1,2-Dichloroethane-d4	17060-07-0	300 ppb	319 ppb
1,4-Difluorobenzene	540-36-3	300 ppb	324 ppb
Toluene-d8	2037-26-5	300 ppb	330 ppb
Chlorobenzene-d5	3114-55-4	300 ppb	329 ppb
4-Bromofluorobenzene	460-00-4	300 ppb	328 ppb
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti **DATE:** Sep-21-2015

Linde Gas North America LLC

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Preliminary Report

TestAmerica Sacramento
Internal Standard Recovery Report

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20170605-43833.b\17060503.D				
Lims ID:	CCVIS 20ppbv				
Client ID:					
Sample Type:	CCVIS				
Inject. Date:	05-Jun-2017 13:08:30	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	CCVIS 20PPBV				
Misc. Info.:	125mL				
Operator ID:	SRS	Instrument ID:	ATMS2		
Sublist:	chrom-TO15_ATMS2N*sub66				
Method:	\\ChromNA\Sacramento\ChromData\ATMS2\20170605-43833.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15_MOD - ICAL				
Last Update:	05-Jun-2017 14:03:03	Calib Date:	12-May-2017 11:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Sacramento\ChromData\ATMS2\20170511-42985.b\17051132.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK029				
Istd Cal Sample:	\\ChromNA\Sacramento\ChromData\ATMS2\20170511-42985.b\17051120.D				
Sample Type:	ICIS	ICal Level:	7		
Sublist:	chrom-TO15_ATMS2N*sub69				
Sample Info:	ICIS 20PPBV				
Misc. Info:	125mL				

Mass Chromat Area Recoveries, Detector: MS SCAN

Compound	Standard	Lower Limit	Upper Limit	Sample	% Rec
* 1 Chlorobromomethane (IS)	84487	50693	118281	77113	91.27
* 2 1,4-Difluorobenzene	321812	193088	450536	292854	91.00
* 3 Chlorobenzene-d5 (IS)	295086	177052	413120	250822	85.00

RT Recoveries

Compound	Standard	Lower Limit	Upper Limit	Sample	DLT(min.)	% Diff
* 1 Chlorobromomethane (IS)	11.408	10.908	11.908	11.408	0.000	0.000
* 2 1,4-Difluorobenzene	13.507	13.007	14.007	13.500	0.006	-0.045
* 3 Chlorobenzene-d5 (IS)	19.566	19.066	20.066	19.560	0.006	-0.031

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.500 minutes of internal standard RT.
RT LOWER LIMIT = - 0.500 minutes of internal standard RT.

Method TO15 DOD

Volatile Organic Compounds (GC/MS) by Method TO15 DOD

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-Volatil ID: 0.32(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
774VMP-1_0318	320-37345-1	109	97	97
774VMP-2_0318	320-37345-2	109	98	91
774VMP-3_0318	320-37345-3	114	90	97
776VMP-1_0318	320-37345-5	111	96	90
776VMP-2_0318	320-37345-6	111	100	98
776VMP-2_0318-a	320-37345-7	110	95	84
776VMP-3_0318	320-37345-8	104	106	88
776OA-1_0318	320-37345-10	114	96	84
785VMP-2_0318	320-37345-11	114	99	98
785VMP-2_0318-a	320-37345-12	115	104	96
785VMP-4_0318	320-37345-13	108	99	98
785VMP-5_0318	320-37345-14	111	95	95
786VMP-1_0318	320-37345-16	110	99	108
786VMP-2_0318	320-37345-17	110	97	102
786VMP-3_0318	320-37345-18	111	105	96
785OA-1_0318	320-37345-20	110	101	89
774776INF_0318	320-37345-21	112	92	96
	MB 320-216210/7	106	102	87
	MB 320-216406/6	109	98	83
	LCS 320-216210/3	112	101	107
	LCS 320-216406/3	115	101	107
	LCSD 320-216210/4	113	100	106
	LCSD 320-216406/4	115	102	108

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040403.D

Lab ID: LCS 320-216210/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	109	117	107	68-125	
1,1,2,2-Tetrachloroethane	137	139	101	65-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	153	158	103	66-126	
1,1,2-Trichloroethane	109	109	100	73-119	
1,1-Dichloroethane	80.9	86.1	106	68-126	
1,1-Dichloroethene	79.3	88.4	112	61-133	
1,2,4-Trichlorobenzene	148	147	99	55-142	
1,2,4-Trimethylbenzene	98.3	109	111	66-132	
1,2-Dibromoethane (EDB)	154	155	101	74-122	
1,2-Dichlorobenzene	120	125	104	63-129	
1,2-Dichloroethane	80.9	92.4	114	65-128	
1,2-Dichloropropane	92.4	104	112	69-123	
1,3,5-Trimethylbenzene	98.3	103	104	67-130	
1,3-Dichlorobenzene	120	129	107	65-130	
1,4-Dichlorobenzene	120	126	104	60-131	
2-Butanone (MEK)	59.0	60.9	103	67-130	
2-Hexanone	82.0	87.3	107	62-128	
4-Ethyltoluene	98.3	108	110	67-129	
4-Methyl-2-pentanone (MIBK)	81.9	92.3	113	67-130	
Acetone	47.5	52.8	111	58-128	
Benzene	63.9	65.8	103	69-119	
Benzyl chloride	82.8	75.4	91	50-147	
Bromodichloromethane	134	141	106	72-128	
Bromoform	207	205	99	66-139	
Bromomethane	77.7	73.3	94	63-134	
Butadiene	44.2	52.4	119	66-134	
Carbon disulfide	62.3	64.4	103	57-134	
Carbon tetrachloride	126	117	93	68-132	
Chlorobenzene	92.1	92.4	100	70-119	
Chloroethane	52.8	56.8	108	63-127	
Chloroform	97.7	105	108	68-123	
Chloromethane	41.3	44.3	107	59-132	
cis-1,2-Dichloroethene	79.3	80.8	102	70-121	
cis-1,3-Dichloropropene	90.8	95.5	105	70-128	
Dibromochloromethane	170	173	101	70-130	
Dichlorodifluoromethane	98.9	93.3	94	59-128	
Ethylbenzene	86.8	92.7	107	70-124	
Hexachlorobutadiene	213	204	96	56-138	
Methyl tert-butyl ether	72.1	77.7	108	66-126	
Methylene Chloride	69.5	74.9	108	62-115	
m-Xylene & p-Xylene	174	189	109	61-134	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040403.D

Lab ID: LCS 320-216210/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
Naphthalene	105	89.8	86	57-138	
o-Xylene	86.8	95.4	110	67-125	
Styrene	85.2	96.0	113	73-127	
Tetrachloroethene	136	134	99	66-124	
Toluene	75.4	76.8	102	66-119	
trans-1,2-Dichloroethene	79.3	85.5	108	67-124	
trans-1,3-Dichloropropene	90.8	95.4	105	75-133	
Trichloroethene	107	109	102	71-123	
Trichlorofluoromethane	112	123	110	62-126	
Vinyl acetate	70.4	71.9	102	56-139	
Vinyl chloride	51.1	52.8	103	64-127	
1,4-Dioxane	72.1	69.6	97	71-122	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040503.D

Lab ID: LCS 320-216406/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	109	118	108	68-125	
1,1,2,2-Tetrachloroethane	137	135	98	65-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	153	156	102	66-126	
1,1,2-Trichloroethane	109	109	100	73-119	
1,1-Dichloroethane	80.9	85.7	106	68-126	
1,1-Dichloroethene	79.3	87.3	110	61-133	
1,2,4-Trichlorobenzene	148	139	94	55-142	
1,2,4-Trimethylbenzene	98.3	103	104	66-132	
1,2-Dibromoethane (EDB)	154	153	100	74-122	
1,2-Dichlorobenzene	120	122	101	63-129	
1,2-Dichloroethane	80.9	92.7	115	65-128	
1,2-Dichloropropane	92.4	104	112	69-123	
1,3,5-Trimethylbenzene	98.3	99.2	101	67-130	
1,3-Dichlorobenzene	120	124	103	65-130	
1,4-Dichlorobenzene	120	120	100	60-131	
2-Butanone (MEK)	59.0	61.7	105	67-130	
2-Hexanone	82.0	85.2	104	62-128	
4-Ethyltoluene	98.3	104	106	67-129	
4-Methyl-2-pentanone (MIBK)	81.9	91.6	112	67-130	
Acetone	47.5	52.9	111	58-128	
Benzene	63.9	65.5	102	69-119	
Benzyl chloride	82.8	71.4	86	50-147	
Bromodichloromethane	134	142	106	72-128	
Bromoform	207	199	96	66-139	
Bromomethane	77.7	77.8	100	63-134	
Butadiene	44.2	50.5	114	66-134	
Carbon disulfide	62.3	62.8	101	57-134	
Carbon tetrachloride	126	114	91	68-132	
Chlorobenzene	92.1	89.7	97	70-119	
Chloroethane	52.8	55.3	105	63-127	
Chloroform	97.7	104	107	68-123	
Chloromethane	41.3	44.9	109	59-132	
cis-1,2-Dichloroethene	79.3	80.1	101	70-121	
cis-1,3-Dichloropropene	90.8	94.9	105	70-128	
Dibromochloromethane	170	170	100	70-130	
Dichlorodifluoromethane	98.9	90.2	91	59-128	
Ethylbenzene	86.8	89.5	103	70-124	
Hexachlorobutadiene	213	196	92	56-138	
Methyl tert-butyl ether	72.1	77.1	107	66-126	
Methylene Chloride	69.5	74.4	107	62-115	
m-Xylene & p-Xylene	174	182	105	61-134	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040503.D

Lab ID: LCS 320-216406/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
Naphthalene	105	86.1	82	57-138	
o-Xylene	86.8	92.4	106	67-125	
Styrene	85.2	92.7	109	73-127	
Tetrachloroethene	136	130	96	66-124	
Toluene	75.4	75.2	100	66-119	
trans-1,2-Dichloroethene	79.3	84.3	106	67-124	
trans-1,3-Dichloropropene	90.8	95.1	105	75-133	
Trichloroethene	107	108	101	71-123	
Trichlorofluoromethane	112	122	108	62-126	
Vinyl acetate	70.4	72.2	103	56-139	
Vinyl chloride	51.1	52.0	102	64-127	
1,4-Dioxane	72.1	68.7	95	71-122	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040404.D

Lab ID: LCSD 320-216210/4 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCSD CONCENTRATION (ug/m3)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	109	117	107	0	25	68-125	
1,1,2,2-Tetrachloroethane	137	140	102	1	25	65-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	153	158	103	0	25	66-126	
1,1,2-Trichloroethane	109	110	101	1	25	73-119	
1,1-Dichloroethane	80.9	86.6	107	1	25	68-126	
1,1-Dichloroethene	79.3	87.9	111	1	25	61-133	
1,2,4-Trichlorobenzene	148	148	99	0	25	55-142	
1,2,4-Trimethylbenzene	98.3	110	111	0	25	66-132	
1,2-Dibromoethane (EDB)	154	157	102	1	25	74-122	
1,2-Dichlorobenzene	120	125	104	0	25	63-129	
1,2-Dichloroethane	80.9	90.8	112	2	25	65-128	
1,2-Dichloropropane	92.4	103	112	1	25	69-123	
1,3,5-Trimethylbenzene	98.3	104	105	1	25	67-130	
1,3-Dichlorobenzene	120	130	108	1	25	65-130	
1,4-Dichlorobenzene	120	127	105	1	25	60-131	
2-Butanone (MEK)	59.0	62.4	106	2	25	67-130	
2-Hexanone	82.0	88.5	108	1	25	62-128	
4-Ethyltoluene	98.3	108	110	0	25	67-129	
4-Methyl-2-pentanone (MIBK)	81.9	91.2	111	1	25	67-130	
Acetone	47.5	52.4	110	1	25	58-128	
Benzene	63.9	65.2	102	1	25	69-119	
Benzyl chloride	82.8	75.4	91	0	25	50-147	
Bromodichloromethane	134	141	105	1	25	72-128	
Bromoform	207	207	100	1	25	66-139	
Bromomethane	77.7	74.7	96	2	25	63-134	
Butadiene	44.2	52.7	119	1	25	66-134	
Carbon disulfide	62.3	64.4	103	0	25	57-134	
Carbon tetrachloride	126	114	91	2	25	68-132	
Chlorobenzene	92.1	92.5	100	0	25	70-119	
Chloroethane	52.8	57.4	109	1	25	63-127	
Chloroform	97.7	105	107	0	25	68-123	
Chloromethane	41.3	44.6	108	1	25	59-132	
cis-1,2-Dichloroethene	79.3	80.9	102	0	25	70-121	
cis-1,3-Dichloropropene	90.8	94.8	104	1	25	70-128	
Dibromochloromethane	170	174	102	1	25	70-130	
Dichlorodifluoromethane	98.9	93.2	94	0	25	59-128	
Ethylbenzene	86.8	93.1	107	0	25	70-124	
Hexachlorobutadiene	213	208	97	2	25	56-138	
Methyl tert-butyl ether	72.1	78.1	108	1	25	66-126	
Methylene Chloride	69.5	74.8	108	0	25	62-115	
m-Xylene & p-Xylene	174	189	109	0	25	61-134	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040404.D

Lab ID: LCSD 320-216210/4 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCSD CONCENTRATION (ug/m3)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	105	91.0	87	1	25	57-138	
o-Xylene	86.8	95.7	110	0	25	67-125	
Styrene	85.2	96.8	114	1	25	73-127	
Tetrachloroethene	136	134	99	0	25	66-124	
Toluene	75.4	75.9	101	1	25	66-119	
trans-1,2-Dichloroethene	79.3	85.2	107	0	25	67-124	
trans-1,3-Dichloropropene	90.8	96.8	107	1	25	75-133	
Trichloroethene	107	108	101	1	25	71-123	
Trichlorofluoromethane	112	122	109	1	25	62-126	
Vinyl acetate	70.4	72.3	103	0	25	56-139	
Vinyl chloride	51.1	53.0	104	0	25	64-127	
1,4-Dioxane	72.1	68.6	95	1	25	71-122	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040504.D

Lab ID: LCSD 320-216406/4 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCSD CONCENTRATION (ug/m3)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	109	117	108	1	25	68-125	
1,1,2,2-Tetrachloroethane	137	135	98	0	25	65-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	153	155	101	1	25	66-126	
1,1,2-Trichloroethane	109	108	99	1	25	73-119	
1,1-Dichloroethane	80.9	86.4	107	1	25	68-126	
1,1-Dichloroethene	79.3	87.3	110	0	25	61-133	
1,2,4-Trichlorobenzene	148	142	96	2	25	55-142	
1,2,4-Trimethylbenzene	98.3	106	108	4	25	66-132	
1,2-Dibromoethane (EDB)	154	153	99	1	25	74-122	
1,2-Dichlorobenzene	120	121	101	0	25	63-129	
1,2-Dichloroethane	80.9	93.2	115	1	25	65-128	
1,2-Dichloropropane	92.4	105	114	1	25	69-123	
1,3,5-Trimethylbenzene	98.3	99.5	101	0	25	67-130	
1,3-Dichlorobenzene	120	125	104	1	25	65-130	
1,4-Dichlorobenzene	120	120	100	0	25	60-131	
2-Butanone (MEK)	59.0	62.0	105	1	25	67-130	
2-Hexanone	82.0	85.5	104	0	25	62-128	
4-Ethyltoluene	98.3	106	107	2	25	67-129	
4-Methyl-2-pentanone (MIBK)	81.9	92.1	112	1	25	67-130	
Acetone	47.5	52.7	111	0	25	58-128	
Benzene	63.9	66.1	103	1	25	69-119	
Benzyl chloride	82.8	71.9	87	1	25	50-147	
Bromodichloromethane	134	144	107	1	25	72-128	
Bromoform	207	199	96	0	25	66-139	
Bromomethane	77.7	87.0	112	11	25	63-134	
Butadiene	44.2	47.7	108	6	25	66-134	
Carbon disulfide	62.3	63.8	102	2	25	57-134	
Carbon tetrachloride	126	115	91	1	25	68-132	
Chlorobenzene	92.1	90.2	98	1	25	70-119	
Chloroethane	52.8	56.0	106	1	25	63-127	
Chloroform	97.7	105	107	0	25	68-123	
Chloromethane	41.3	44.4	107	1	25	59-132	
cis-1,2-Dichloroethene	79.3	81.3	103	2	25	70-121	
cis-1,3-Dichloropropene	90.8	95.8	105	1	25	70-128	
Dibromochloromethane	170	170	100	0	25	70-130	
Dichlorodifluoromethane	98.9	91.2	92	1	25	59-128	
Ethylbenzene	86.8	90.2	104	1	25	70-124	
Hexachlorobutadiene	213	196	92	0	25	56-138	
Methyl tert-butyl ether	72.1	78.0	108	1	25	66-126	
Methylene Chloride	69.5	74.3	107	0	25	62-115	
m-Xylene & p-Xylene	174	182	105	0	25	61-134	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: MS7040504.D

Lab ID: LCSD 320-216406/4 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCSD CONCENTRATION (ug/m3)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	105	84.5	81	2	25	57-138	
o-Xylene	86.8	92.9	107	0	25	67-125	
Styrene	85.2	93.6	110	1	25	73-127	
Tetrachloroethene	136	130	96	0	25	66-124	
Toluene	75.4	76.3	101	1	25	66-119	
trans-1,2-Dichloroethene	79.3	84.8	107	1	25	67-124	
trans-1,3-Dichloropropene	90.8	94.4	104	1	25	75-133	
Trichloroethene	107	109	102	1	25	71-123	
Trichlorofluoromethane	112	121	108	0	25	62-126	
Vinyl acetate	70.4	72.0	102	0	25	56-139	
Vinyl chloride	51.1	51.8	101	0	25	64-127	
1,4-Dioxane	72.1	69.4	96	1	25	71-122	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab File ID: MS7040407.D Lab Sample ID: MB 320-216210/7

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

Instrument ID: ATMS7 Date Analyzed: 04/04/2018 15:07

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-216210/3	MS7040403.D	04/04/2018 11:32
	LCSD 320-216210/4	MS7040404.D	04/04/2018 12:25
774VMP-1_0318	320-37345-1	MS7040412.D	04/04/2018 19:39
774VMP-2_0318	320-37345-2	MS7040413.D	04/04/2018 20:36
774VMP-3_0318	320-37345-3	MS7040414.D	04/04/2018 21:32
776VMP-1_0318	320-37345-5	MS7040415.D	04/04/2018 22:29
776VMP-2_0318	320-37345-6	MS7040416.D	04/04/2018 23:25
776VMP-2_0318-a	320-37345-7	MS7040418.D	04/05/2018 01:16
776VMP-3_0318	320-37345-8	MS7040419.D	04/05/2018 02:13

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab File ID: MS7040507.D Lab Sample ID: MB 320-216406/6

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

Instrument ID: ATMS7 Date Analyzed: 04/05/2018 16:27

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-216406/3	MS7040503.D	04/05/2018 12:52
	LCSD 320-216406/4	MS7040504.D	04/05/2018 13:45
774776INF_0318	320-37345-21	MS7040509.D	04/05/2018 18:23
776OA-1_0318	320-37345-10	MS7040510.D	04/05/2018 19:18
785VMP-2_0318	320-37345-11	MS7040511.D	04/05/2018 20:15
785VMP-2_0318-a	320-37345-12	MS7040512.D	04/05/2018 21:11
785VMP-4_0318	320-37345-13	MS7040513.D	04/05/2018 22:08
786VMP-1_0318	320-37345-16	MS7040515.D	04/06/2018 00:01
786VMP-2_0318	320-37345-17	MS7040516.D	04/06/2018 00:57
786VMP-3_0318	320-37345-18	MS7040518.D	04/06/2018 02:48
785OA-1_0318	320-37345-20	MS7040519.D	04/06/2018 03:44
785VMP-5_0318	320-37345-14	MS7040524.D	04/06/2018 08:21

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab File ID: MS7031401.D BFB Injection Date: 03/14/2018

Instrument ID: ATMS7 BFB Injection Time: 14:31

Analysis Batch No.: 212907

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	23.5	
75	30.0 - 66.0% of mass 95	50.6	
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 - 120.0% of mass 95	85.7	
175	4.0 - 9.0 % of mass 174	6.2	(7.2) 1
176	93.0 - 101.0% of mass 174	82.6	(96.4) 1
177	5.0 - 9.0% of mass 176	5.5	(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 320-212907/3	MS7031403.D	03/14/2018	17:28
	IC 320-212907/4	MS7031404.D	03/14/2018	18:21
	IC 320-212907/5	MS7031405.D	03/14/2018	19:13
	IC 320-212907/6	MS7031406.D	03/14/2018	20:07
	IC 320-212907/8	MS7031408.D	03/14/2018	21:57
	ICIS 320-212907/9	MS7031409.D	03/14/2018	22:49
	IC 320-212907/10	MS7031410.D	03/14/2018	23:44
	IC 320-212907/11	MS7031411.D	03/15/2018	00:39
	IC 320-212907/14	MS7031414.D	03/15/2018	07:51
	ICV 320-212907/15	MS7031415.D	03/15/2018	09:01

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab File ID: MS7040401.D BFB Injection Date: 04/04/2018

Instrument ID: ATMS7 BFB Injection Time: 09:47

Analysis Batch No.: 216210

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	27.7	
75	30.0 - 66.0% of mass 95	54.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	79.2	
175	4.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	93.0 - 101.0% of mass 174	76.8	(97.0) 1
177	5.0 - 9.0% of mass 176	5.1	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 320-216210/2	MS7040402.D	04/04/2018	10:39
	LCS 320-216210/3	MS7040403.D	04/04/2018	11:32
	LCSD 320-216210/4	MS7040404.D	04/04/2018	12:25
	MB 320-216210/7	MS7040407.D	04/04/2018	15:07
774VMP-1_0318	320-37345-1	MS7040412.D	04/04/2018	19:39
774VMP-2_0318	320-37345-2	MS7040413.D	04/04/2018	20:36
774VMP-3_0318	320-37345-3	MS7040414.D	04/04/2018	21:32
776VMP-1_0318	320-37345-5	MS7040415.D	04/04/2018	22:29
776VMP-2_0318	320-37345-6	MS7040416.D	04/04/2018	23:25
776VMP-2_0318-a	320-37345-7	MS7040418.D	04/05/2018	01:16
776VMP-3_0318	320-37345-8	MS7040419.D	04/05/2018	02:13
	CCVC 320-216210/23	MS7040423.D	04/05/2018	09:34

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab File ID: MS7040501.D BFB Injection Date: 04/05/2018

Instrument ID: ATMS7 BFB Injection Time: 11:07

Analysis Batch No.: 216406

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	28.1	
75	30.0 - 66.0% of mass 95	54.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	80.0	
175	4.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	93.0 - 101.0% of mass 174	77.4	(96.7) 1
177	5.0 - 9.0% of mass 176	5.0	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 320-216406/2	MS7040502.D	04/05/2018	11:59
	LCS 320-216406/3	MS7040503.D	04/05/2018	12:52
	LCSD 320-216406/4	MS7040504.D	04/05/2018	13:45
	MB 320-216406/6	MS7040507.D	04/05/2018	16:27
774776INF_0318	320-37345-21	MS7040509.D	04/05/2018	18:23
776OA-1_0318	320-37345-10	MS7040510.D	04/05/2018	19:18
785VMP-2_0318	320-37345-11	MS7040511.D	04/05/2018	20:15
785VMP-2_0318-a	320-37345-12	MS7040512.D	04/05/2018	21:11
785VMP-4_0318	320-37345-13	MS7040513.D	04/05/2018	22:08
786VMP-1_0318	320-37345-16	MS7040515.D	04/06/2018	00:01
786VMP-2_0318	320-37345-17	MS7040516.D	04/06/2018	00:57
786VMP-3_0318	320-37345-18	MS7040518.D	04/06/2018	02:48
785OA-1_0318	320-37345-20	MS7040519.D	04/06/2018	03:44
785VMP-5_0318	320-37345-14	MS7040524.D	04/06/2018	08:21
	CCVC 320-216406/27	MS7040526.D	04/06/2018	10:17

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Sample No.: ICIS 320-212907/9 Date Analyzed: 03/14/2018 22:49

Instrument ID: ATMS7 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS7031409.D Heated Purge: (Y/N) N

Calibration ID: 38159

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		38220	12.19	173408	14.35	199238	21.03
UPPER LIMIT		53508	12.52	242771	14.68	278933	21.36
LOWER LIMIT		22932	11.86	104045	14.02	119543	20.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 320-212907/15		52991	12.20	223976	14.35	234544	21.02
CCVIS 320-216210/2		30441	12.23	137110	14.39	155948	21.06
CCVIS 320-216406/2		31631	12.21	139106	14.36	157334	21.04

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Sample No.: CCVIS 320-216210/2 Date Analyzed: 04/04/2018 10:39

Instrument ID: ATMS7 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS7040402.D Heated Purge: (Y/N) N

Calibration ID: 38171

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		30441	12.23	137110	14.39	155948	21.06
UPPER LIMIT		42617	12.56	191954	14.72	218327	21.39
LOWER LIMIT		18265	11.90	82266	14.06	93569	20.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 320-216210/3		32979	12.23	143442	14.39	154263	21.07
LCSD 320-216210/4		34044	12.24	149187	14.39	157785	21.07
MB 320-216210/7		32744	12.26	145395	14.41	149356	21.09
320-37345-1	774VMP-1_0318	29120	12.25	129273	14.41	132914	21.07
320-37345-2	774VMP-2_0318	29527	12.24	131234	14.40	133616	21.08
320-37345-3	774VMP-3_0318	26457	12.22	112476	14.38	100456	21.06
320-37345-5	776VMP-1_0318	27172	12.22	118435	14.38	113260	21.06
320-37345-6	776VMP-2_0318	27461	12.22	120667	14.38	126923	21.06
320-37345-7	776VMP-2_0318-a	27321	12.22	119269	14.38	110382	21.06
320-37345-8	776VMP-3_0318	30397	12.23	150890	14.38	165020	21.06
CCVC 320-216210/23		28507	12.22	125077	14.37	134695	21.04

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Sample No.: CCVIS 320-216406/2 Date Analyzed: 04/05/2018 11:59

Instrument ID: ATMS7 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS7040502.D Heated Purge: (Y/N) N

Calibration ID: 38171

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		31631	12.21	139106	14.36	157334	21.04
UPPER LIMIT		44283	12.54	194748	14.69	220268	21.37
LOWER LIMIT		18979	11.88	83464	14.03	94400	20.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 320-216406/3		33720	12.22	147204	14.37	156876	21.05
LCSD 320-216406/4		34410	12.23	148863	14.38	161481	21.06
MB 320-216406/6		32450	12.24	144223	14.39	139952	21.07
320-37345-21	774776INF_0318	28582	12.24	123920	14.39	108075	21.07
320-37345-10	776OA-1_0318	27495	12.24	124036	14.40	116705	21.08
320-37345-11	785VMP-2_0318	27962	12.23	116435	14.39	117898	21.07
320-37345-12	785VMP-2_0318-a	26527	12.22	114383	14.38	124635	21.06
320-37345-13	785VMP-4_0318	28299	12.22	125207	14.38	129614	21.06
320-37345-16	786VMP-1_0318	25959	12.24	120491	14.40	129252	21.06
320-37345-17	786VMP-2_0318	30625	12.25	134517	14.41	137046	21.07
320-37345-18	786VMP-3_0318	28692	12.24	125522	14.39	137912	21.07
320-37345-20	785OA-1_0318	31114	12.24	146025	14.40	153128	21.07
320-37345-14	785VMP-5_0318	28306	12.25	121872	14.41	121022	21.08
CCVC 320-216406/27		29499	12.26	133159	14.42	150885	21.08

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774VMP-1_0318 | Lab Sample ID: 320-37345-1

Matrix: Air | Lab File ID: MS7040412.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:00

Sample wt/vol: 386(mL) | Date Analyzed: 04/04/2018 19:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U M	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.5	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	21		12	0.95	0.42
71-43-2	Benzene	0.53	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	1.5	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774VMP-1_0318 Lab Sample ID: 320-37345-1

Matrix: Air Lab File ID: MS7040412.D

Analysis Method: TO-15 Date Collected: 03/21/2018 16:00

Sample wt/vol: 386(mL) Date Analyzed: 04/04/2018 19:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.8	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.87	U	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.49	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.87	U	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U M	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.77	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	8.4		4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D
Lims ID: 320-37345-A-1
Client ID: 774VMP-1_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 19:39:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-1
Misc. Info.: 386 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:28:38 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:28:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.254	12.235	0.019	93	29120	4.00	
* 2 1,4-Difluorobenzene	114	14.407	14.389	0.018	96	129273	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.069	0.000	91	132914	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.452	13.434	0.018	98	53236	4.37	
$ 5 Toluene-d8 (Surr)	100	17.796	17.790	0.006	98	87228	3.87	
$ 6 4-Bromofluorobenzene (Surr	95	23.612	23.618	-0.006	86	95777	3.88	
13 Dichlorodifluoromethane	85	3.913	3.915	0.006	74	4317	0.3678	
16 Chloromethane	50	4.376	4.357	0.019	98	4656	0.7399	
26 Trichlorofluoromethane	101	6.407	6.408	0.012	97	24037	1.50	
32 Acetone	43	7.326	7.308	0.018	100	118994	8.70	
33 1,1,2-Trichloro-1,2,2-trif	101	7.503	7.503	0.024	45	1649	0.1248	Ma
39 Methylene Chloride	49	8.677	8.677	0.013	81	1586	0.1420	
48 2-Butanone (MEK)	72	11.213	11.199	0.036	93	1872	0.5030	
53 Chloroform	83	11.974	11.968	0.012	2	719	0.0486	
55 1,1,1-Trichloroethane	97	12.917	12.917	0.012	1	984	0.0605	a
59 Carbon tetrachloride	117	13.495	13.494	0.006	71	1628	0.0891	
63 Benzene	78	13.781	13.786	0.019	93	3986	0.1644	
65 Trichloroethene	130	15.168	15.162	0.012	77	665	0.0571	
75 Toluene	91	17.972	17.997	0.006	93	7000	0.2052	
78 2-Hexanone	58	18.757	18.730	0.049	88	490	0.0303	
86 Ethylbenzene	91	21.337	21.349	0.013	92	2724	0.0586	
87 m-Xylene & p-Xylene	91	21.513	21.532	0.006	12	2121	0.0590	
88 o-Xylene	91	22.401	22.433	-0.006	70	806	0.0225	
89 Styrene	104	22.444	22.464	0.006	1	1012	0.0366	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

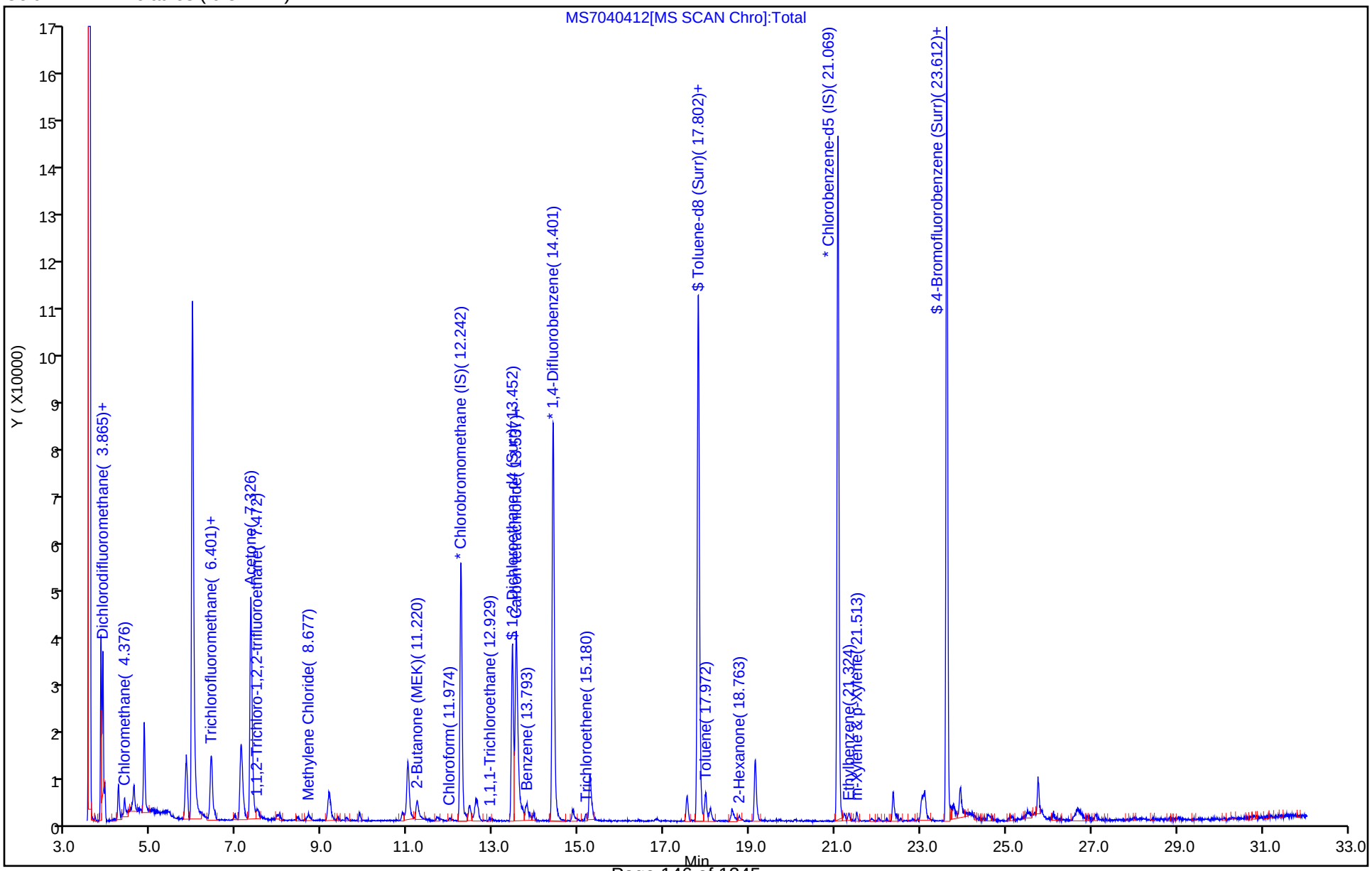
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1	Worklist Smp#:	12
Client ID:	774VMP-1_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D
Lims ID: 320-37345-A-1
Client ID: 774VMP-1_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 19:39:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-1
Misc. Info.: 386 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:28:38 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:28:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.37	109.16
$ 5 Toluene-d8 (Surr)	4.00	3.87	96.84
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.88	96.98

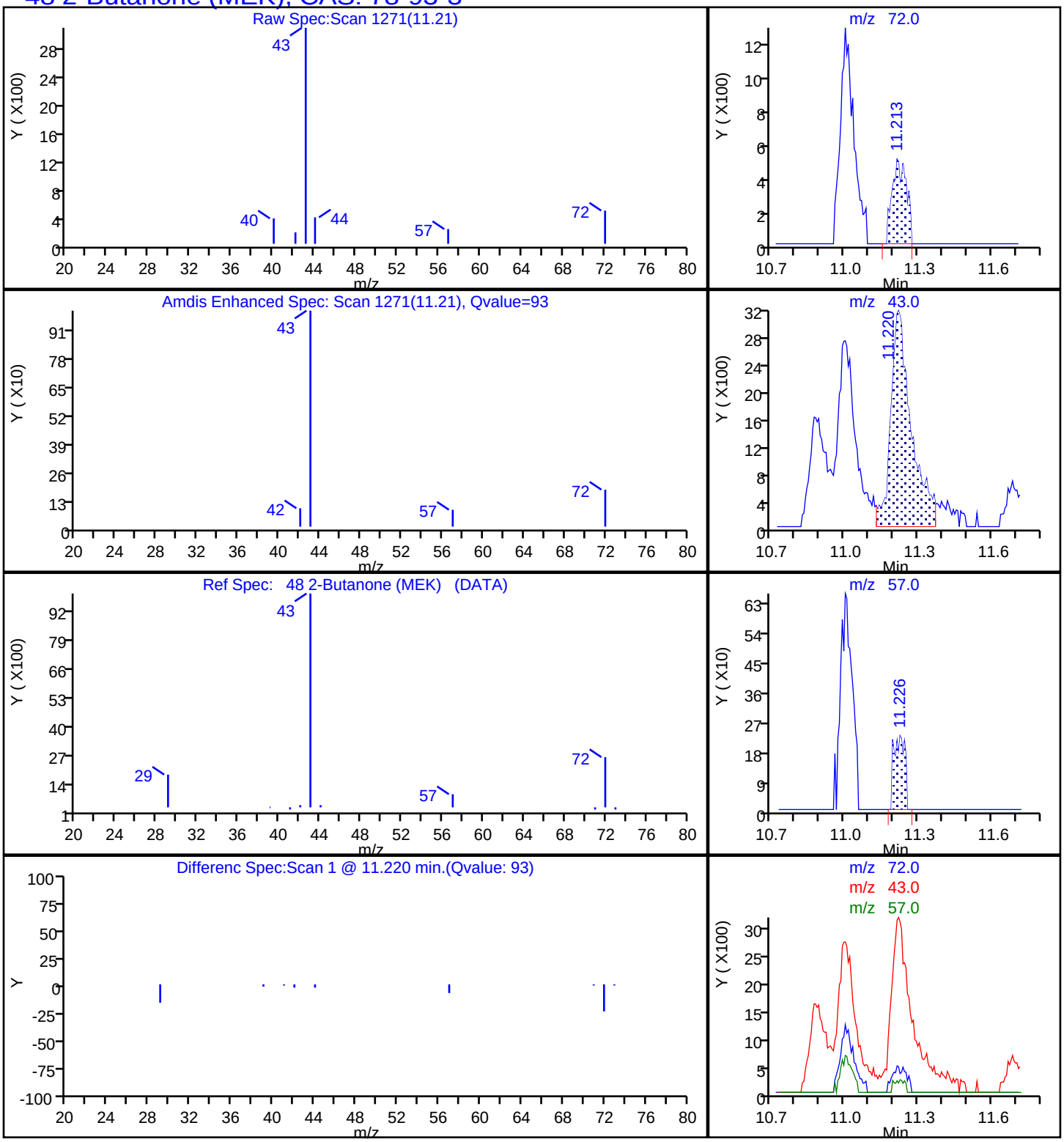
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



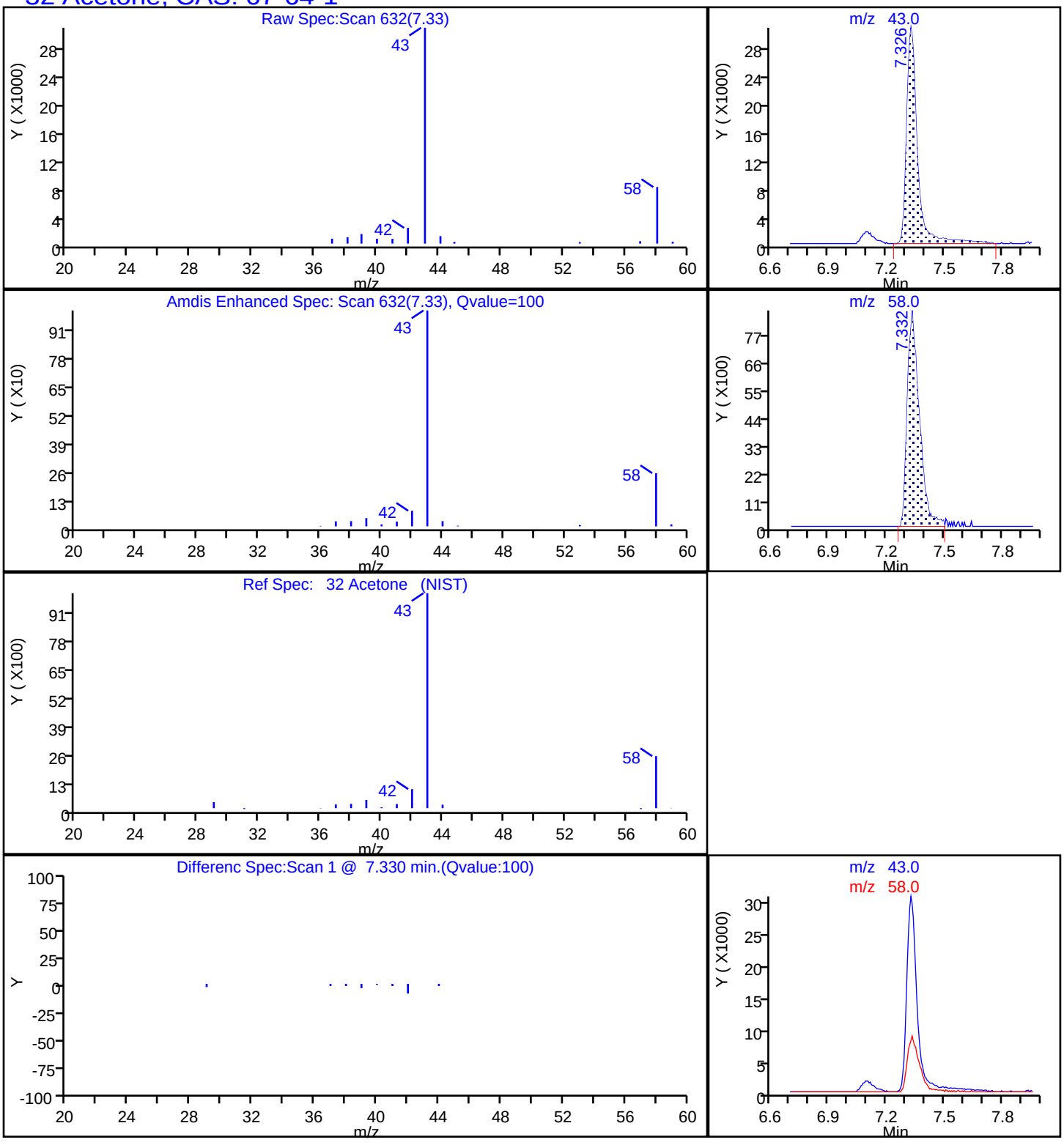
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

32 Acetone, CAS: 67-64-1



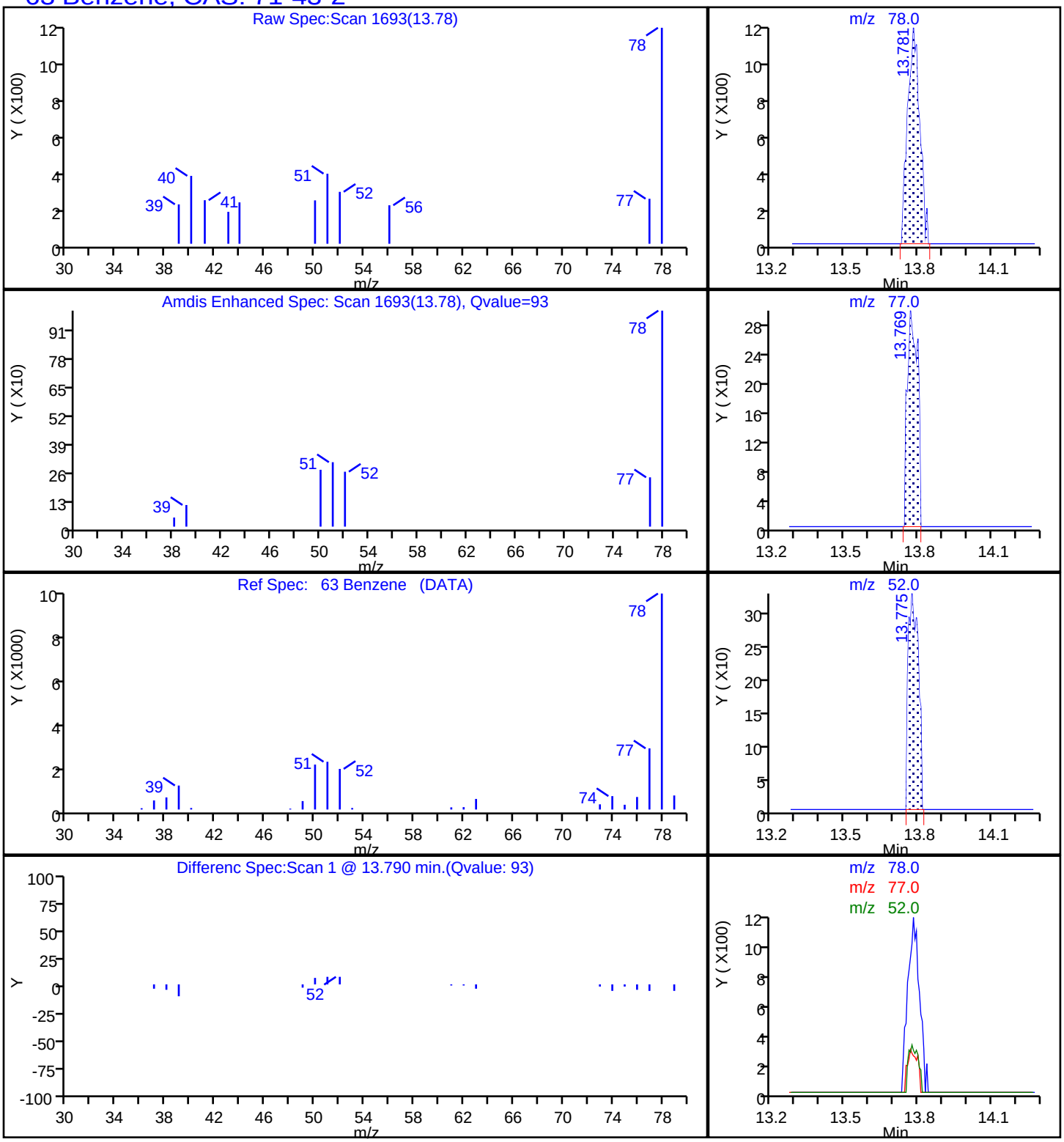
Report Date: 05-Apr-2018 12:28:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



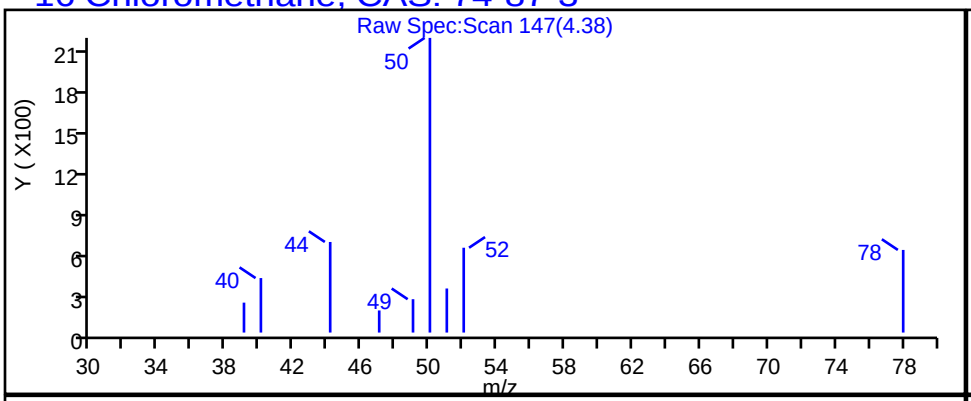
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

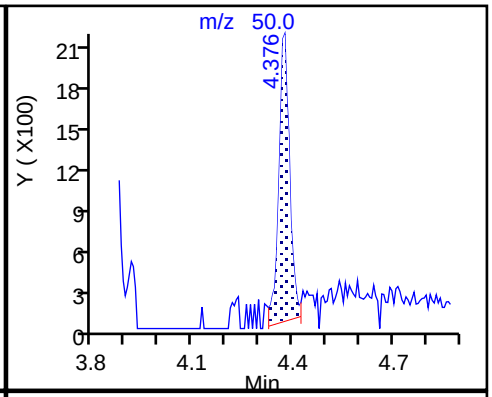
TestAmerica Sacramento

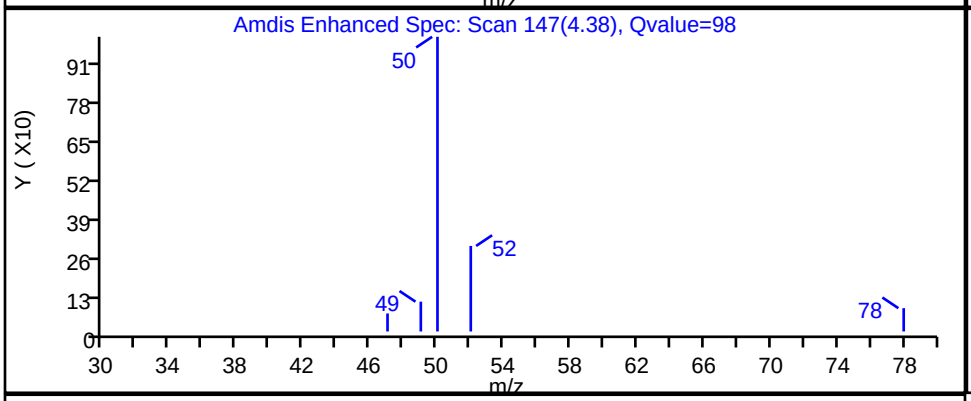
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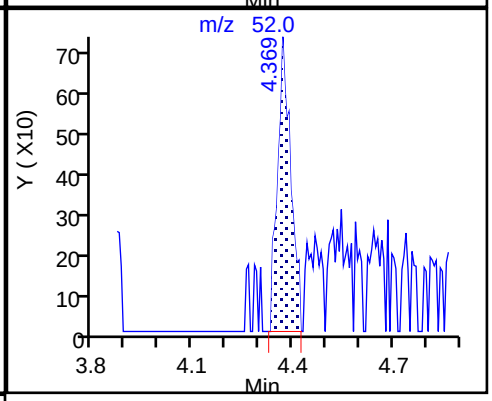
Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

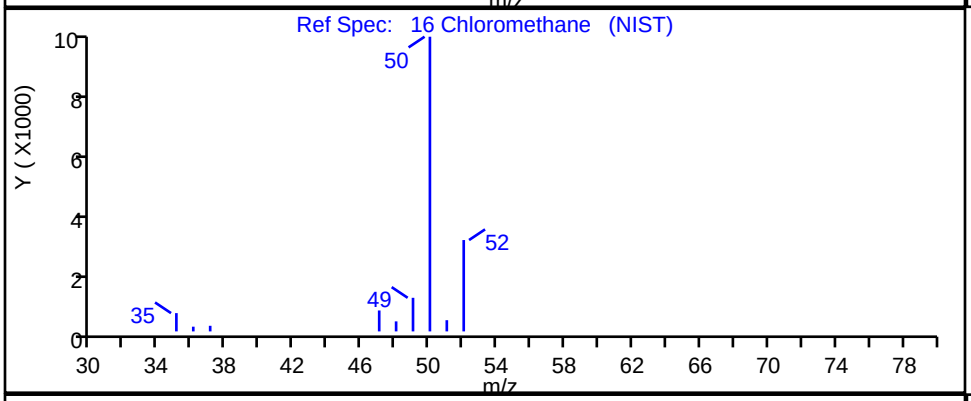
16 Chloromethane, CAS: 74-87-3

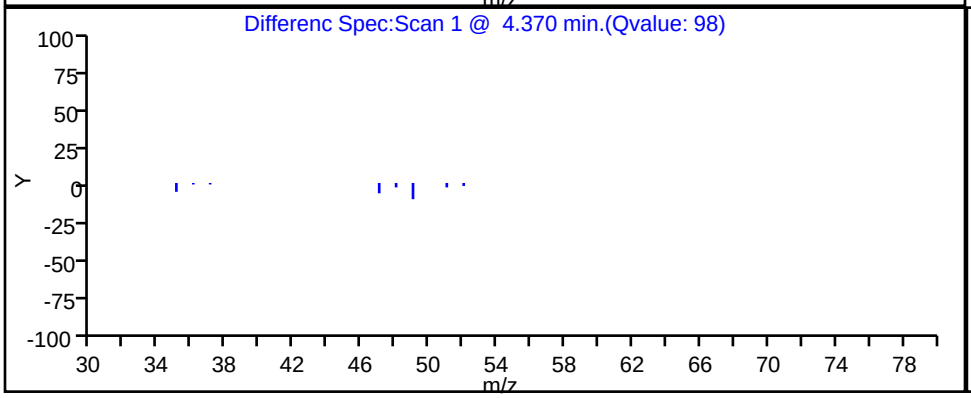


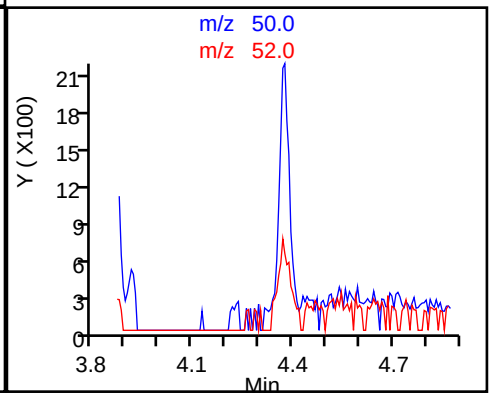












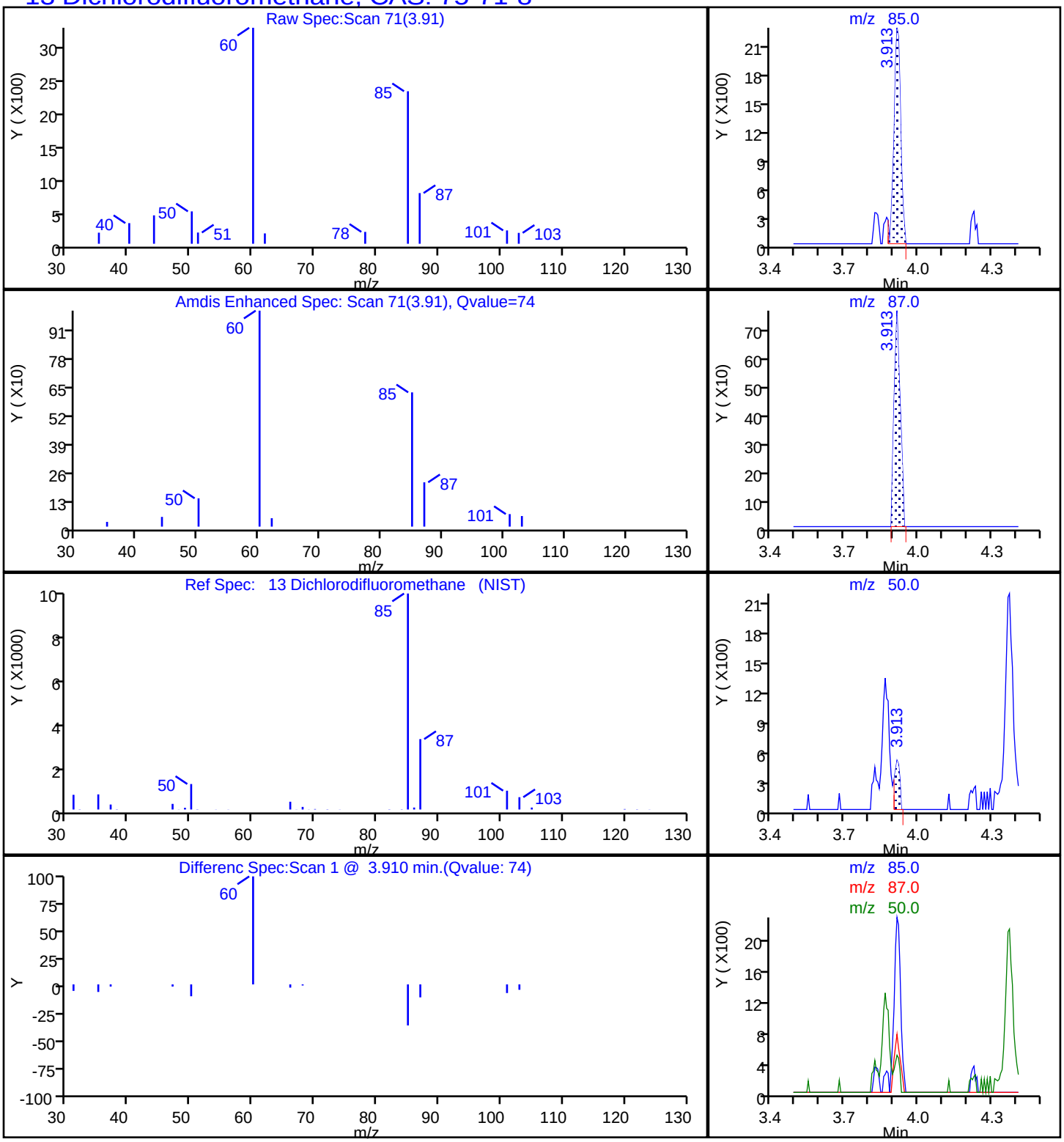
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



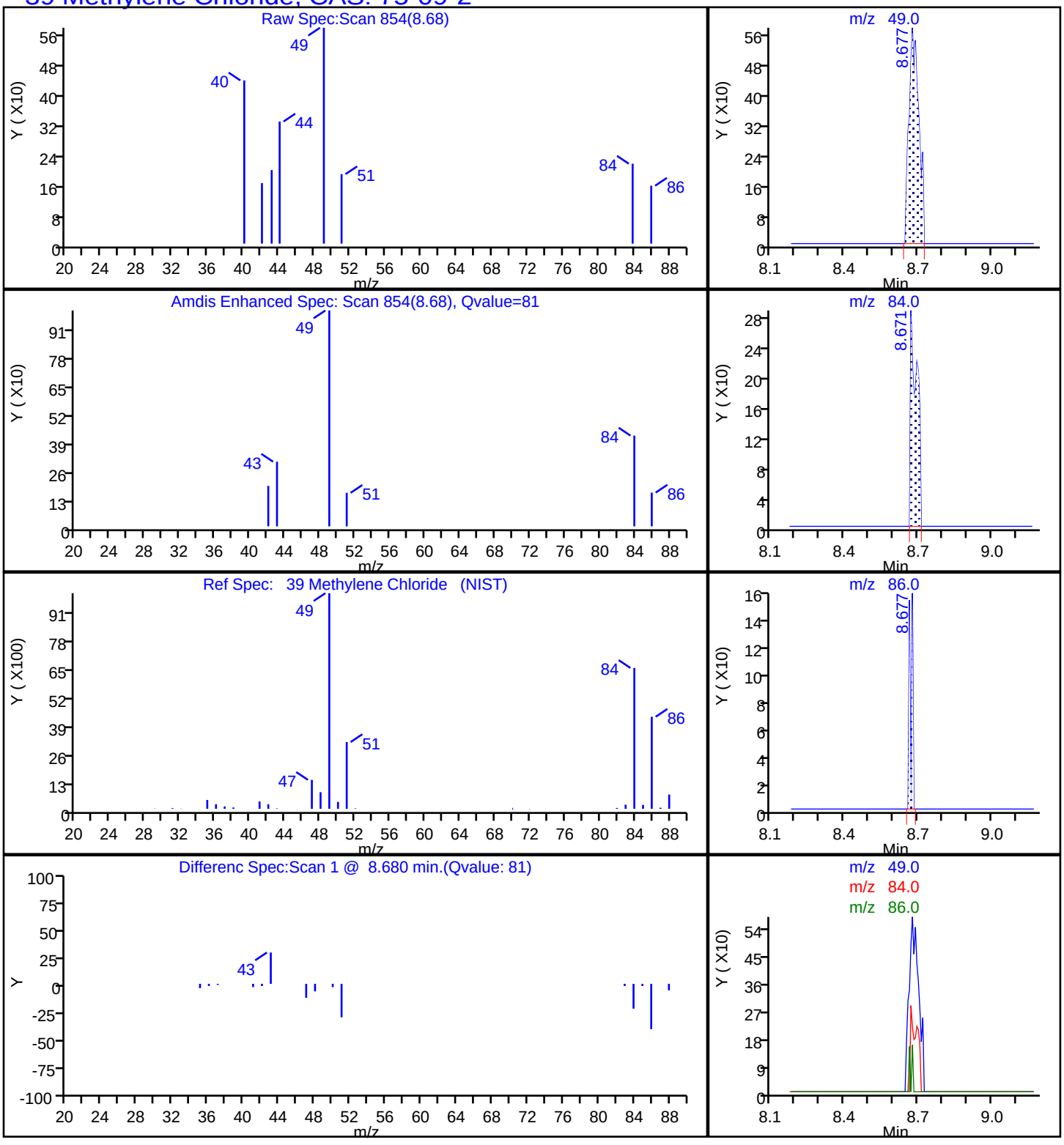
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



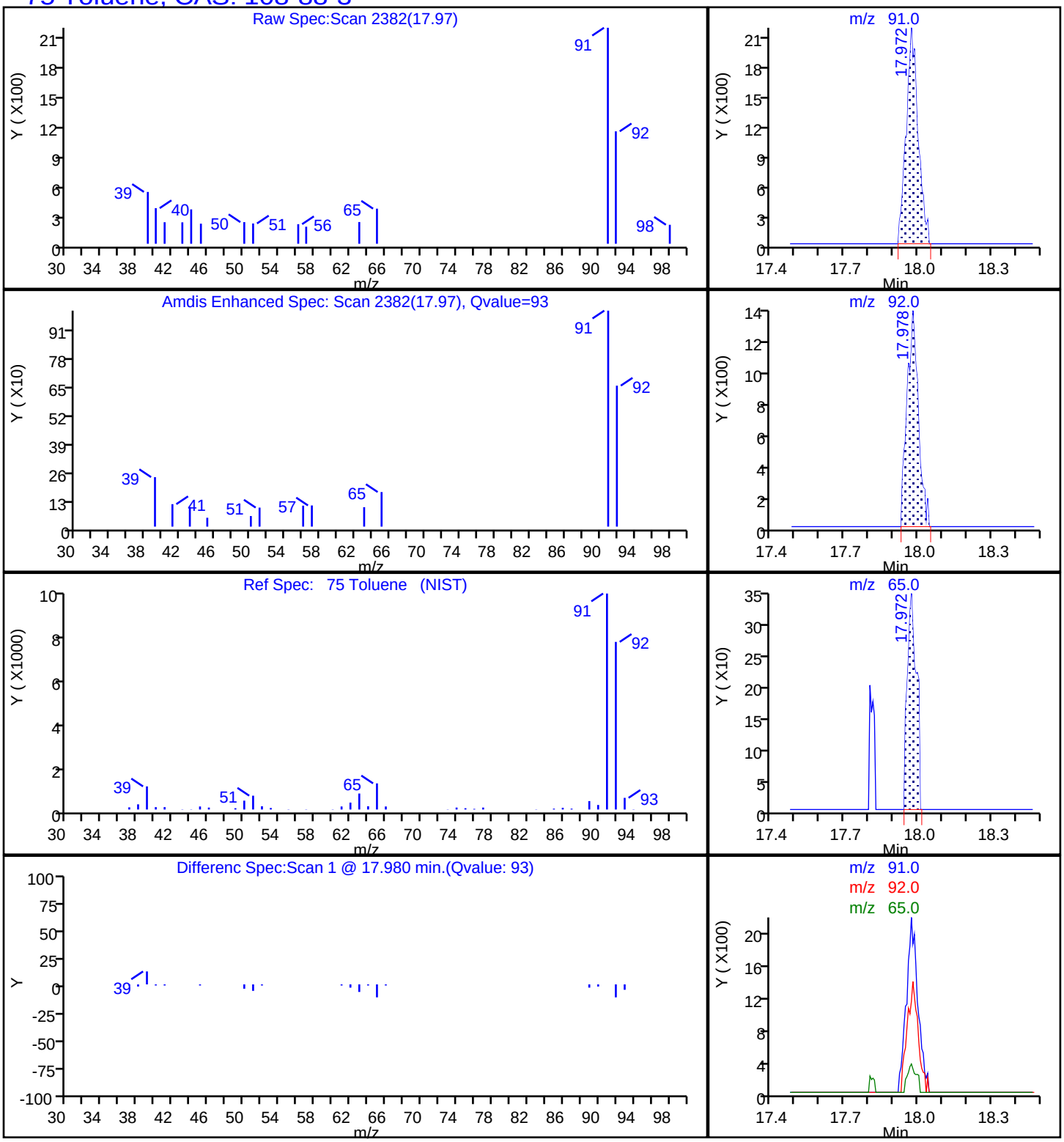
Report Date: 05-Apr-2018 12:28:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



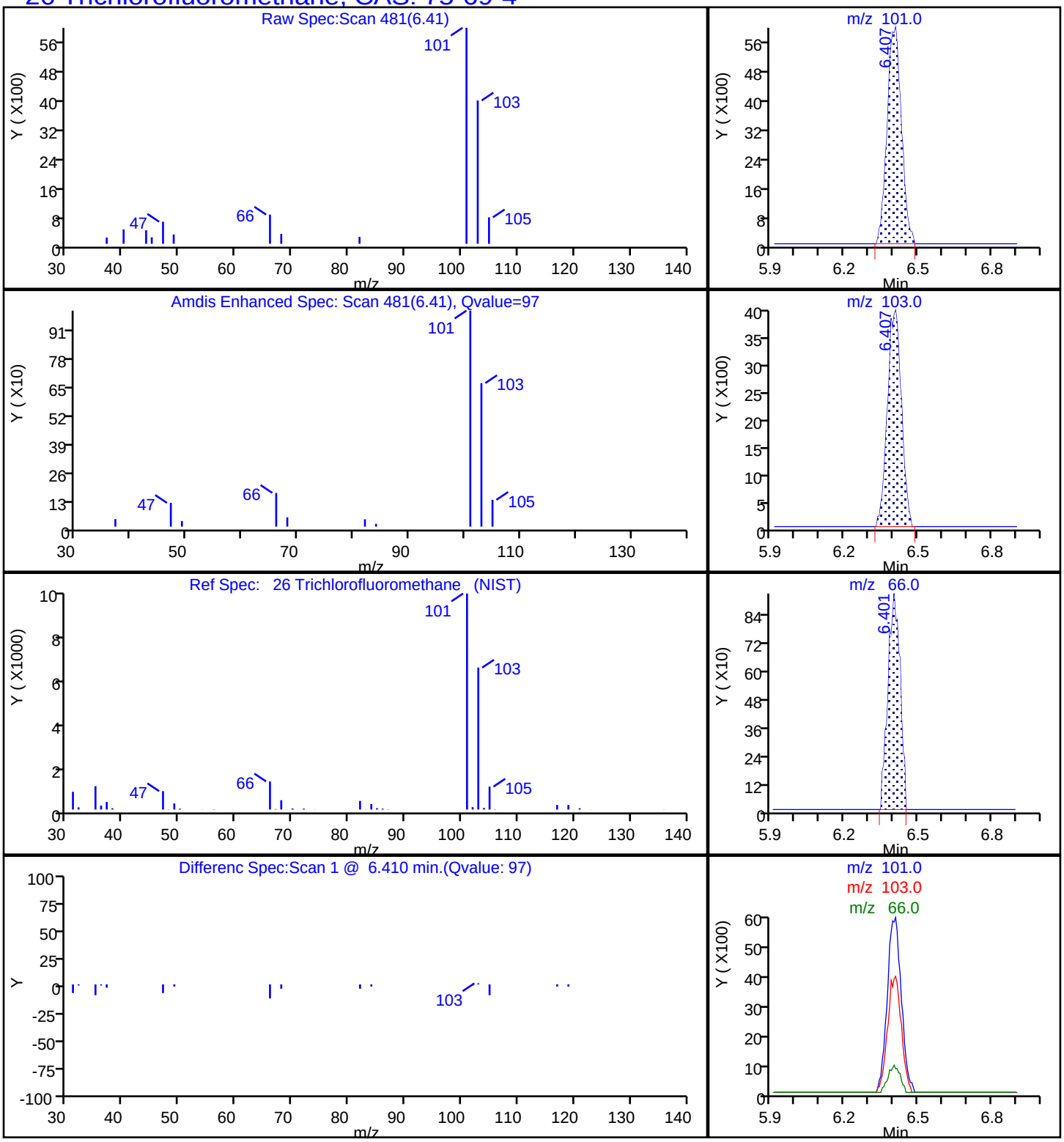
Report Date: 05-Apr-2018 12:28:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D

Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1
Client ID:	774VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

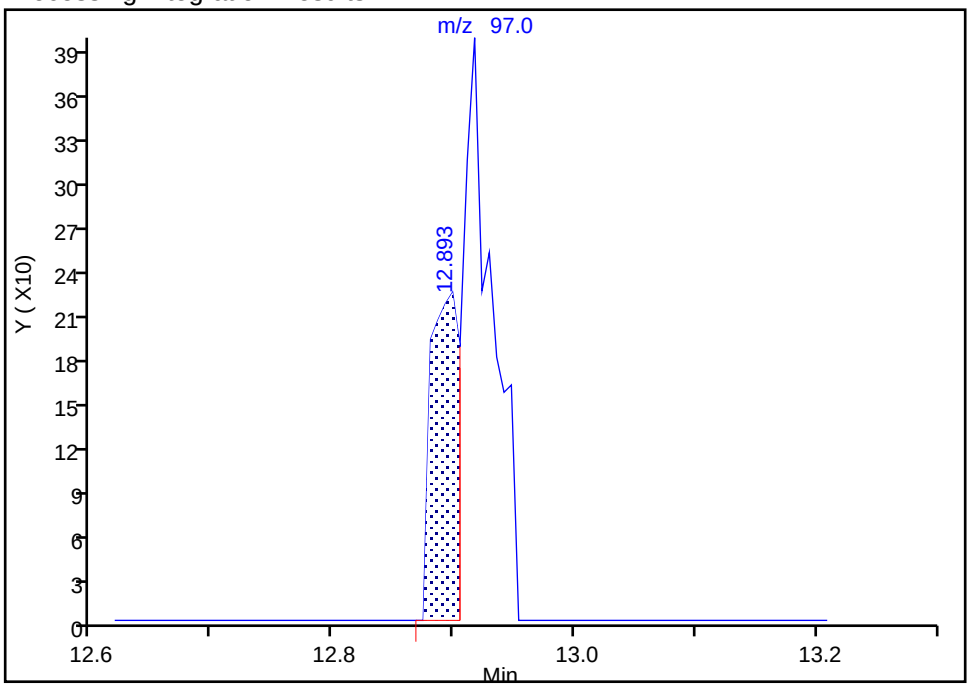
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D				
Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1		
Client ID:	774VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Signal: 1

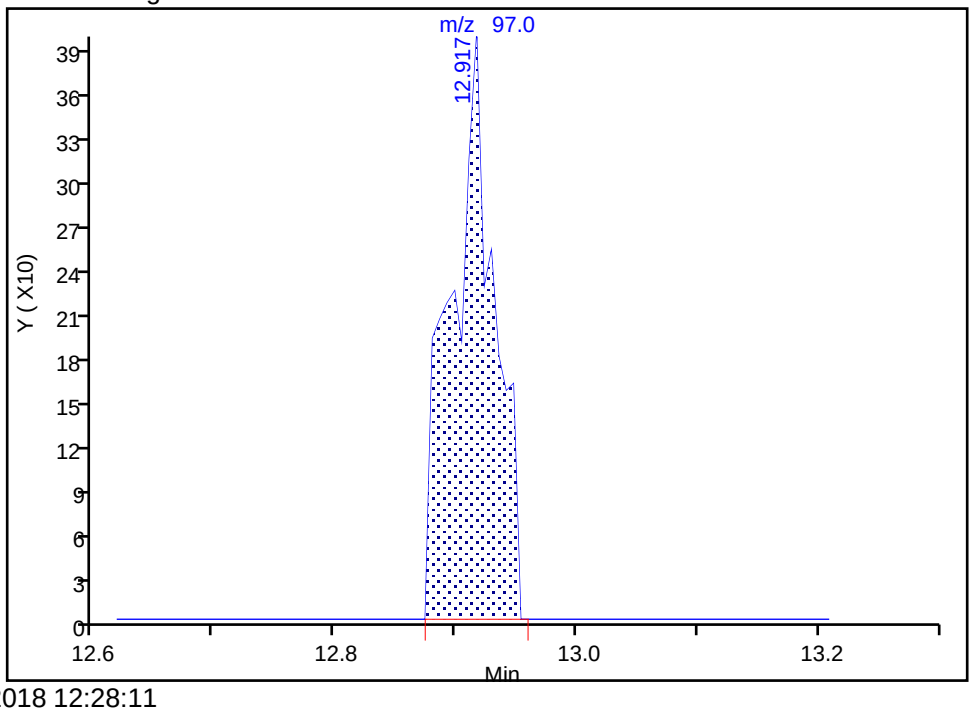
Processing Integration Results

RT: 12.89
Area: 372
Amount: 0.022880
Amount Units: ppb v/v



Manual Integration Results

RT: 12.92
Area: 984
Amount: 0.060521
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 12:28:11

Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

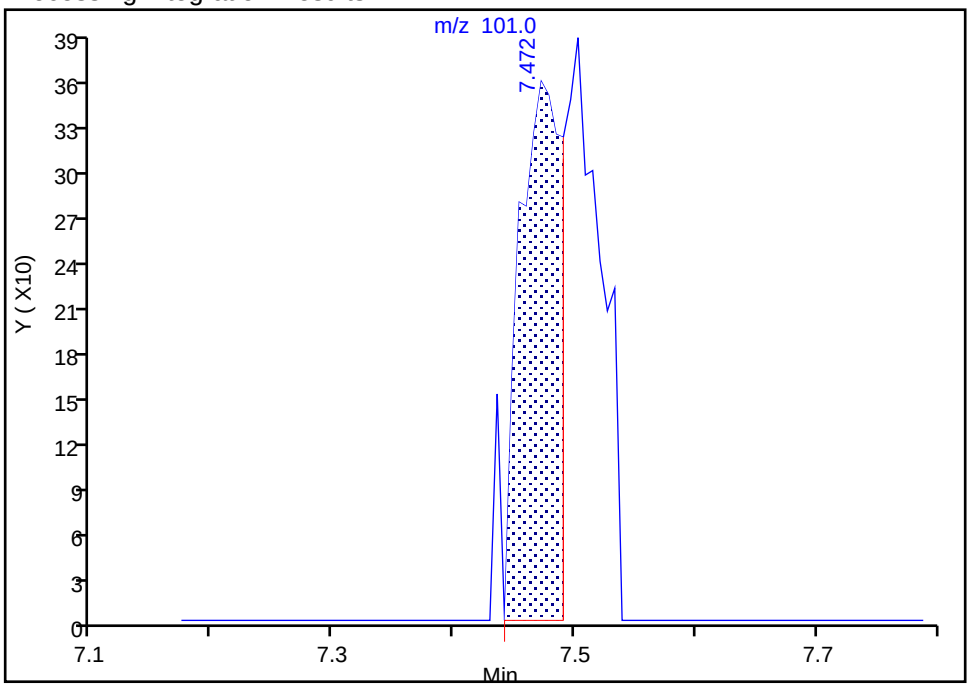
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Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1		
Client ID:	774VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

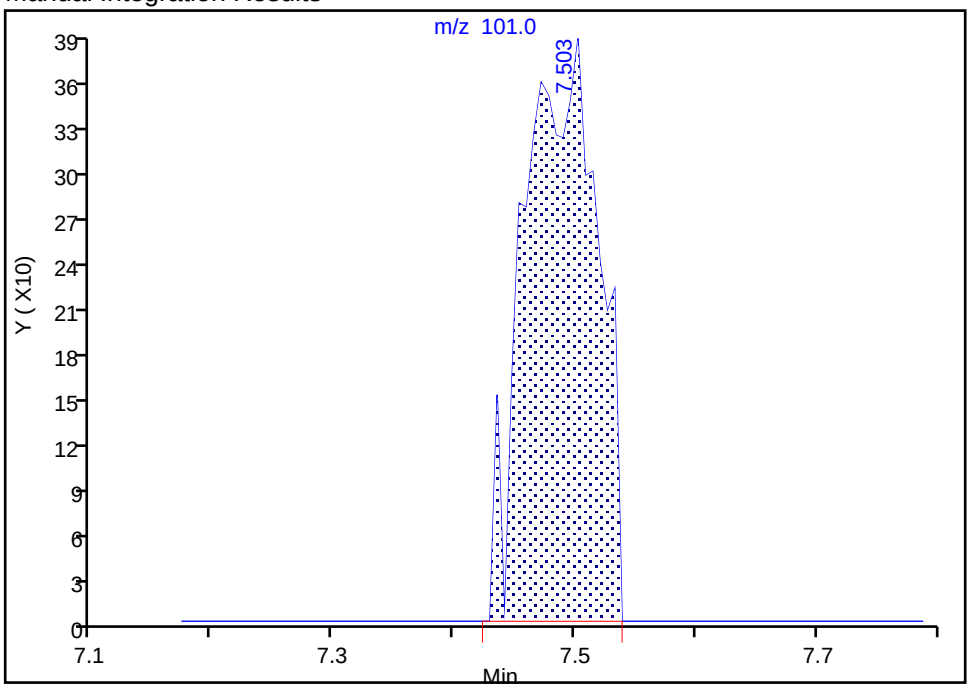
Processing Integration Results

RT: 7.47
Area: 869
Amount: 0.065786
Amount Units: ppb v/v



Manual Integration Results

RT: 7.50
Area: 1649
Amount: 0.124835
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 12:27:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

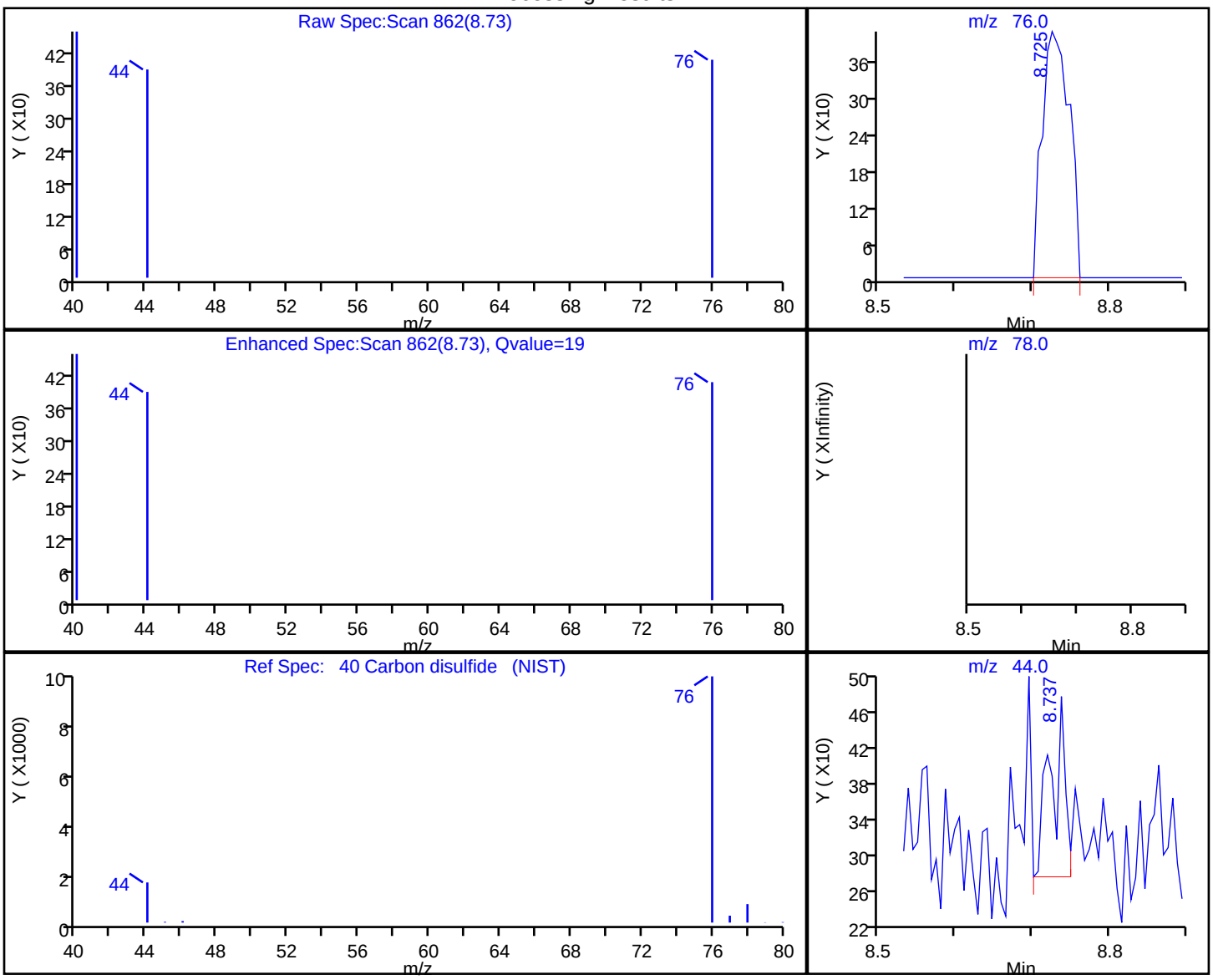
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D				
Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1		
Client ID:	774VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.73	76.00	989	0.072364
8.71	78.00	0	
8.74	44.00	262	

Reviewer: phanthasena, 05-Apr-2018 12:28:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

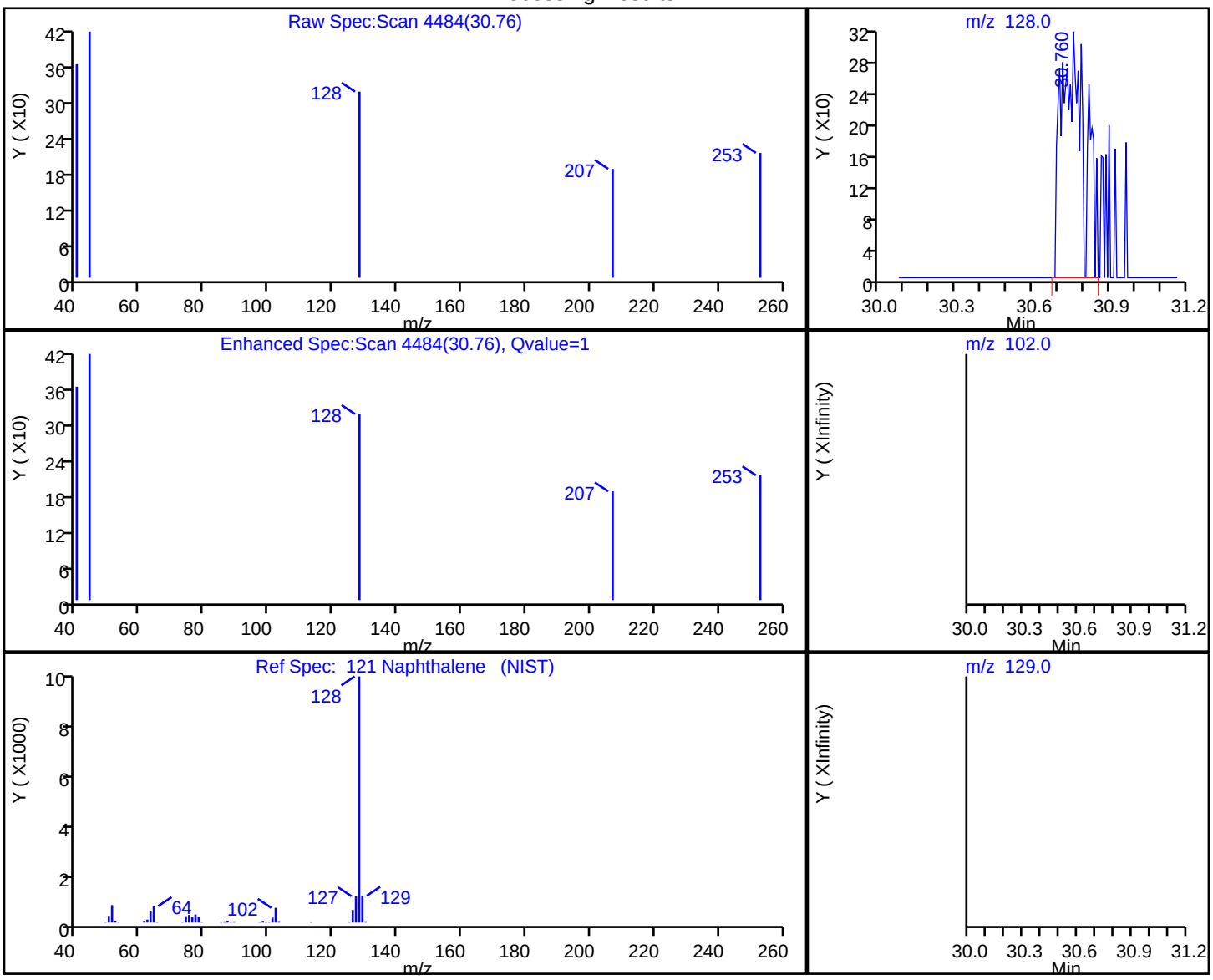
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040412.D				
Injection Date:	04-Apr-2018 19:39:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-1	Lab Sample ID:	320-37345-1		
Client ID:	774VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.76	128.00	1944	0.039817
30.62	102.00	0	
30.62	129.00	0	

Reviewer: phanthasena, 05-Apr-2018 12:28:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774VMP-2_0318 Lab Sample ID: 320-37345-2

Matrix: Air Lab File ID: MS7040413.D

Analysis Method: TO-15 Date Collected: 03/21/2018 15:55

Sample wt/vol: 396(mL) Date Analyzed: 04/04/2018 20:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	21		12	0.95	0.42
71-43-2	Benzene	0.55	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	1.0	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774VMP-2_0318 | Lab Sample ID: 320-37345-2

Matrix: Air | Lab File ID: MS7040413.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 15:55

Sample wt/vol: 396(mL) | Date Analyzed: 04/04/2018 20:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.8	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.40	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.58	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.48	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	1.1	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	0.66	J M	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	9.1		4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D
Lims ID: 320-37345-A-2
Client ID: 774VMP-2_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 20:36:30 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-2
Misc. Info.: 396 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:29:35 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:29:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.235	12.235	0.000	92	29527	4.00	
* 2 1,4-Difluorobenzene	114	14.395	14.389	0.006	96	131234	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.075	21.069	0.006	91	133616	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.440	13.434	0.006	97	53868	4.35	
$ 5 Toluene-d8 (Surr)	100	17.802	17.790	0.012	97	89579	3.92	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.618	0.000	86	90731	3.66	
13 Dichlorodifluoromethane	85	3.913	3.915	0.006	96	4422	0.3715	
16 Chloromethane	50	4.369	4.357	0.012	97	3226	0.5056	
26 Trichlorofluoromethane	101	6.395	6.408	0.000	97	26537	1.63	
32 Acetone	43	7.320	7.308	0.012	100	125195	9.03	
33 1,1,2-Trichloro-1,2,2-trif	101	7.478	7.478	0.000	59	1200	0.0896	M
39 Methylene Chloride	49	8.676	8.677	0.012	92	1886	0.1666	
48 2-Butanone (MEK)	72	11.201	11.199	0.024	92	1599	0.4237	
55 1,1,1-Trichloroethane	97	12.917	12.917	0.012	66	888	0.0539	
59 Carbon tetrachloride	117	13.489	13.494	0.000	80	1360	0.0733	
63 Benzene	78	13.756	13.786	-0.006	87	4265	0.1733	
65 Trichloroethene	130	15.180	15.180	0.024	47	1445	0.1223	M
75 Toluene	91	17.972	17.997	0.006	95	10005	0.2889	
86 Ethylbenzene	91	21.330	21.349	0.006	93	4319	0.0924	
87 m-Xylene & p-Xylene	91	21.519	21.532	0.012	93	3970	0.1098	
88 o-Xylene	91	22.413	22.433	0.006	89	1417	0.0394	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

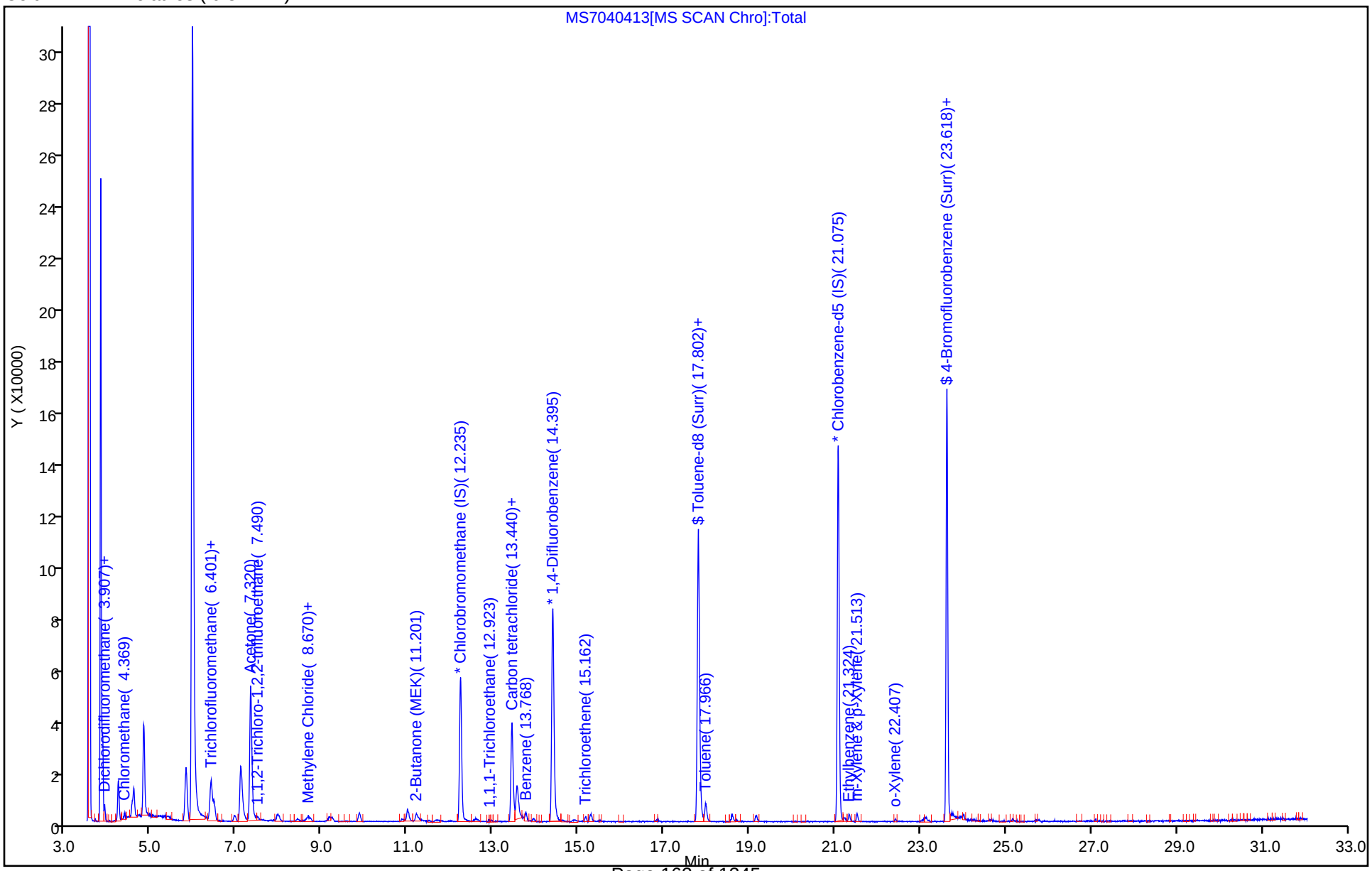
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2	Worklist Smp#:	13
Client ID:	774VMP-2_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D				
Lims ID:	320-37345-A-2				
Client ID:	774VMP-2_0318				
Sample Type:	Client				
Inject. Date:	04-Apr-2018 20:36:30	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-37345-A-2				
Misc. Info.:	396 mL				
Operator ID:	LHS	Instrument ID:	ATMS7		
Method:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	05-Apr-2018 12:29:35	Calib Date:	15-Mar-2018 21:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK016				

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:29:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.35	108.81
$ 5 Toluene-d8 (Surr)	4.00	3.92	97.97
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.66	91.39

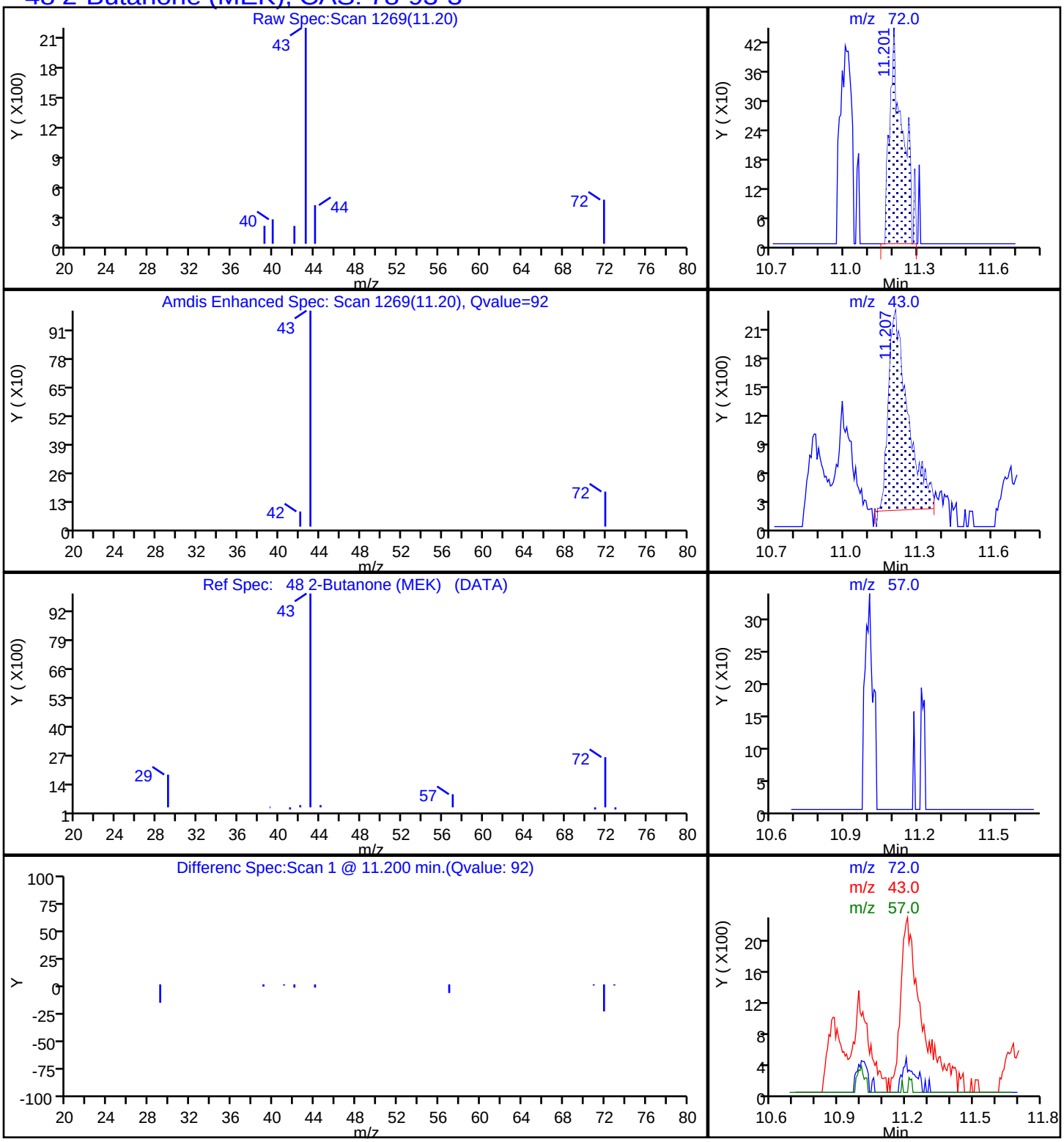
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



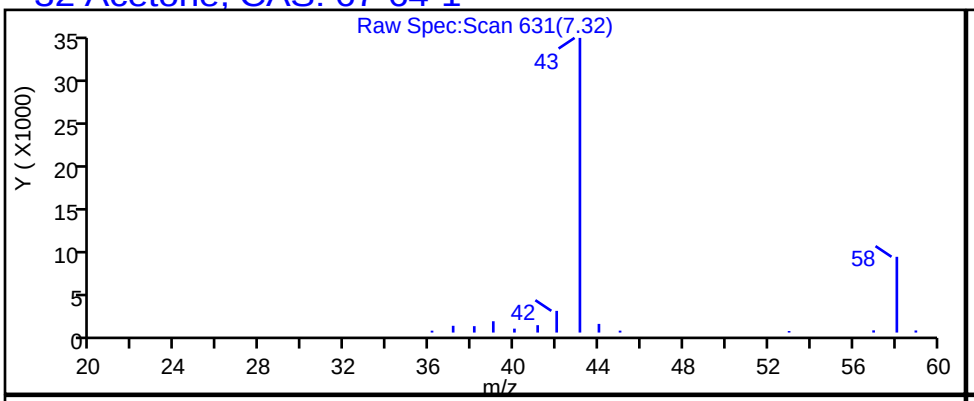
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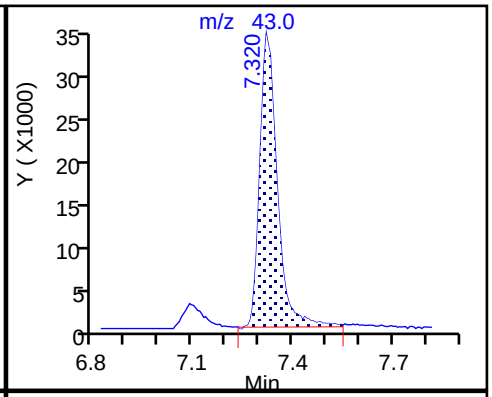
TestAmerica Sacramento

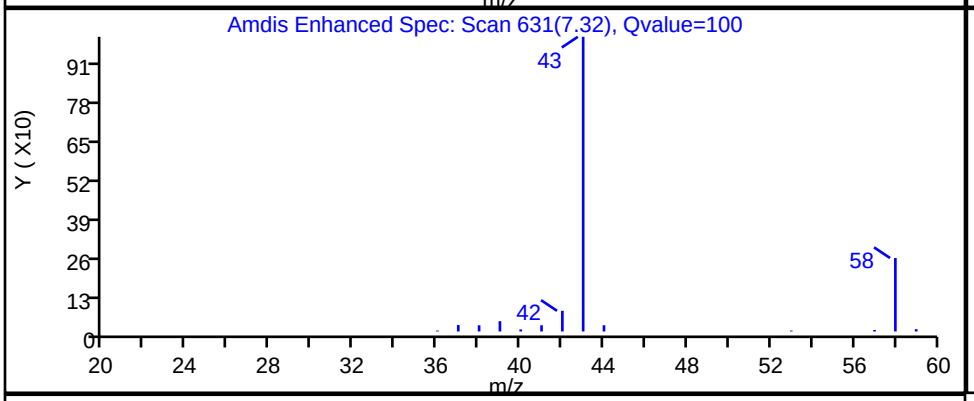
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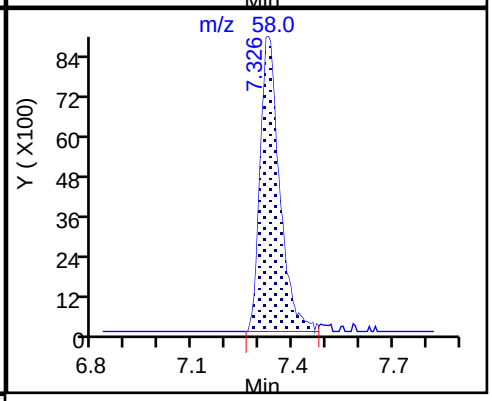
Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

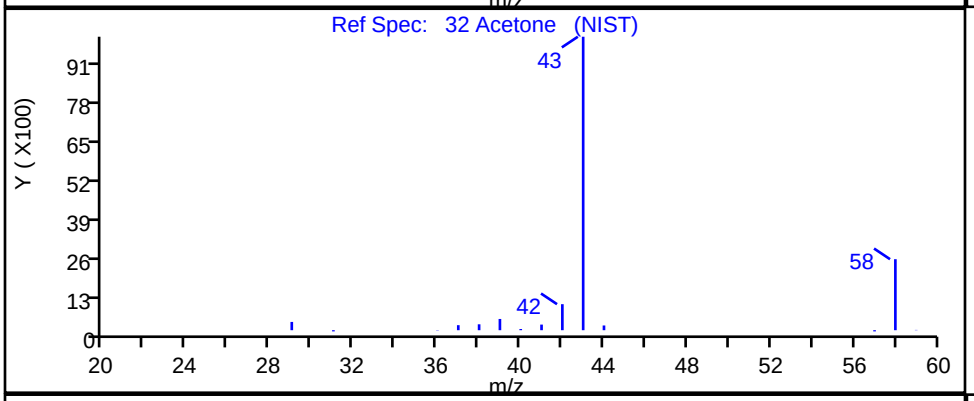
32 Acetone, CAS: 67-64-1

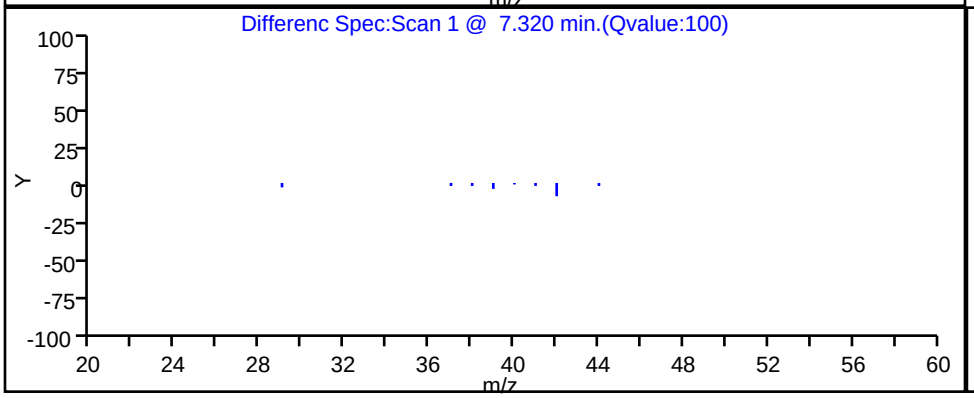


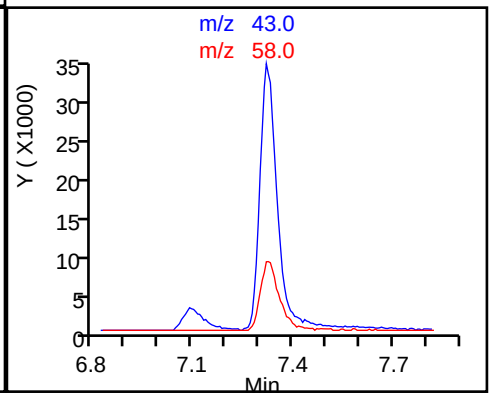












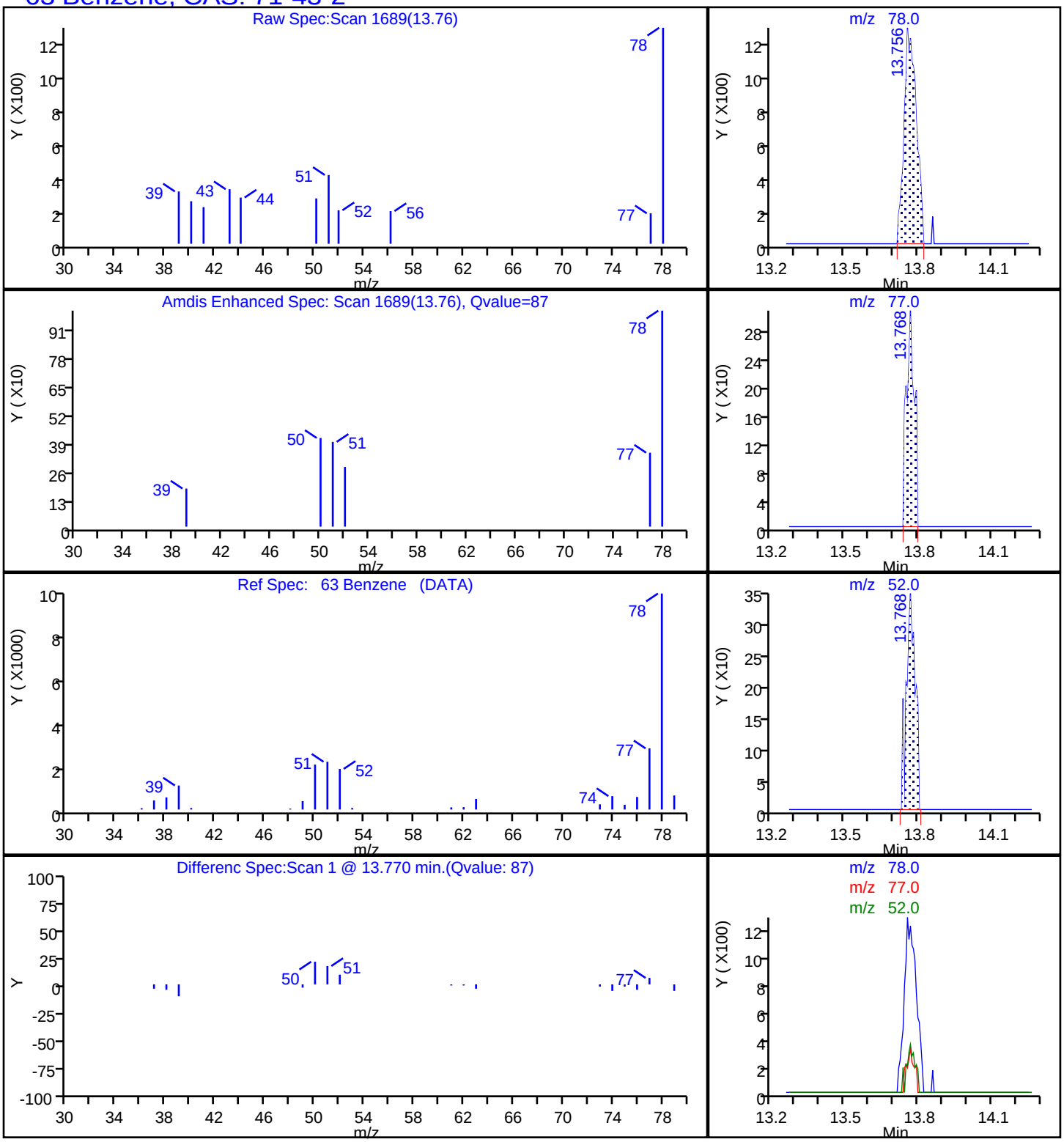
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



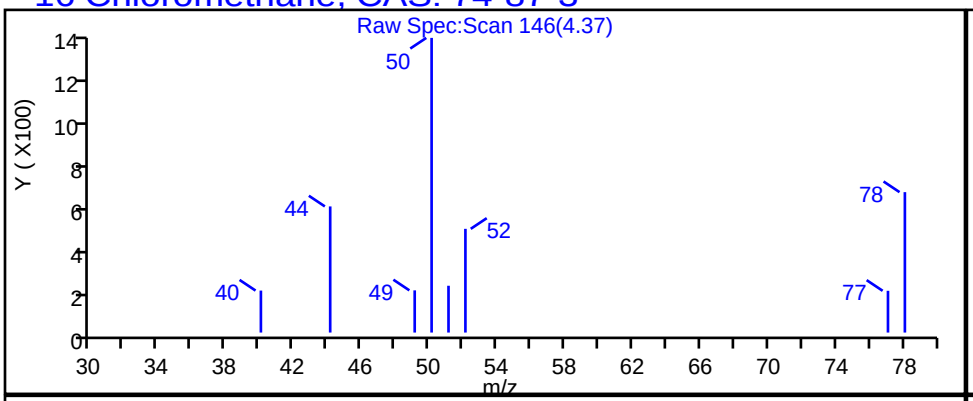
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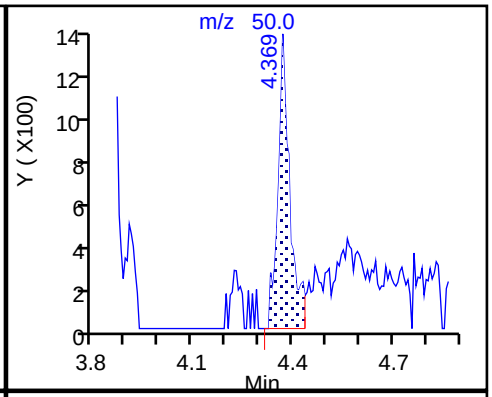
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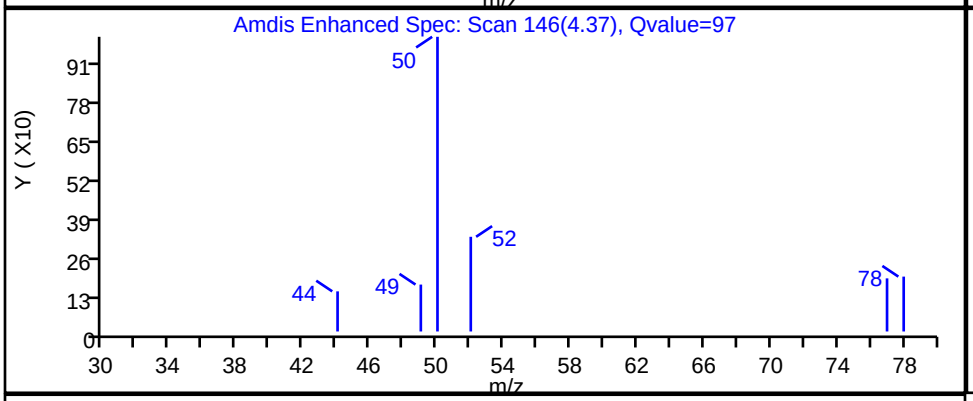
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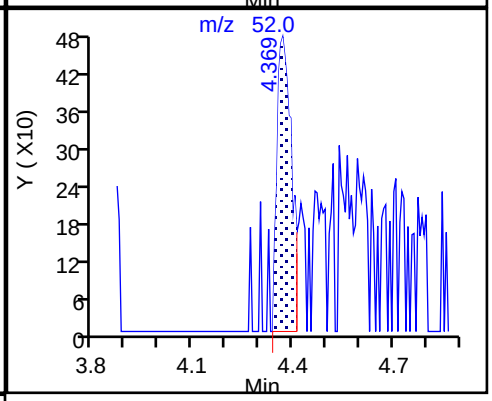
Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

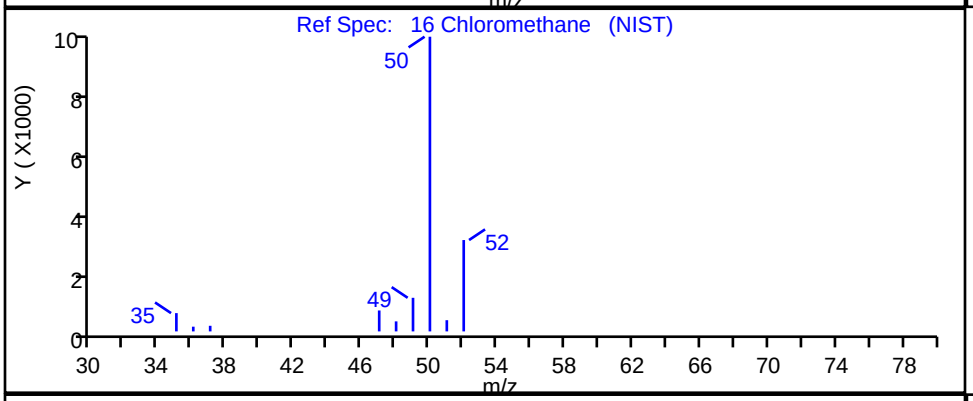
16 Chloromethane, CAS: 74-87-3

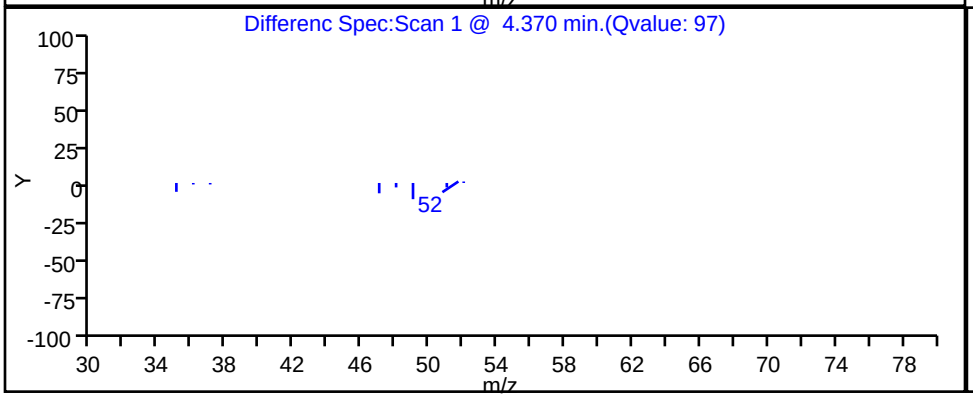


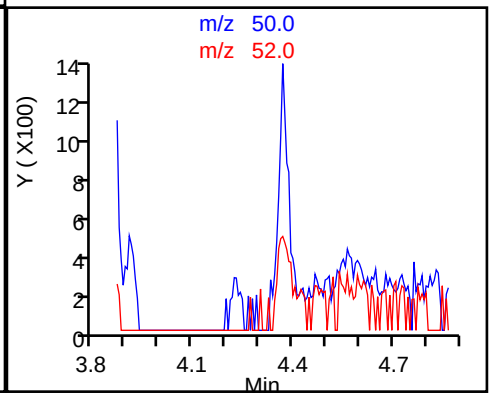












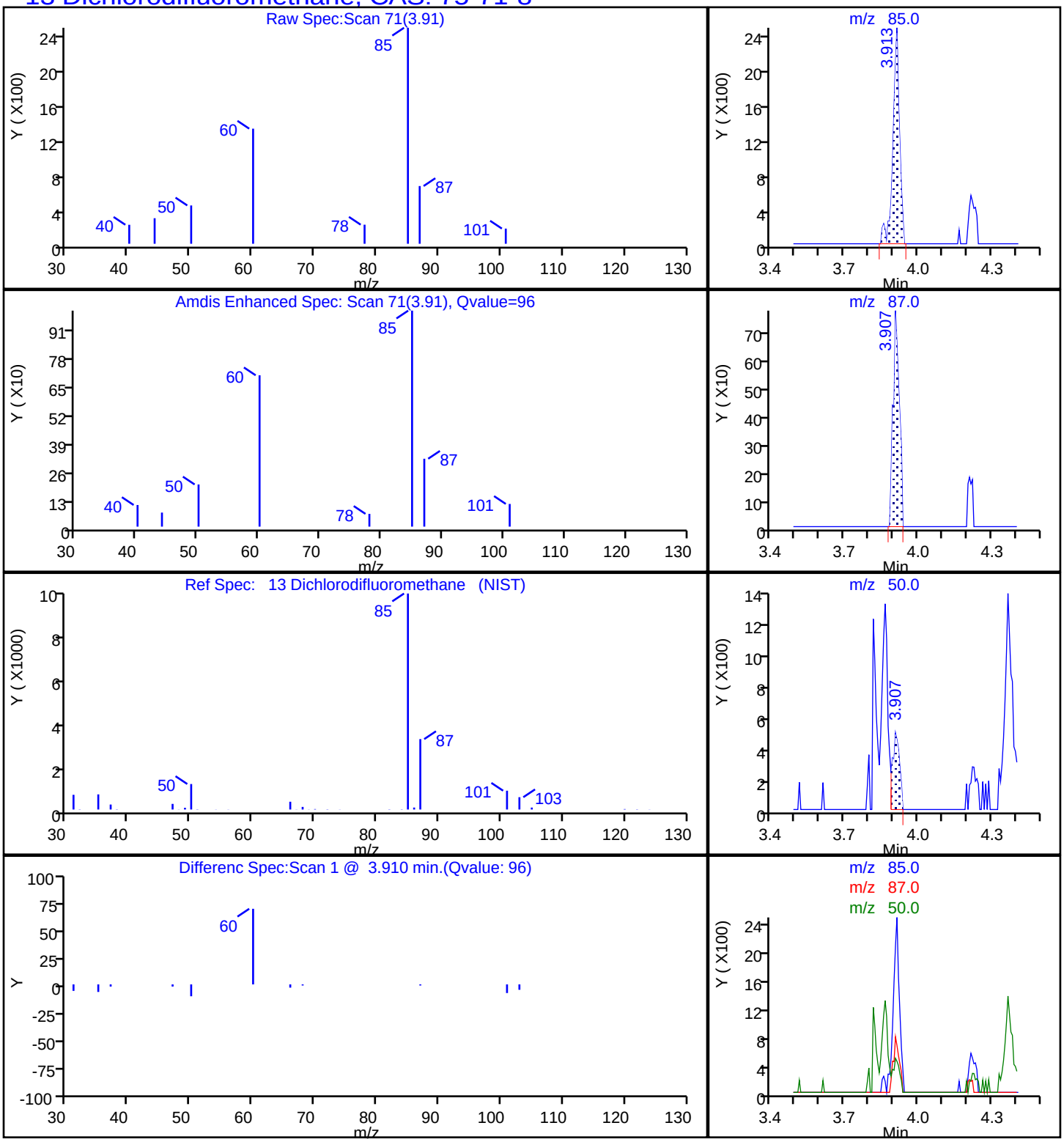
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



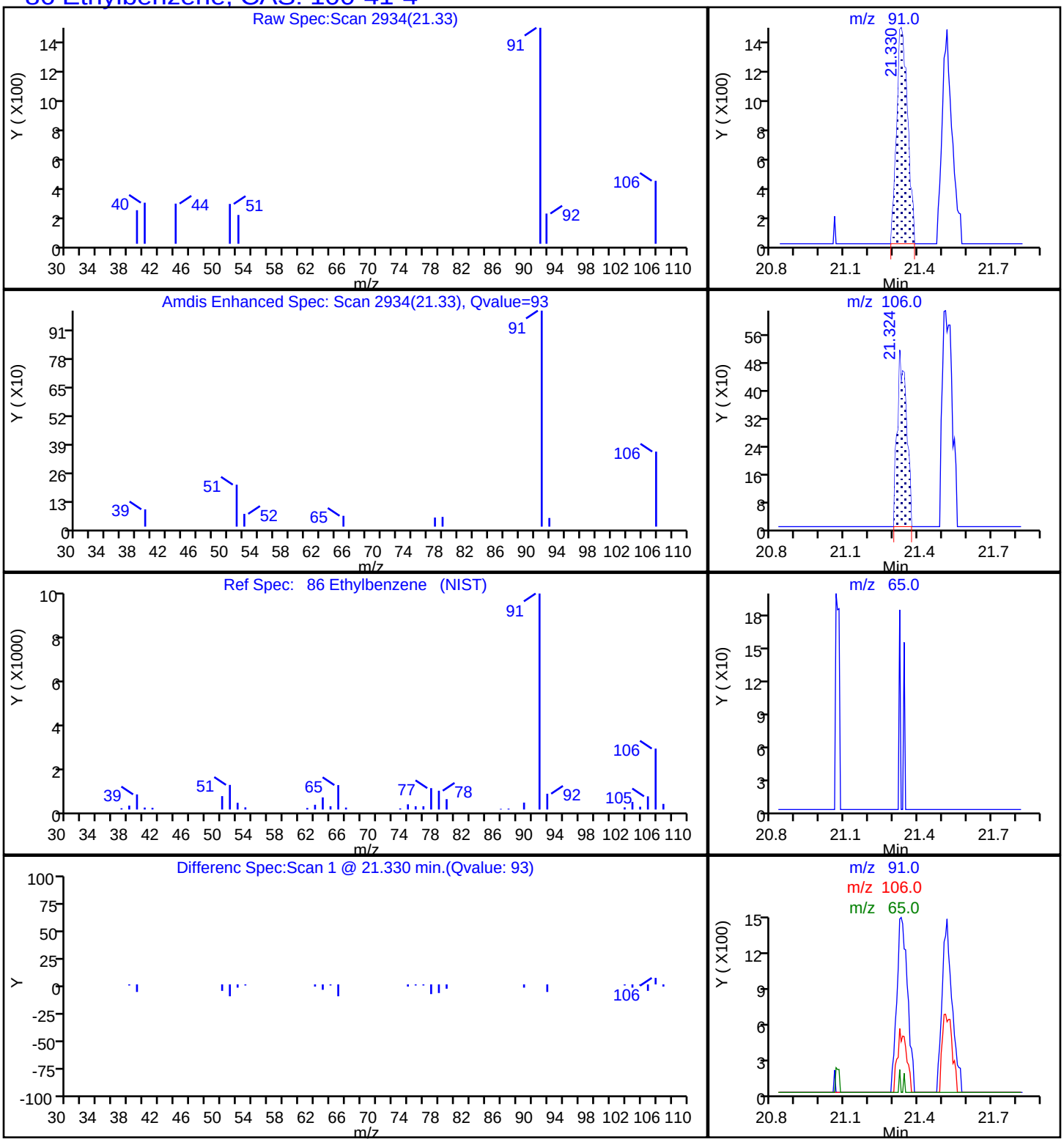
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



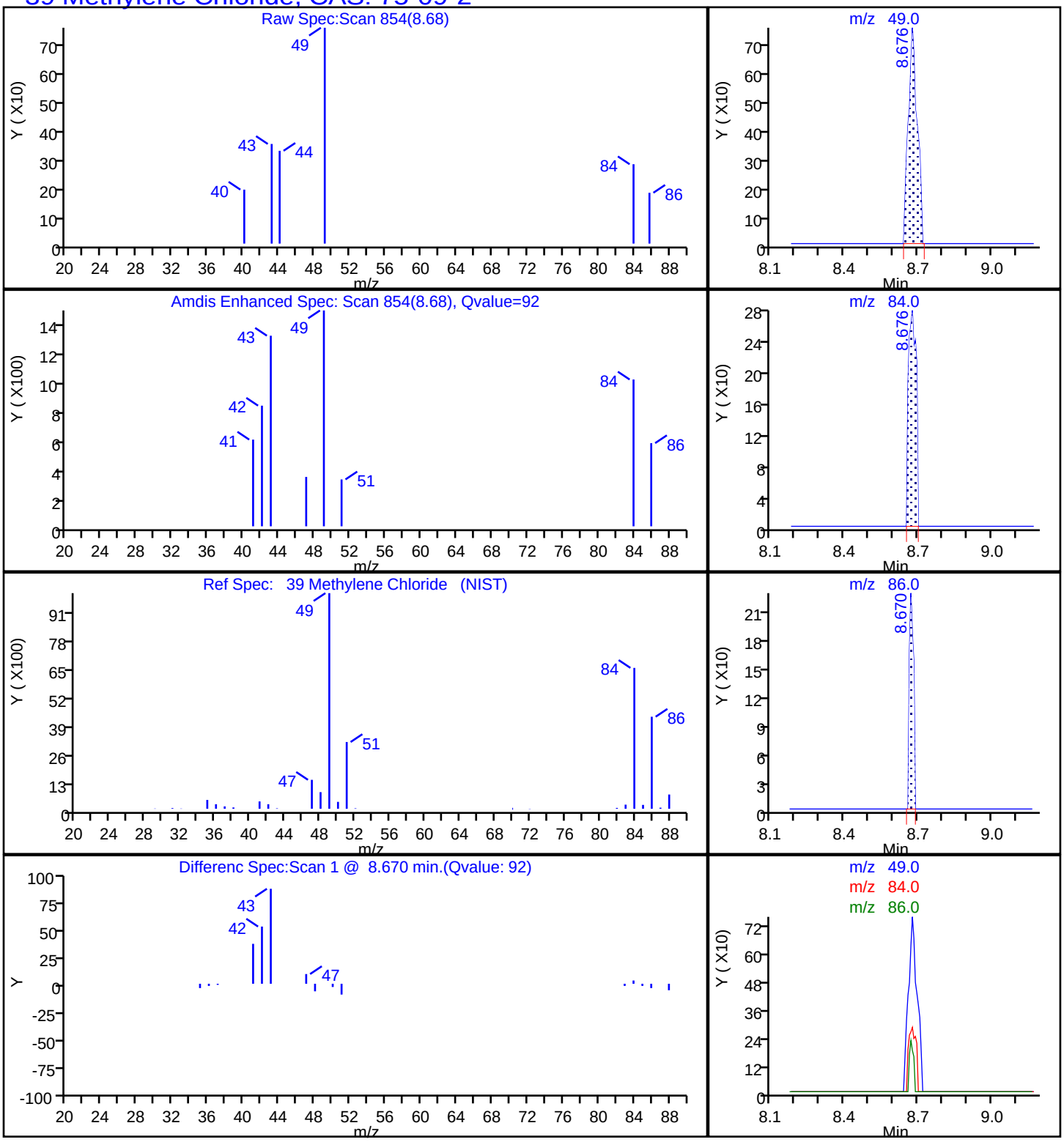
Report Date: 05-Apr-2018 12:29:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



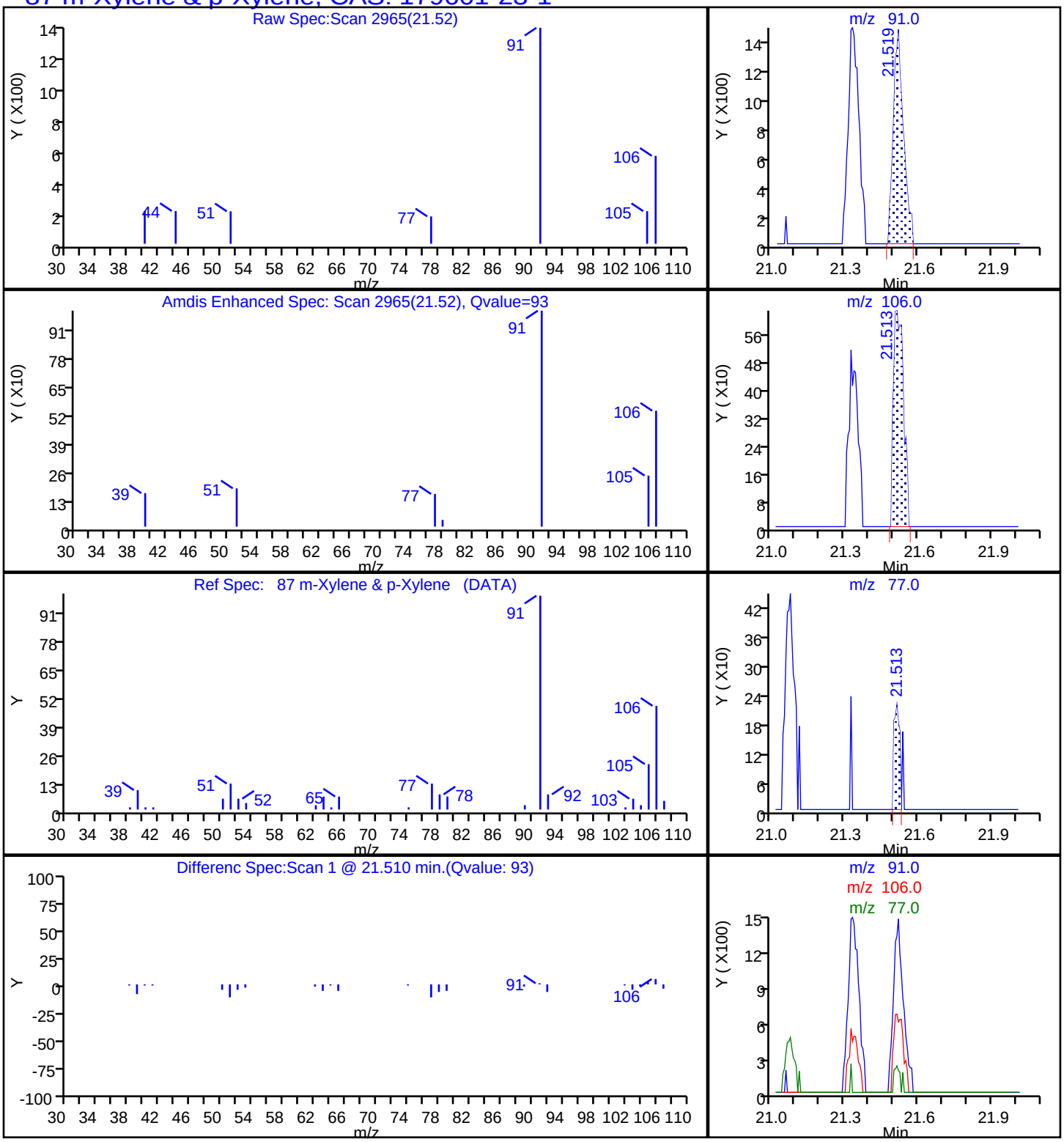
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TestAmerica Sacramento

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Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



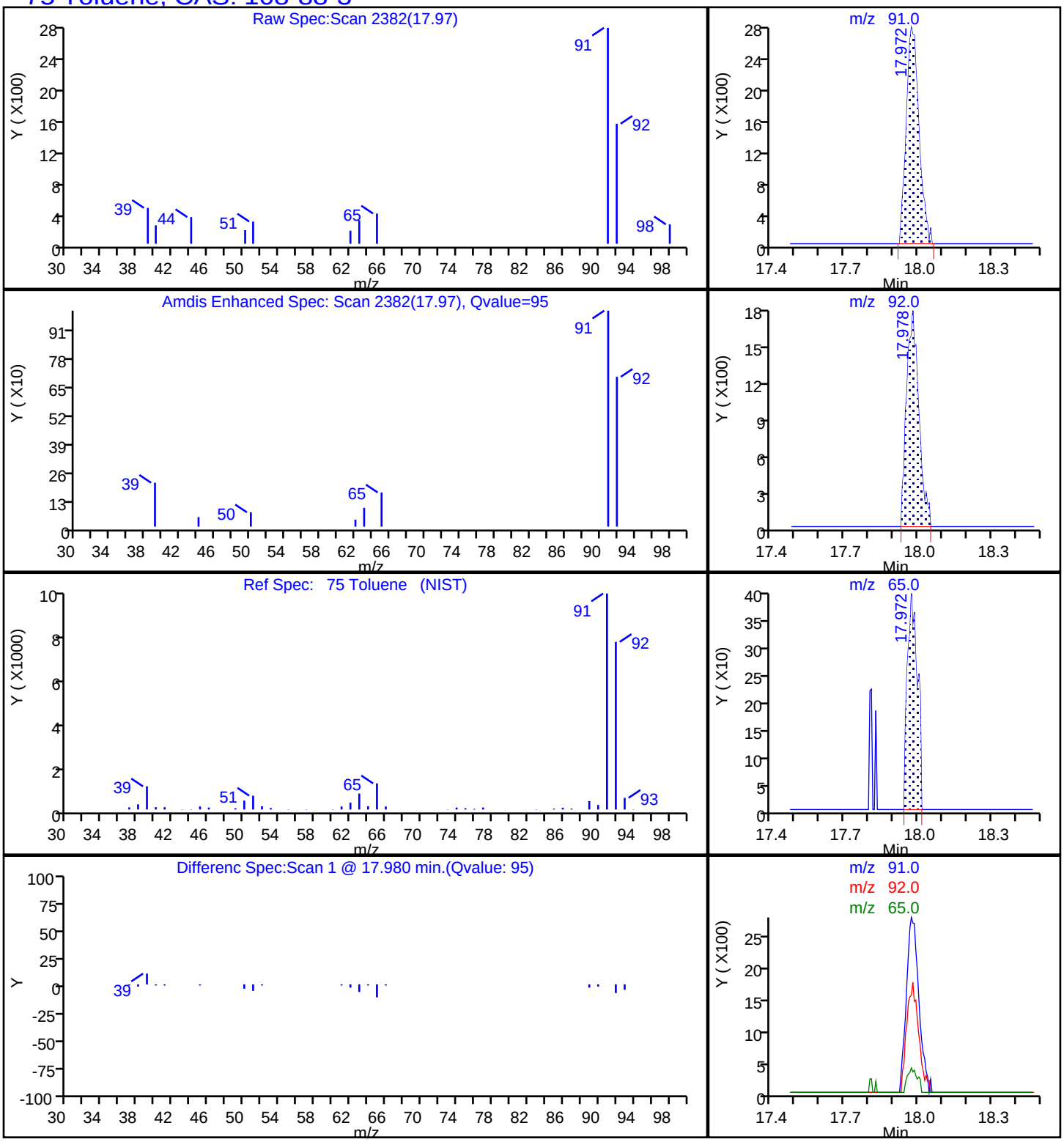
Report Date: 05-Apr-2018 12:29:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



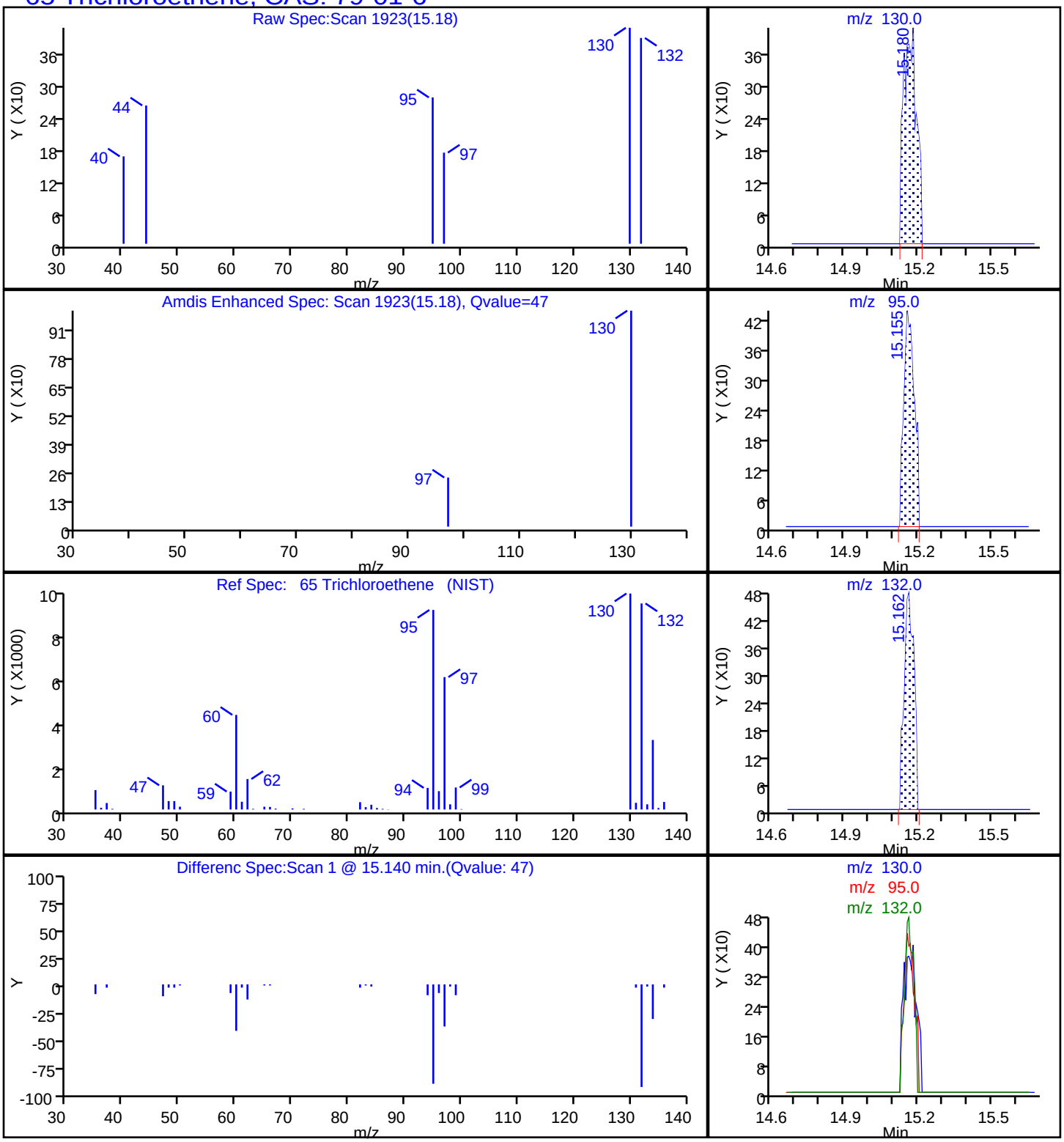
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TestAmerica Sacramento

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Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



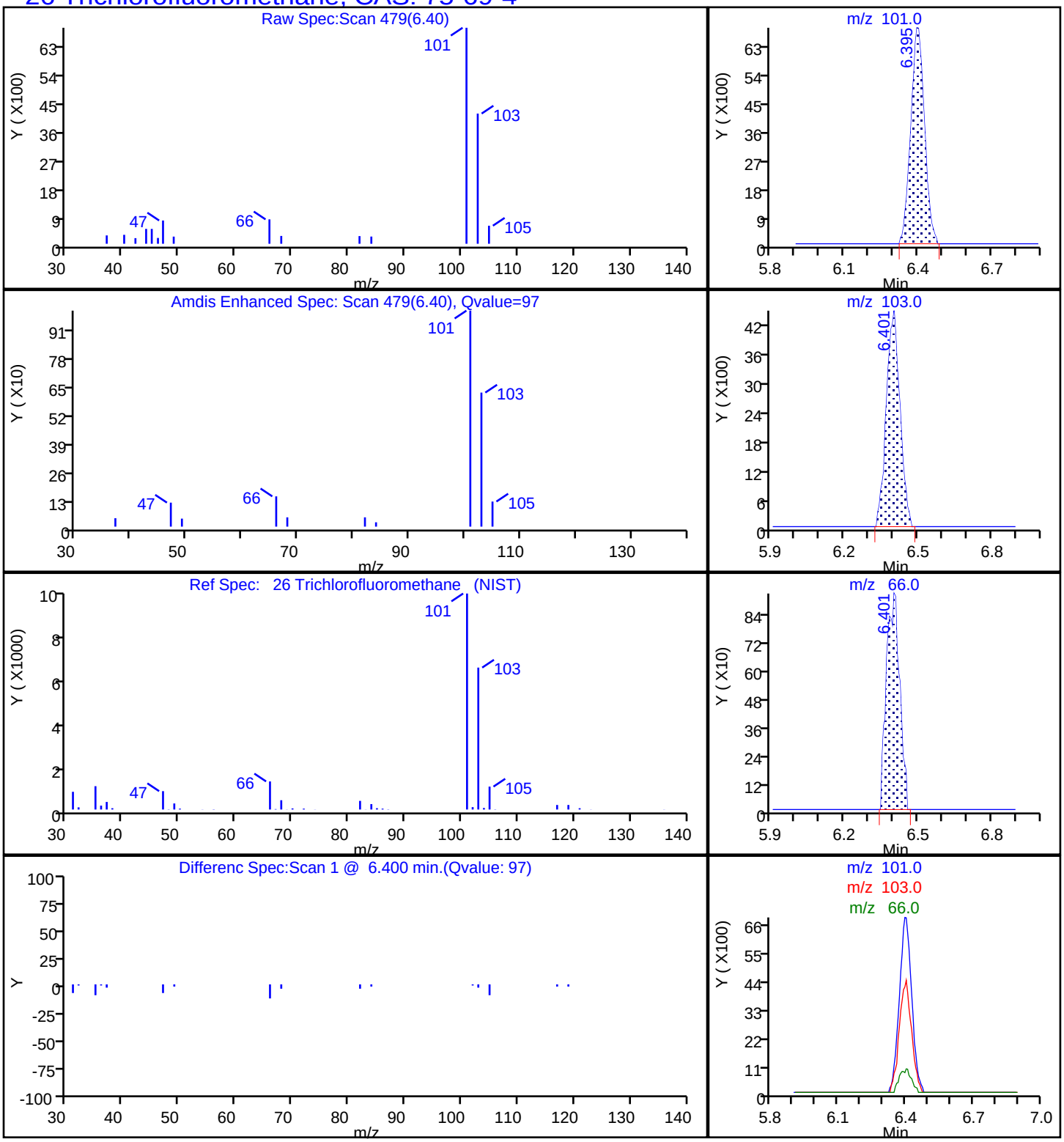
Report Date: 05-Apr-2018 12:29:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

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Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2
Client ID:	774VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

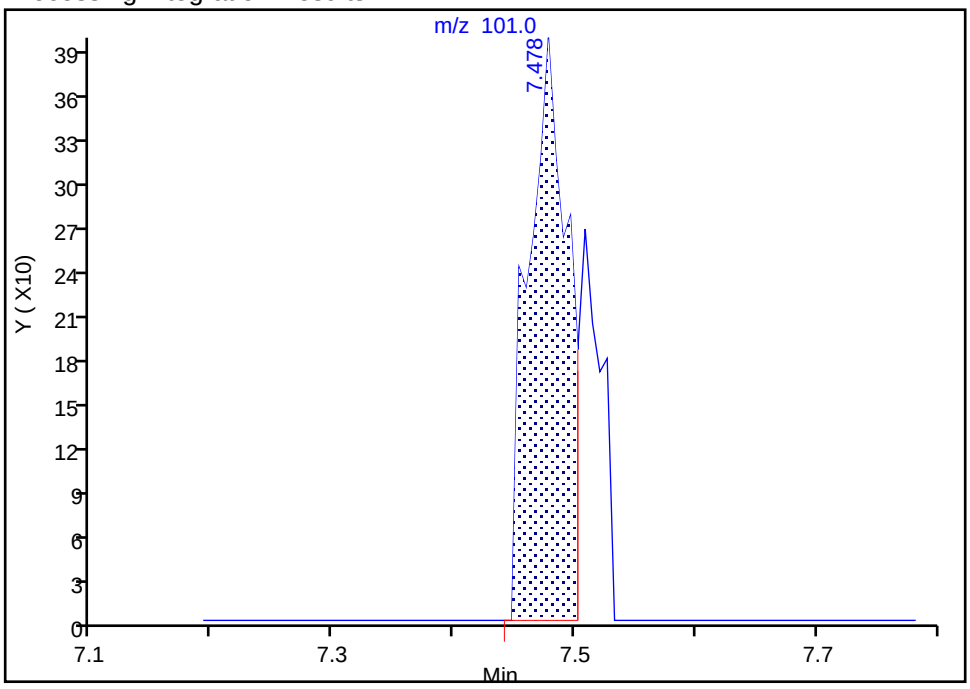
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Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2		
Client ID:	774VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

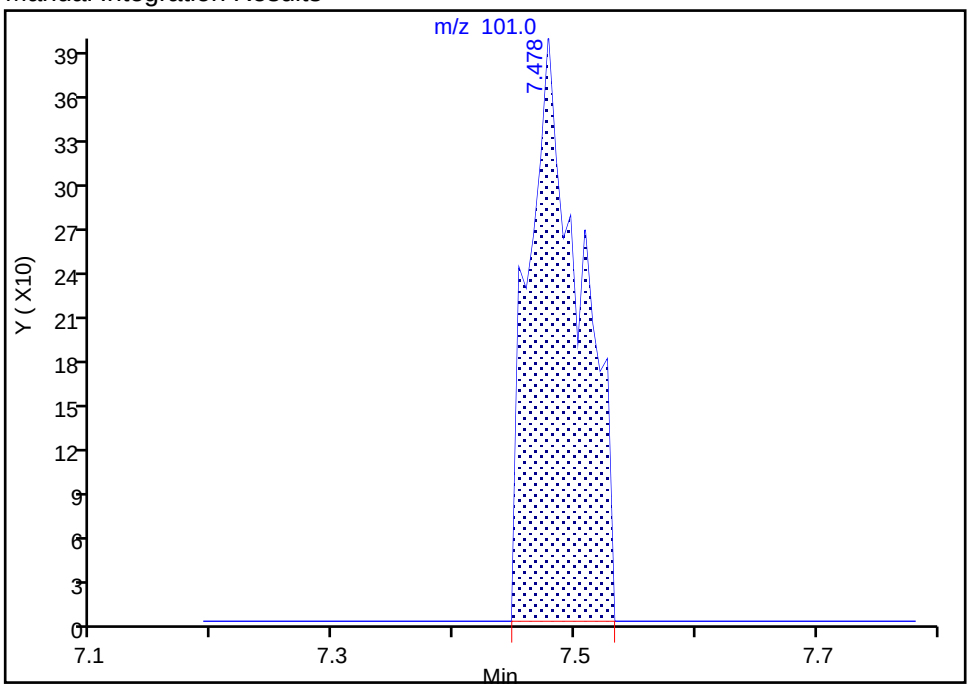
Processing Integration Results

RT: 7.48
Area: 902
Amount: 0.067343
Amount Units: ppb v/v



Manual Integration Results

RT: 7.48
Area: 1200
Amount: 0.089592
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 12:28:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

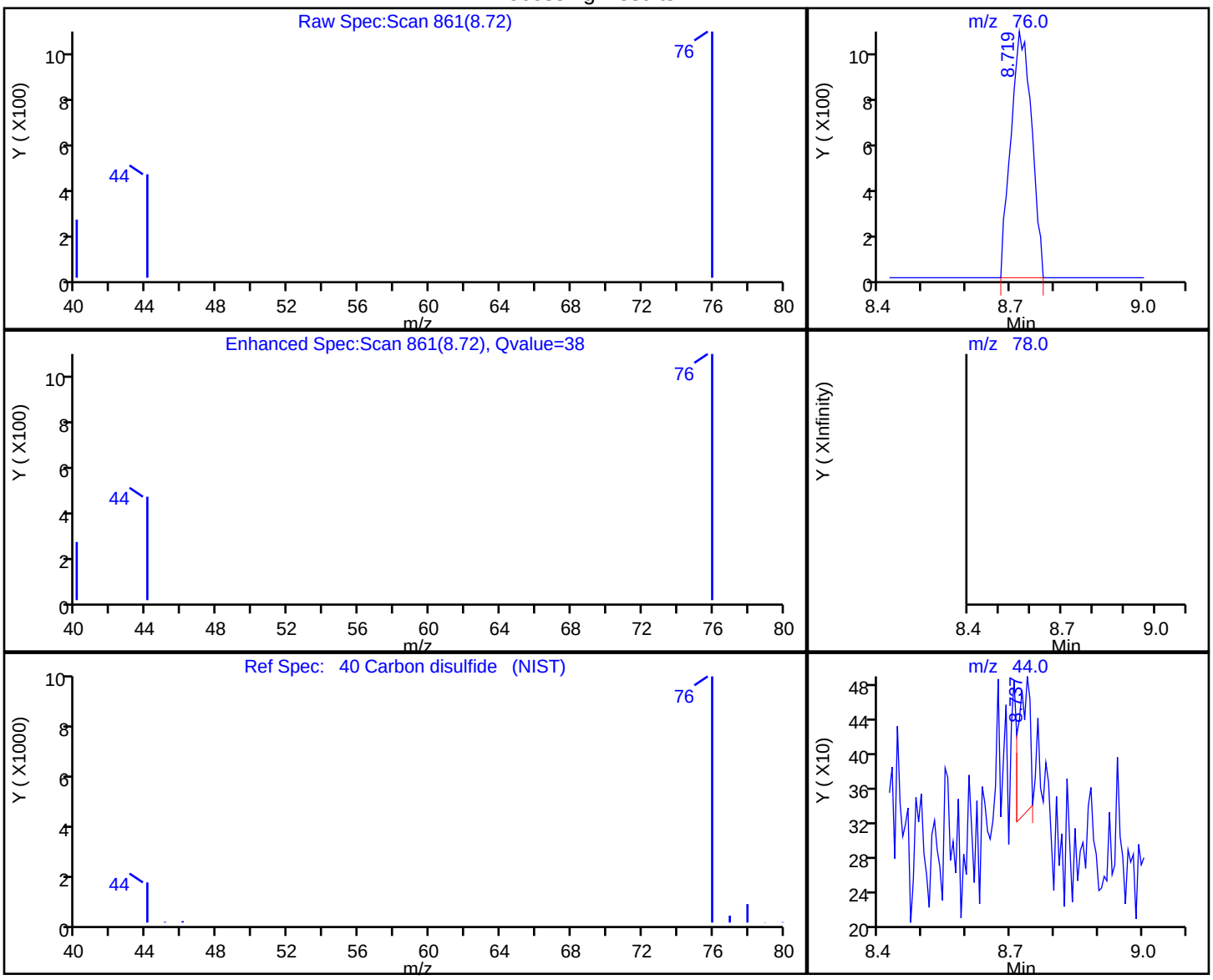
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040413.D				
Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2		
Client ID:	774VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.72	76.00	3411	0.246139
8.71	78.00	0	
8.74	44.00	267	

Reviewer: phanthasena, 05-Apr-2018 12:29:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

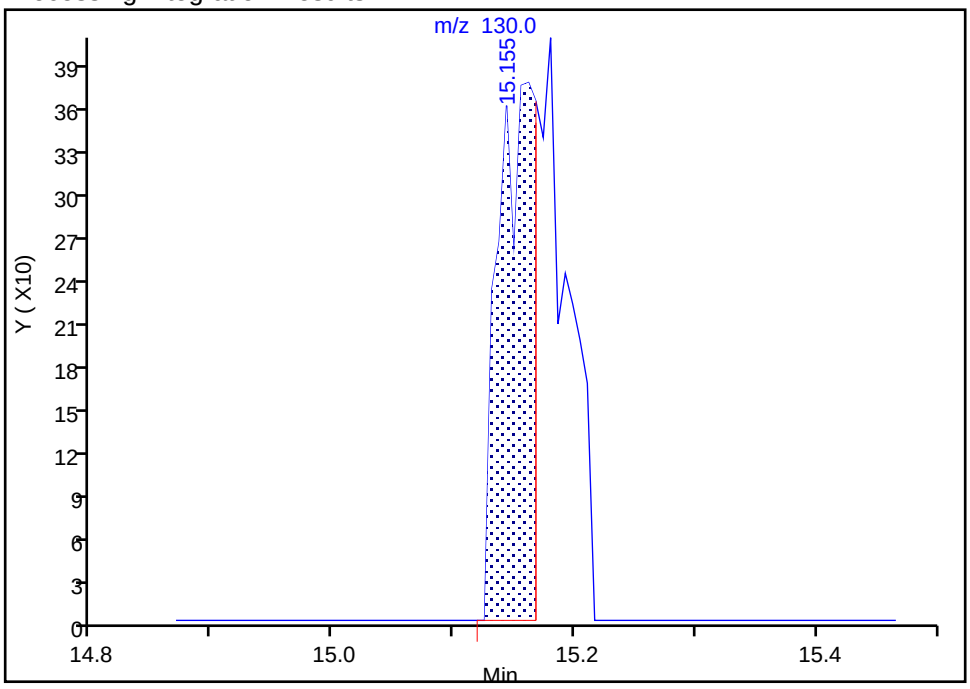
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Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-2	Lab Sample ID:	320-37345-2		
Client ID:	774VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

65 Trichloroethene, CAS: 79-01-6

Signal: 1

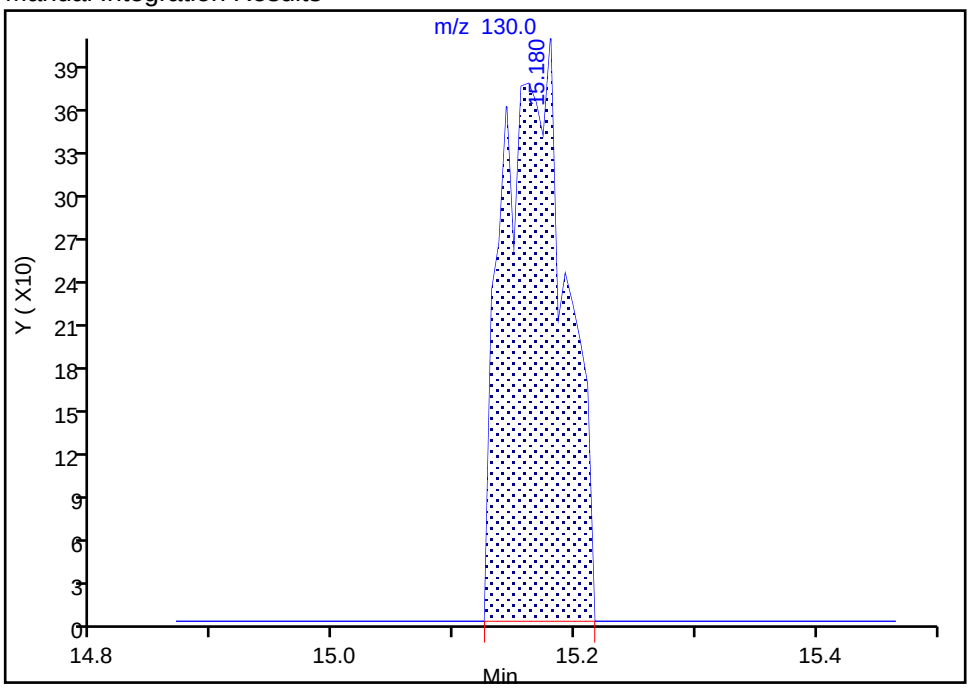
Processing Integration Results

RT: 15.16
Area: 803
Amount: 0.067966
Amount Units: ppb v/v



Manual Integration Results

RT: 15.18
Area: 1445
Amount: 0.122304
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 12:29:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774VMP-3_0318 | Lab Sample ID: 320-37345-3

Matrix: Air | Lab File ID: MS7040414.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:00

Sample wt/vol: 388(mL) | Date Analyzed: 04/04/2018 21:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	U	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	7.9	J	12	0.95	0.42
71-43-2	Benzene	0.47	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	2.4		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774VMP-3_0318 | Lab Sample ID: 320-37345-3

Matrix: Air | Lab File ID: MS7040414.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:00

Sample wt/vol: 388(mL) | Date Analyzed: 04/04/2018 21:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.1	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.87	U	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U M	2.9	1.4	0.43
75-09-2	Methylene Chloride	23		1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.87	U M	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U M	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.42	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	46		4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D
Lims ID: 320-37345-A-3
Client ID: 774VMP-3_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 21:32:30 ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-3
Misc. Info.: 388 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:35:26 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:31:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.223	12.235	-0.012	92	26457	4.00	
* 2 1,4-Difluorobenzene	114	14.383	14.389	-0.006	96	112476	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.069	-0.006	91	100456	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.428	13.434	-0.006	95	48535	4.58	
$ 5 Toluene-d8 (Surr)	100	17.784	17.790	-0.006	97	70757	3.61	
$ 6 4-Bromofluorobenzene (Surr	95	23.612	23.618	-0.006	92	72038	3.86	
13 Dichlorodifluoromethane	85	3.889	3.915	-0.018	68	4584	0.4298	
16 Chloromethane	50	4.345	4.357	-0.012	99	6711	1.17	
26 Trichlorofluoromethane	101	6.377	6.408	-0.018	97	120731	8.27	
32 Acetone	43	7.314	7.308	0.006	99	41242	3.32	
33 1,1,2-Trichloro-1,2,2-trif	101	7.484	7.484	0.006	1	990	0.0825	M
39 Methylene Chloride	49	8.658	8.677	-0.006	91	67011	6.61	
59 Carbon tetrachloride	117	13.483	13.494	-0.006	56	2064	0.1299	
63 Benzene	78	13.763	13.786	0.001	88	3120	0.1479	
75 Toluene	91	17.960	17.997	-0.006	92	3322	0.1119	
87 m-Xylene & p-Xylene	91	21.507	21.507	0.000	1	1617	0.0595	a

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

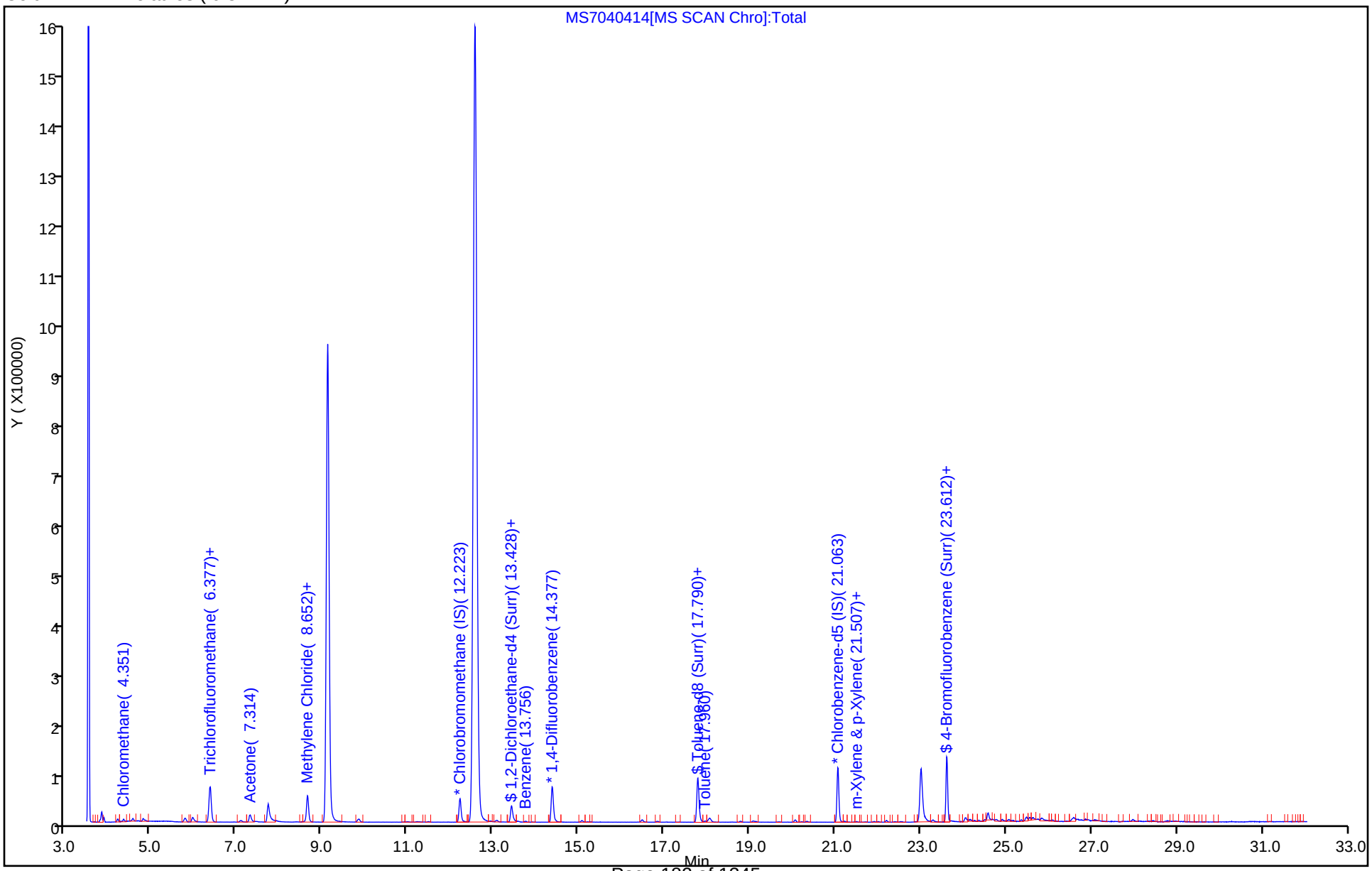
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3	Worklist Smp#:	14
Client ID:	774VMP-3_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D
Lims ID: 320-37345-A-3
Client ID: 774VMP-3_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 21:32:30 ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-3
Misc. Info.: 388 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:35:26 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:31:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.58	114.38
$ 5 Toluene-d8 (Surr)	4.00	3.61	90.29
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.86	96.51

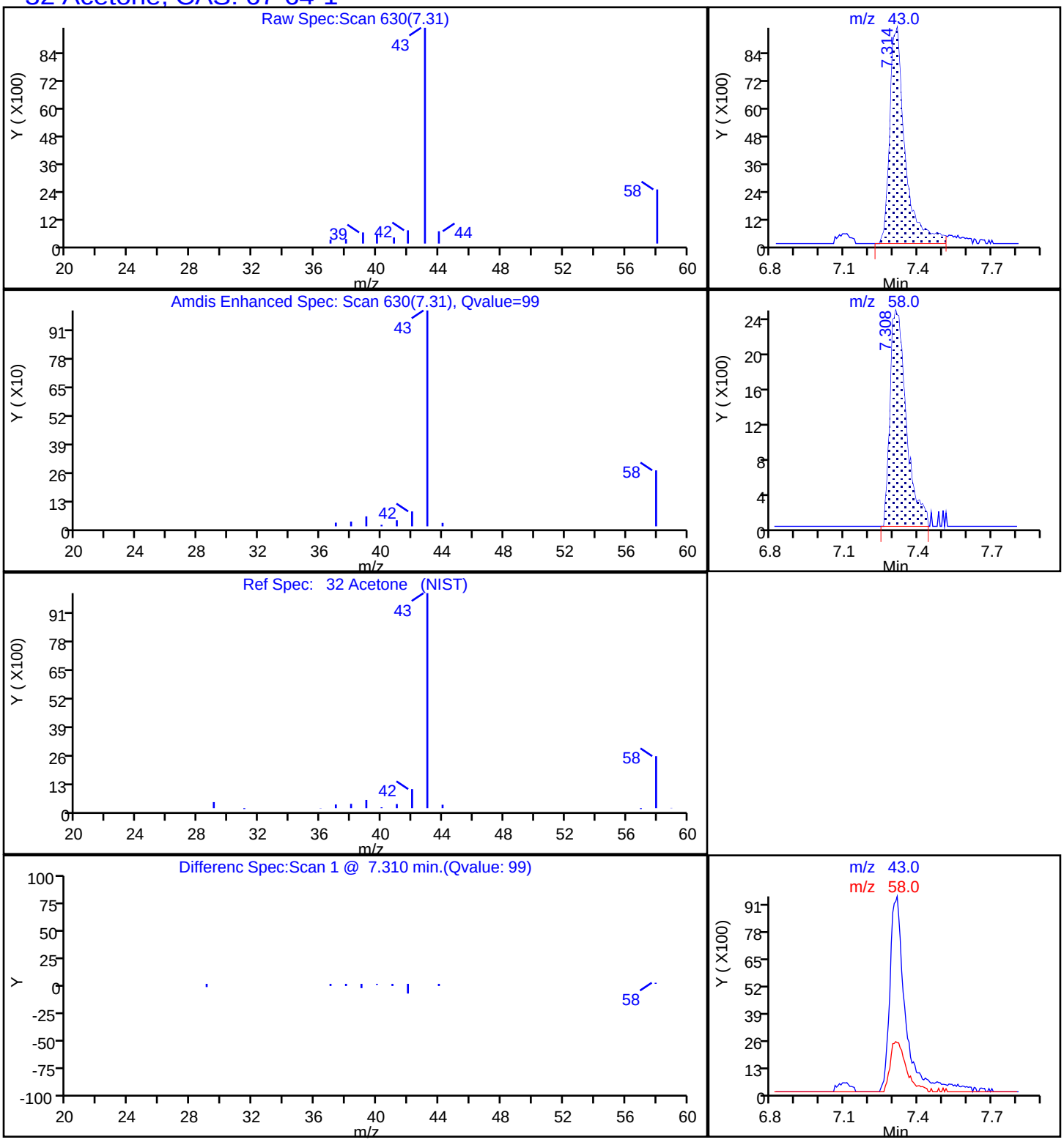
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3
Client ID:	774VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

32 Acetone, CAS: 67-64-1



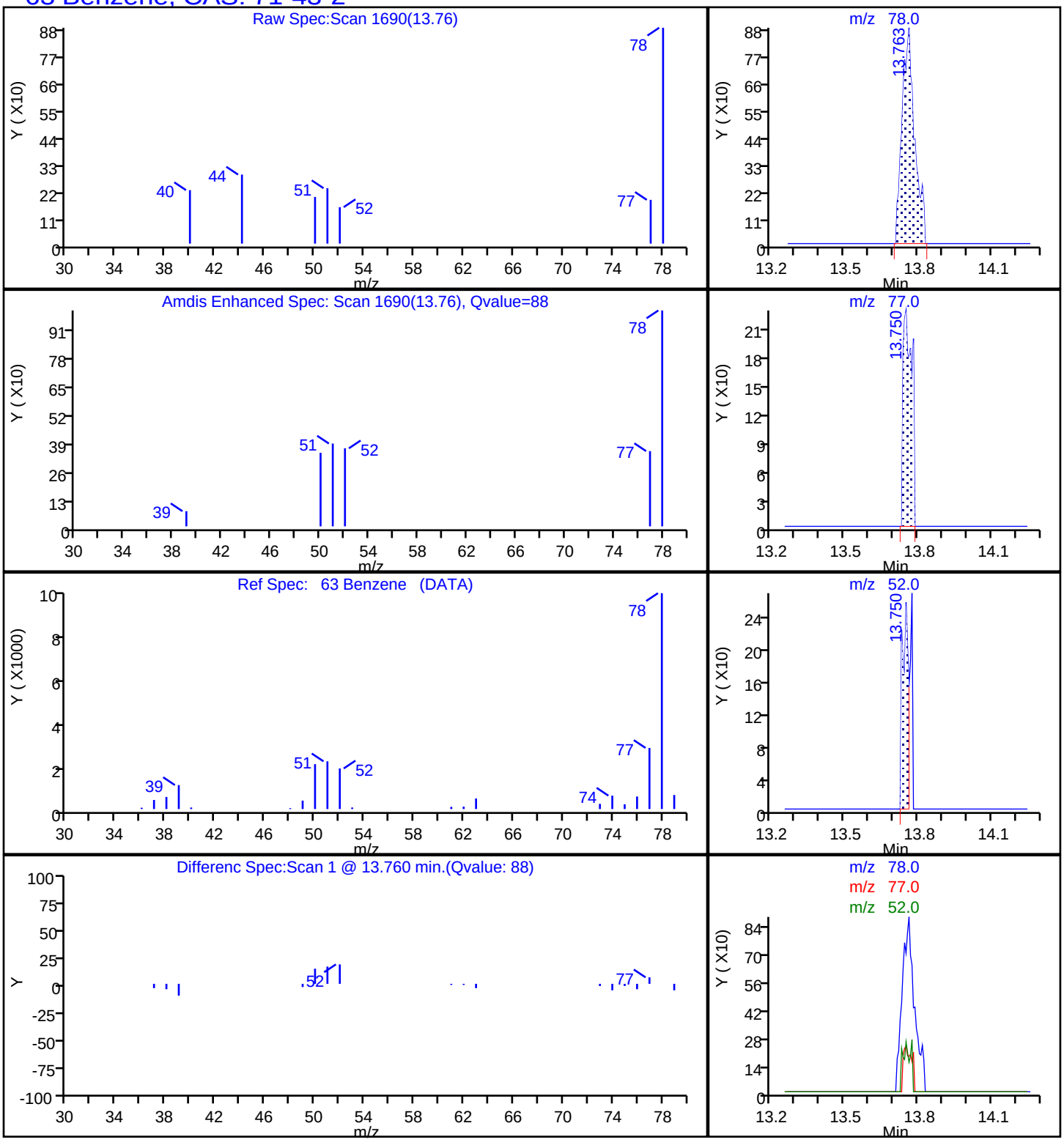
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3
Client ID:	774VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



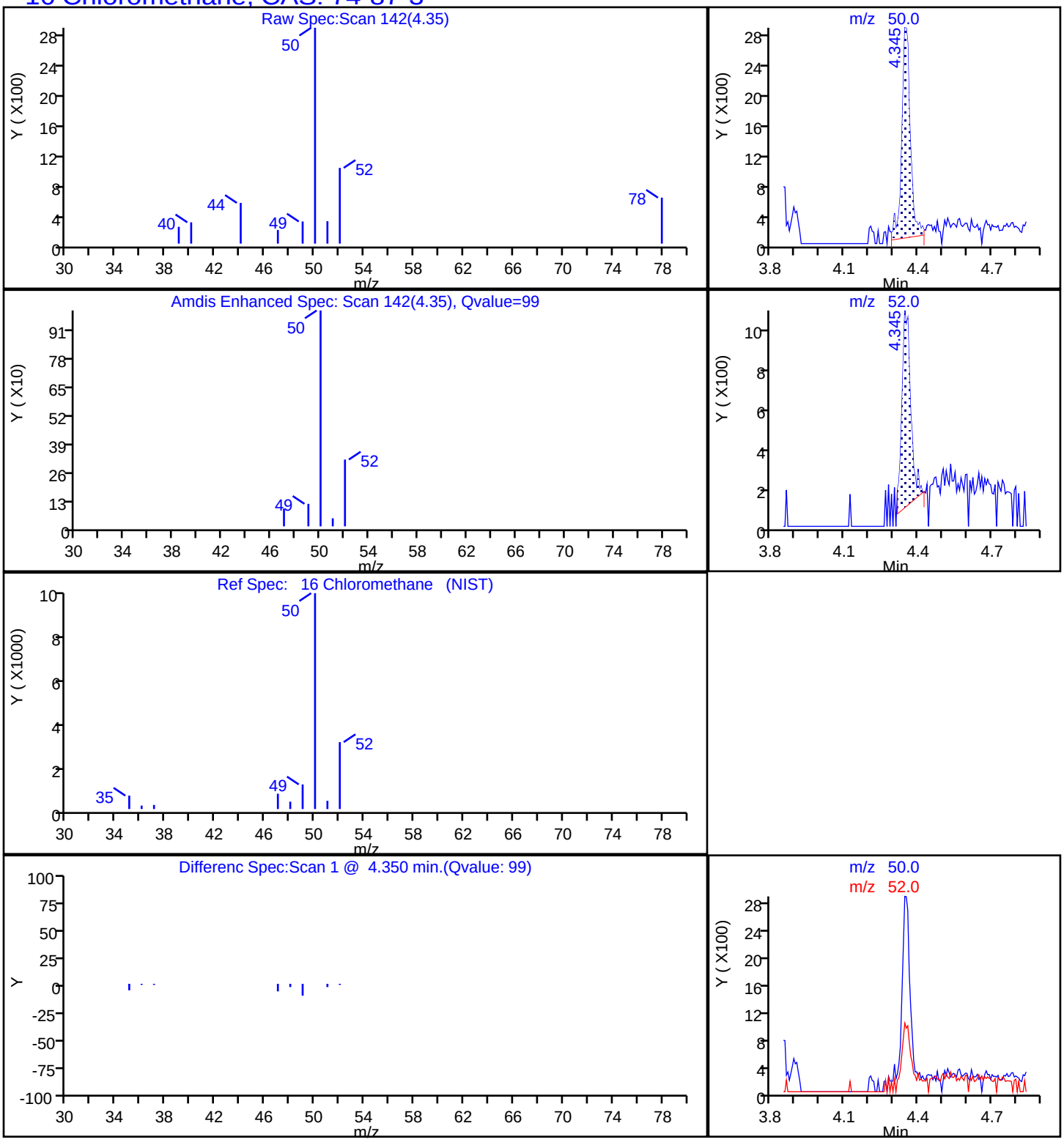
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3
Client ID:	774VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

16 Chloromethane, CAS: 74-87-3



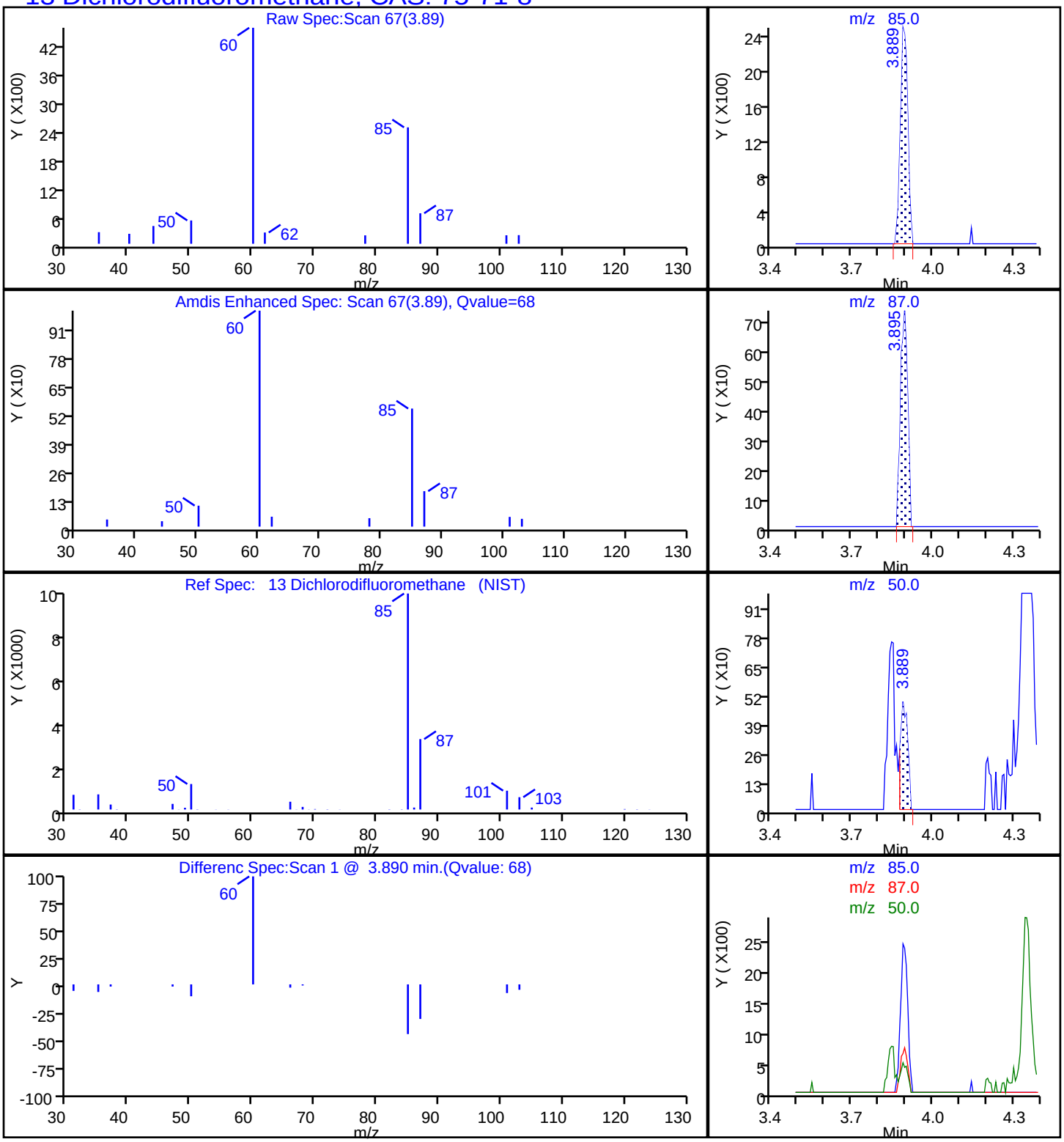
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3		
Client ID:	774VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8



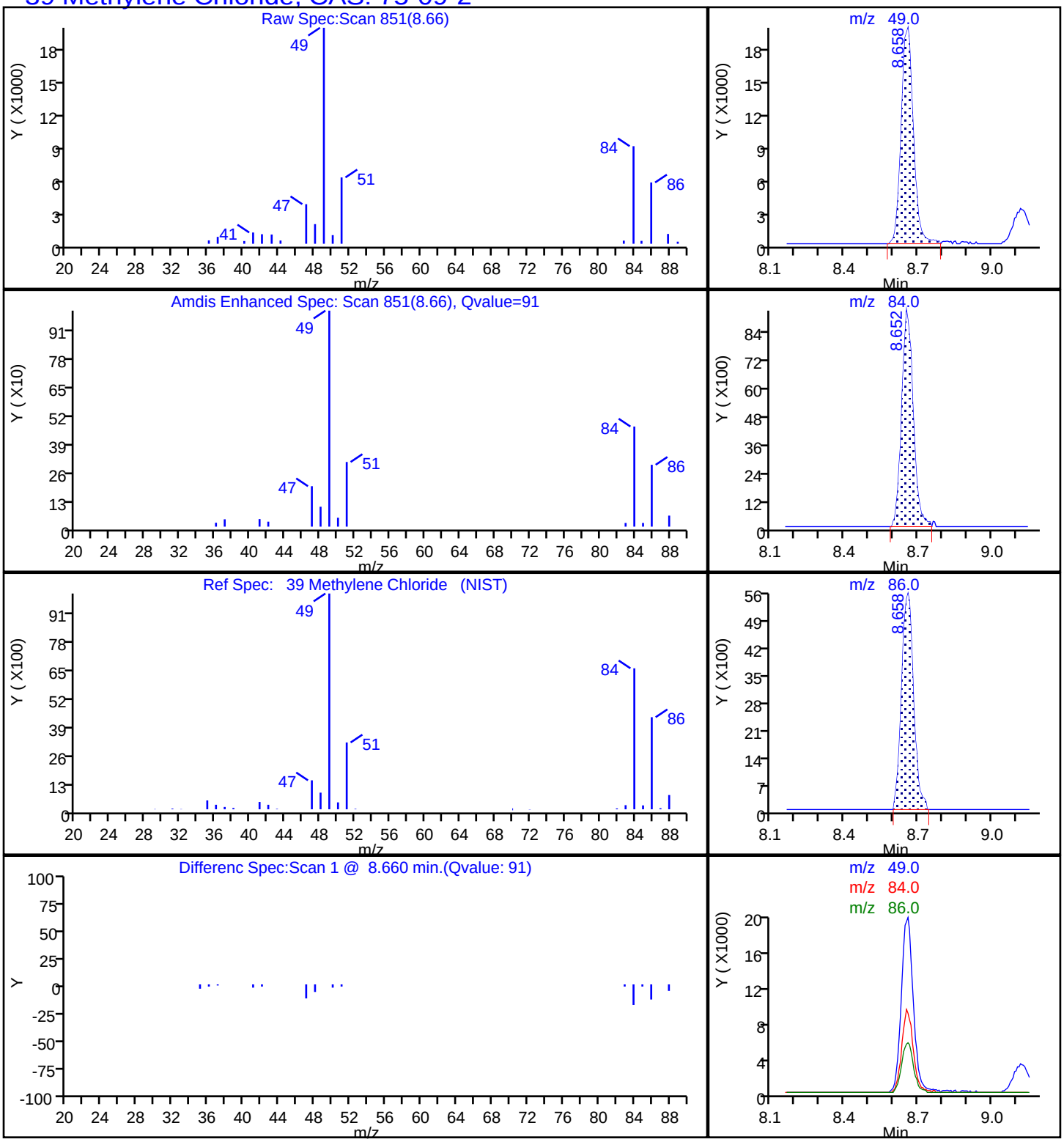
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3
Client ID:	774VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



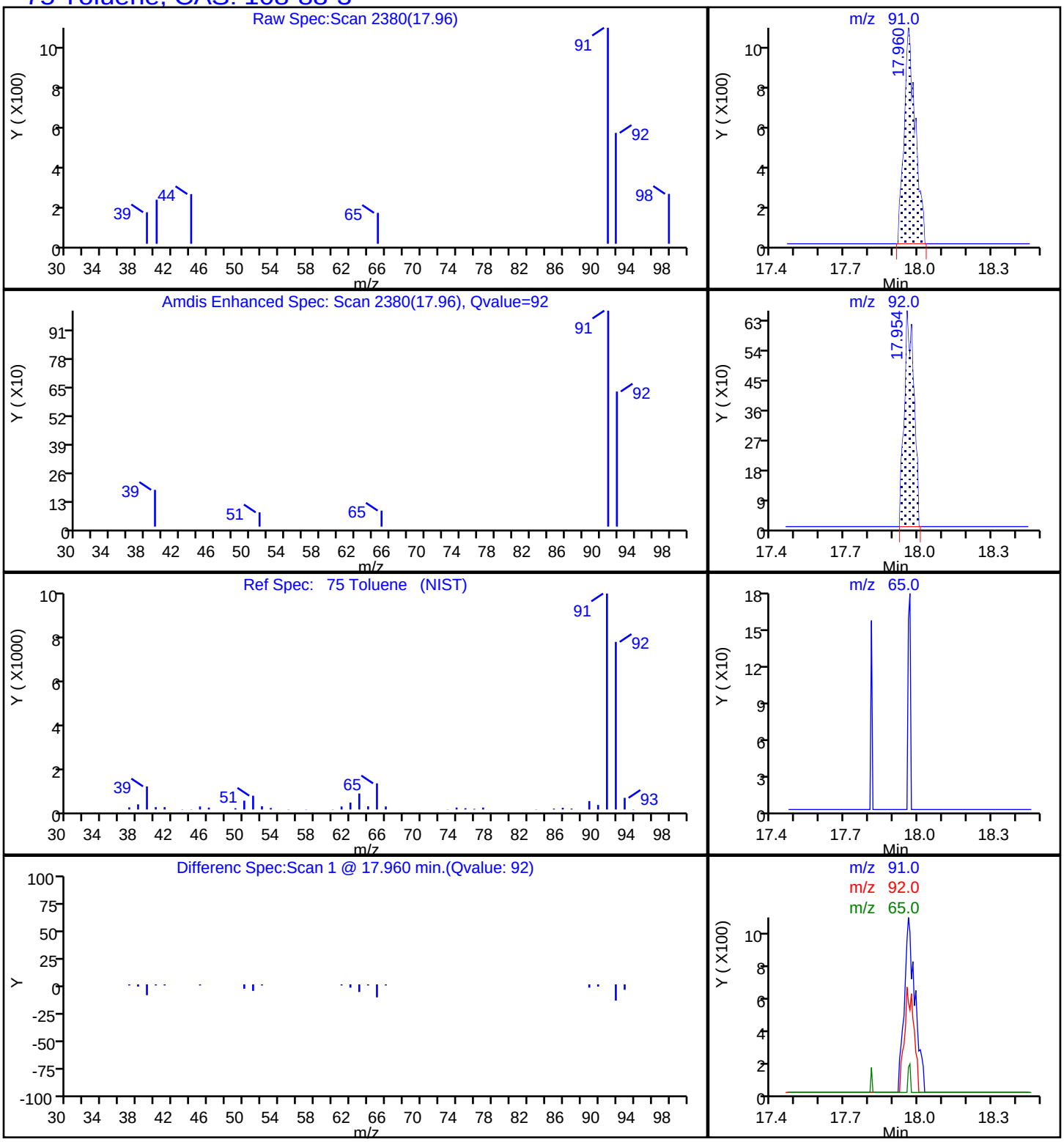
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3
Client ID:	774VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



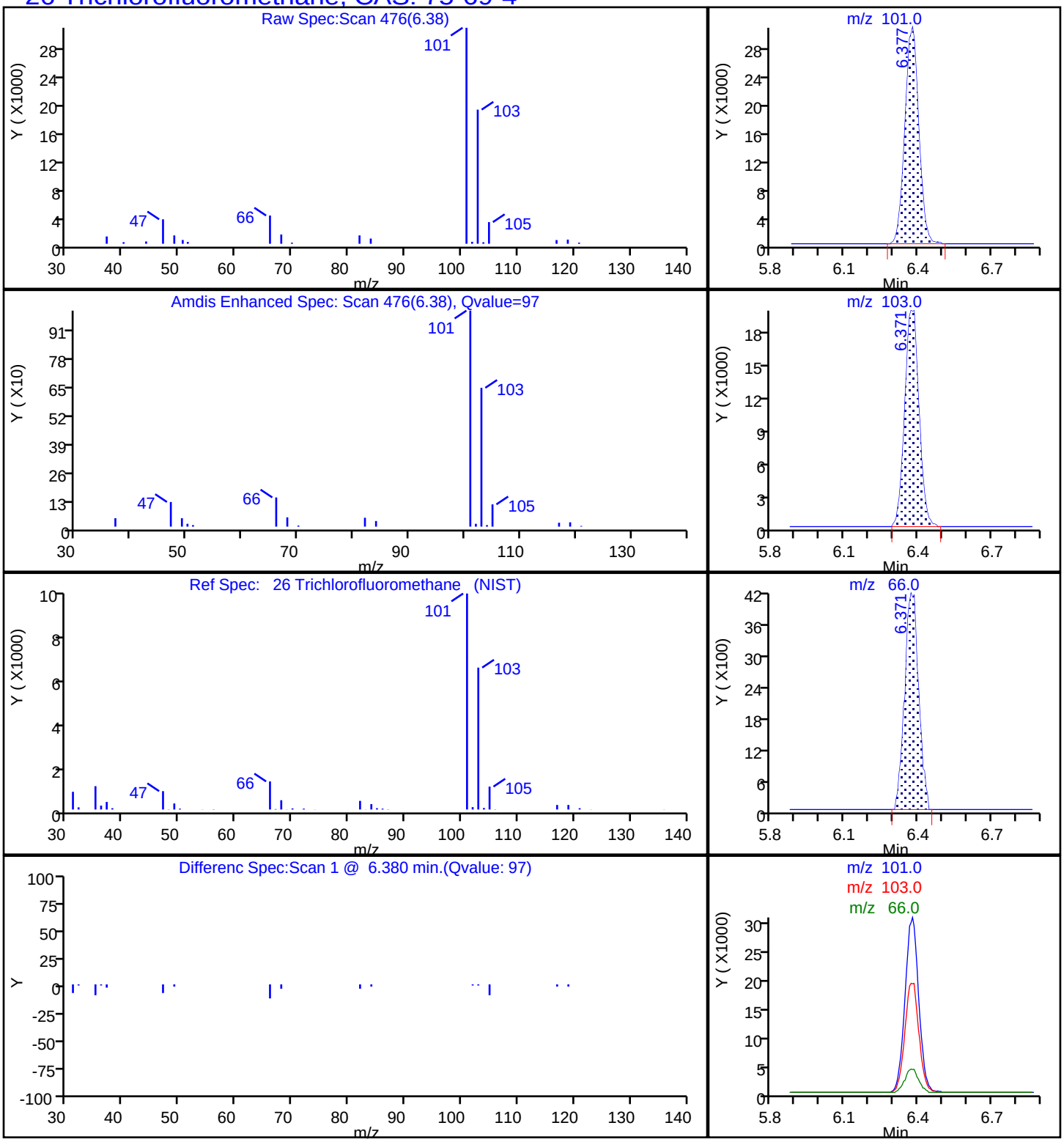
Report Date: 05-Apr-2018 12:35:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D

Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3
Client ID:	774VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

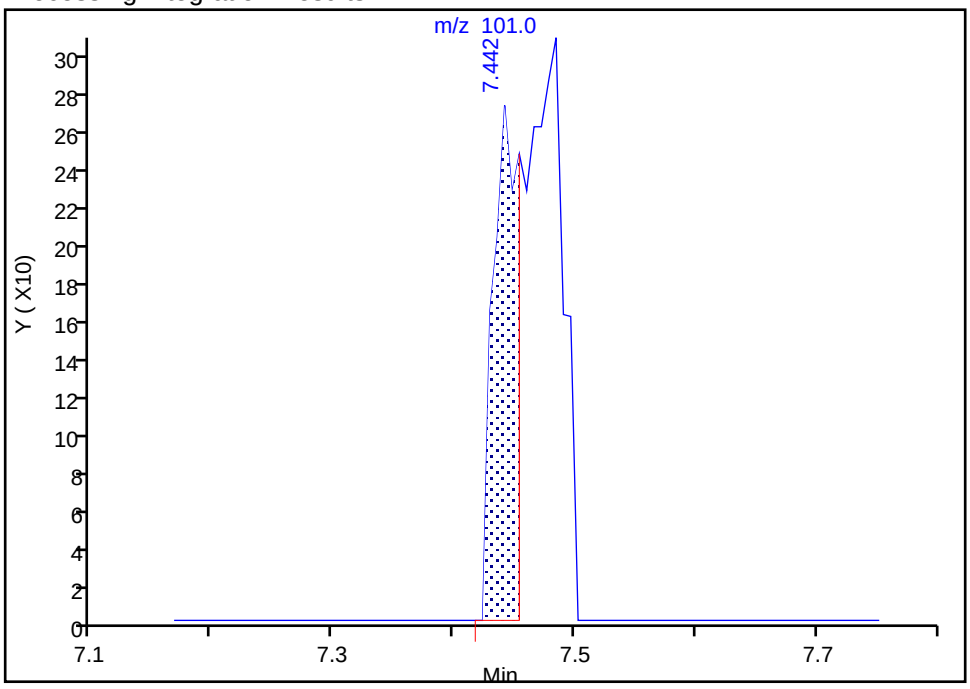
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Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3		
Client ID:	774VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

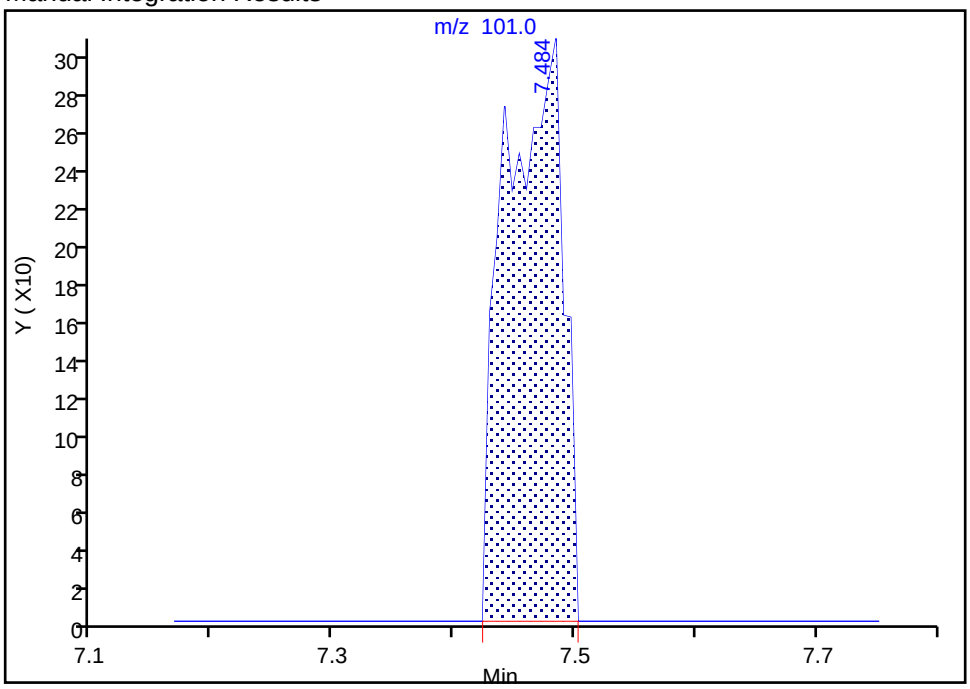
Processing Integration Results

RT: 7.44
Area: 396
Amount: 0.032996
Amount Units: ppb v/v



Manual Integration Results

RT: 7.48
Area: 990
Amount: 0.082490
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 12:30:09

Audit Action: Manually Integrated Audit Reason: Baseline

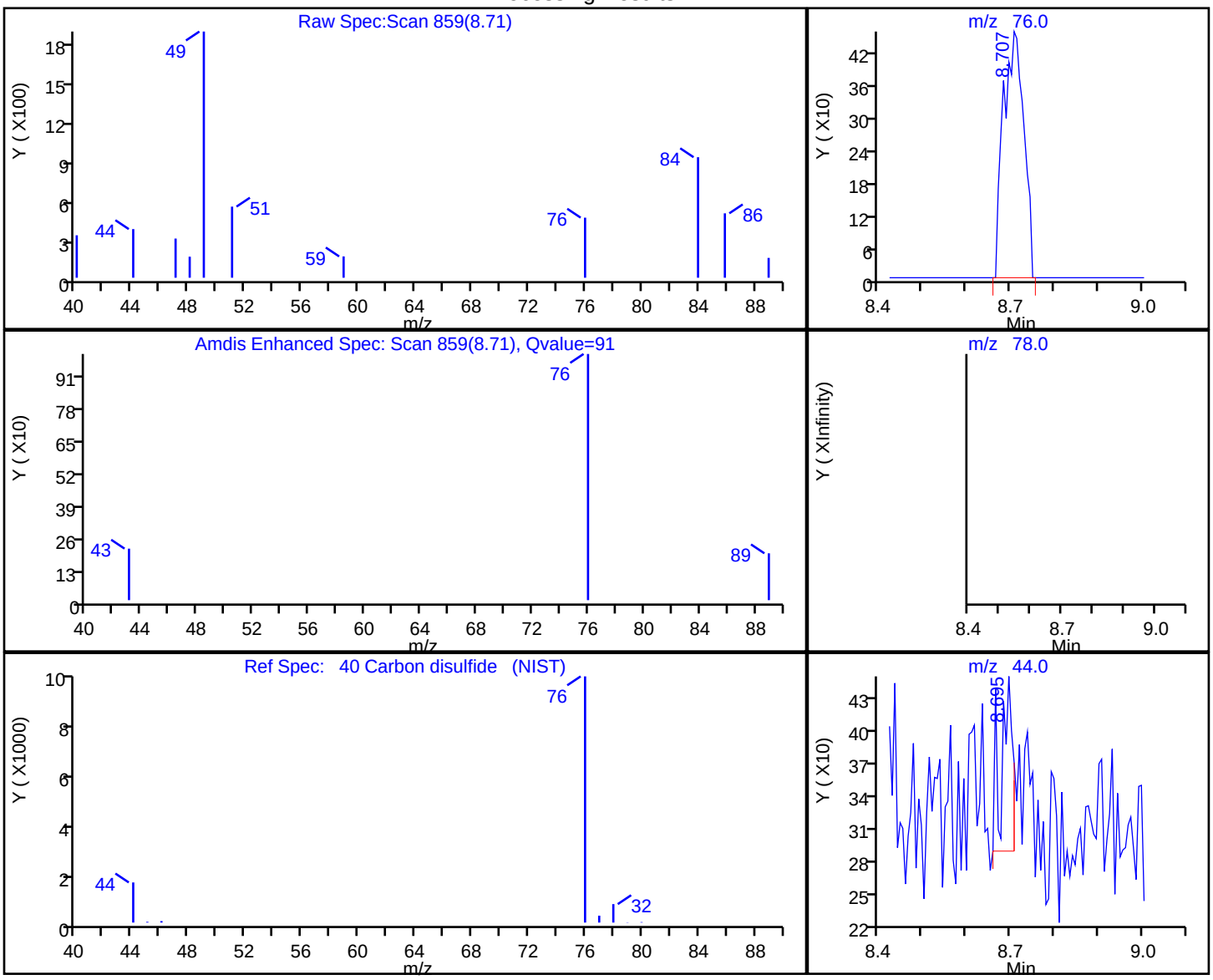
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D				
Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3		
Client ID:	774VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.71	76.00	1487	0.119754
8.71	78.00	0	
8.69	44.00	269	

Reviewer: phanthasena, 05-Apr-2018 12:31:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

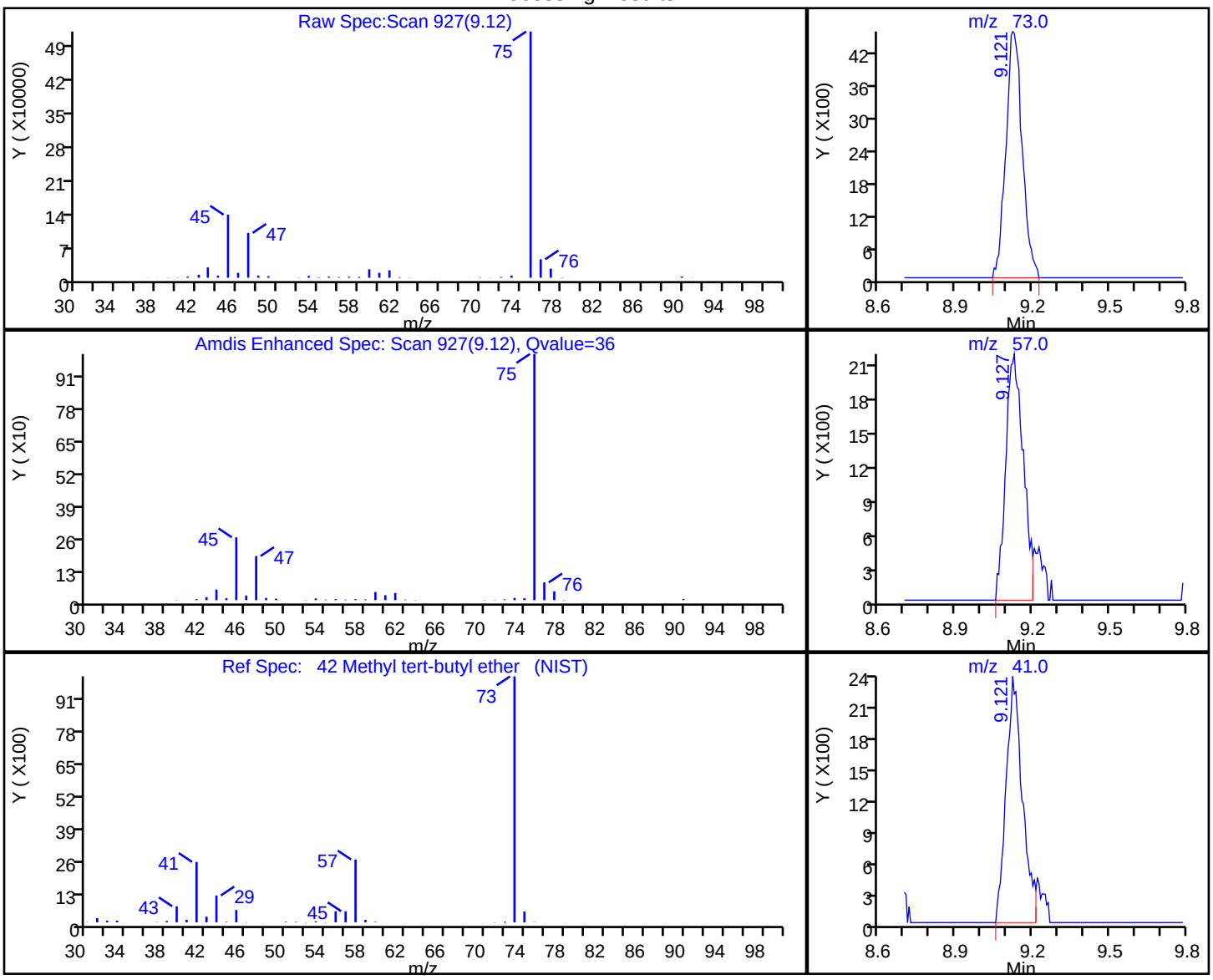
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D				
Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3		
Client ID:	774VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
9.12	73.00	20256	1.153199
9.13	57.00	10190	
9.12	41.00	10365	

Reviewer: phanthasena, 05-Apr-2018 12:35:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

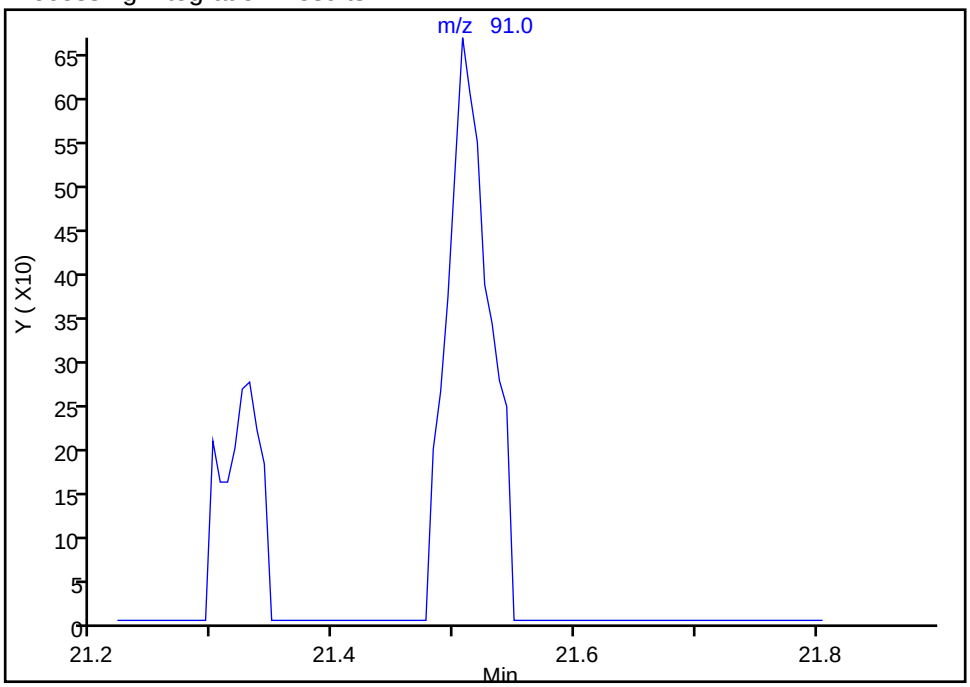
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Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3		
Client ID:	774VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

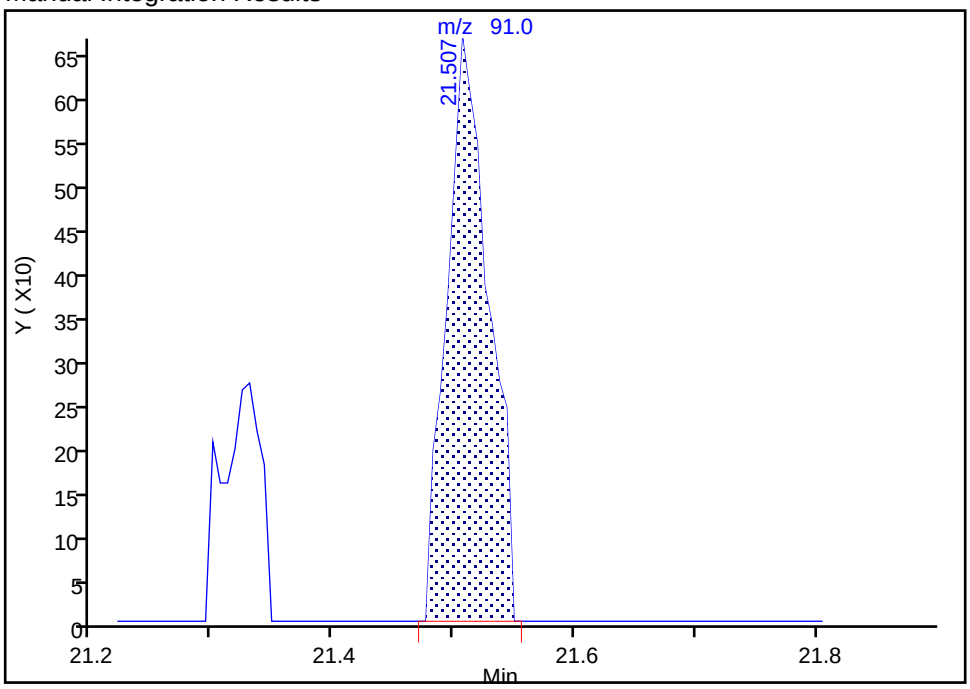
Not Detected
Expected RT: 21.51

Processing Integration Results



Manual Integration Results

RT: 21.51
Area: 1617
Amount: 0.059470
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 12:33:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

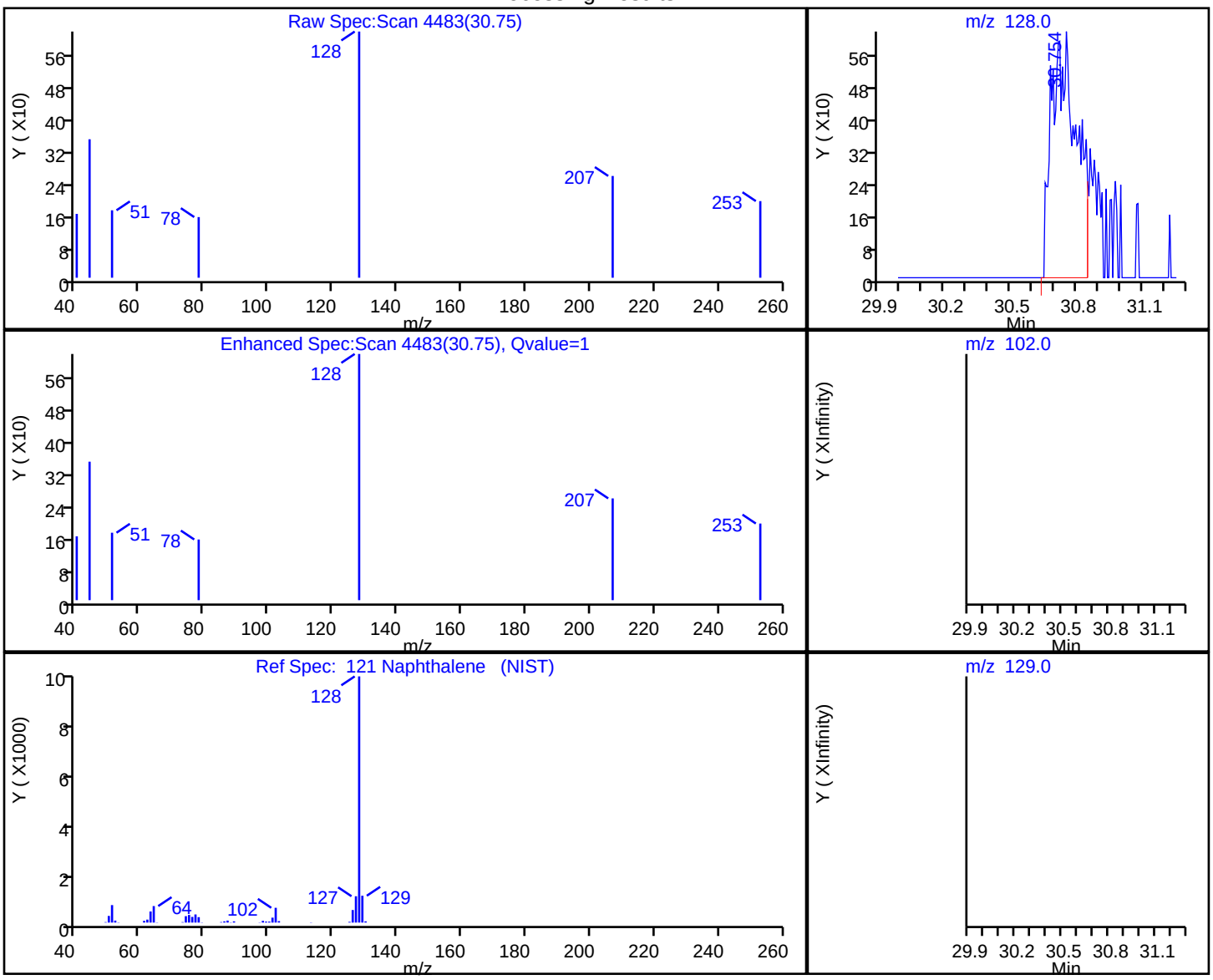
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040414.D				
Injection Date:	04-Apr-2018 21:32:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-3	Lab Sample ID:	320-37345-3		
Client ID:	774VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.75	128.00	4826	0.130784
30.62	102.00	0	
30.62	129.00	0	

Reviewer: phanthasena, 05-Apr-2018 12:35:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-1_0318 Lab Sample ID: 320-37345-5

Matrix: Air Lab File ID: MS7040415.D

Analysis Method: TO-15 Date Collected: 03/21/2018 15:35

Sample wt/vol: 402(mL) Date Analyzed: 04/04/2018 22:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U M	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	2.3	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	J	3.3	1.6	0.55
67-64-1	Acetone	51		12	0.95	0.42
71-43-2	Benzene	0.64	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.52	J	1.5	0.98	0.46
74-87-3	Chloromethane	1.2	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-1_0318 | Lab Sample ID: 320-37345-5

Matrix: Air | Lab File ID: MS7040415.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 15:35

Sample wt/vol: 402(mL) | Date Analyzed: 04/04/2018 22:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.9	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.33	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.52	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.78	J M	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.30	J	1.7	0.87	0.23
100-42-5	Styrene	0.29	J	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	1.2	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.7	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D
Lims ID: 320-37345-A-5
Client ID: 776VMP-1_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 22:29:30 ALS Bottle#: 11 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-5
Misc. Info.: 402 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 13:26:12 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 13:26:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.223	12.235	-0.012	93	27172	4.00	
* 2 1,4-Difluorobenzene	114	14.383	14.389	-0.006	96	118435	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.069	-0.006	92	113260	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.428	13.428	-0.006	97	49483	4.43	
$ 5 Toluene-d8 (Surr)	100	17.784	17.782	-0.006	98	79618	3.86	
$ 6 4-Bromofluorobenzene (Surr	95	23.612	23.611	-0.006	85	75502	3.59	
13 Dichlorodifluoromethane	85	3.901	3.903	-0.006	96	4125	0.3766	
16 Chloromethane	50	4.363	4.353	0.006	95	3358	0.5719	
26 Trichlorofluoromethane	101	6.377	6.389	-0.018	95	4427	0.2952	
32 Acetone	43	7.302	7.300	-0.006	100	273250	21.4	
33 1,1,2-Trichloro-1,2,2-trif	101	7.466	7.466	-0.012	39	1294	0.1050	M
39 Methylene Chloride	49	8.646	8.656	-0.018	84	1564	0.1501	
48 2-Butanone (MEK)	72	11.177	11.166	0.000	93	2732	0.7867	
53 Chloroform	83	11.956	11.950	-0.006	71	1461	0.1059	
59 Carbon tetrachloride	117	13.470	13.483	-0.019	1	1430	0.0855	
63 Benzene	78	13.750	13.757	-0.012	93	4445	0.2001	
71 4-Methyl-2-pentanone (MIBK	43	16.792	16.767	0.018	97	10351	0.3105	
75 Toluene	91	17.966	17.959	0.000	85	9732	0.3113	
86 Ethylbenzene	91	21.324	21.318	0.000	92	2971	0.0750	
87 m-Xylene & p-Xylene	91	21.513	21.513	0.006	26	5506	0.1796	a
88 o-Xylene	91	22.401	22.401	-0.006	91	2134	0.0699	
89 Styrene	104	22.444	22.431	0.006	89	1616	0.0687	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

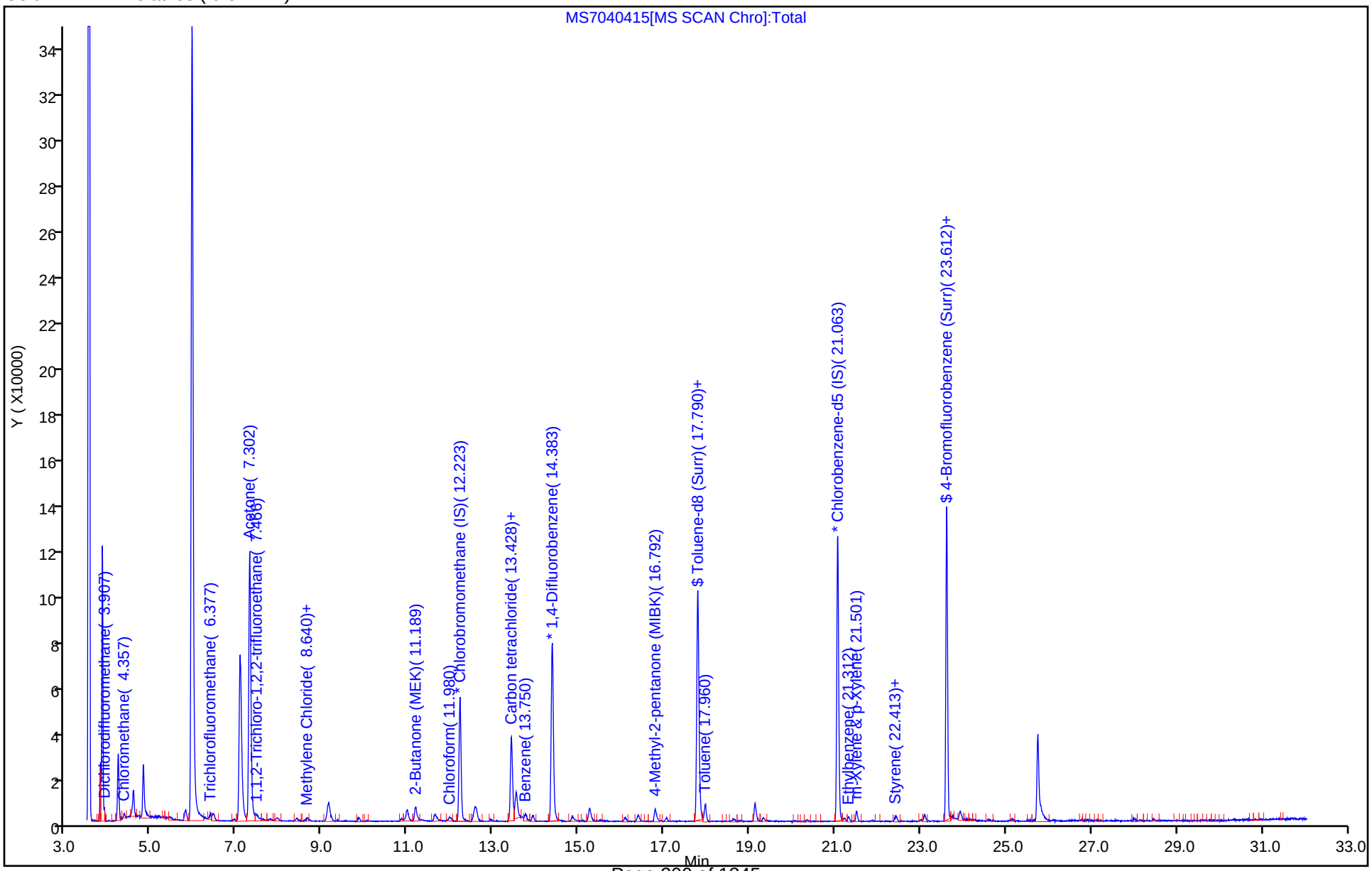
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5	Worklist Smp#:	15
Client ID:	776VMP-1_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D
Lims ID: 320-37345-A-5
Client ID: 776VMP-1_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 22:29:30 ALS Bottle#: 11 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-5
Misc. Info.: 402 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 13:26:12 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 13:26:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.43	110.75
$ 5 Toluene-d8 (Surr)	4.00	3.86	96.48
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.59	89.72

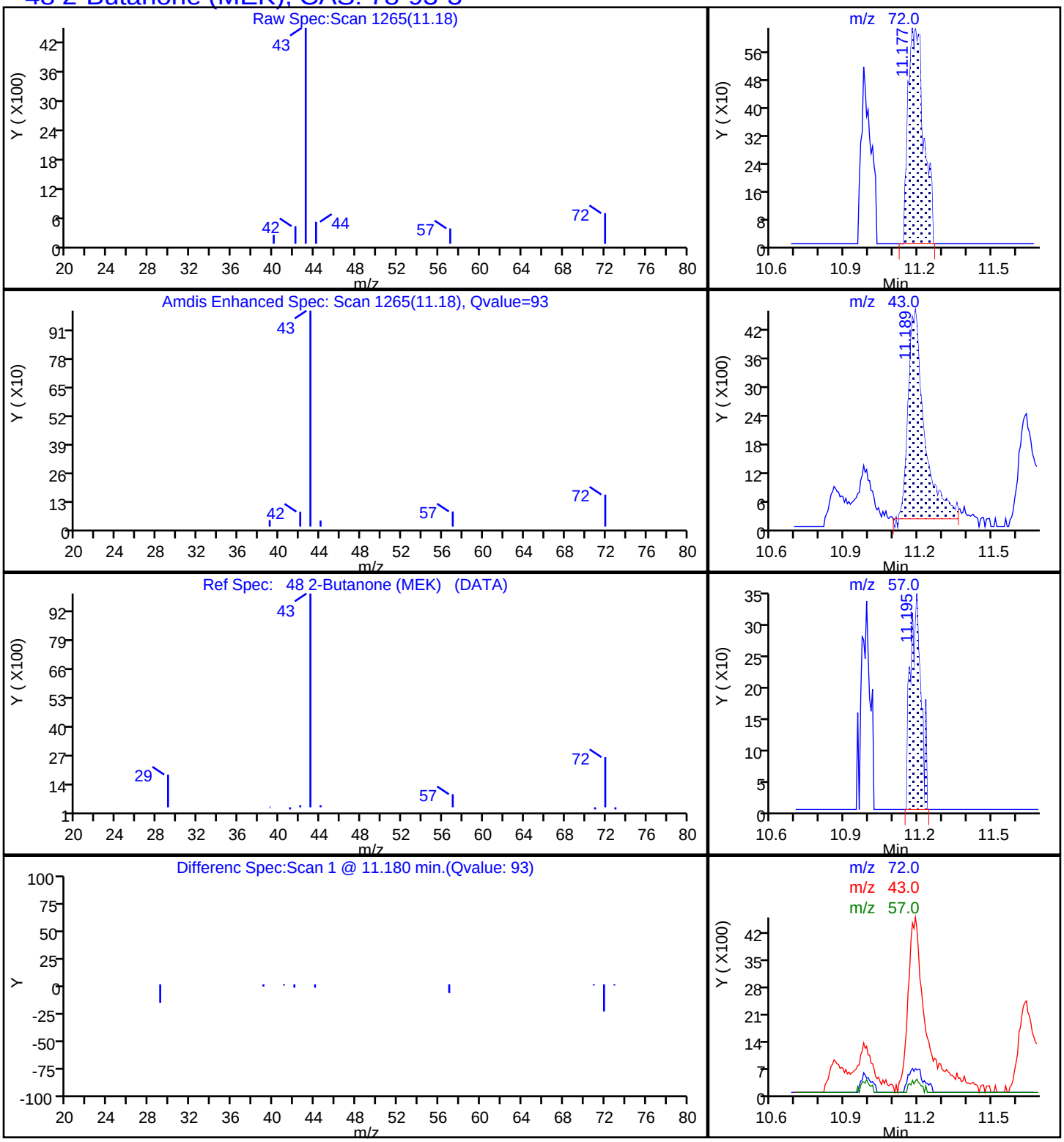
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



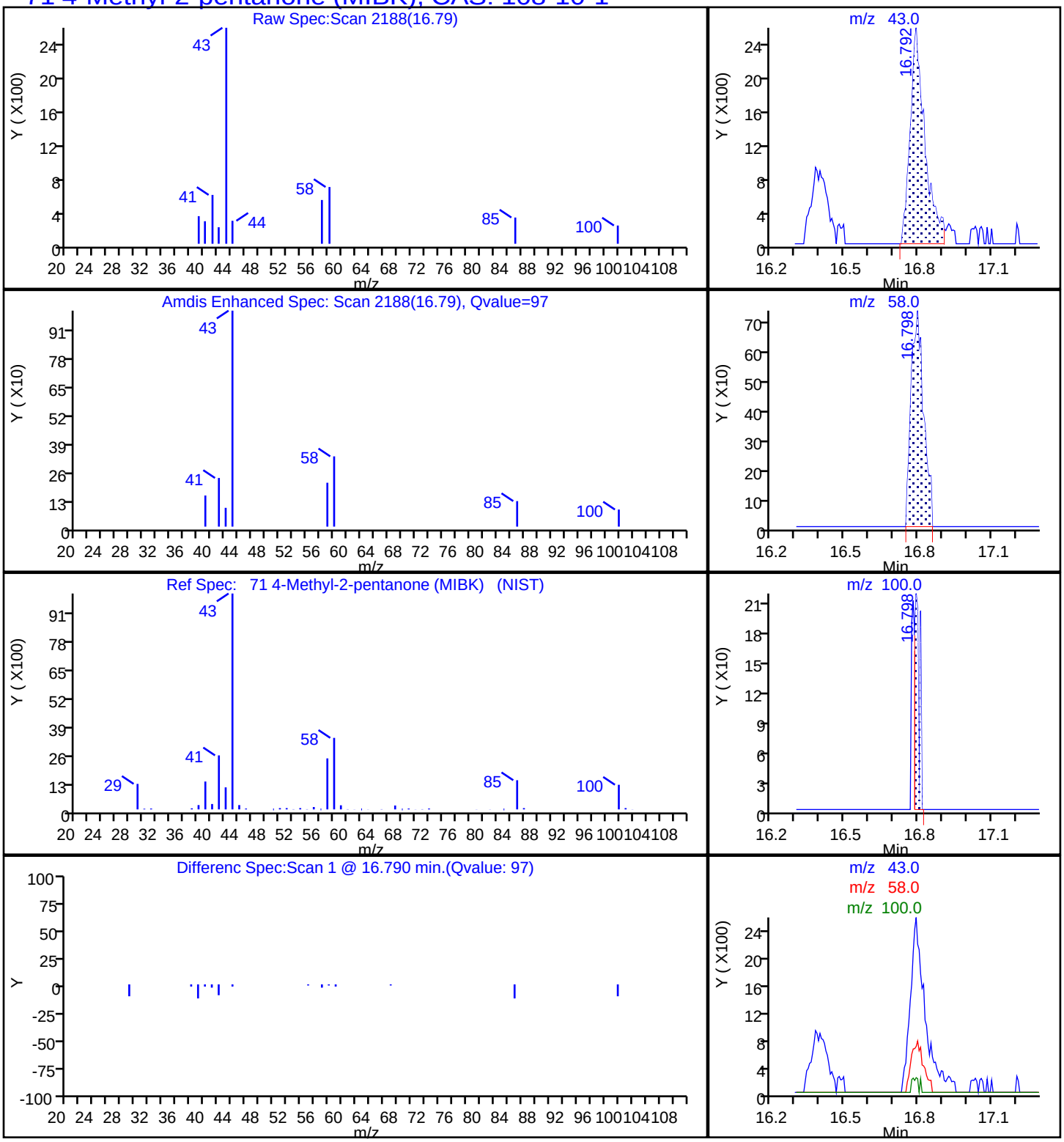
Report Date: 05-Apr-2018 13:26:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

71 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



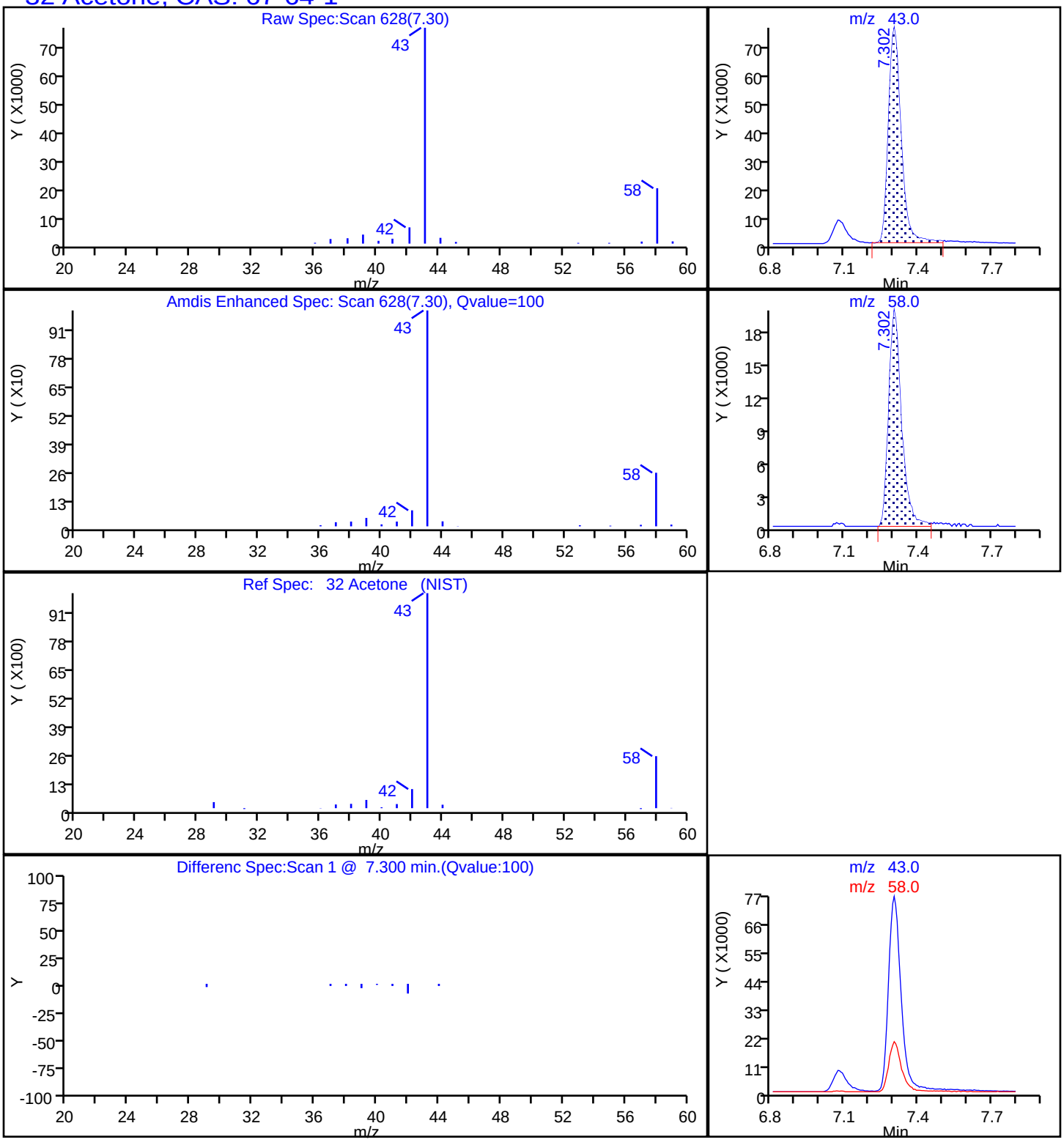
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1



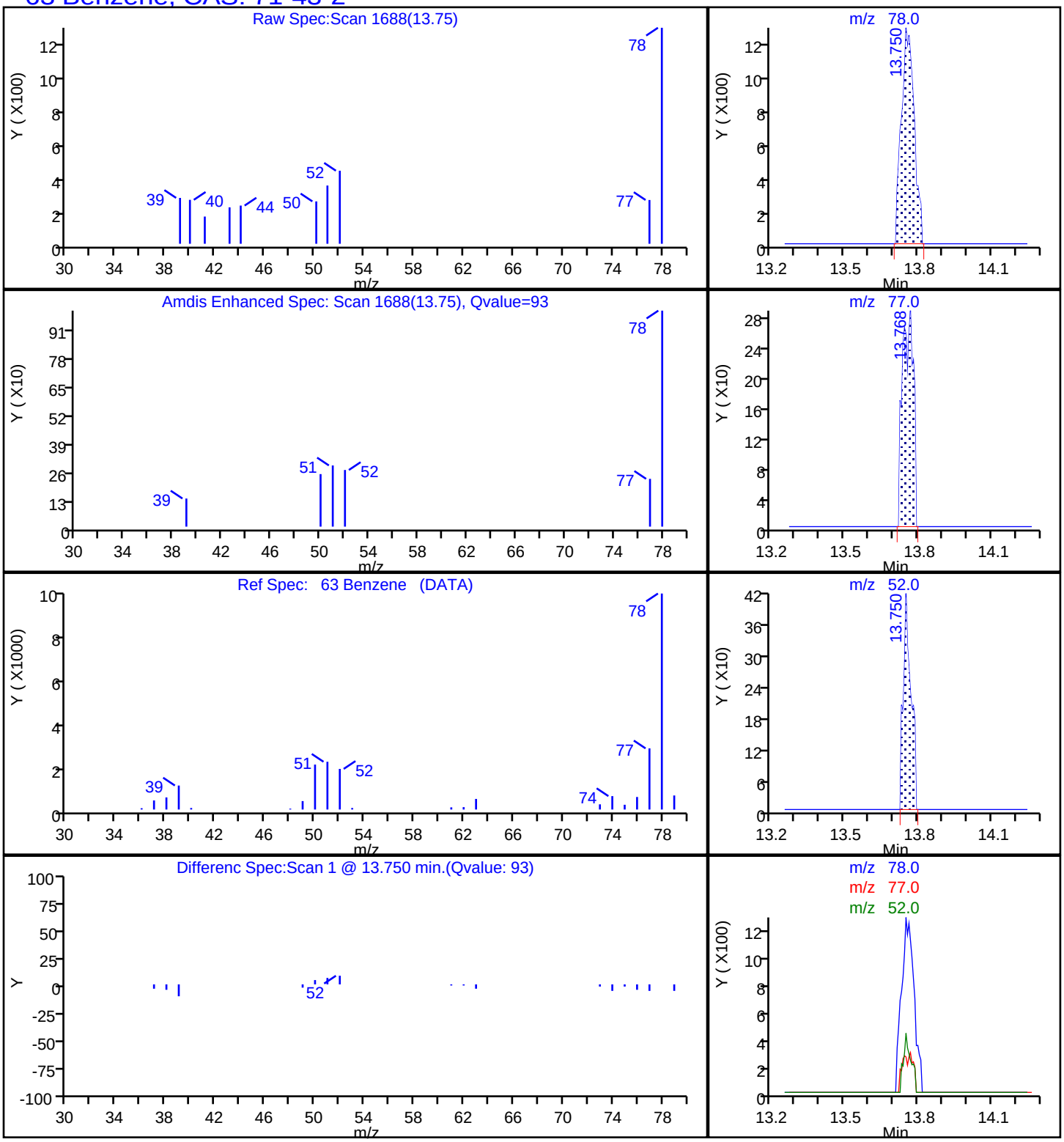
Report Date: 05-Apr-2018 13:26:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



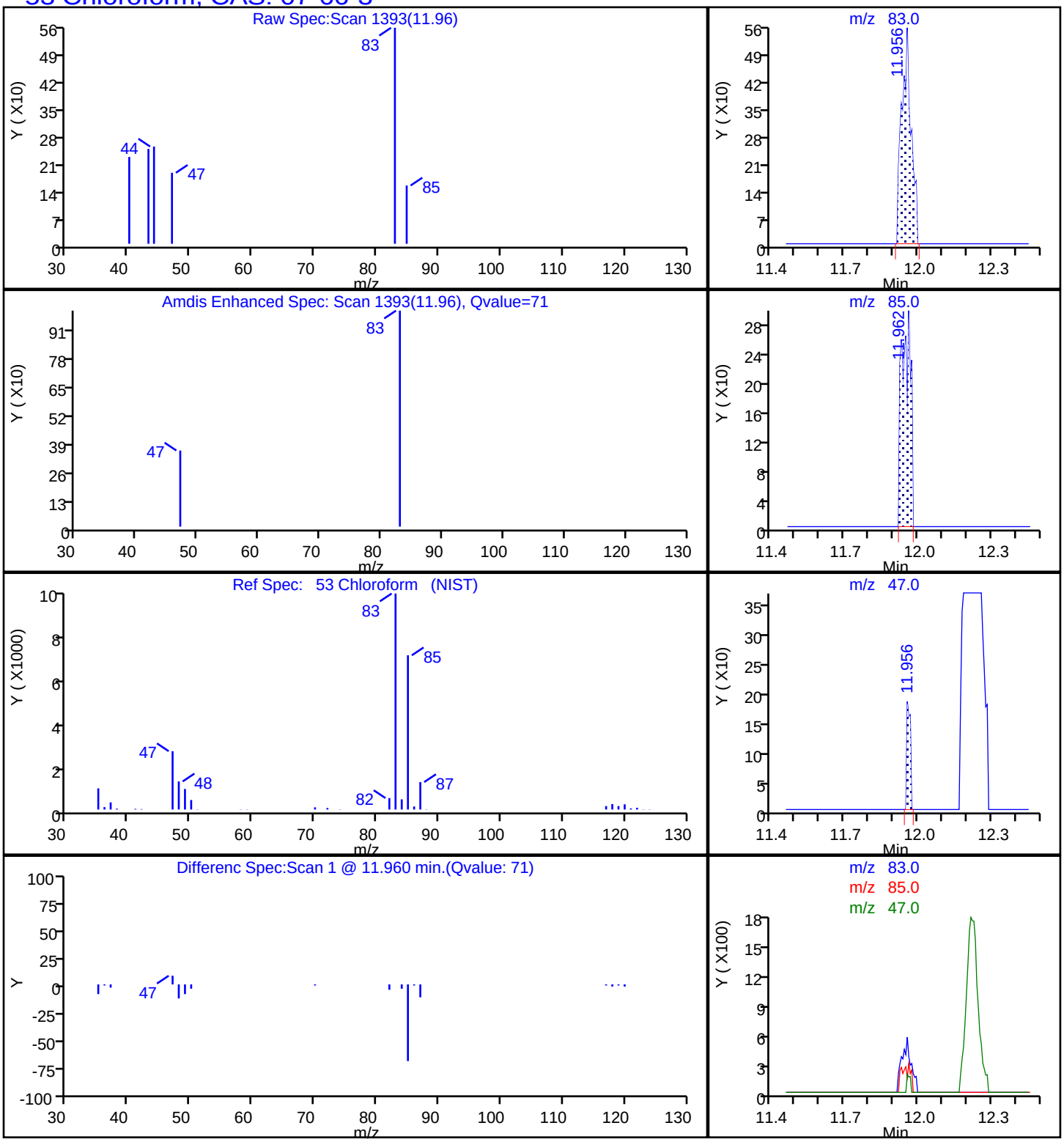
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



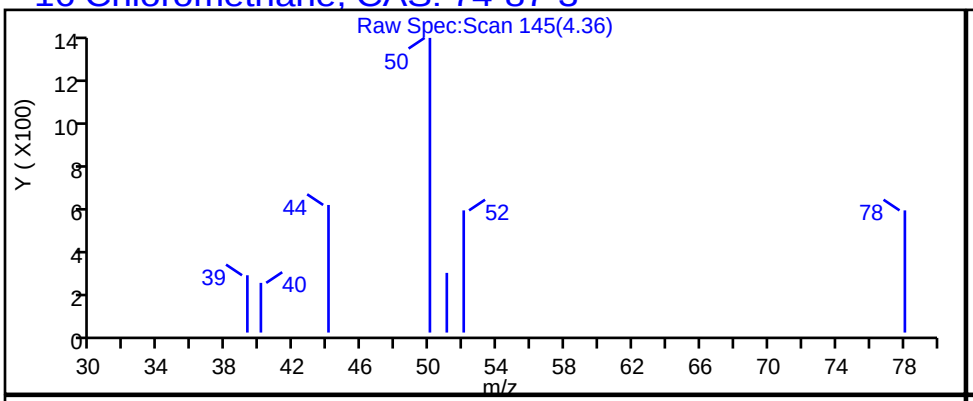
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

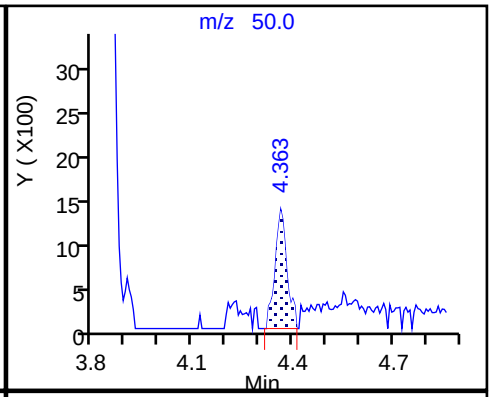
TestAmerica Sacramento

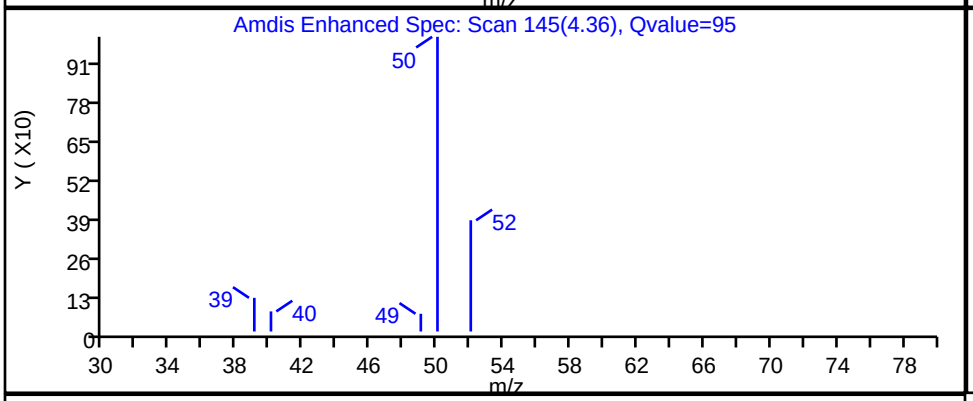
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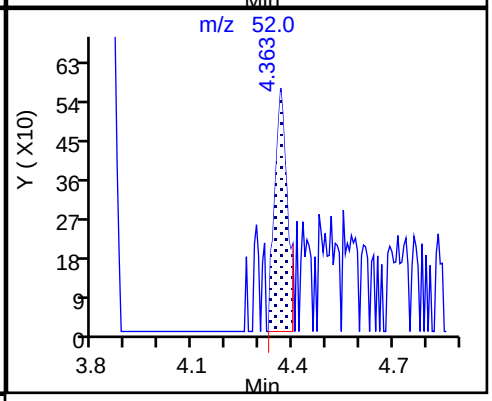
Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

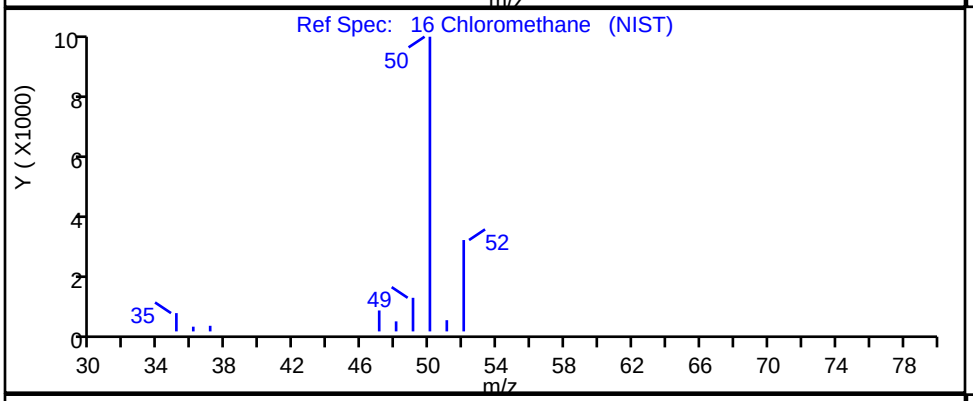
16 Chloromethane, CAS: 74-87-3

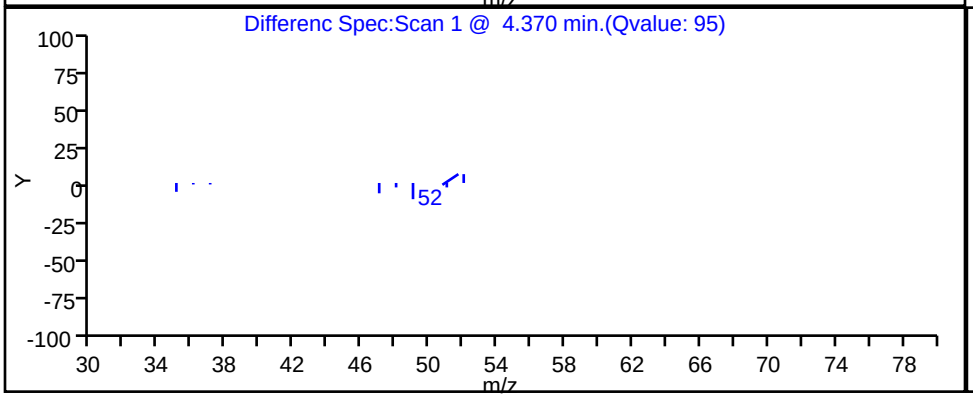


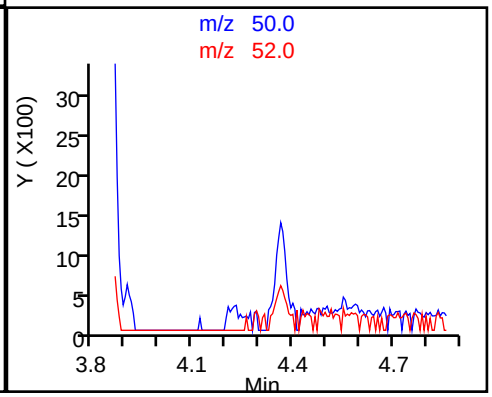












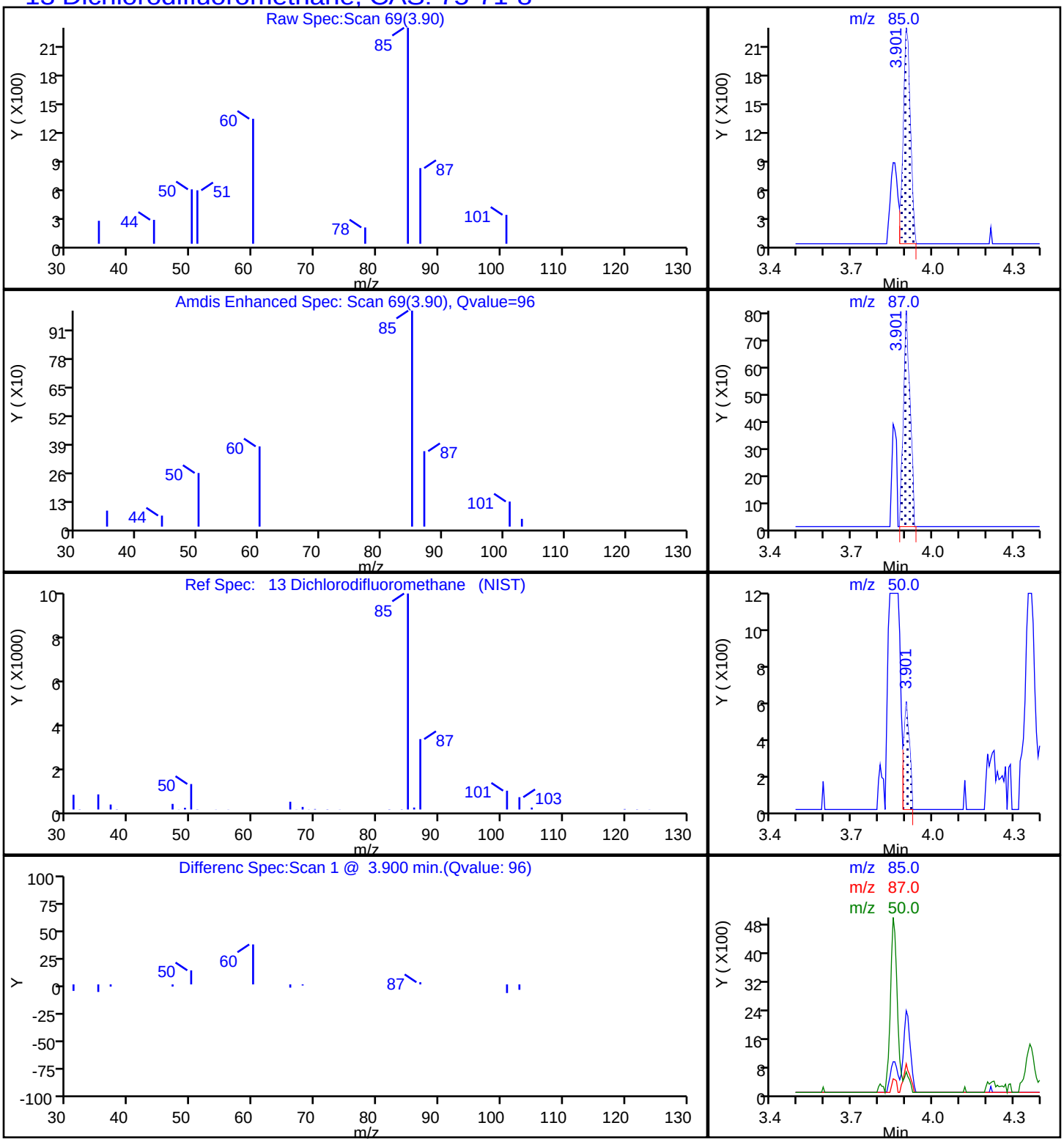
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



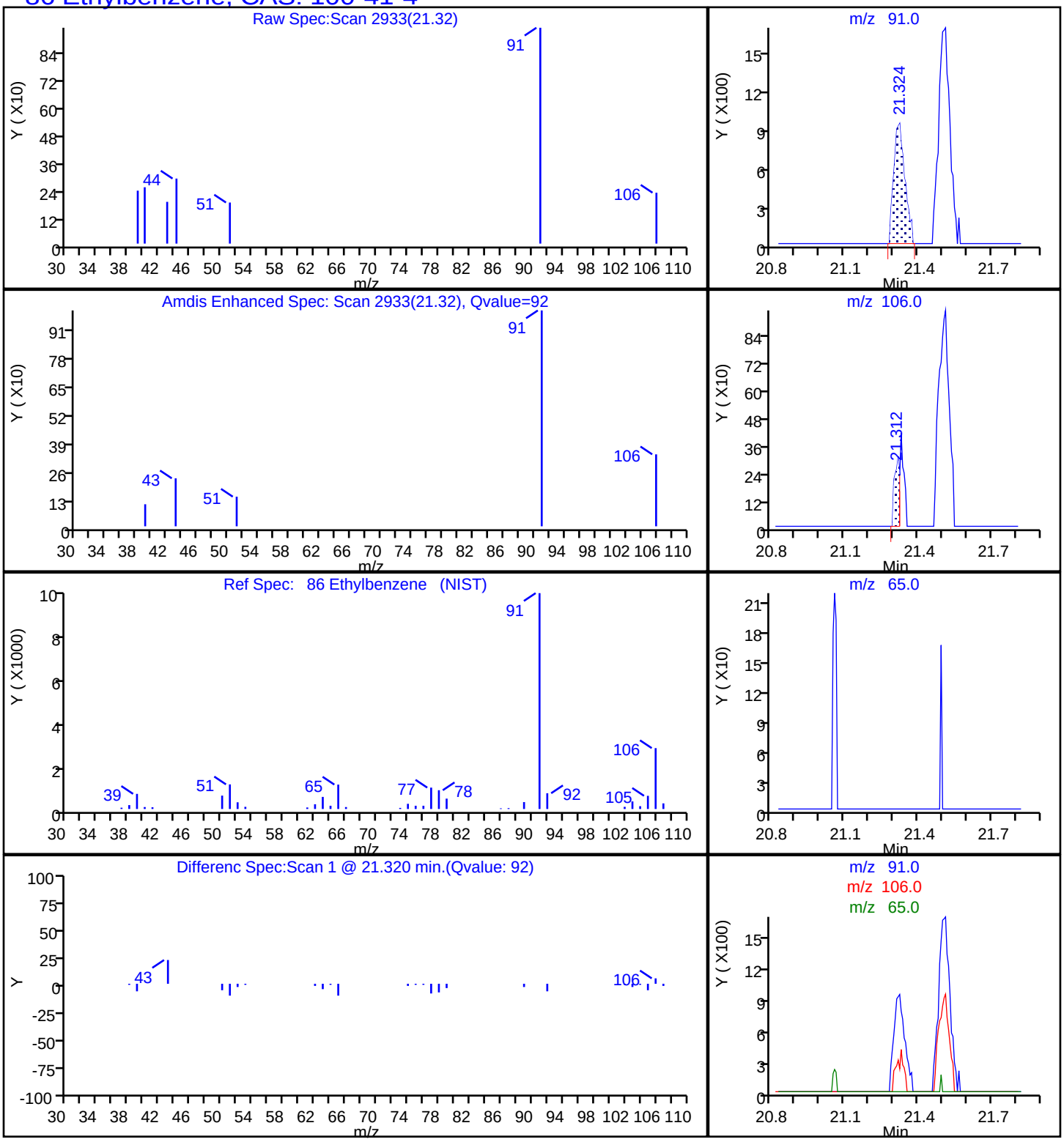
Report Date: 05-Apr-2018 13:26:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



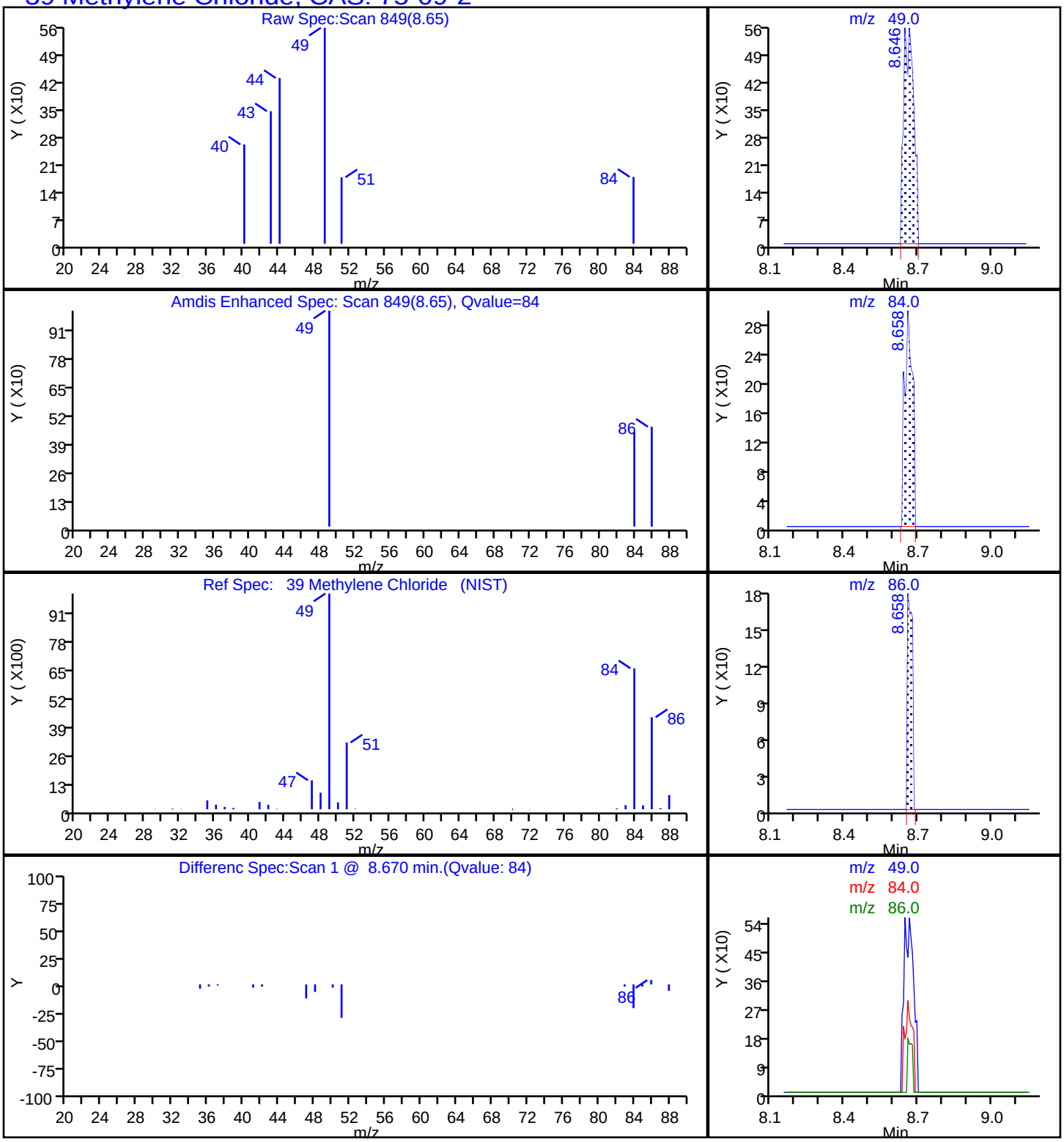
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



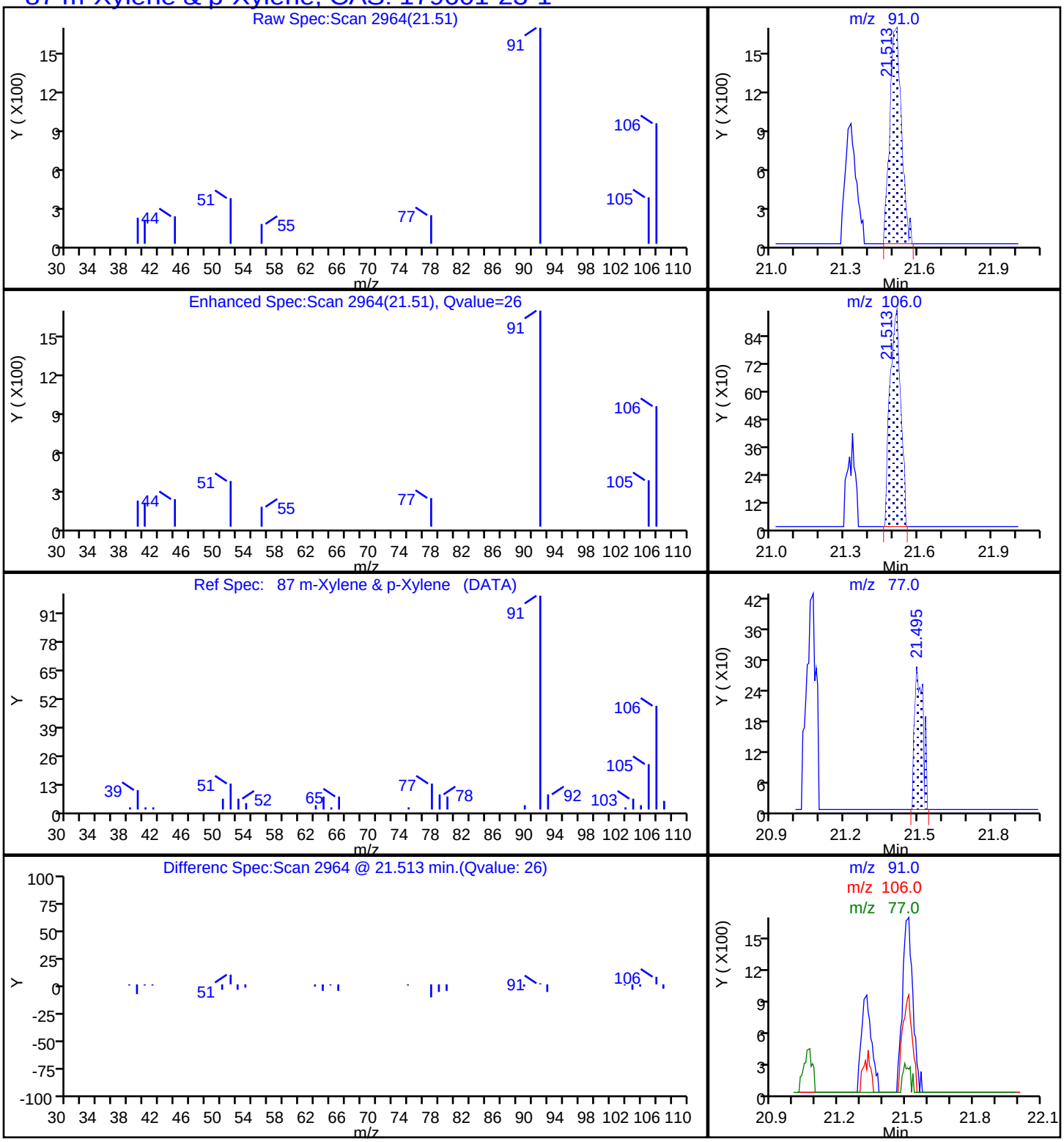
Report Date: 05-Apr-2018 13:26:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1



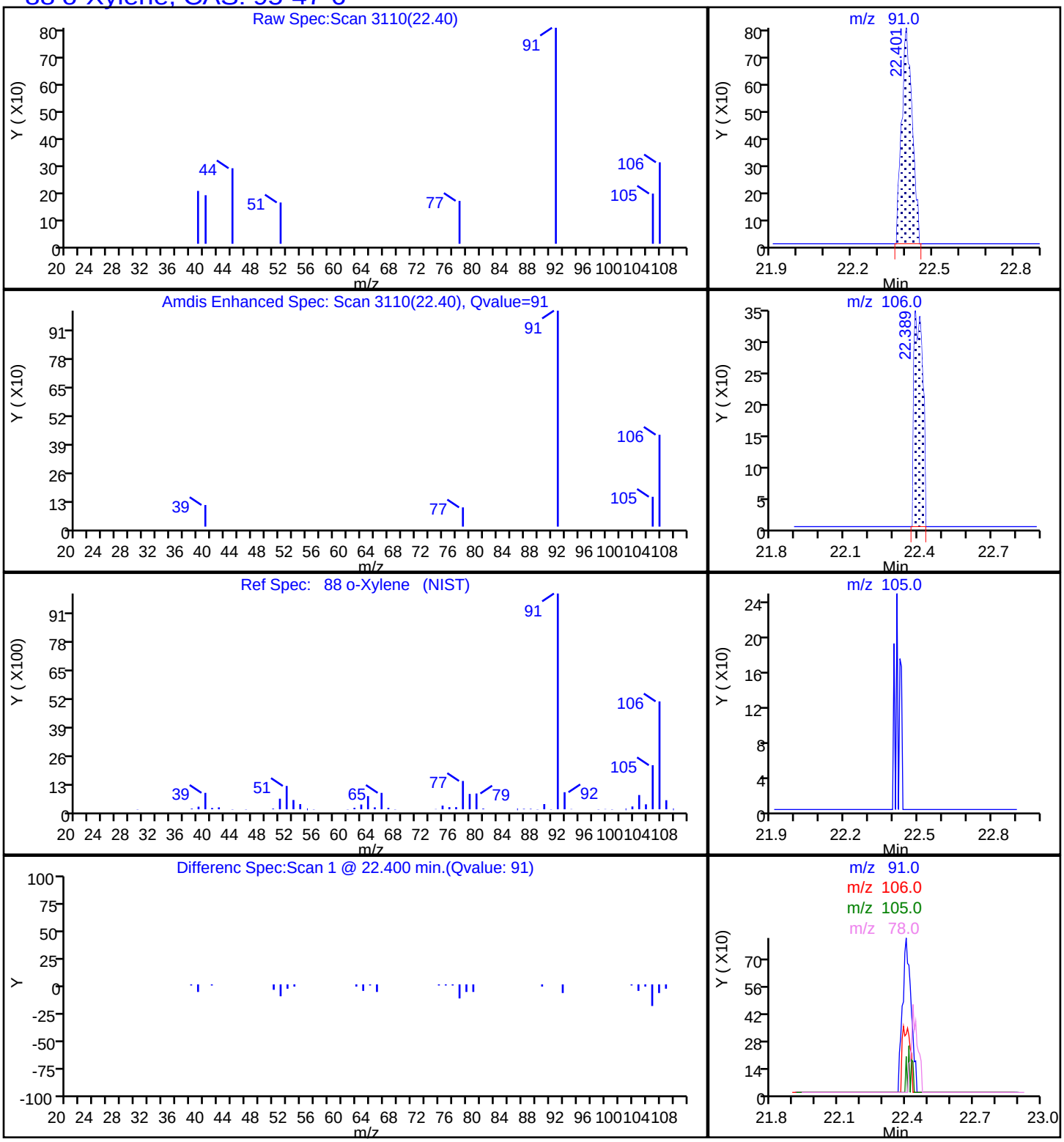
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



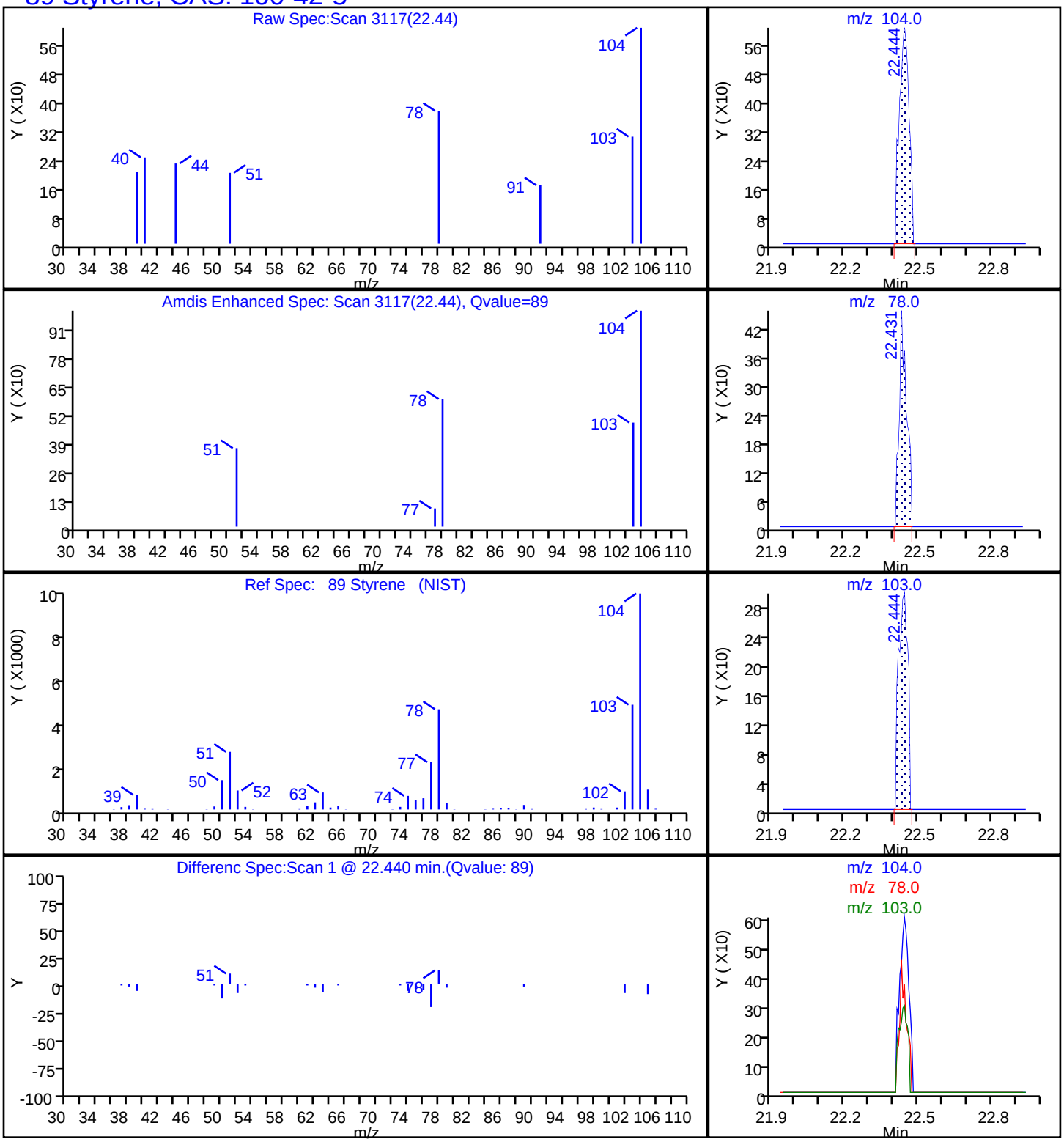
Report Date: 05-Apr-2018 13:26:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

89 Styrene, CAS: 100-42-5



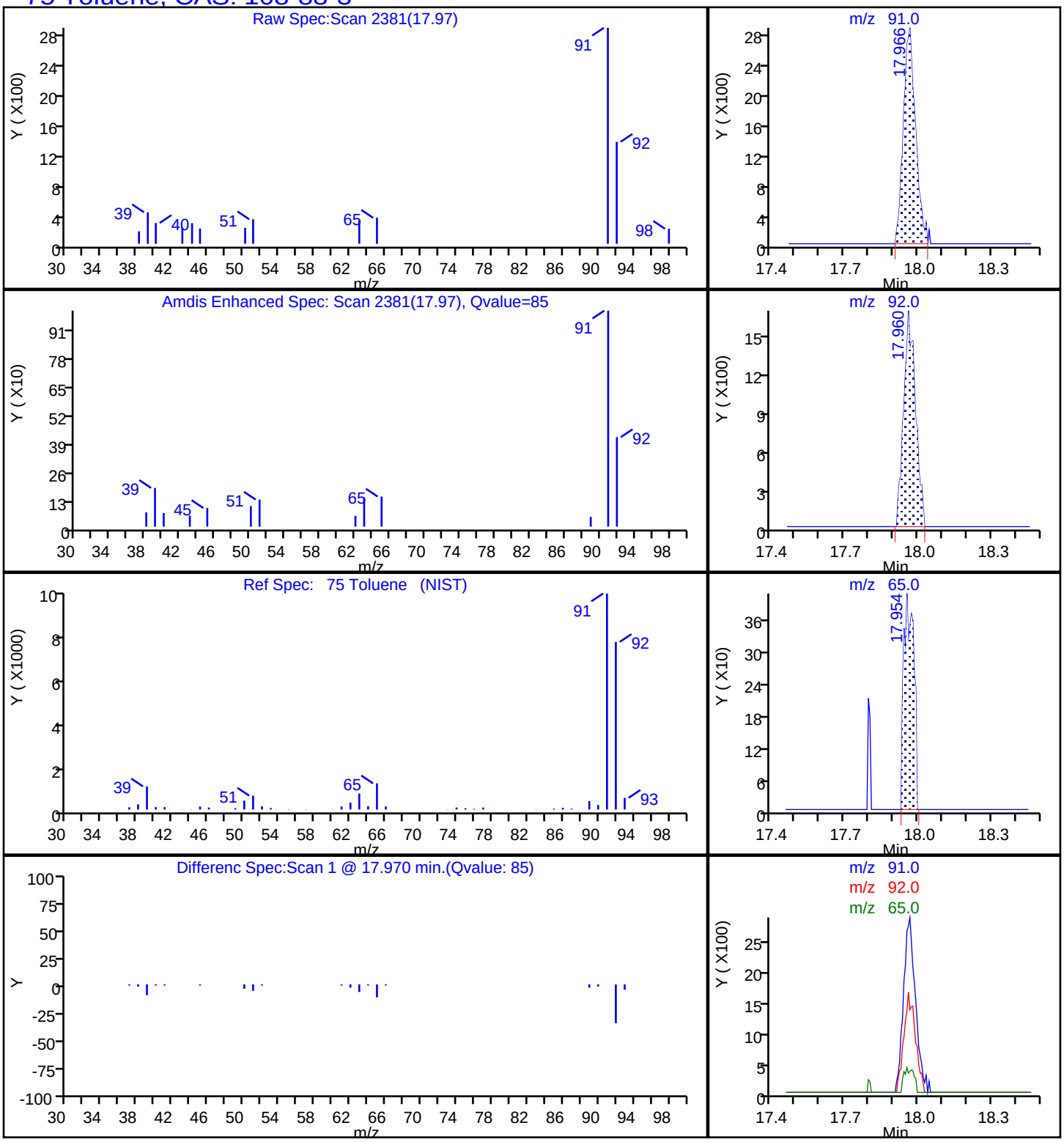
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5
Client ID:	776VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



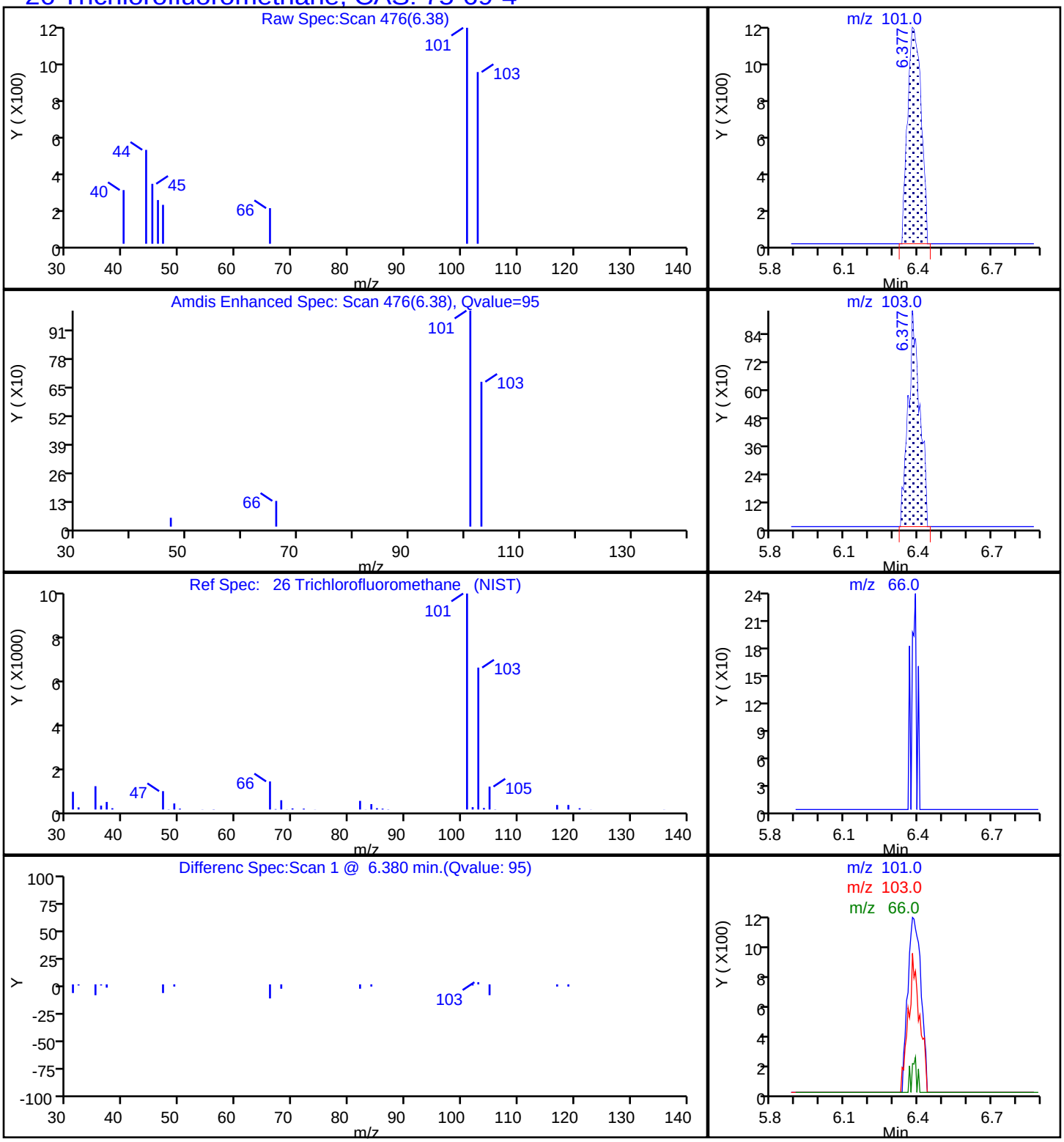
Report Date: 05-Apr-2018 13:26:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D

Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

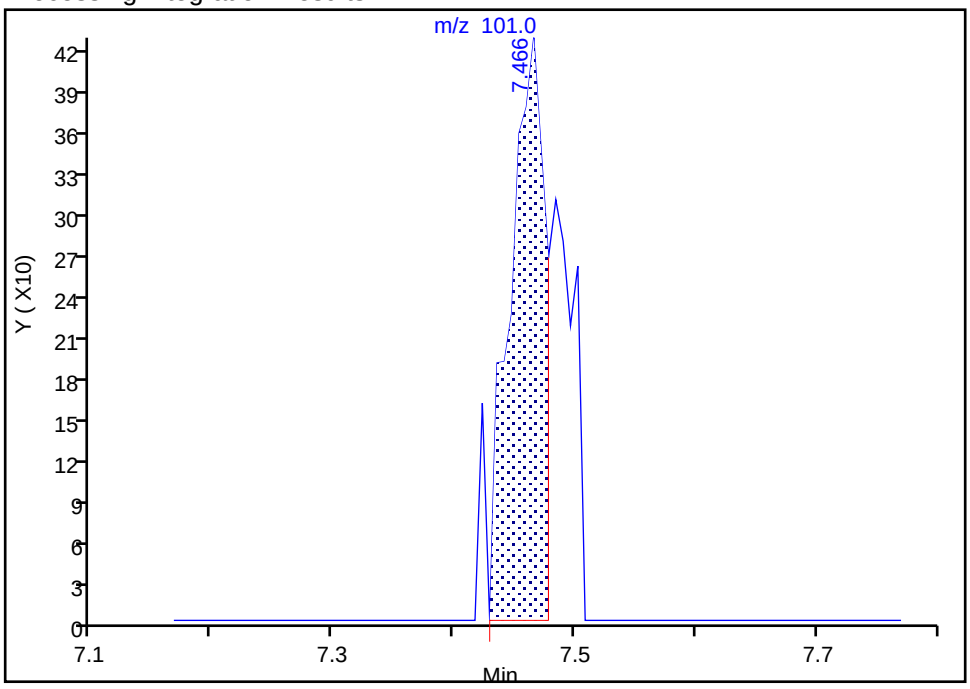
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Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

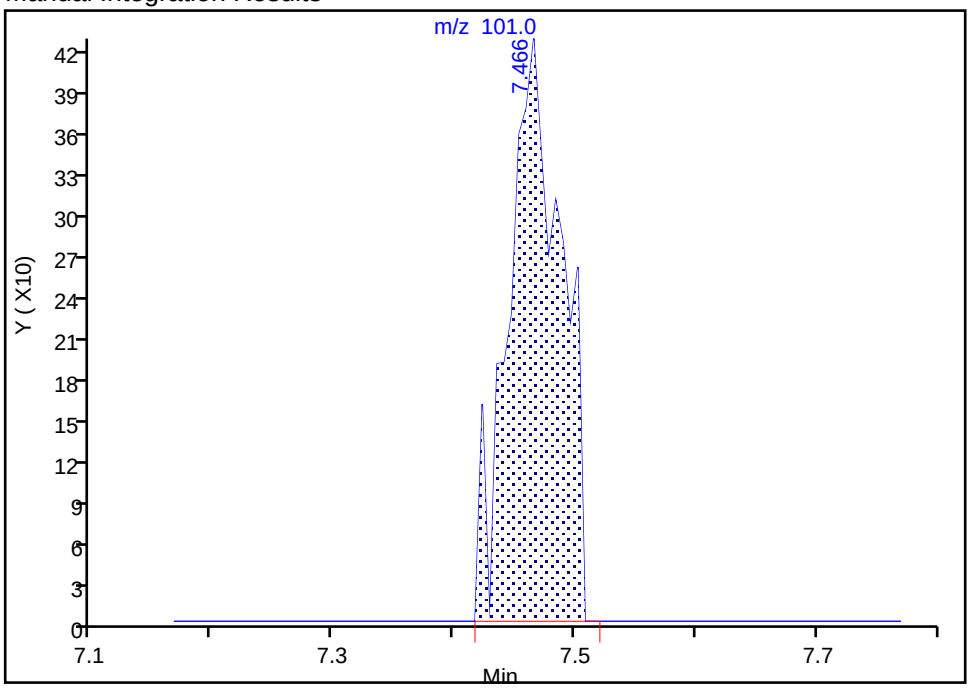
Processing Integration Results

RT: 7.47
Area: 854
Amount: 0.069286
Amount Units: ppb v/v



Manual Integration Results

RT: 7.47
Area: 1294
Amount: 0.104983
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 13:25:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

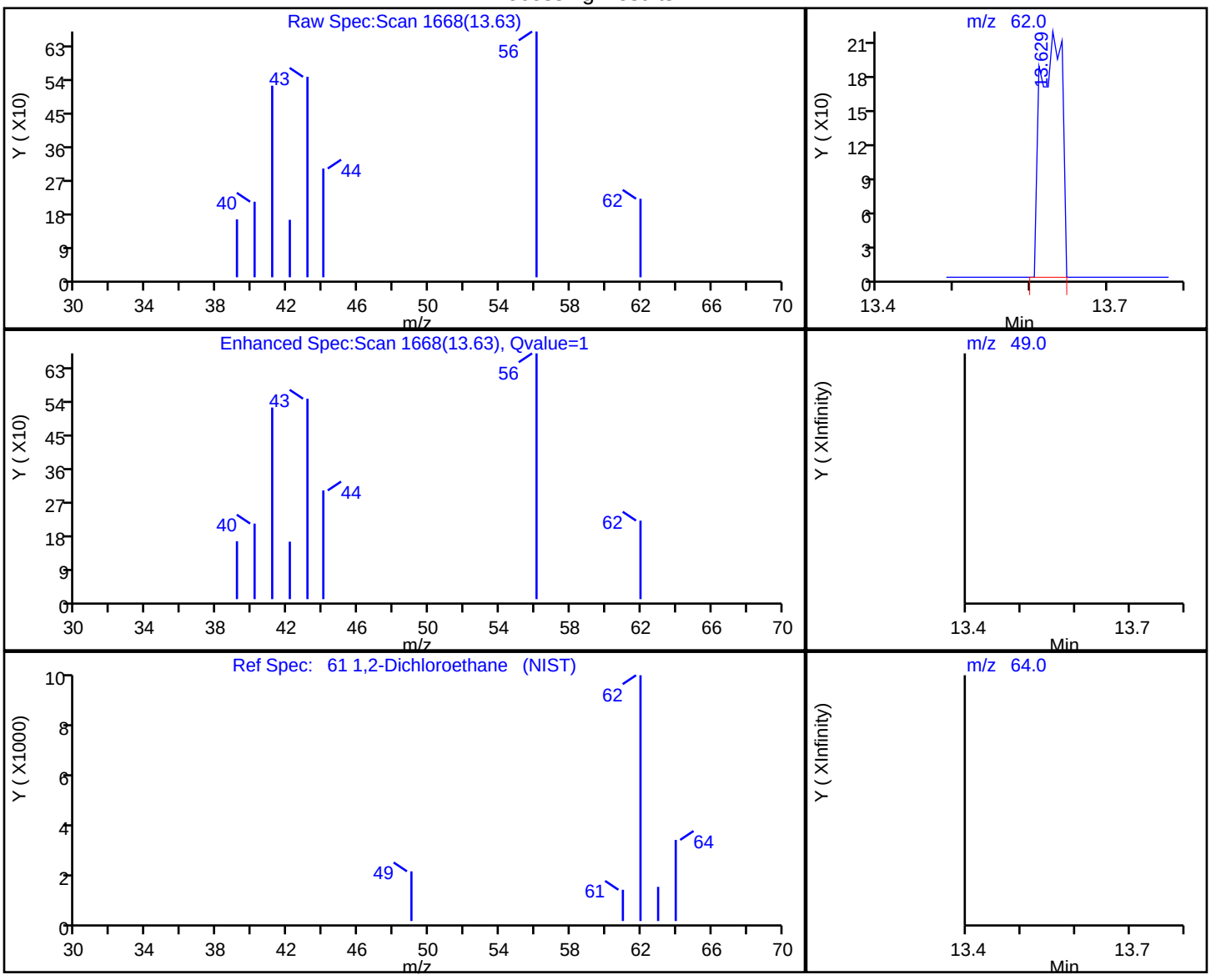
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D				
Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

61 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
13.63	62.00	409	0.036868
13.63	49.00	0	
13.63	64.00	0	

Reviewer: phanthasena, 05-Apr-2018 13:26:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

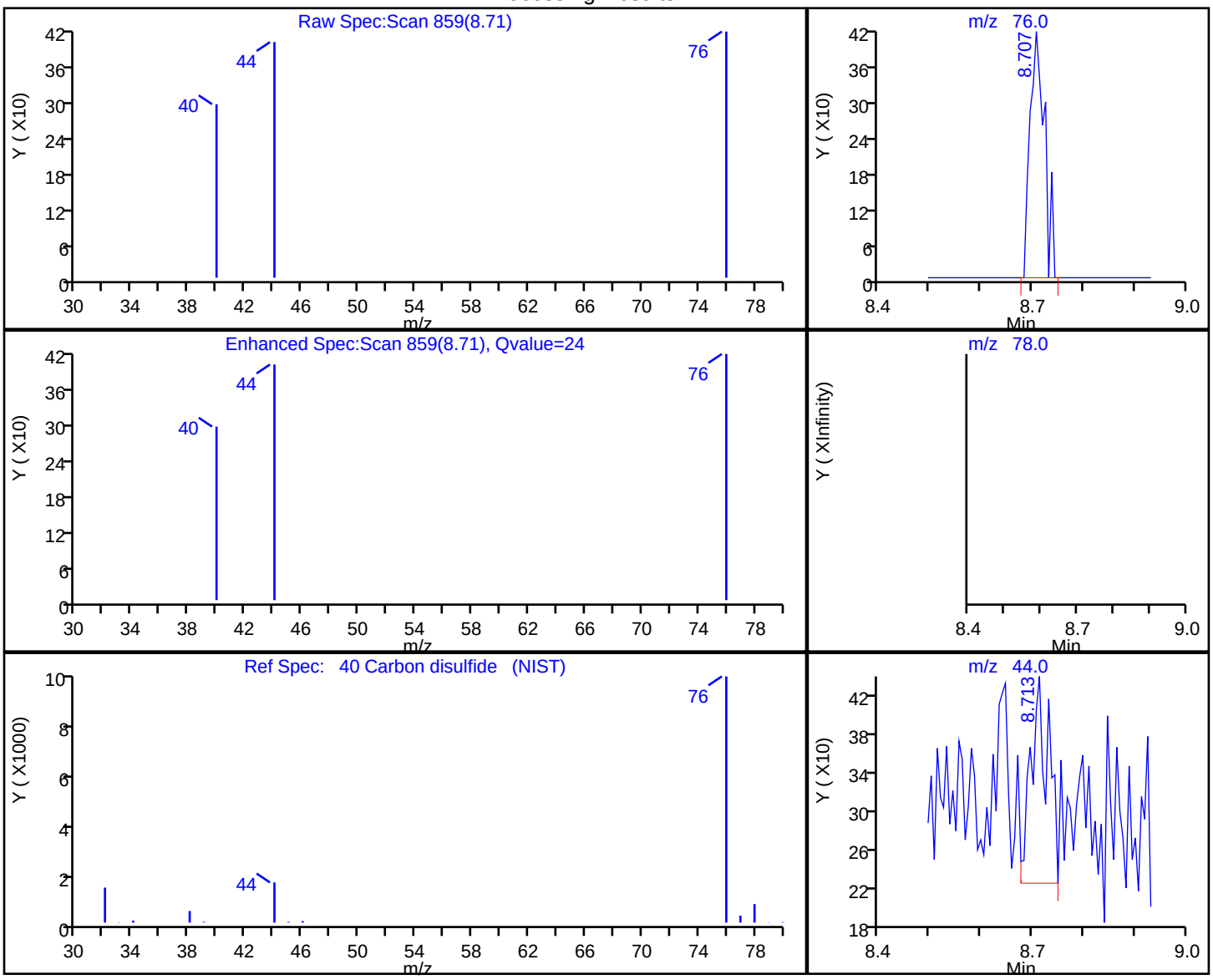
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D				
Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.71	76.00	831	0.065163
8.71	78.00	0	
8.71	44.00	502	

Reviewer: phanthasena, 05-Apr-2018 13:26:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

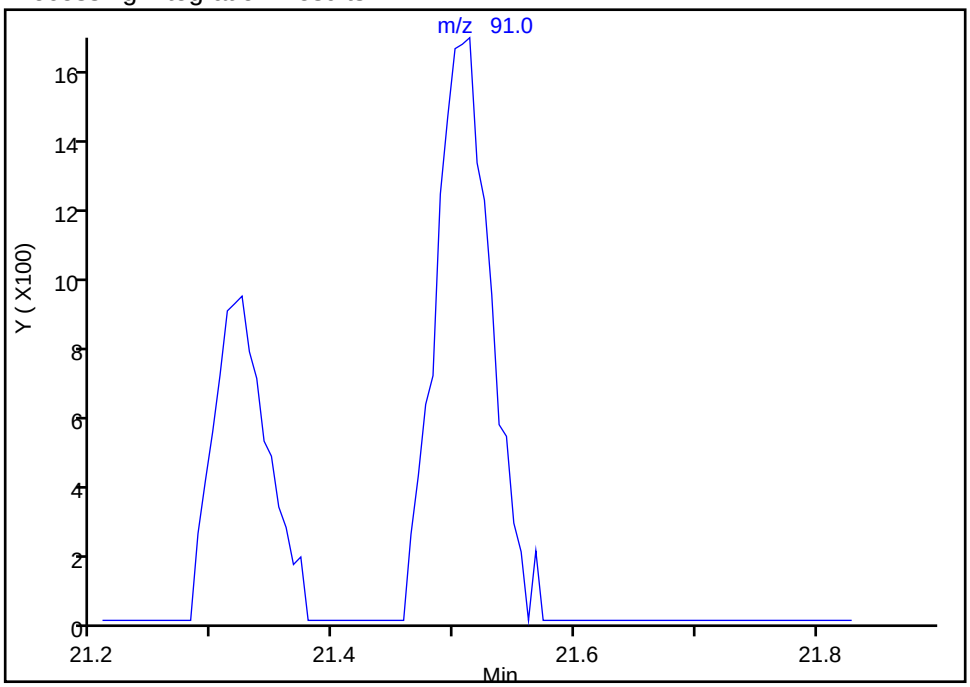
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040415.D				
Injection Date:	04-Apr-2018 22:29:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-5	Lab Sample ID:	320-37345-5		
Client ID:	776VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

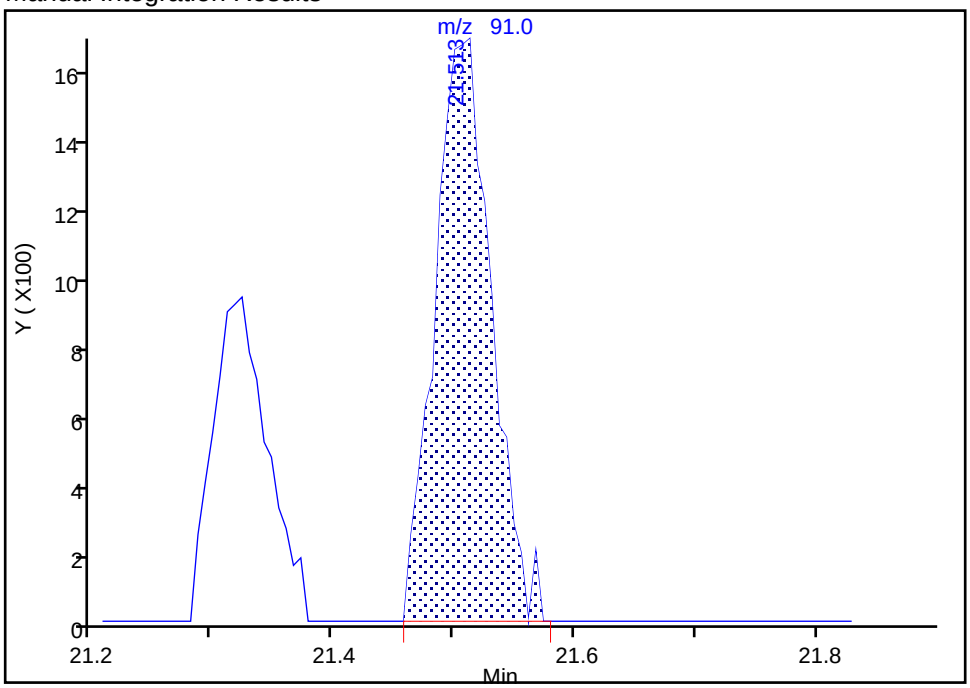
Not Detected
Expected RT: 21.51

Processing Integration Results



Manual Integration Results

RT: 21.51
Area: 5506
Amount: 0.179606
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 13:25:59
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-2_0318 | Lab Sample ID: 320-37345-6

Matrix: Air | Lab File ID: MS7040416.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 15:35

Sample wt/vol: 408(mL) | Date Analyzed: 04/04/2018 23:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	2.7		2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.7	J	3.3	1.6	0.55
67-64-1	Acetone	55		12	0.95	0.42
71-43-2	Benzene	0.62	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.58	J	1.5	0.98	0.46
74-87-3	Chloromethane	1.5	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-2_0318 | Lab Sample ID: 320-37345-6

Matrix: Air | Lab File ID: MS7040416.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 15:35

Sample wt/vol: 408(mL) | Date Analyzed: 04/04/2018 23:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216210 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.0	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.33	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.64	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.75	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.34	J	1.7	0.87	0.23
100-42-5	Styrene	0.41	J	1.7	0.85	0.25
127-18-4	Tetrachloroethene	0.40	J	2.7	1.4	0.35
108-88-3	Toluene	1.3	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.7	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D
Lims ID: 320-37345-A-6
Client ID: 776VMP-2_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 23:25:30 ALS Bottle#: 12 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-6
Misc. Info.: 408 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 14:37:14 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 14:37:14

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.217	12.235	-0.018	92	27461	4.00	
*	2 1,4-Difluorobenzene	114	14.377	14.389	-0.012	96	120667	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.057	21.069	-0.012	92	126923	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.423	-0.012	97	50425	4.43	
$	5 Toluene-d8 (Surr)	100	17.784	17.775	-0.006	97	83724	3.98	
$	6 4-Bromofluorobenzene (Surr	95	23.606	23.604	-0.012	86	92803	3.94	
	13 Dichlorodifluoromethane	85	3.901	3.901	-0.006	96	4528	0.4090	
	16 Chloromethane	50	4.357	4.351	0.000	97	4186	0.7054	
	26 Trichlorofluoromethane	101	6.371	6.386	-0.024	96	4674	0.3083	
	32 Acetone	43	7.296	7.297	-0.012	100	301403	23.4	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.466	7.467	-0.012	45	877	0.0704	
	39 Methylene Chloride	49	8.664	8.652	0.000	82	1941	0.1843	
	48 2-Butanone (MEK)	72	11.171	11.160	-0.006	93	3162	0.9010	
	53 Chloroform	83	11.944	11.944	-0.018	31	1649	0.1182	
	59 Carbon tetrachloride	117	13.458	13.477	-0.031	83	1801	0.1056	
	61 1,2-Dichloroethane	62	13.623	13.623	-0.012	1	662	0.0586	
	63 Benzene	78	13.750	13.751	-0.012	93	4393	0.1941	
	71 4-Methyl-2-pentanone (MIBK	43	16.786	16.760	0.012	96	14269	0.4202	
	75 Toluene	91	17.960	17.951	-0.006	92	10730	0.3369	
	78 2-Hexanone	58	18.739	18.698	0.031	1	1011	0.0655	
	80 Tetrachloroethene	166	19.475	19.464	0.000	67	972	0.0589	
	86 Ethylbenzene	91	21.312	21.312	-0.012	92	3336	0.0751	
	87 m-Xylene & p-Xylene	91	21.495	21.494	-0.012	47	5929	0.1726	
	88 o-Xylene	91	22.401	22.394	-0.006	93	2663	0.0779	
	89 Styrene	104	22.444	22.425	0.006	89	2527	0.0958	

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

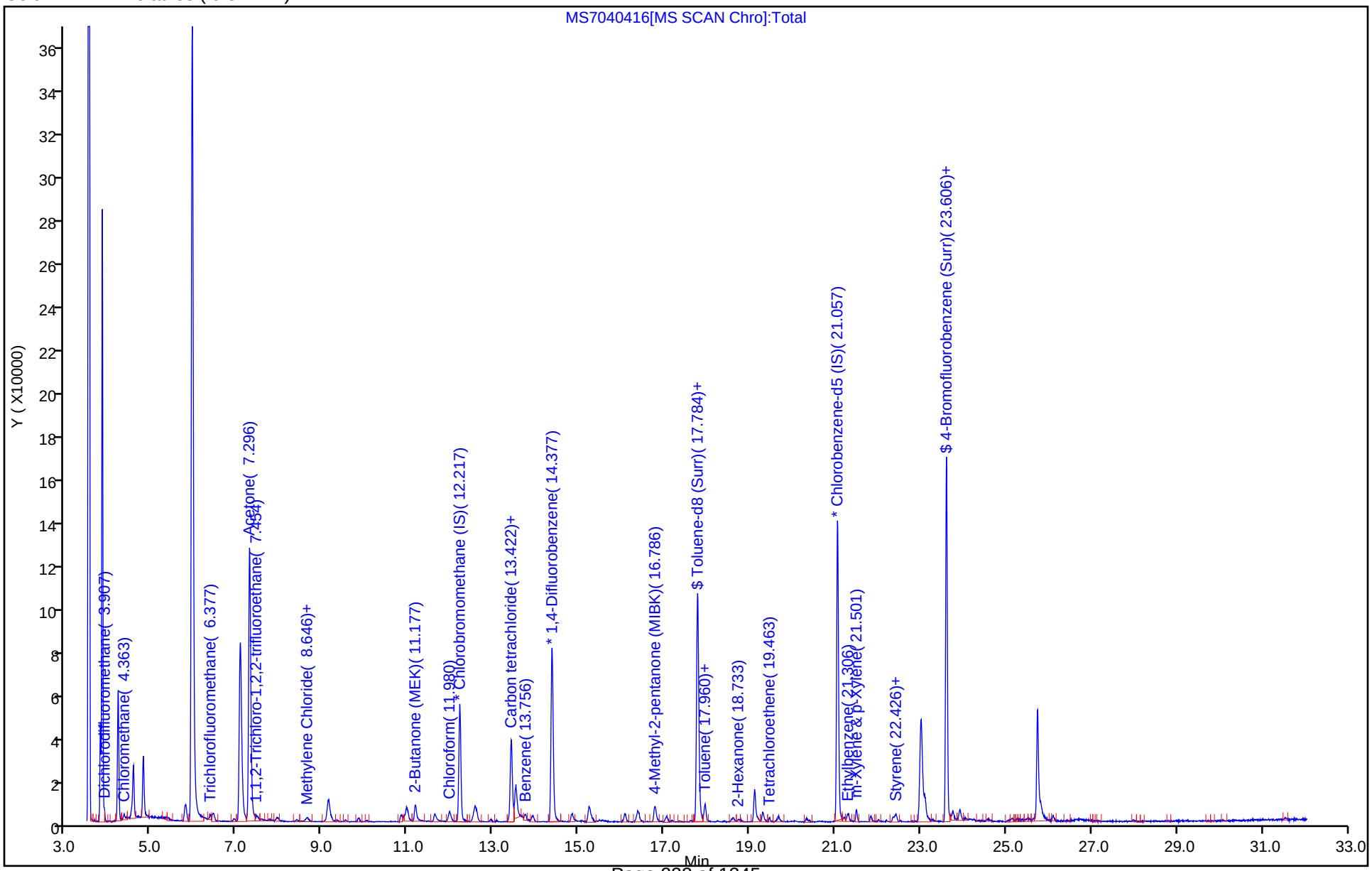
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6	Worklist Smp#:	16
Client ID:	776VMP-2_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D
Lims ID: 320-37345-A-6
Client ID: 776VMP-2_0318
Sample Type: Client
Inject. Date: 04-Apr-2018 23:25:30 ALS Bottle#: 12 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-6
Misc. Info.: 408 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 14:37:14 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 14:37:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.43	110.77
$ 5 Toluene-d8 (Surr)	4.00	3.98	99.58
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.94	98.40

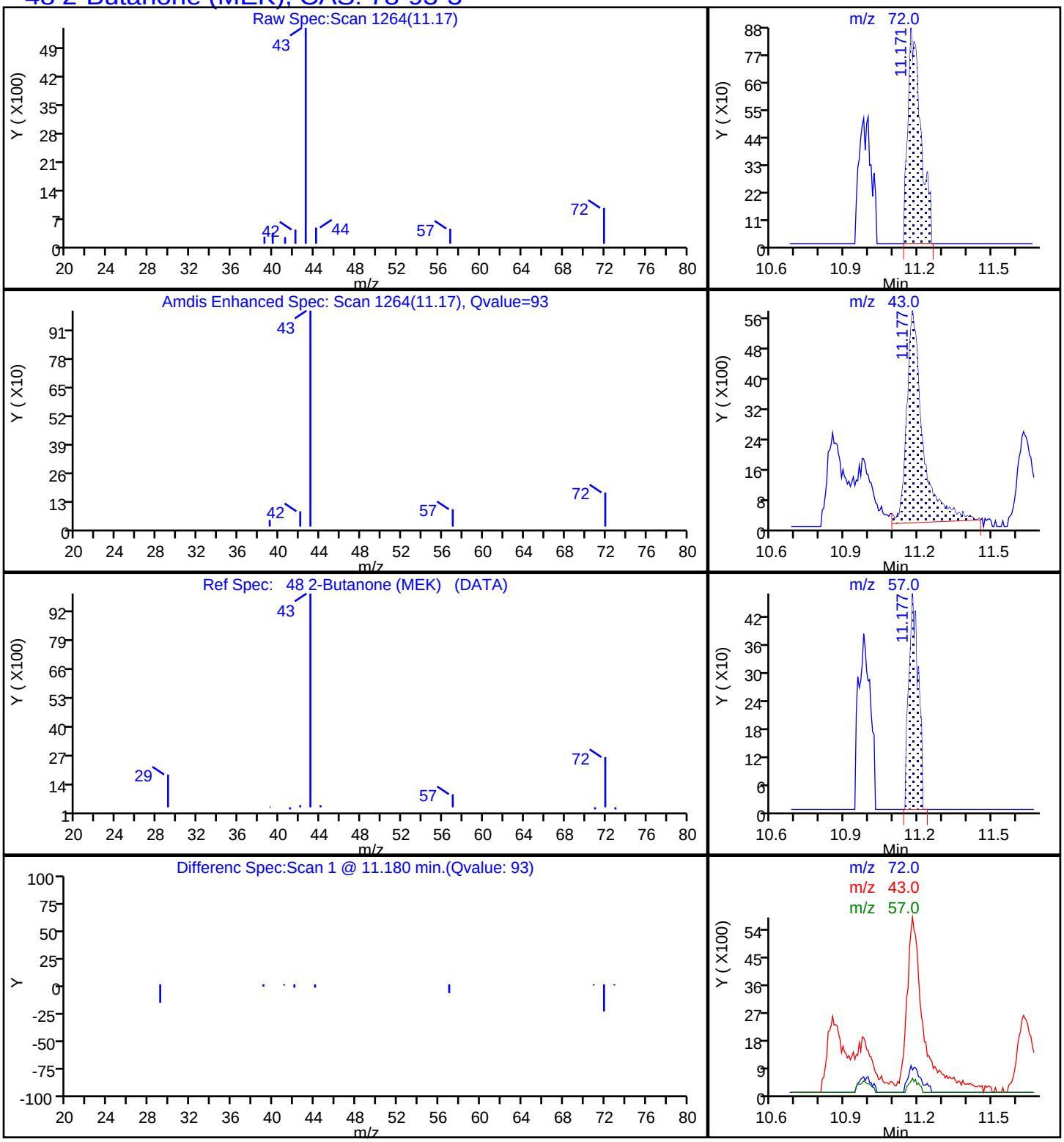
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



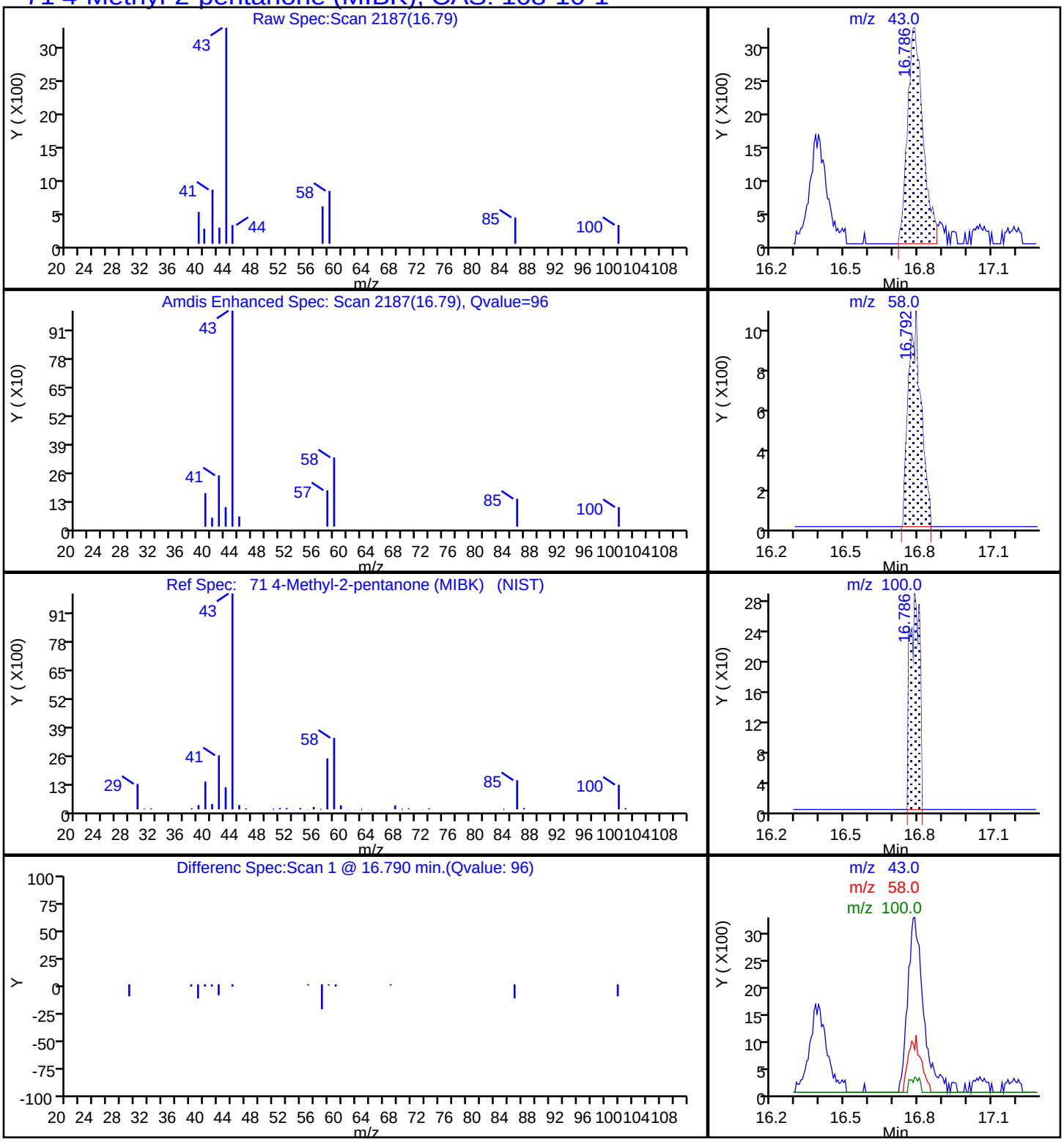
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

71 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



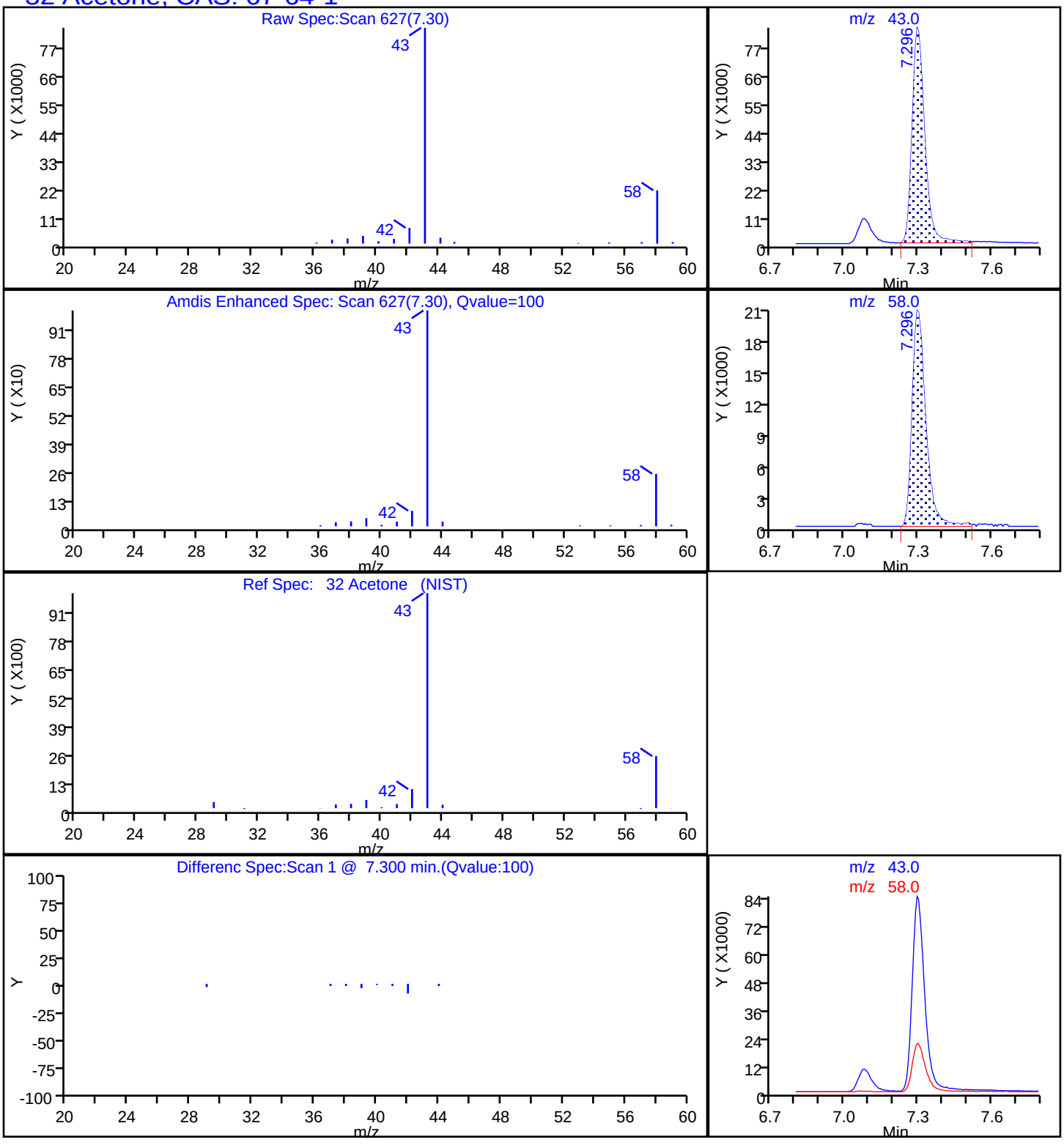
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

32 Acetone, CAS: 67-64-1



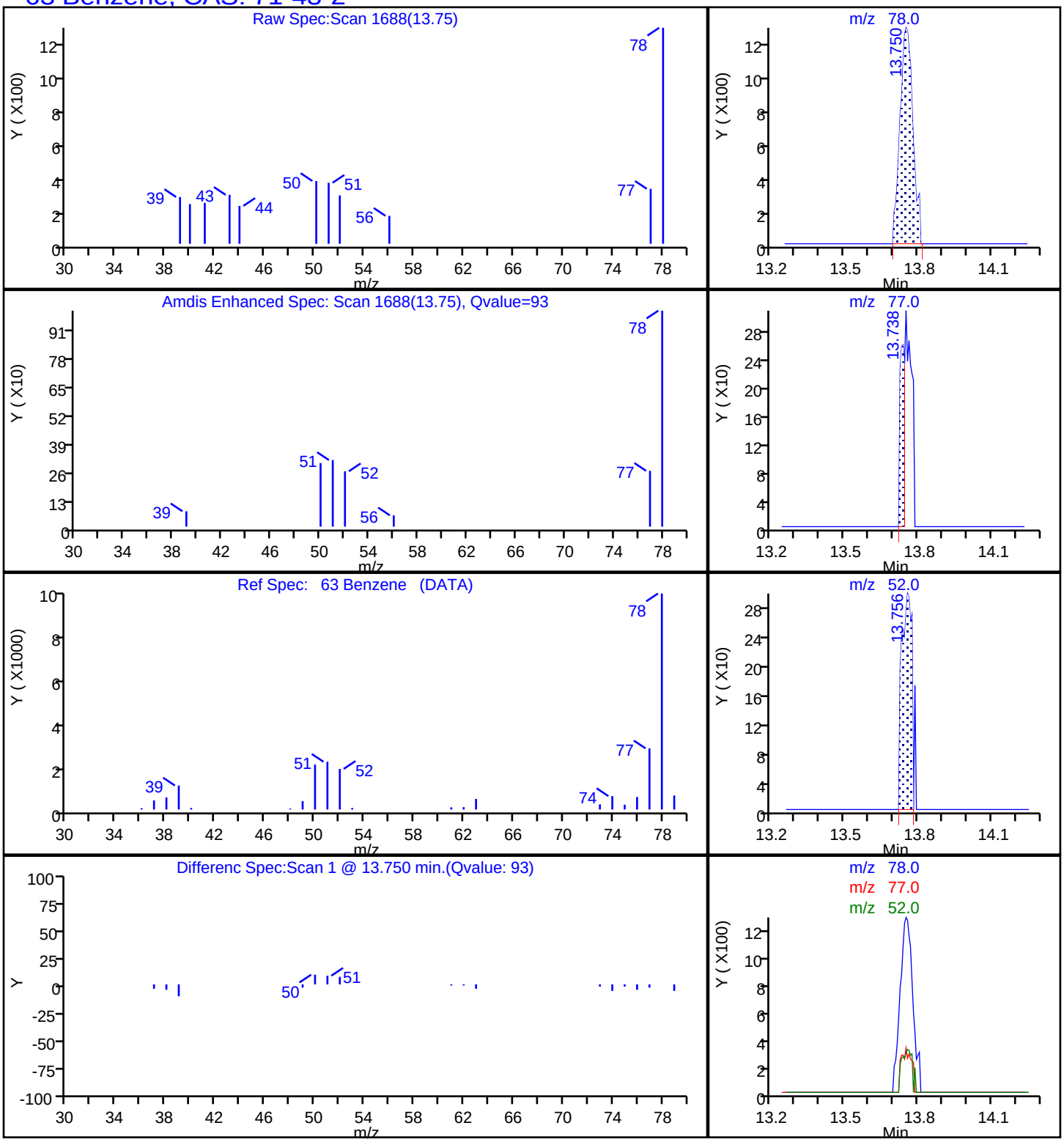
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



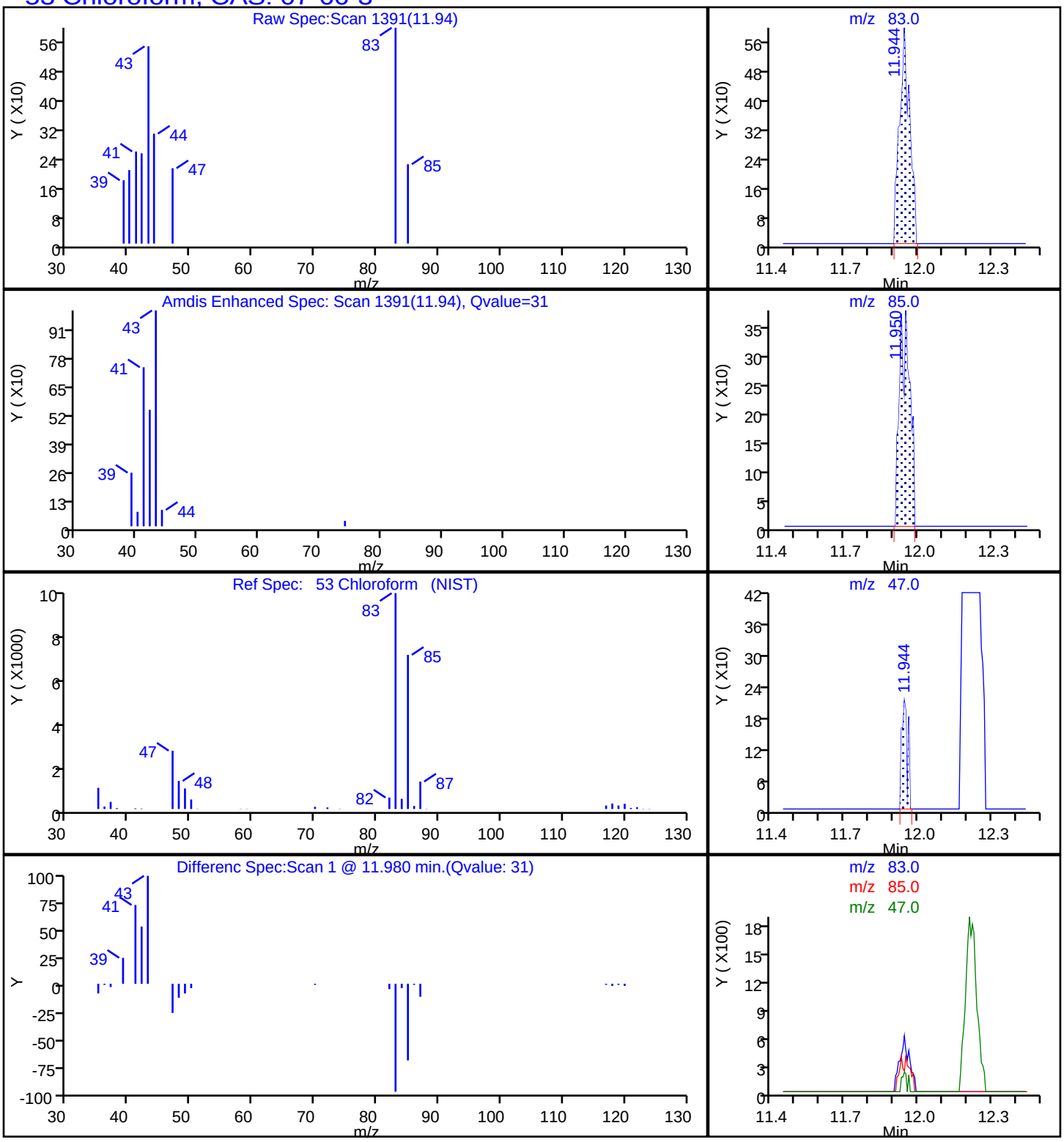
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TestAmerica Sacramento

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Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



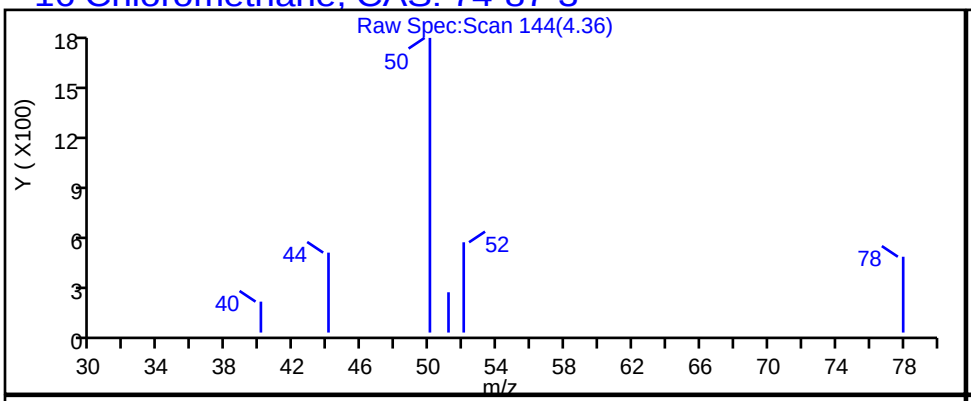
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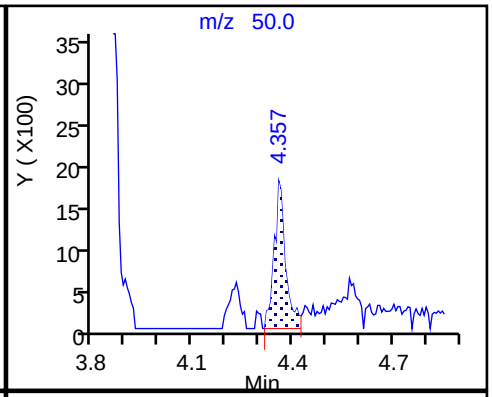
TestAmerica Sacramento

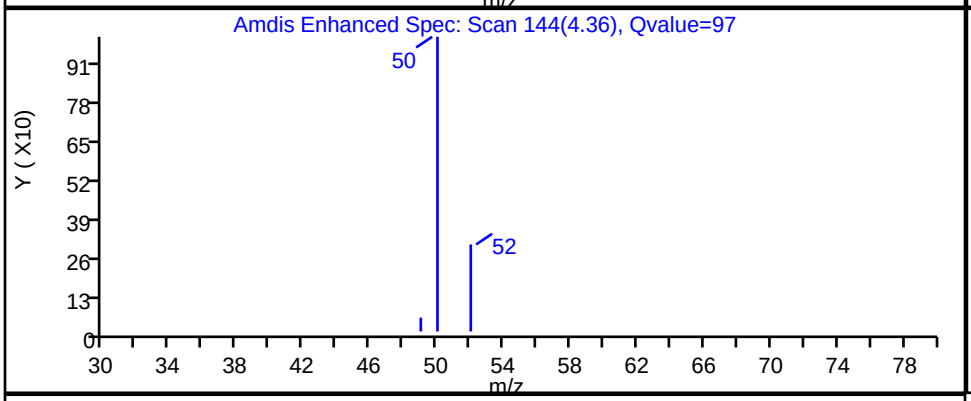
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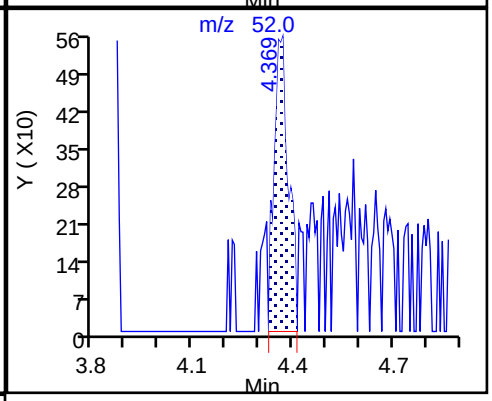
Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6		
Client ID:	776VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

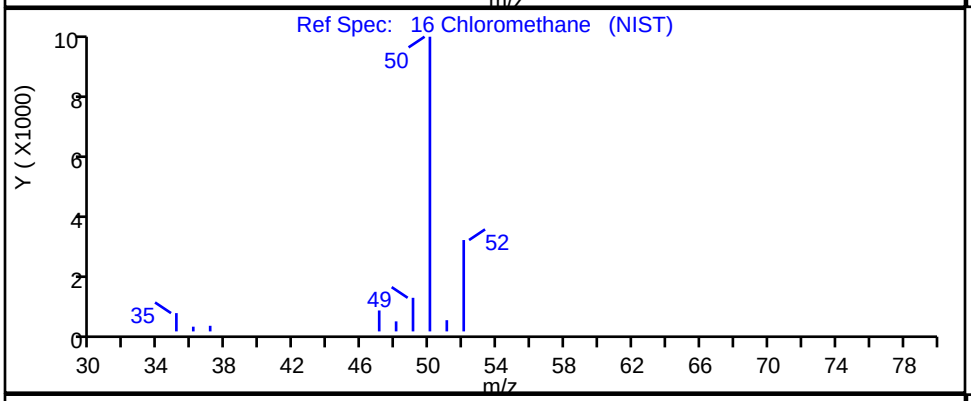
16 Chloromethane, CAS: 74-87-3

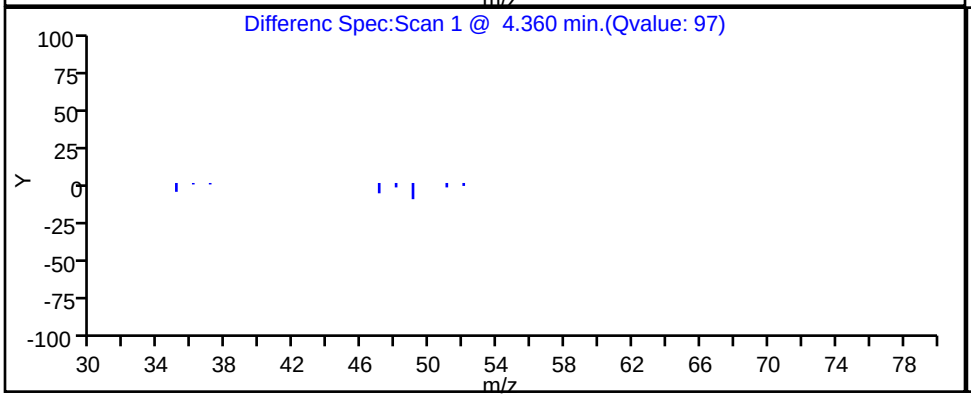


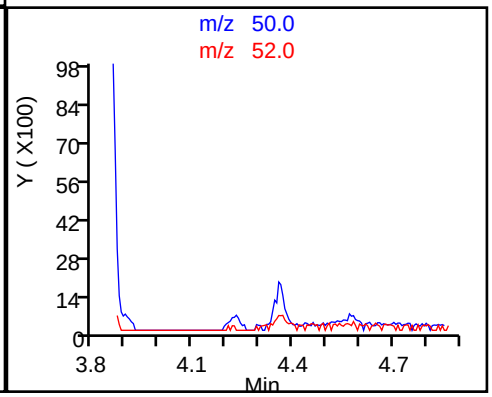












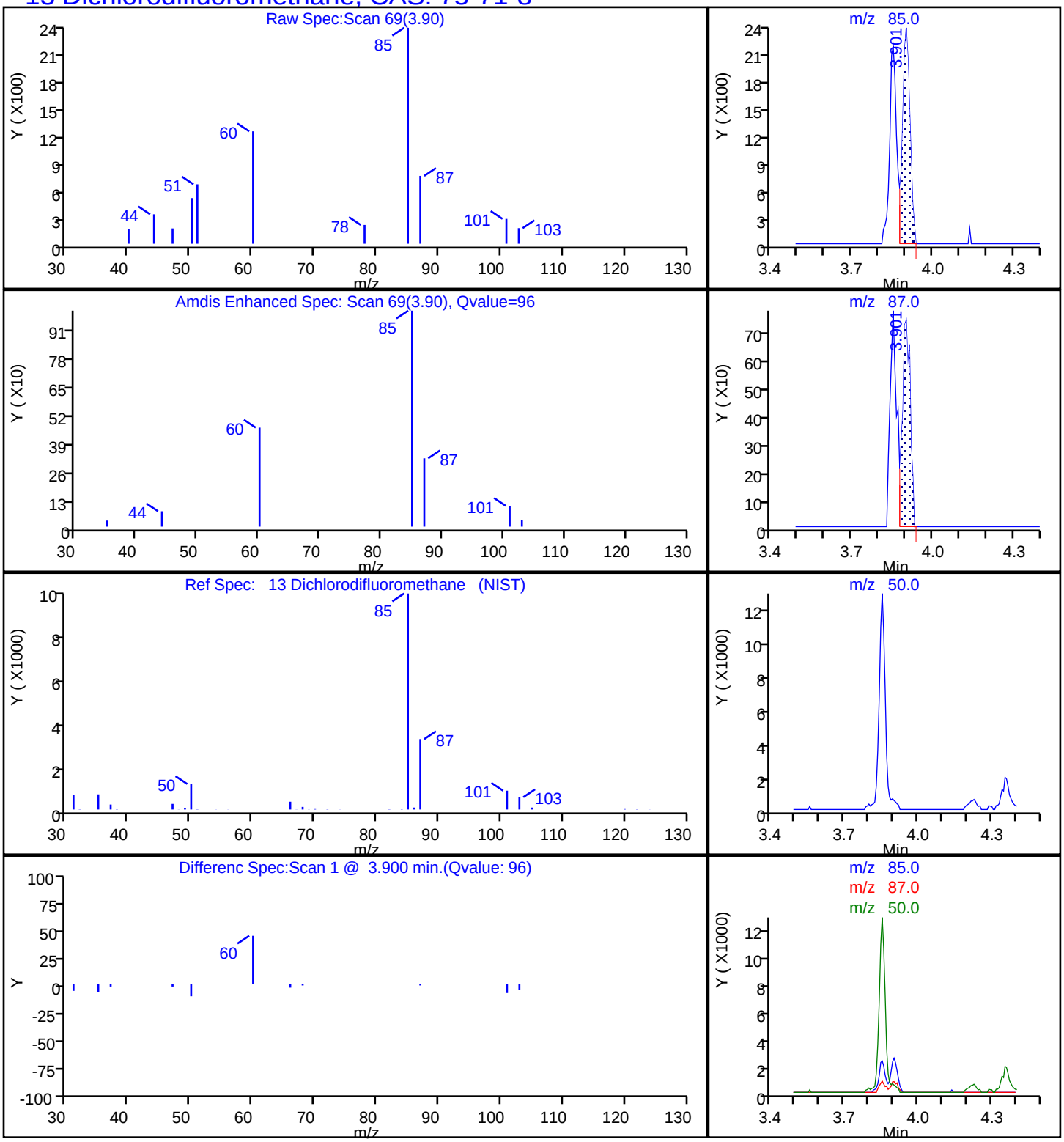
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



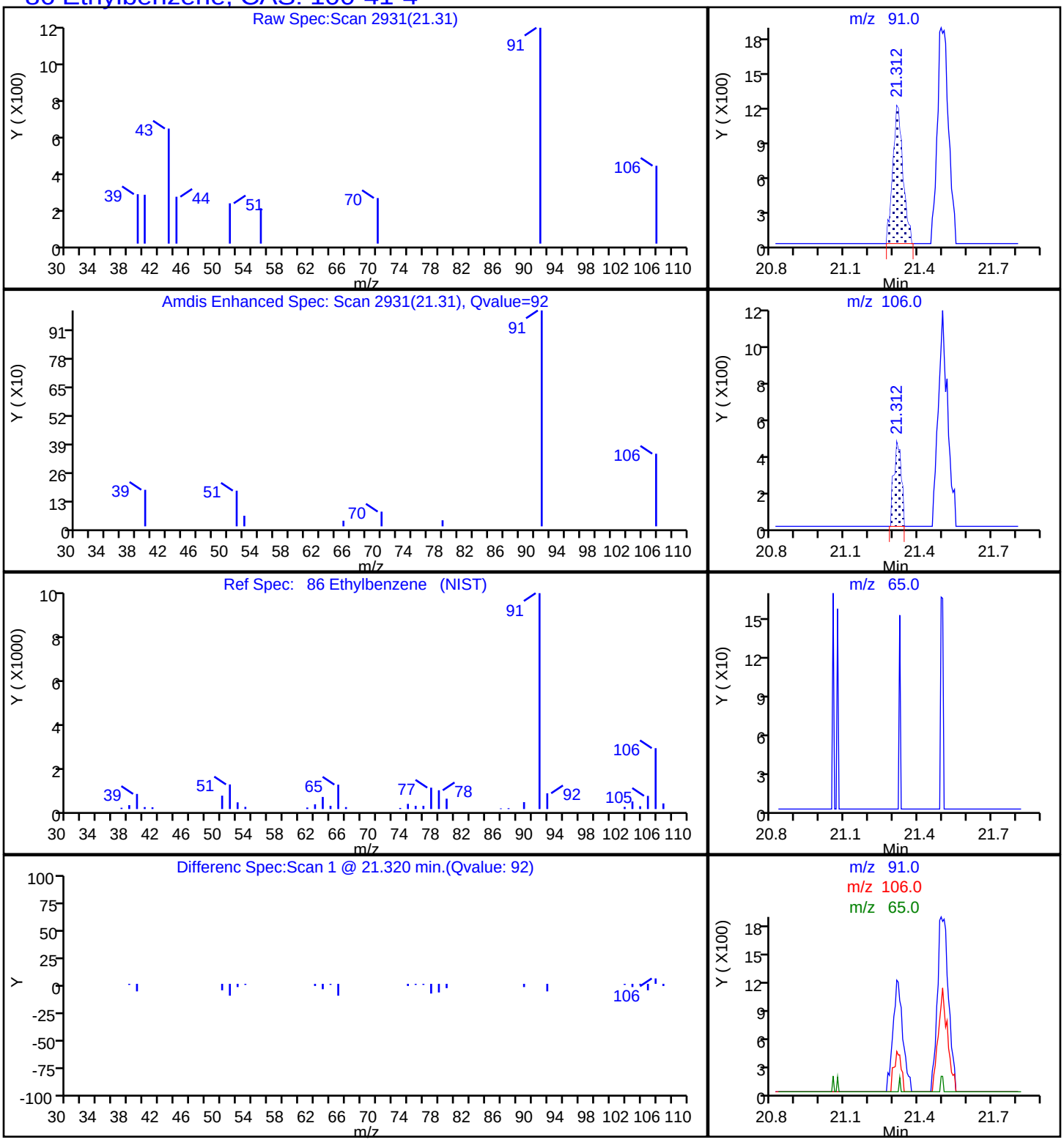
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



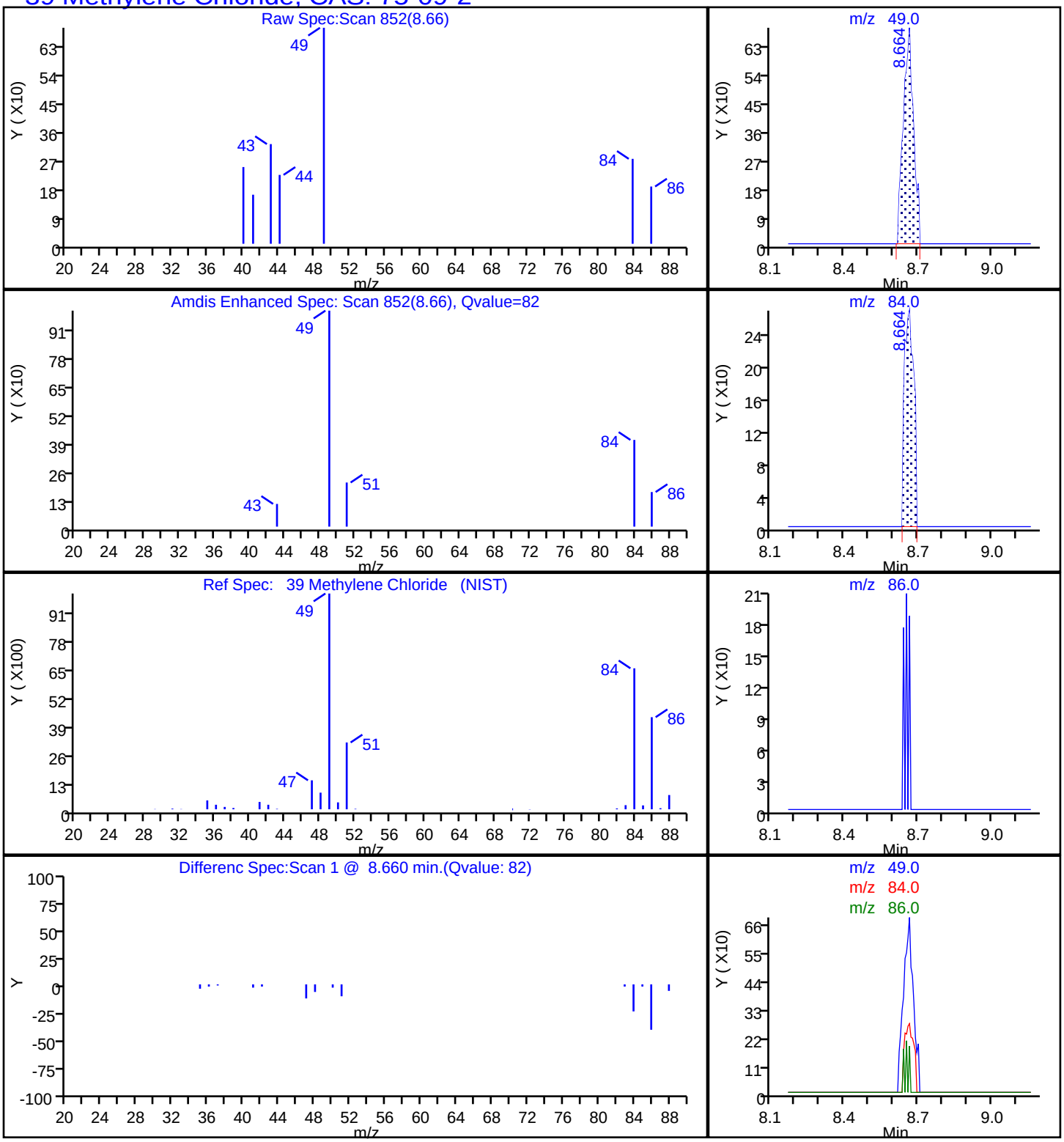
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



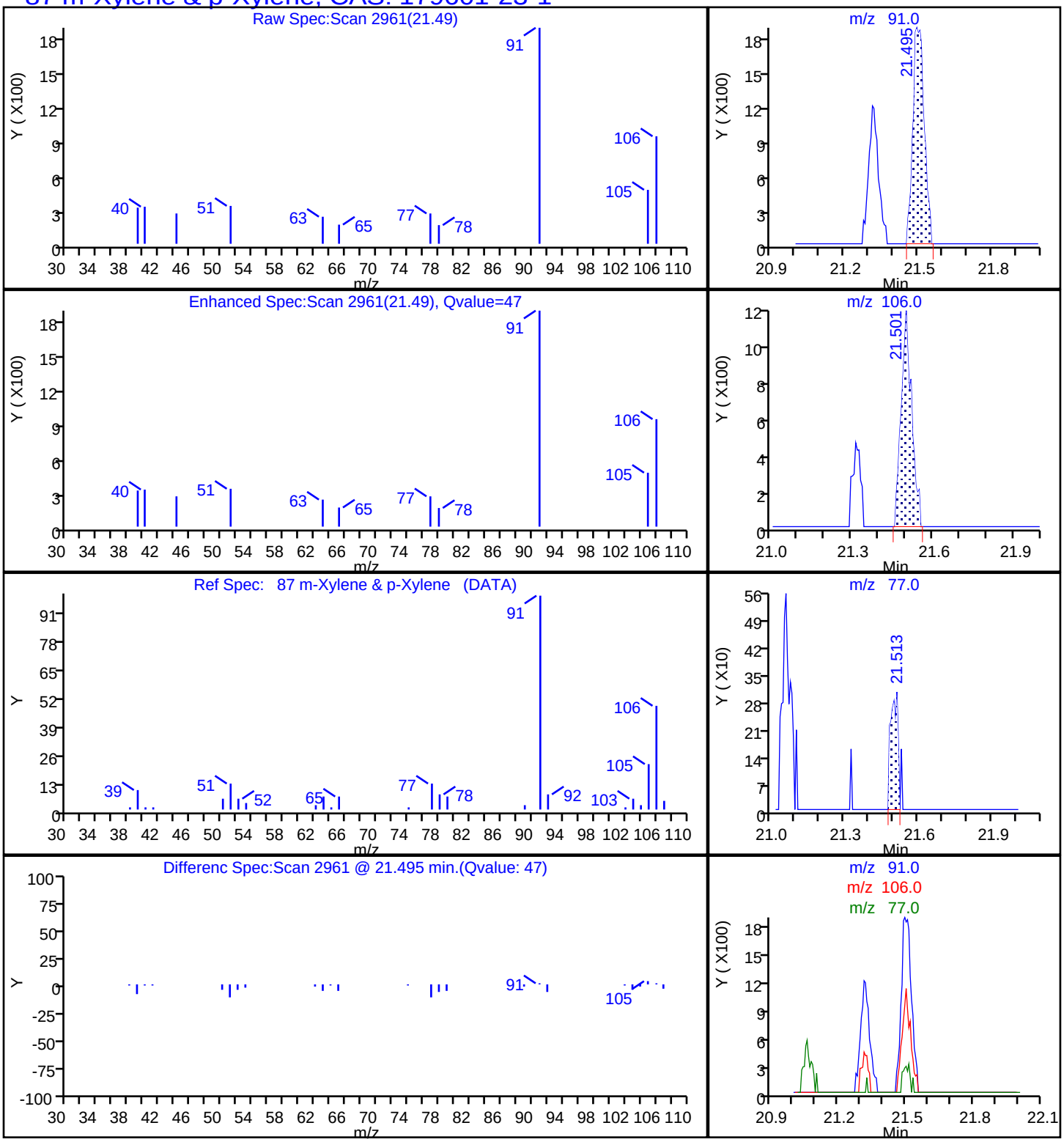
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6		
Client ID:	776VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1



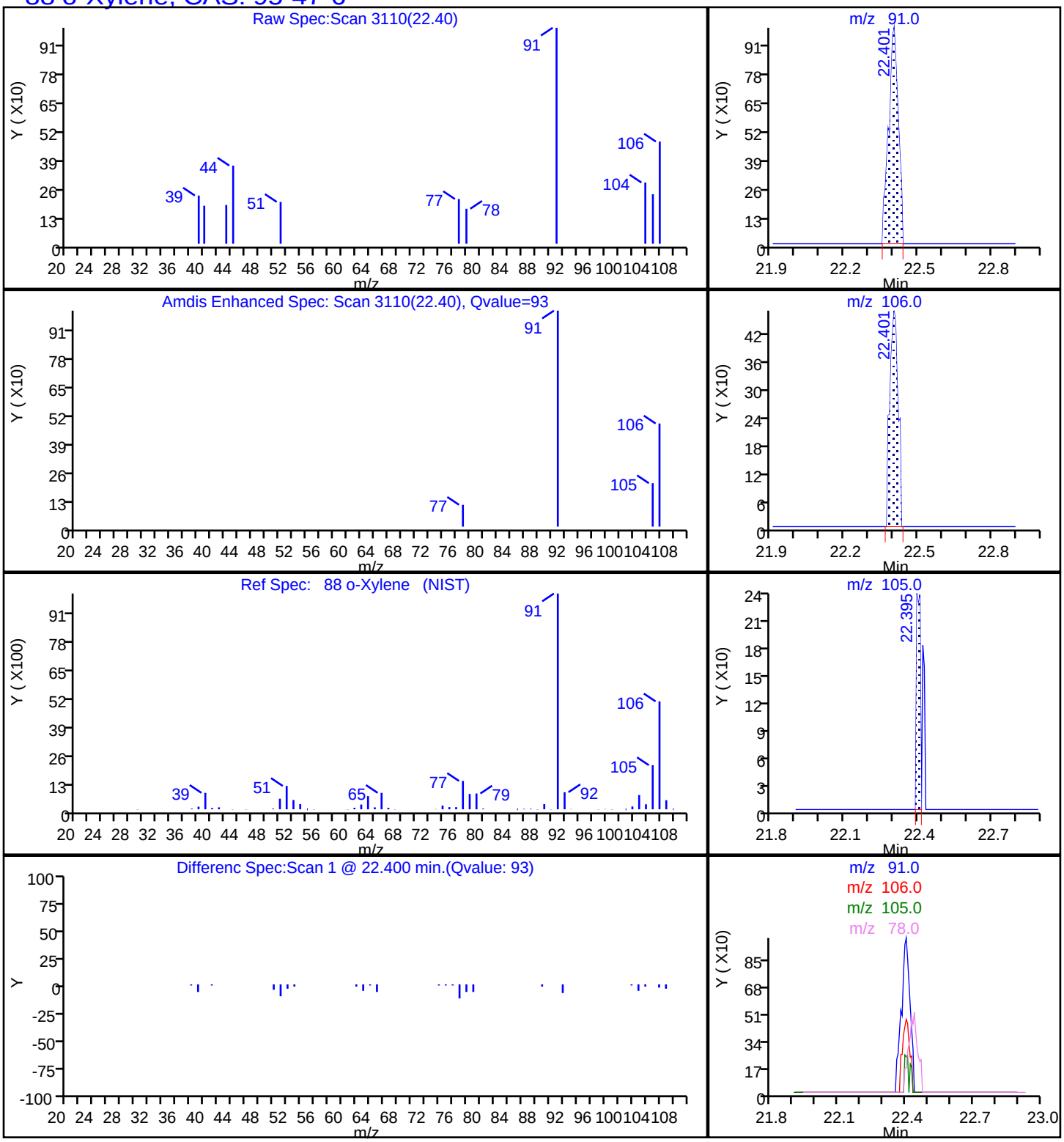
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



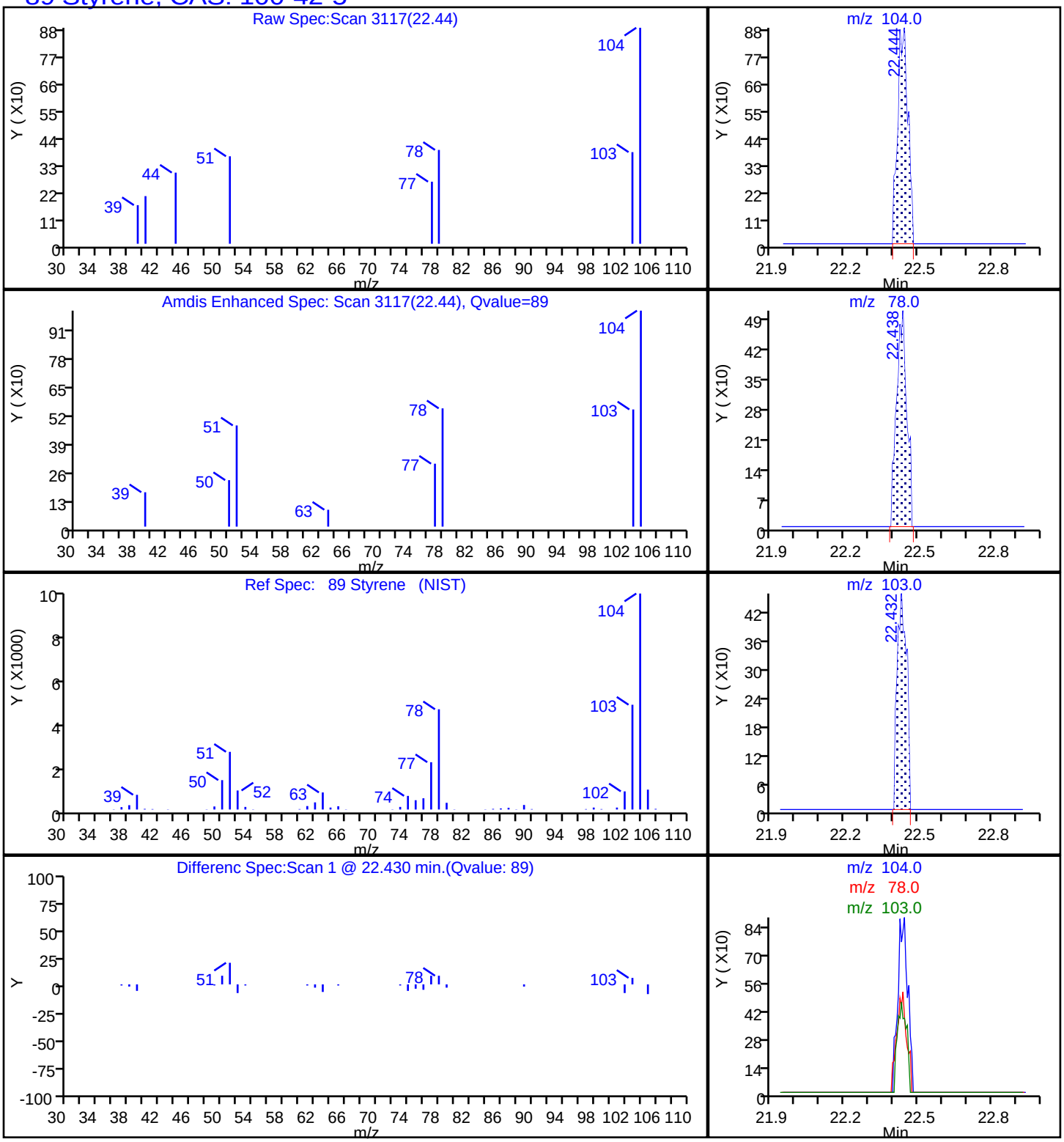
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

89 Styrene, CAS: 100-42-5



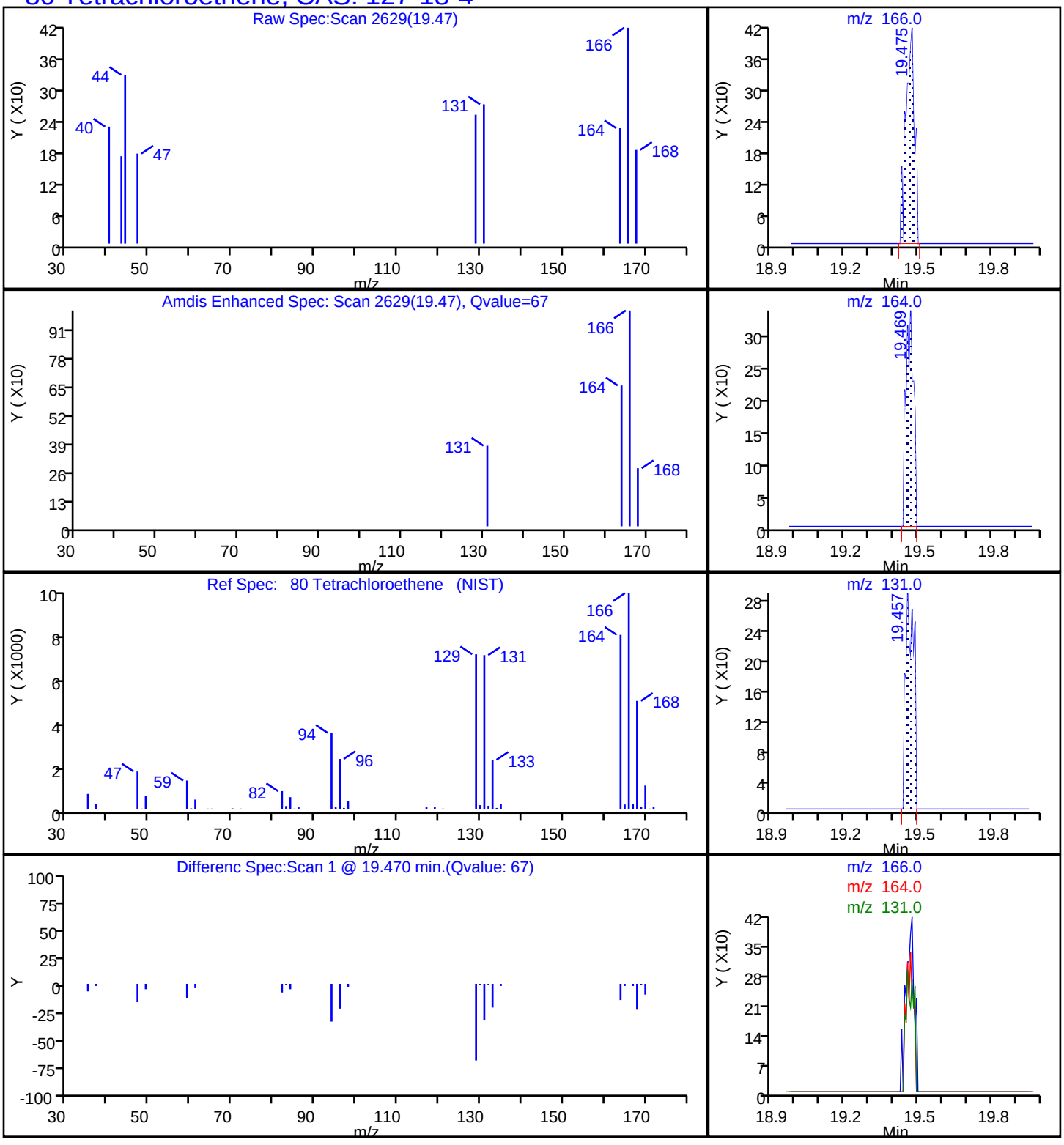
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



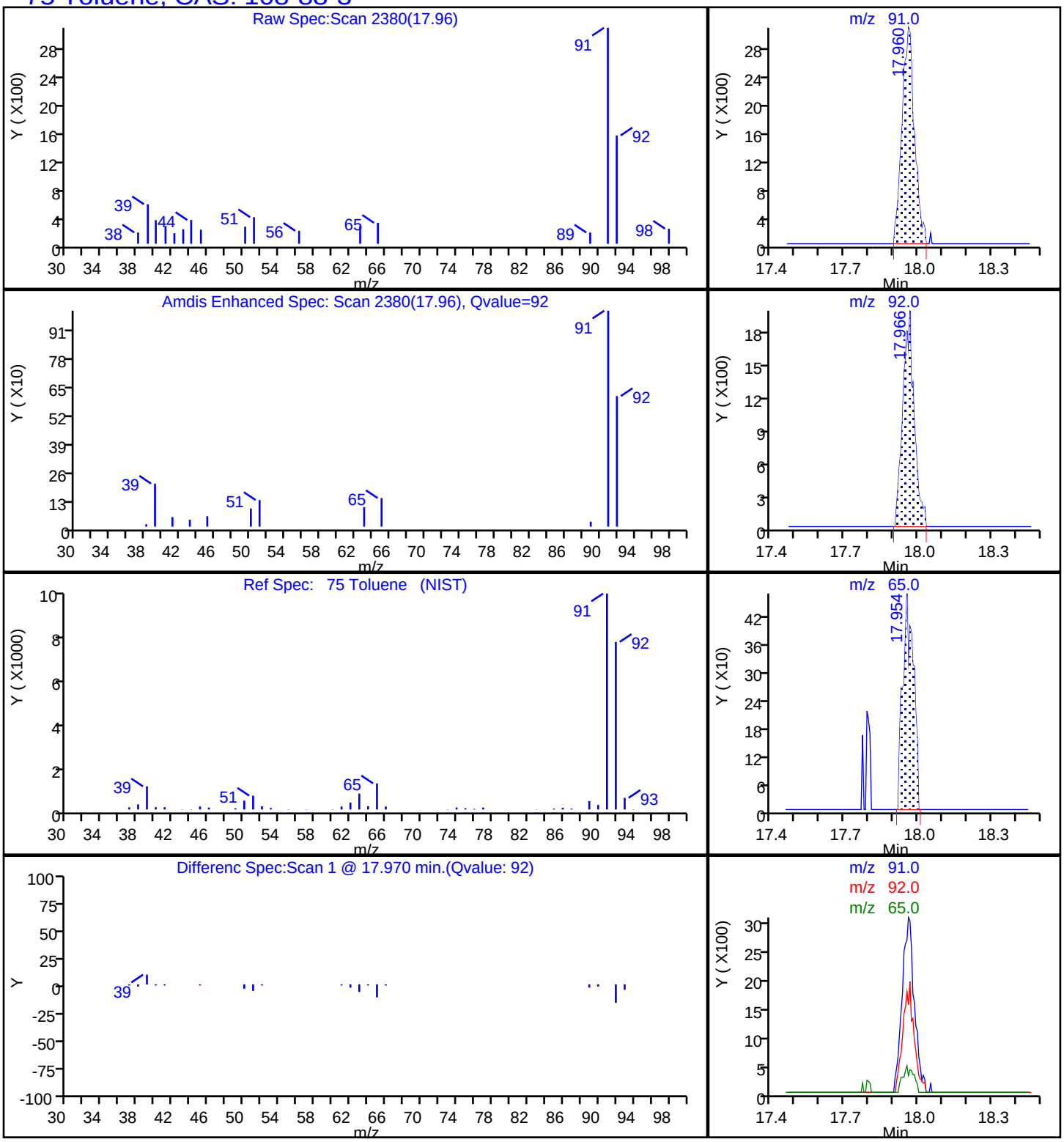
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



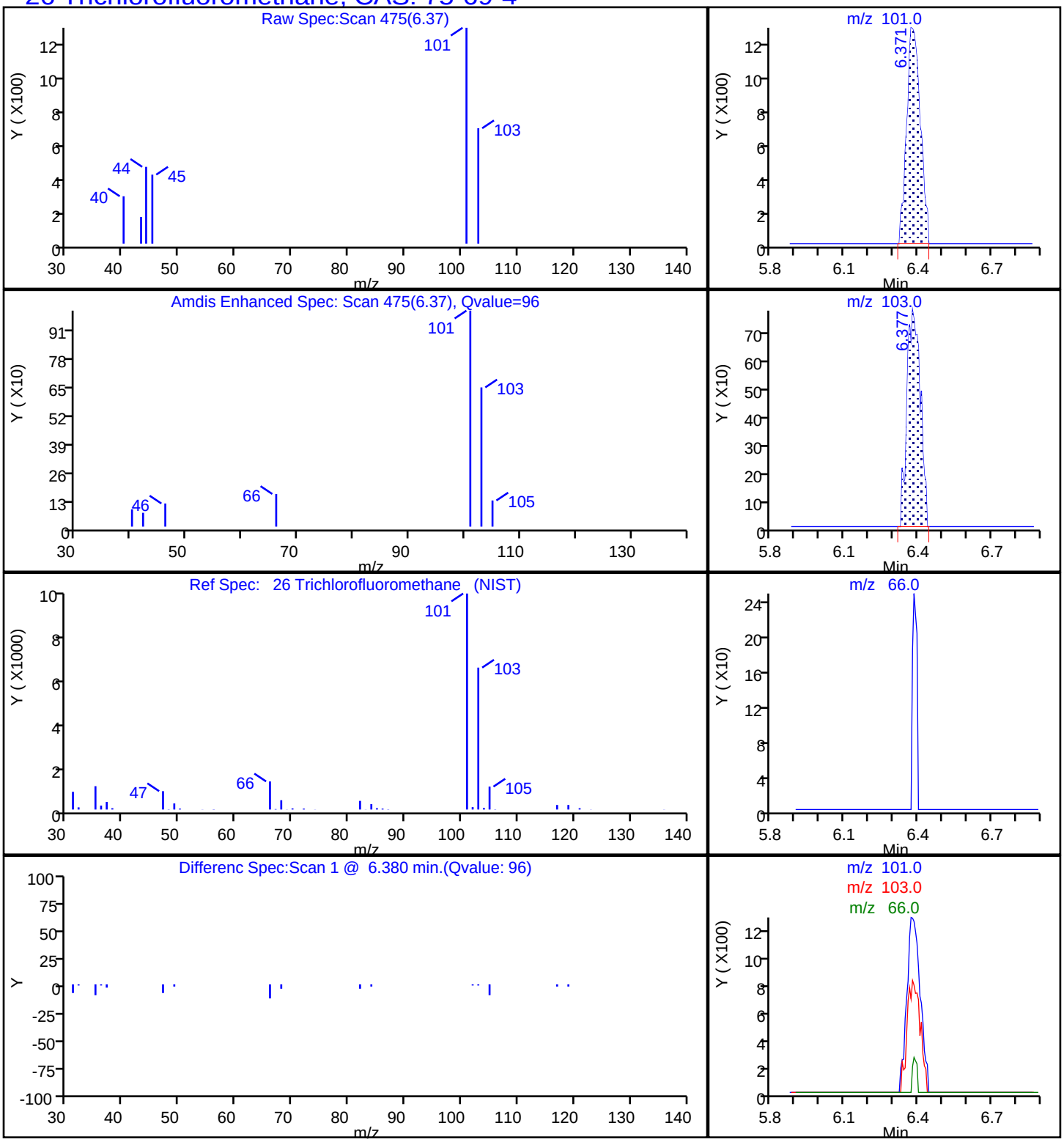
Report Date: 05-Apr-2018 14:37:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D

Injection Date:	04-Apr-2018 23:25:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-6	Lab Sample ID:	320-37345-6
Client ID:	776VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



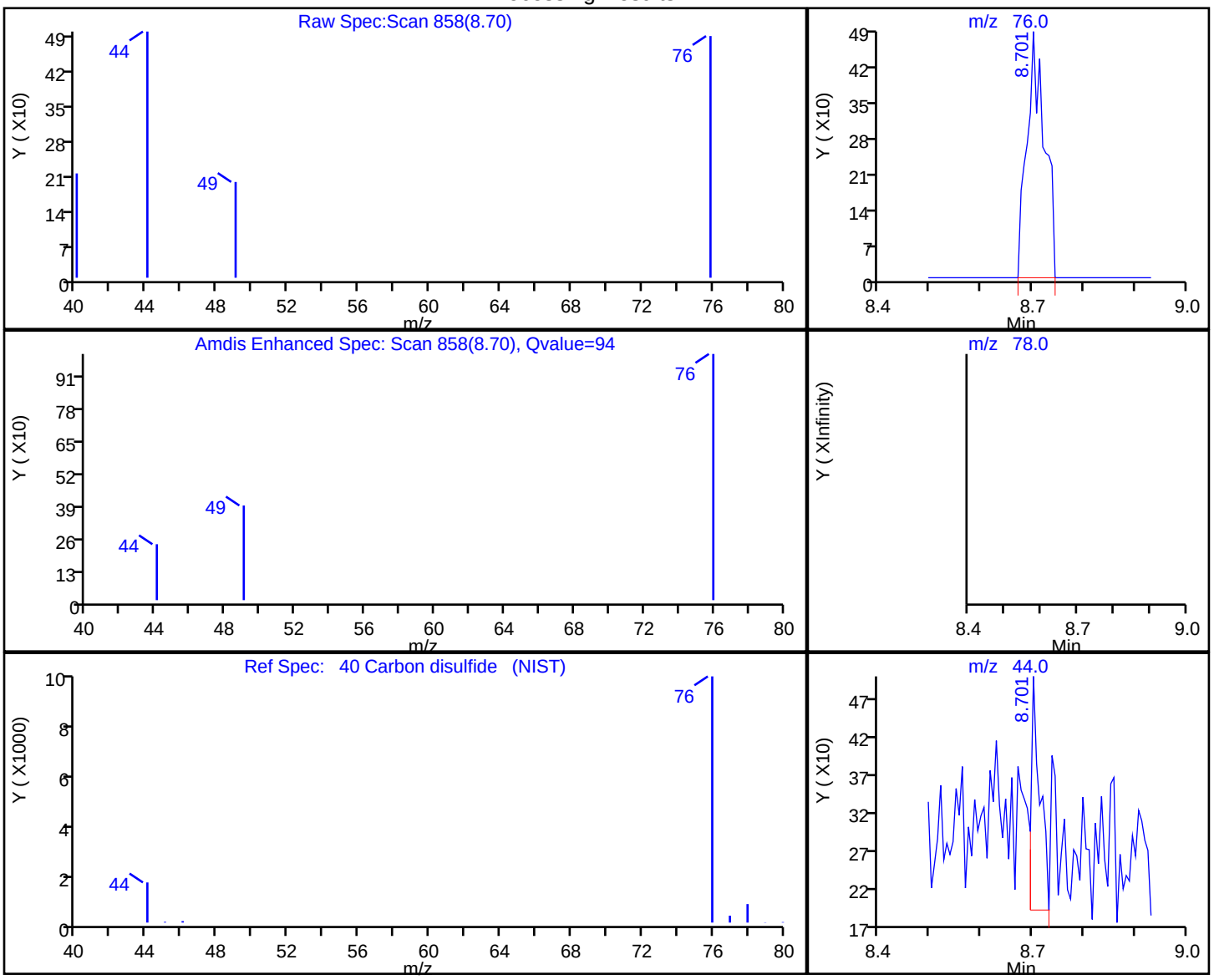
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040416.D
Injection Date: 04-Apr-2018 23:25:30 Instrument ID: ATMS7
Lims ID: 320-37345-A-6 Lab Sample ID: 320-37345-6
Client ID: 776VMP-2_0318
Operator ID: LHS ALS Bottle#: 12 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.70	76.00	1157	0.089771
8.71	78.00	0	
8.70	44.00	352	

Reviewer: phanthasena, 05-Apr-2018 14:37:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-2_0318-a Lab Sample ID: 320-37345-7

Matrix: Air Lab File ID: MS7040418.D

Analysis Method: TO-15 Date Collected: 03/21/2018 15:35

Sample wt/vol: 409(mL) Date Analyzed: 04/05/2018 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U M	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	2.3	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.5	J	3.3	1.6	0.55
67-64-1	Acetone	53		12	0.95	0.42
71-43-2	Benzene	0.61	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.53	J	1.5	0.98	0.46
74-87-3	Chloromethane	1.4	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-2_0318-a Lab Sample ID: 320-37345-7

Matrix: Air Lab File ID: MS7040418.D

Analysis Method: TO-15 Date Collected: 03/21/2018 15:35

Sample wt/vol: 409(mL) Date Analyzed: 04/05/2018 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.0	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.87	U	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.59	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.87	U	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	1.1	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.8	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
460-00-4	4-Bromofluorobenzene (Surr)	84		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D
Lims ID: 320-37345-A-7
Client ID: 776VMP-2_0318-a
Sample Type: Client
Inject. Date: 05-Apr-2018 01:16:30 ALS Bottle#: 14 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-7
Misc. Info.: 409 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 15:59:59 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 15:59:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.217	12.235	-0.018	92	27321	4.00	
* 2 1,4-Difluorobenzene	114	14.377	14.389	-0.012	96	119269	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.057	21.069	-0.012	92	110382	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.416	13.422	-0.018	98	49509	4.40	
$ 5 Toluene-d8 (Surr)	100	17.784	17.775	-0.006	97	78852	3.80	
$ 6 4-Bromofluorobenzene (Surr	95	23.599	23.604	-0.019	87	69023	3.37	
13 Dichlorodifluoromethane	85	3.907	3.901	0.000	97	4421	0.4014	
16 Chloromethane	50	4.363	4.351	0.006	97	4049	0.6858	
26 Trichlorofluoromethane	101	6.377	6.386	-0.018	98	4789	0.3175	
32 Acetone	43	7.302	7.297	-0.006	100	285025	22.2	
33 1,1,2-Trichloro-1,2,2-trif	101	7.460	7.467	-0.018	75	1186	0.0957	
39 Methylene Chloride	49	8.658	8.651	-0.006	33	1792	0.1711	
48 2-Butanone (MEK)	72	11.189	11.160	0.012	93	2696	0.7721	
53 Chloroform	83	11.937	11.944	-0.025	67	1517	0.1093	
59 Carbon tetrachloride	117	13.476	13.477	-0.013	30	1435	0.0852	
63 Benzene	78	13.744	13.751	-0.018	93	4266	0.1907	
71 4-Methyl-2-pentanone (MIBK	43	16.774	16.759	0.000	97	12538	0.3735	
75 Toluene	91	17.954	17.951	-0.012	90	9350	0.2970	
86 Ethylbenzene	91	21.306	21.312	-0.018	89	2081	0.0539	
87 m-Xylene & p-Xylene	91	21.495	21.494	-0.012	6	2431	0.0814	

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

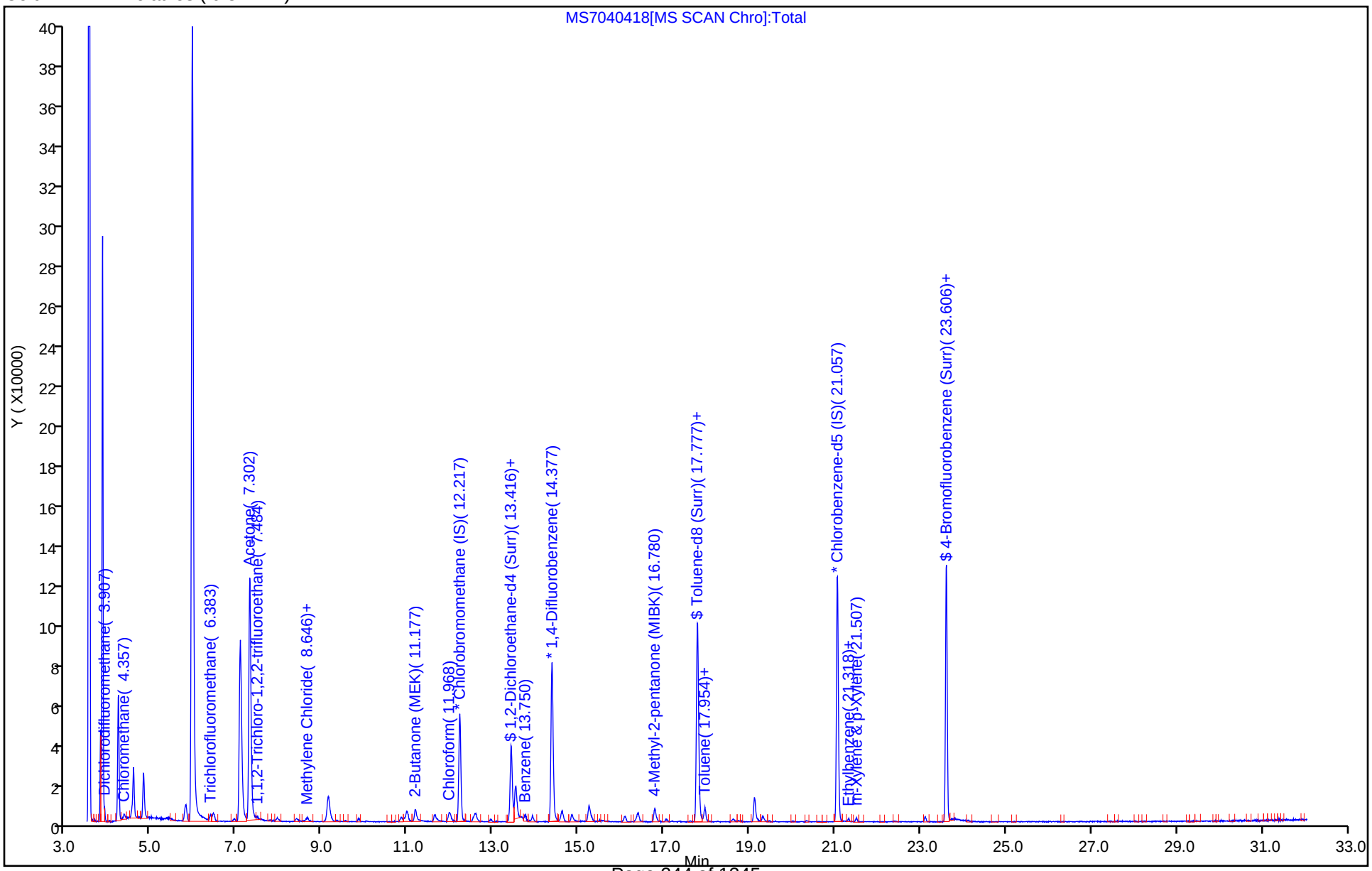
Report Date: 05-Apr-2018 15:59:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7	Worklist Smp#:	18
Client ID:	776VMP-2_0318-a				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D
Lims ID: 320-37345-A-7
Client ID: 776VMP-2_0318-a
Sample Type: Client
Inject. Date: 05-Apr-2018 01:16:30 ALS Bottle#: 14 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-7
Misc. Info.: 409 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 15:59:59 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 15:59:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.40	110.03
$ 5 Toluene-d8 (Surr)	4.00	3.80	94.89
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.37	84.16

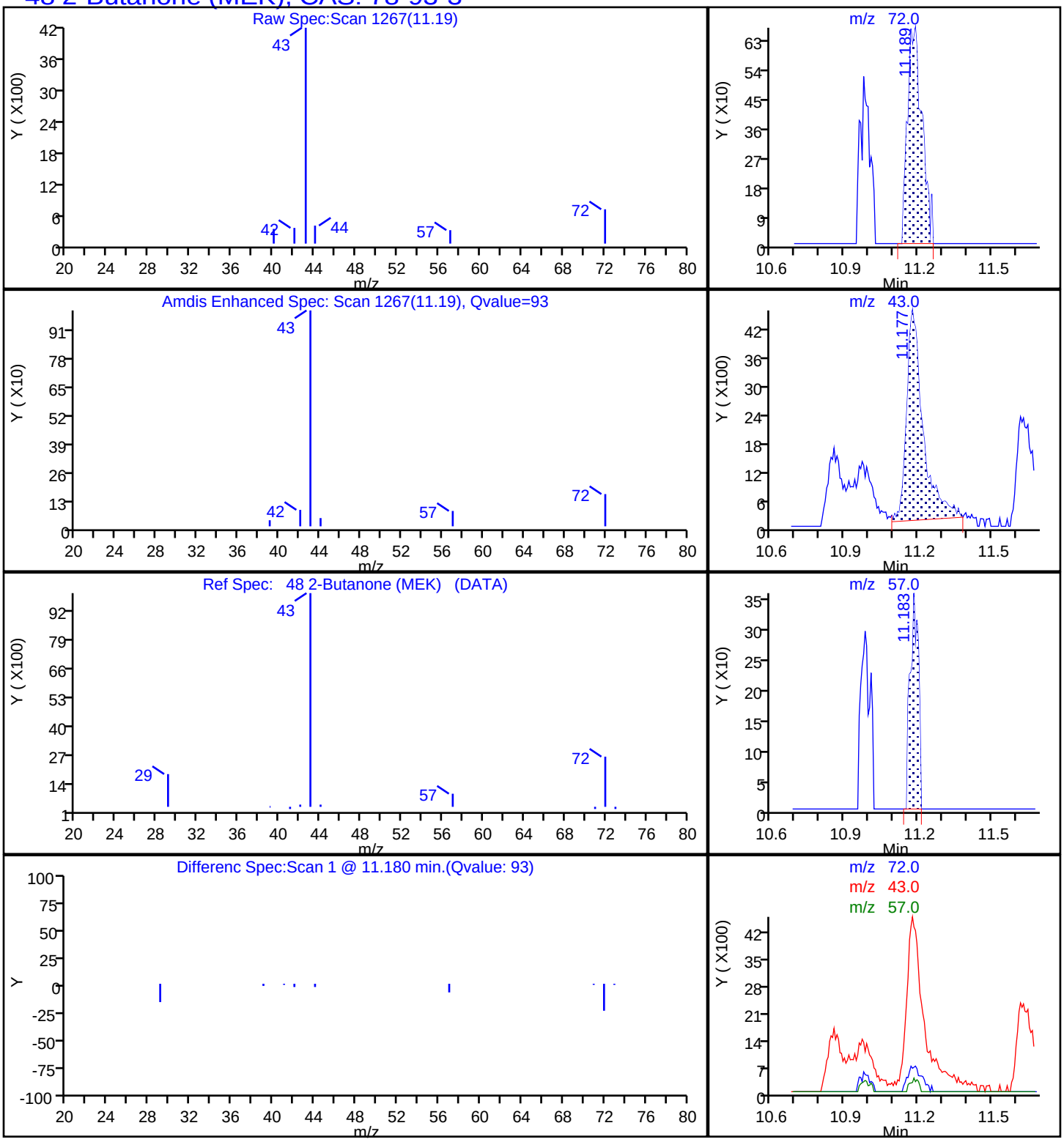
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



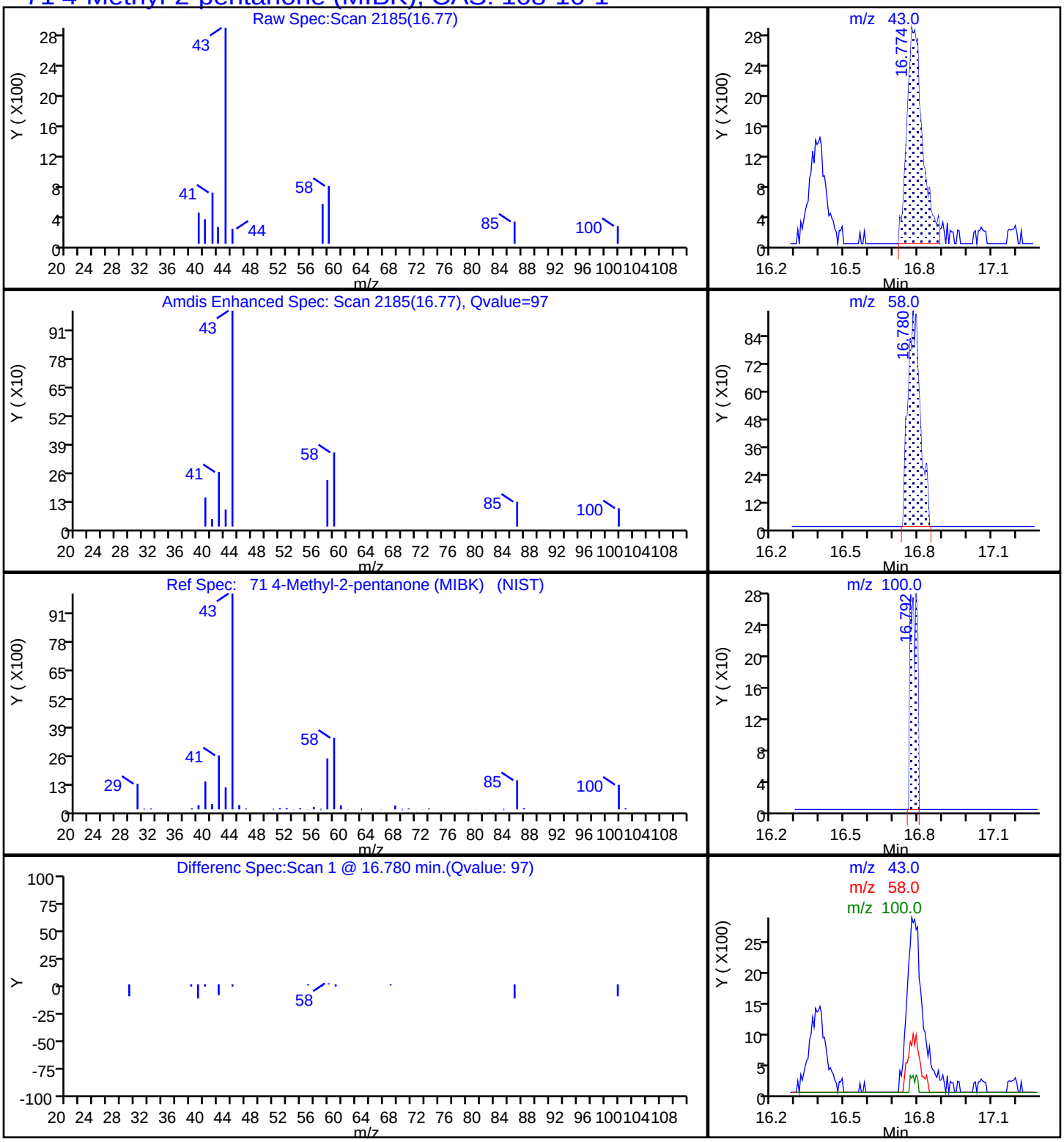
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

71 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



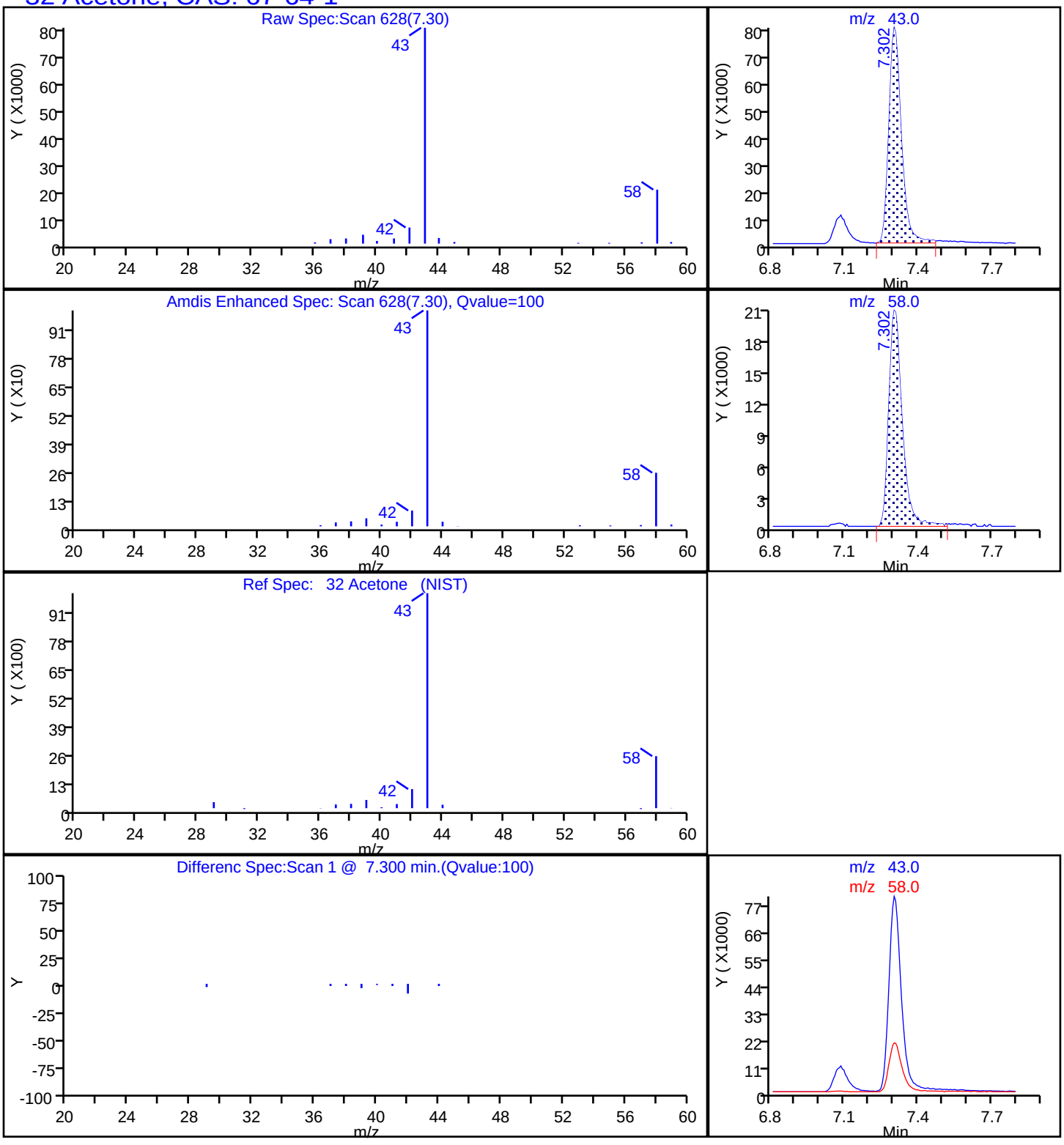
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7		
Client ID:	776VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1



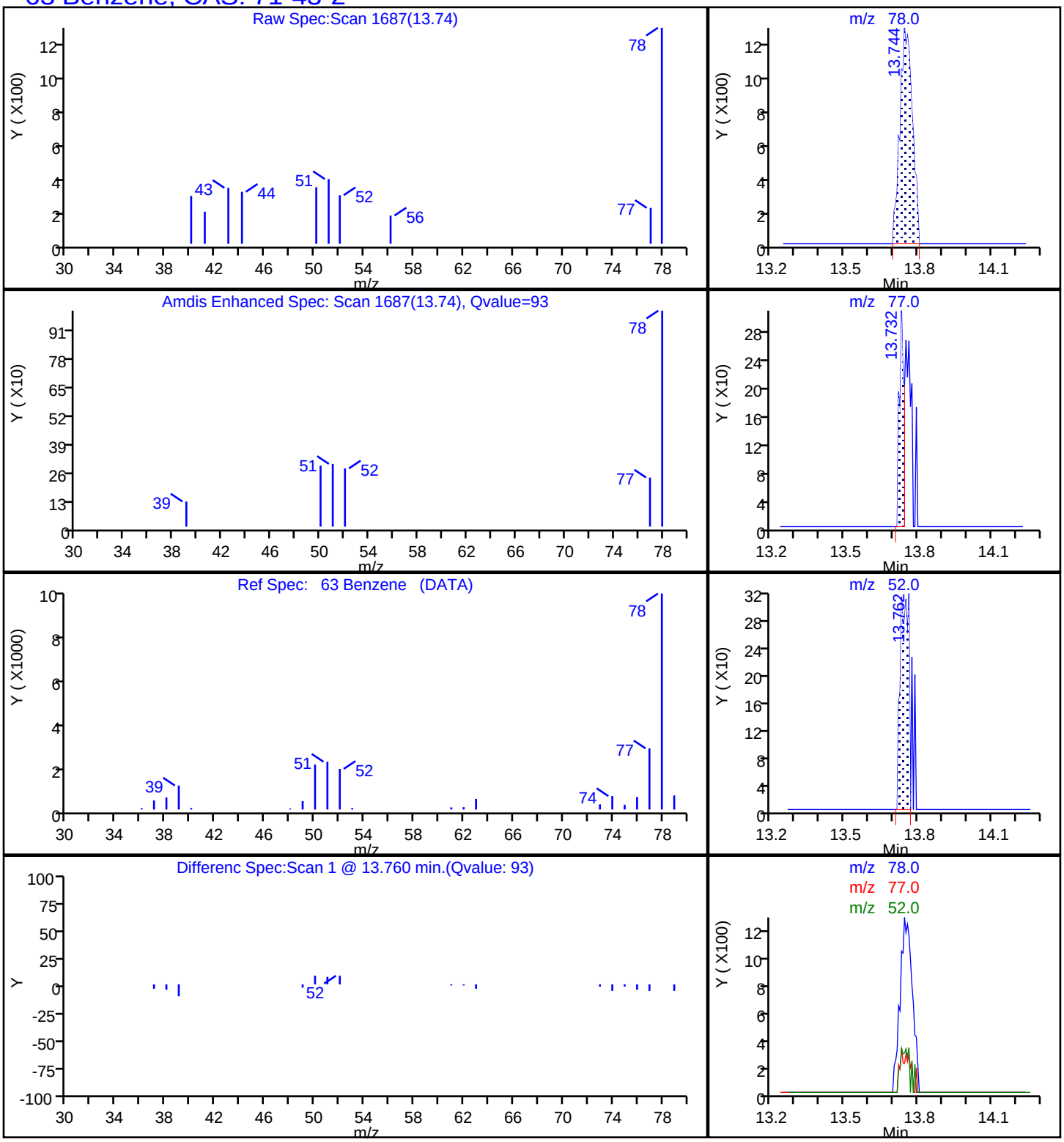
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



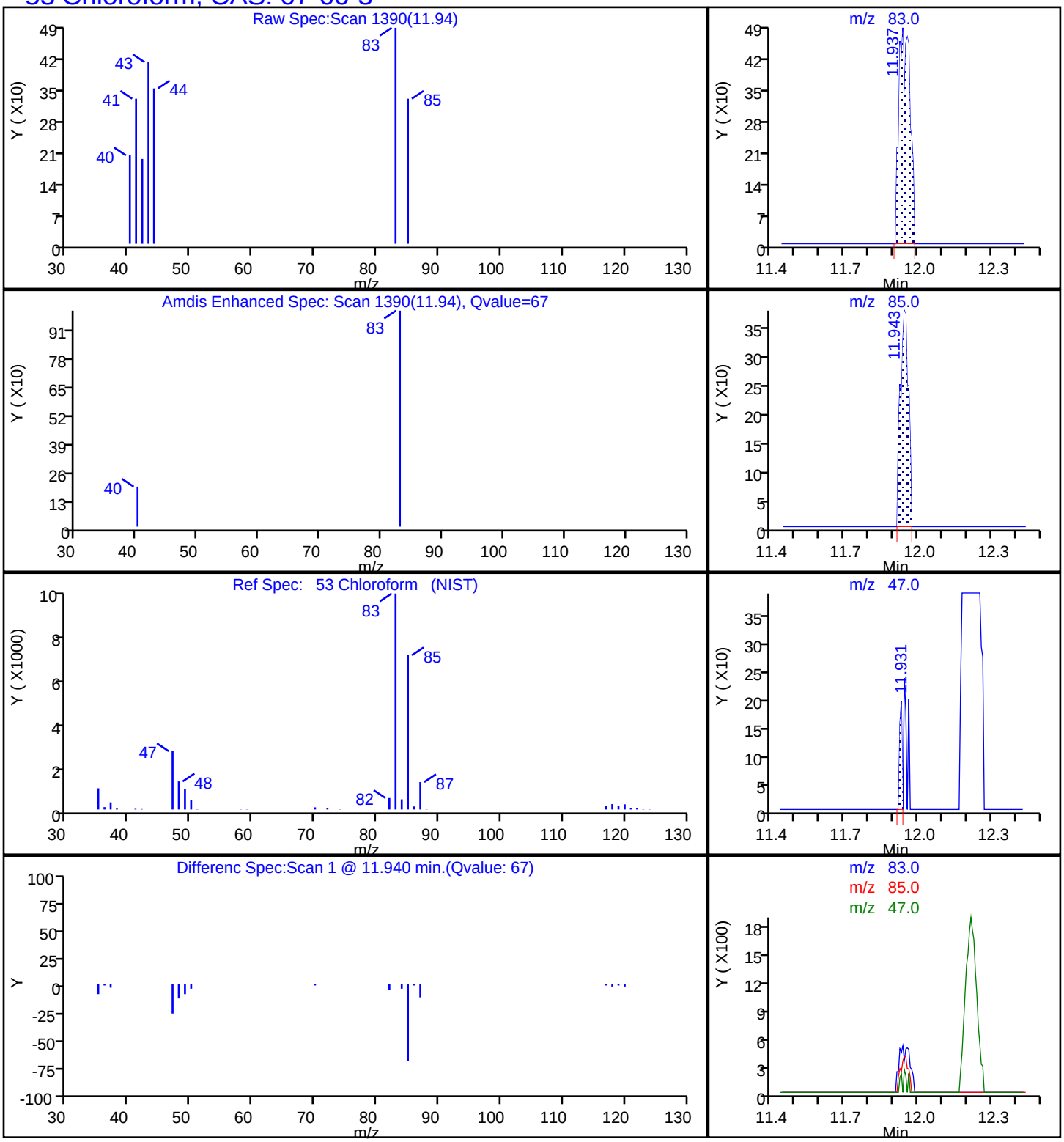
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



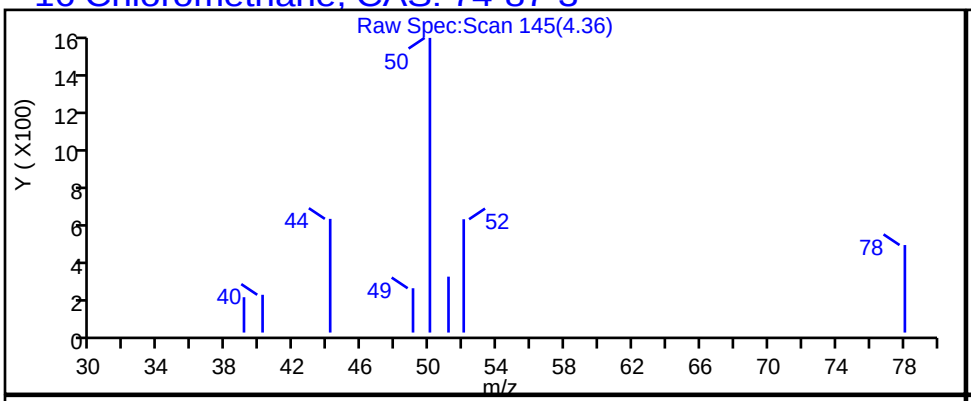
Report Date: 05-Apr-2018 15:59:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

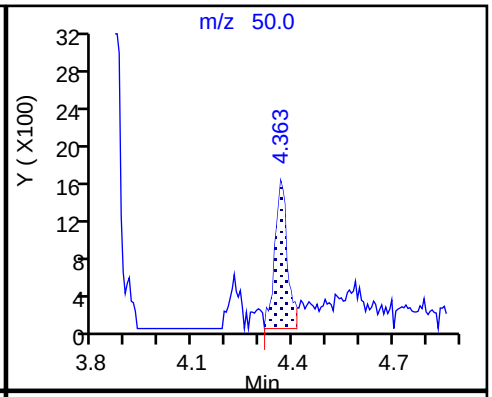
TestAmerica Sacramento

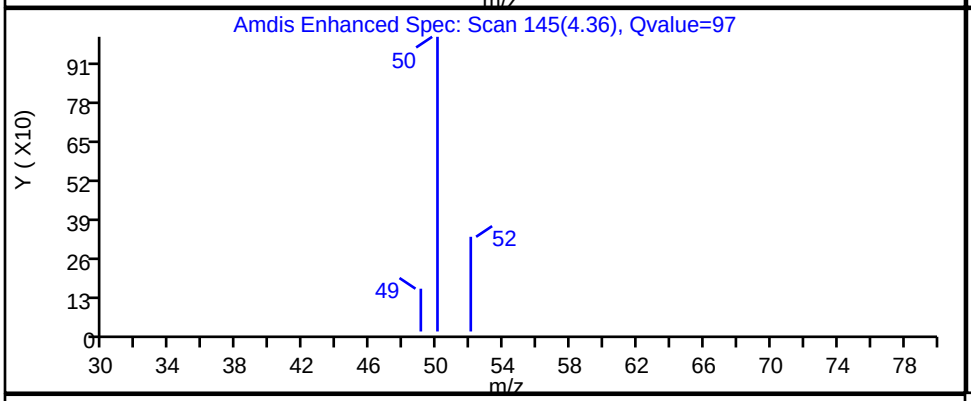
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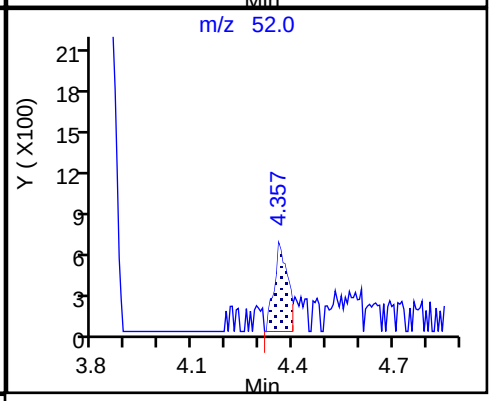
Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

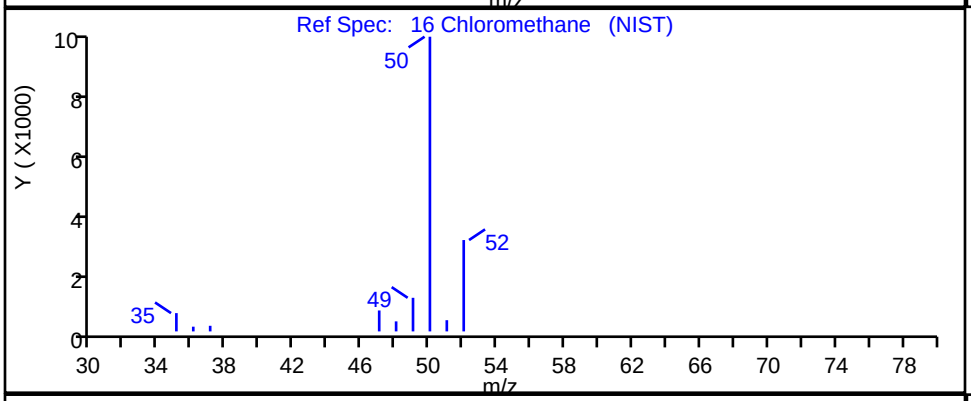
16 Chloromethane, CAS: 74-87-3

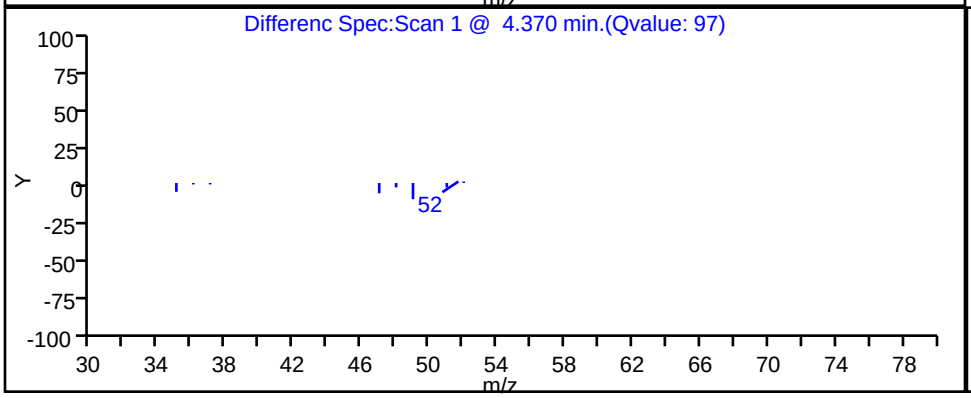


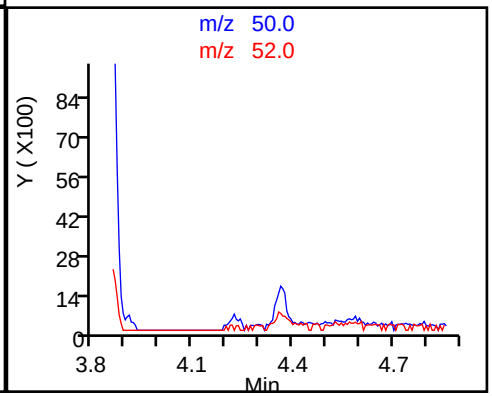












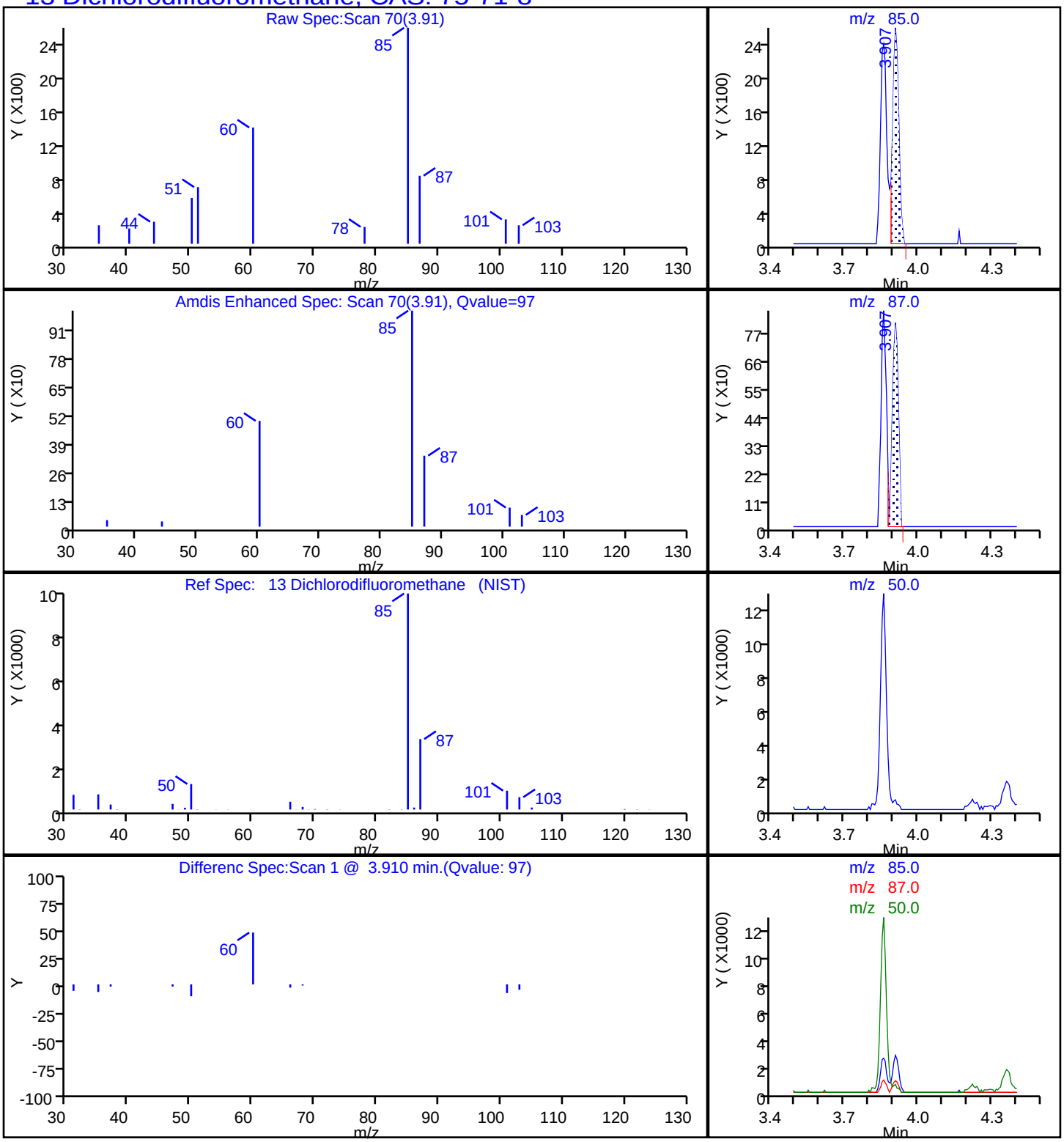
Report Date: 05-Apr-2018 15:59:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7		
Client ID:	776VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8



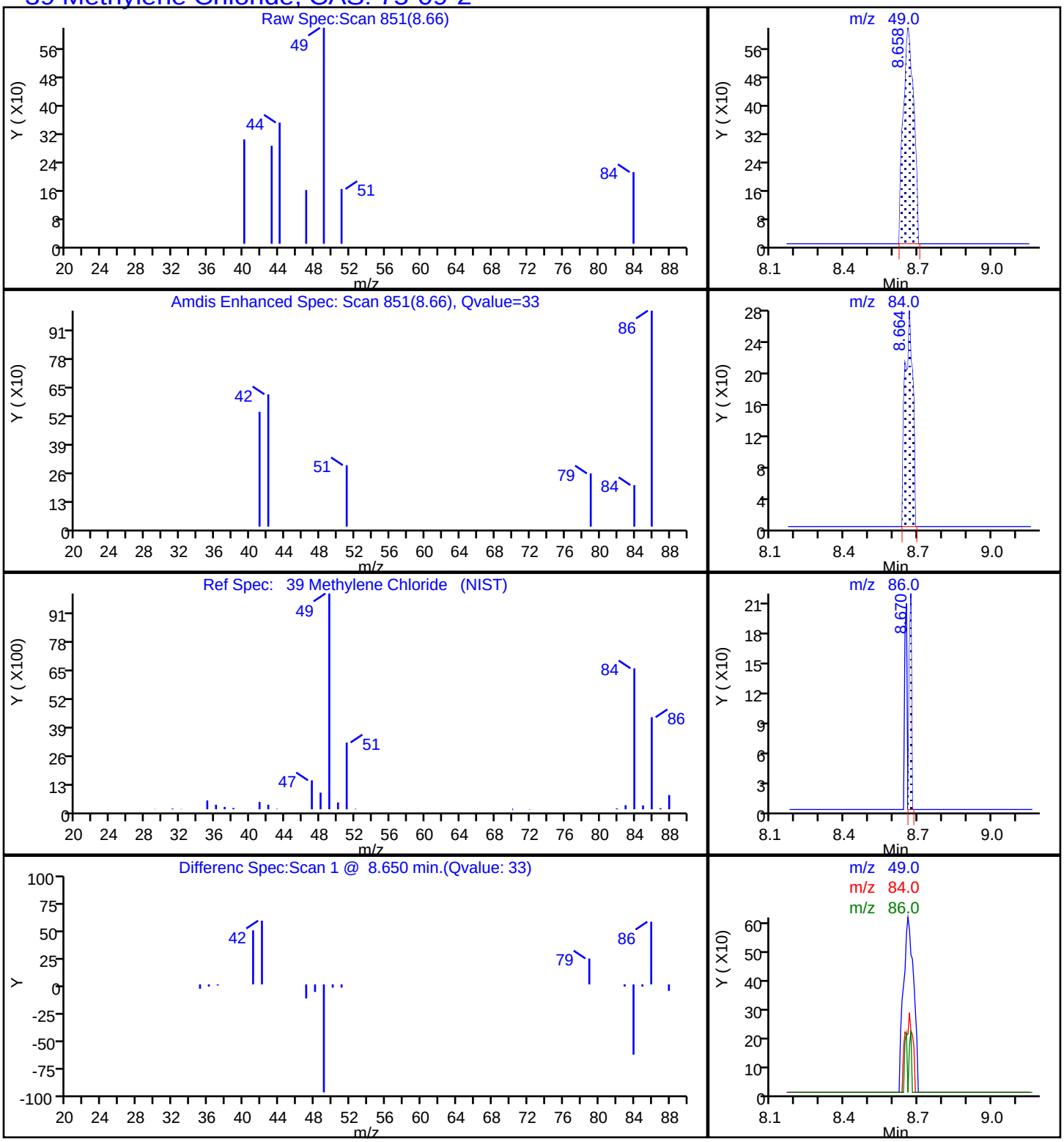
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



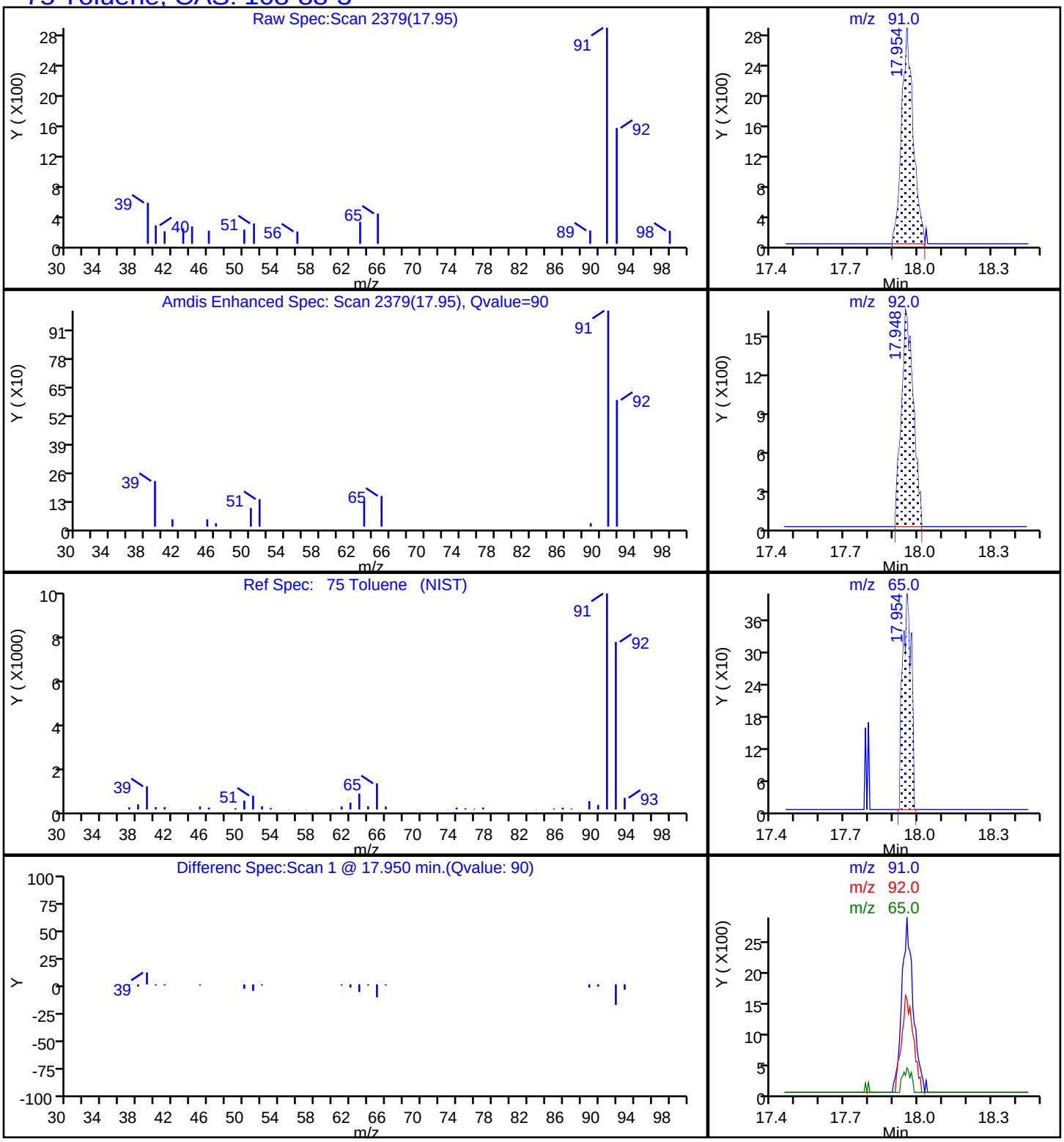
Report Date: 05-Apr-2018 16:00:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



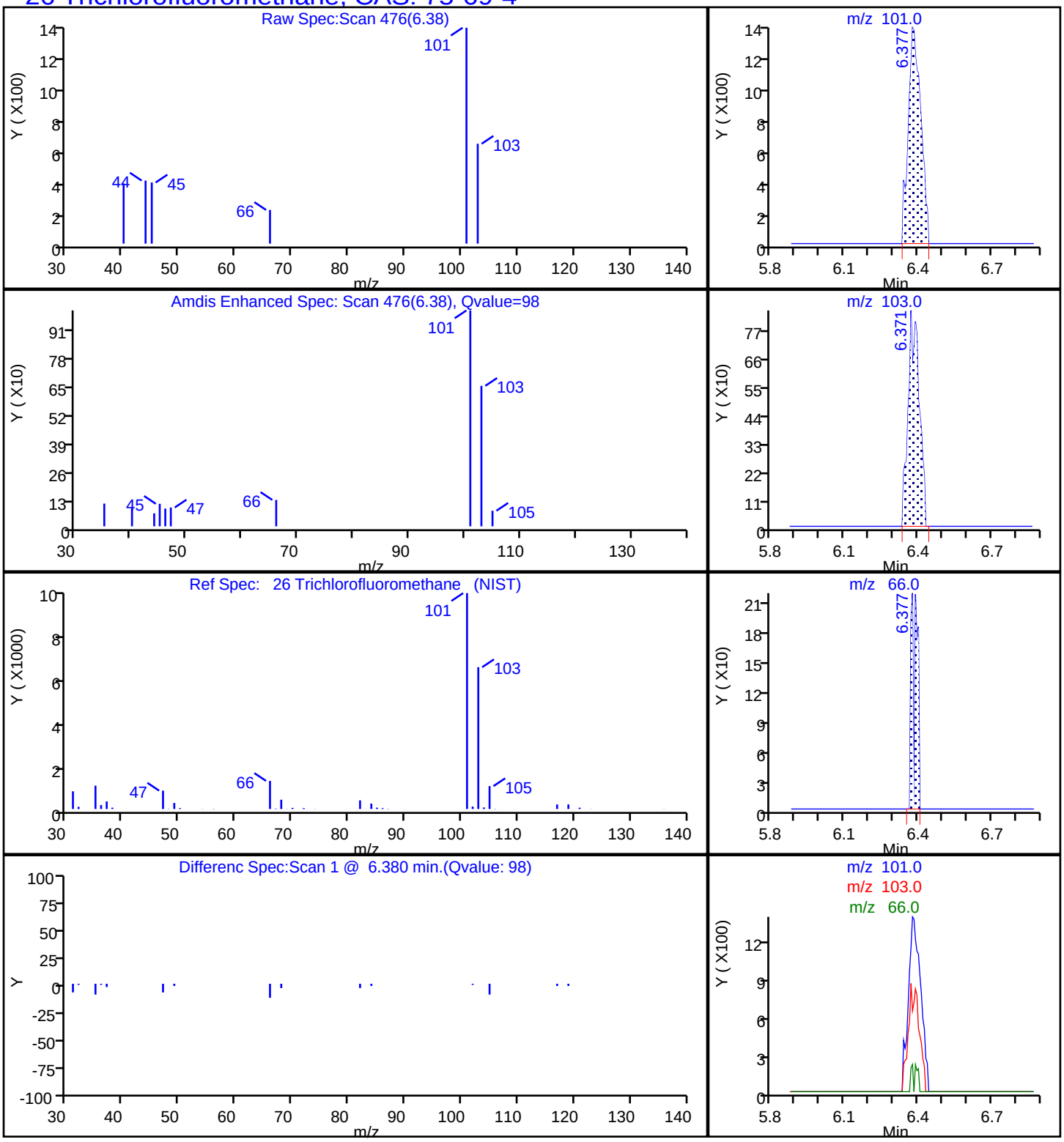
Report Date: 05-Apr-2018 15:59:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D

Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7
Client ID:	776VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



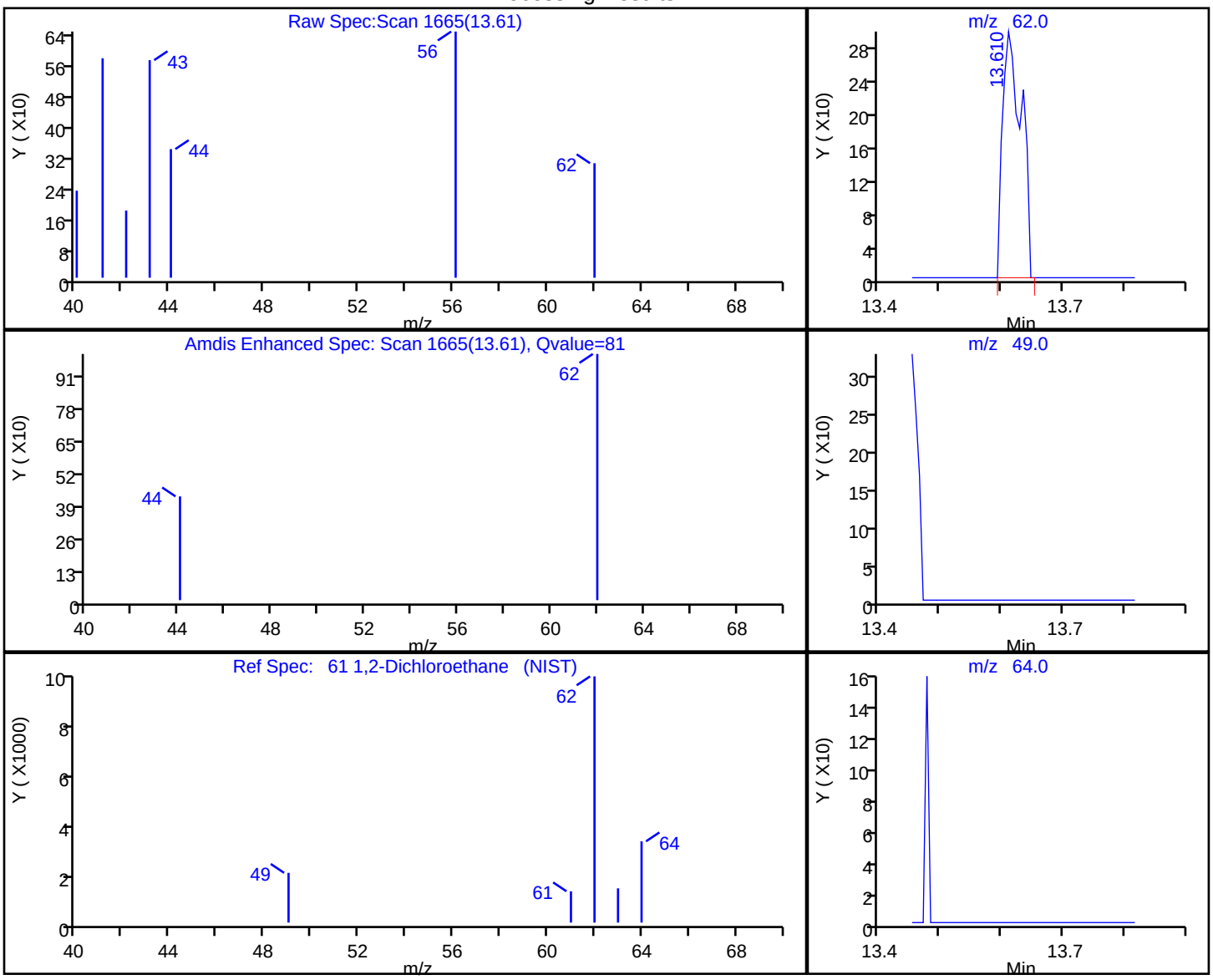
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D				
Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7		
Client ID:	776VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

61 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
13.61	62.00	641	0.057377
13.63	49.00	0	
13.63	64.00	0	

Reviewer: phanthasena, 05-Apr-2018 15:59:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

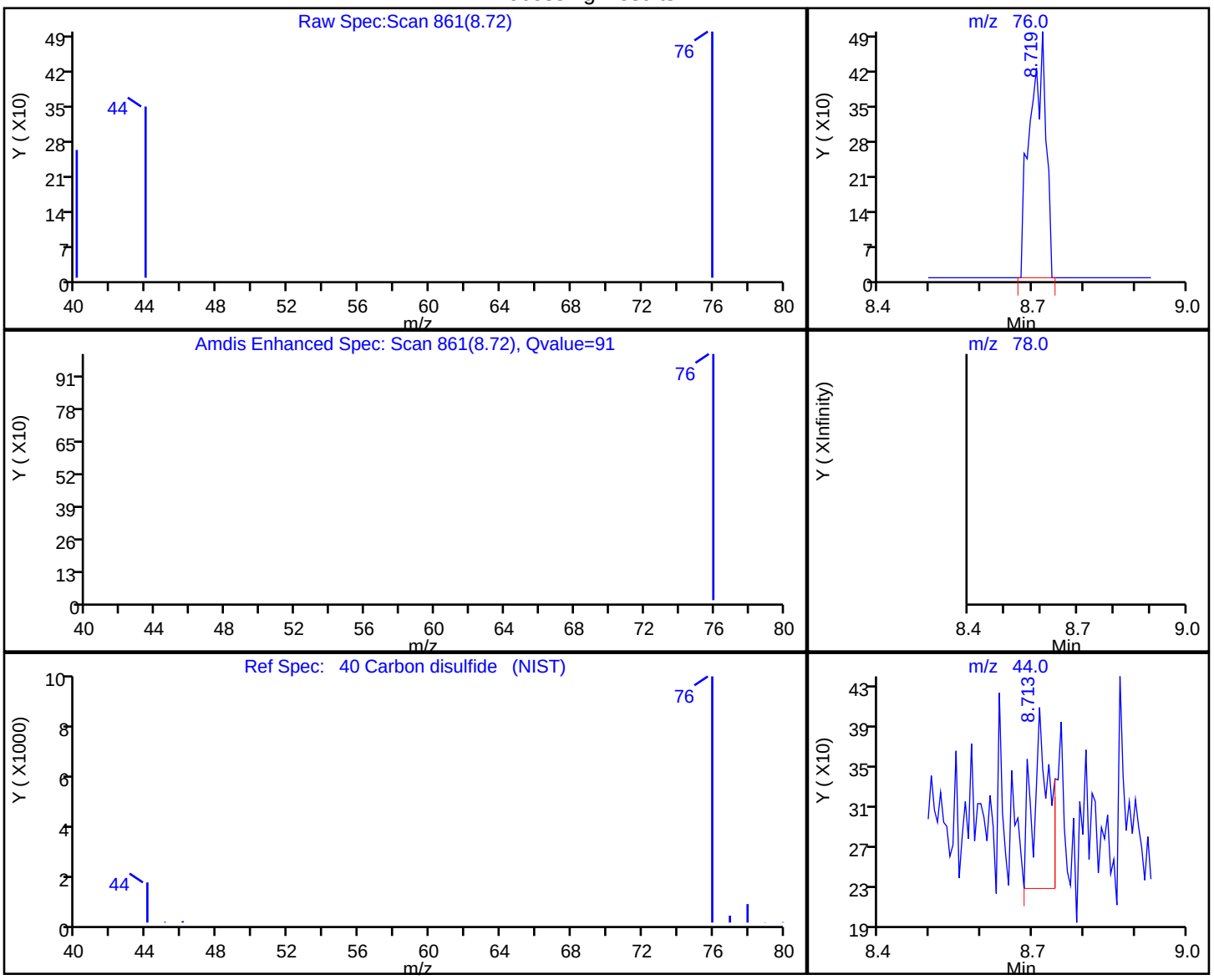
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040418.D				
Injection Date:	05-Apr-2018 01:16:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-7	Lab Sample ID:	320-37345-7		
Client ID:	776VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.72	76.00	1065	0.083056
8.71	78.00	0	
8.71	44.00	373	

Reviewer: phanthasena, 05-Apr-2018 15:59:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-3_0318 Lab Sample ID: 320-37345-8

Matrix: Air Lab File ID: MS7040419.D

Analysis Method: TO-15 Date Collected: 03/21/2018 15:40

Sample wt/vol: 392(mL) Date Analyzed: 04/05/2018 02:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U M	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	2.9		2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U M	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U M	3.3	1.6	0.55
67-64-1	Acetone	76		12	0.95	0.42
71-43-2	Benzene	0.36	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U M	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.46	J	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.46	J	1.5	0.98	0.46
74-87-3	Chloromethane	0.88	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776VMP-3_0318 Lab Sample ID: 320-37345-8

Matrix: Air Lab File ID: MS7040419.D

Analysis Method: TO-15 Date Collected: 03/21/2018 15:40

Sample wt/vol: 392(mL) Date Analyzed: 04/05/2018 02:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.0	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	3.0		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.41	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	1.4	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.42	J	1.7	0.87	0.23
100-42-5	Styrene	1.5	J	1.7	0.85	0.25
127-18-4	Tetrachloroethene	100		2.7	1.4	0.35
108-88-3	Toluene	0.77	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	27		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.5	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D
Lims ID: 320-37345-A-8
Client ID: 776VMP-3_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 02:13:30 ALS Bottle#: 15 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-8
Misc. Info.: 392 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 17:20:27 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 17:20:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.229	12.235	-0.006	92	30397	4.00	
* 2 1,4-Difluorobenzene	114	14.377	14.389	-0.012	97	150890	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.057	21.069	-0.012	92	165020	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.423	-0.012	96	59074	4.15	
$ 5 Toluene-d8 (Surr)	100	17.778	17.775	-0.012	98	111541	4.24	
$ 6 4-Bromofluorobenzene (Surr	95	23.606	23.604	-0.012	85	107437	3.50	
13 Dichlorodifluoromethane	85	3.907	3.903	0.000	81	5040	0.4113	
16 Chloromethane	50	4.369	4.353	0.012	97	2808	0.4275	
26 Trichlorofluoromethane	101	6.389	6.389	-0.006	96	4457	0.2656	
32 Acetone	43	7.302	7.301	-0.006	100	455638	31.9	
33 1,1,2-Trichloro-1,2,2-trif	101	7.460	7.471	-0.018	1	767	0.0556	
39 Methylene Chloride	49	8.658	8.656	-0.006	80	1359	0.1166	
48 2-Butanone (MEK)	72	11.183	11.166	0.006	94	3870	1.00	
53 Chloroform	83	11.944	11.950	-0.018	78	1465	0.0949	
59 Carbon tetrachloride	117	13.470	13.470	-0.019	1	1291	0.0606	M
63 Benzene	78	13.756	13.751	-0.006	92	3172	0.1121	
65 Trichloroethene	130	15.143	15.143	-0.013	96	69449	5.11	
75 Toluene	91	17.960	17.951	-0.006	91	8166	0.2051	
80 Tetrachloroethene	166	19.463	19.464	-0.012	93	318629	14.9	
83 Chlorobenzene	112	21.130	21.136	-0.018	62	3614	0.0998	
86 Ethylbenzene	91	21.312	21.312	-0.012	98	40411	0.7001	
87 m-Xylene & p-Xylene	91	21.495	21.494	-0.012	84	14725	0.3297	
88 o-Xylene	91	22.389	22.394	-0.018	90	4317	0.0971	
89 Styrene	104	22.432	22.425	-0.006	97	12221	0.3564	
102 4-Ethyltoluene	120	24.257	24.255	-0.012	92	739	0.0395	
104 1,3,5-Trimethylbenzene	120	24.366	24.366	0.000	1	709	0.0257	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

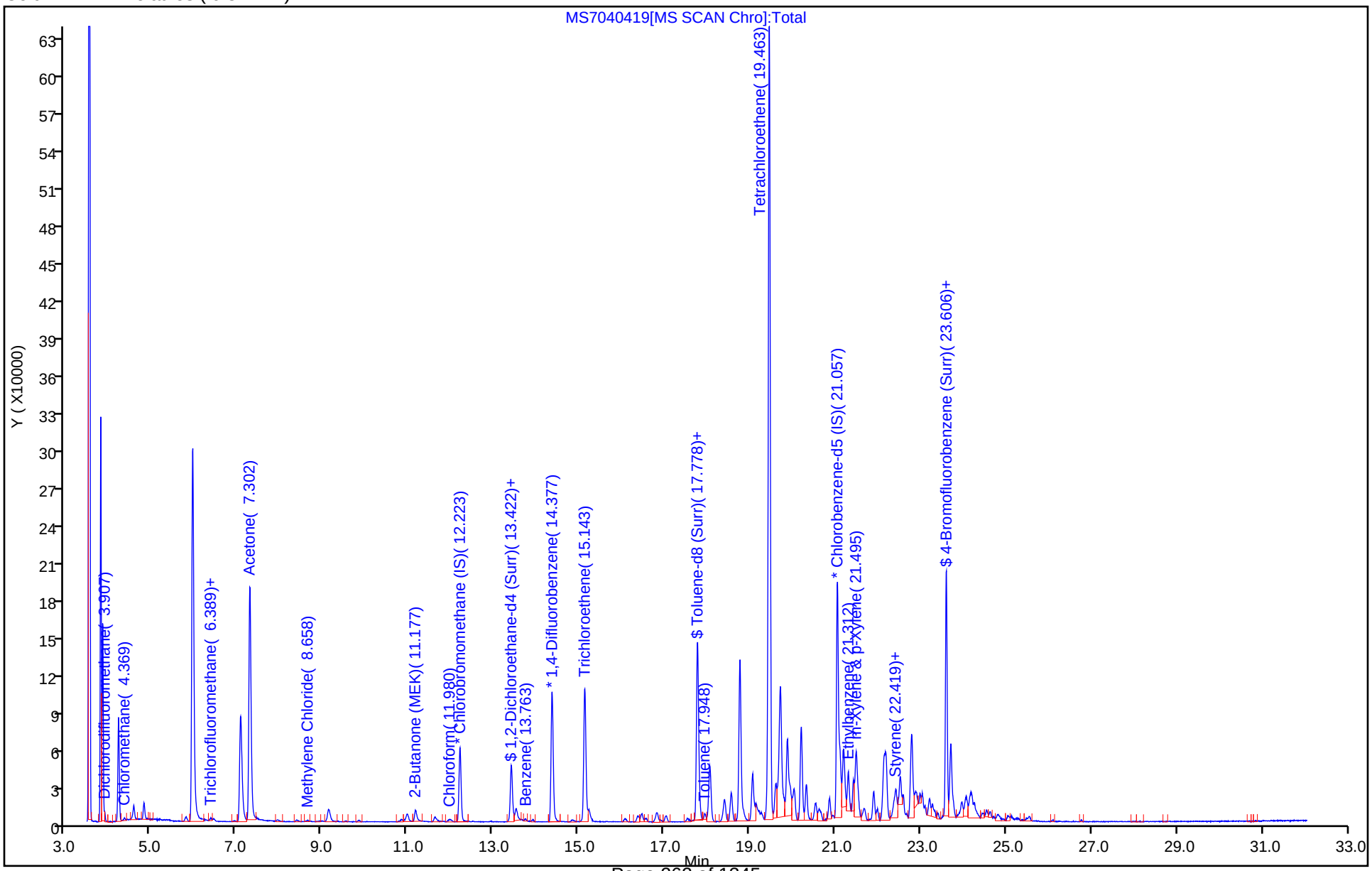
Report Date: 05-Apr-2018 17:20:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8	Worklist Smp#:	19
Client ID:	776VMP-3_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D
Lims ID: 320-37345-A-8
Client ID: 776VMP-3_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 02:13:30 ALS Bottle#: 15 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-8
Misc. Info.: 392 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 17:20:27 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 17:20:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.15	103.78
$ 5 Toluene-d8 (Surr)	4.00	4.24	106.10
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.50	87.62

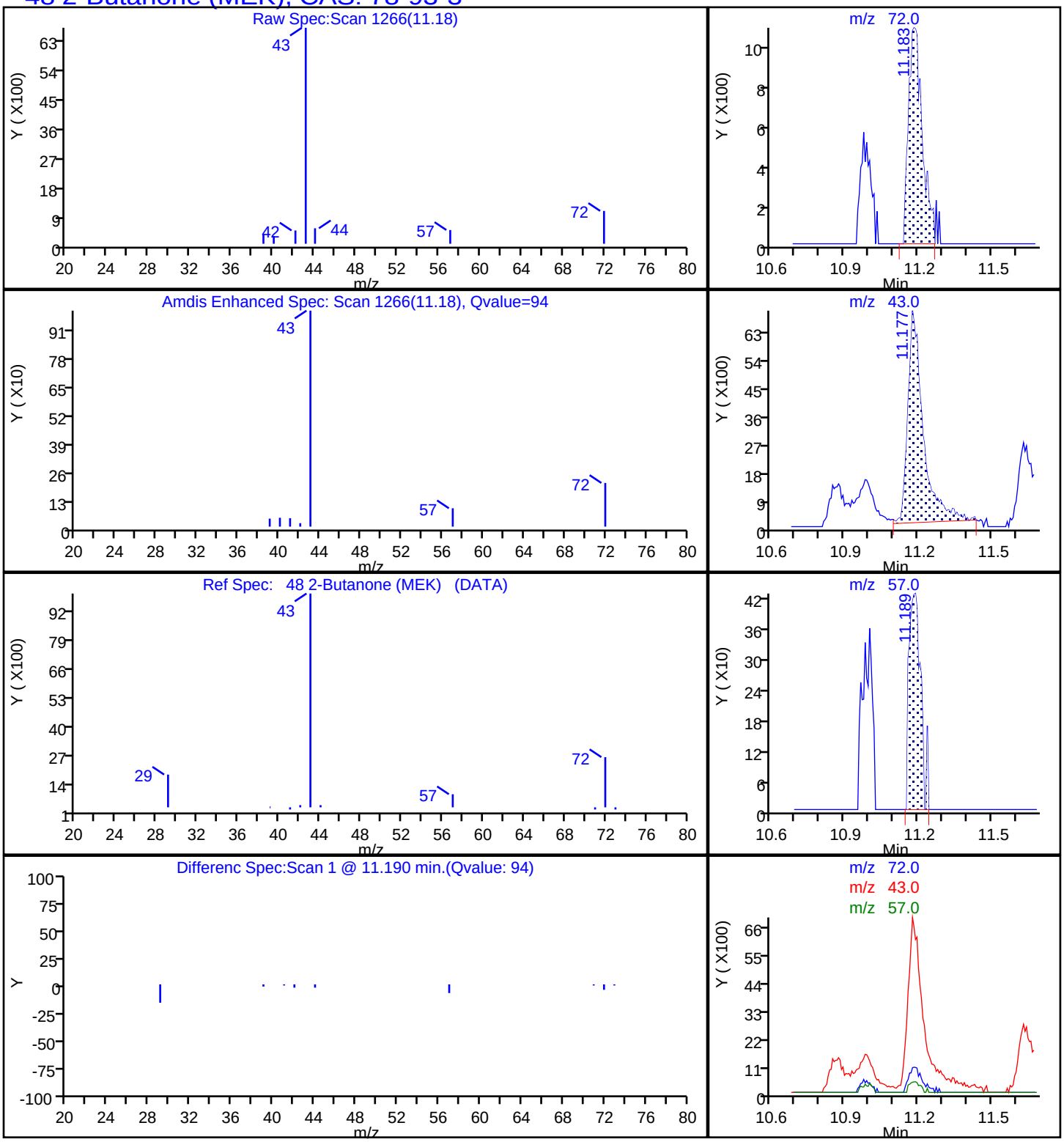
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



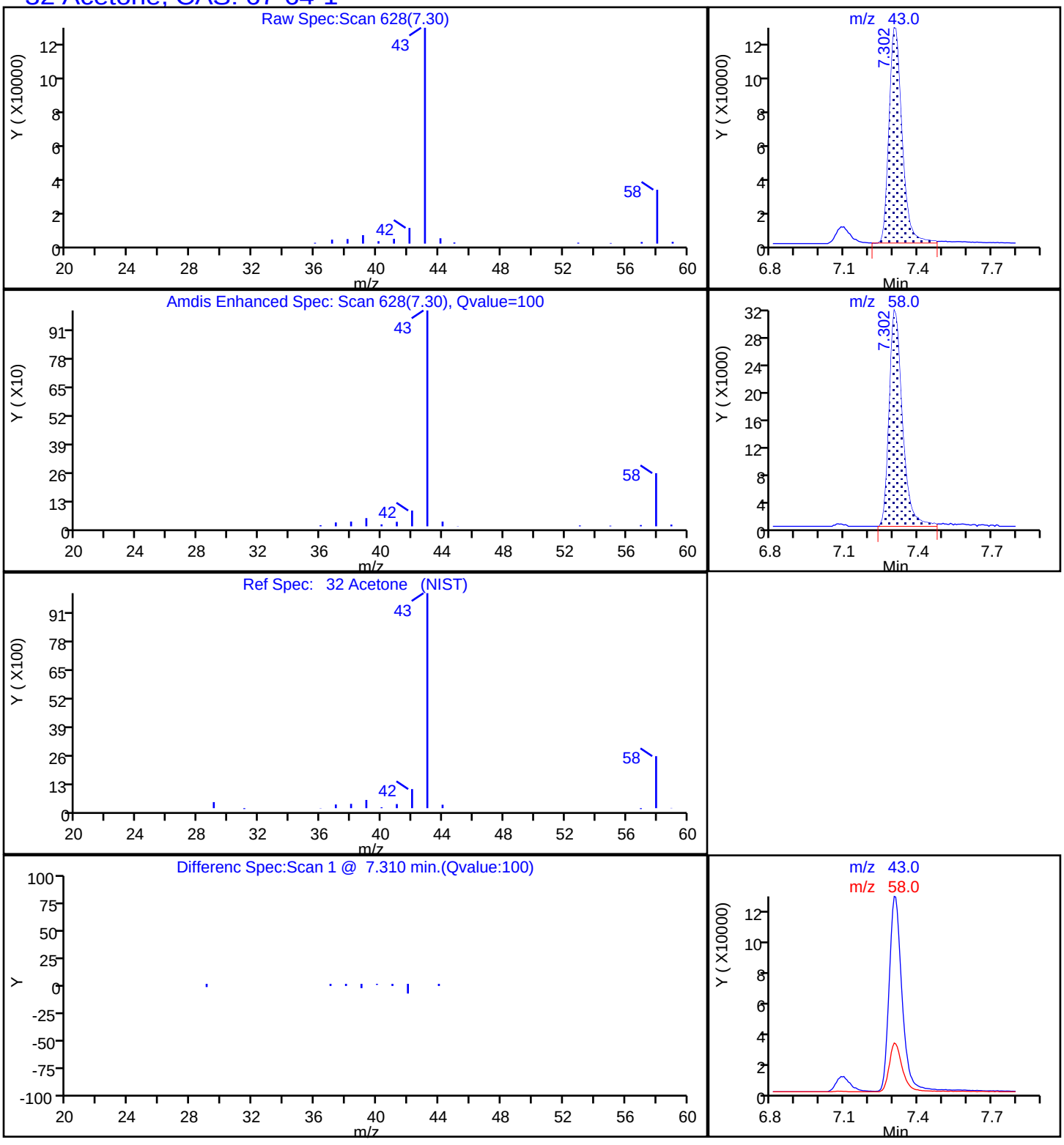
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

32 Acetone, CAS: 67-64-1



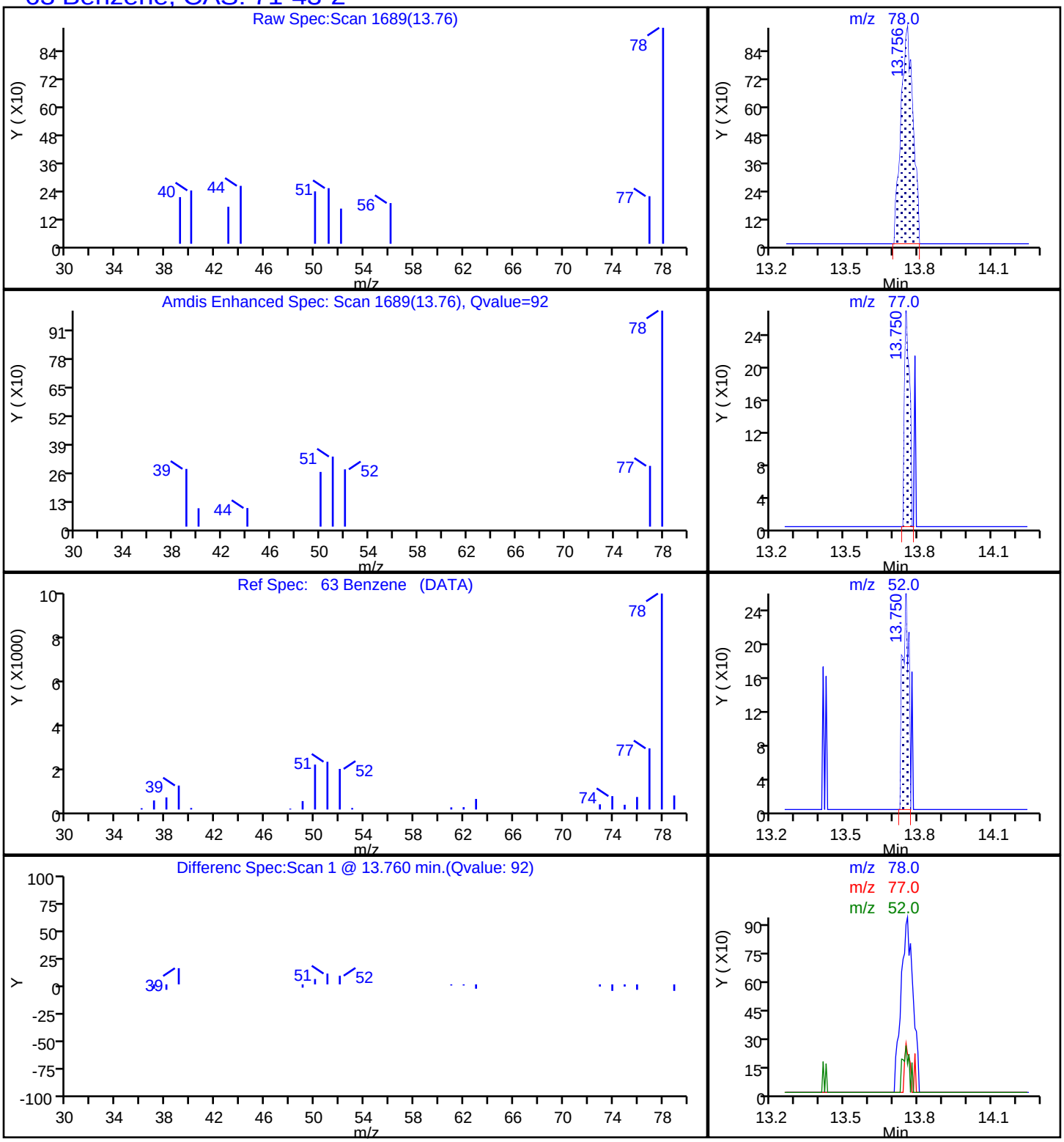
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



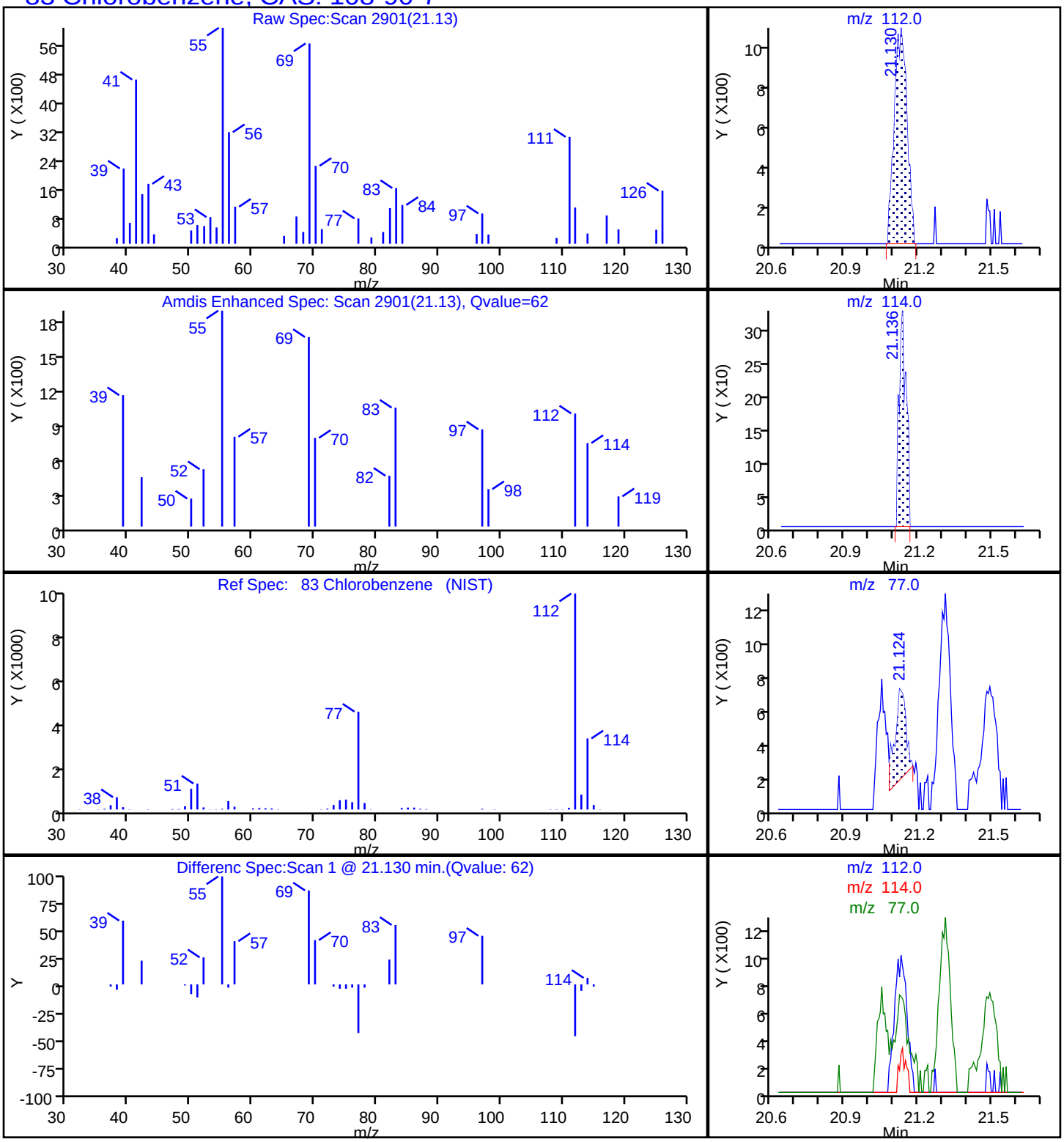
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

83 Chlorobenzene, CAS: 108-90-7



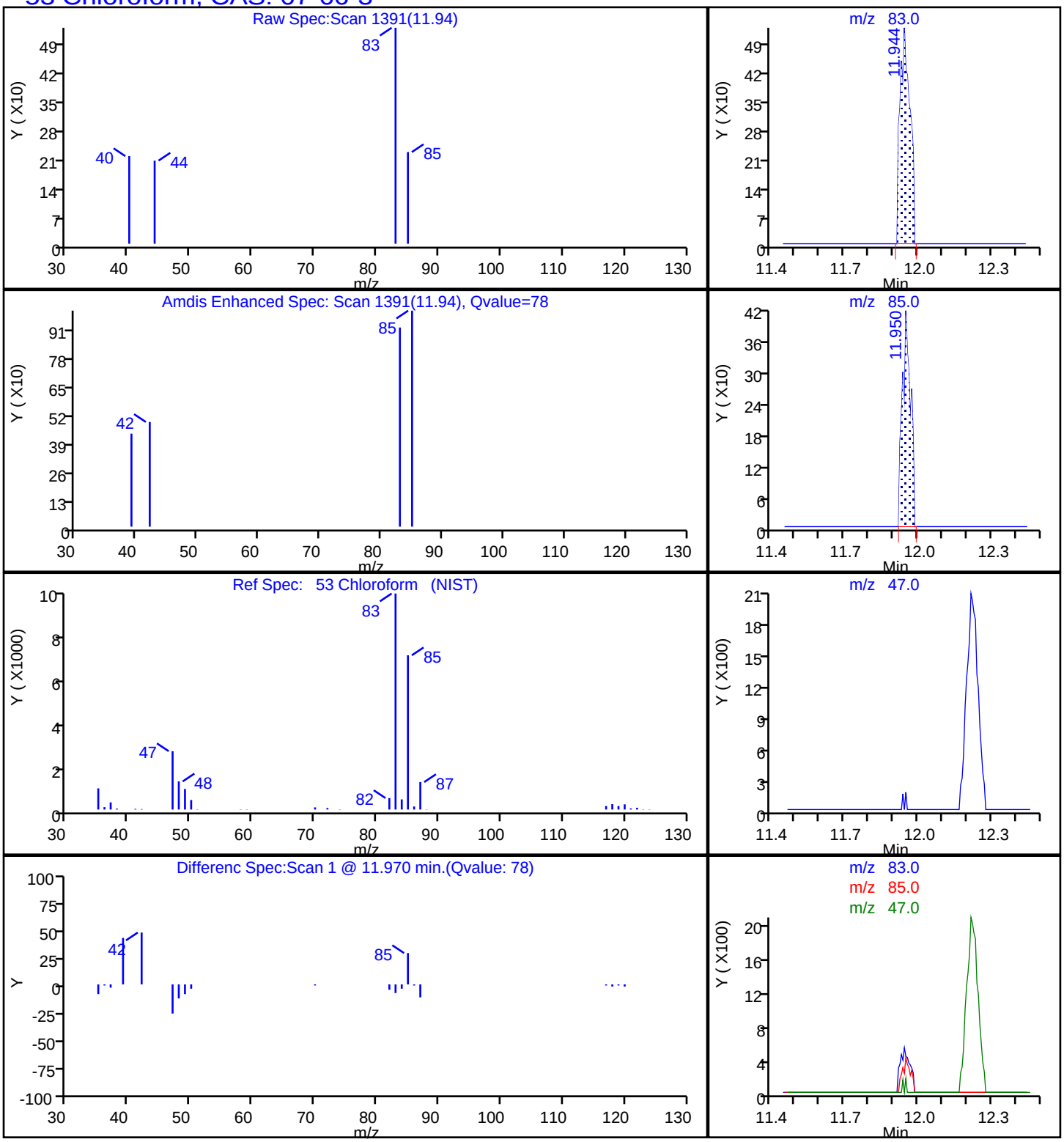
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8		
Client ID:	776VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

53 Chloroform, CAS: 67-66-3



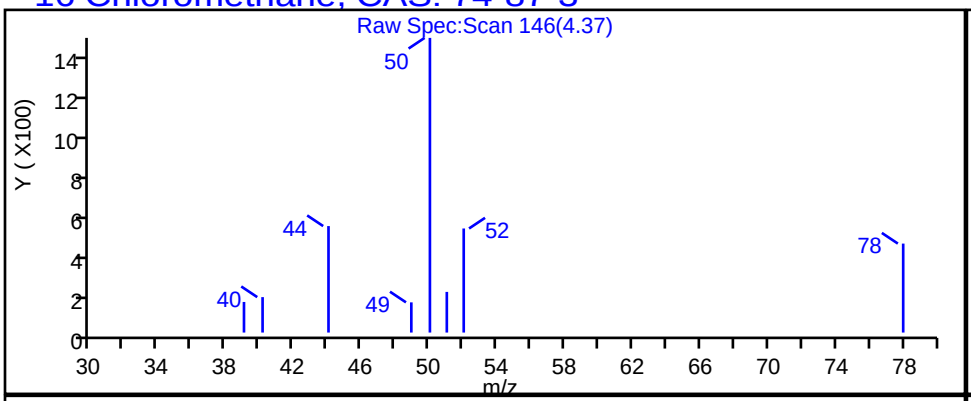
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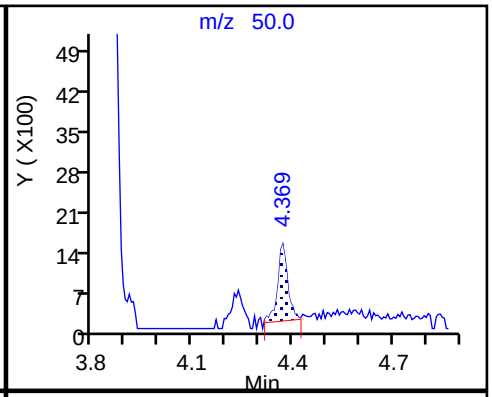
TestAmerica Sacramento

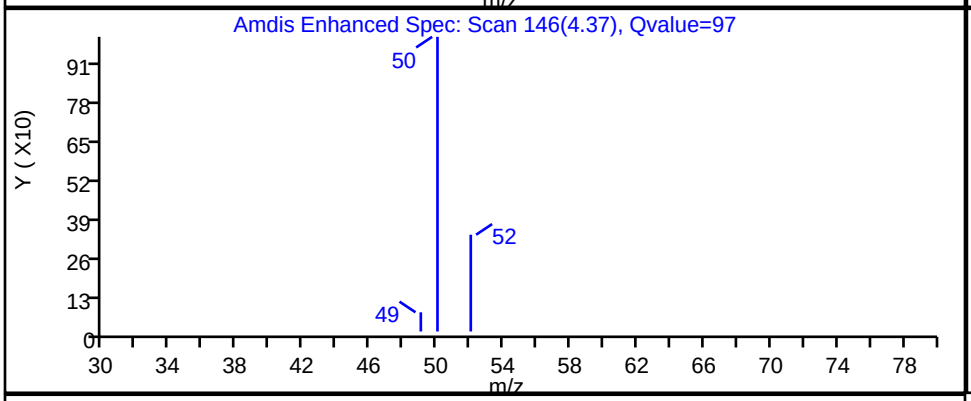
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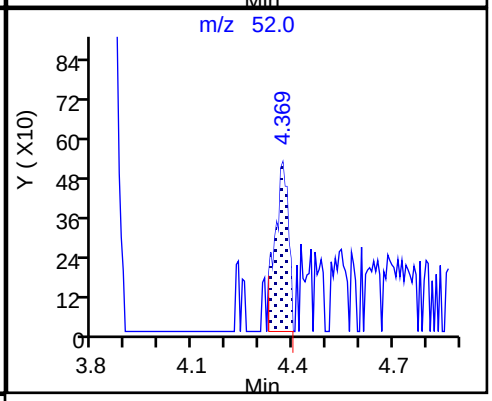
Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

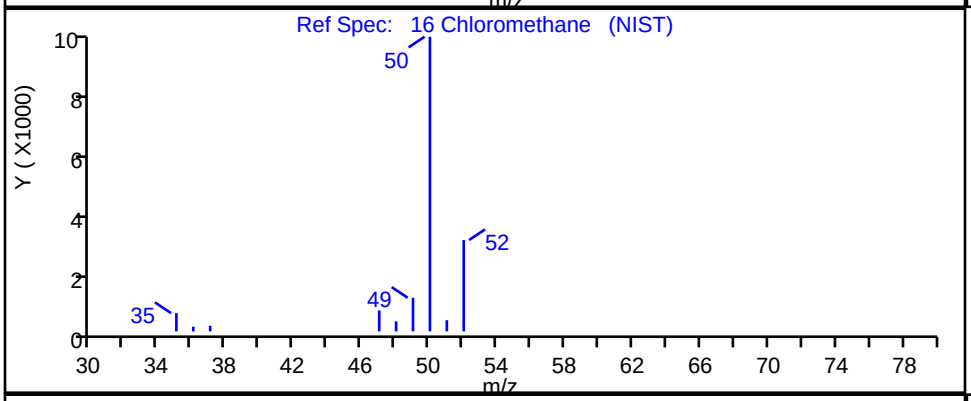
16 Chloromethane, CAS: 74-87-3

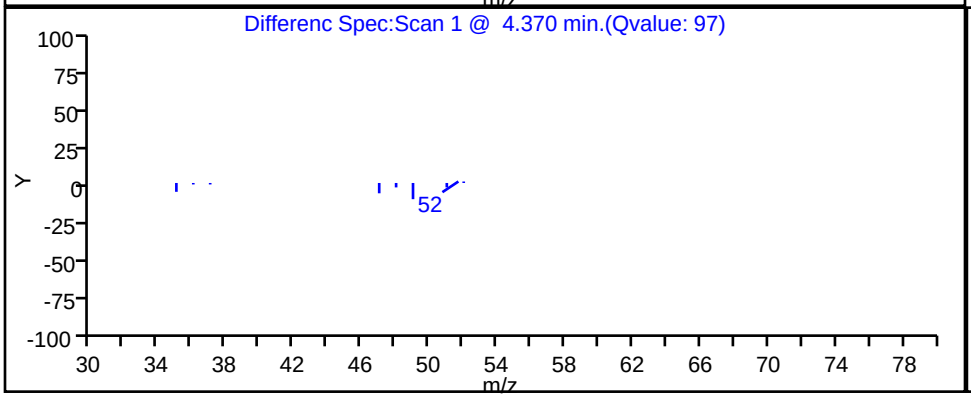


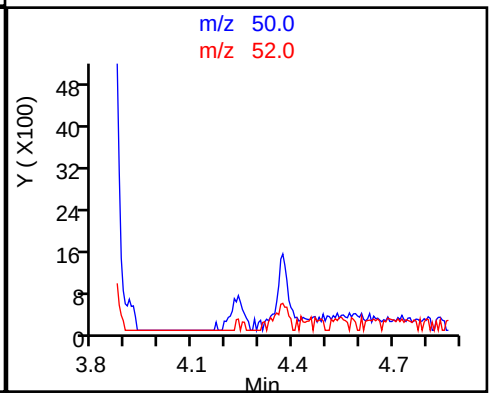












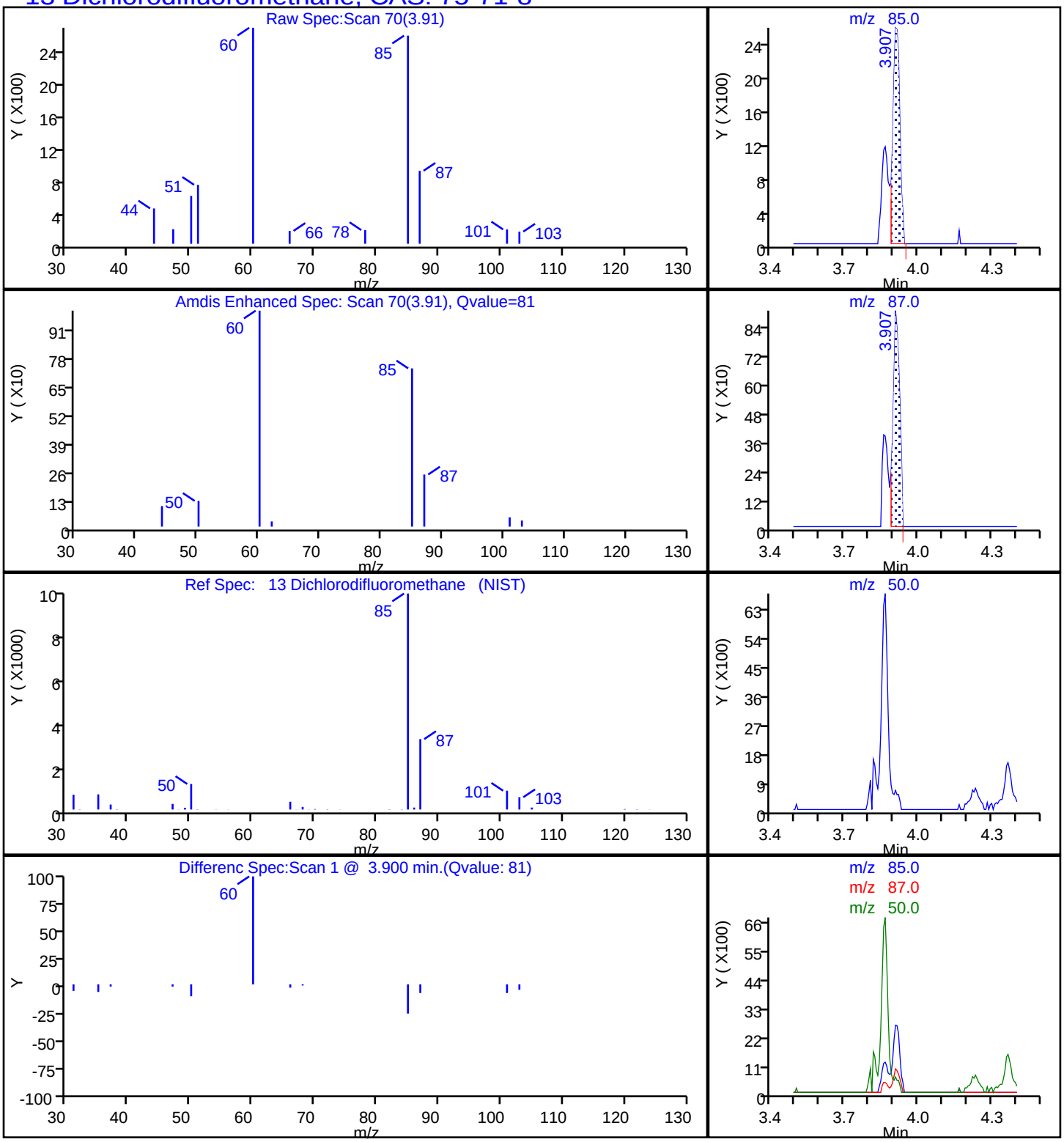
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



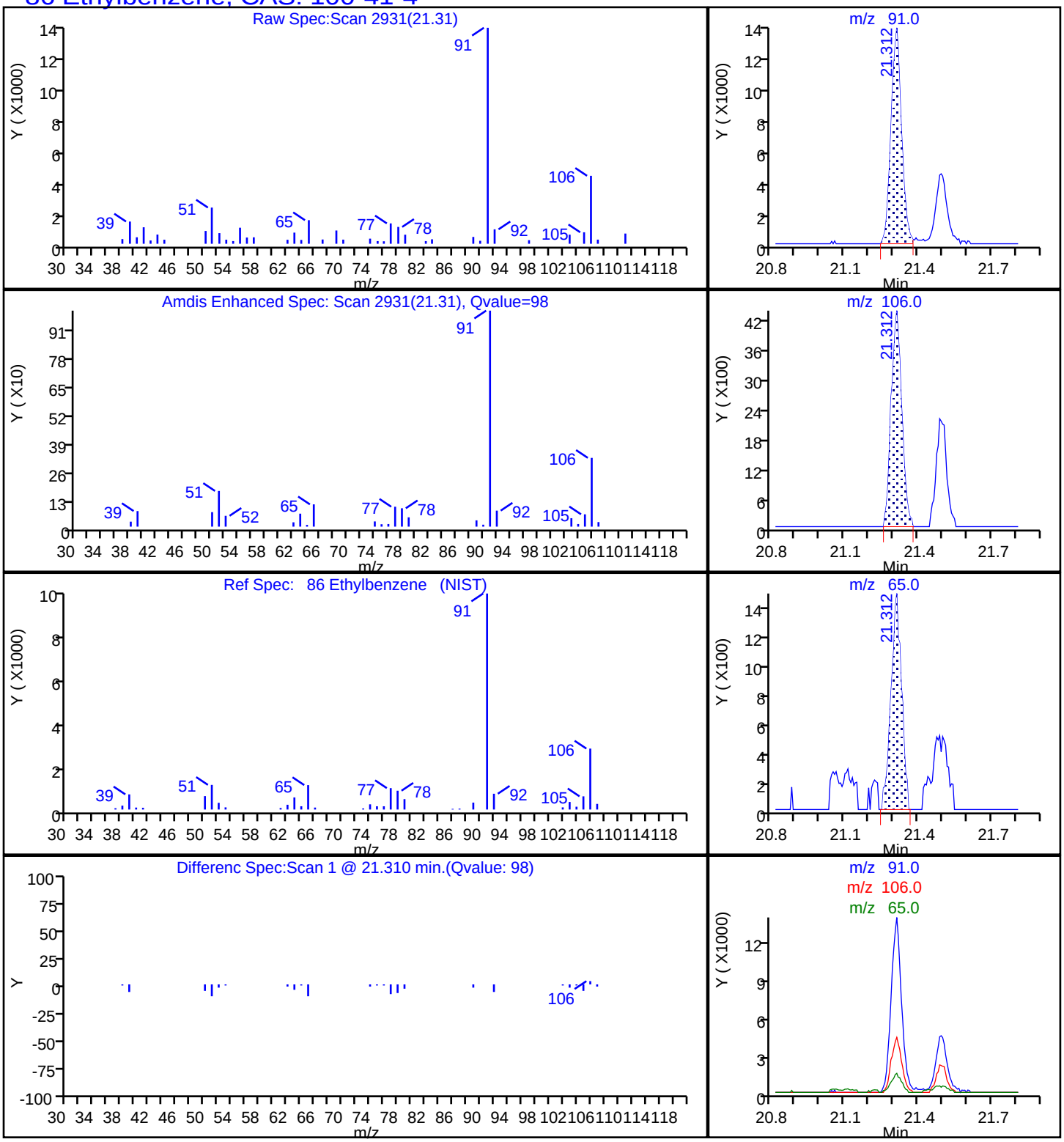
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



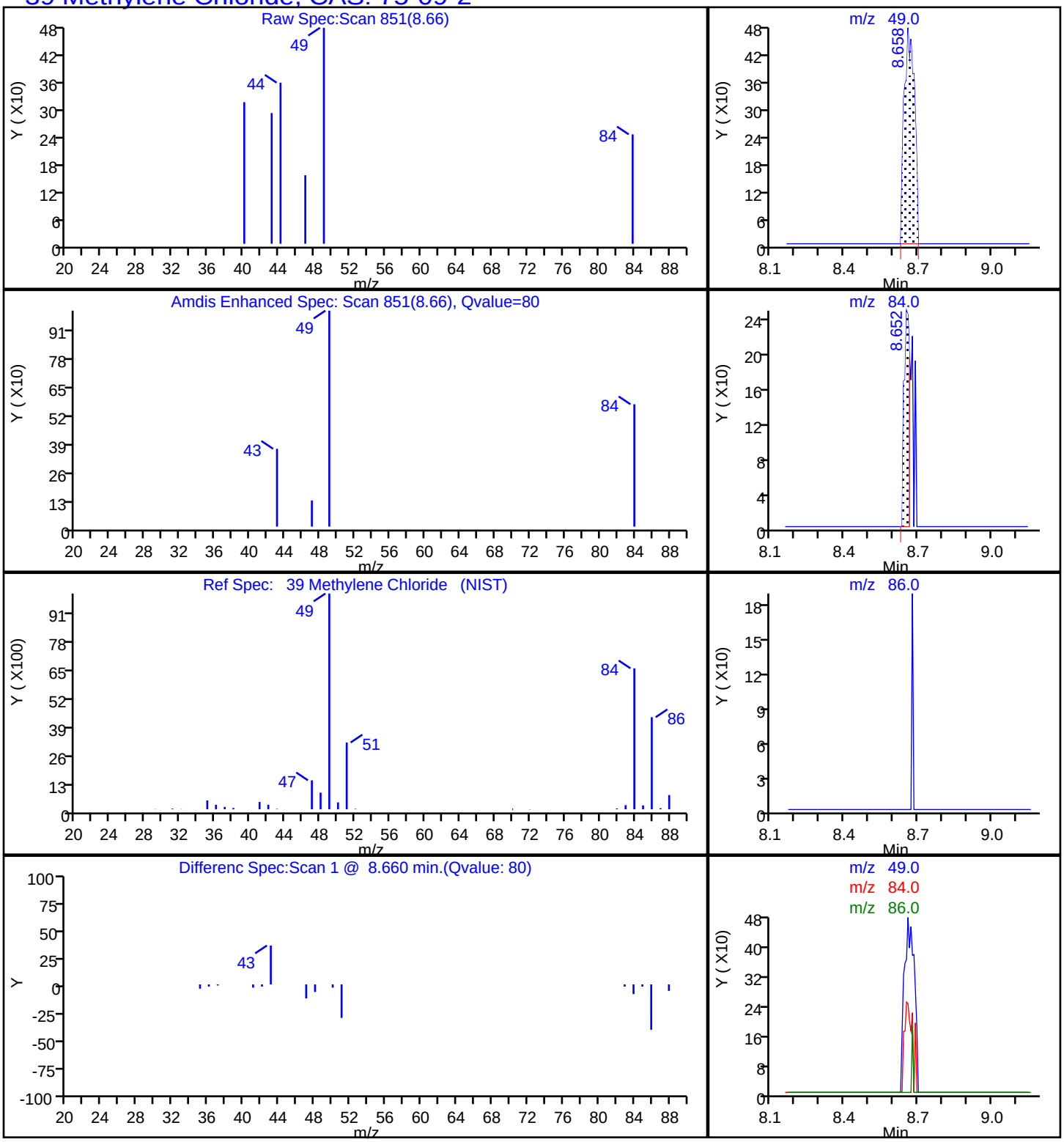
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



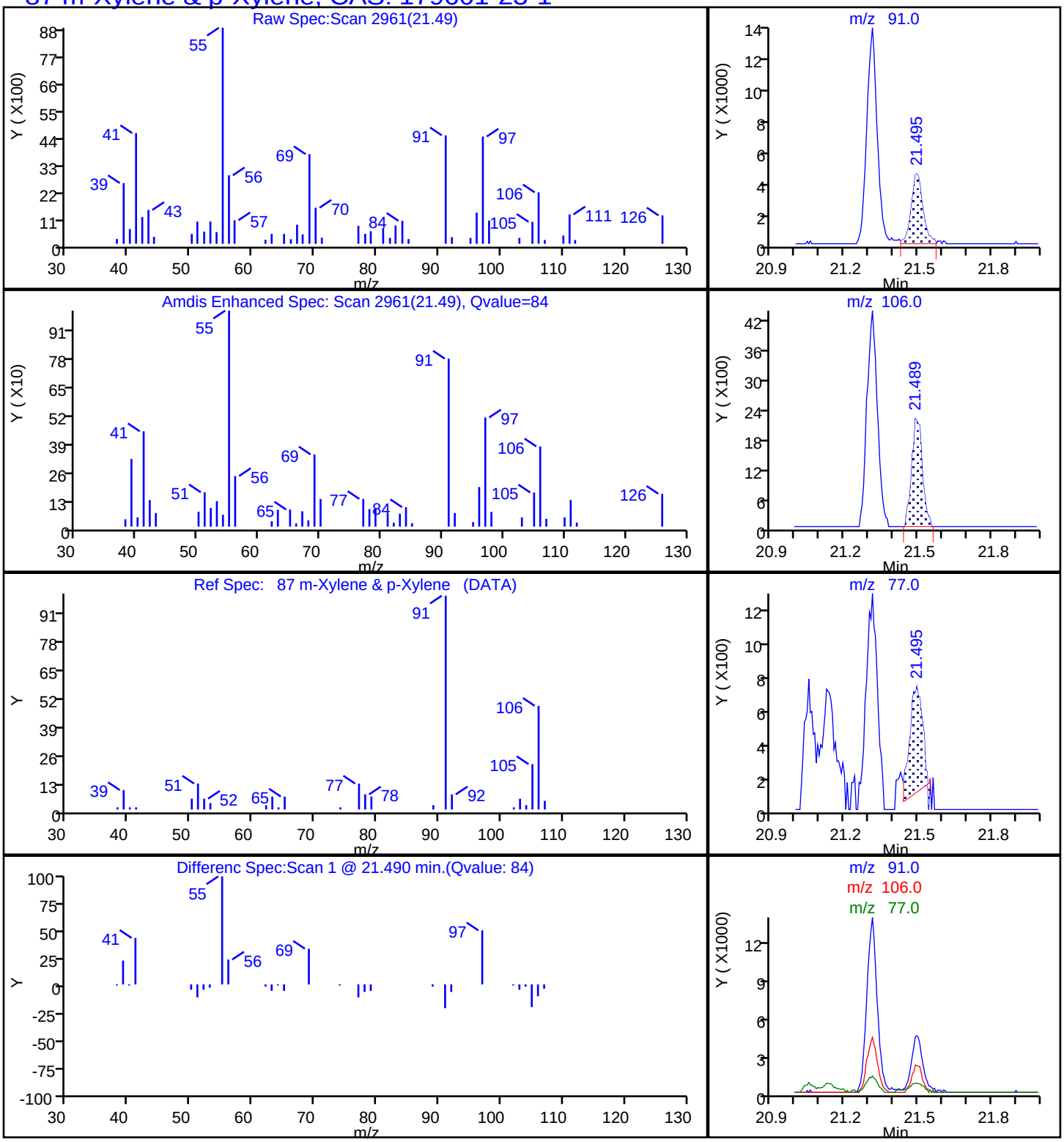
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



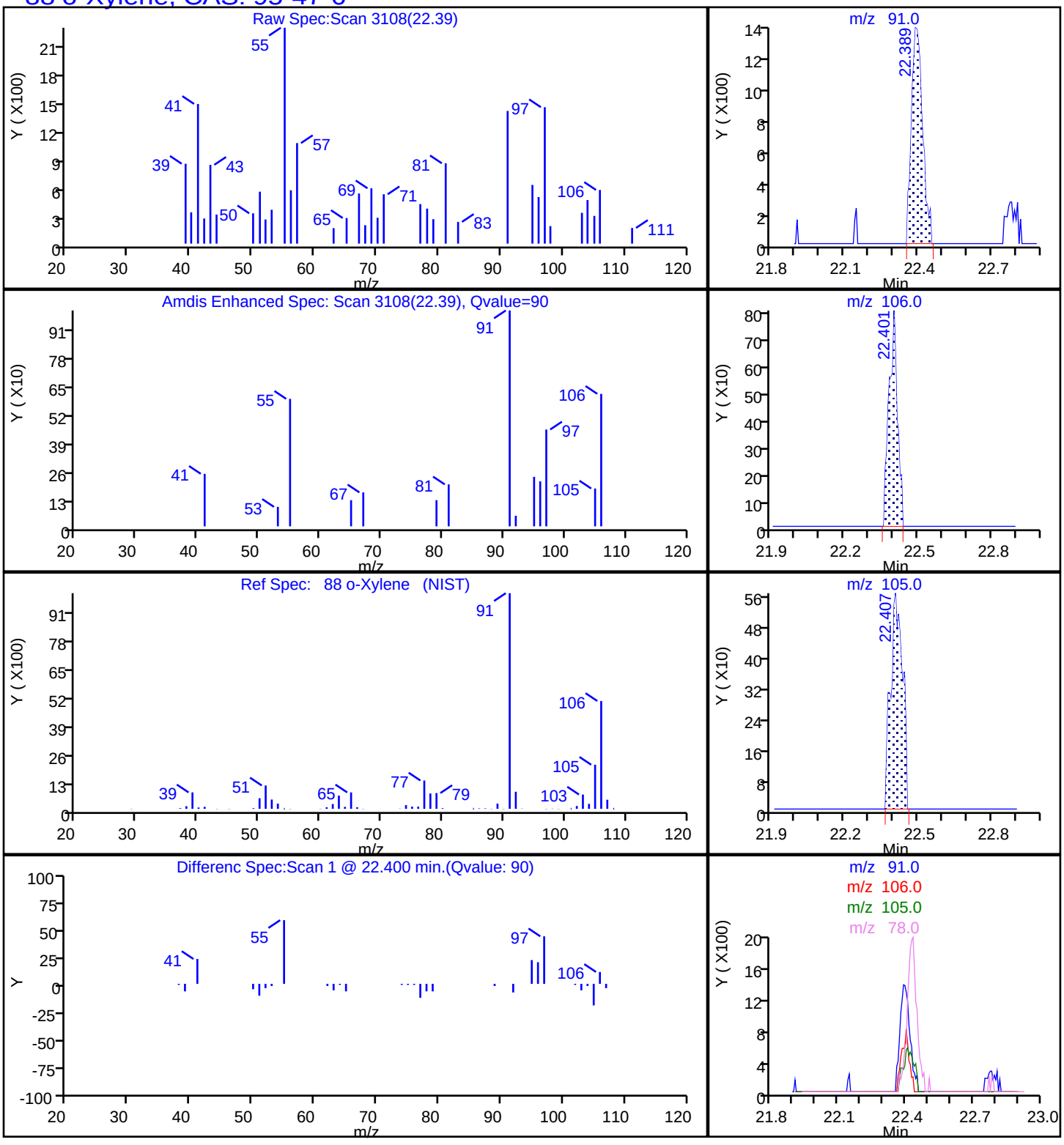
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



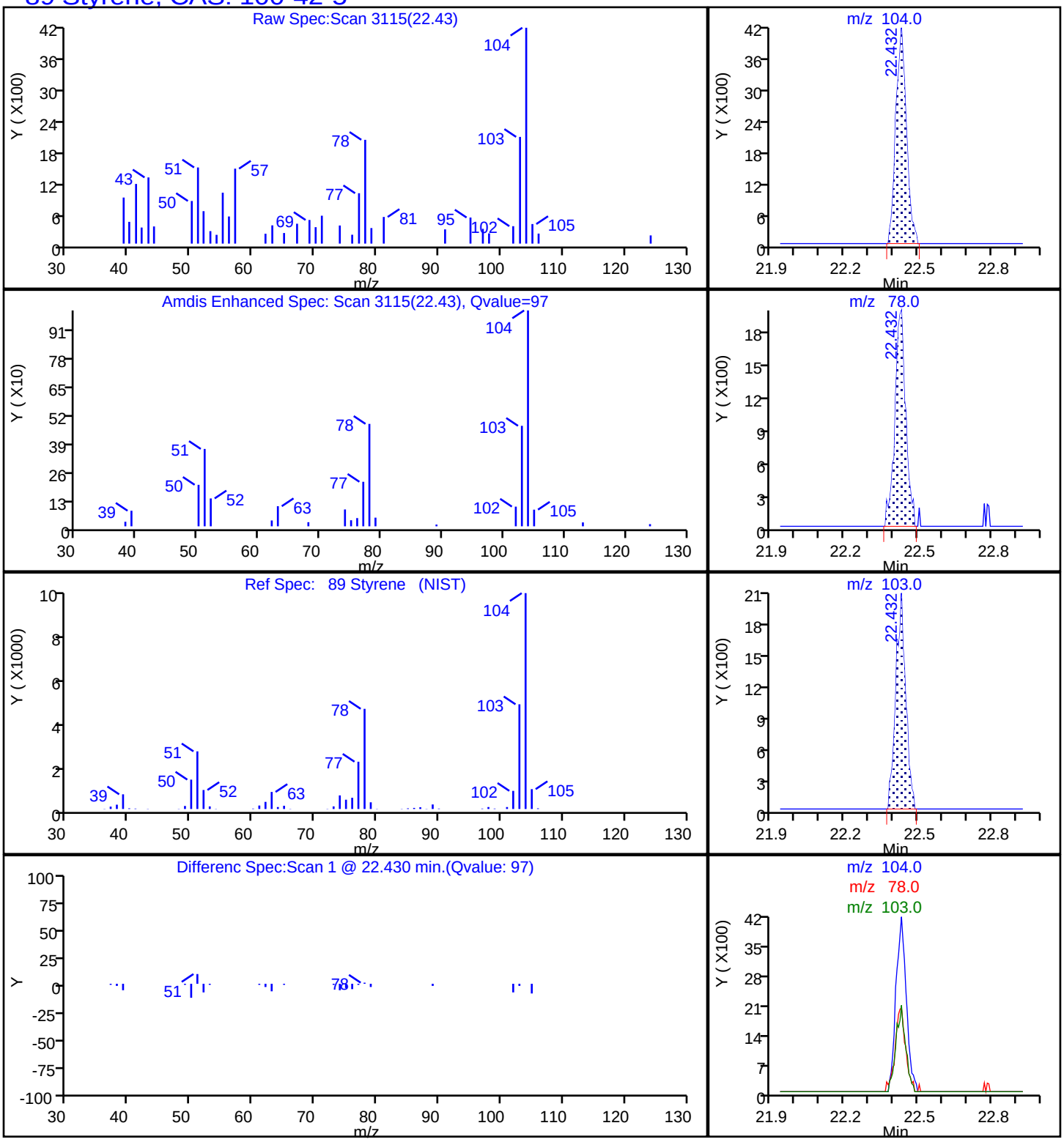
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

89 Styrene, CAS: 100-42-5



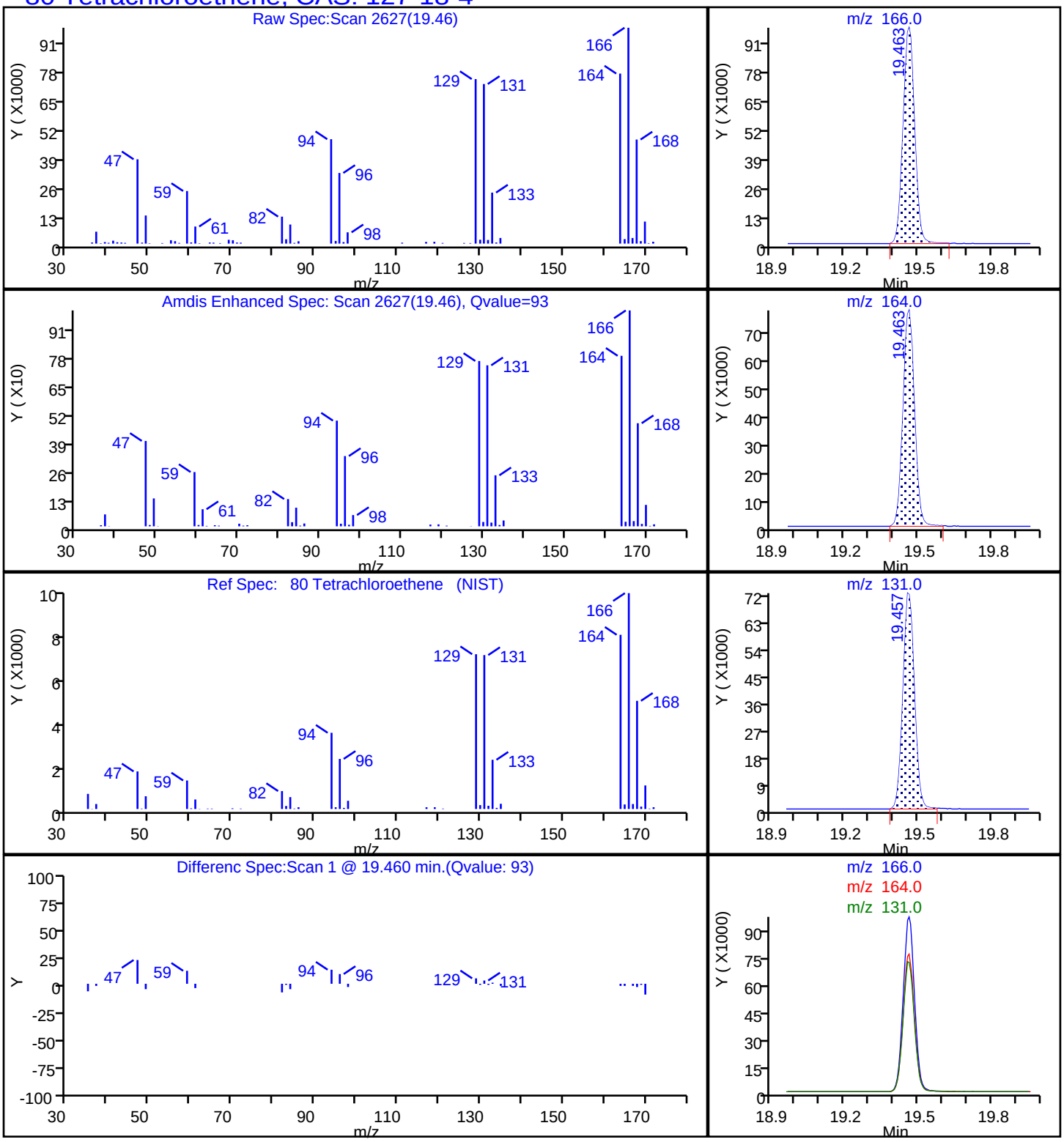
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



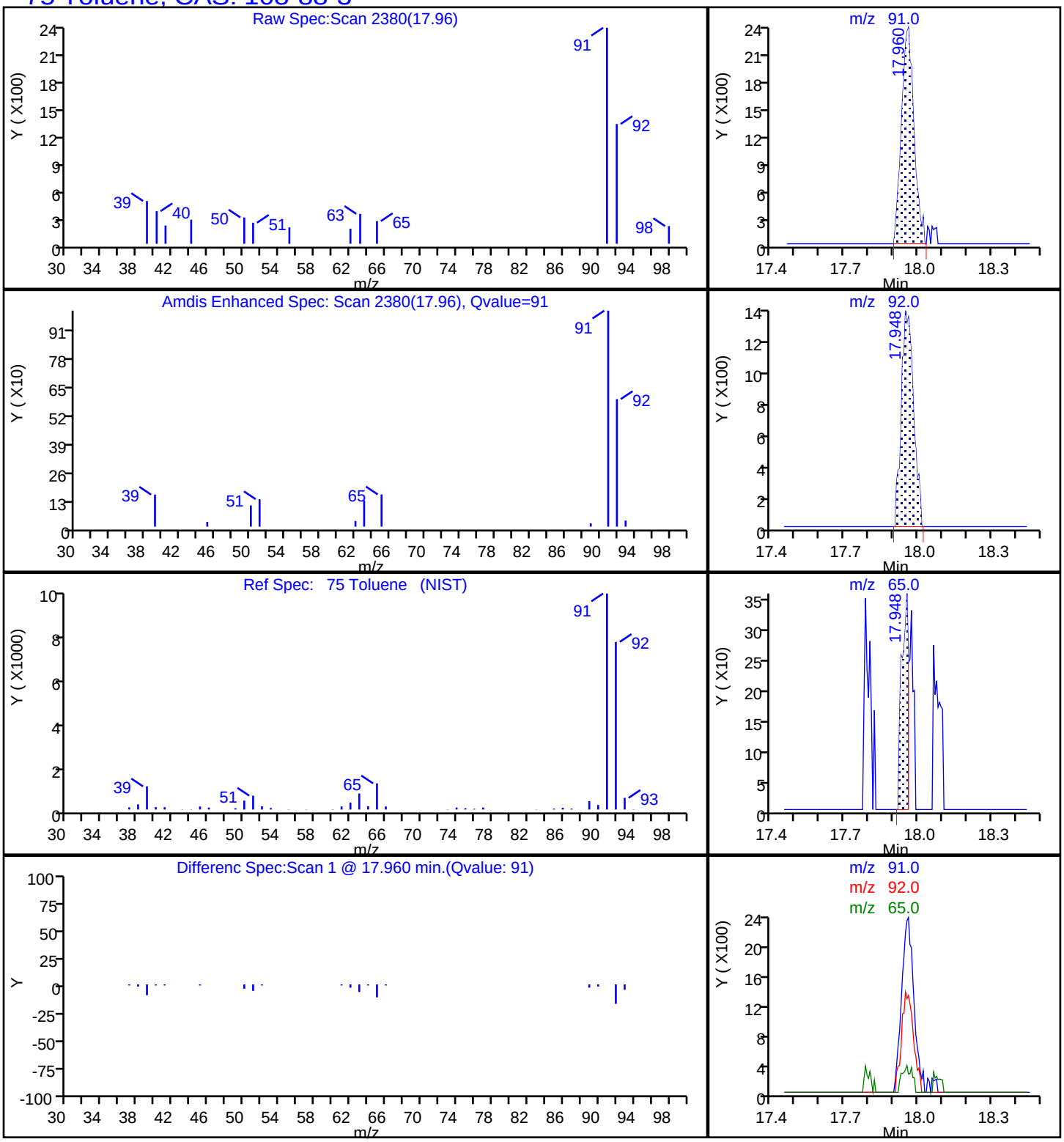
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



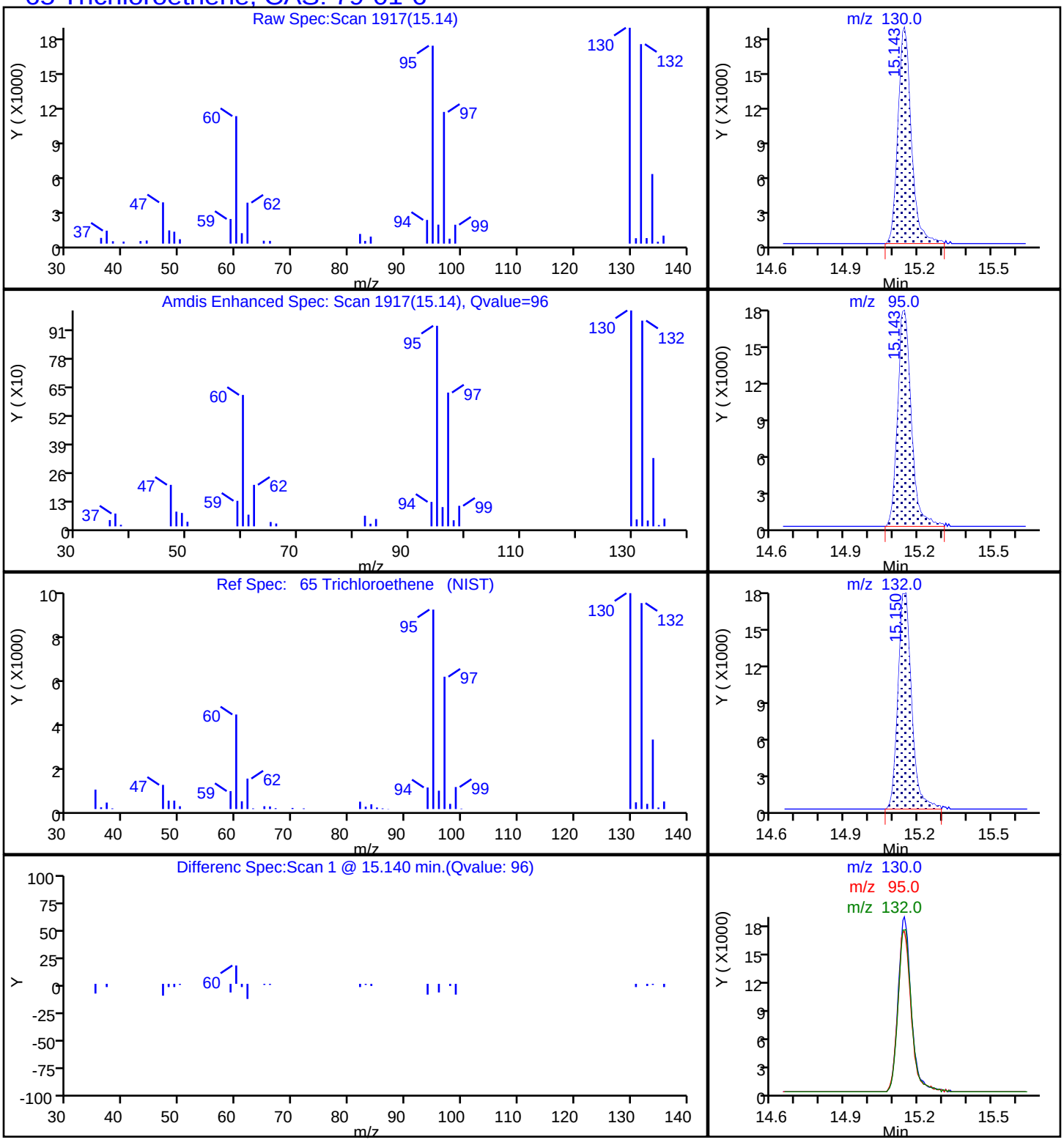
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



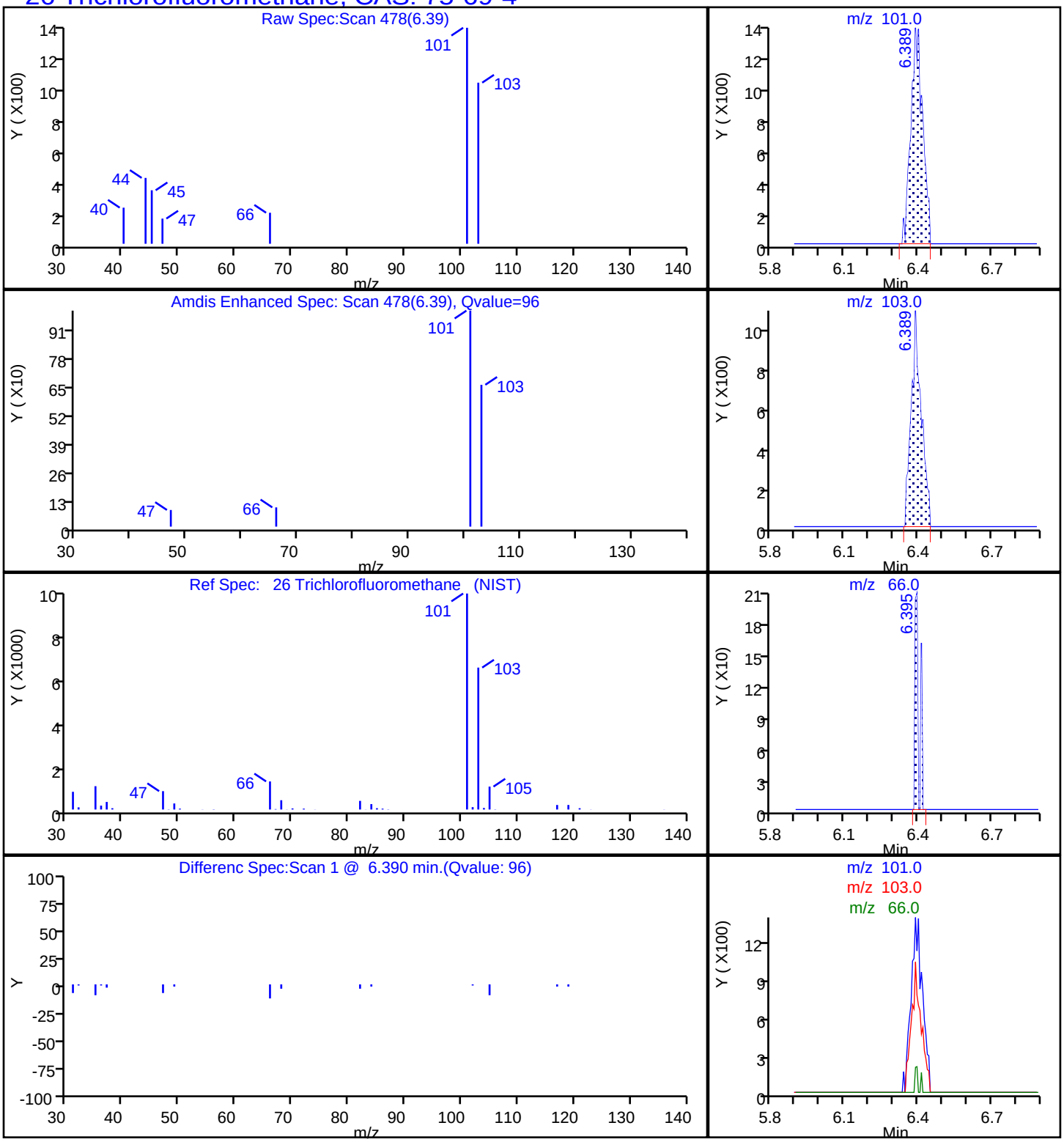
Report Date: 05-Apr-2018 17:20:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D

Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8
Client ID:	776VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

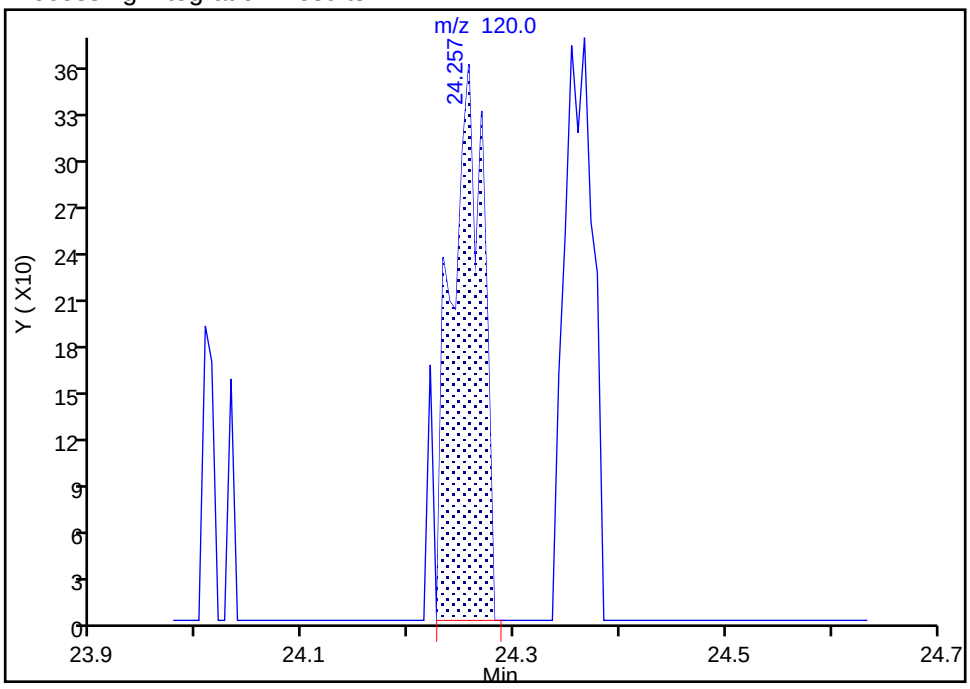
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Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8		
Client ID:	776VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

104 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

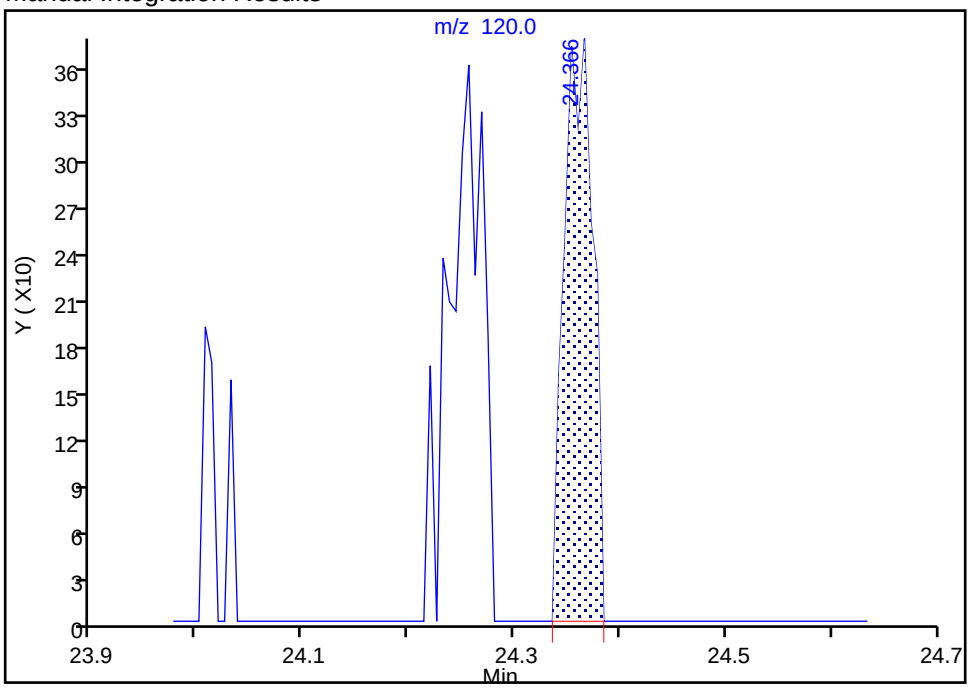
Processing Integration Results

RT: 24.26
Area: 739
Amount: 0.026837
Amount Units: ppb v/v



Manual Integration Results

RT: 24.37
Area: 709
Amount: 0.025748
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 17:20:19

Audit Action: Assigned Compound ID Audit Reason: Split Peak

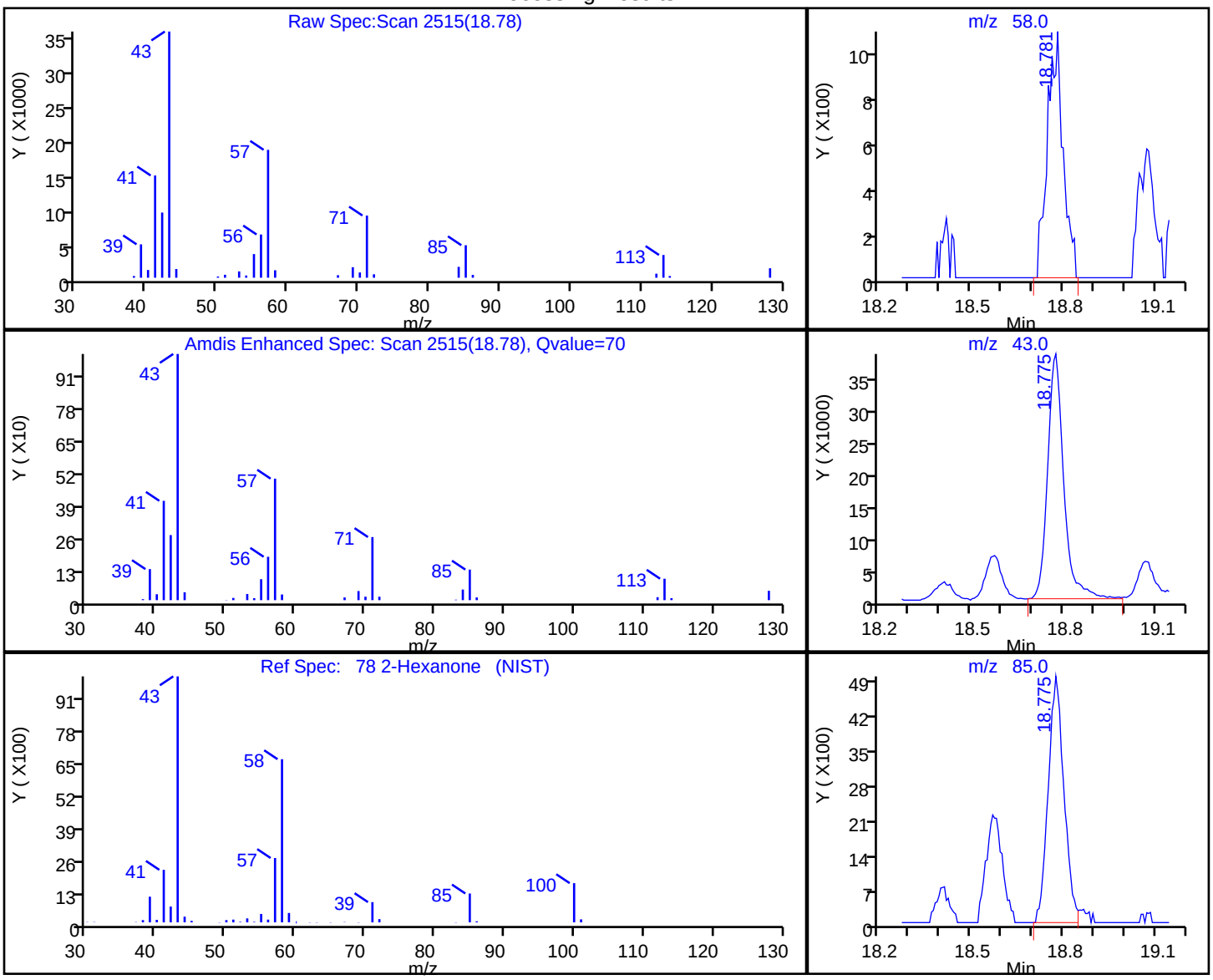
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D				
Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8		
Client ID:	776VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
18.78	58.00	3765	0.187531
18.78	43.00	139660	
18.78	85.00	17741	

Reviewer: phanthasena, 05-Apr-2018 17:20:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

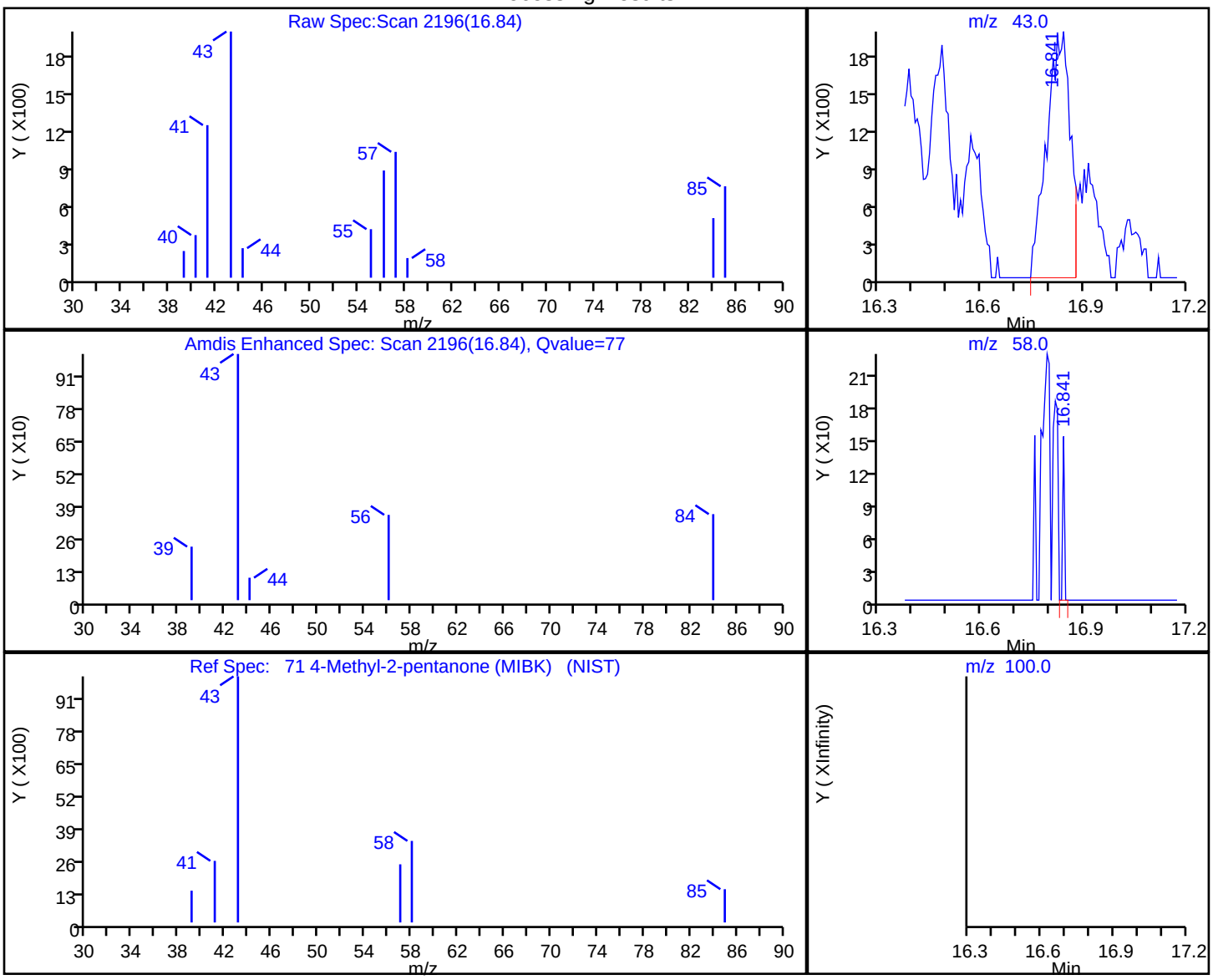
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D				
Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8		
Client ID:	776VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

71 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
16.84	43.00	9190	0.216399
16.84	58.00	56	
16.77	100.00	0	

Reviewer: phanthasena, 05-Apr-2018 17:20:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

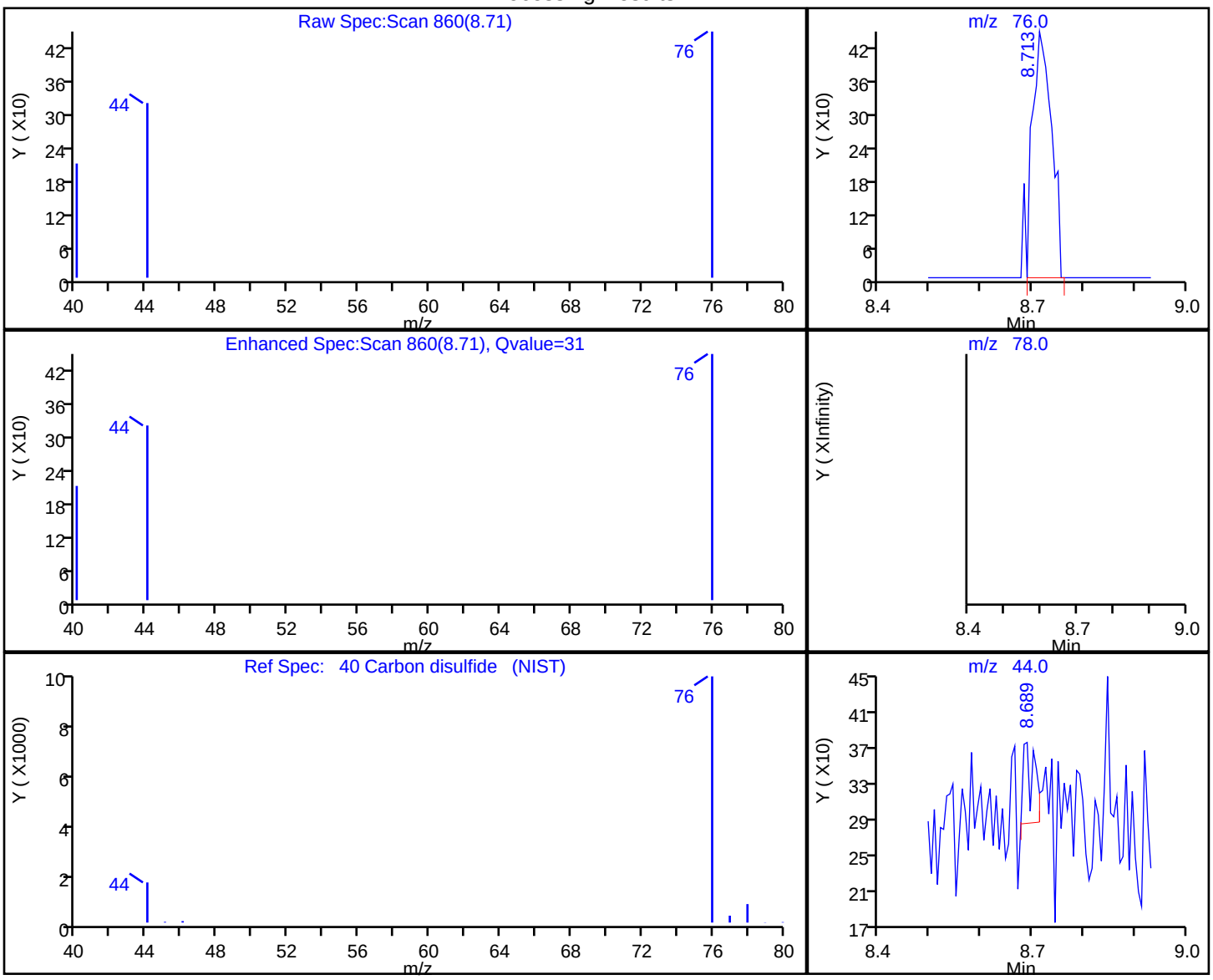
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040419.D				
Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8		
Client ID:	776VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.71	76.00	1140	0.079908
8.71	78.00	0	
8.69	44.00	132	

Reviewer: phanthasena, 05-Apr-2018 17:20:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

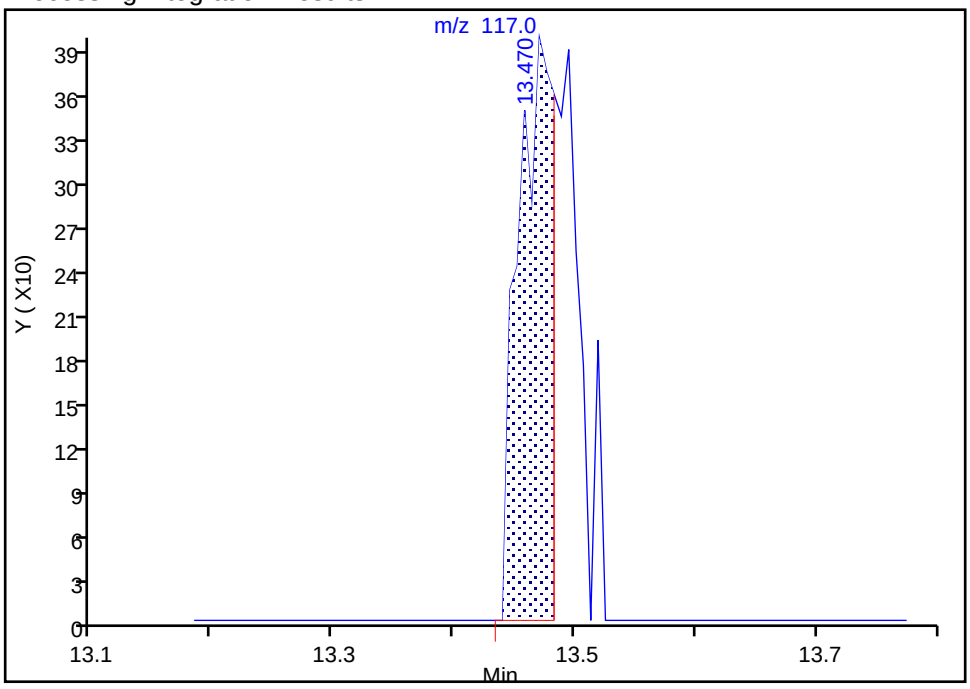
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Injection Date:	05-Apr-2018 02:13:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-8	Lab Sample ID:	320-37345-8		
Client ID:	776VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

59 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

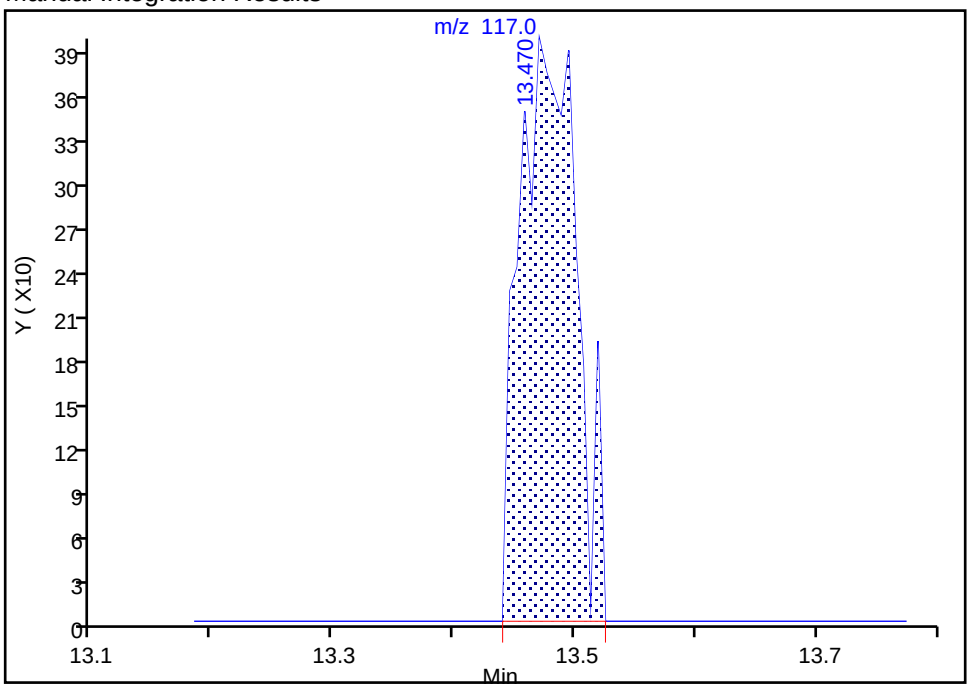
Processing Integration Results

RT: 13.47
Area: 803
Amount: 0.037666
Amount Units: ppb v/v



Manual Integration Results

RT: 13.47
Area: 1291
Amount: 0.060556
Amount Units: ppb v/v



Reviewer: phanthasena, 05-Apr-2018 17:19:39

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776OA-1_0318 | Lab Sample ID: 320-37345-10

Matrix: Air | Lab File ID: MS7040510.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:05

Sample wt/vol: 331(mL) | Date Analyzed: 04/05/2018 19:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	8.3	J	12	0.95	0.42
71-43-2	Benzene	0.49	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	1.6	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776OA-1_0318 | Lab Sample ID: 320-37345-10

Matrix: Air | Lab File ID: MS7040510.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:05

Sample wt/vol: 331(mL) | Date Analyzed: 04/05/2018 19:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.9	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.87	U	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.52	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.87	U M	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.53	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.6	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-130
460-00-4	4-Bromofluorobenzene (Surr)	84		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D
Lims ID: 320-37345-A-10
Client ID: 776OA-1_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 19:18:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-10
Misc. Info.: 331 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:34:52 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:34:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.241	12.223	0.018	92	27495	4.00	
* 2 1,4-Difluorobenzene	114	14.401	14.383	0.018	96	124036	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.075	21.063	0.012	92	116705	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.446	13.428	0.018	97	53120	4.54	
$ 5 Toluene-d8 (Surr)	100	17.802	17.784	0.018	97	83305	3.86	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.606	0.012	86	72959	3.37	
13 Dichlorodifluoromethane	85	3.913	3.909	0.006	74	4370	0.3943	
16 Chloromethane	50	4.375	4.357	0.018	98	4720	0.7944	
26 Trichlorofluoromethane	101	6.401	6.392	0.012	96	4258	0.2805	
32 Acetone	43	7.356	7.302	0.054	96	45323	3.51	
33 1,1,2-Trichloro-1,2,2-trif	101	7.490	7.502	0.018	52	732	0.0587	
39 Methylene Chloride	49	8.683	8.658	0.025	90	1580	0.1499	
48 2-Butanone (MEK)	72	11.238	11.176	0.067	94	1413	0.4021	
51 cis-1,2-Dichloroethene	96	11.609	11.602	0.018	83	230	0.0348	
59 Carbon tetrachloride	117	13.495	13.488	0.012	79	1051	0.0600	
63 Benzene	78	13.775	13.762	0.019	89	3554	0.1528	
75 Toluene	91	17.972	17.968	0.012	96	4596	0.1404	
87 m-Xylene & p-Xylene	91	21.531	21.531	0.036	1	1447	0.0458	a

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

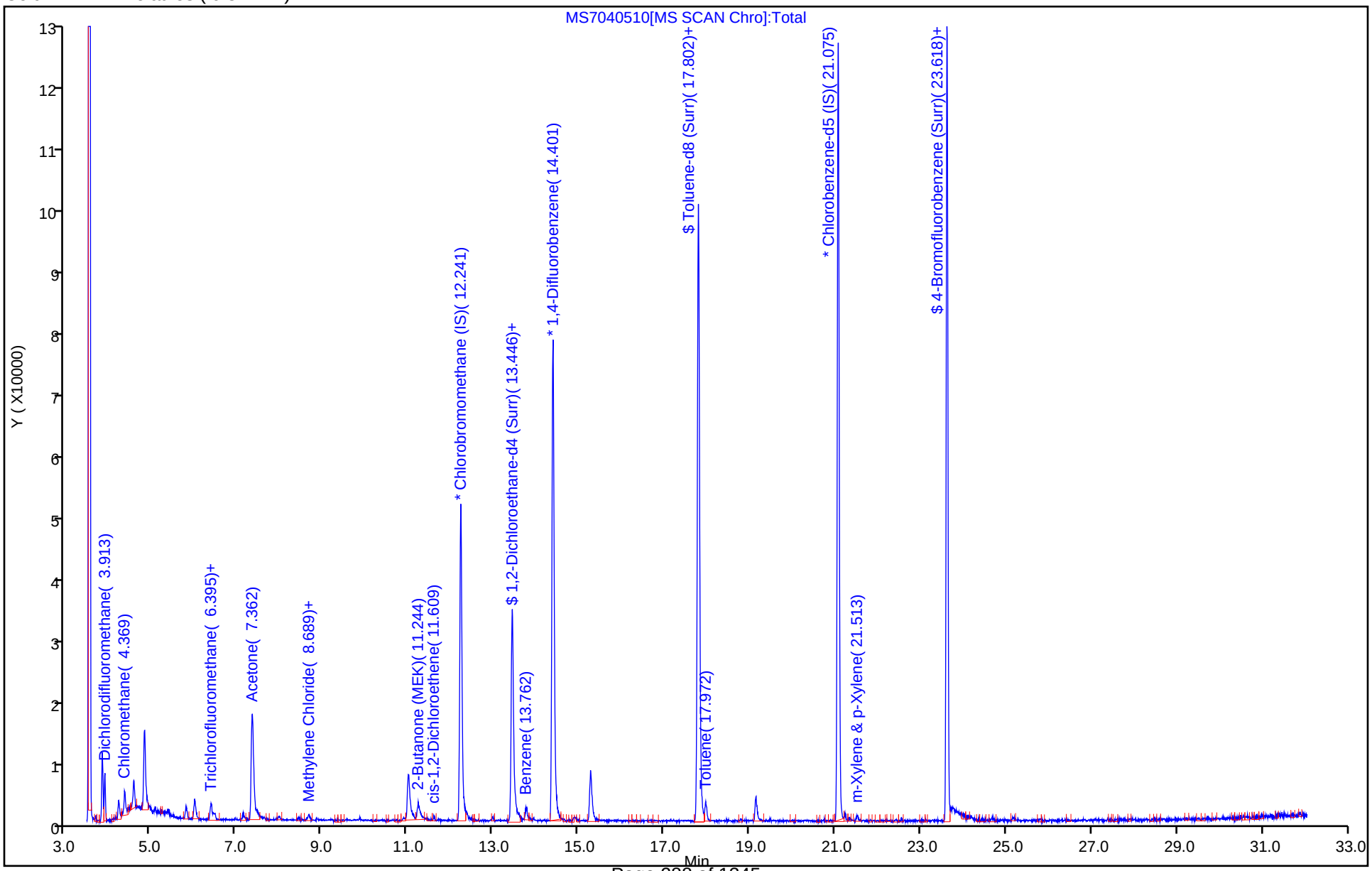
Report Date: 06-Apr-2018 11:34:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10	Worklist Smp#:	8
Client ID:	776OA-1_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D
Lims ID: 320-37345-A-10
Client ID: 776OA-1_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 19:18:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-10
Misc. Info.: 331 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:34:52 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:34:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.54	113.52
$ 5 Toluene-d8 (Surr)	4.00	3.86	96.39
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.37	84.13

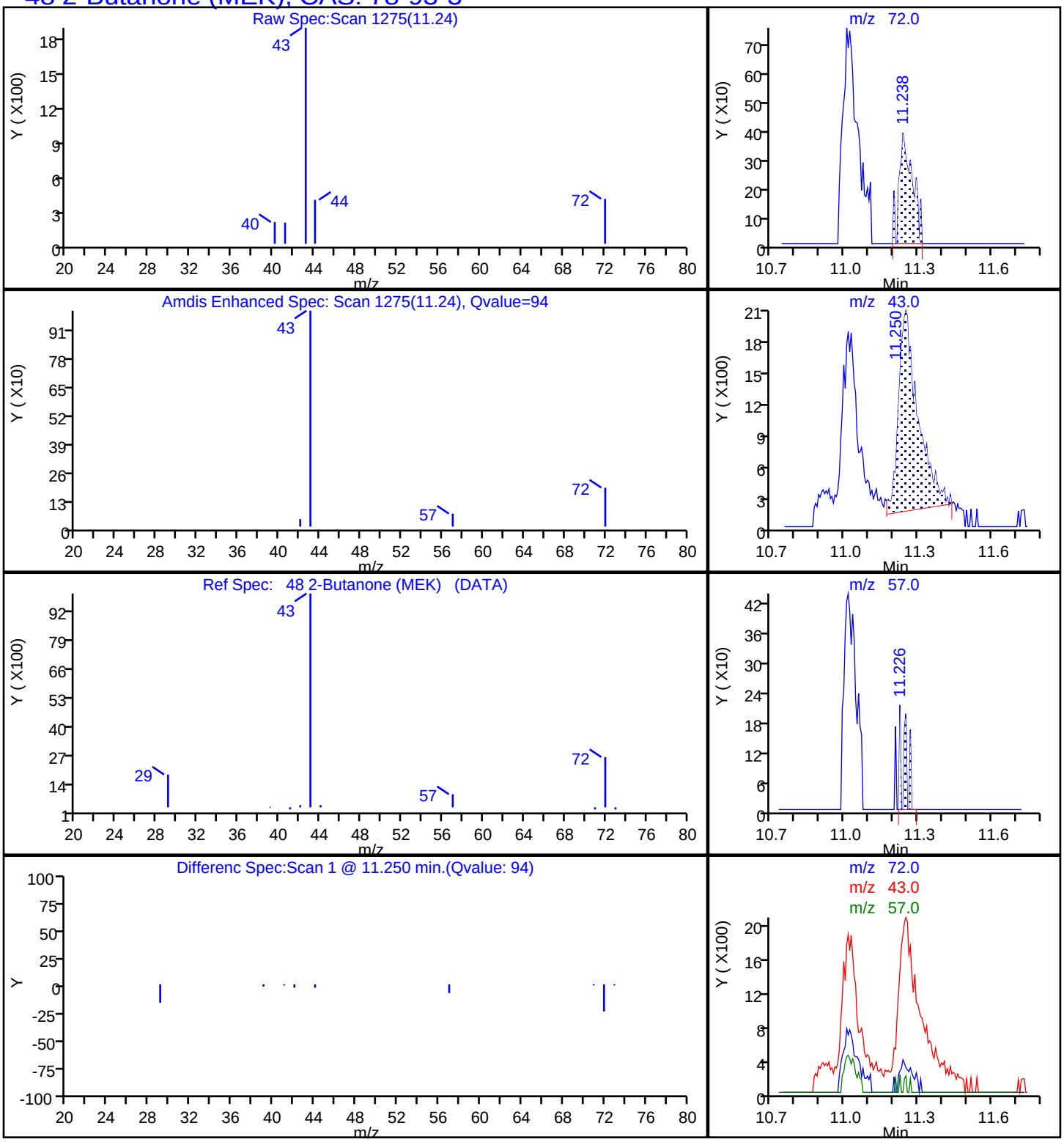
Report Date: 06-Apr-2018 11:34:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



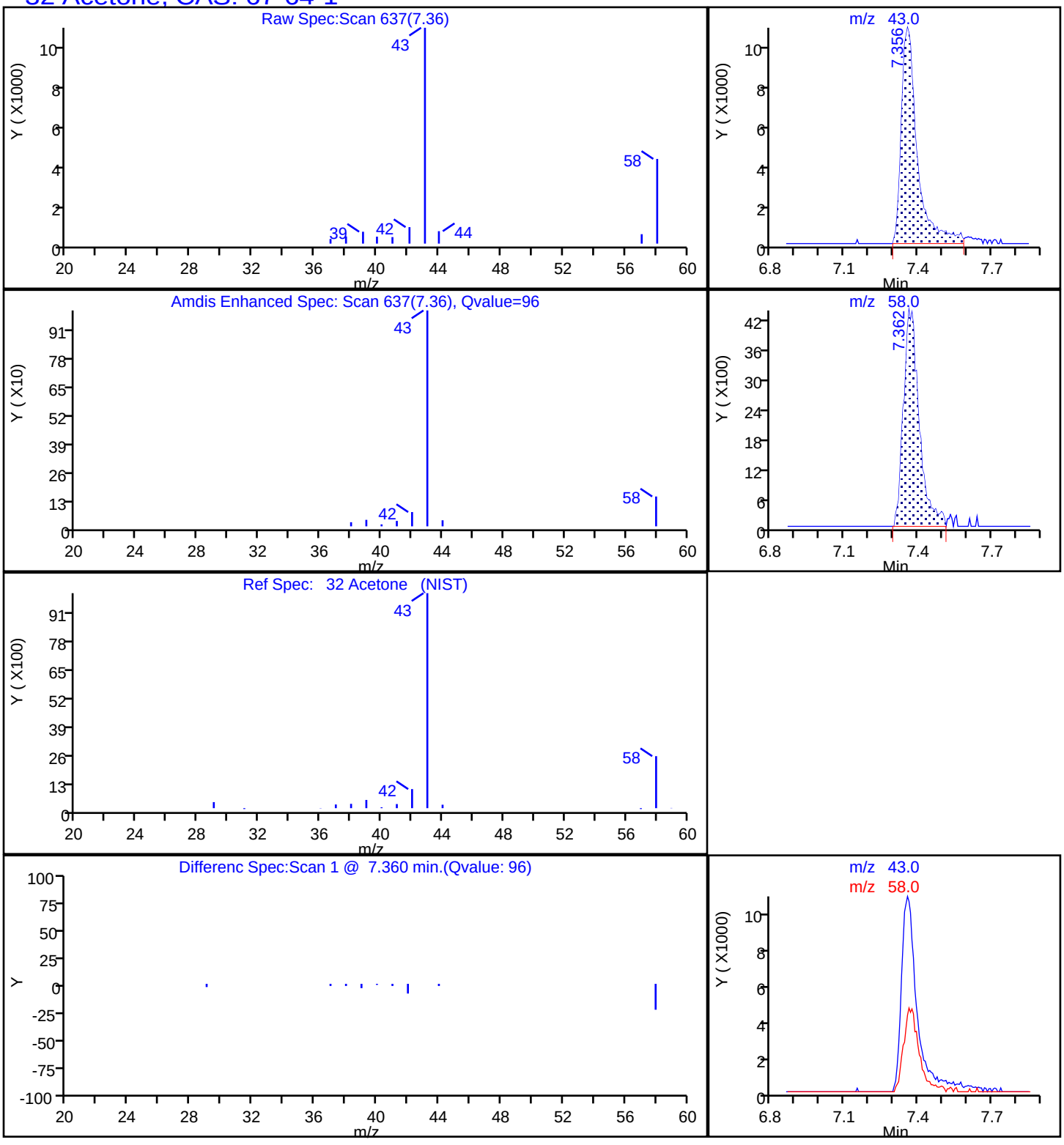
Report Date: 06-Apr-2018 11:34:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

32 Acetone, CAS: 67-64-1



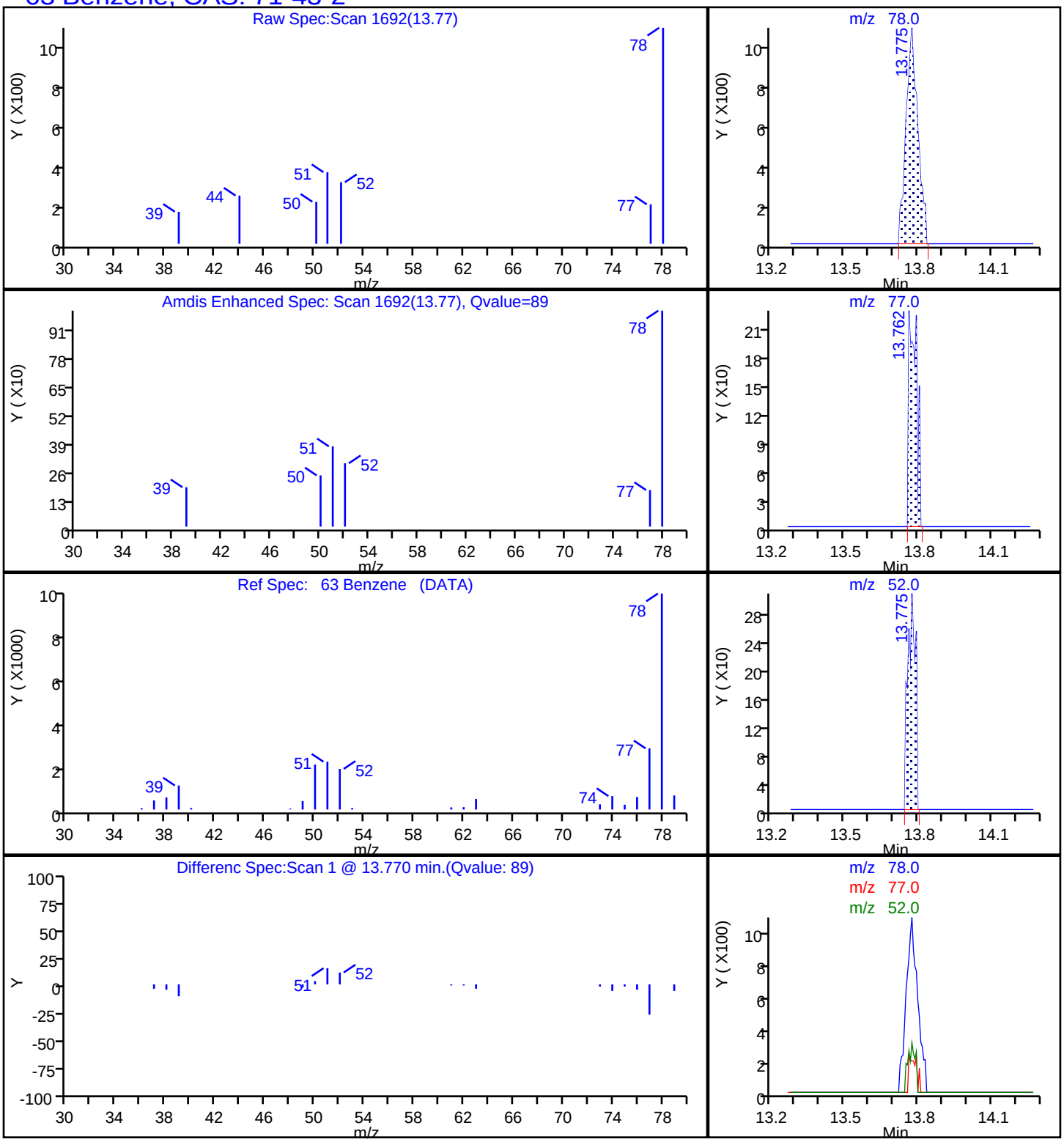
Report Date: 06-Apr-2018 11:34:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



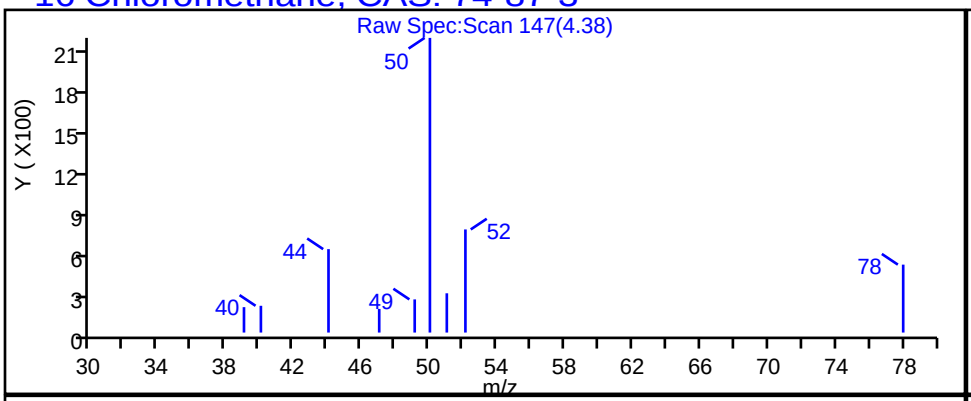
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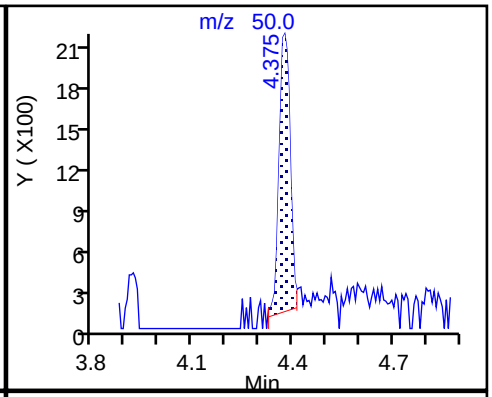
TestAmerica Sacramento

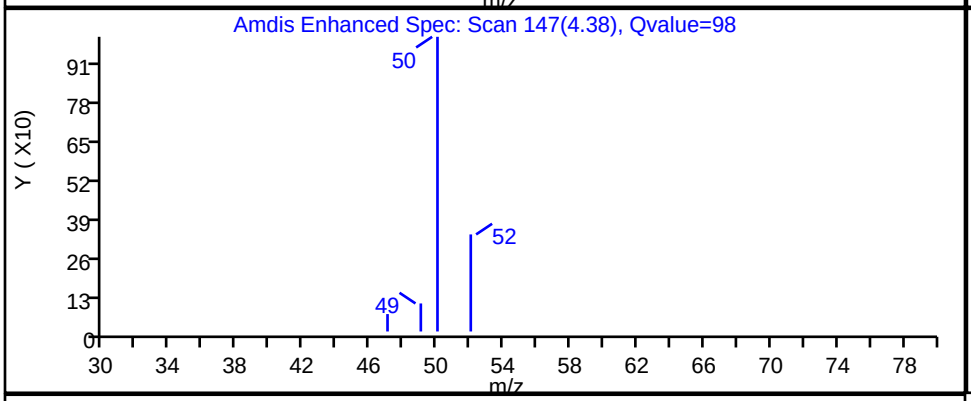
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

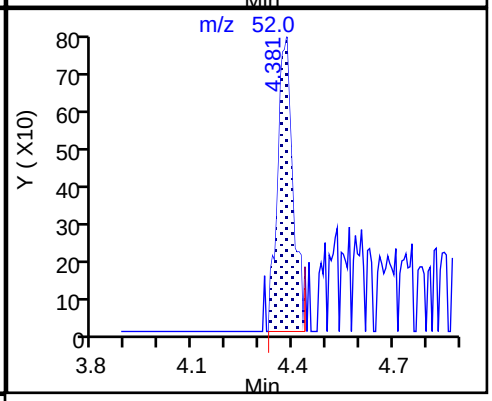
Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

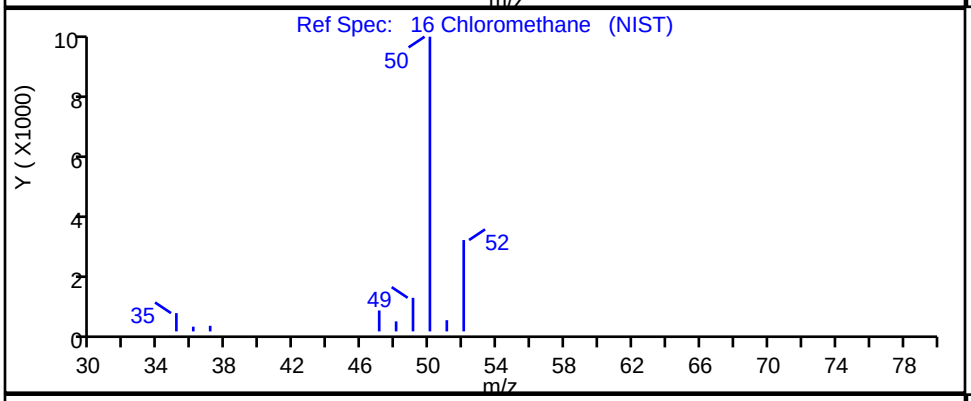
16 Chloromethane, CAS: 74-87-3

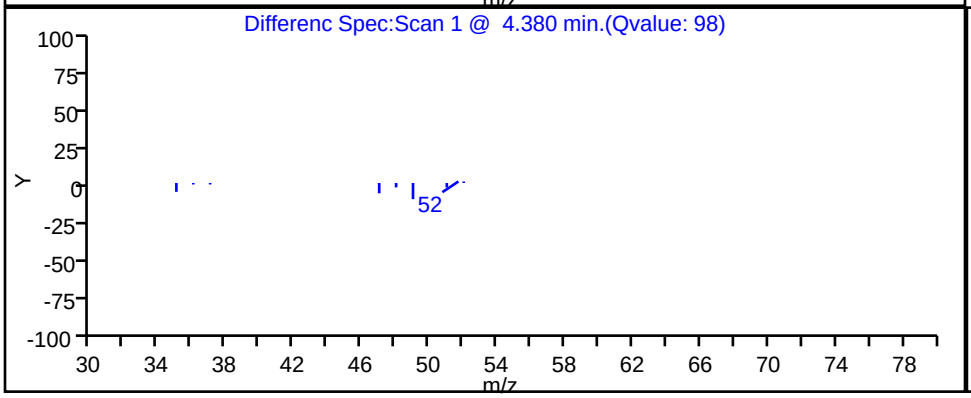


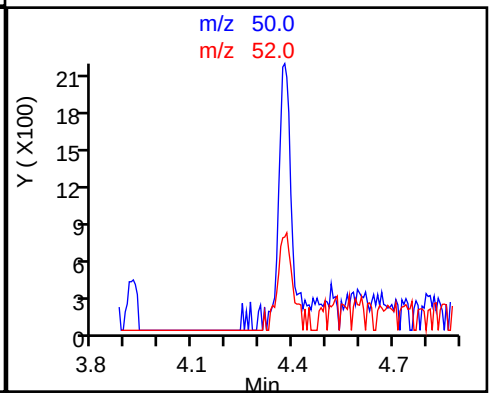












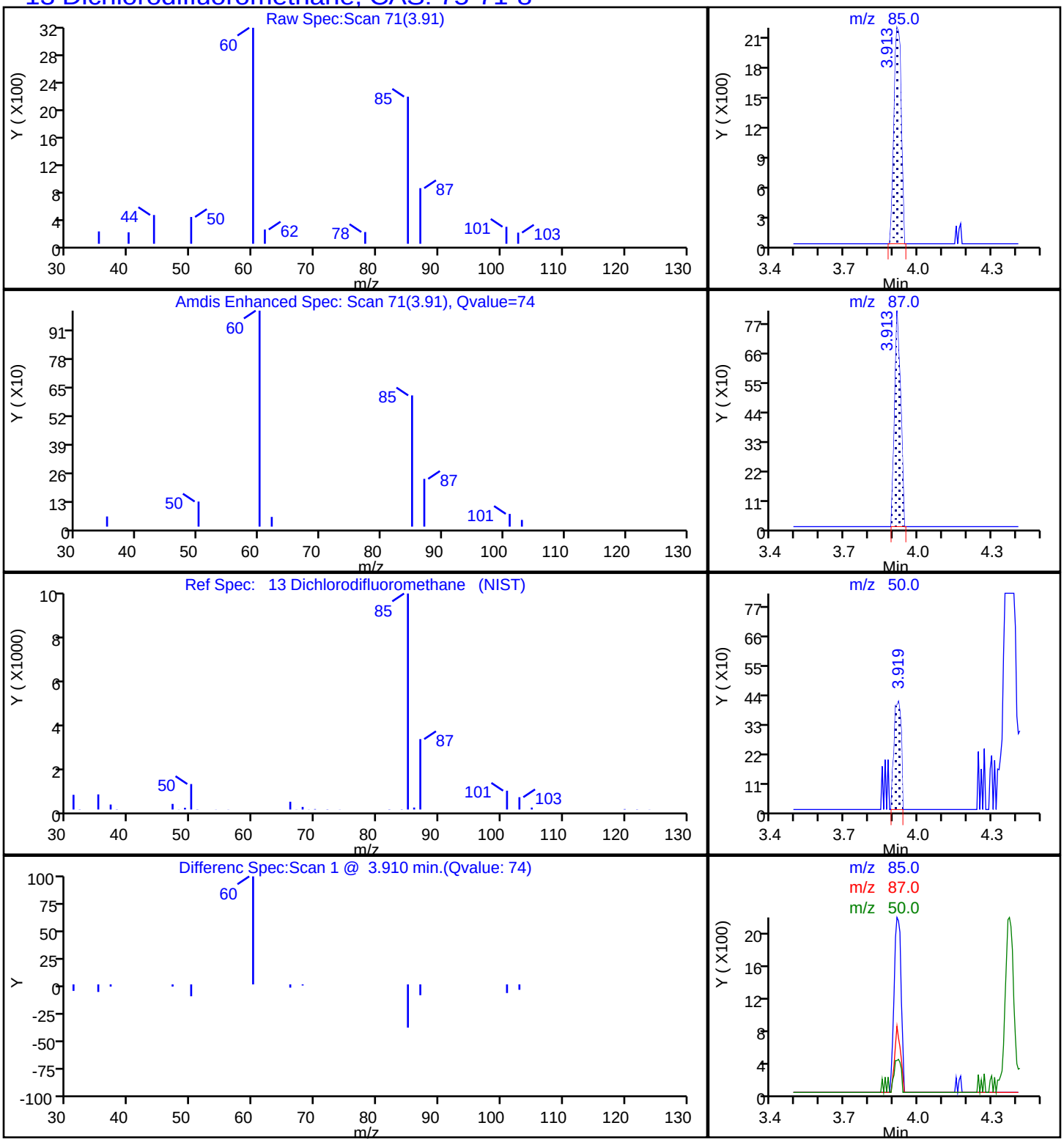
Report Date: 06-Apr-2018 11:34:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



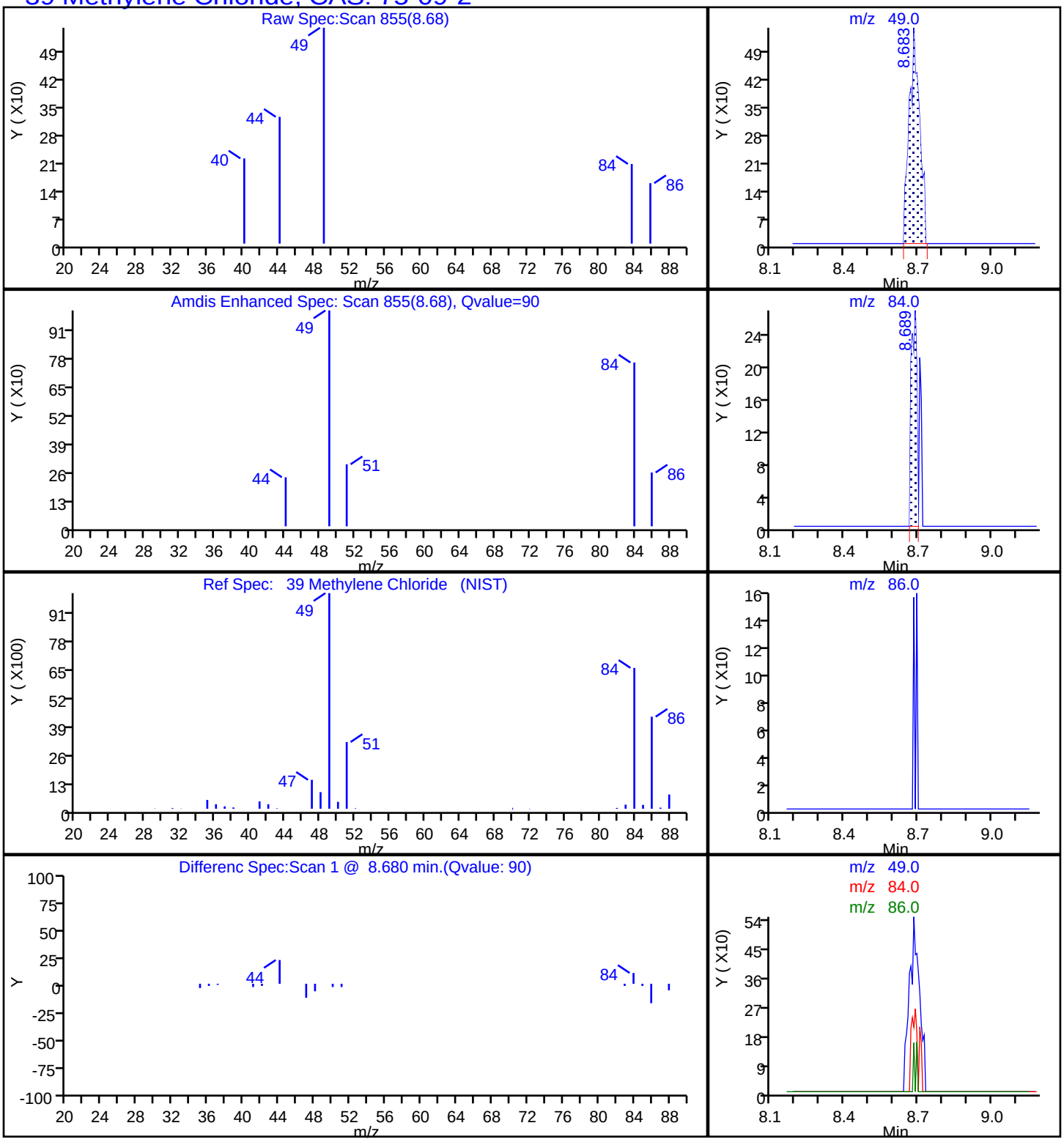
Report Date: 06-Apr-2018 11:34:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



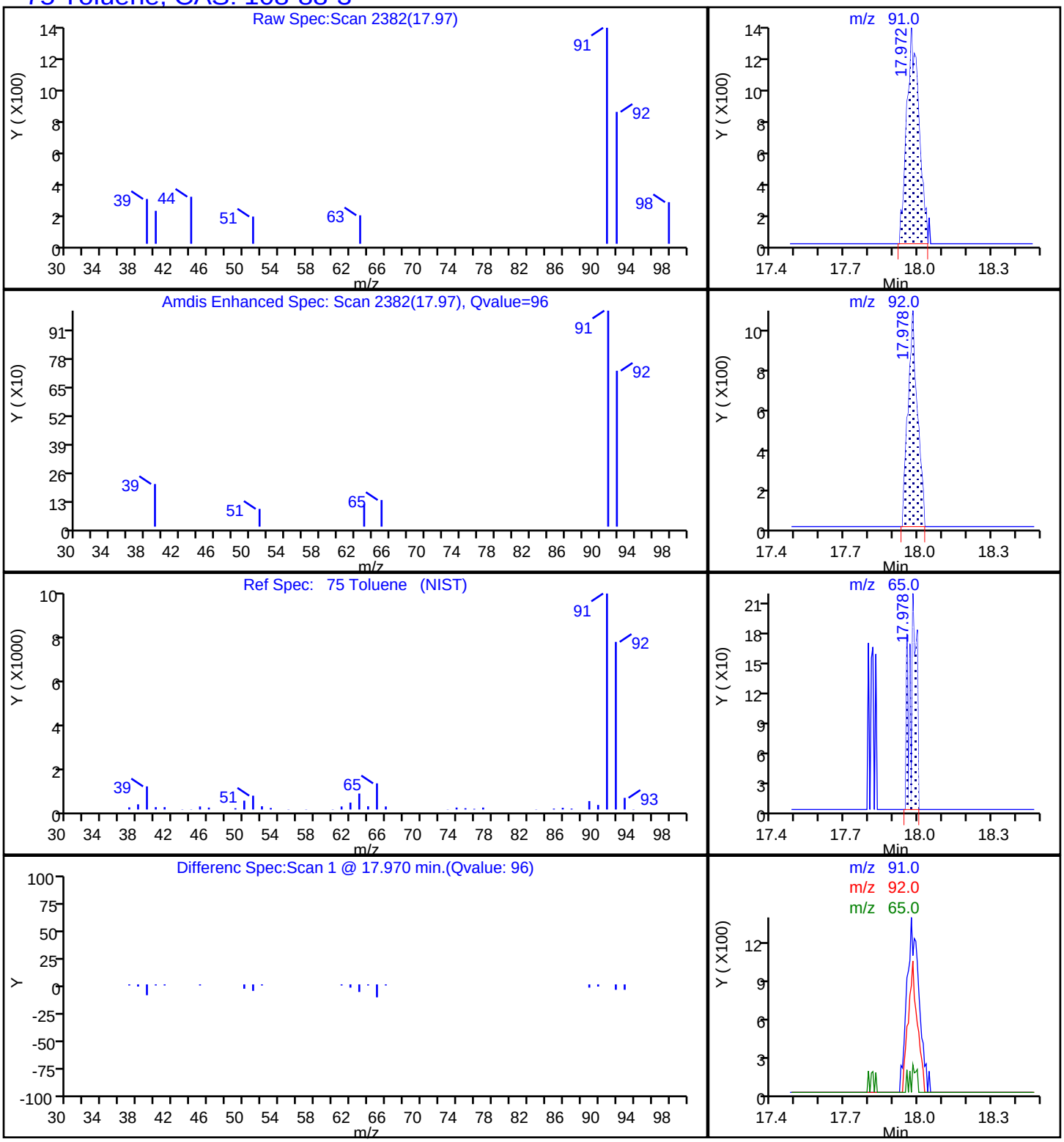
Report Date: 06-Apr-2018 11:34:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



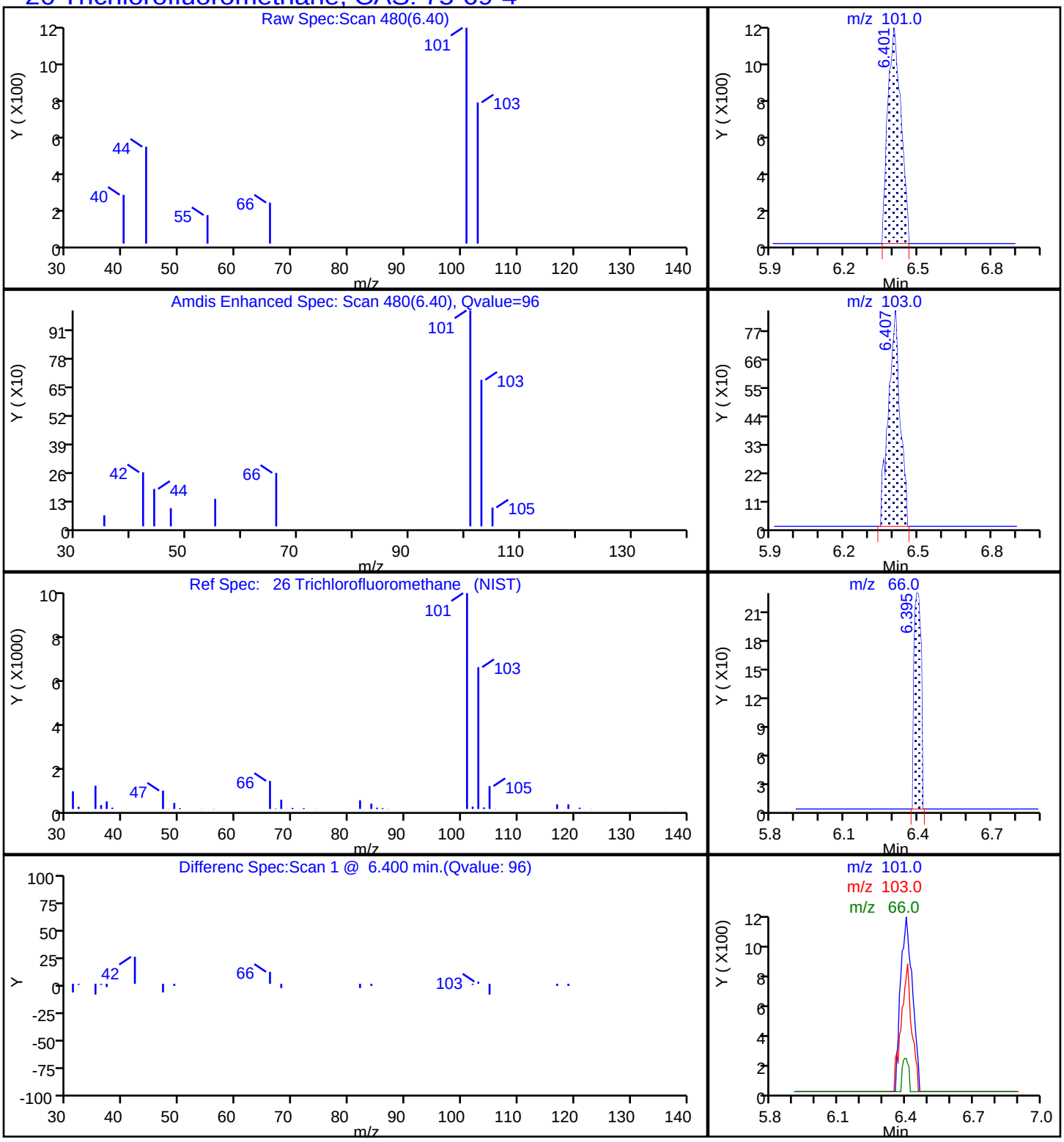
Report Date: 06-Apr-2018 11:34:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D

Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10
Client ID:	776OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	6 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

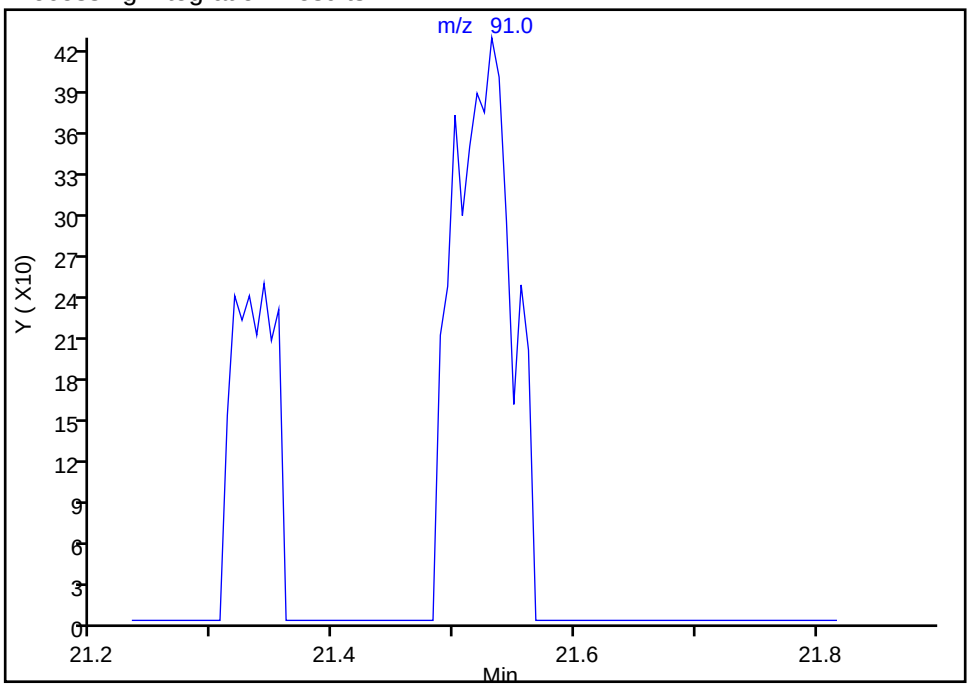
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040510.D				
Injection Date:	05-Apr-2018 19:18:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-10	Lab Sample ID:	320-37345-10		
Client ID:	776OA-1_0318				
Operator ID:	LHS	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

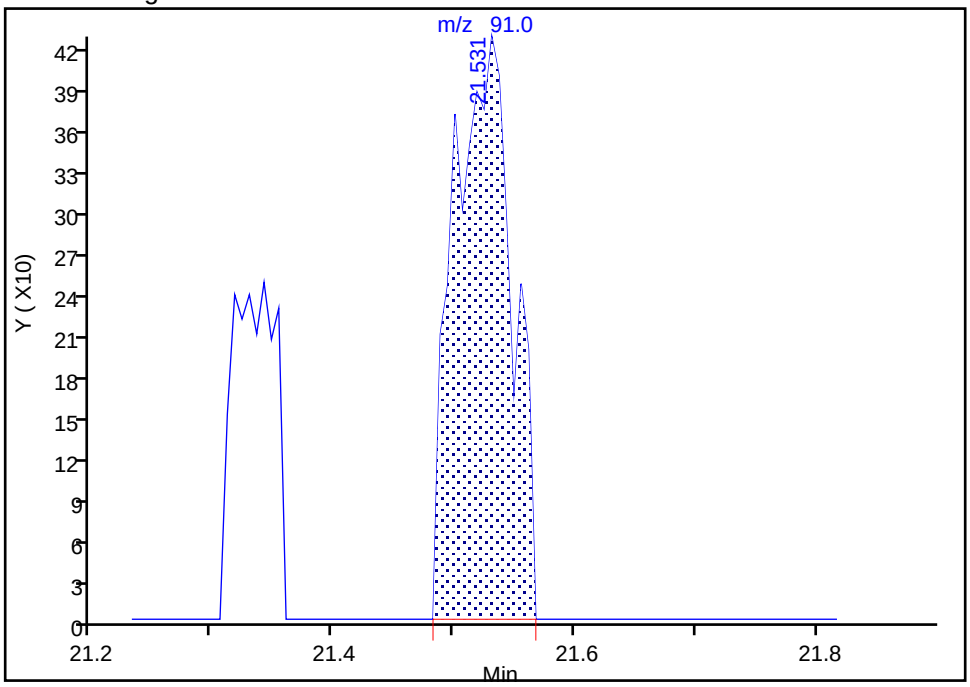
Not Detected
Expected RT: 21.49

Processing Integration Results



Manual Integration Results

RT: 21.53
Area: 1447
Amount: 0.045808
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:34:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-2_0318 | Lab Sample ID: 320-37345-11

Matrix: Air | Lab File ID: MS7040511.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:55

Sample wt/vol: 394(mL) | Date Analyzed: 04/05/2018 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	1.1	J	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	2.7		2.4	1.2	0.59
591-78-6	2-Hexanone	0.47	J	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U M	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	13		12	0.95	0.42
71-43-2	Benzene	0.71	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U M	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	2.5		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-2_0318 | Lab Sample ID: 320-37345-11

Matrix: Air | Lab File ID: MS7040511.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:55

Sample wt/vol: 394(mL) | Date Analyzed: 04/05/2018 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.7	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.30	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.45	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	1.0	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U M	10	6.3	2.9
95-47-6	o-Xylene	0.48	J	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.93	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	13		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.5	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D
Lims ID: 320-37345-A-11
Client ID: 785VMP-2_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 20:15:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-11
Misc. Info.: 394 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:37:10 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:37:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.229	12.223	0.006	93	27962	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.383	0.006	96	116435	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.063	0.006	92	117898	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.440	13.428	0.012	96	49909	4.54	
$ 5 Toluene-d8 (Surr)	100	17.796	17.784	0.012	98	80619	3.98	
$ 6 4-Bromofluorobenzene (Surr	95	23.612	23.606	0.006	86	86261	3.94	
13 Dichlorodifluoromethane	85	3.913	3.909	0.006	96	3882	0.3444	
16 Chloromethane	50	4.376	4.357	0.019	99	7379	1.22	
26 Trichlorofluoromethane	101	6.414	6.392	0.025	89	3990	0.2585	
32 Acetone	43	7.332	7.302	0.030	100	70609	5.38	
33 1,1,2-Trichloro-1,2,2-trif	101	7.496	7.496	0.024	88	1463	0.1153	M
39 Methylene Chloride	49	8.683	8.658	0.025	79	1376	0.1283	
48 2-Butanone (MEK)	72	11.207	11.176	0.036	93	3326	0.9307	
55 1,1,1-Trichloroethane	97	12.893	12.918	-0.006	63	602	0.0386	
59 Carbon tetrachloride	117	13.483	13.483	0.000	1	1154	0.0701	M
63 Benzene	78	13.762	13.762	0.006	96	4845	0.2219	
65 Trichloroethene	130	15.162	15.169	0.012	97	25662	2.45	
71 4-Methyl-2-pentanone (MIBK	43	16.804	16.783	0.042	87	3573	0.1090	
75 Toluene	91	17.972	17.968	0.012	89	7593	0.2471	
78 2-Hexanone	58	18.757	18.707	0.061	85	1641	0.1144	
86 Ethylbenzene	91	21.330	21.324	0.018	90	2886	0.0700	
87 m-Xylene & p-Xylene	91	21.513	21.531	0.018	97	7393	0.2317	
88 o-Xylene	91	22.407	22.414	0.006	83	3537	0.1113	
102 4-Ethyltoluene	120	24.269	24.269	0.006	95	1710	0.1279	M
104 1,3,5-Trimethylbenzene	120	24.372	24.374	0.012	92	1757	0.0893	
107 1,2,4-Trimethylbenzene	120	25.163	25.165	0.012	97	3867	0.2165	
120 Hexachlorobutadiene	225	30.523	30.540	0.000	67	751	0.0507	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

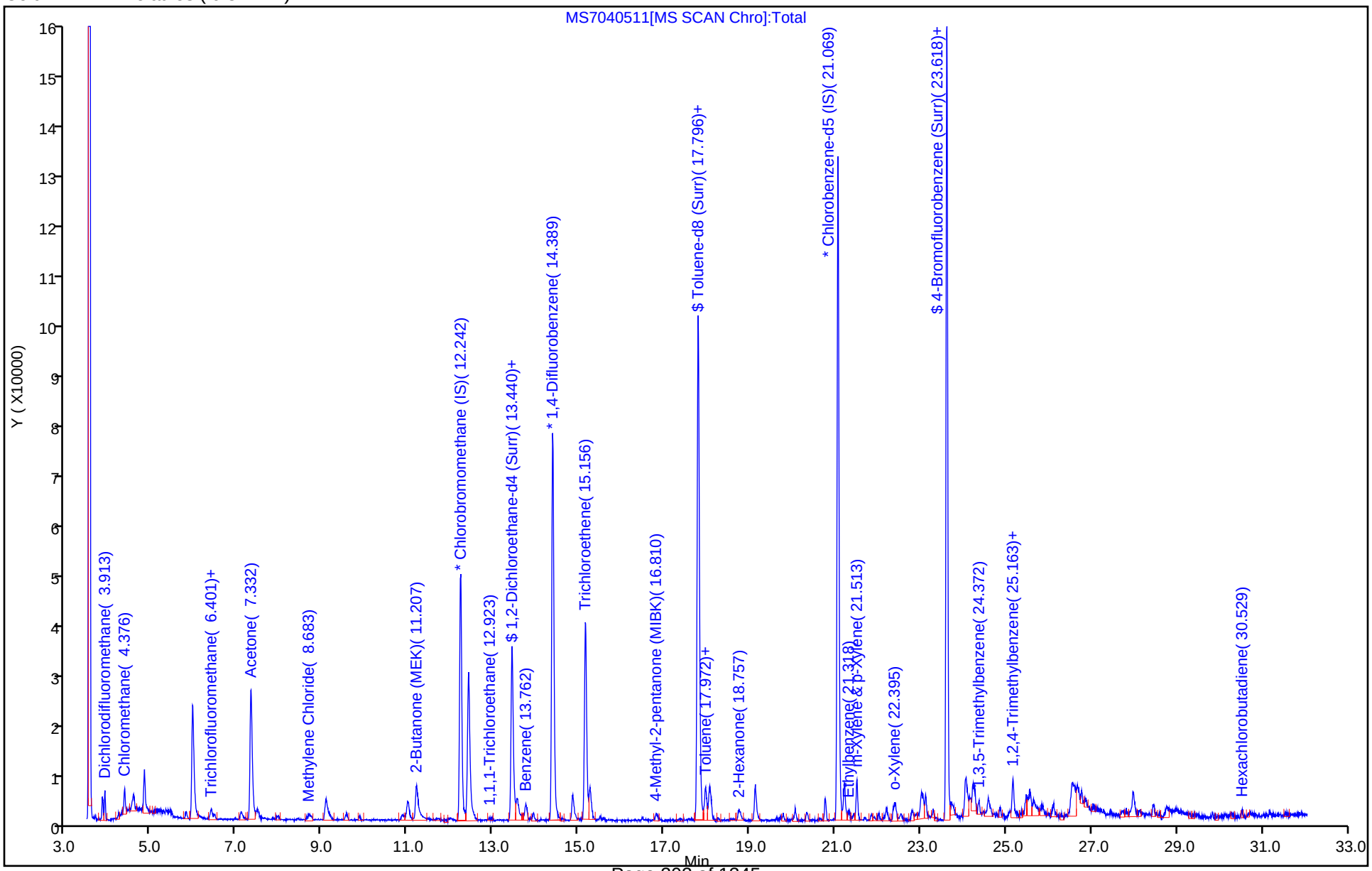
Report Date: 06-Apr-2018 11:37:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11	Worklist Smp#:	9
Client ID:	785VMP-2_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D
Lims ID: 320-37345-A-11
Client ID: 785VMP-2_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 20:15:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-11
Misc. Info.: 394 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:37:10 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:37:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.54	113.62
$ 5 Toluene-d8 (Surr)	4.00	3.98	99.38
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.94	98.47

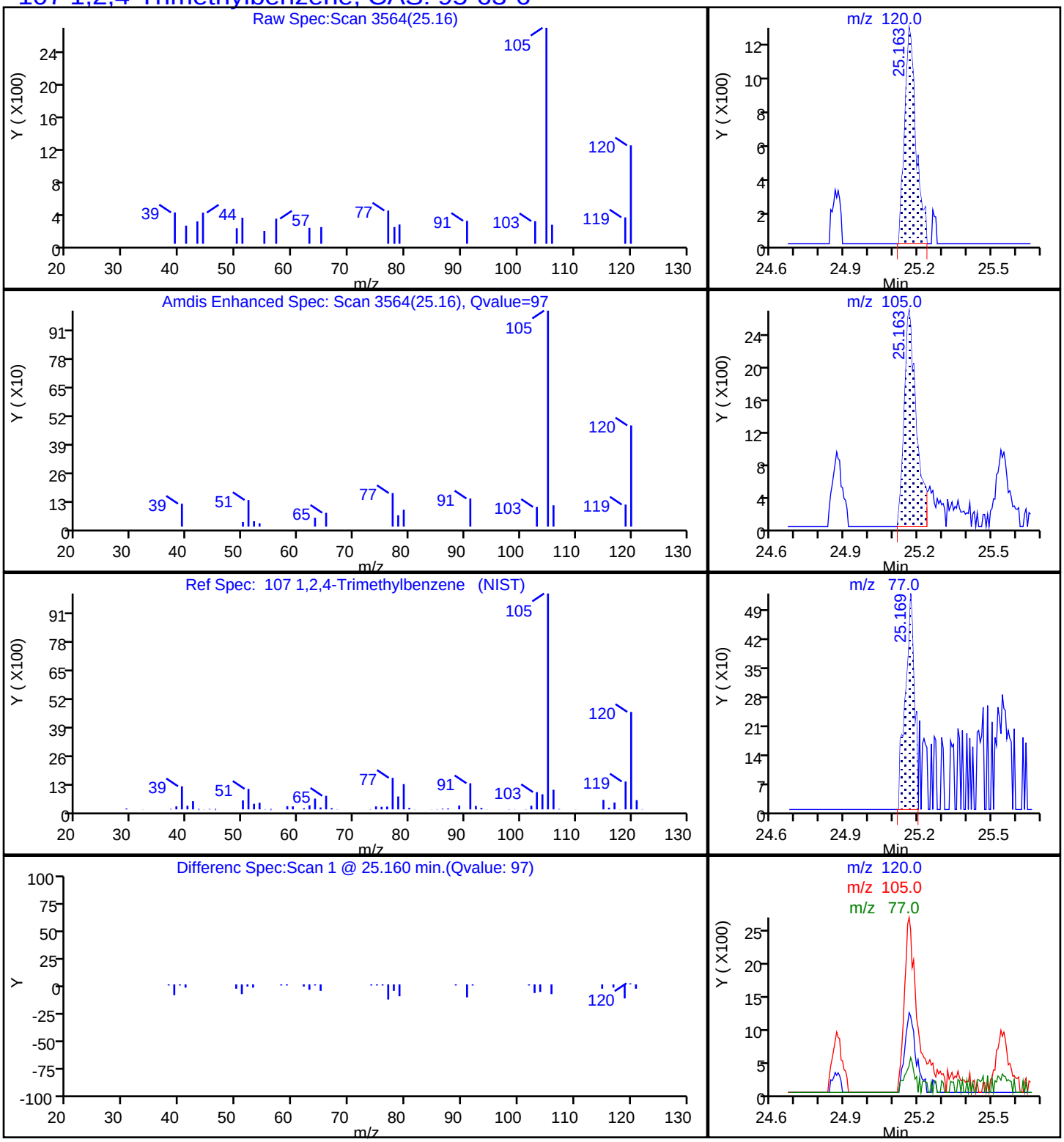
Report Date: 06-Apr-2018 11:37:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

107 1,2,4-Trimethylbenzene, CAS: 95-63-6



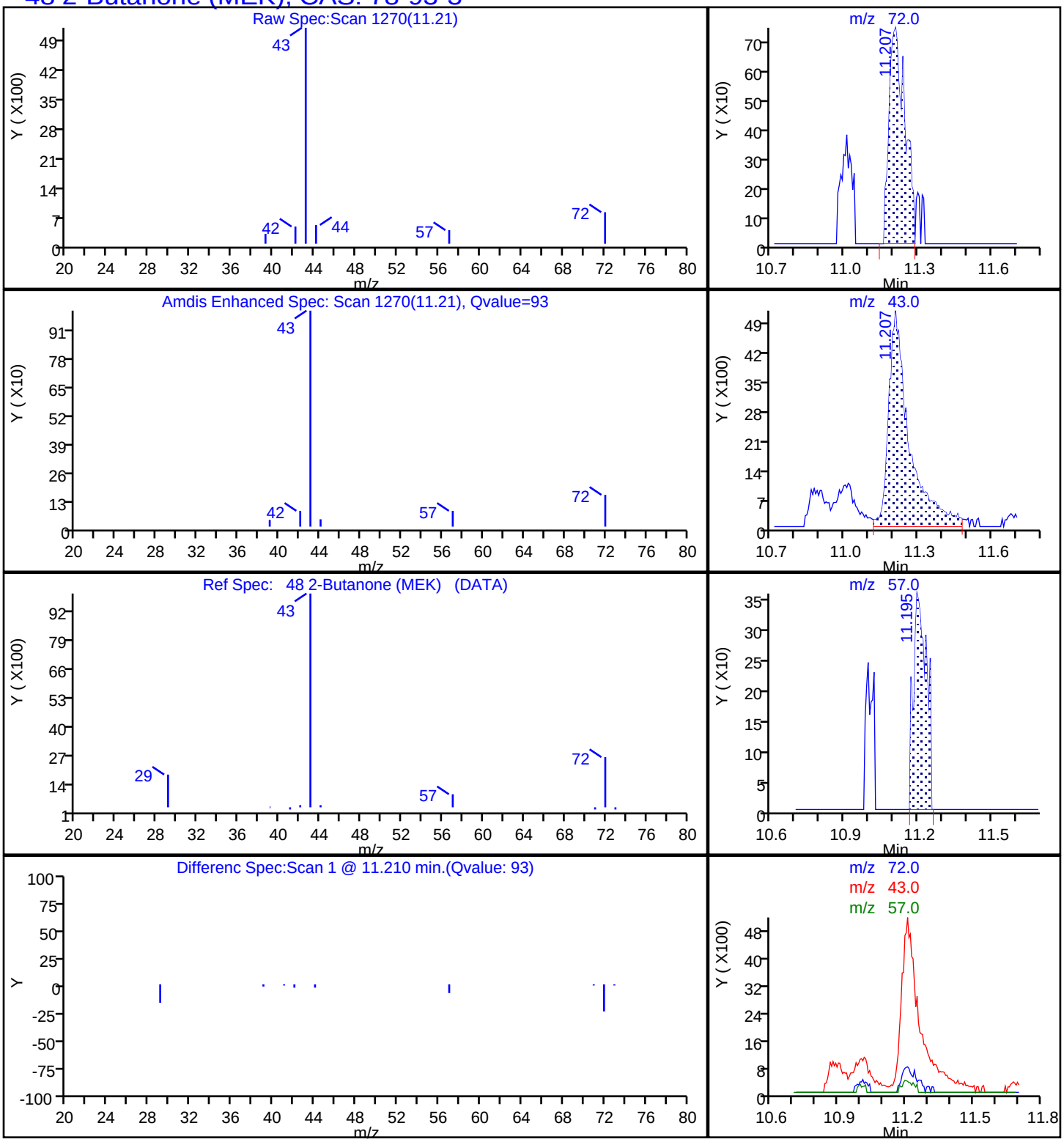
Report Date: 06-Apr-2018 11:37:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



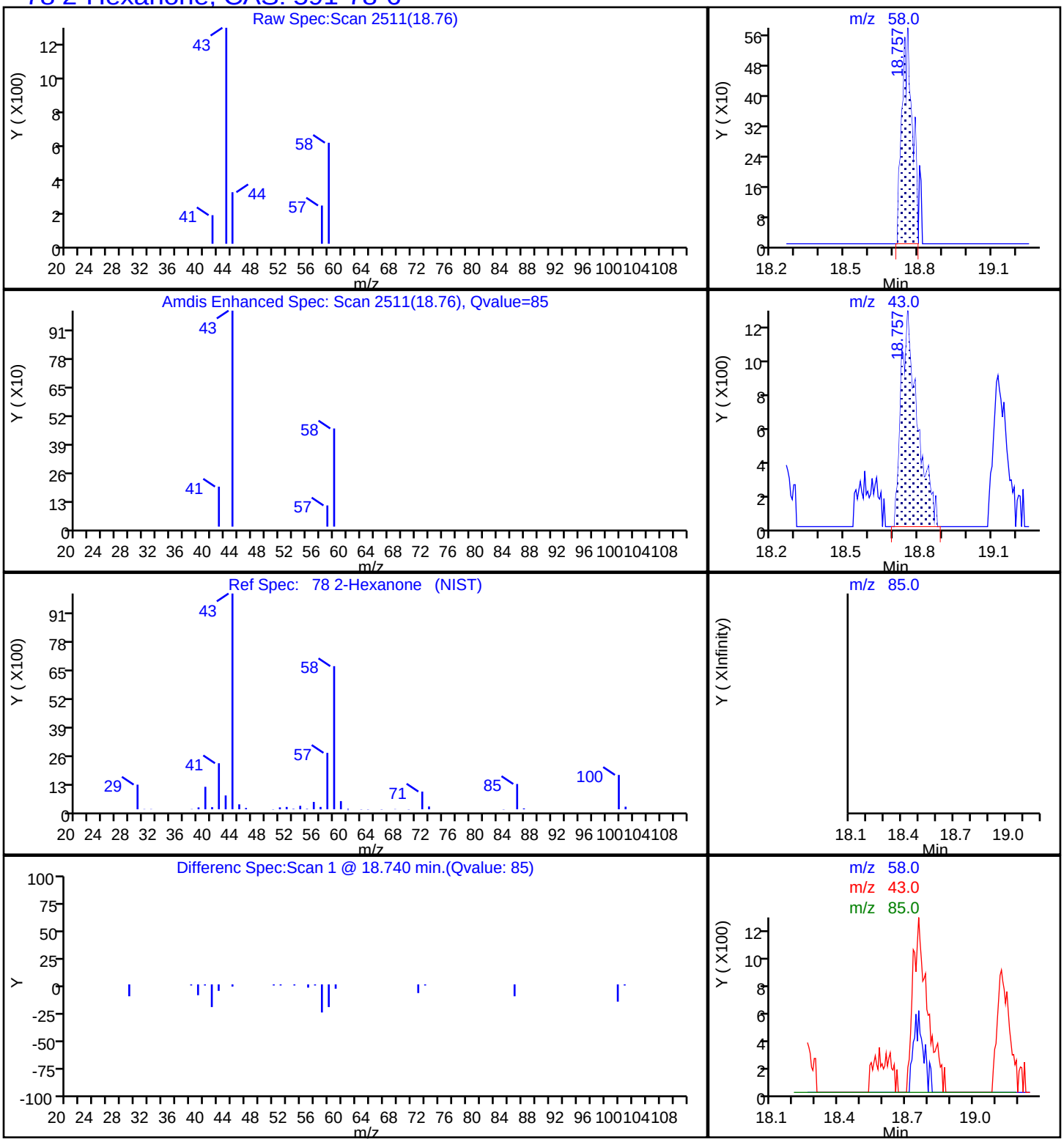
Report Date: 06-Apr-2018 11:37:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

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



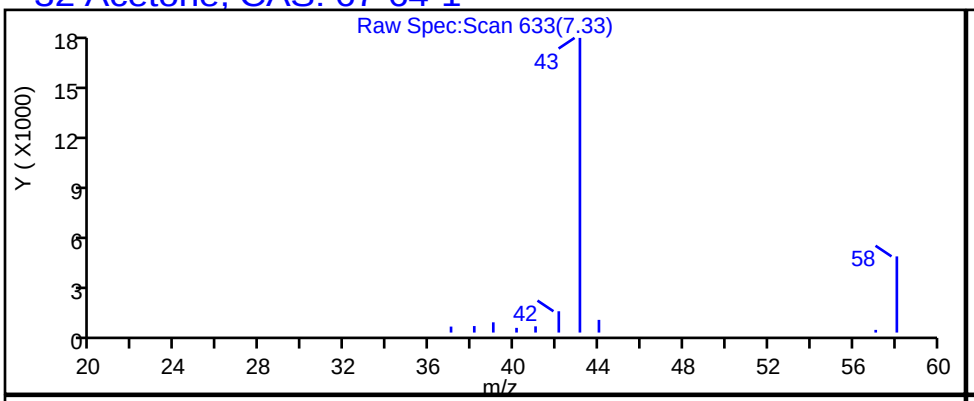
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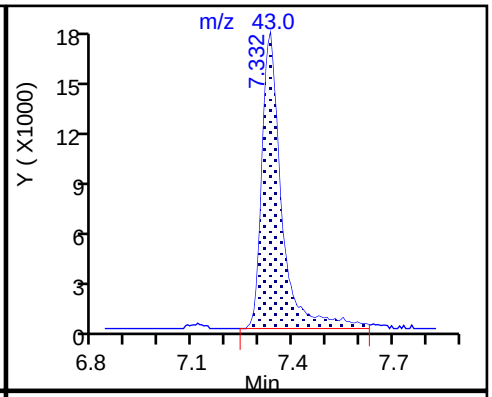
TestAmerica Sacramento

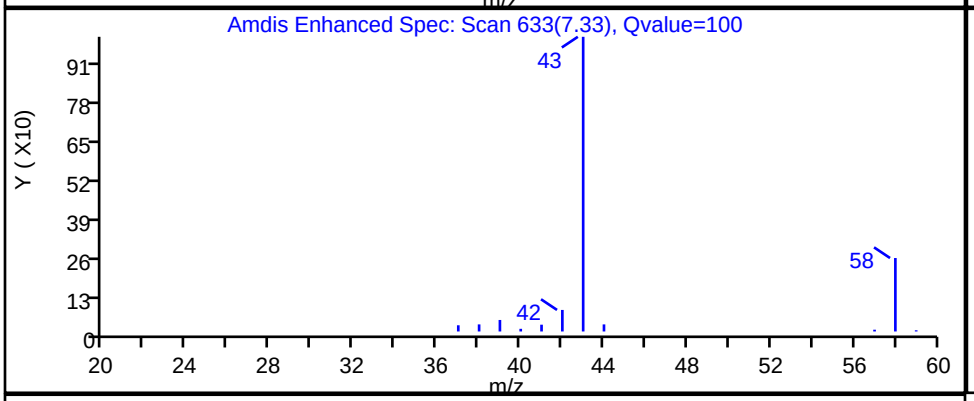
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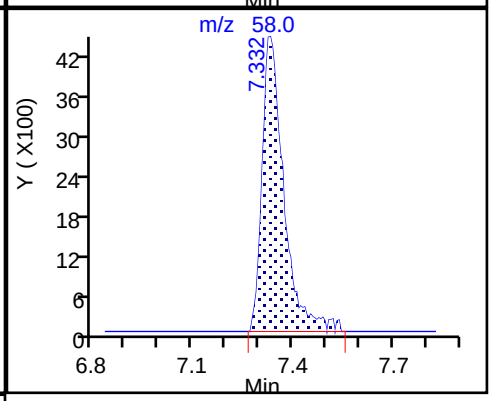
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Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

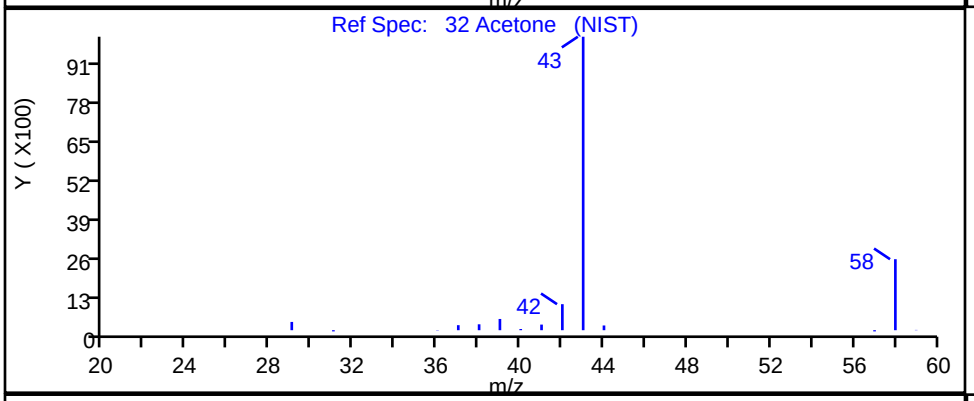
32 Acetone, CAS: 67-64-1

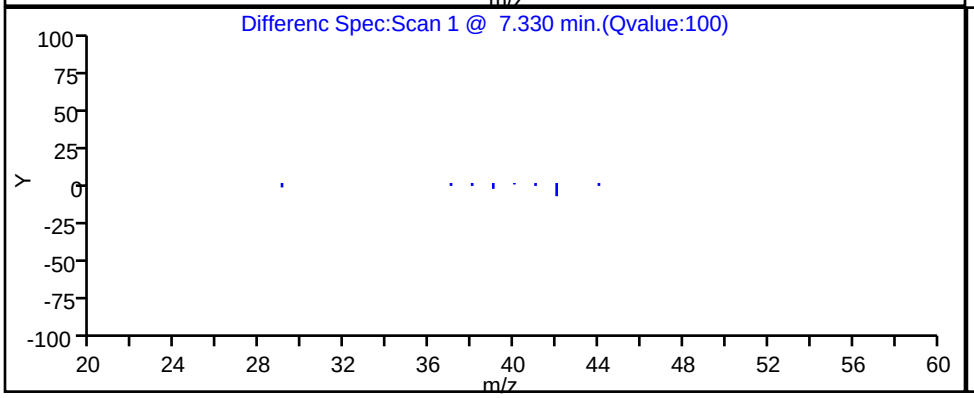


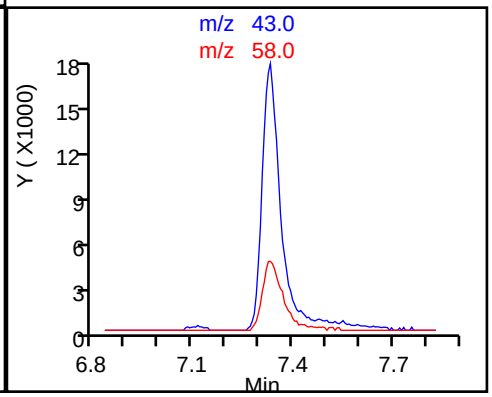












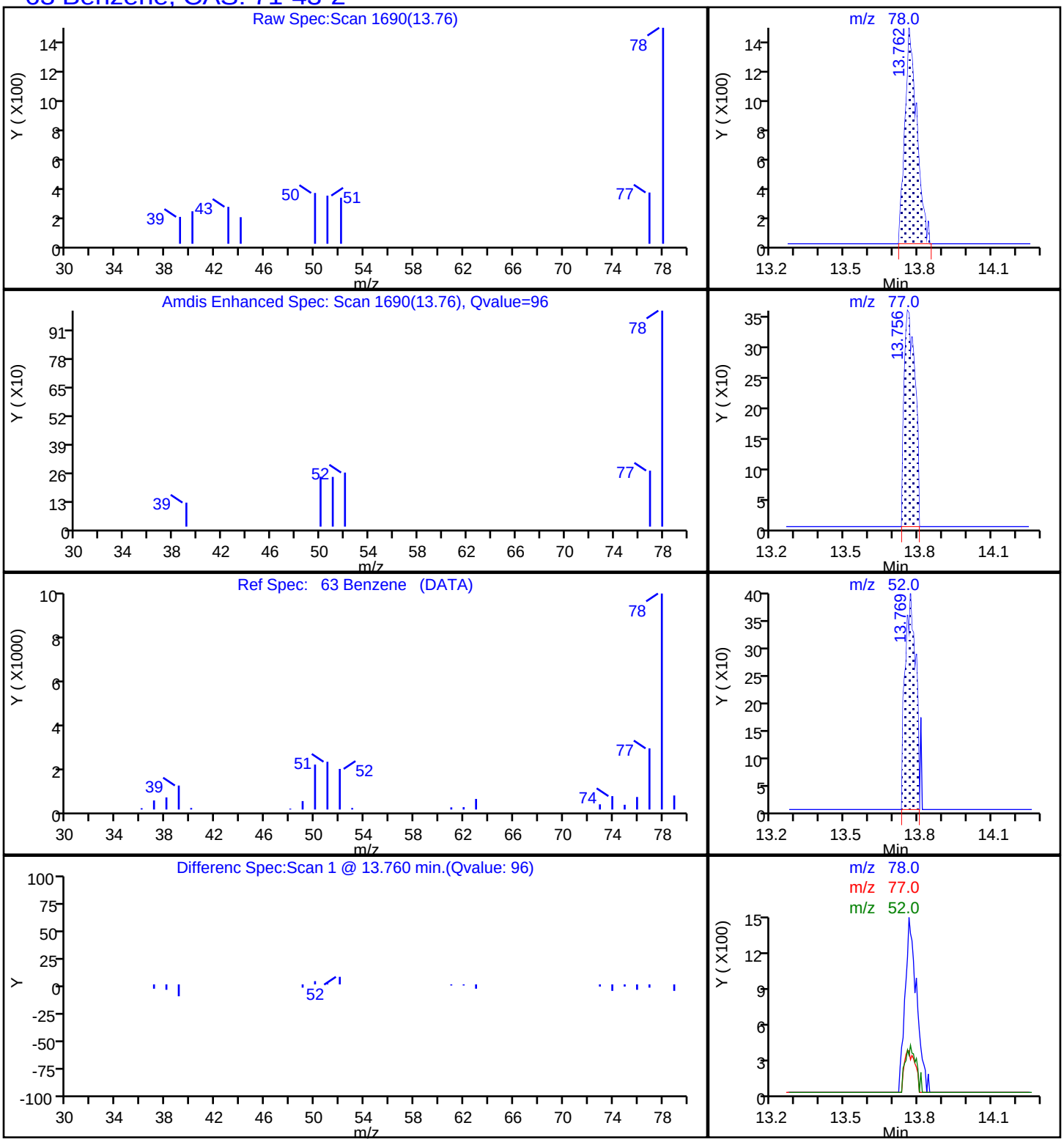
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



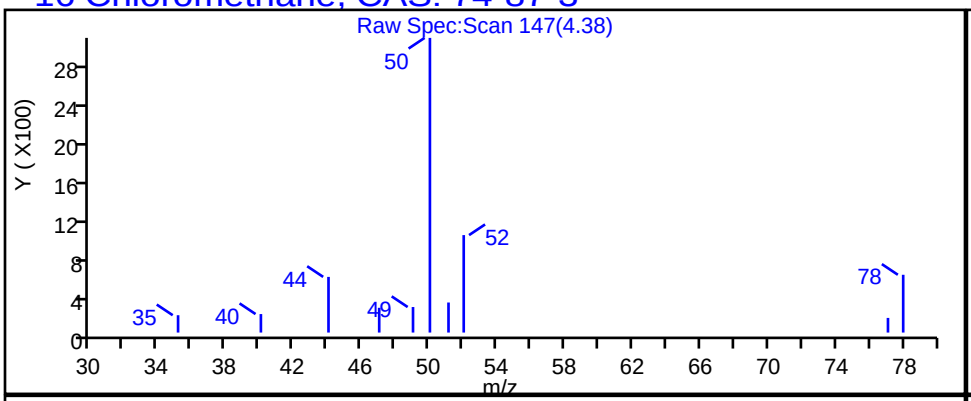
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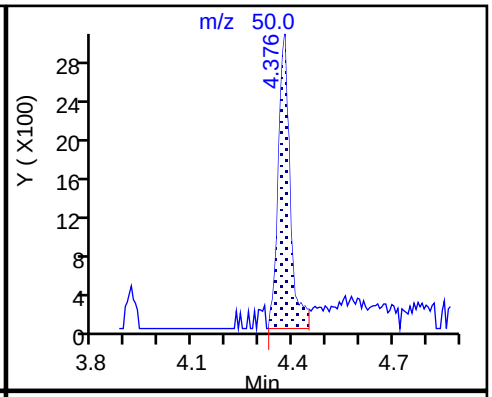
TestAmerica Sacramento

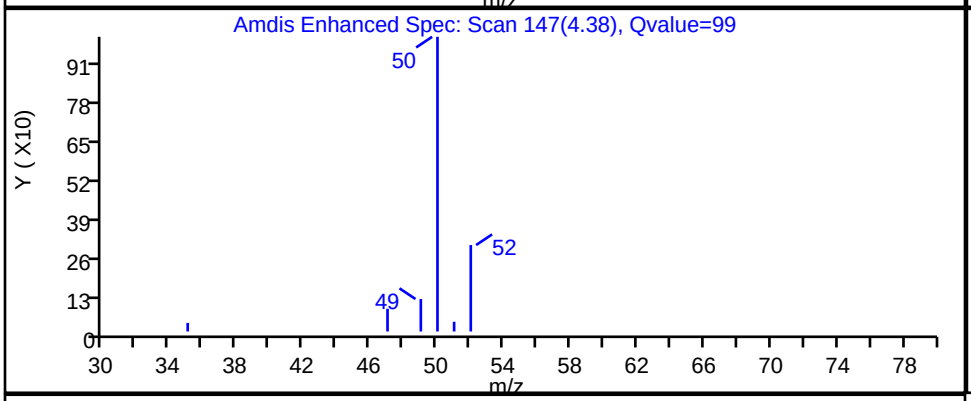
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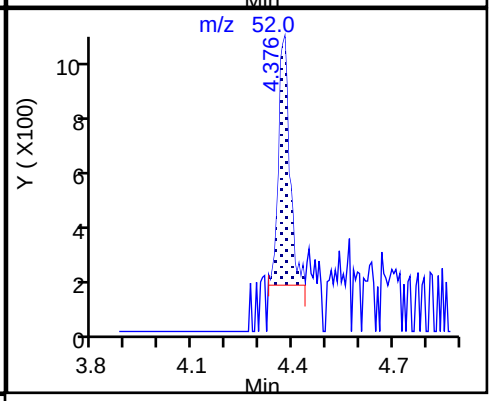
Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

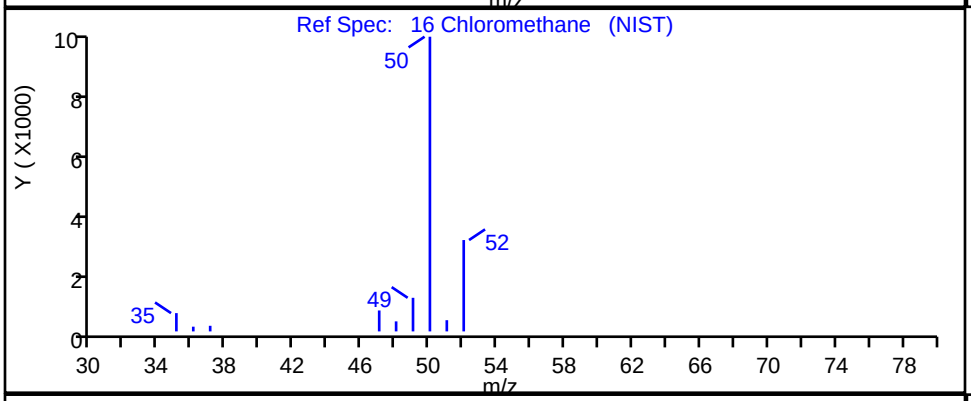
16 Chloromethane, CAS: 74-87-3

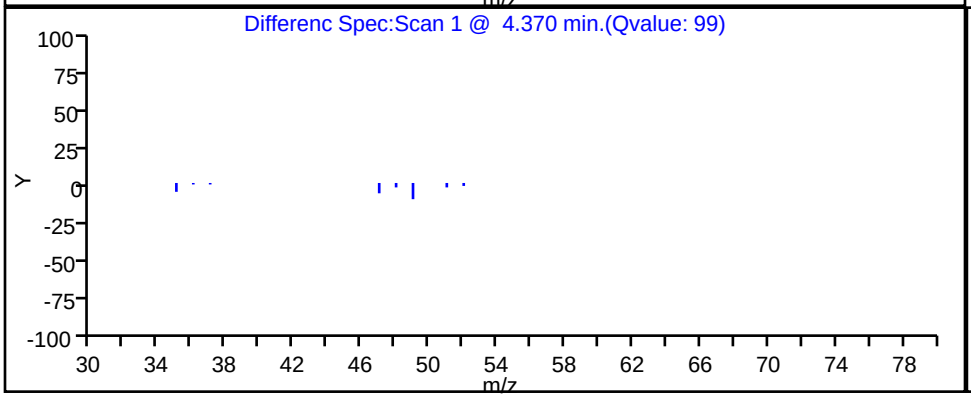


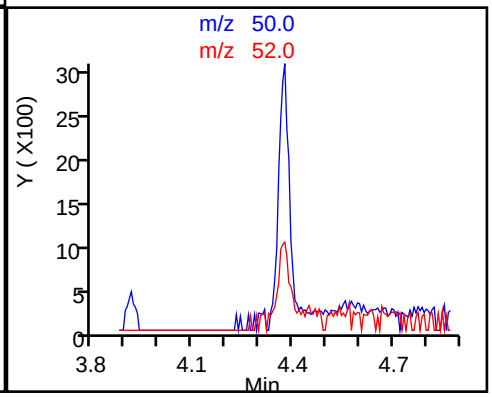












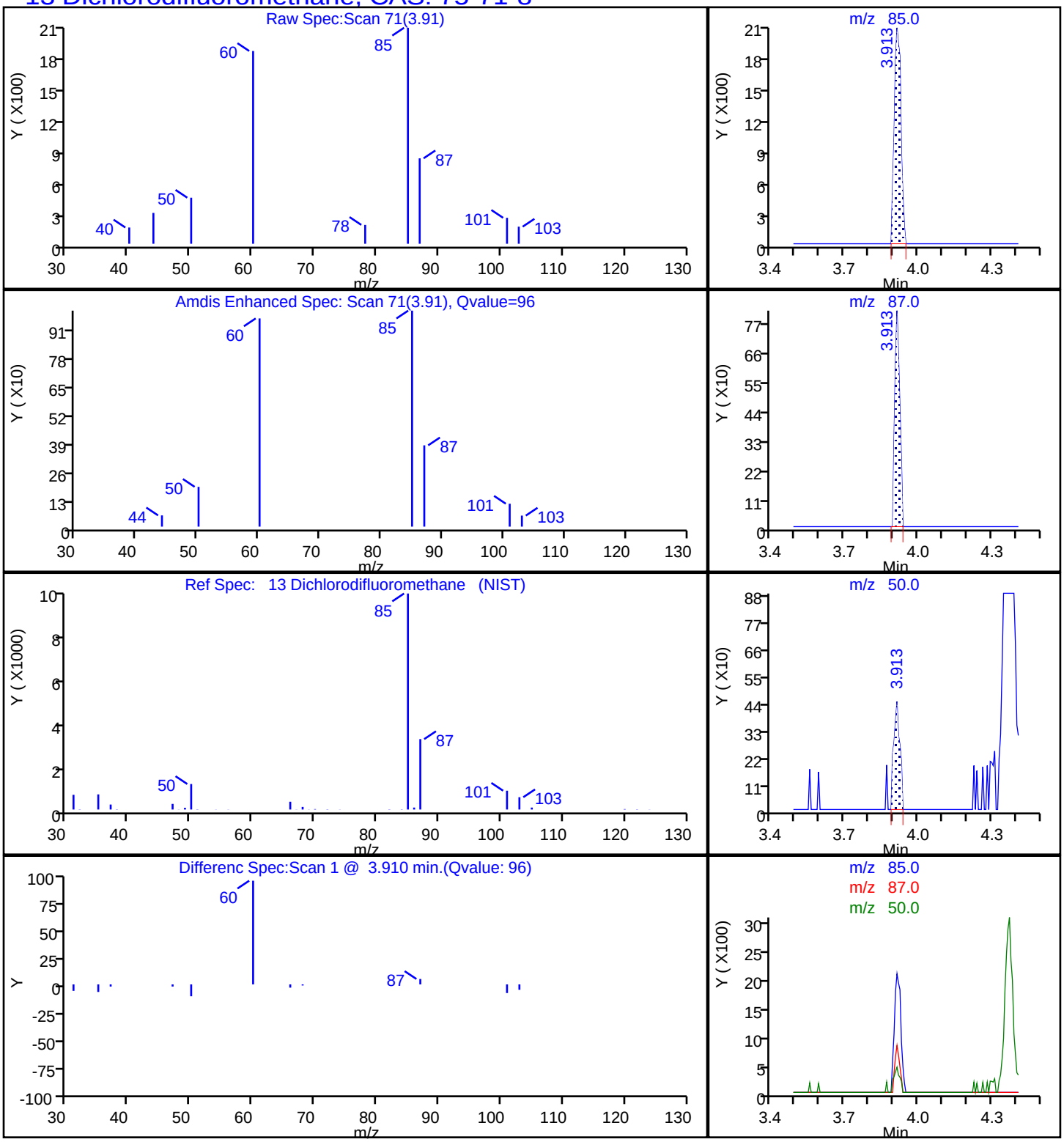
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



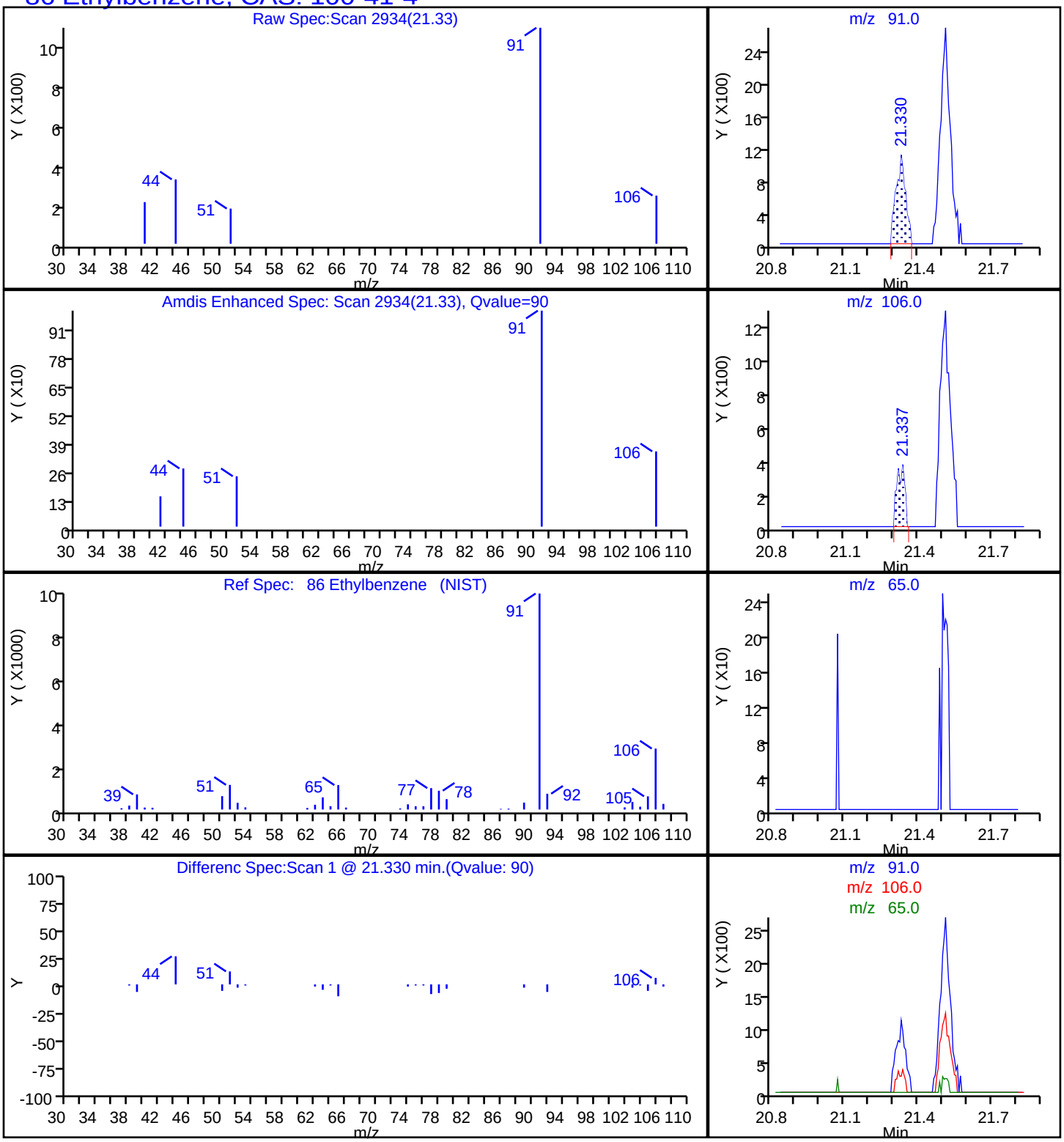
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



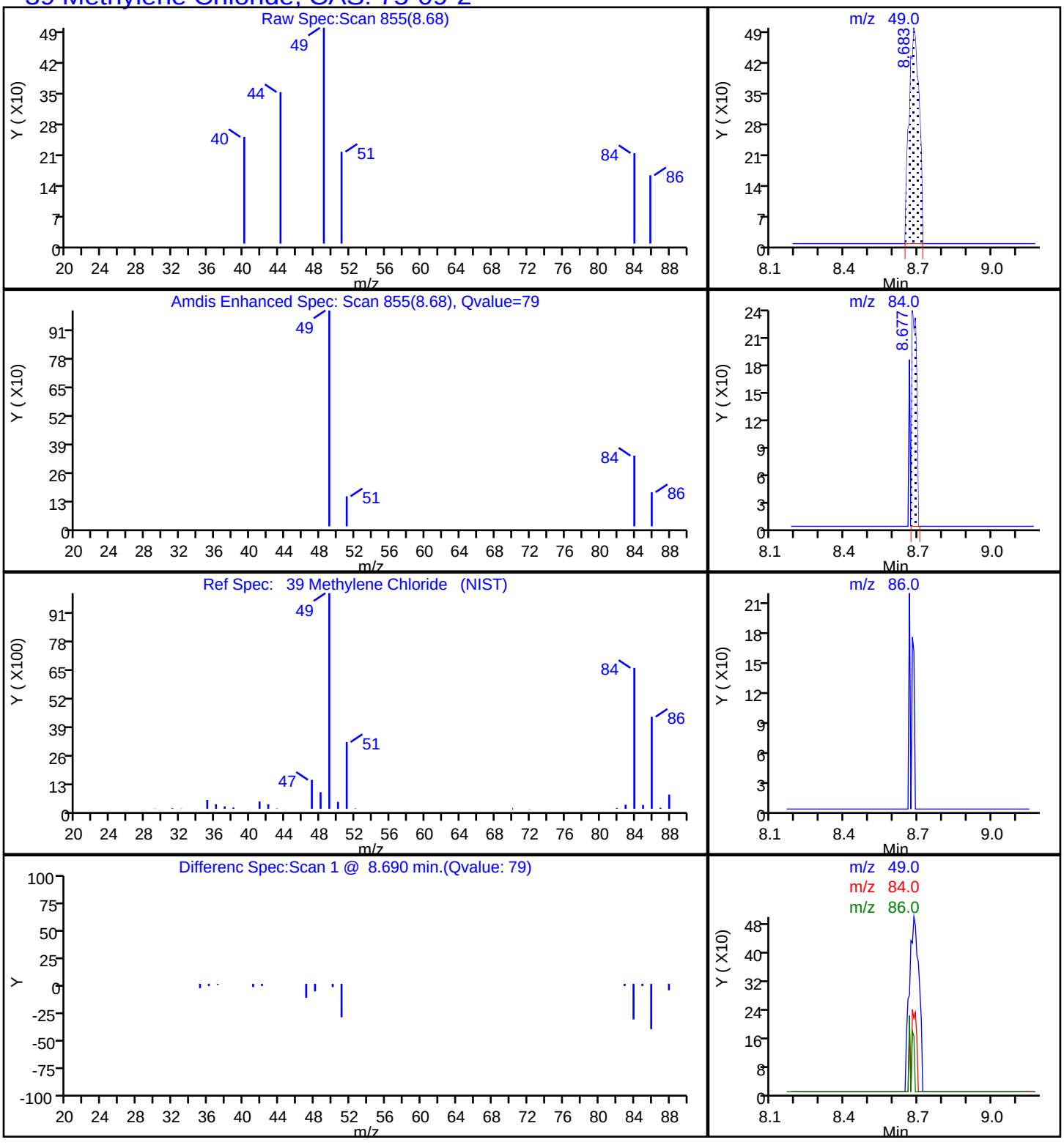
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



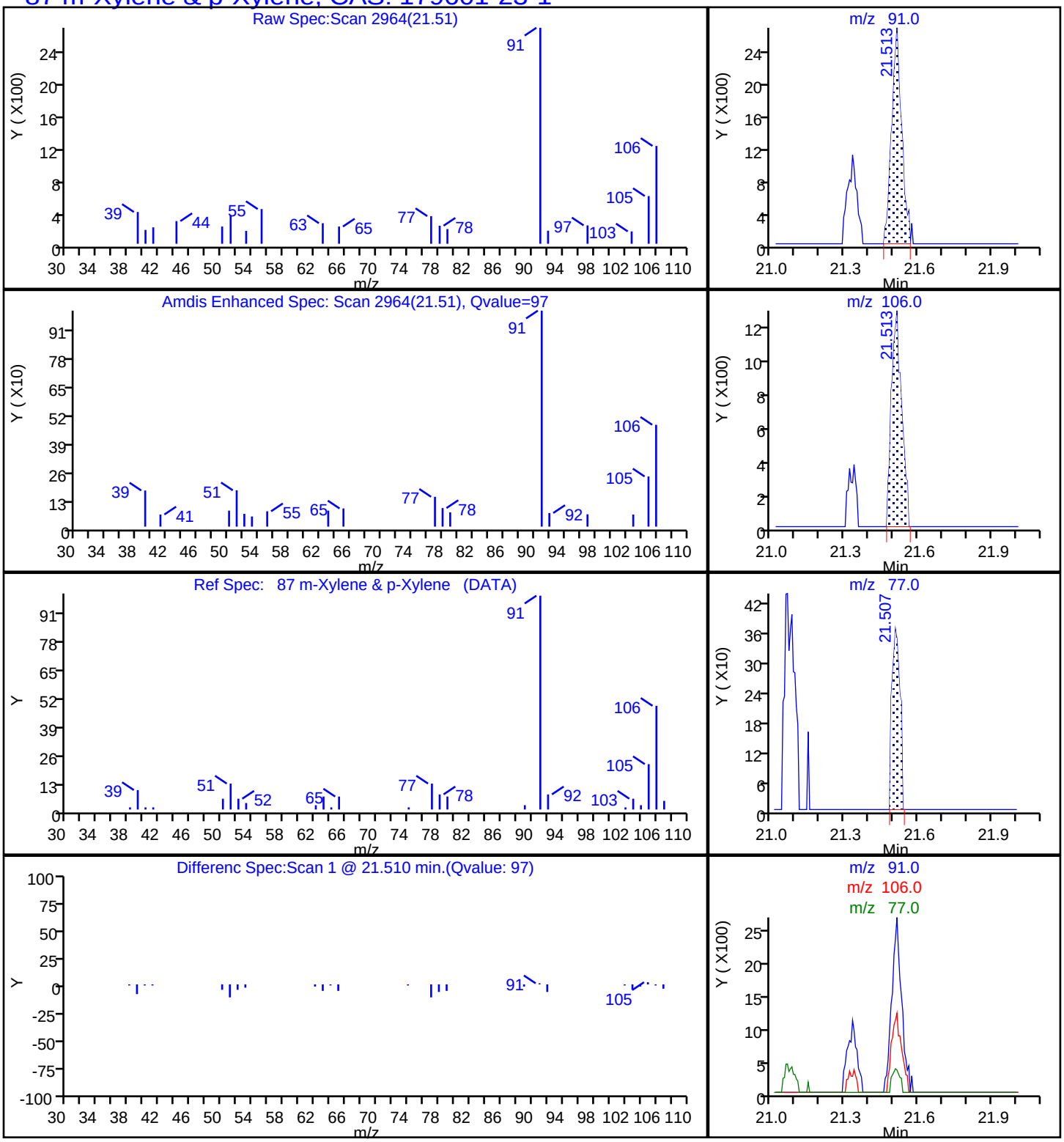
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



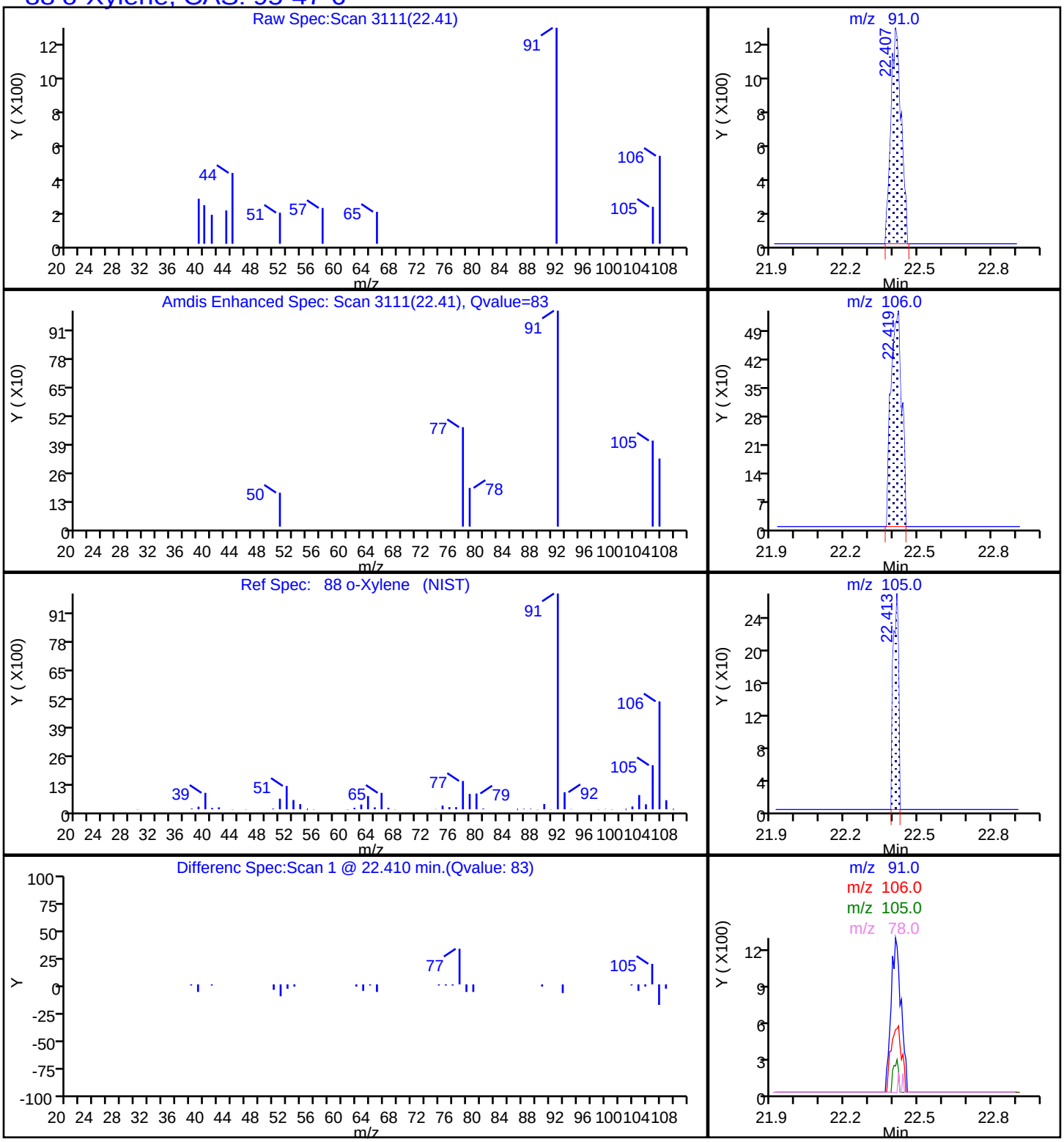
Report Date: 06-Apr-2018 11:37:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



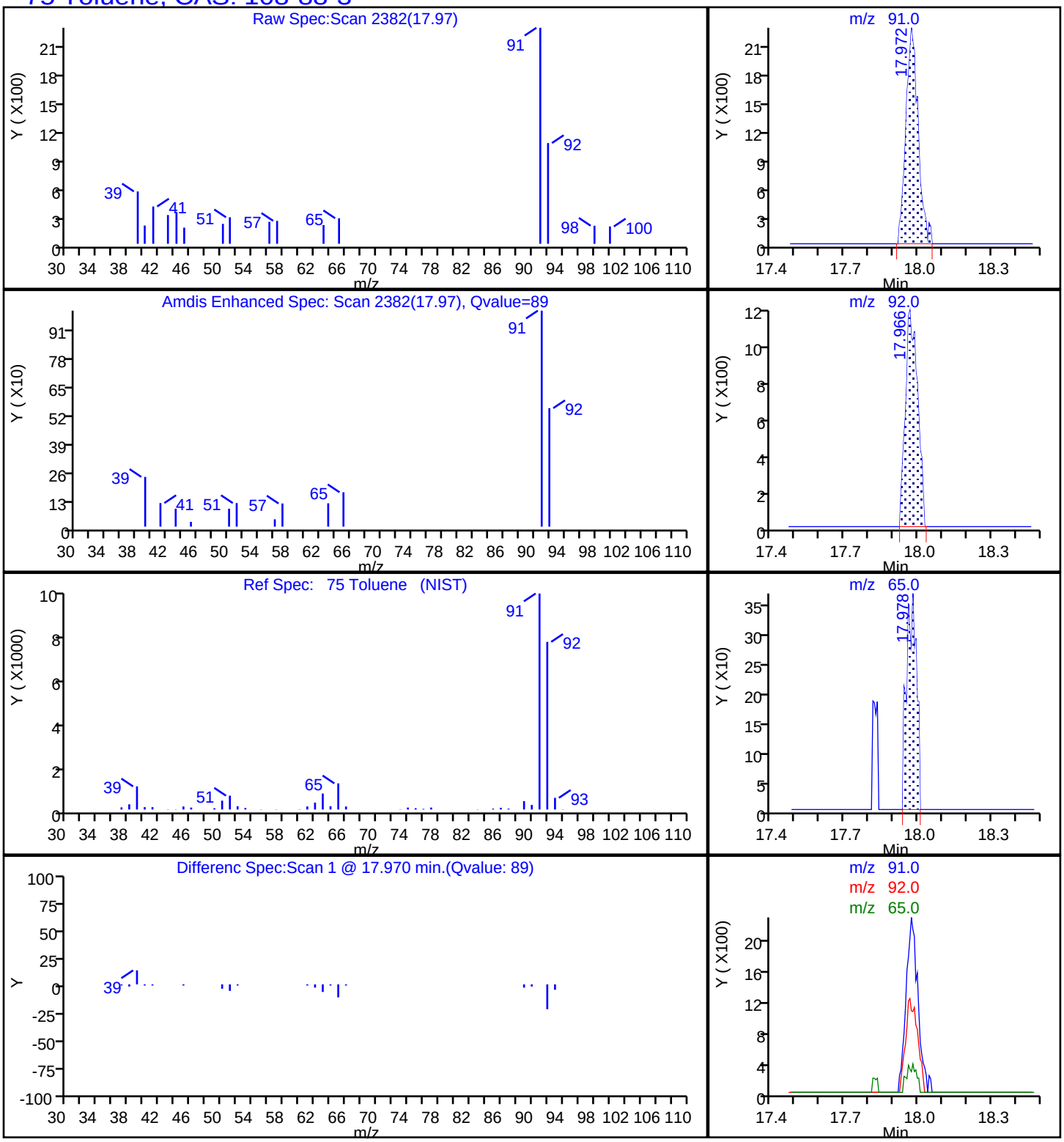
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



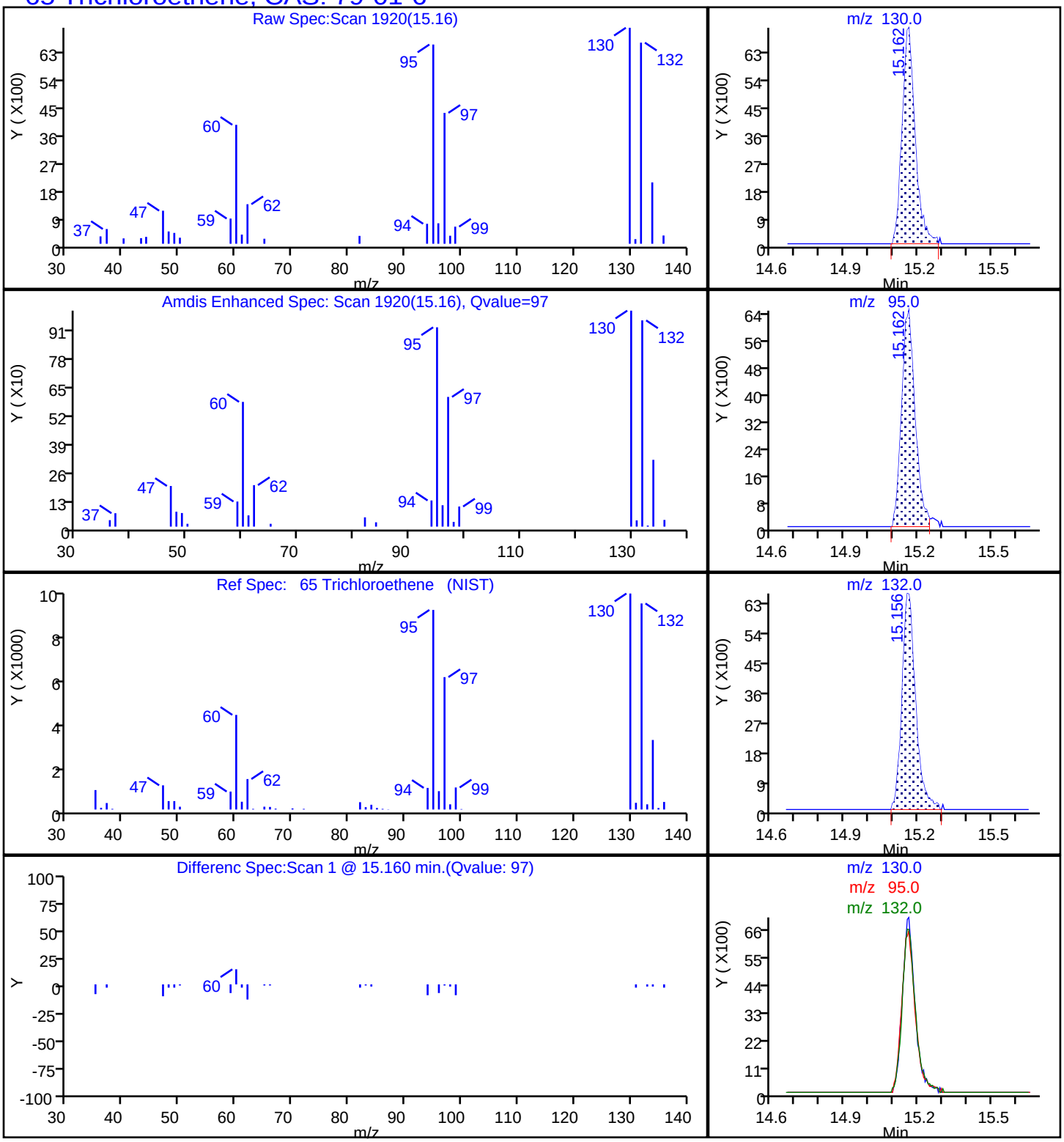
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



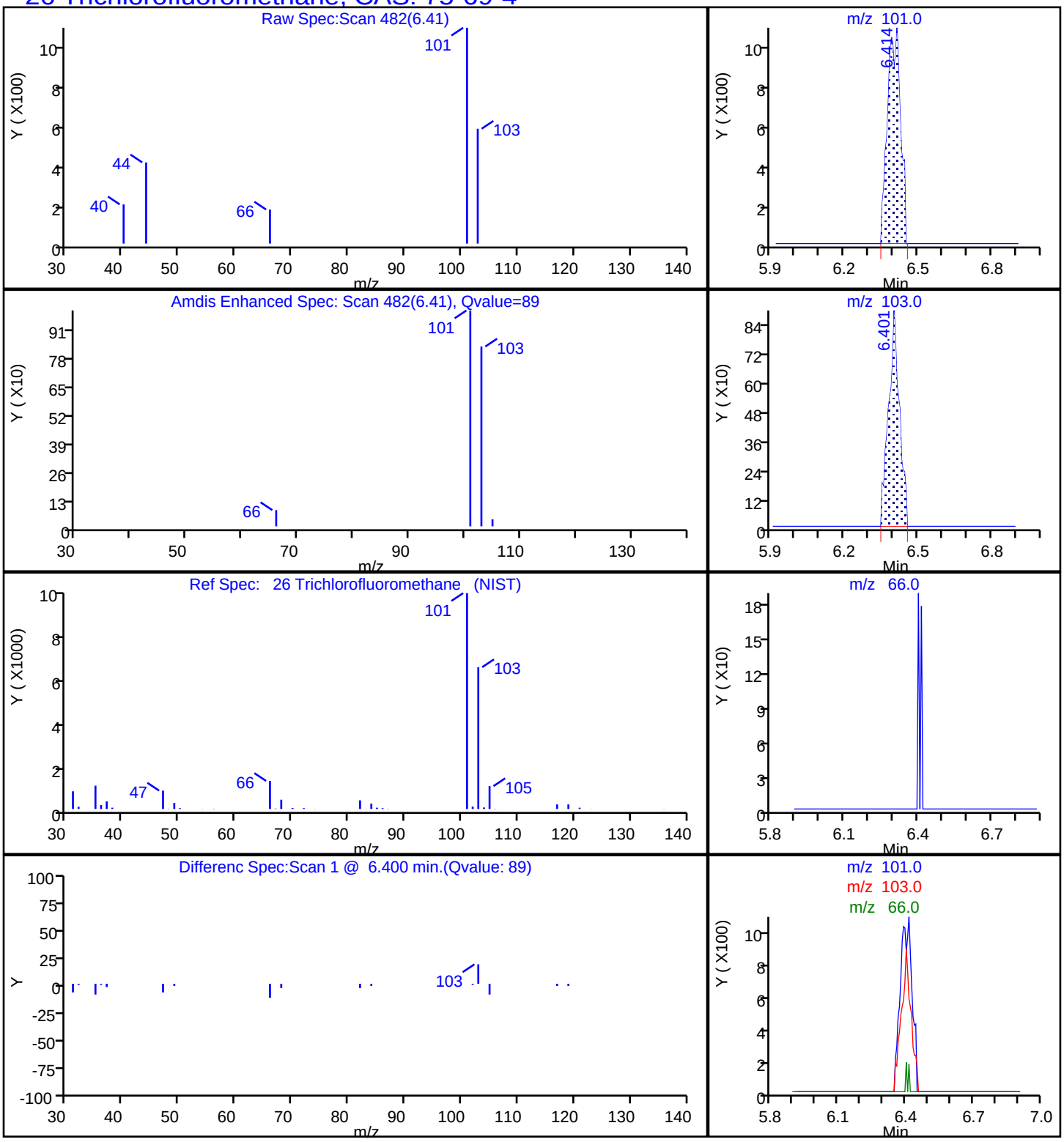
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D

Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11
Client ID:	785VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

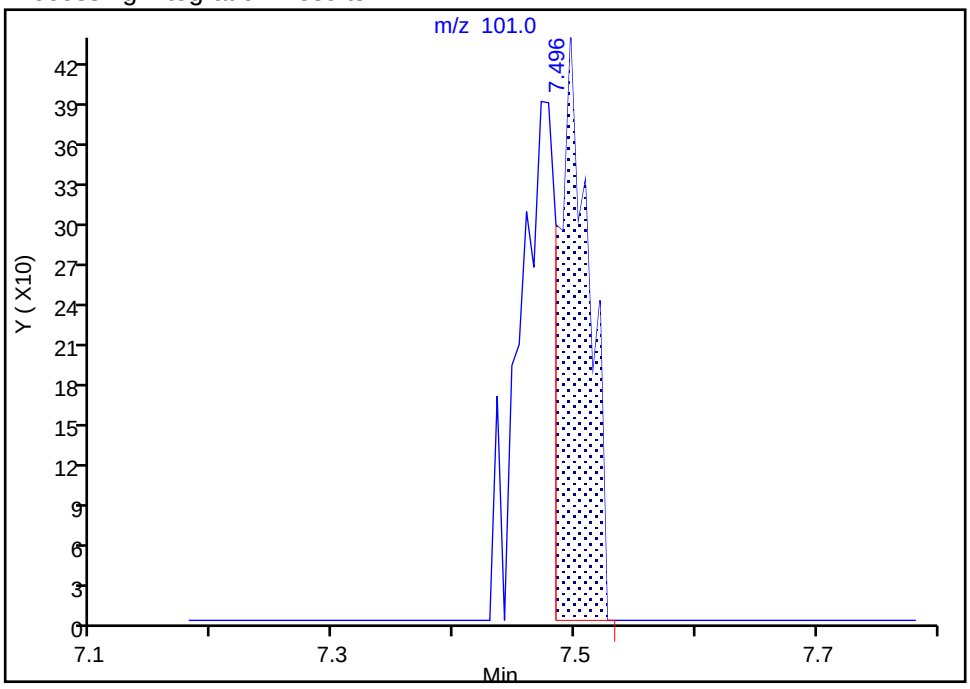
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Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11		
Client ID:	785VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

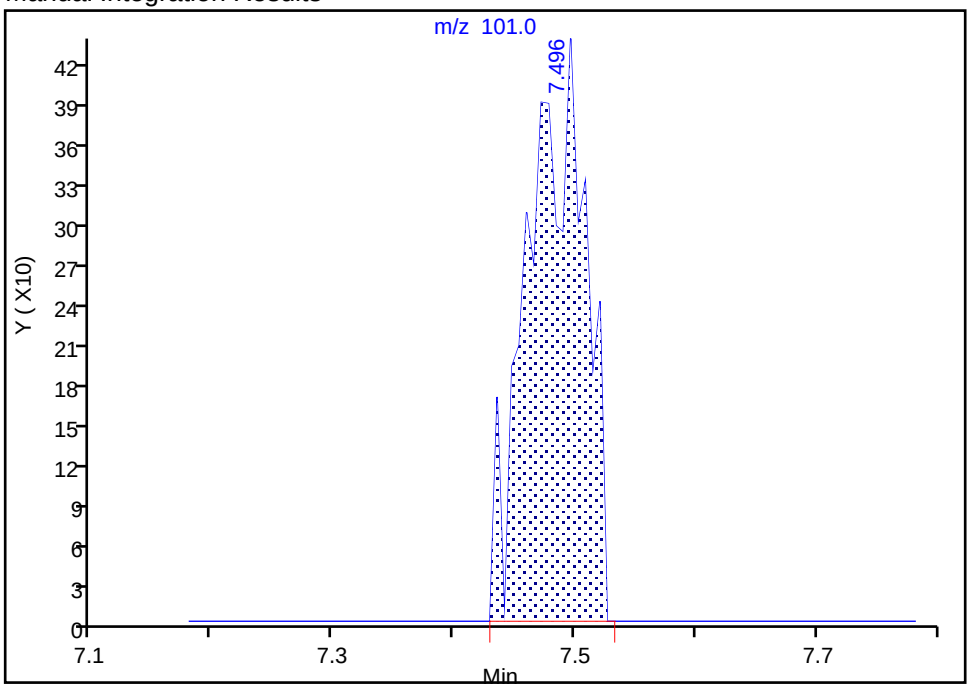
Processing Integration Results

RT: 7.50
Area: 761
Amount: 0.059996
Amount Units: ppb v/v



Manual Integration Results

RT: 7.50
Area: 1463
Amount: 0.115341
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:35:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

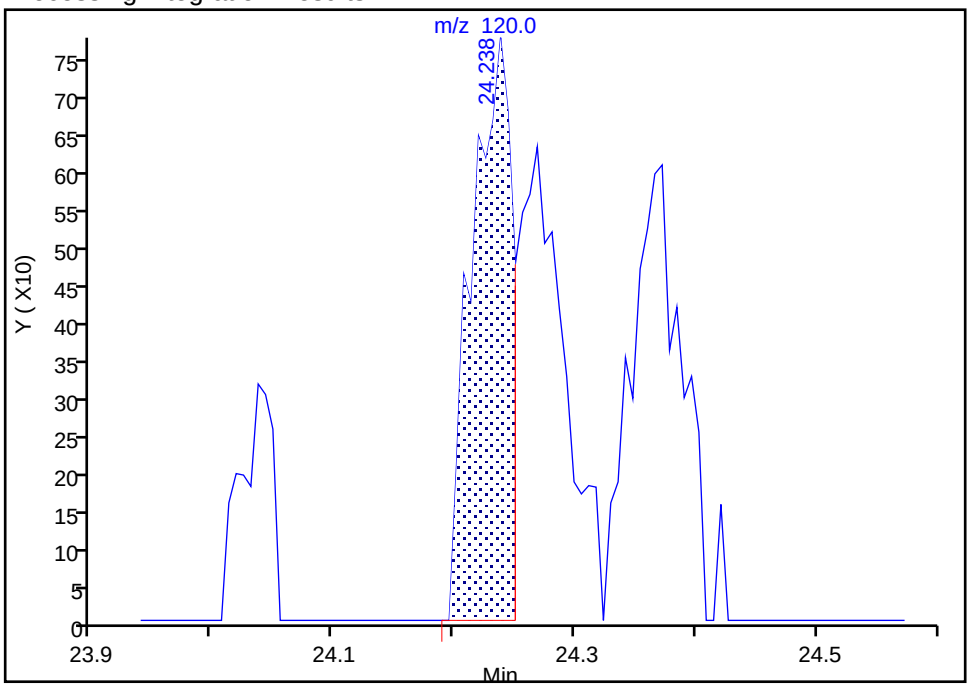
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Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11		
Client ID:	785VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

102 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

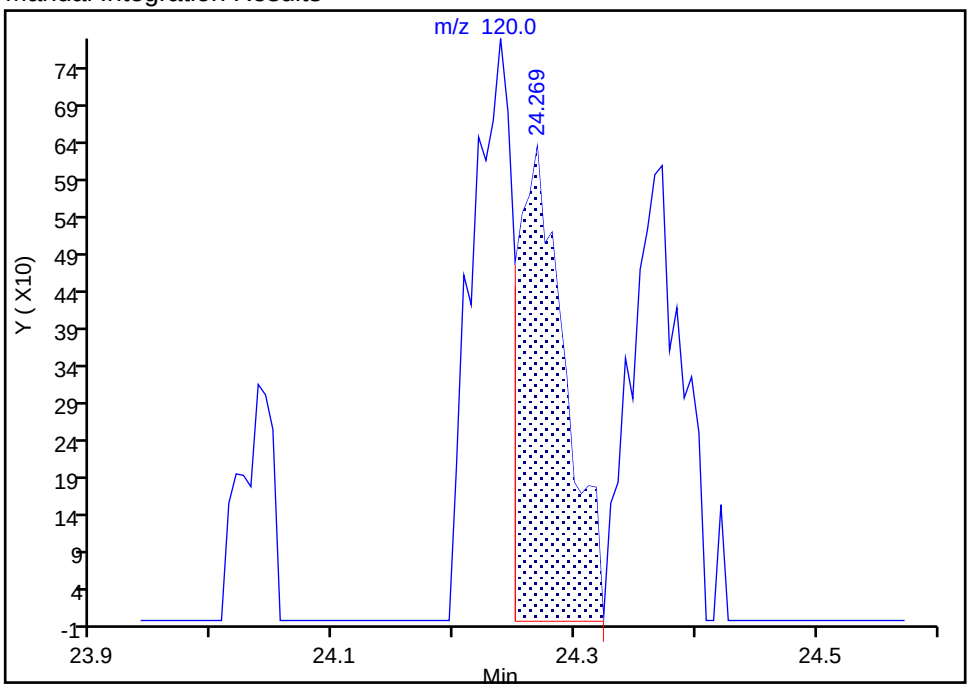
Processing Integration Results

RT: 24.24
Area: 1799
Amount: 0.134519
Amount Units: ppb v/v



Manual Integration Results

RT: 24.27
Area: 1710
Amount: 0.127864
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:36:28

Audit Action: Assigned New Baseline Audit Reason: Split Peak

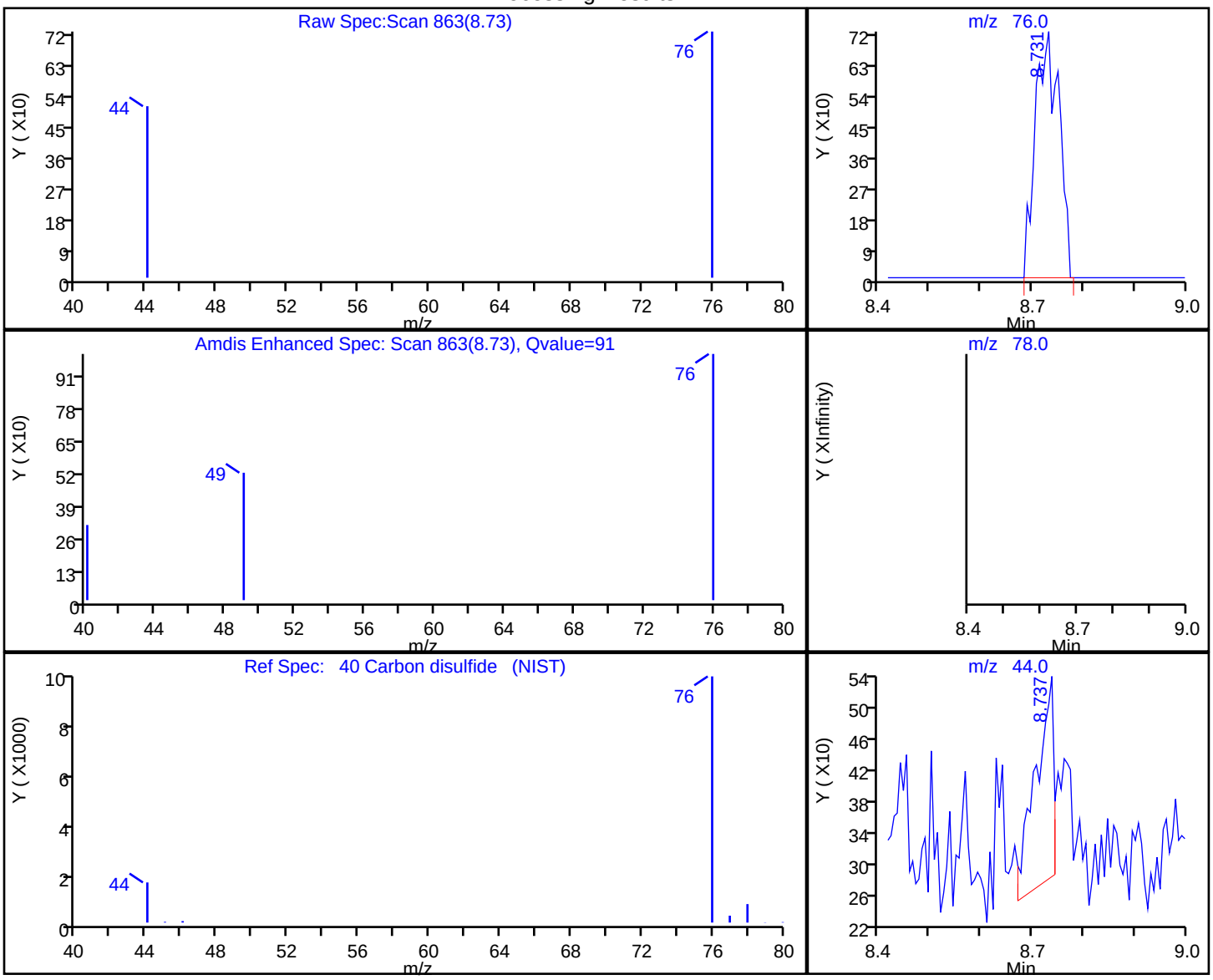
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D				
Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11		
Client ID:	785VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.73	76.00	2340	0.178306
8.71	78.00	0	
8.74	44.00	650	

Reviewer: phanthasena, 06-Apr-2018 11:37:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

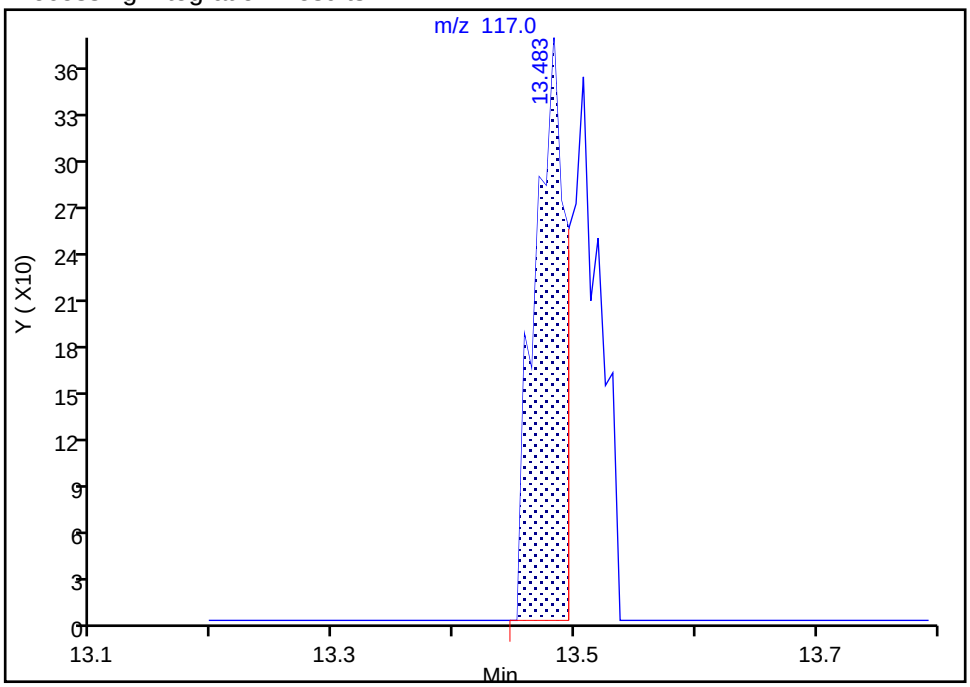
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D				
Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11		
Client ID:	785VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

59 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

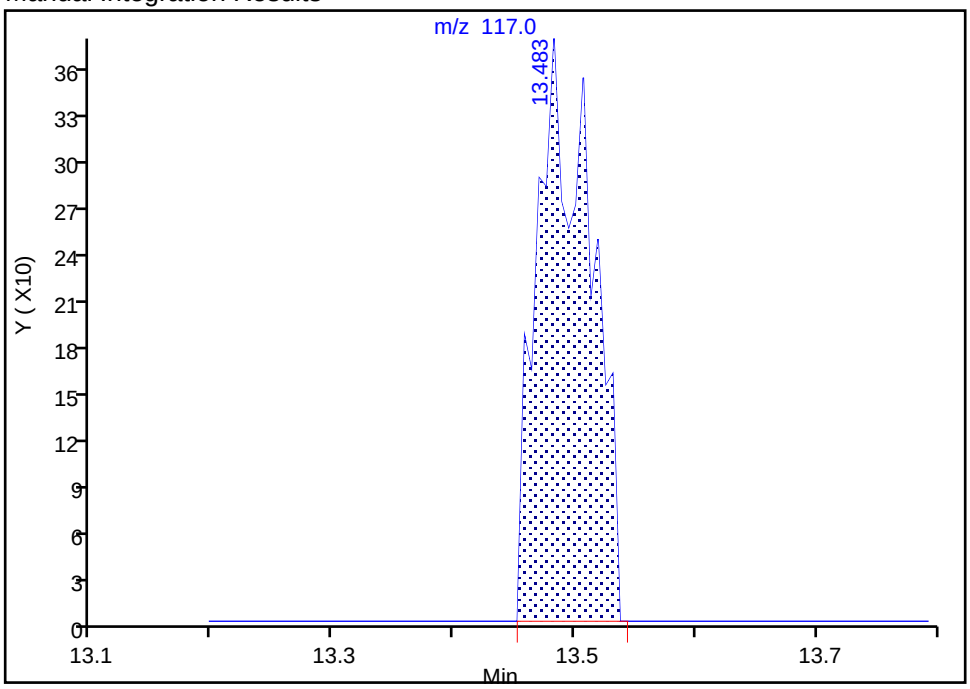
Processing Integration Results

RT: 13.48
Area: 654
Amount: 0.039755
Amount Units: ppb v/v



Manual Integration Results

RT: 13.48
Area: 1154
Amount: 0.070148
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:35:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

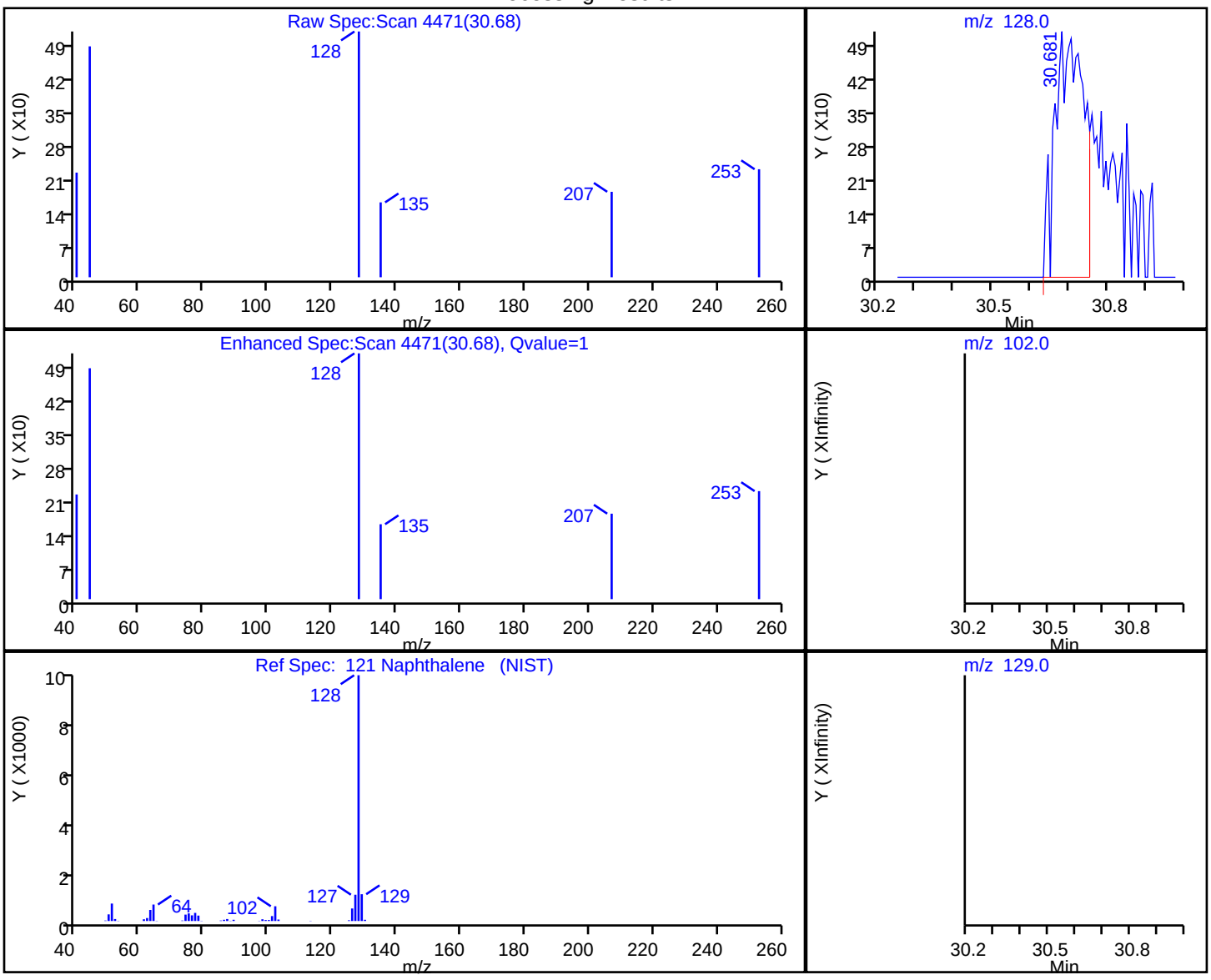
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040511.D				
Injection Date:	05-Apr-2018 20:15:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-11	Lab Sample ID:	320-37345-11		
Client ID:	785VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.68	128.00	2656	0.061329
30.61	102.00	0	
30.61	129.00	0	

Reviewer: phanthasena, 06-Apr-2018 11:37:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-2_0318-a | Lab Sample ID: 320-37345-12

Matrix: Air | Lab File ID: MS7040512.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:55

Sample wt/vol: 401(mL) | Date Analyzed: 04/05/2018 21:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	0.94	J	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	2.6		2.4	1.2	0.59
591-78-6	2-Hexanone	0.41	J	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	1.1	J	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	11	J	12	0.95	0.42
71-43-2	Benzene	0.49	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U M	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	2.2		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-2_0318-a Lab Sample ID: 320-37345-12

Matrix: Air Lab File ID: MS7040512.D

Analysis Method: TO-15 Date Collected: 03/21/2018 16:55

Sample wt/vol: 401(mL) Date Analyzed: 04/05/2018 21:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.8	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.35	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.69	U	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.91	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.45	J	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.89	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	13		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.5	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D
Lims ID: 320-37345-A-12
Client ID: 785VMP-2_0318-a
Sample Type: Client
Inject. Date: 05-Apr-2018 21:11:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-12
Misc. Info.: 401 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 12:24:55 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 12:24:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.217	12.223	-0.006	92	26527	4.00	
* 2 1,4-Difluorobenzene	114	14.377	14.383	-0.006	96	114383	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.063	0.000	92	124635	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.422	-0.006	97	49691	4.61	
$ 5 Toluene-d8 (Surr)	100	17.784	17.776	0.000	97	83095	4.17	
$ 6 4-Bromofluorobenzene (Surr	95	23.606	23.606	0.000	86	88893	3.84	
13 Dichlorodifluoromethane	85	3.895	3.903	-0.012	97	3877	0.3626	
16 Chloromethane	50	4.357	4.353	0.000	98	6227	1.09	
26 Trichlorofluoromethane	101	6.377	6.383	-0.012	94	3954	0.2700	
32 Acetone	43	7.308	7.294	0.006	100	59058	4.74	
33 1,1,2-Trichloro-1,2,2-trif	101	7.454	7.454	-0.018	1	1333	0.1108	M
48 2-Butanone (MEK)	72	11.189	11.160	0.018	93	2948	0.8696	
55 1,1,1-Trichloroethane	97	12.880	12.886	-0.019	1	736	0.0497	
59 Carbon tetrachloride	117	13.489	13.489	0.006	1	900	0.0557	a
63 Benzene	78	13.750	13.751	-0.006	91	3271	0.1525	
65 Trichloroethene	130	15.143	15.143	-0.007	96	25297	2.46	
71 4-Methyl-2-pentanone (MIBK	43	16.804	16.755	0.042	92	3526	0.1095	
75 Toluene	91	17.954	17.952	-0.006	90	7146	0.2367	
78 2-Hexanone	58	18.739	18.696	0.043	87	1512	0.0997	
86 Ethylbenzene	91	21.318	21.312	0.006	94	3505	0.0804	
87 m-Xylene & p-Xylene	91	21.507	21.495	0.012	92	7074	0.2097	
88 o-Xylene	91	22.401	22.401	0.000	94	3472	0.1034	
102 4-Ethyltoluene	120	24.226	24.263	-0.037	95	3061	0.2165	
104 1,3,5-Trimethylbenzene	120	24.366	24.360	0.006	89	1270	0.0611	
107 1,2,4-Trimethylbenzene	120	25.157	25.151	0.006	95	3621	0.1918	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

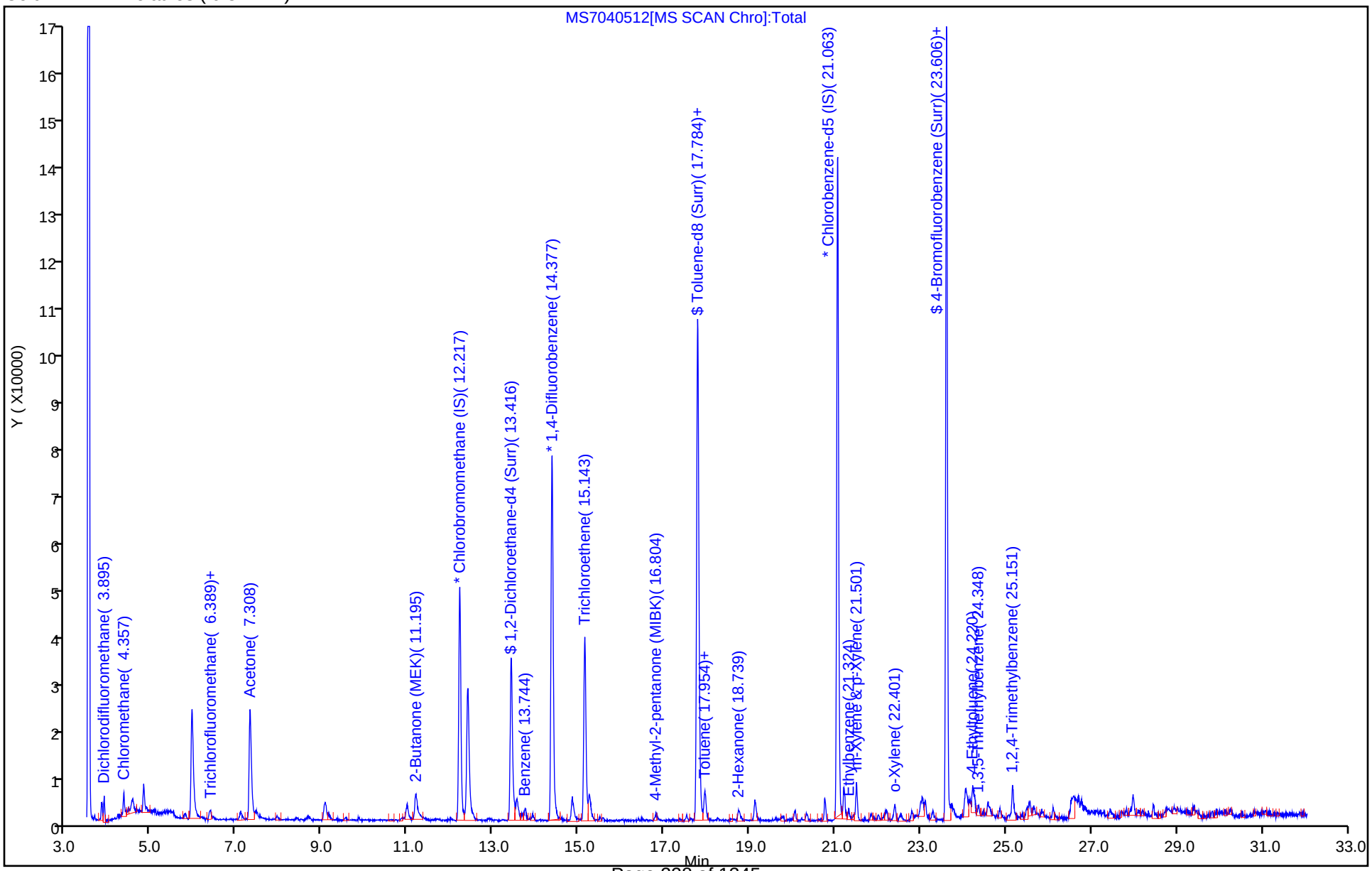
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12	Worklist Smp#:	10
Client ID:	785VMP-2_0318-a				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D
Lims ID: 320-37345-A-12
Client ID: 785VMP-2_0318-a
Sample Type: Client
Inject. Date: 05-Apr-2018 21:11:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-12
Misc. Info.: 401 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 12:24:55 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 12:24:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.61	115.16
$ 5 Toluene-d8 (Surr)	4.00	4.17	104.27
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.84	95.99

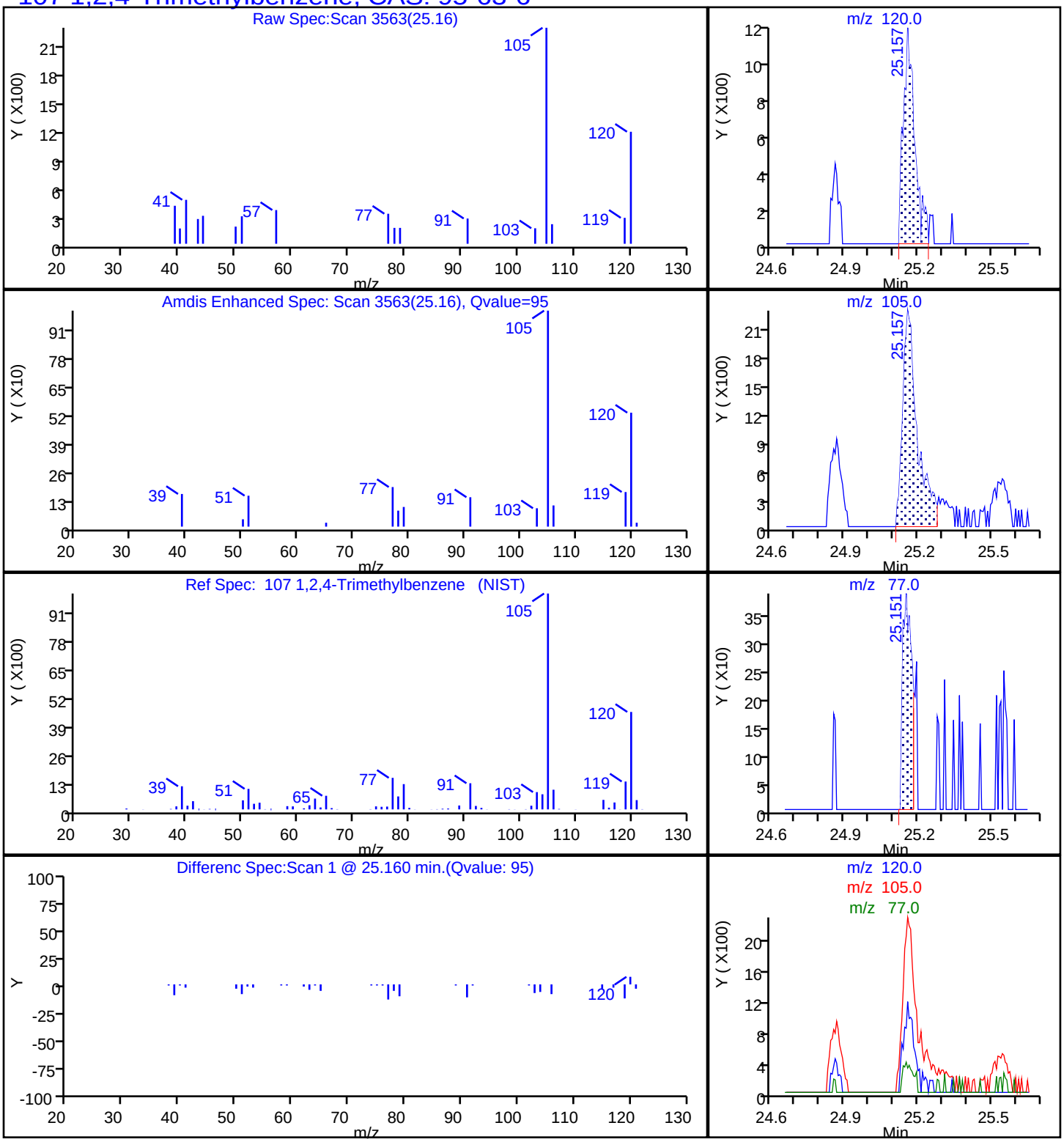
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

107 1,2,4-Trimethylbenzene, CAS: 95-63-6



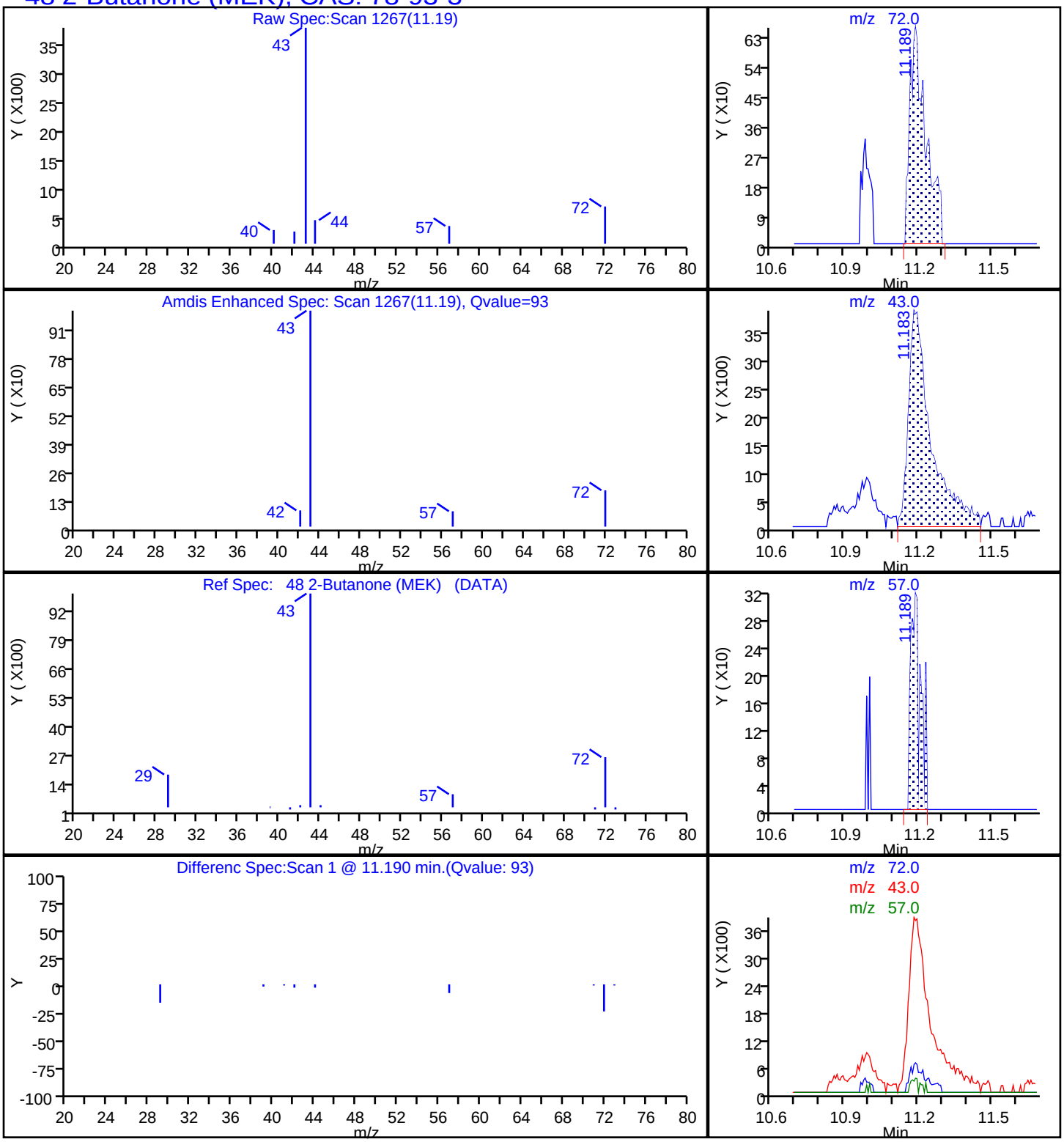
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



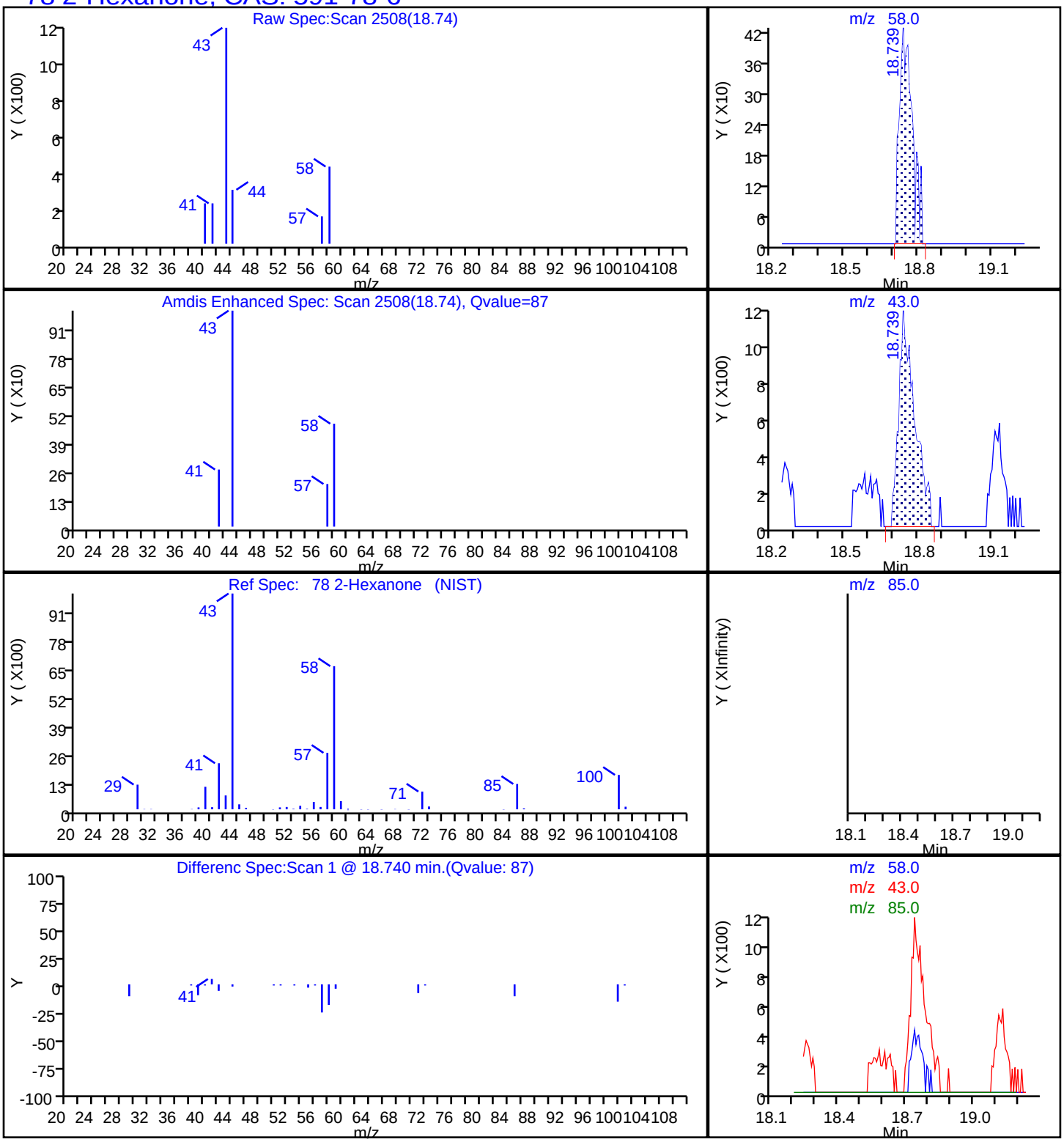
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

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



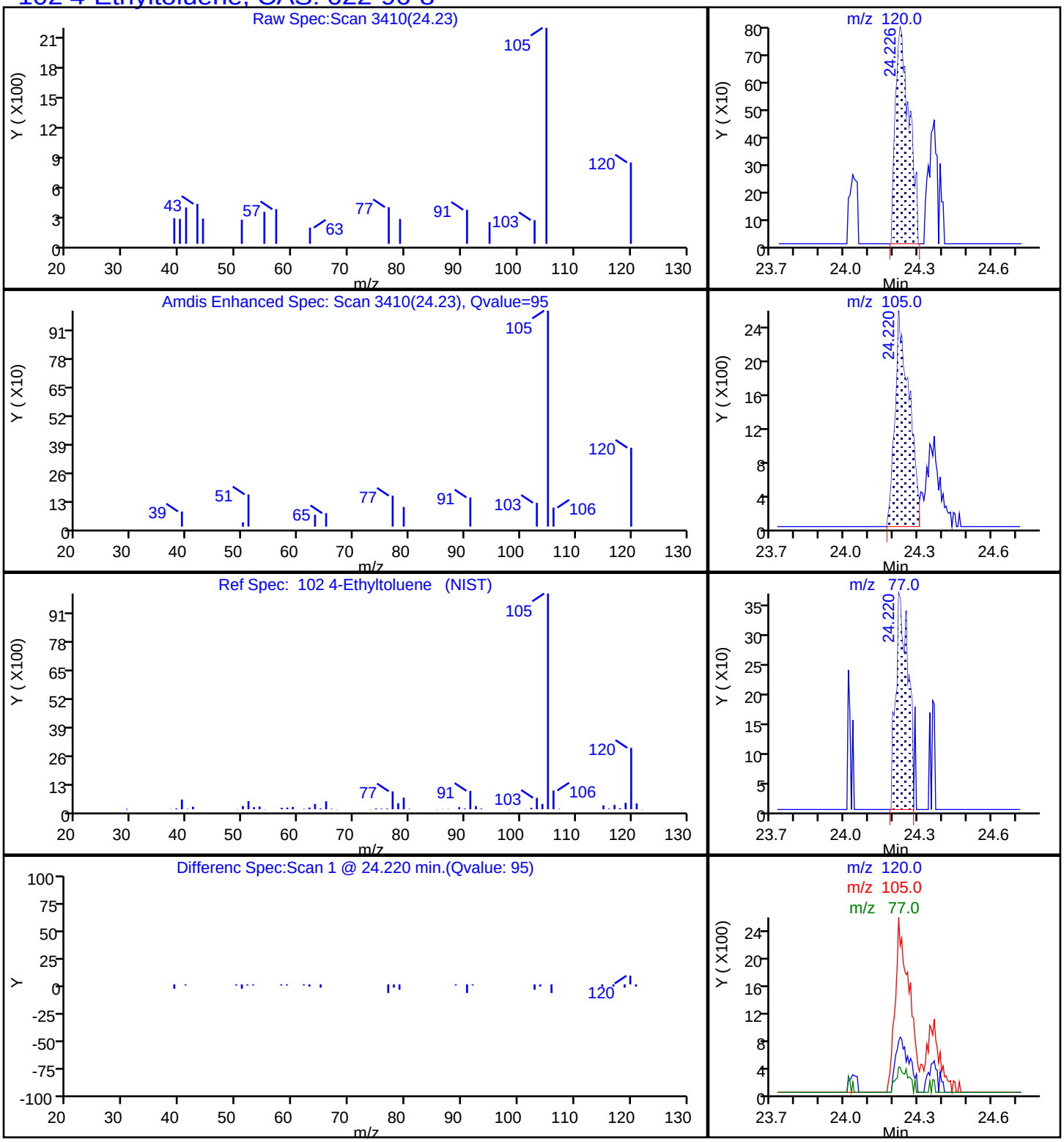
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

102 4-Ethyltoluene, CAS: 622-96-8



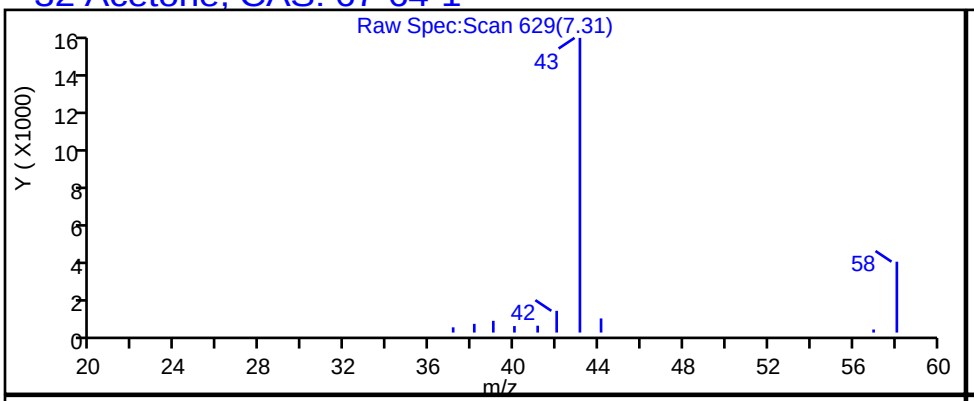
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

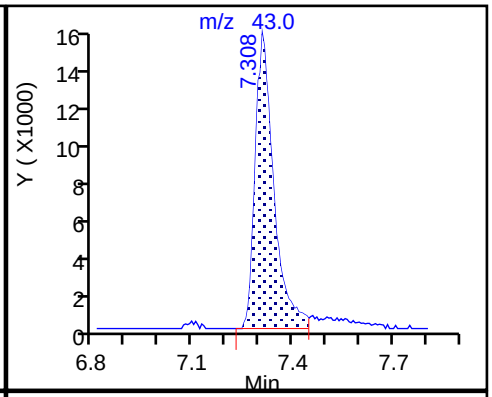
TestAmerica Sacramento

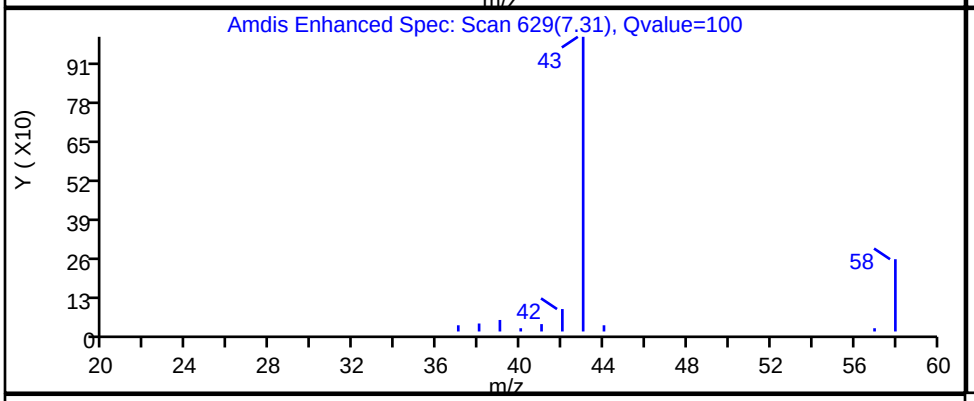
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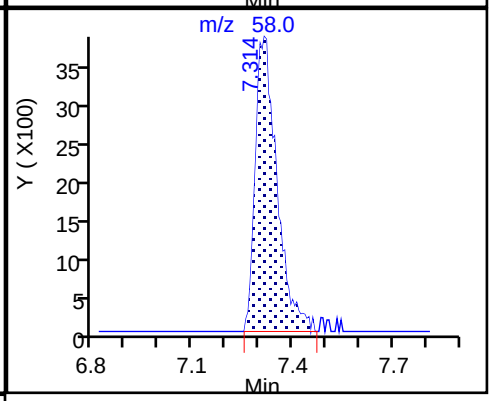
Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

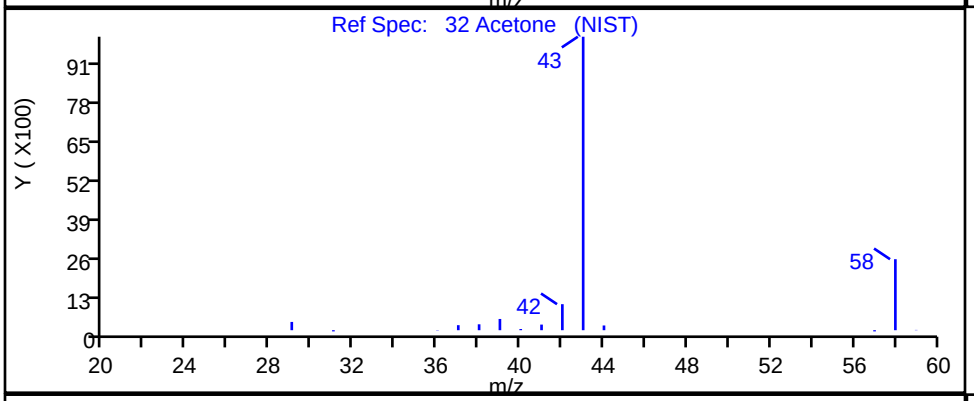
32 Acetone, CAS: 67-64-1

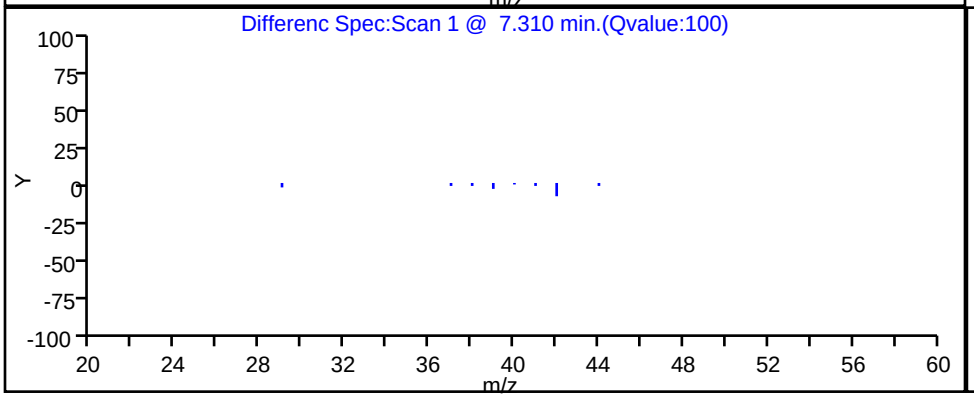


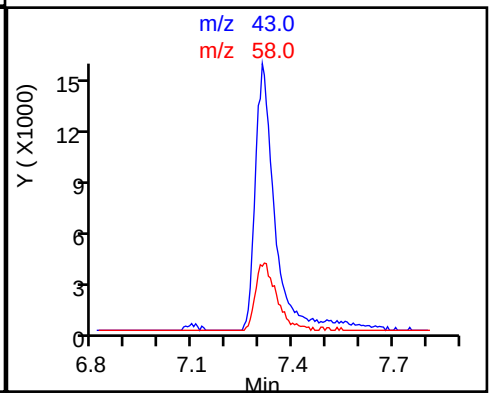












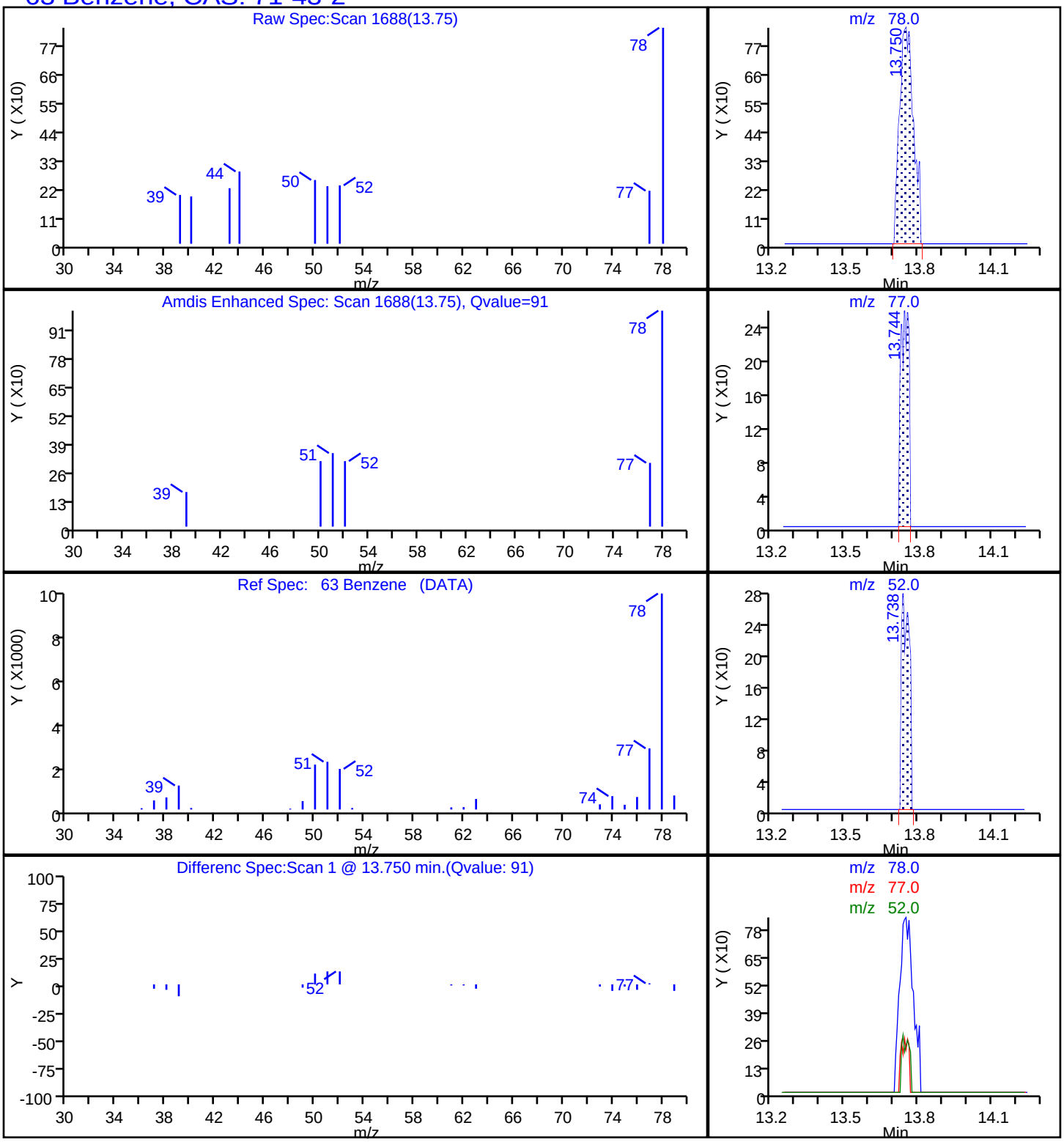
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



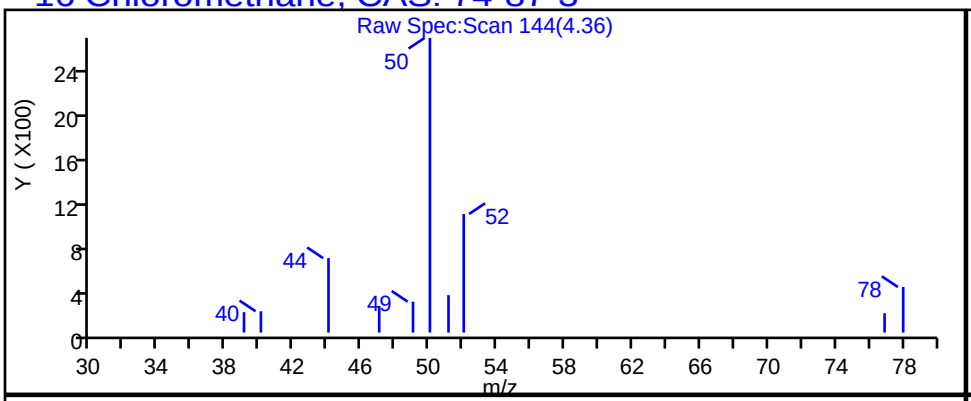
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

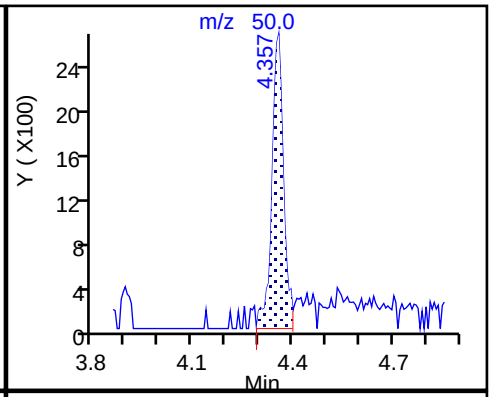
TestAmerica Sacramento

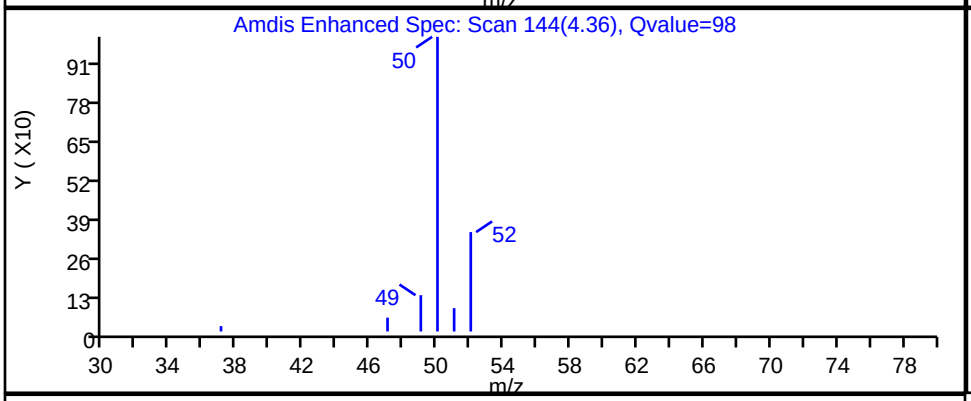
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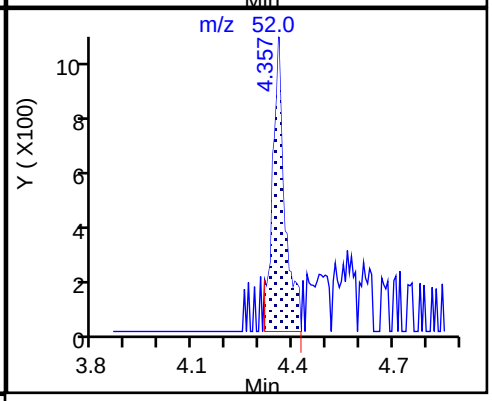
Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

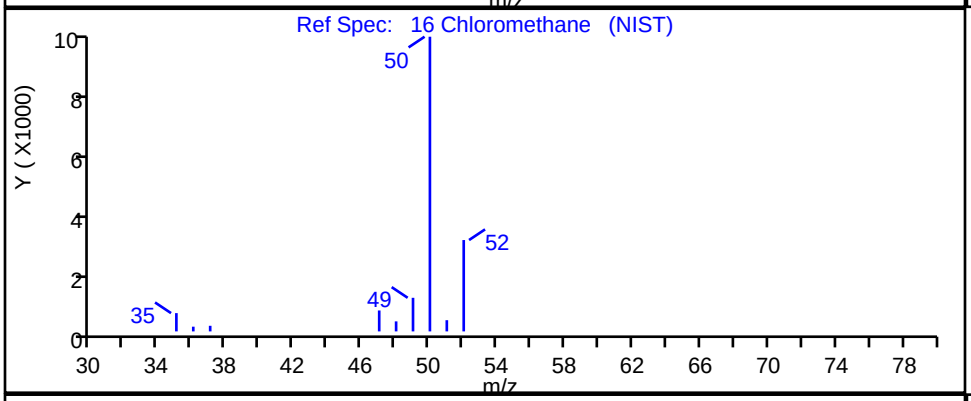
16 Chloromethane, CAS: 74-87-3

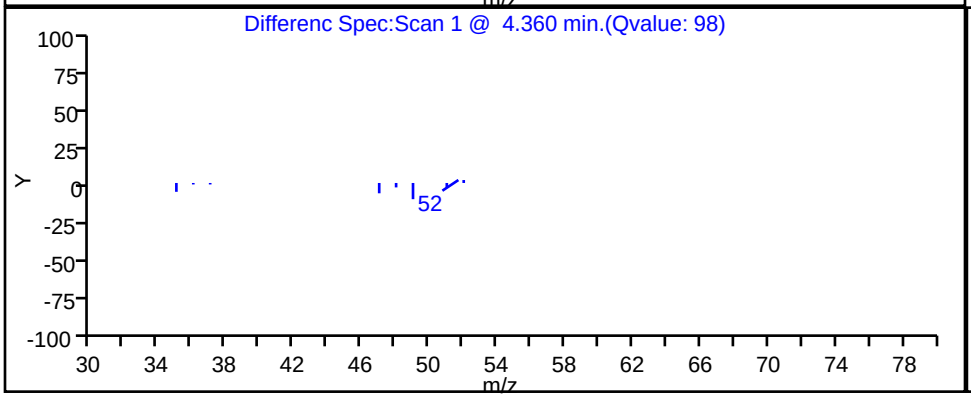


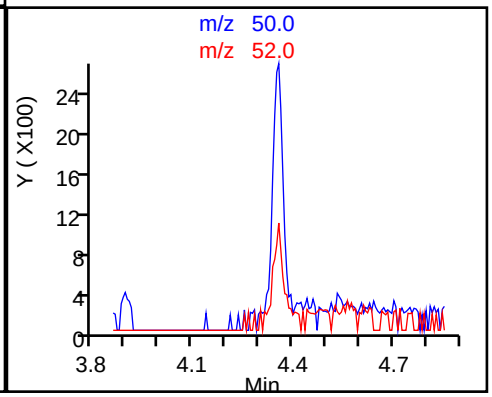












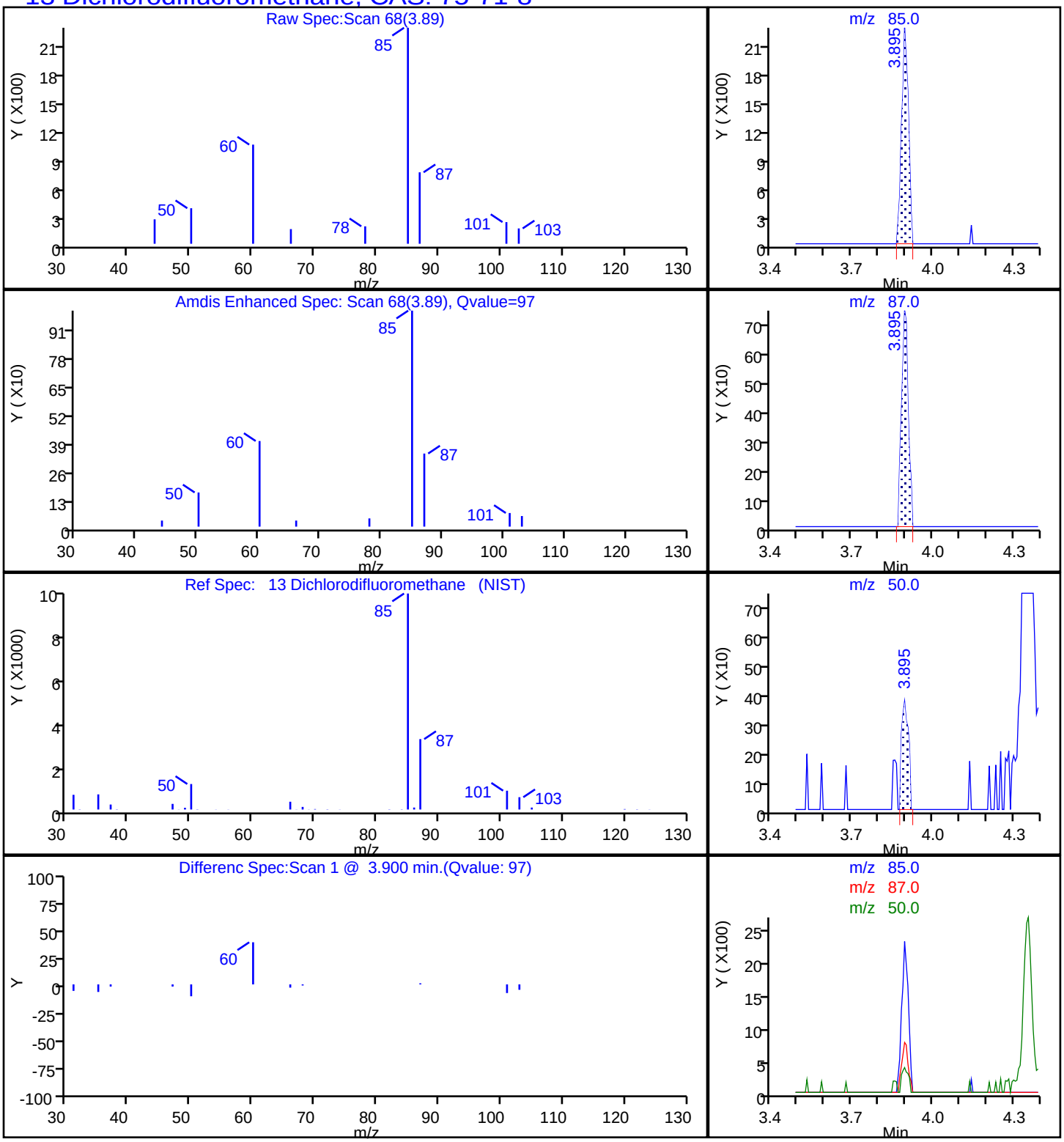
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8



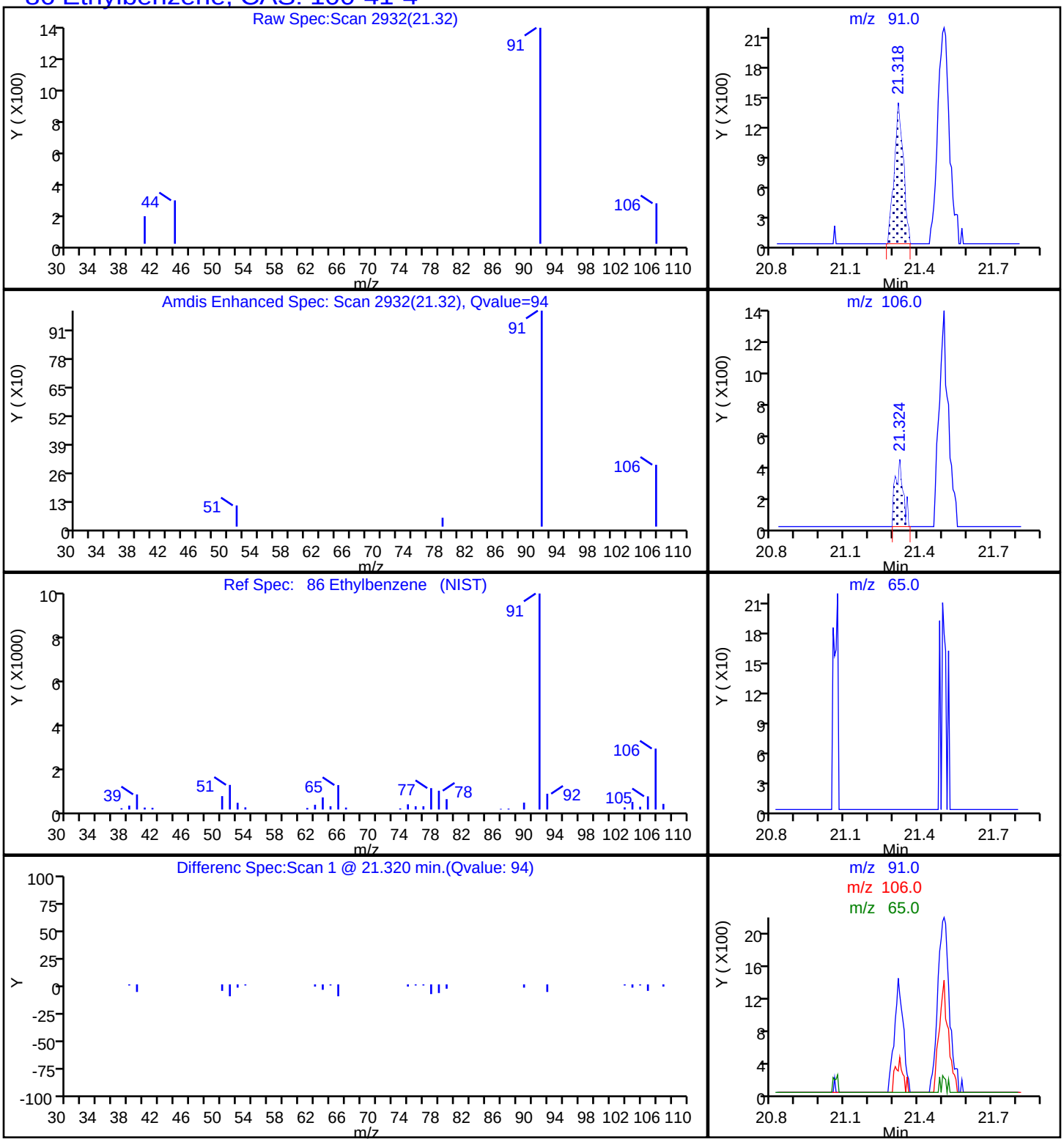
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



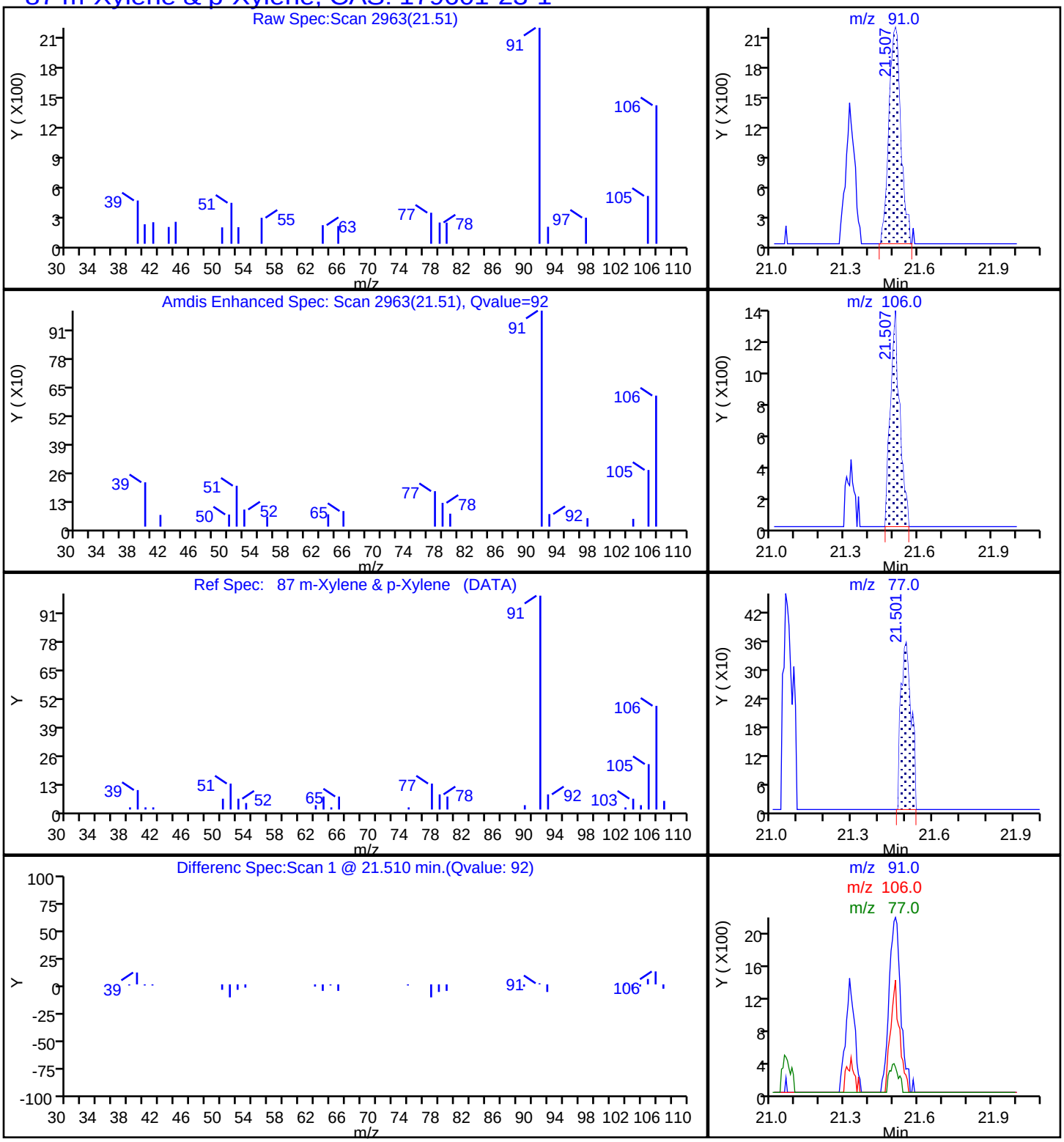
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



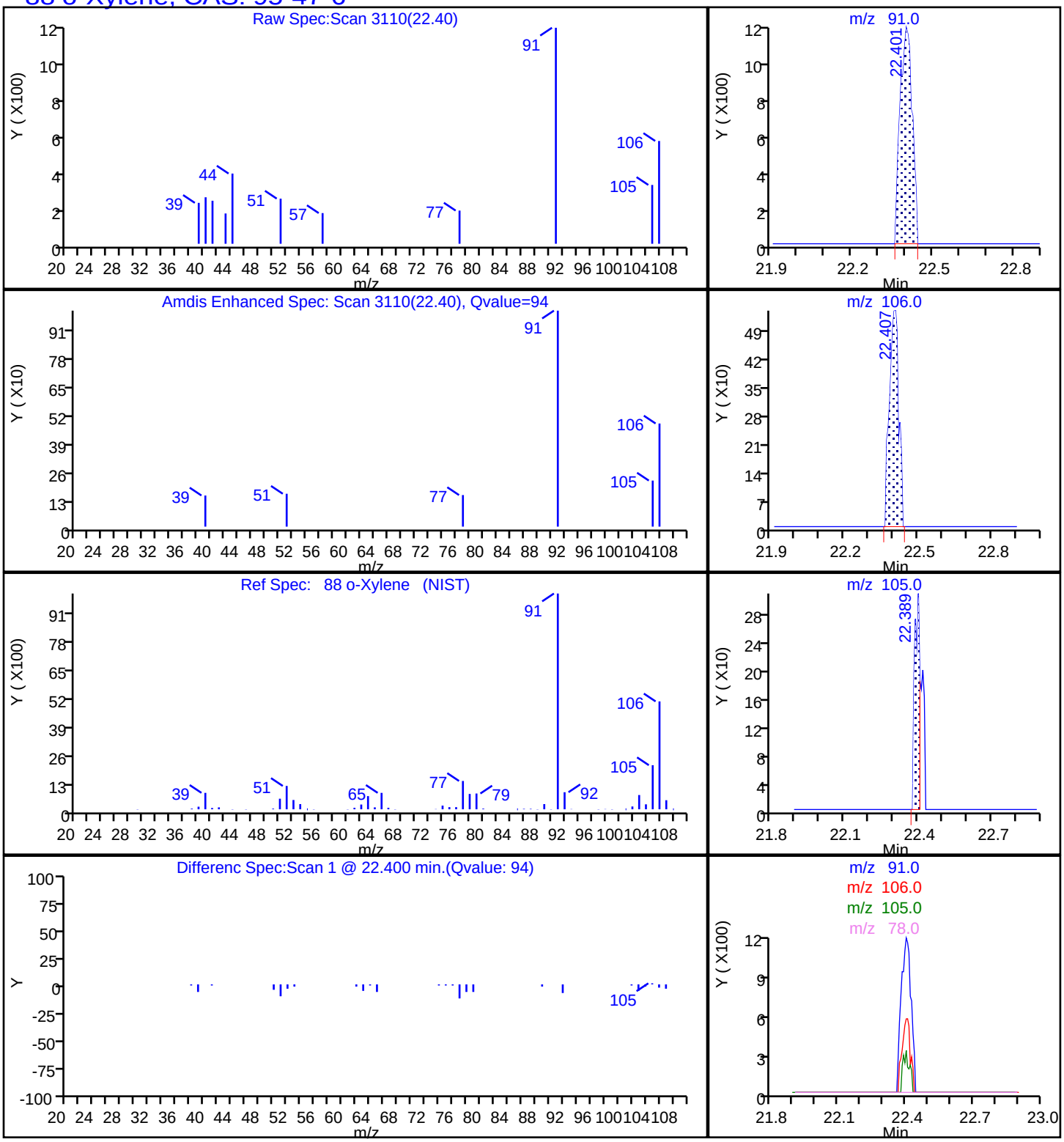
Report Date: 06-Apr-2018 12:24:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



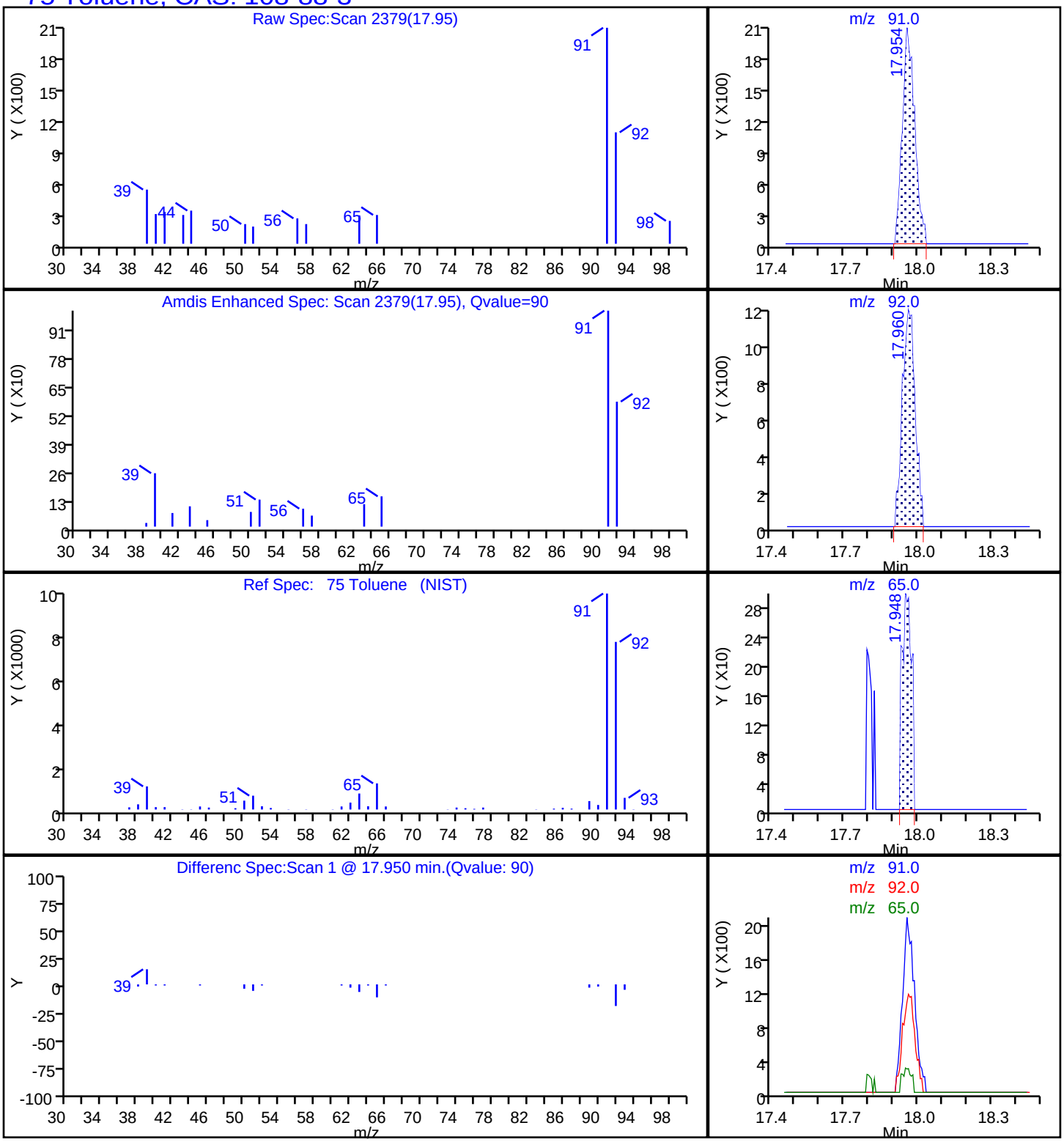
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



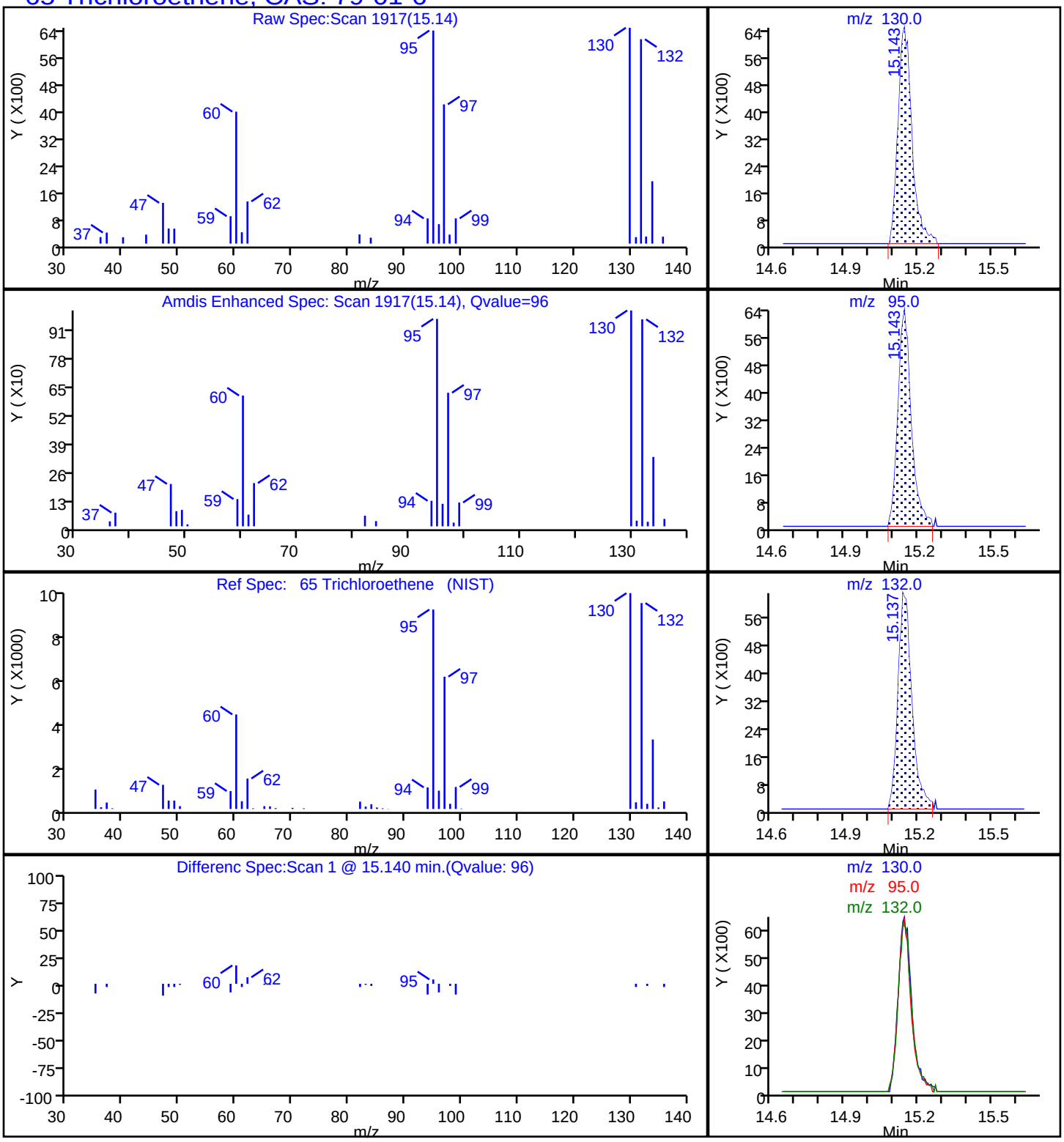
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



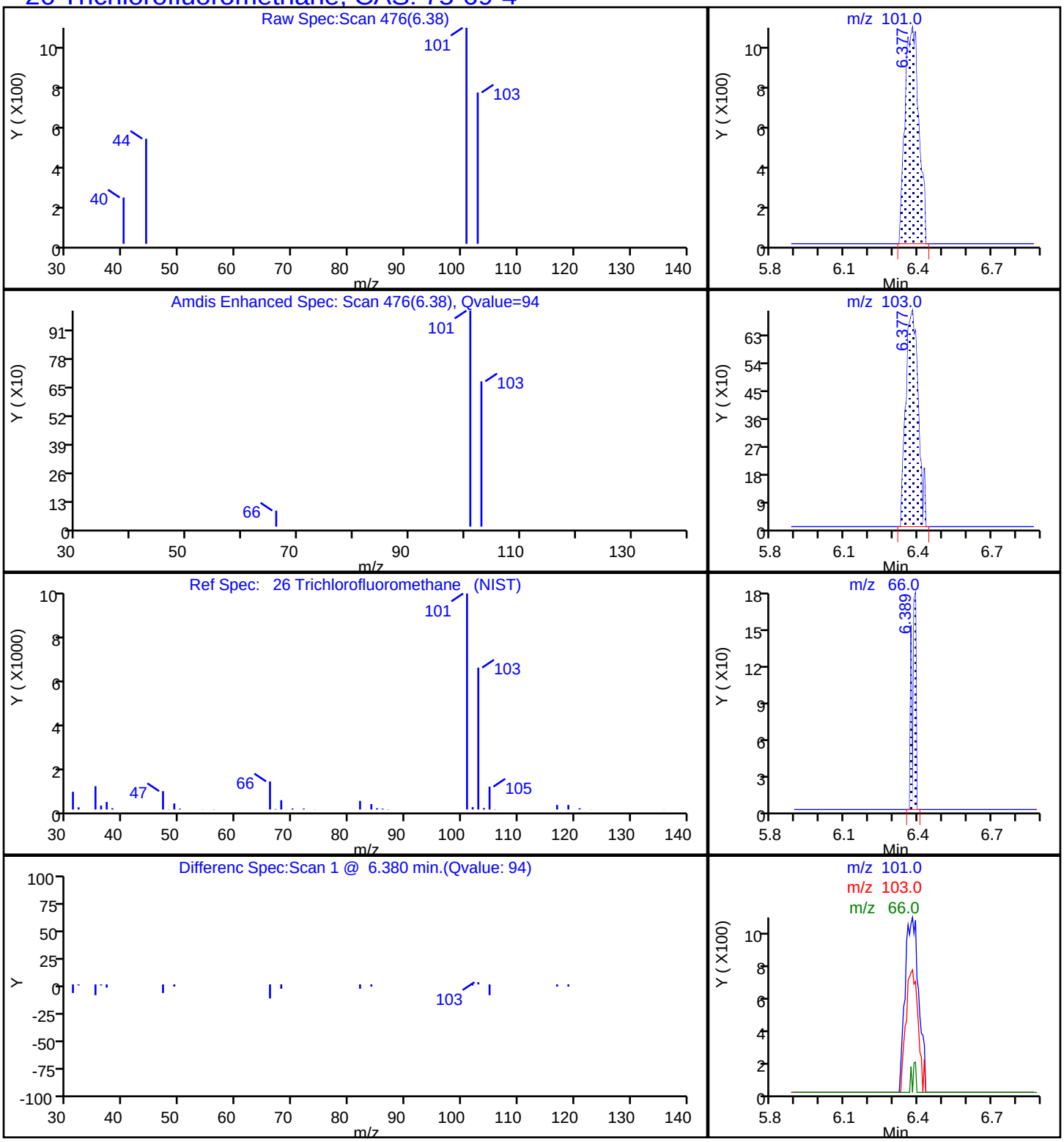
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D

Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12
Client ID:	785VMP-2_0318-a		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

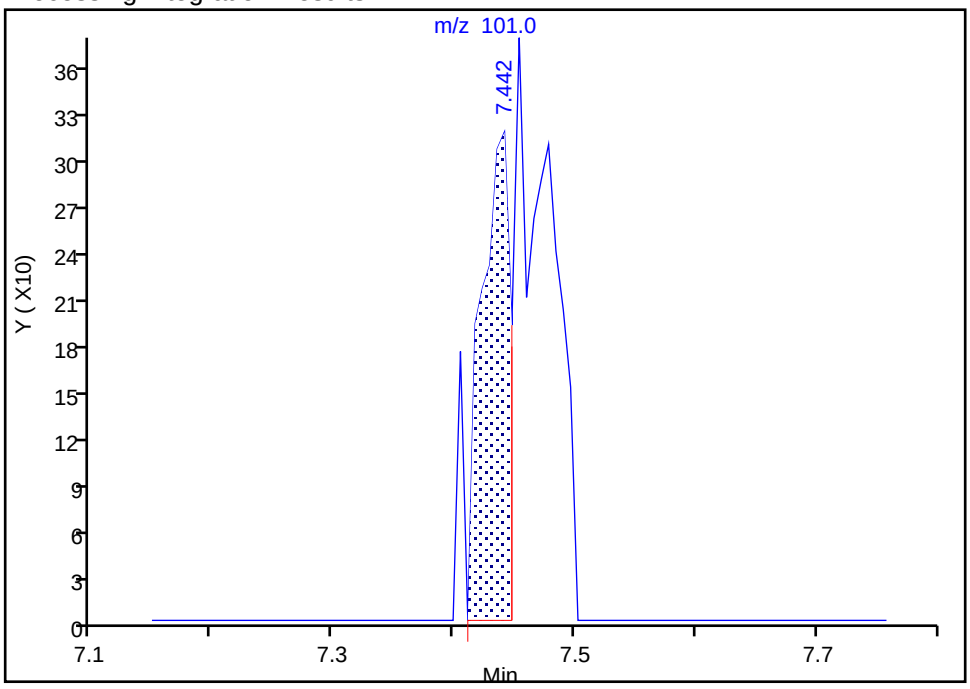
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D				
Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

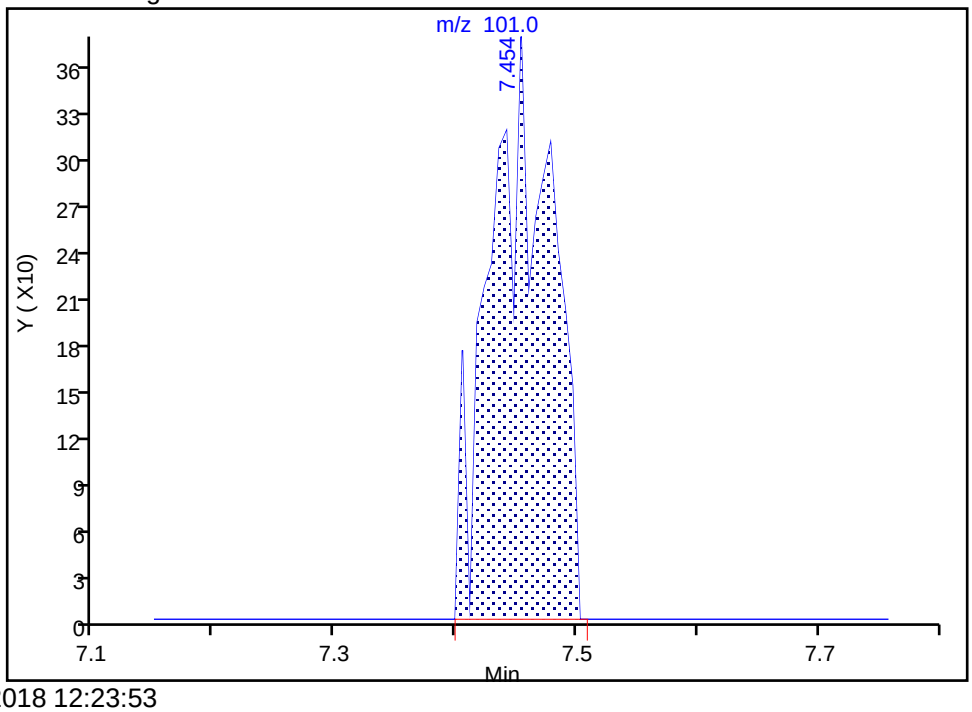
Processing Integration Results

RT: 7.44
Area: 529
Amount: 0.043962
Amount Units: ppb v/v



Manual Integration Results

RT: 7.45
Area: 1333
Amount: 0.110777
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 12:23:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

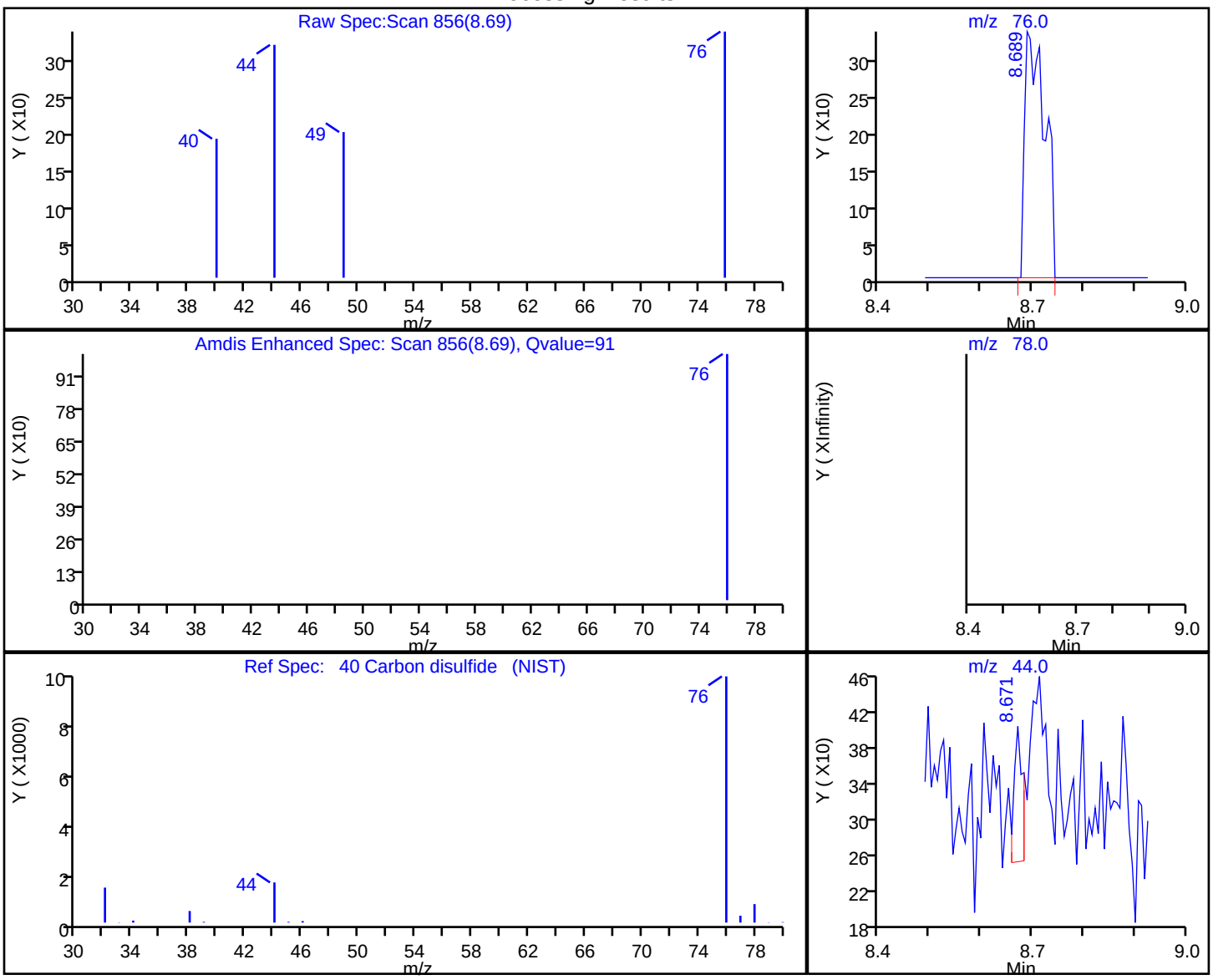
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D				
Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.69	76.00	909	0.073012
8.71	78.00	0	
8.67	44.00	174	

Reviewer: phanthasena, 06-Apr-2018 12:24:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

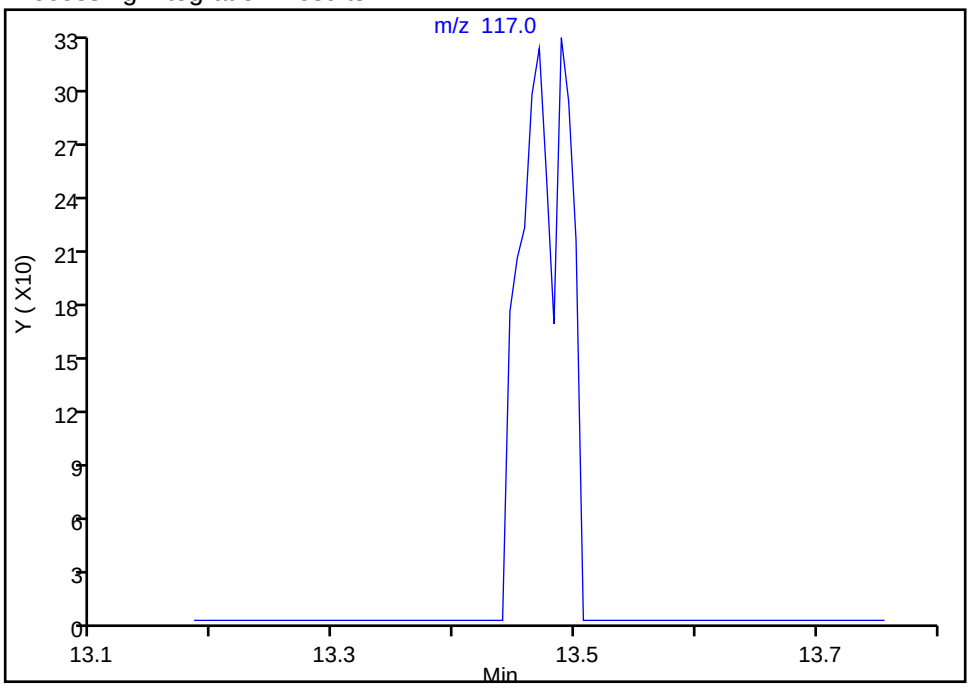
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040512.D				
Injection Date:	05-Apr-2018 21:11:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-12	Lab Sample ID:	320-37345-12		
Client ID:	785VMP-2_0318-a				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

59 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

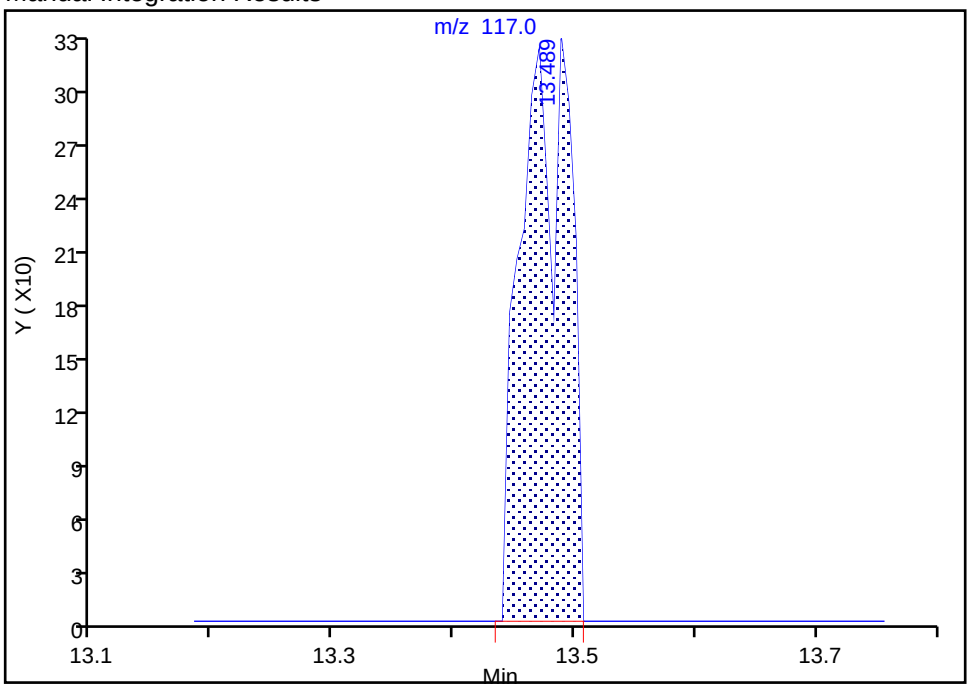
Not Detected
Expected RT: 13.48

Processing Integration Results



Manual Integration Results

RT: 13.49
Area: 900
Amount: 0.055690
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 12:24:06
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-4_0318 | Lab Sample ID: 320-37345-13

Matrix: Air | Lab File ID: MS7040513.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 17:00

Sample wt/vol: 390(mL) | Date Analyzed: 04/05/2018 22:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifl uoroethane	1.2	J M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	4.5		3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	1.5	J	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	U	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U M	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	25		12	0.95	0.42
71-43-2	Benzene	0.56	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U M	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	1.1	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-4_0318 Lab Sample ID: 320-37345-13

Matrix: Air Lab File ID: MS7040513.D

Analysis Method: TO-15 Date Collected: 03/21/2018 17:00

Sample wt/vol: 390(mL) Date Analyzed: 04/05/2018 22:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.0	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.53	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.47	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	1.5	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.94	J	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.97	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.6	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D
Lims ID: 320-37345-A-13
Client ID: 785VMP-4_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 22:08:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-13
Misc. Info.: 390 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 12:50:32 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 12:50:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.223	12.223	0.000	93	28299	4.00	
* 2 1,4-Difluorobenzene	114	14.383	14.383	0.000	96	125207	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.063	0.000	92	129614	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.428	13.428	0.000	96	50951	4.31	
$ 5 Toluene-d8 (Surr)	100	17.790	17.784	0.006	97	86624	3.97	
$ 6 4-Bromofluorobenzene (Surr	95	23.606	23.606	0.000	85	94436	3.92	
13 Dichlorodifluoromethane	85	3.925	3.909	0.018	97	4729	0.4145	
16 Chloromethane	50	4.388	4.359	0.031	96	3199	0.5231	
26 Trichlorofluoromethane	101	6.407	6.392	0.018	94	4569	0.2925	
32 Acetone	43	7.326	7.305	0.024	100	137502	10.3	
33 1,1,2-Trichloro-1,2,2-trif	101	7.478	7.478	0.006	58	1939	0.1510	M
39 Methylene Chloride	49	8.683	8.663	0.025	81	1468	0.1353	
48 2-Butanone (MEK)	72	11.250	11.176	0.079	91	576	0.1593	
59 Carbon tetrachloride	117	13.489	13.483	0.006	76	1287	0.0728	
63 Benzene	78	13.763	13.756	0.006	92	4105	0.1748	
75 Toluene	91	17.966	17.960	0.006	92	8500	0.2572	
86 Ethylbenzene	91	21.318	21.312	0.006	94	5530	0.1220	
87 m-Xylene & p-Xylene	91	21.507	21.495	0.012	96	12108	0.3451	
88 o-Xylene	91	22.401	22.401	0.000	97	7575	0.2169	
102 4-Ethyltoluene	120	24.263	24.263	0.000	97	2485	0.1690	M
104 1,3,5-Trimethylbenzene	120	24.354	24.360	-0.006	92	6726	0.3110	
107 1,2,4-Trimethylbenzene	120	25.157	25.151	0.006	98	17955	0.9144	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

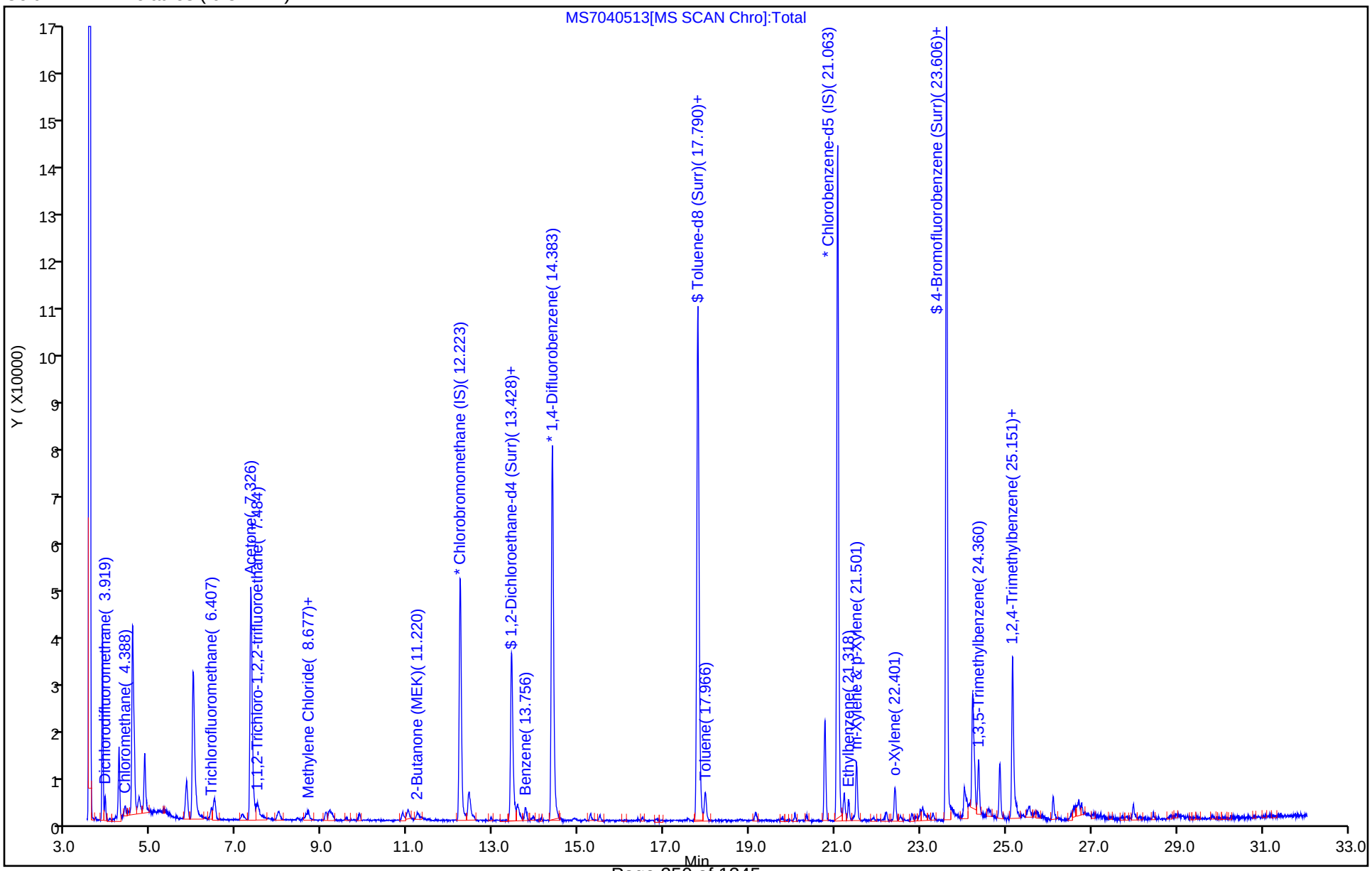
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13	Worklist Smp#:	11
Client ID:	785VMP-4_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D
Lims ID: 320-37345-A-13
Client ID: 785VMP-4_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 22:08:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-13
Misc. Info.: 390 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 12:50:32 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 12:50:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.31	107.87
$ 5 Toluene-d8 (Surr)	4.00	3.97	99.30
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.92	98.06

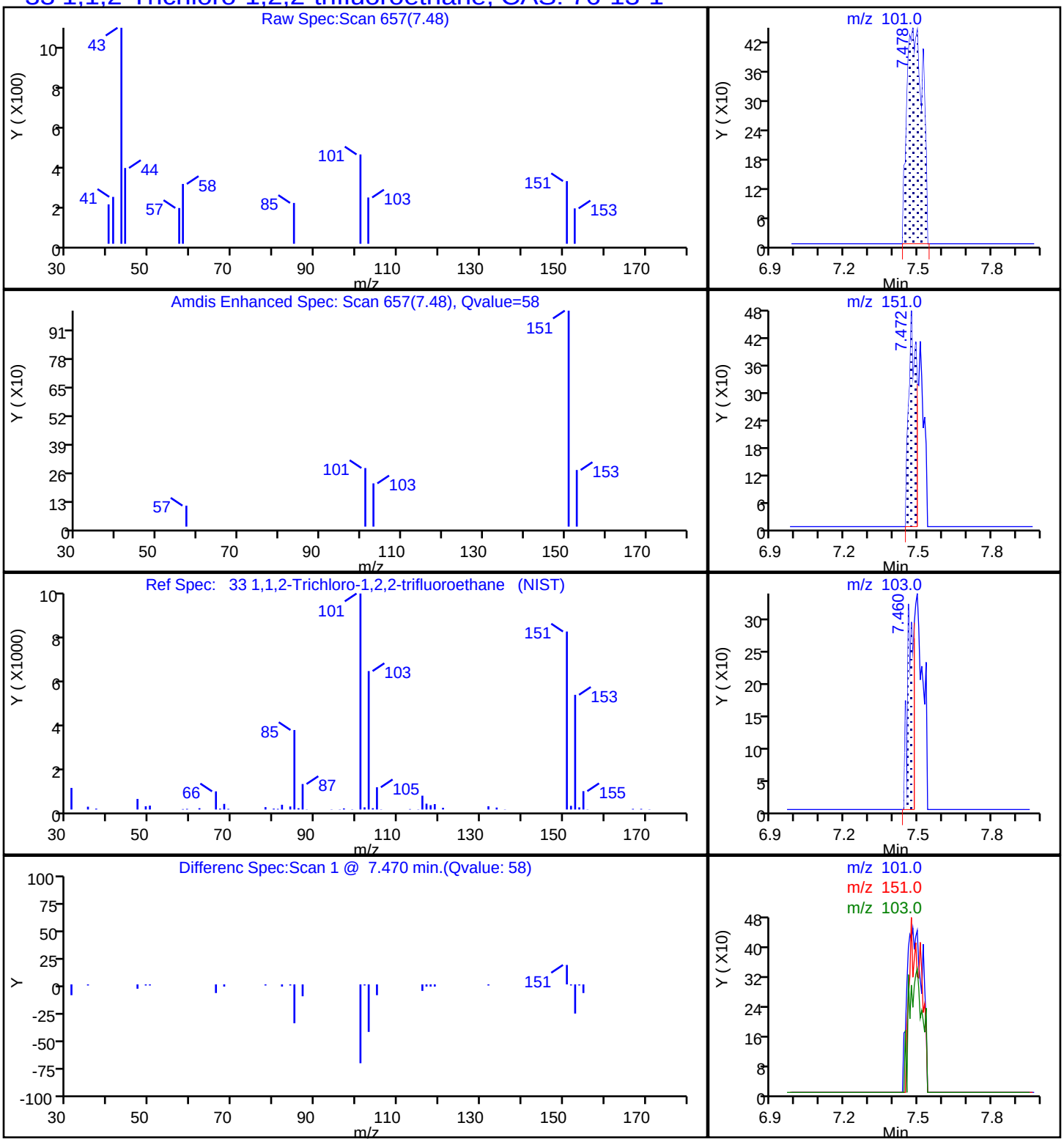
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



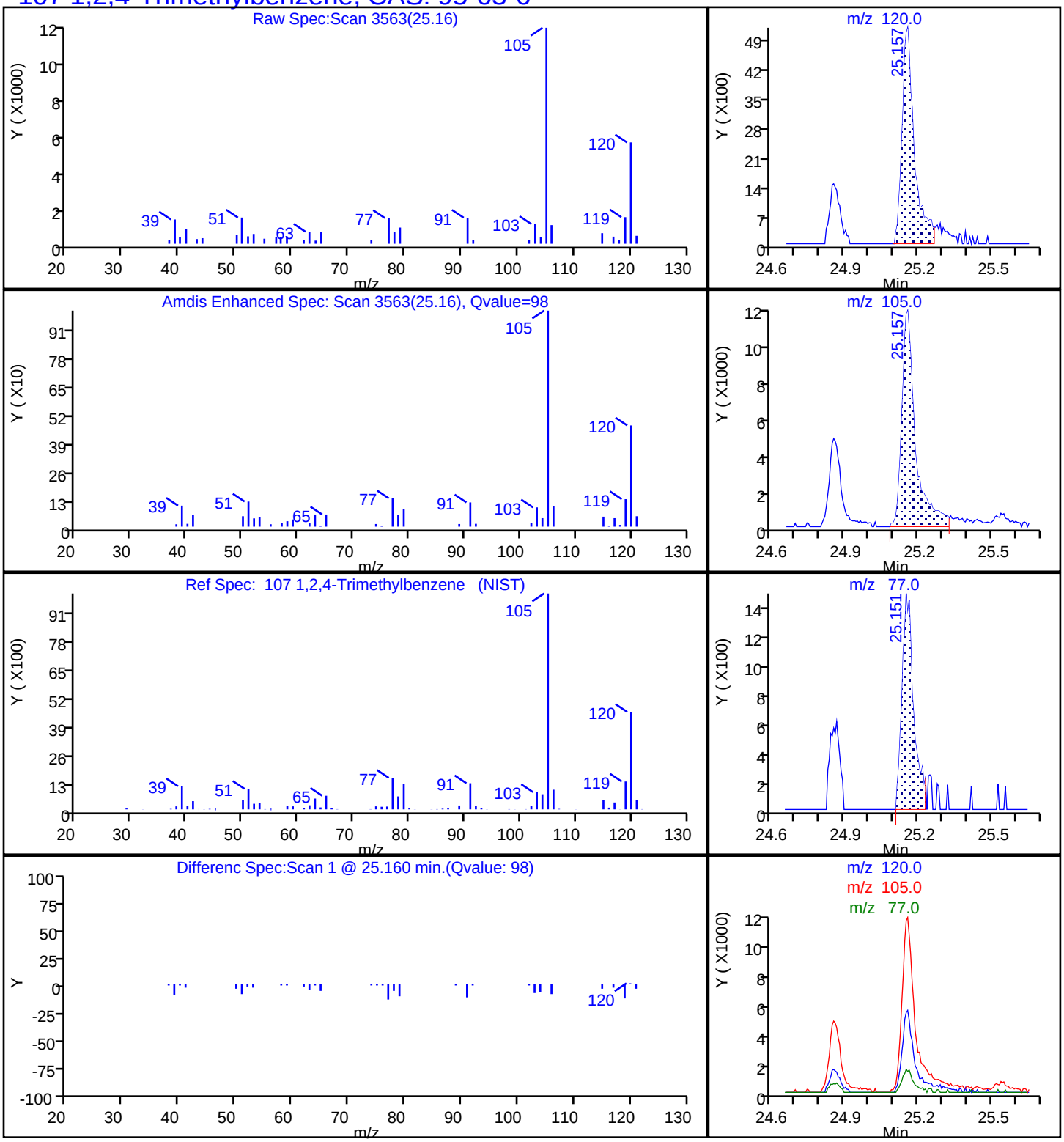
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TestAmerica Sacramento

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Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

107 1,2,4-Trimethylbenzene, CAS: 95-63-6



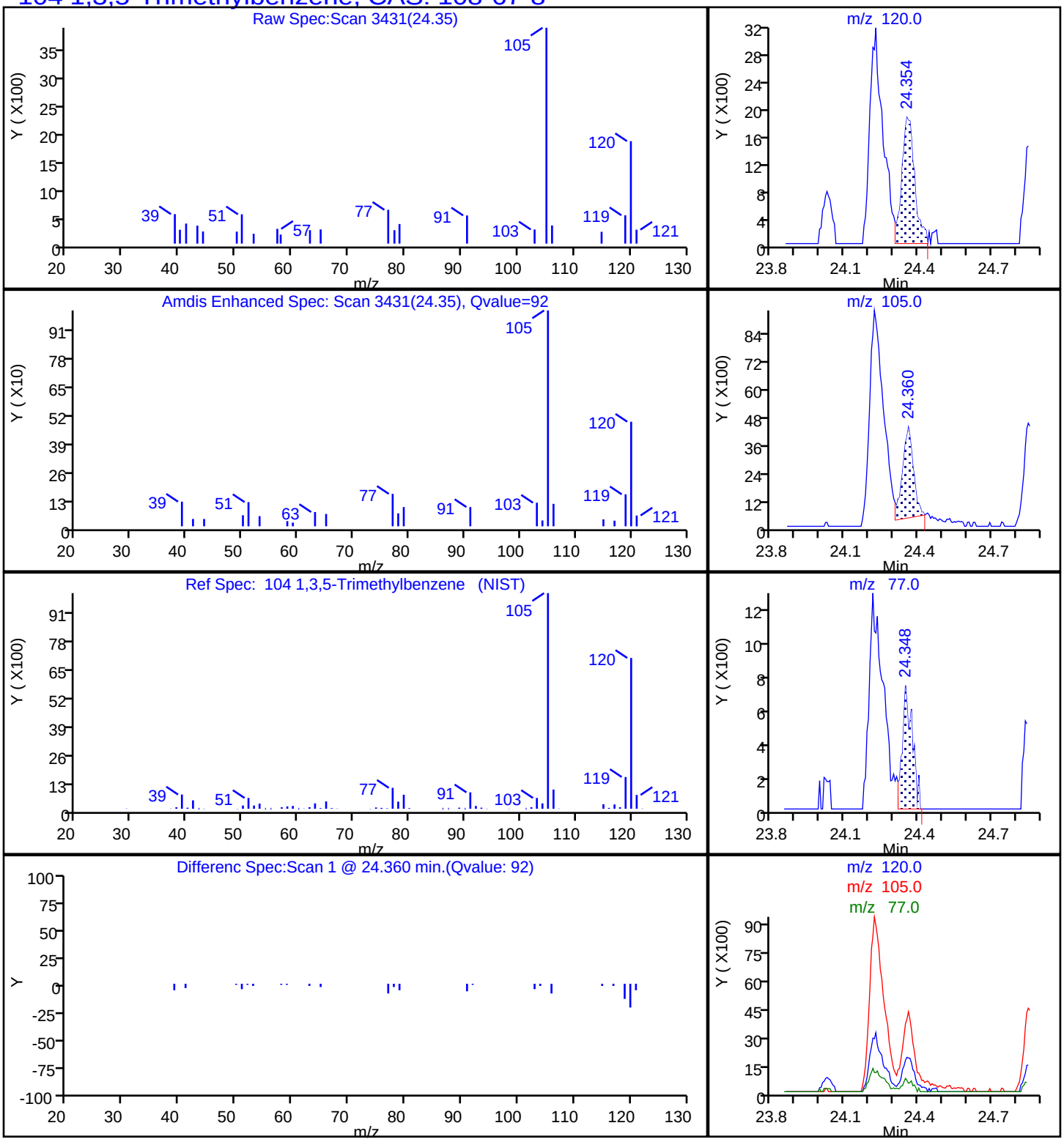
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TestAmerica Sacramento

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Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

104 1,3,5-Trimethylbenzene, CAS: 108-67-8



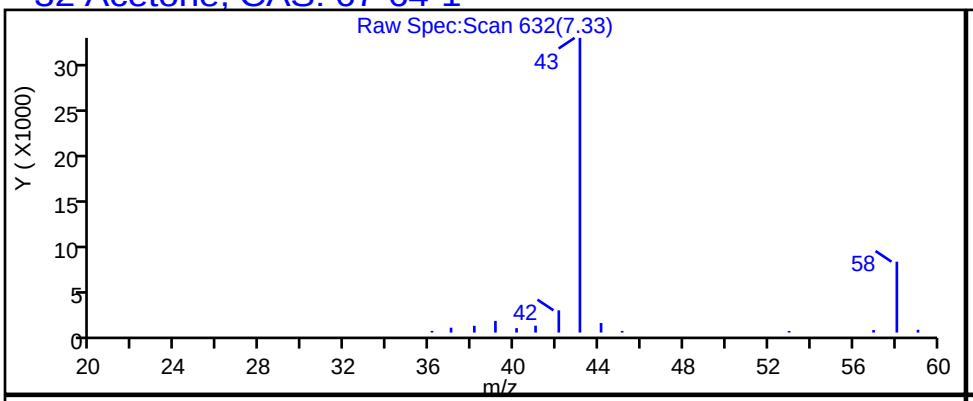
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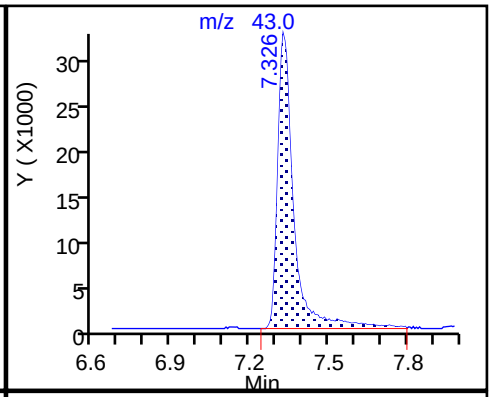
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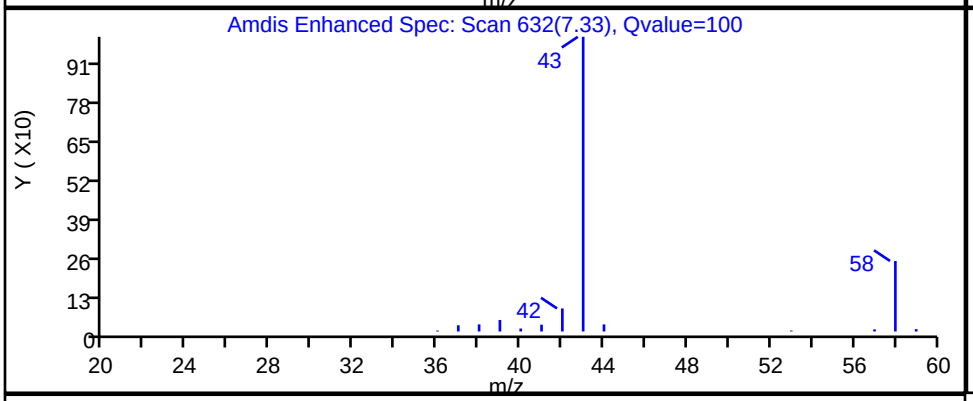
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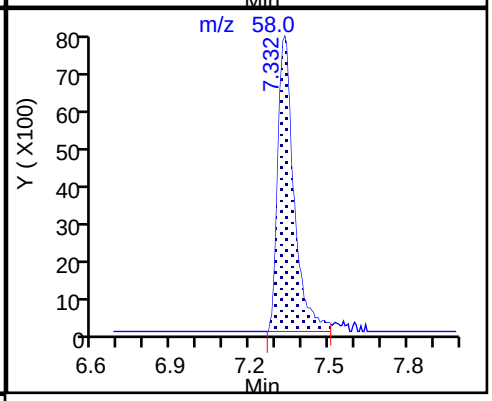
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Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

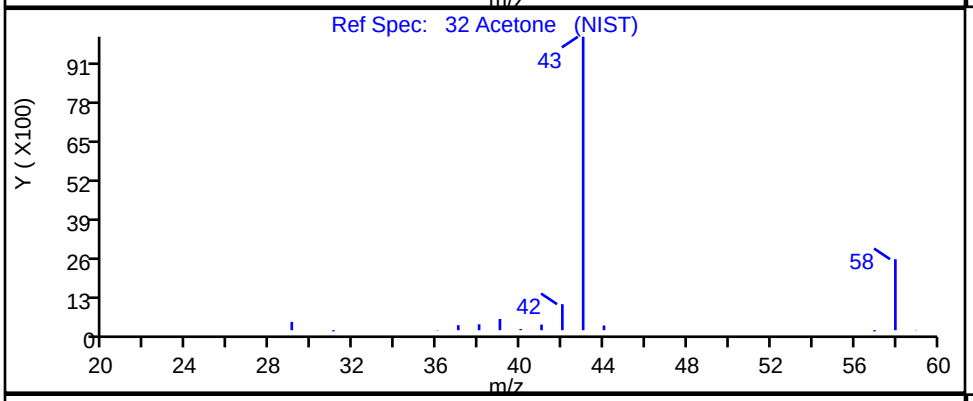
32 Acetone, CAS: 67-64-1

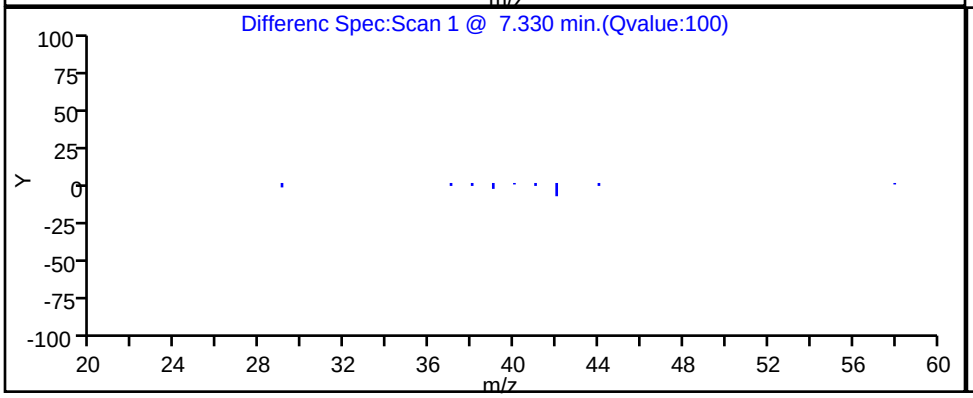


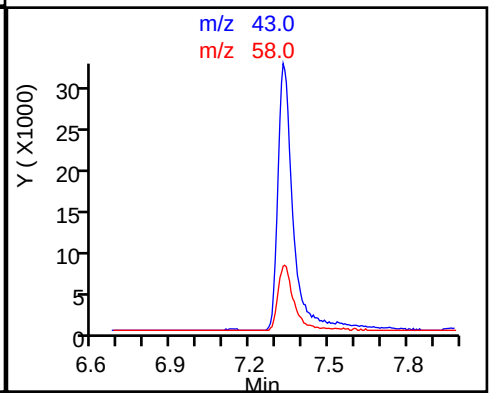












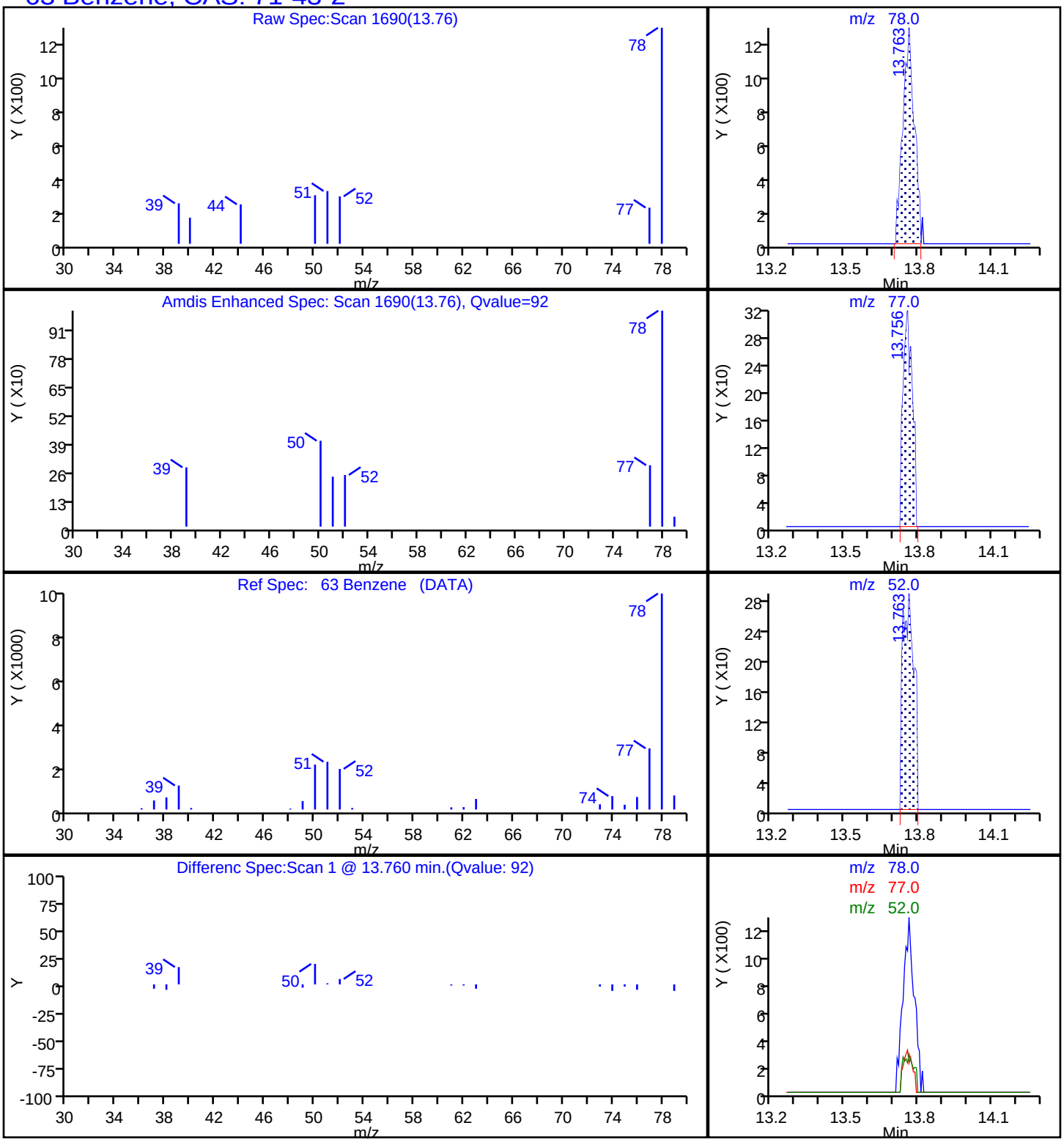
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TestAmerica Sacramento

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Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



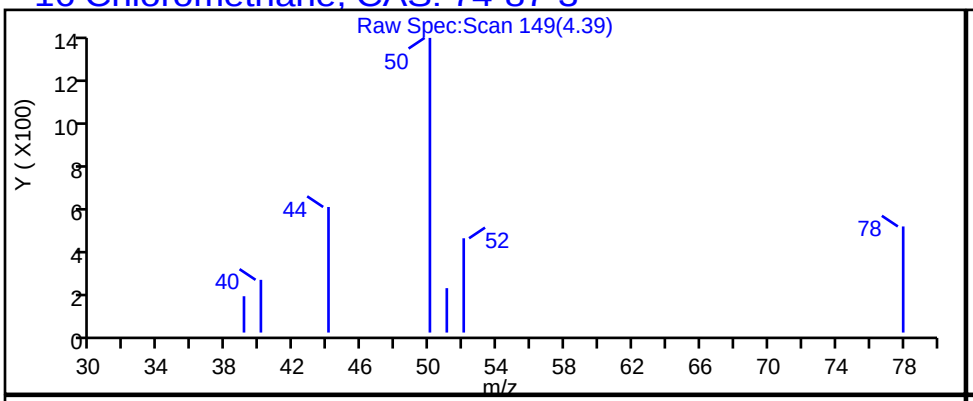
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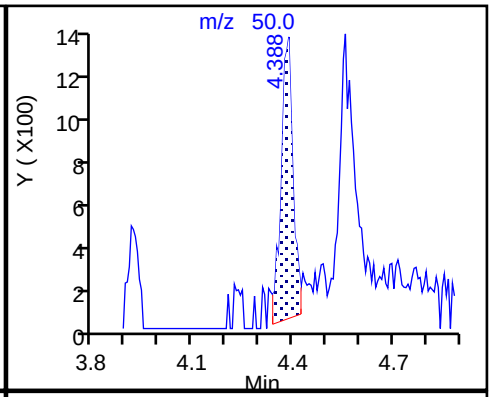
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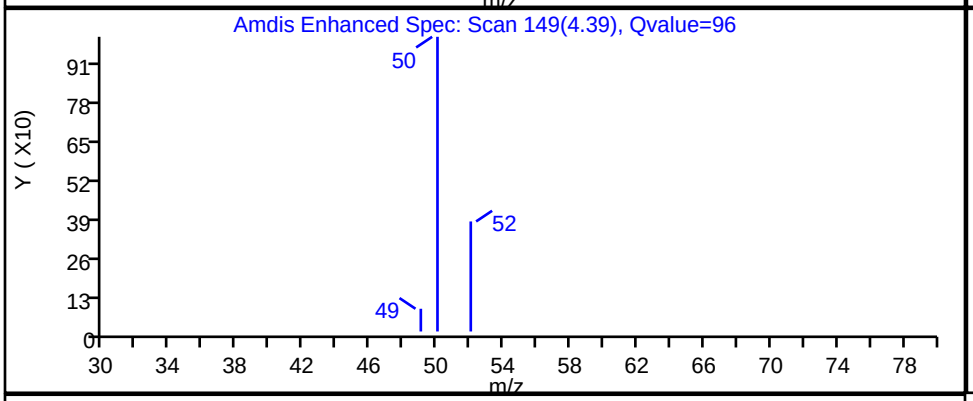
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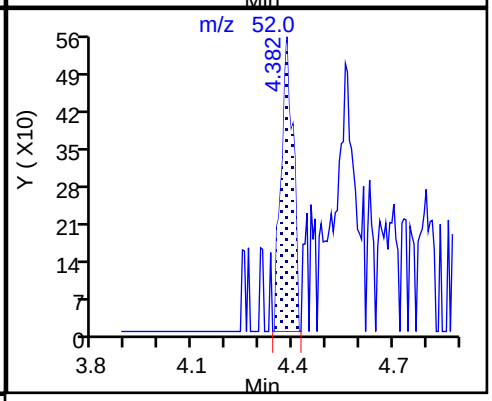
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Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

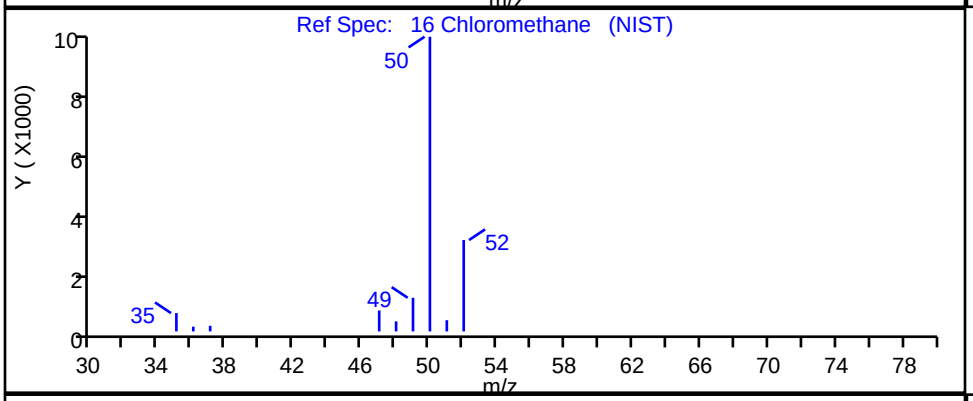
16 Chloromethane, CAS: 74-87-3

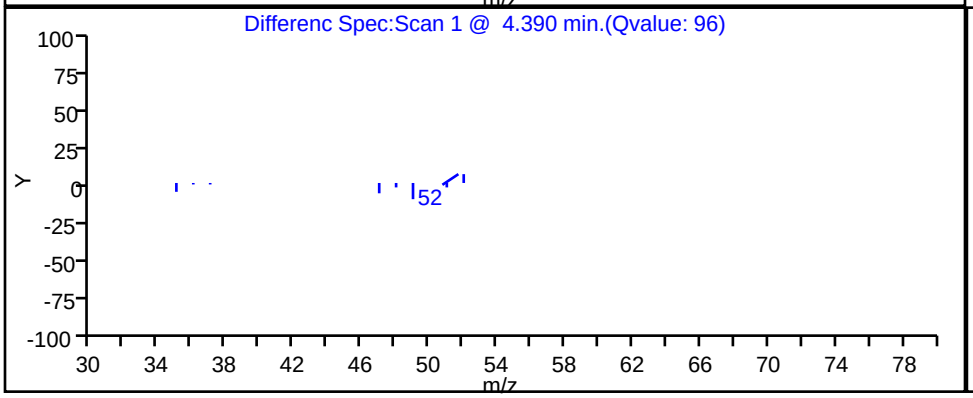


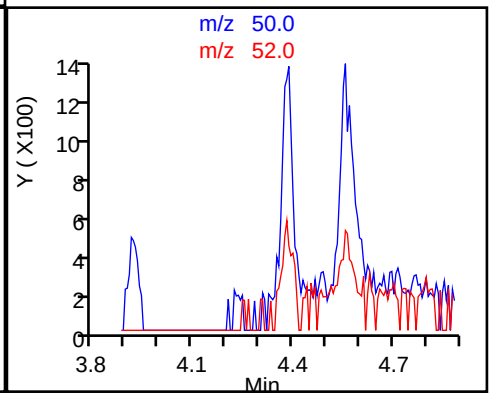












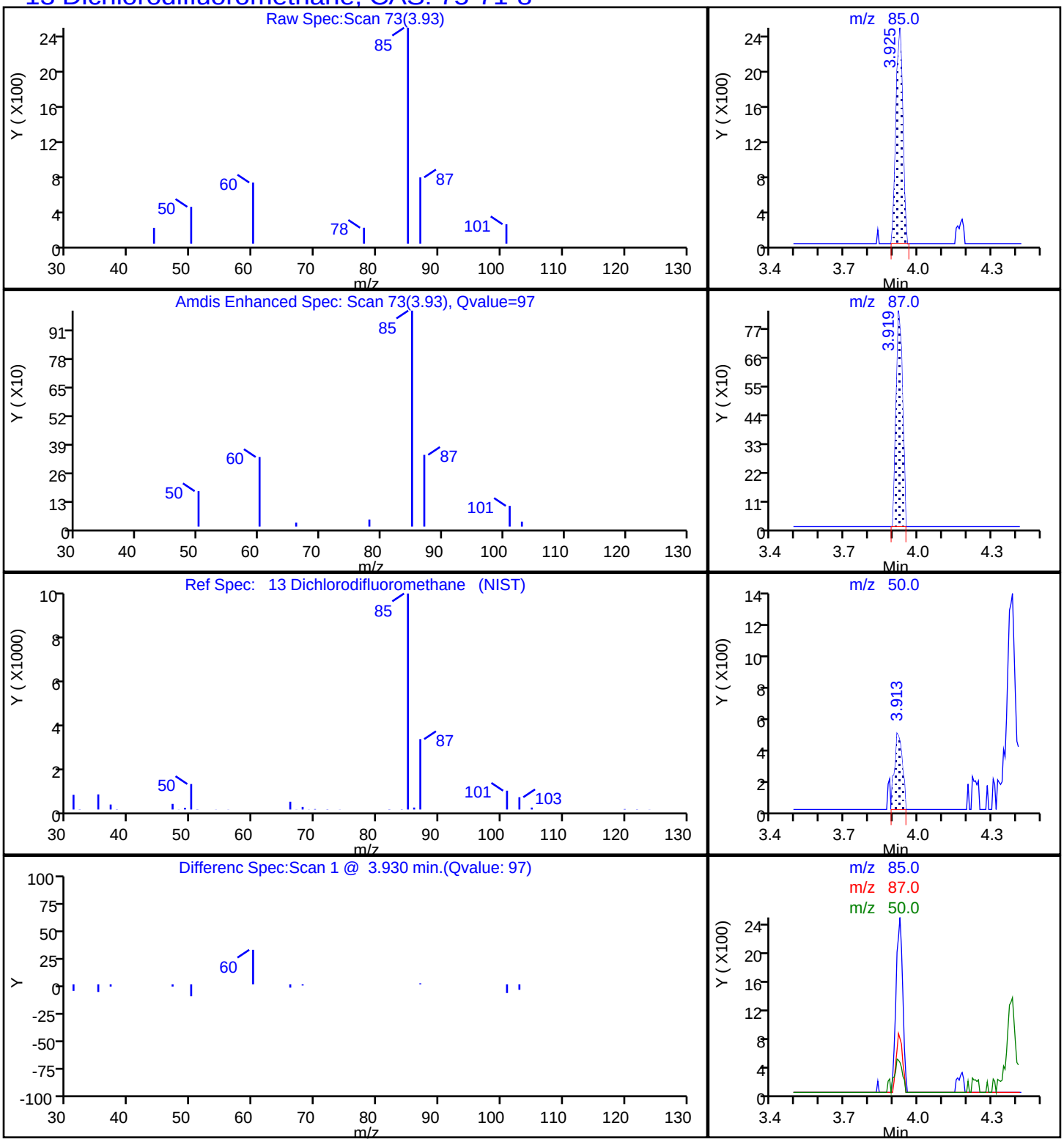
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



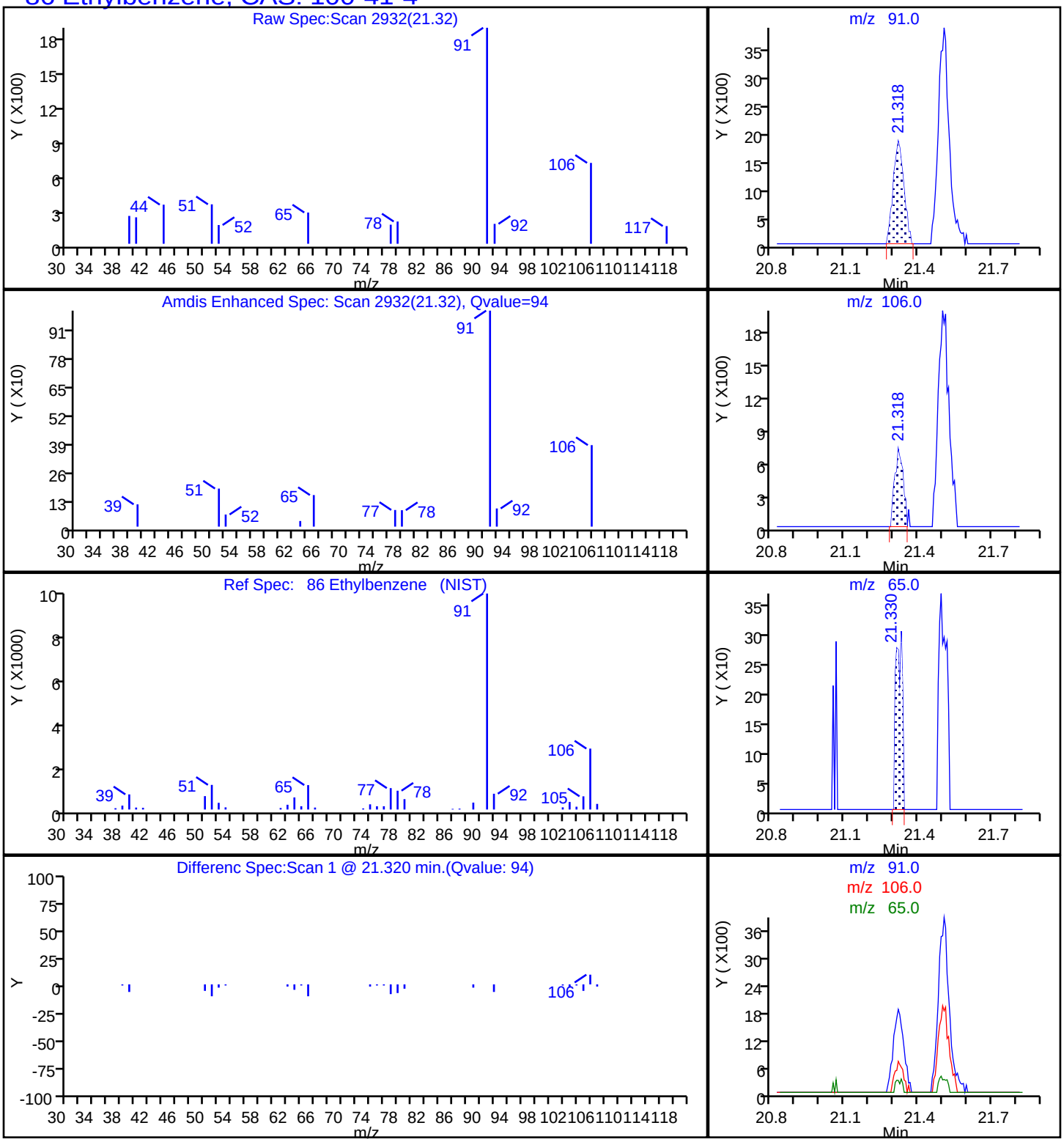
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



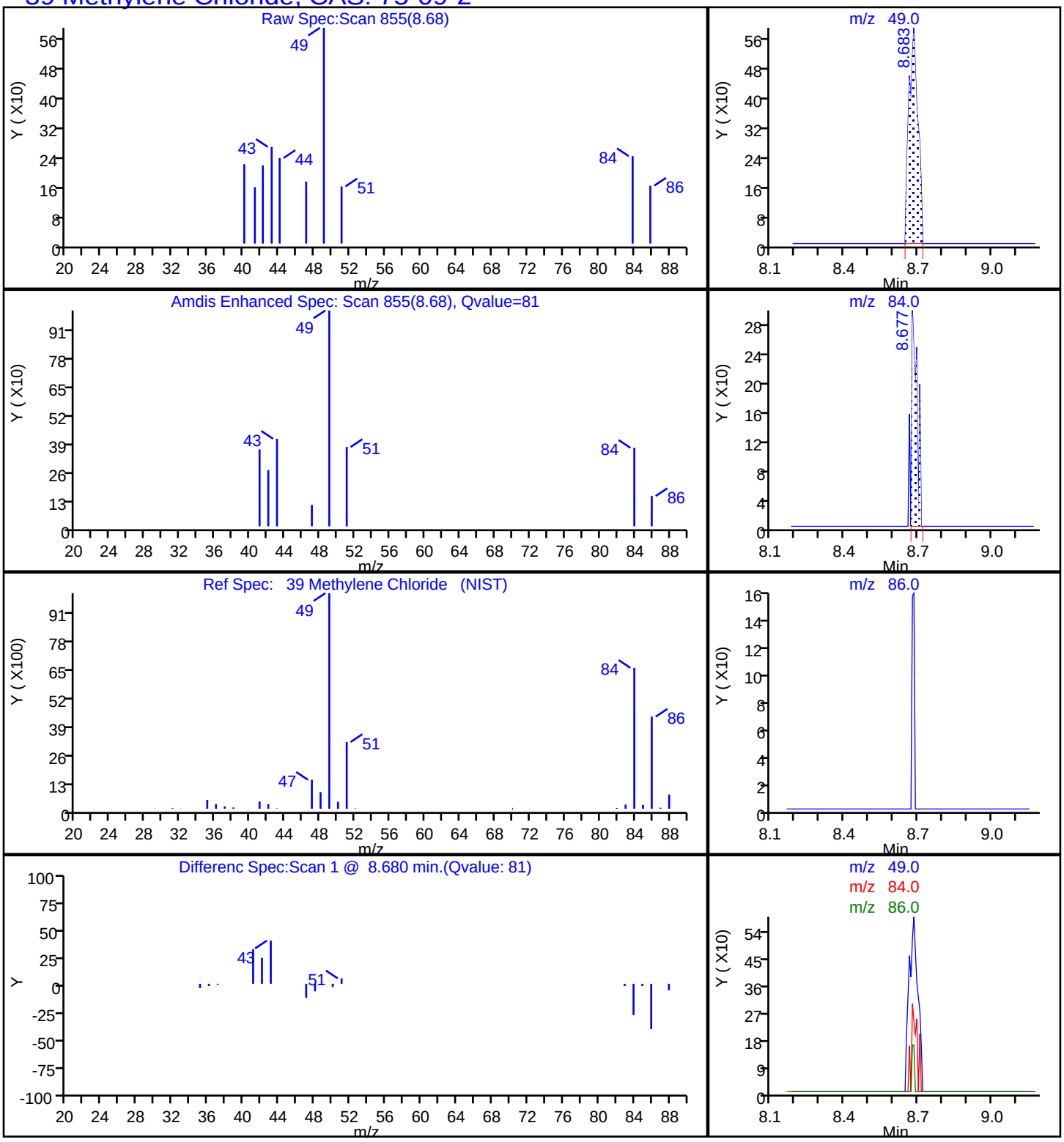
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



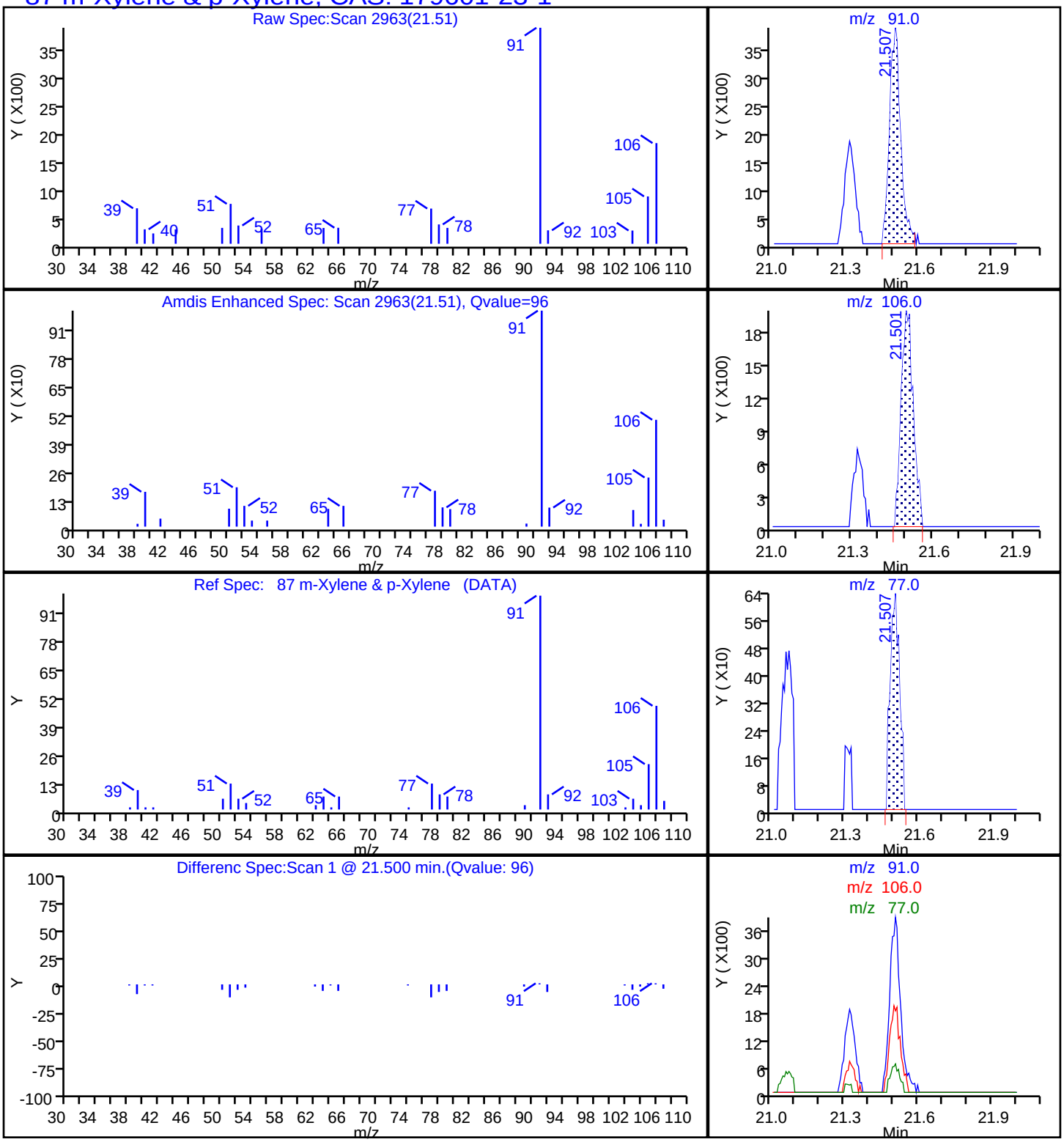
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



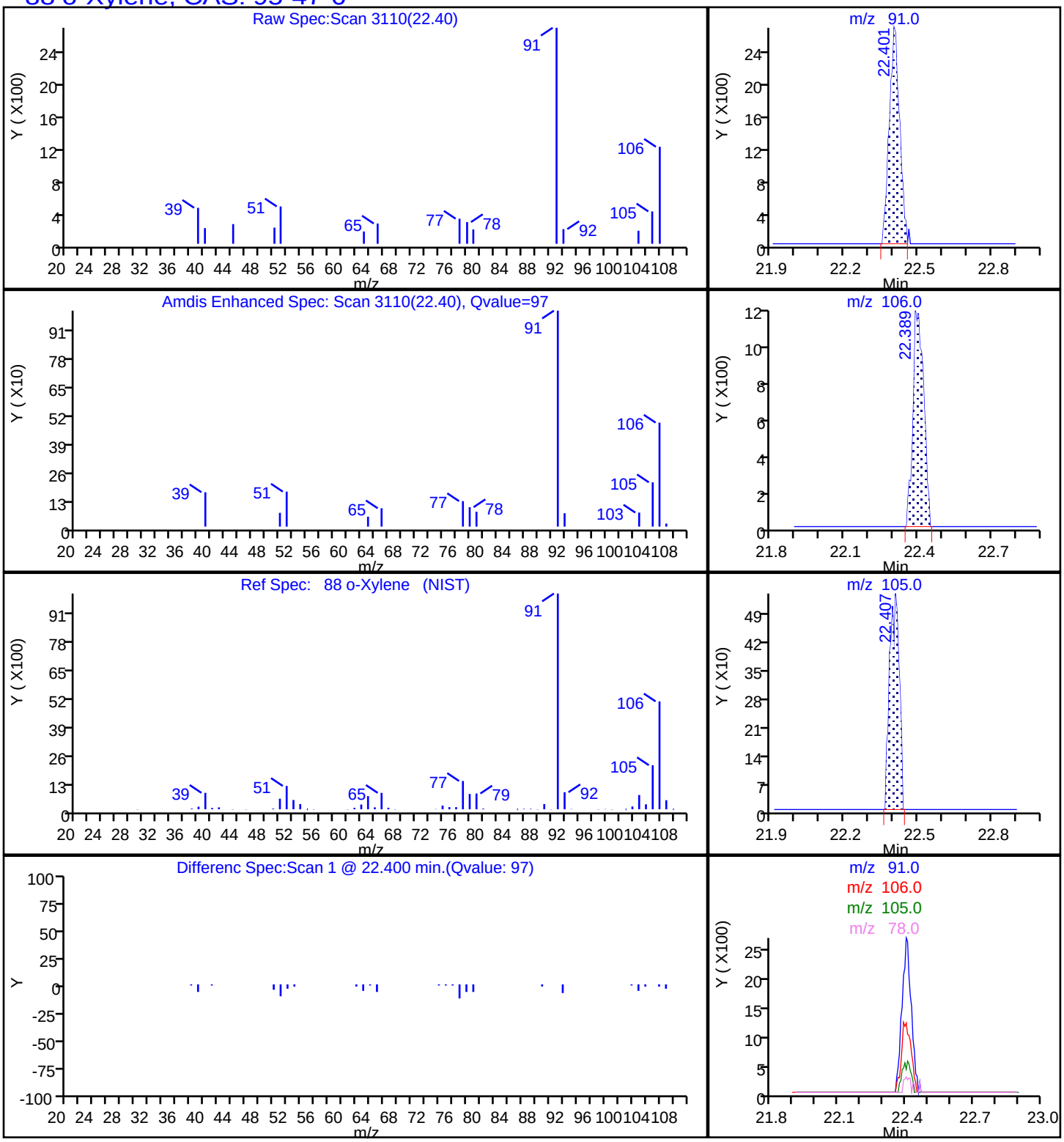
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



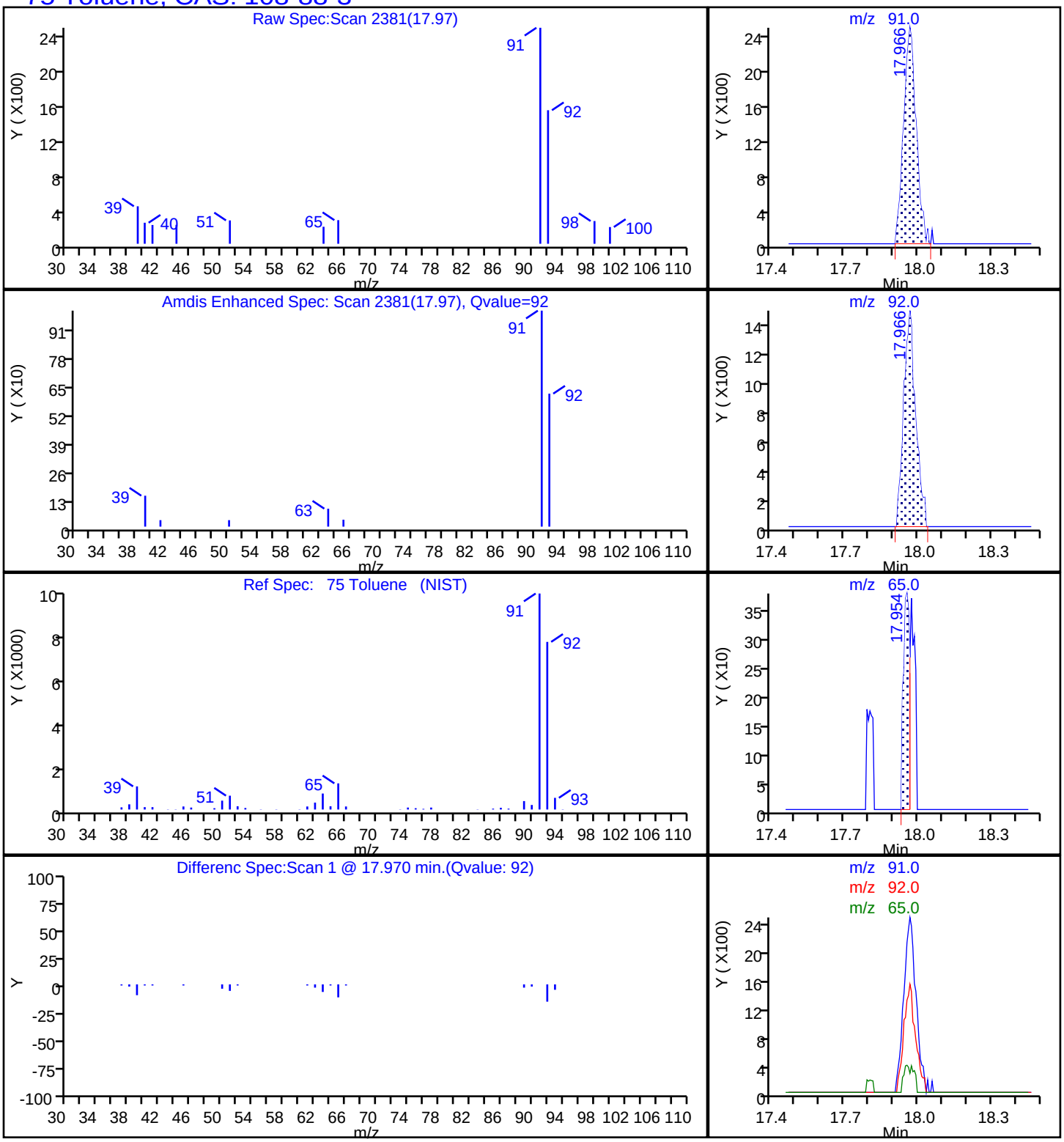
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



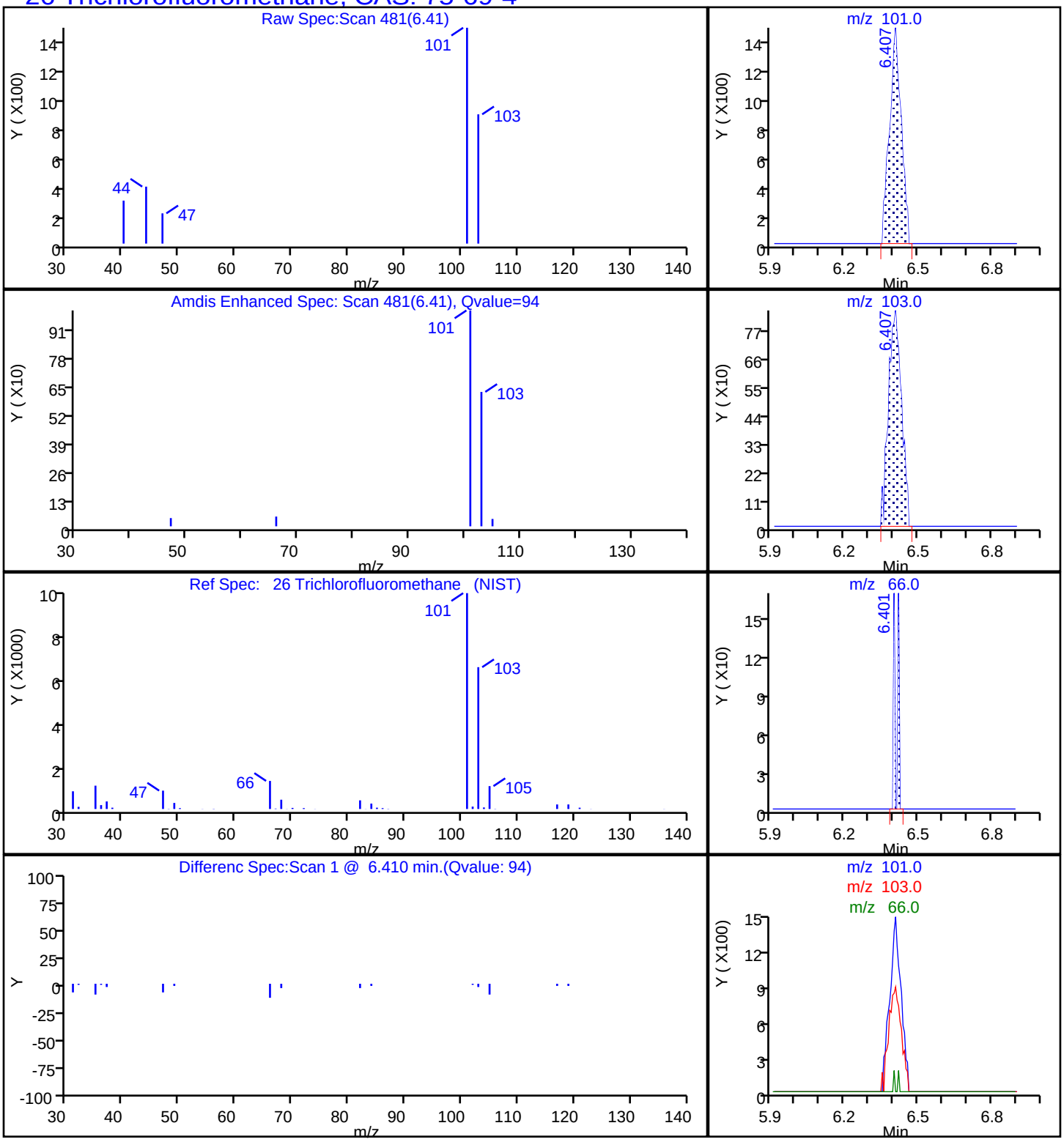
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TestAmerica Sacramento

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Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13
Client ID:	785VMP-4_0318		
Operator ID:	LHS	ALS Bottle#:	9 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

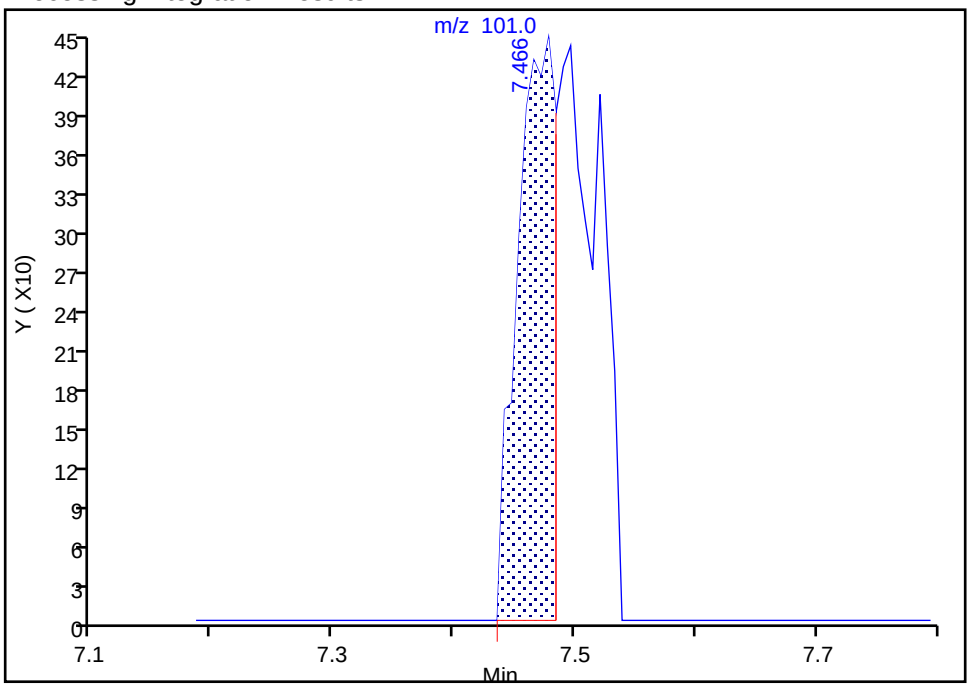
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Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13		
Client ID:	785VMP-4_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

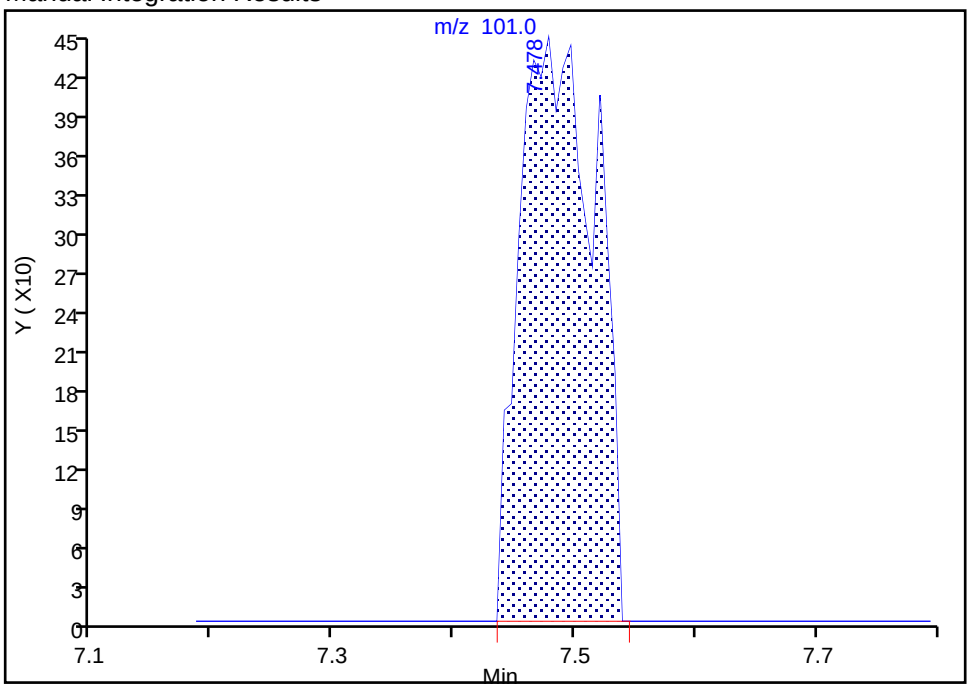
Processing Integration Results

RT: 7.47
Area: 975
Amount: 0.075952
Amount Units: ppb v/v



Manual Integration Results

RT: 7.48
Area: 1939
Amount: 0.151048
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 12:49:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

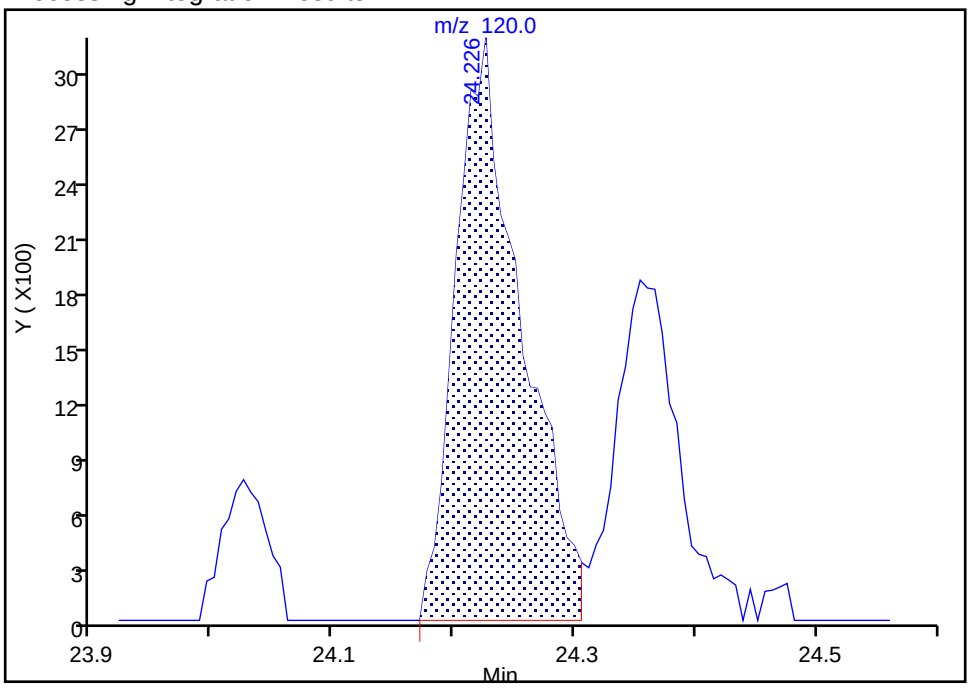
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Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13		
Client ID:	785VMP-4_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

102 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

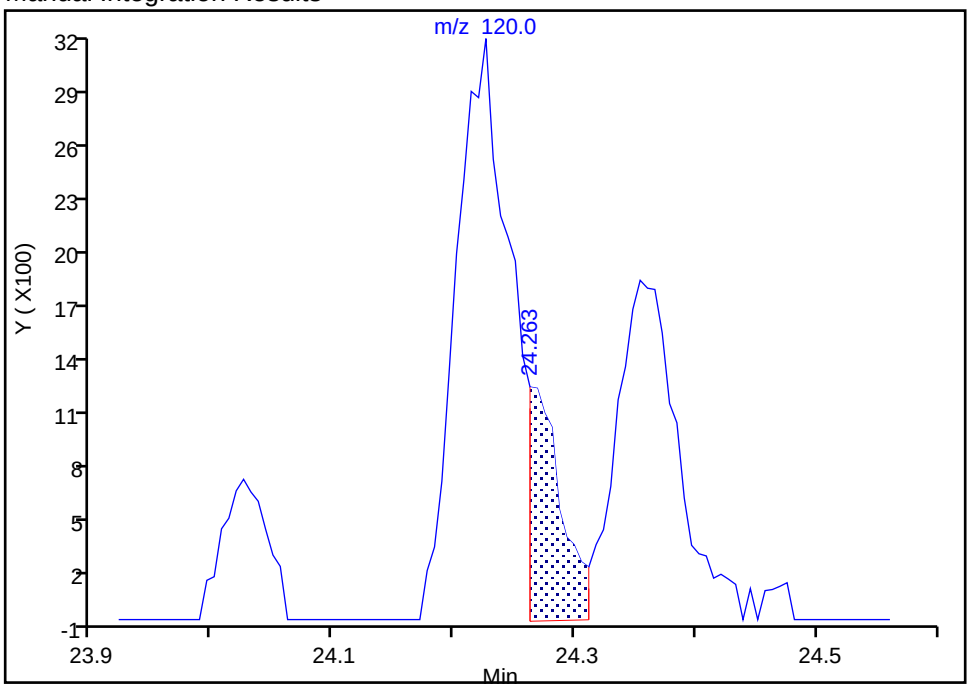
Processing Integration Results

RT: 24.23
Area: 11948
Amount: 0.812646
Amount Units: ppb v/v



Manual Integration Results

RT: 24.26
Area: 2485
Amount: 0.169018
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 12:50:21

Audit Action: Manually Integrated Audit Reason: Split Peak

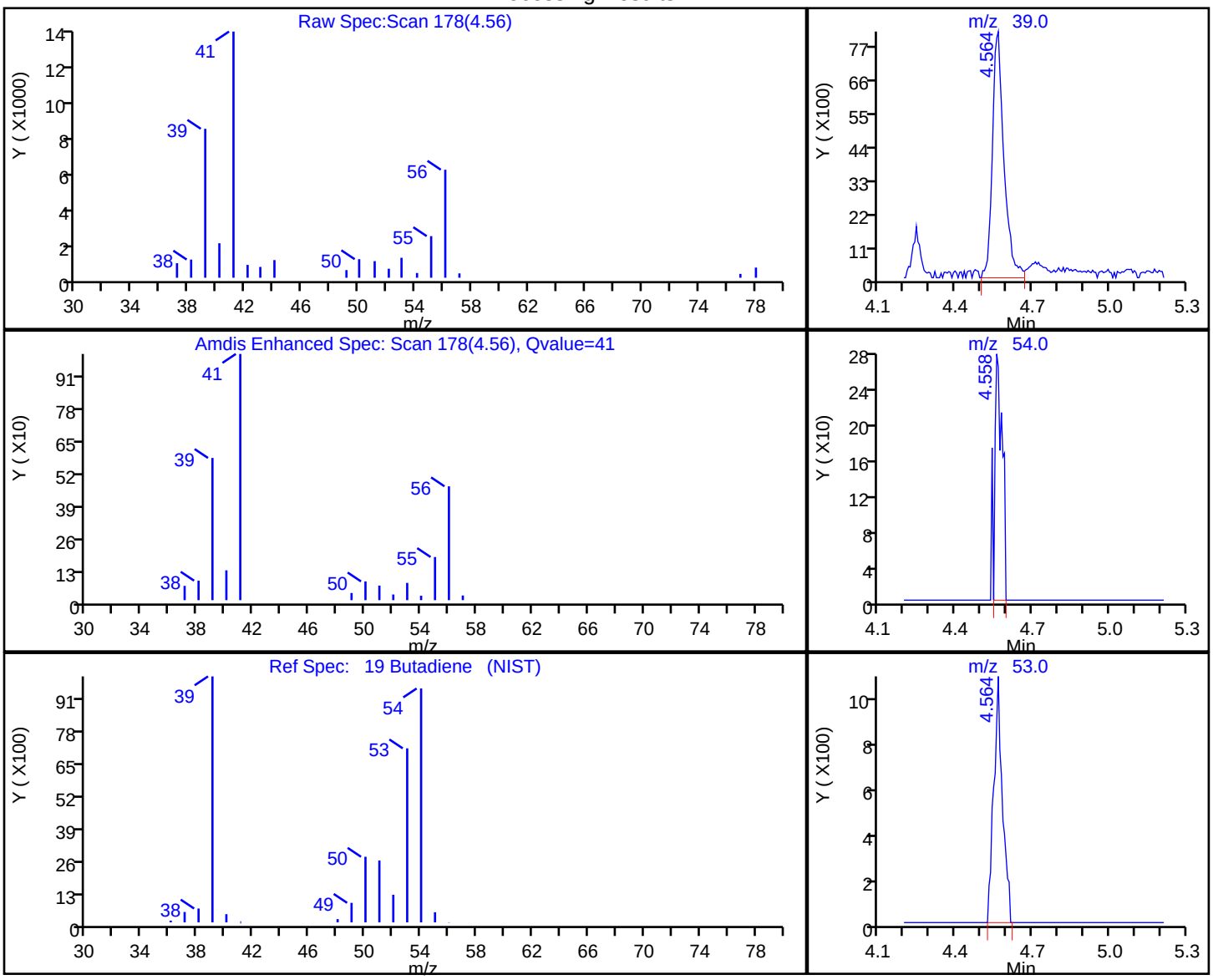
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D				
Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13		
Client ID:	785VMP-4_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

19 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
4.56	39.00	25747	4.728541
4.56	54.00	516	
4.56	53.00	2587	

Reviewer: phanthasena, 06-Apr-2018 12:50:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

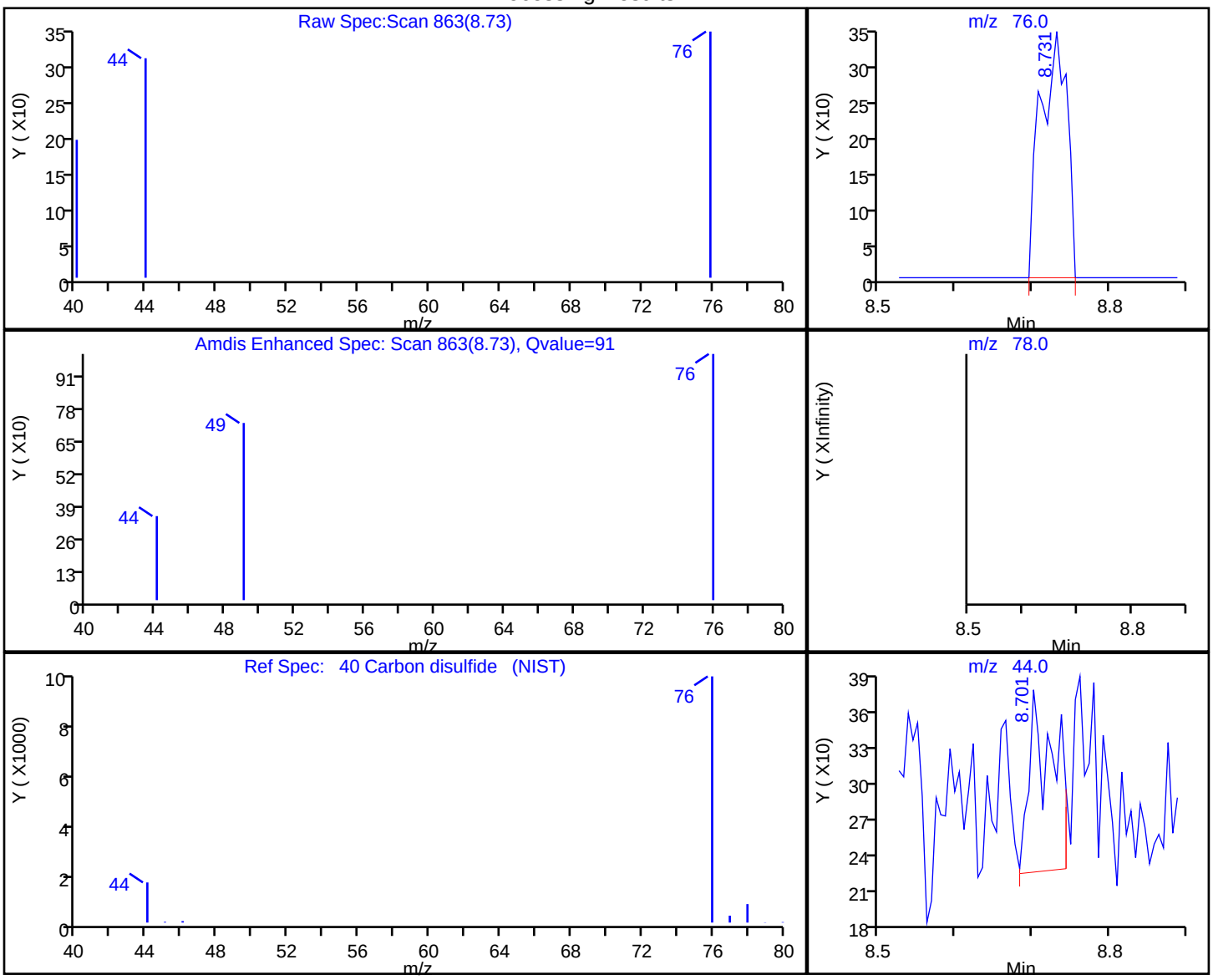
TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040513.D

Injection Date:	05-Apr-2018 22:08:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-13	Lab Sample ID:	320-37345-13		
Client ID:	785VMP-4_0318				
Operator ID:	LHS	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.73	76.00	811	0.061062
8.71	78.00	0	
8.70	44.00	328	

Reviewer: phanthasena, 06-Apr-2018 12:50:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-5_0318 | Lab Sample ID: 320-37345-14

Matrix: Air | Lab File ID: MS7040524.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 17:05

Sample wt/vol: 394(mL) | Date Analyzed: 04/06/2018 08:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	U M	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	8.0	J	12	0.95	0.42
71-43-2	Benzene	0.47	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	0.89	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785VMP-5_0318 | Lab Sample ID: 320-37345-14

Matrix: Air | Lab File ID: MS7040524.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 17:05

Sample wt/vol: 394(mL) | Date Analyzed: 04/06/2018 08:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.6	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.27	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	1.2	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.46	J M	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.59	J	1.7	0.85	0.25
127-18-4	Tetrachloroethene	0.35	J	2.7	1.4	0.35
108-88-3	Toluene	0.72	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	0.97	J	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.6	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D
Lims ID: 320-37345-A-14
Client ID: 785VMP-5_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 08:21:30 ALS Bottle#: 8 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-14
Misc. Info.: 394 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 09:04:18 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: leeh Date: 06-Apr-2018 09:04:18

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.248	12.223	0.025	92	28306	4.00	
*	2 1,4-Difluorobenzene	114	14.414	14.383	0.031	96	121872	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.081	21.063	0.018	91	121022	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.452	13.456	0.024	97	50957	4.43	
$	5 Toluene-d8 (Surr)	100	17.814	17.821	0.030	97	80346	3.78	
$	6 4-Bromofluorobenzene (Surr	95	23.630	23.626	0.024	85	85045	3.78	
	13 Dichlorodifluoromethane	85	3.925	3.915	0.018	93	3702	0.3244	
	16 Chloromethane	50	4.382	4.366	0.025	95	2649	0.4331	
	26 Trichlorofluoromethane	101	6.408	6.402	0.019	94	4576	0.2929	
	32 Acetone	43	7.350	7.316	0.048	99	44943	3.38	
	39 Methylene Chloride	49	8.695	8.676	0.037	92	3643	0.3357	
	59 Carbon tetrachloride	117	13.495	13.511	0.012	52	1379	0.0801	
	63 Benzene	78	13.781	13.786	0.025	92	3382	0.1480	
	65 Trichloroethene	130	15.186	15.182	0.036	88	1985	0.1809	
	75 Toluene	91	17.991	17.998	0.031	93	6136	0.1908	
	80 Tetrachloroethene	166	19.499	19.486	0.030	78	807	0.0513	
	86 Ethylbenzene	91	21.355	21.331	0.043	92	2680	0.0633	
	87 m-Xylene & p-Xylene	91	21.525	21.525	0.030	31	3499	0.1068	a
	88 o-Xylene	91	22.426	22.421	0.025	36	1375	0.0422	
	89 Styrene	104	22.456	22.451	0.024	93	3467	0.1379	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

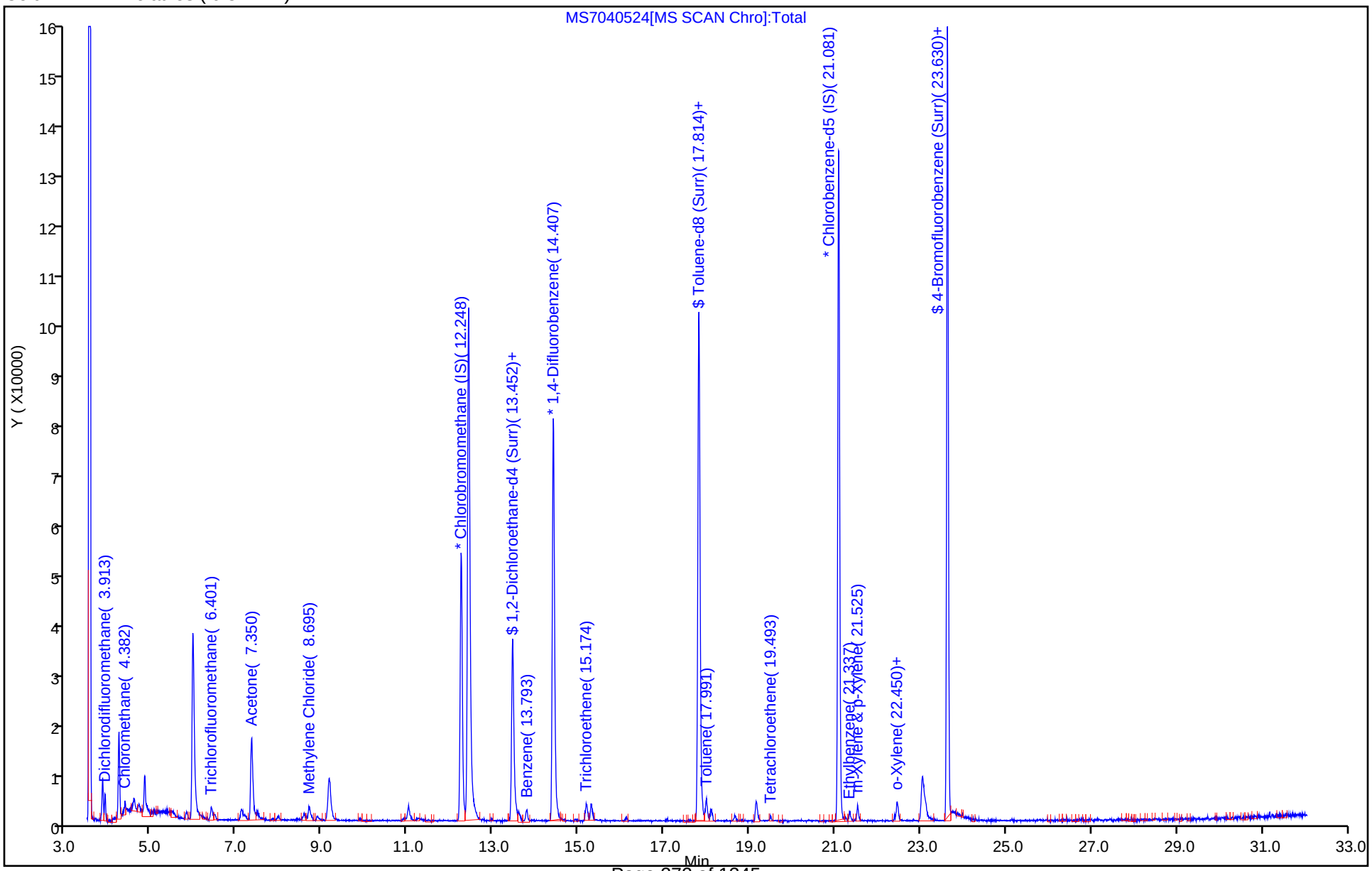
Report Date: 06-Apr-2018 09:04:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14	Worklist Smp#:	25
Client ID:	785VMP-5_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D
Lims ID: 320-37345-A-14
Client ID: 785VMP-5_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 08:21:30 ALS Bottle#: 8 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-14
Misc. Info.: 394 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 09:04:18 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: leeh Date: 06-Apr-2018 09:04:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.43	110.83
$ 5 Toluene-d8 (Surr)	4.00	3.78	94.62
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.78	94.57

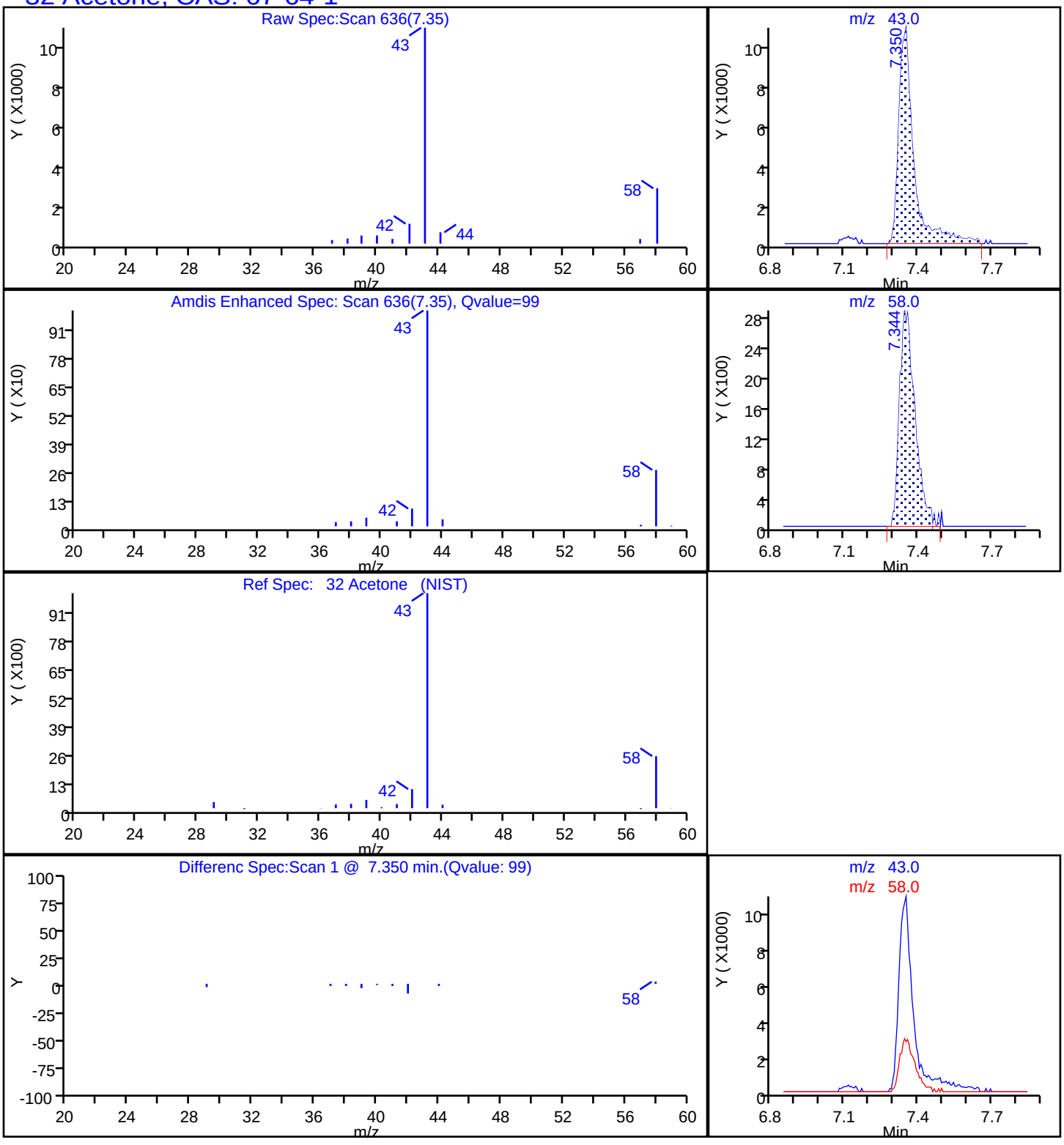
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1



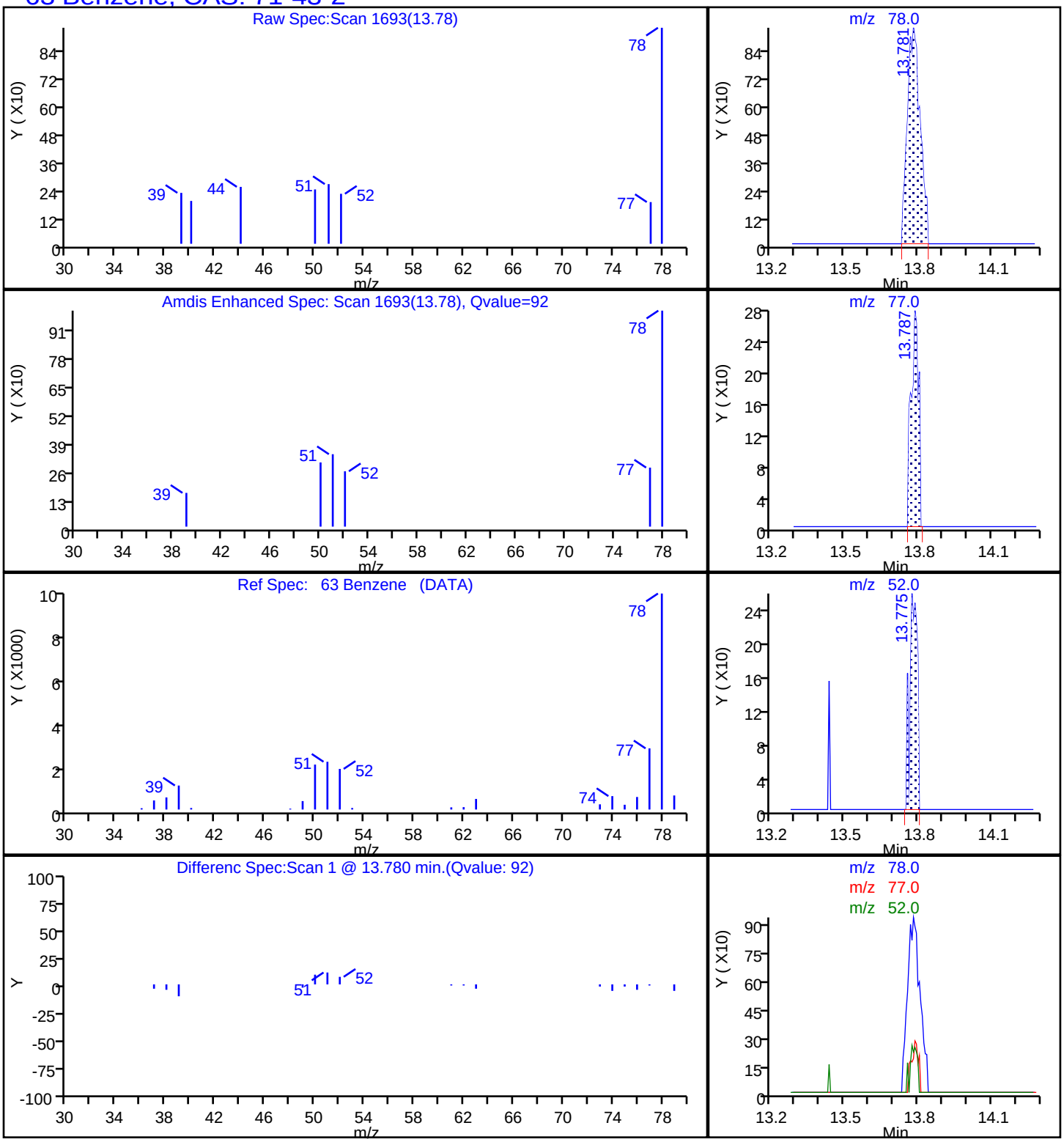
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

63 Benzene, CAS: 71-43-2



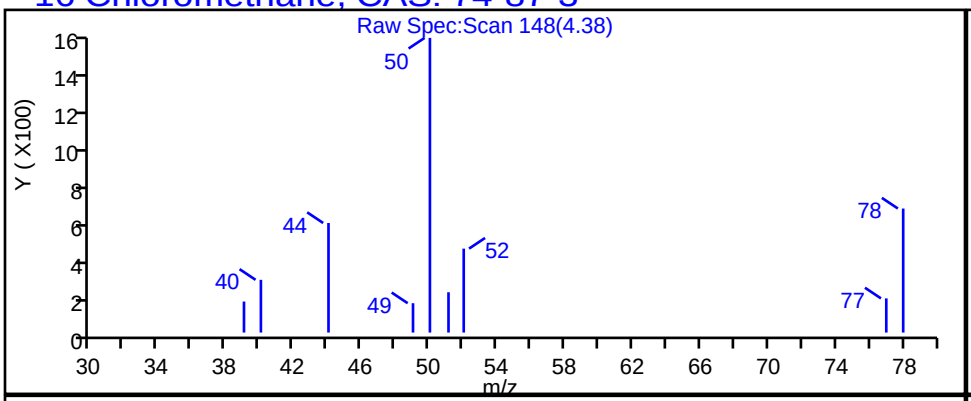
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

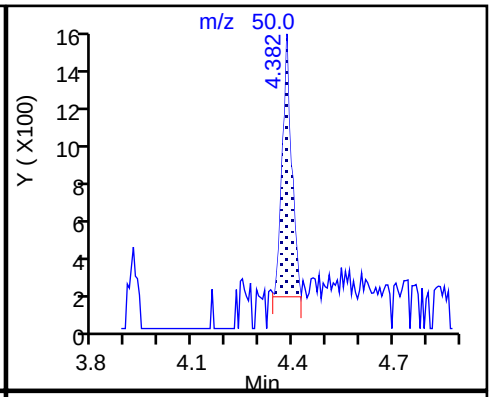
TestAmerica Sacramento

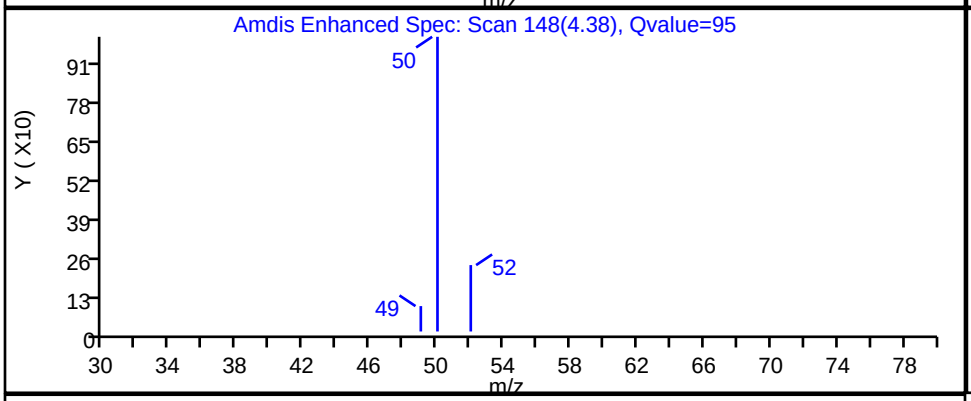
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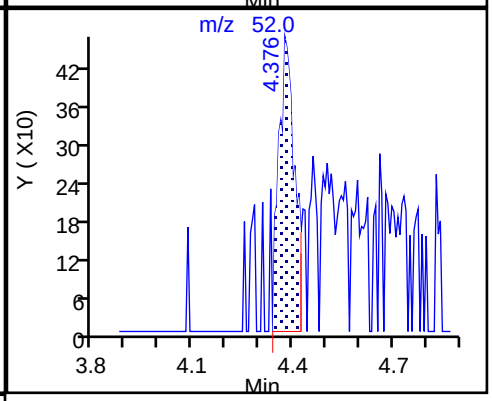
Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14
Client ID:	785VMP-5_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

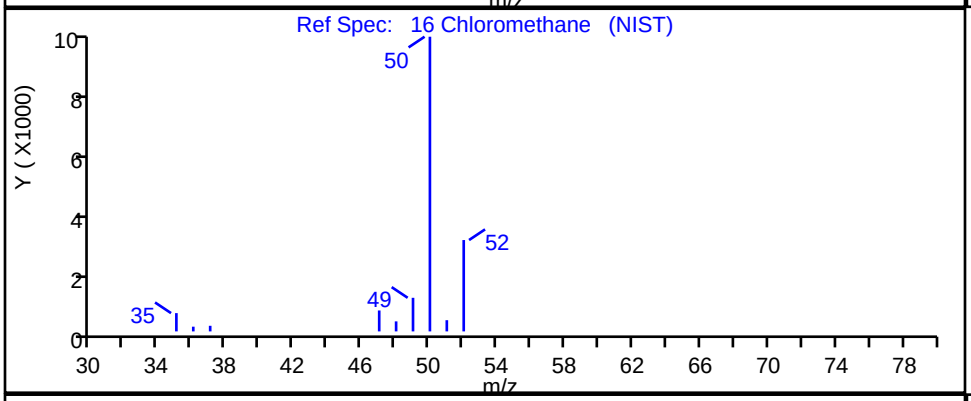
16 Chloromethane, CAS: 74-87-3

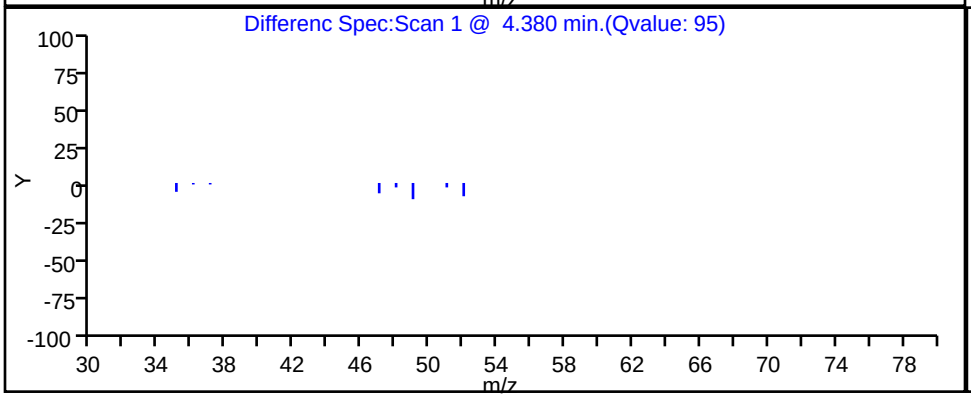


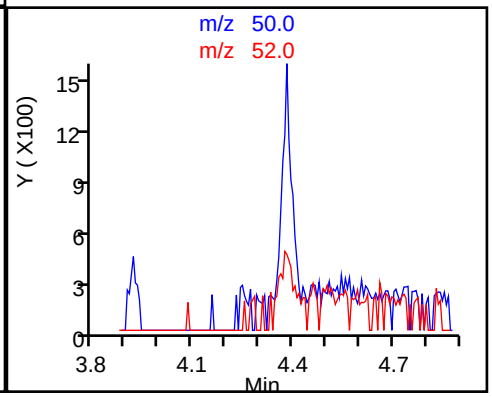












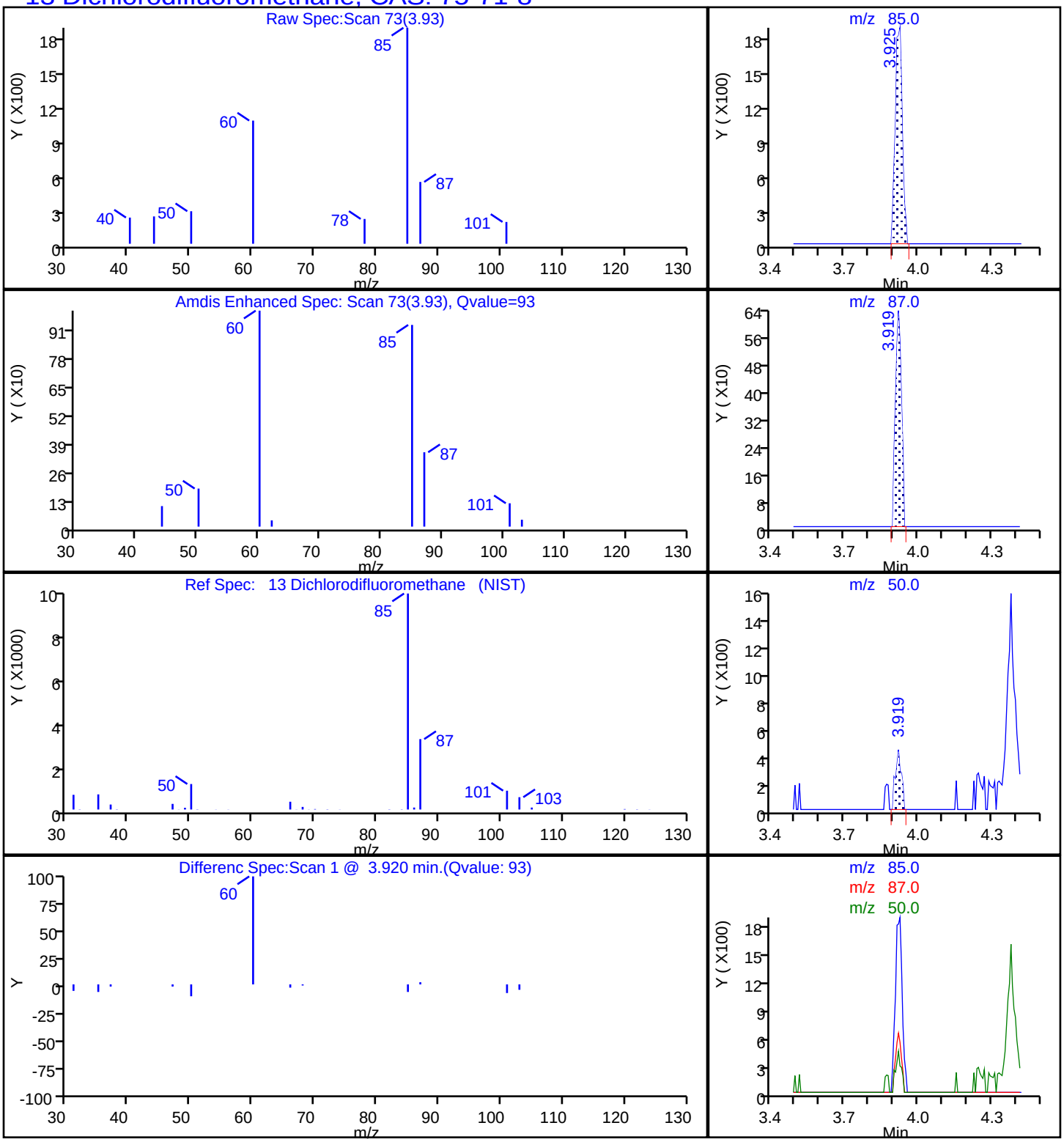
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8



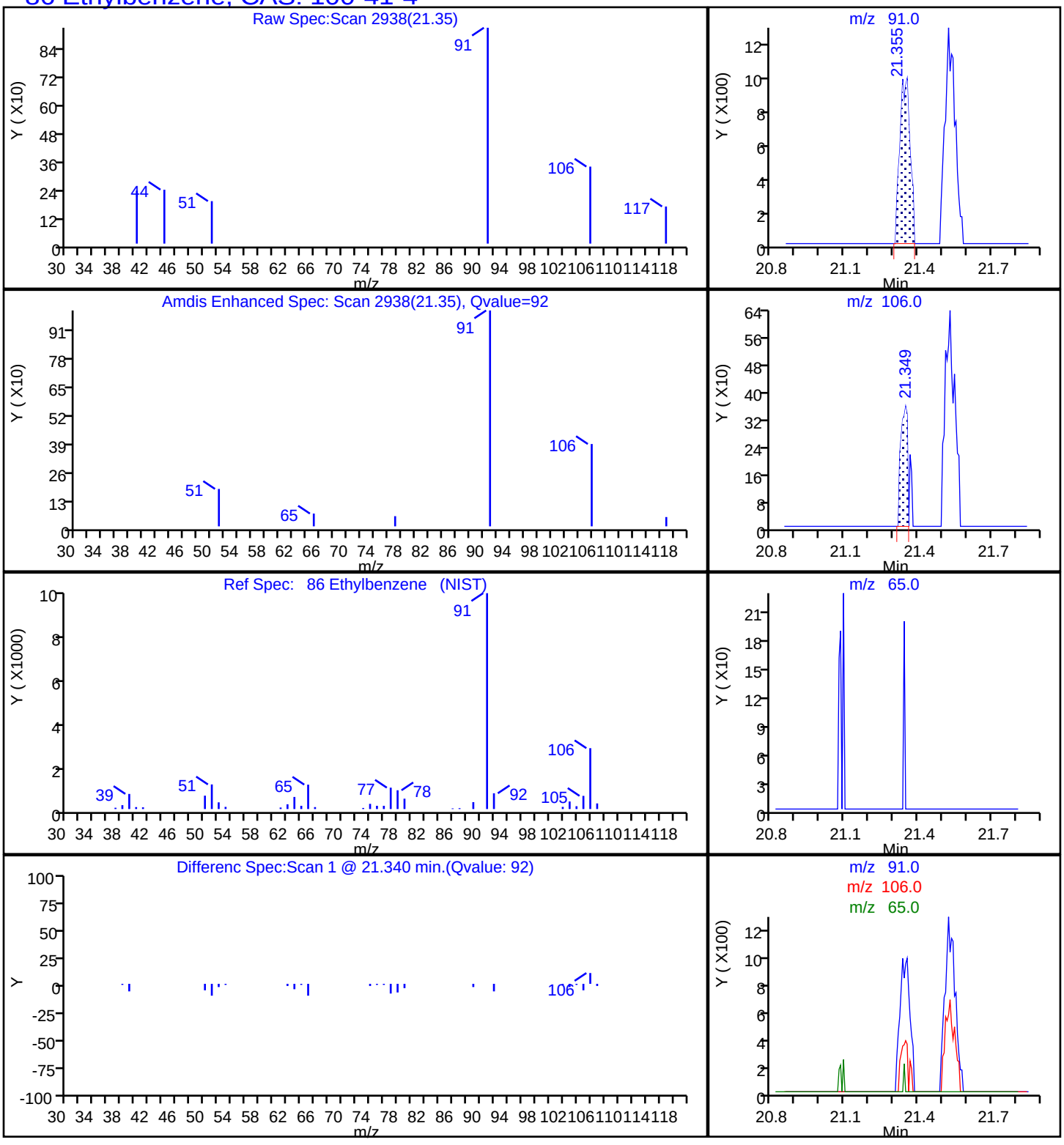
Report Date: 06-Apr-2018 09:04:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14
Client ID:	785VMP-5_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



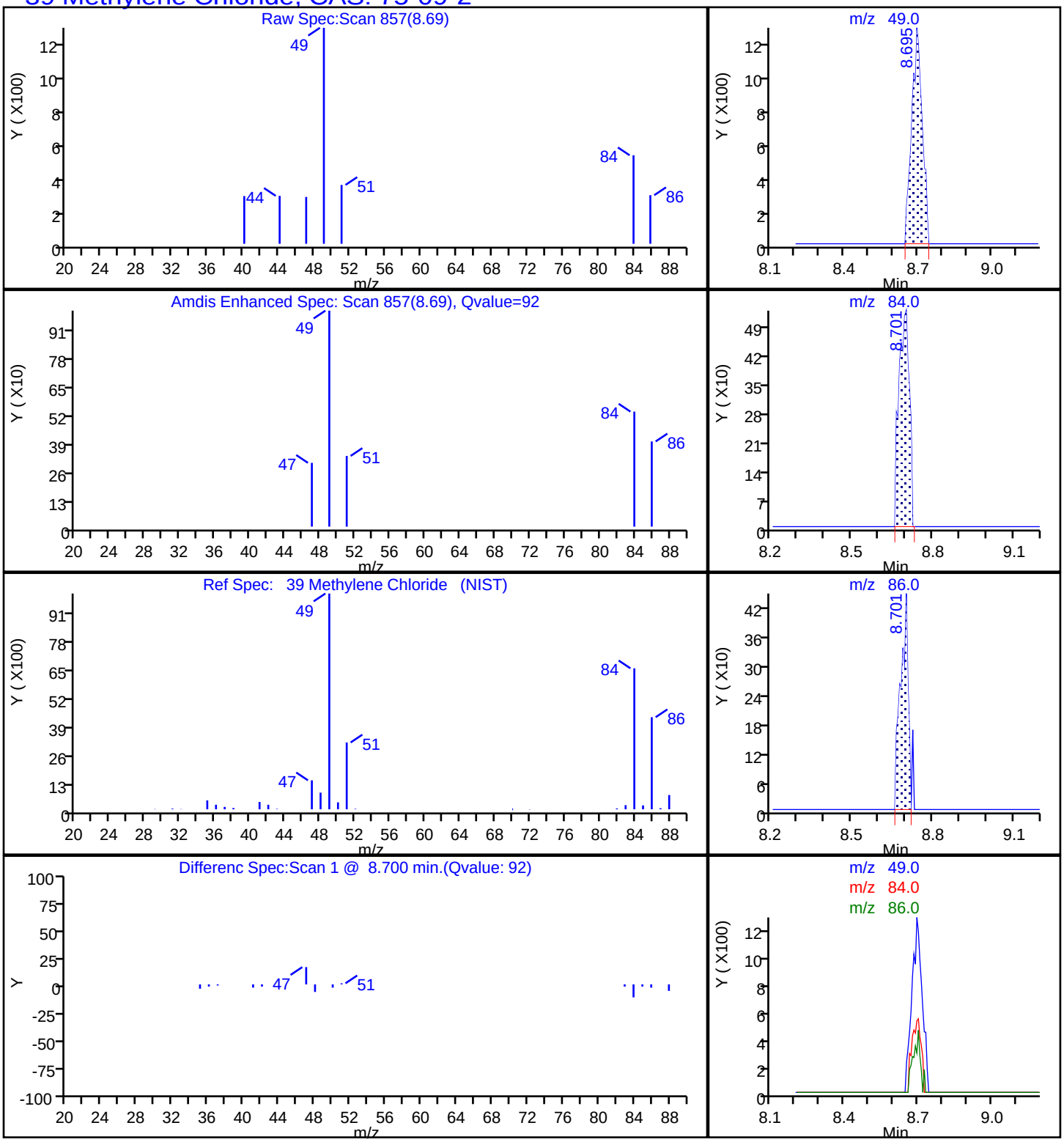
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

39 Methylene Chloride, CAS: 75-09-2



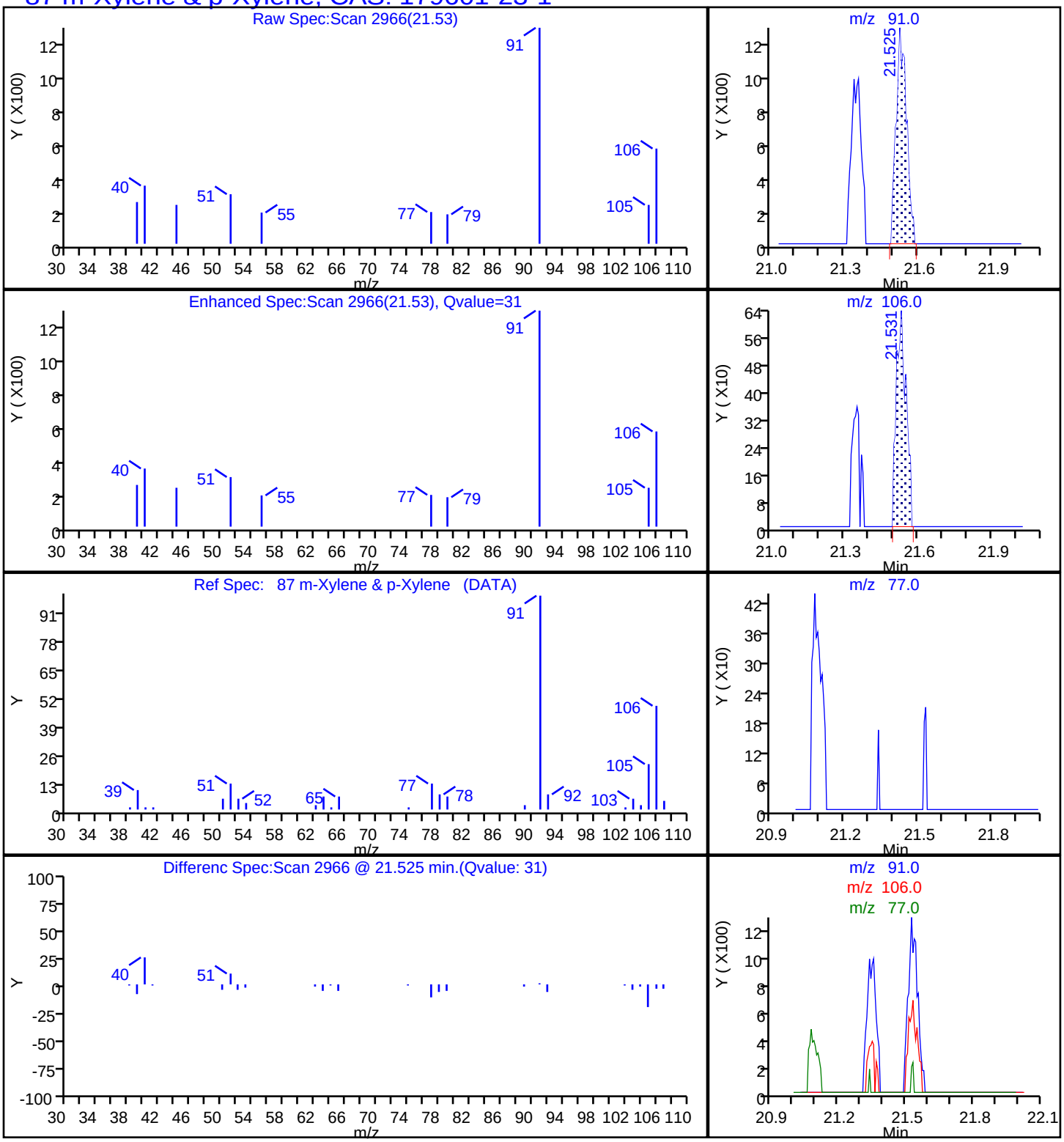
Report Date: 06-Apr-2018 09:04:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1



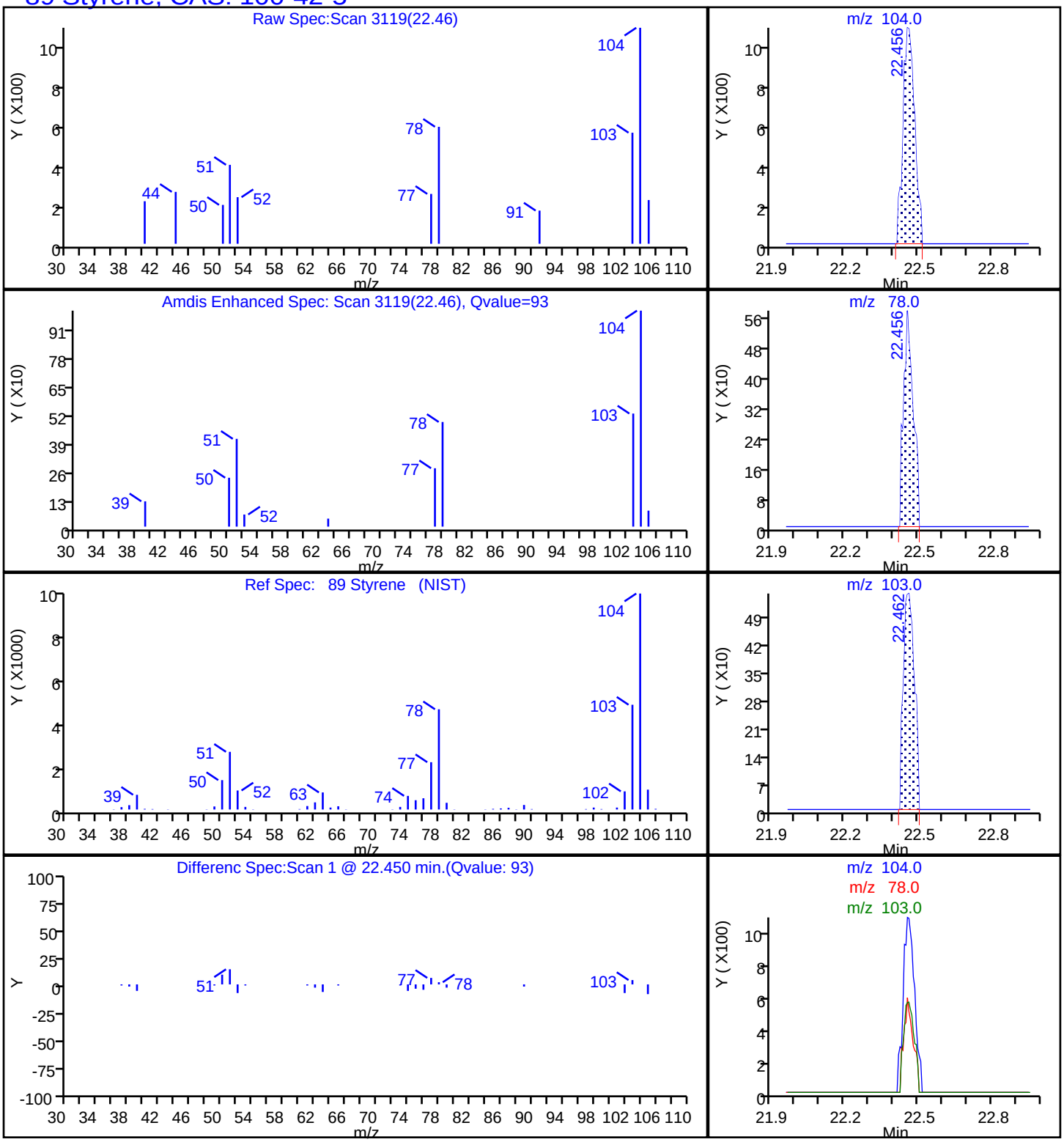
Report Date: 06-Apr-2018 09:04:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14
Client ID:	785VMP-5_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

89 Styrene, CAS: 100-42-5



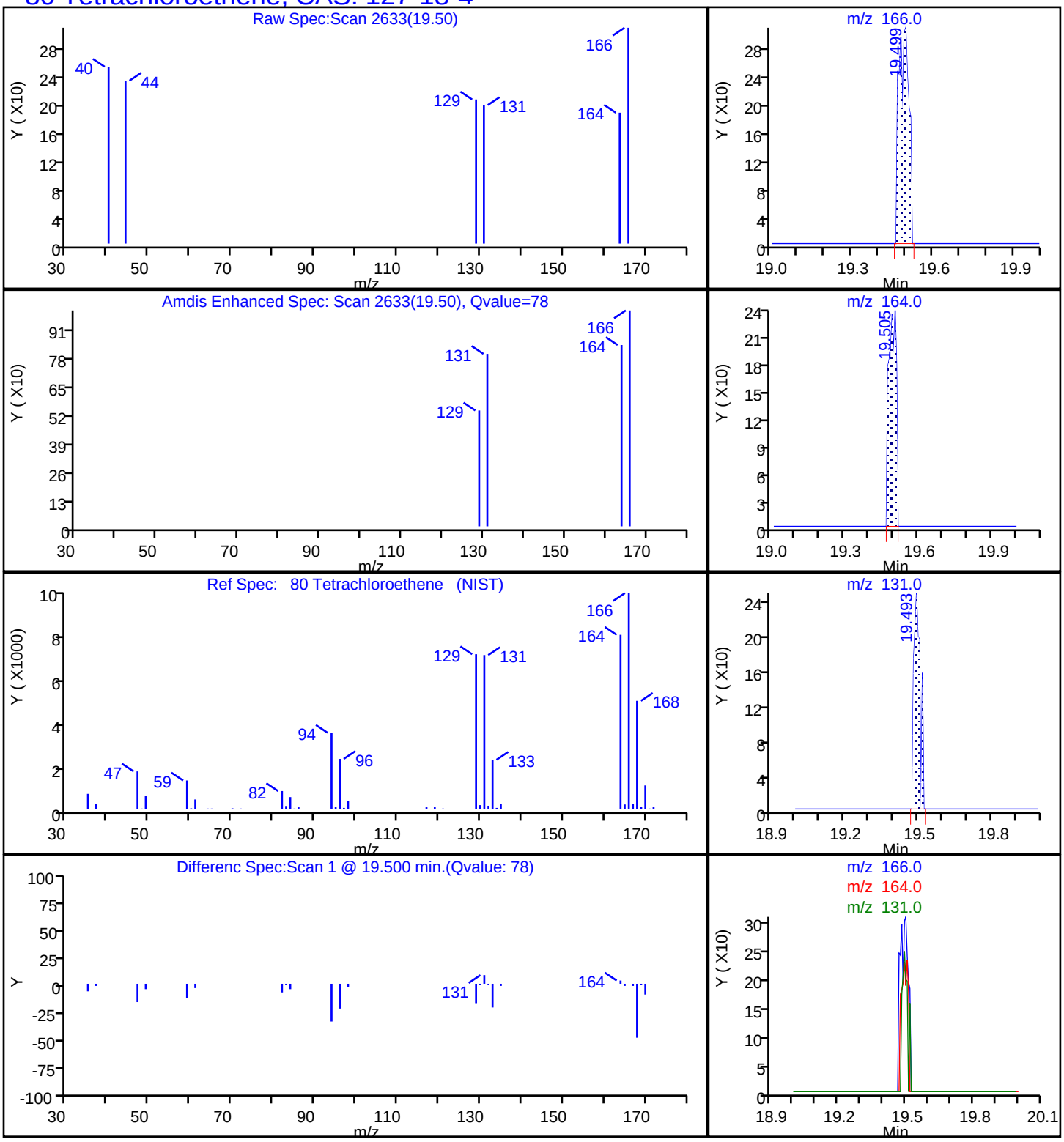
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14
Client ID:	785VMP-5_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



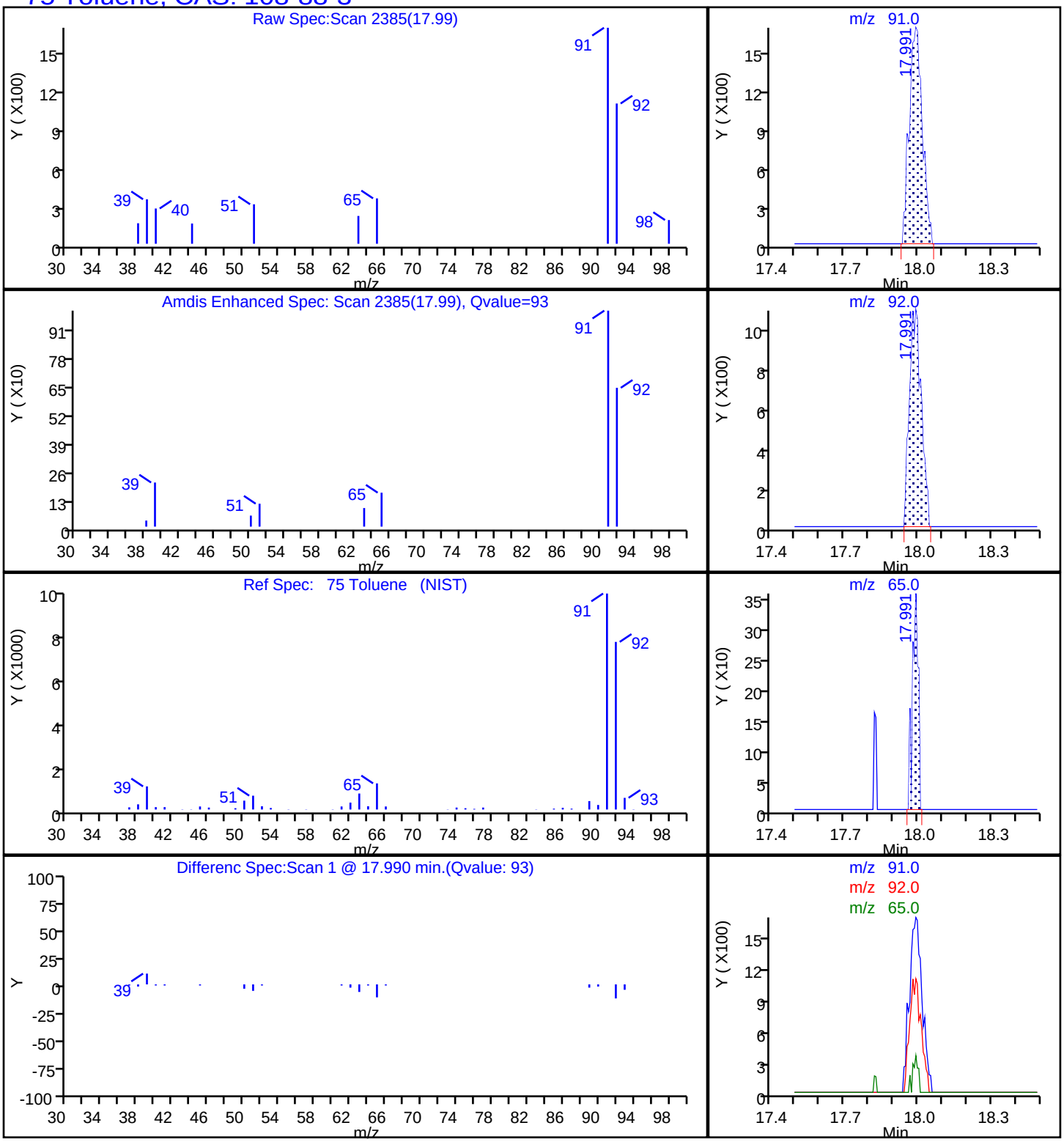
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14
Client ID:	785VMP-5_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



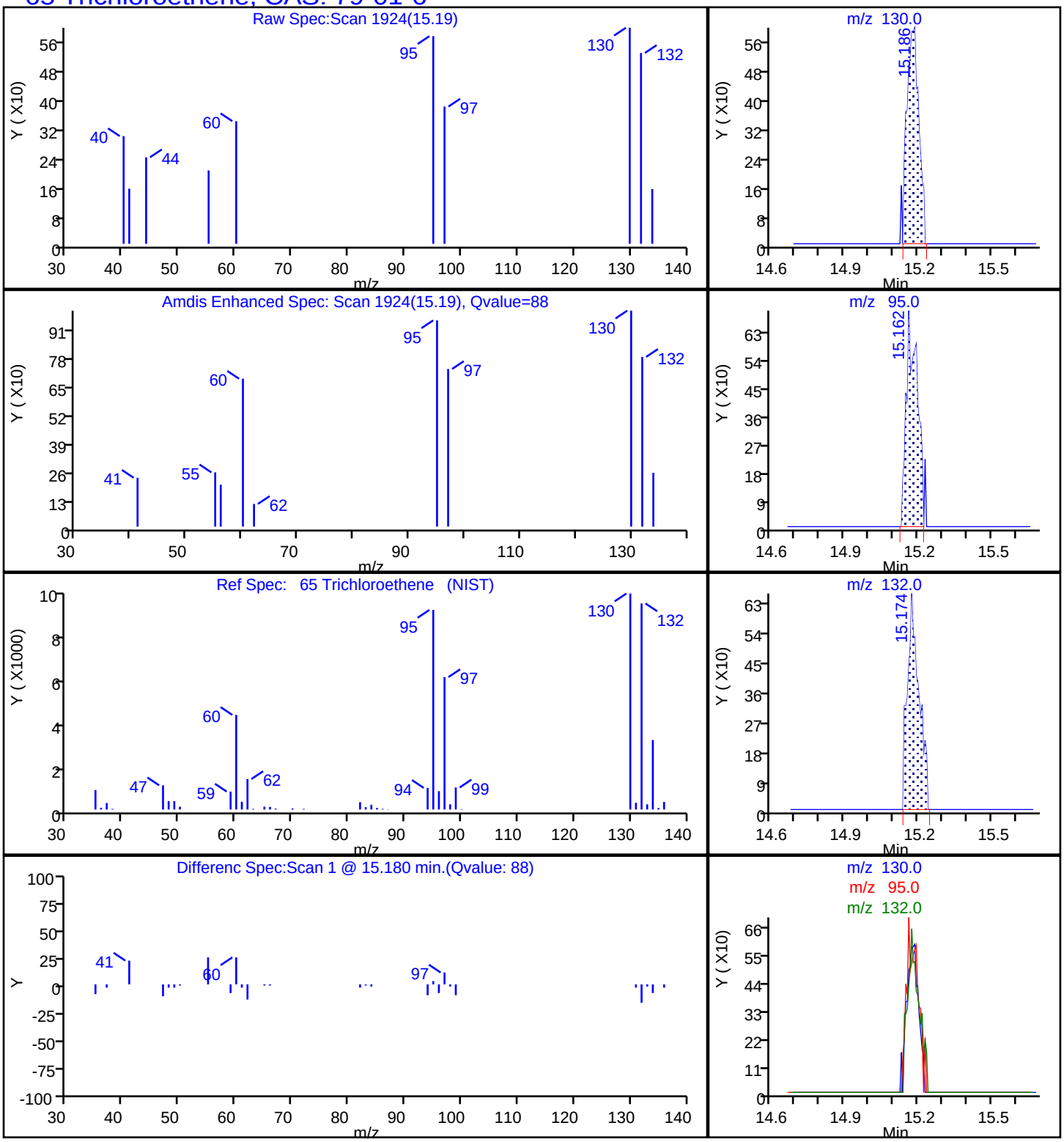
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14
Client ID:	785VMP-5_0318		
Operator ID:	LHS	ALS Bottle#:	8 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



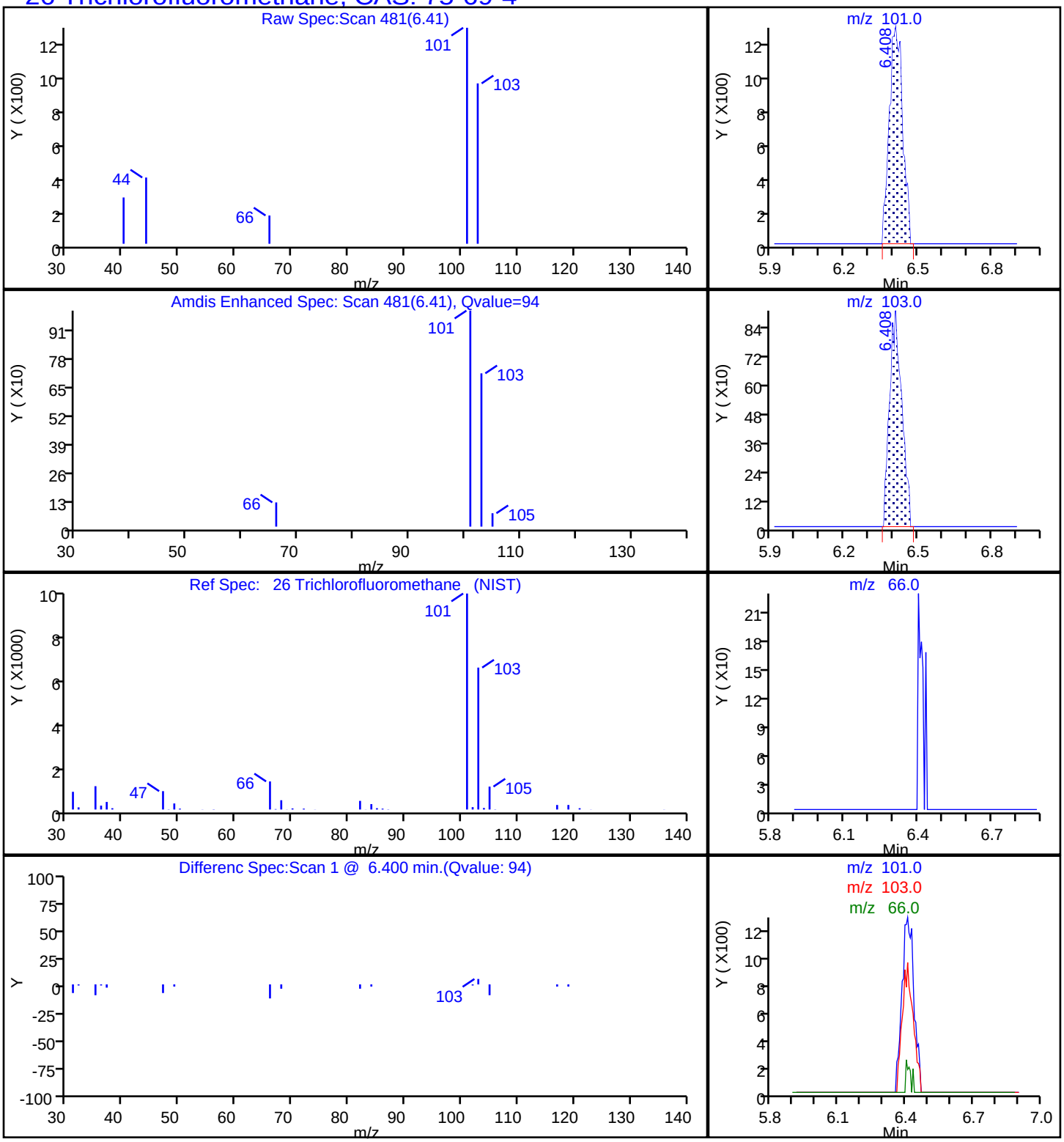
Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D

Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

26 Trichlorofluoromethane, CAS: 75-69-4



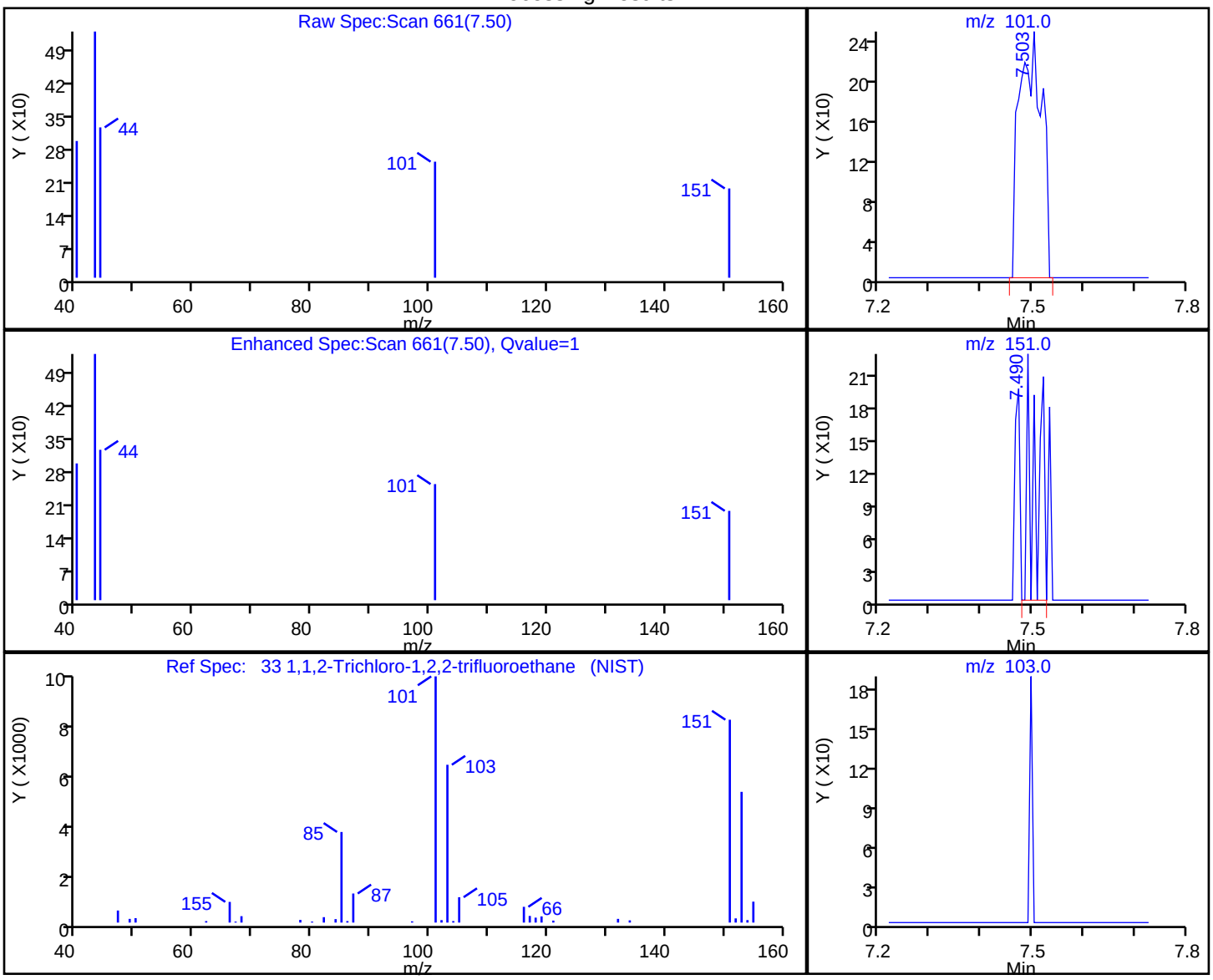
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D				
Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
7.50	101.00	756	0.058878
7.49	151.00	283	
7.47	103.00	0	

Reviewer: leeh, 06-Apr-2018 09:04:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 06-Apr-2018 09:04:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

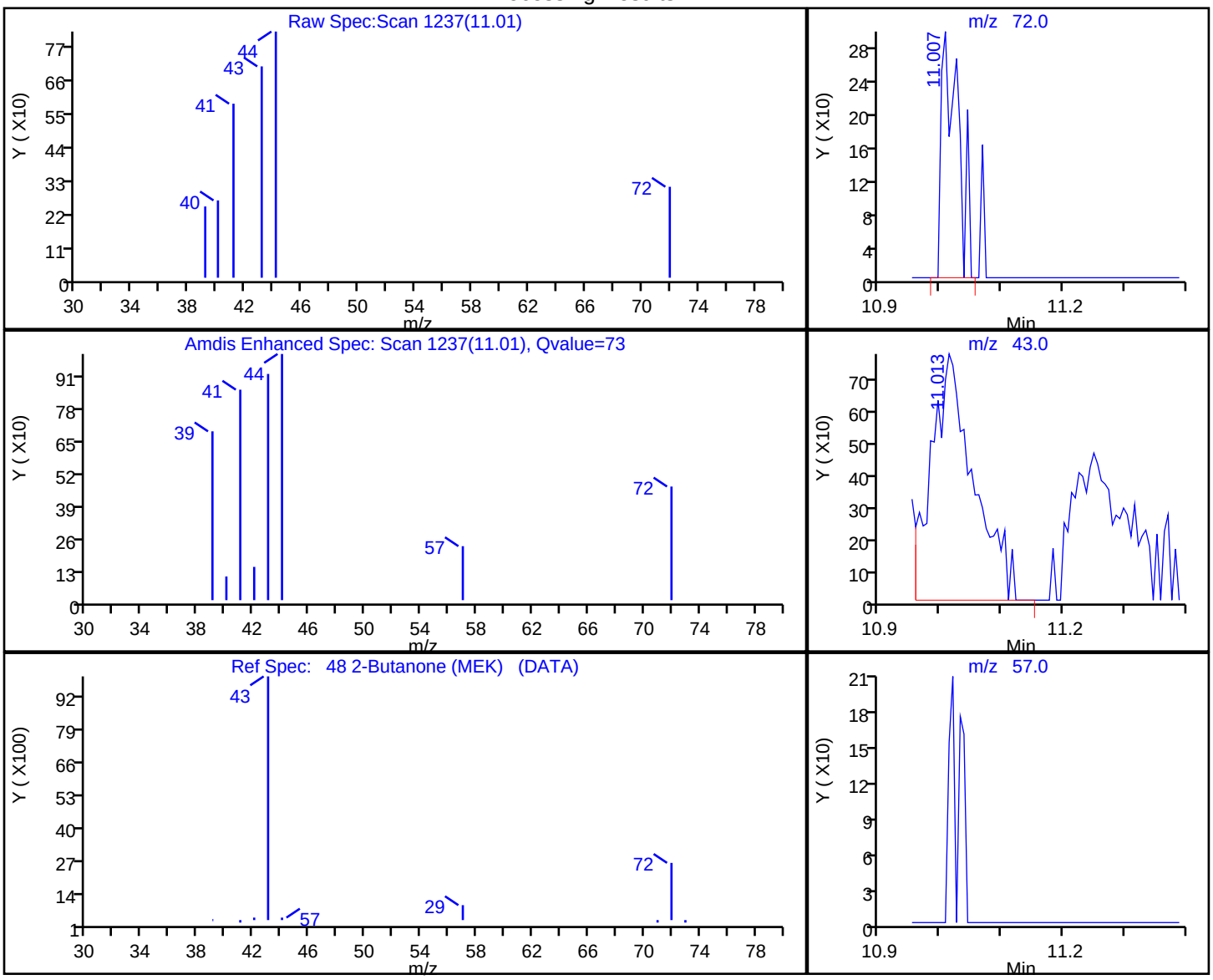
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D				
Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

48 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
11.01	72.00	580	0.160331
11.01	43.00	3742	
11.17	57.00	0	

Reviewer: leeh, 06-Apr-2018 09:04:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

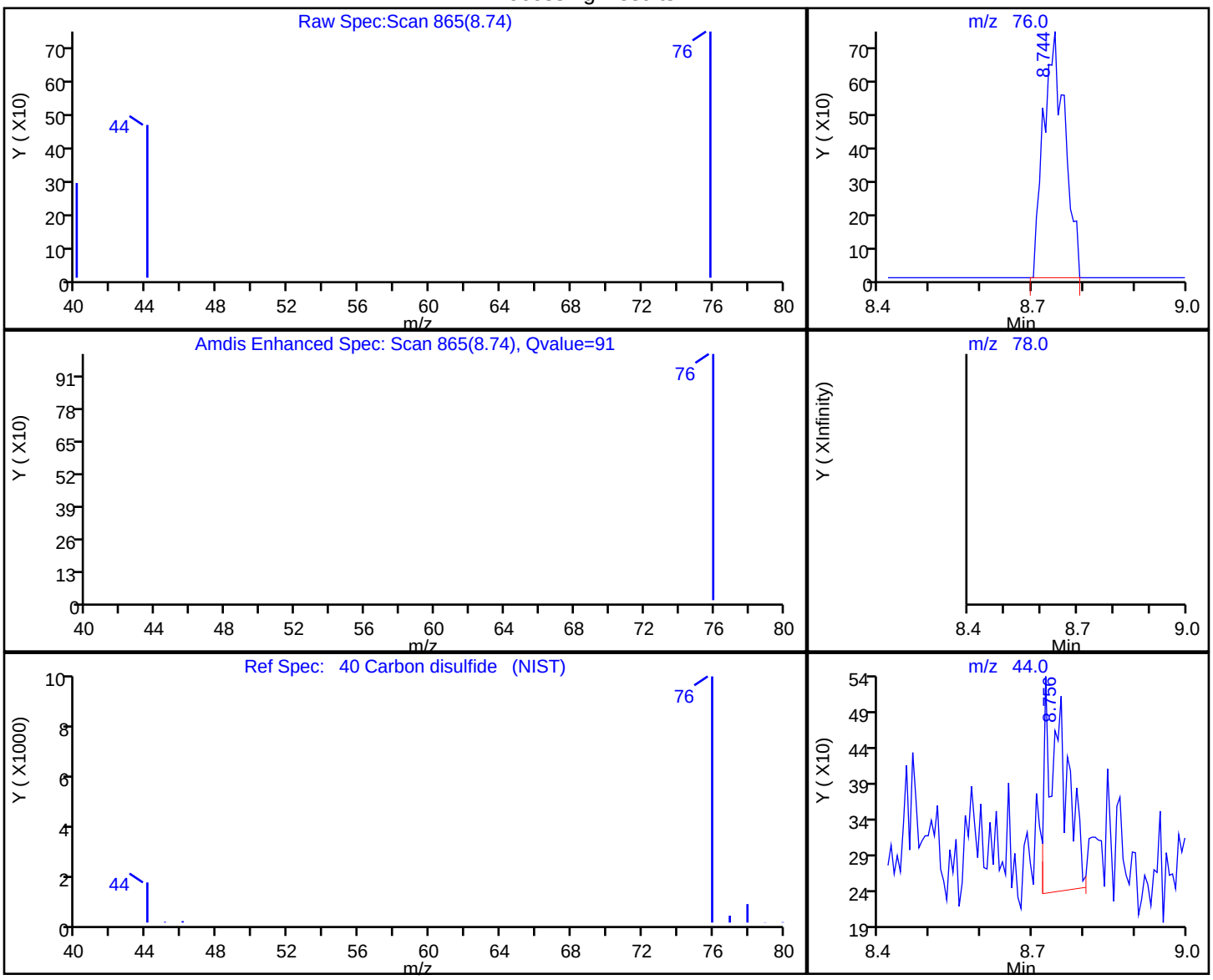
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D				
Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.74	76.00	2178	0.163945
8.71	78.00	0	
8.76	44.00	782	

Reviewer: leeh, 06-Apr-2018 09:04:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

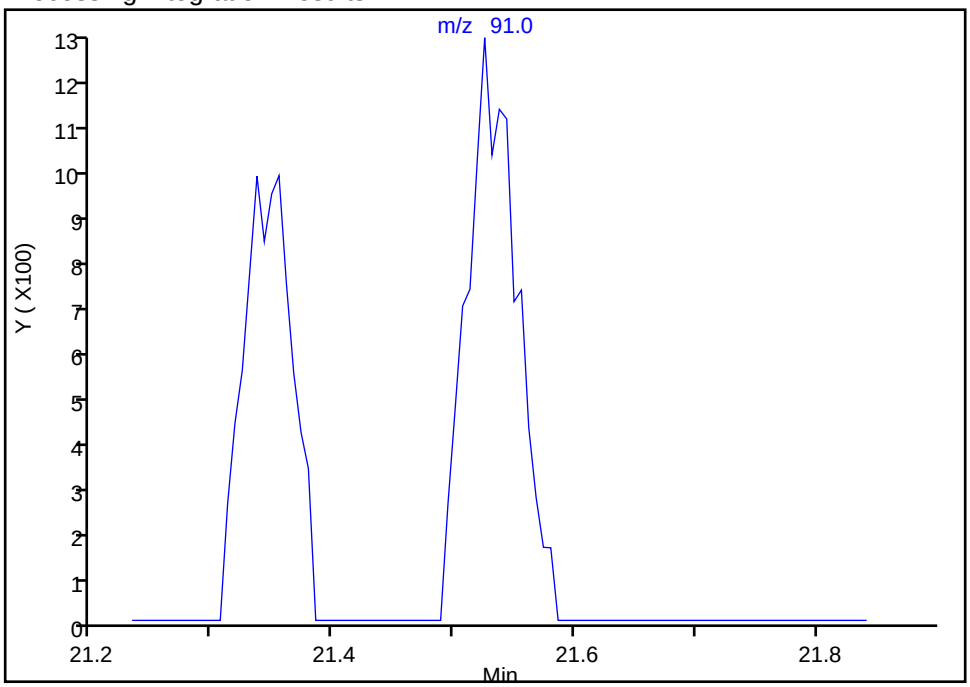
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040524.D				
Injection Date:	06-Apr-2018 08:21:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-14	Lab Sample ID:	320-37345-14		
Client ID:	785VMP-5_0318				
Operator ID:	LHS	ALS Bottle#:	8	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

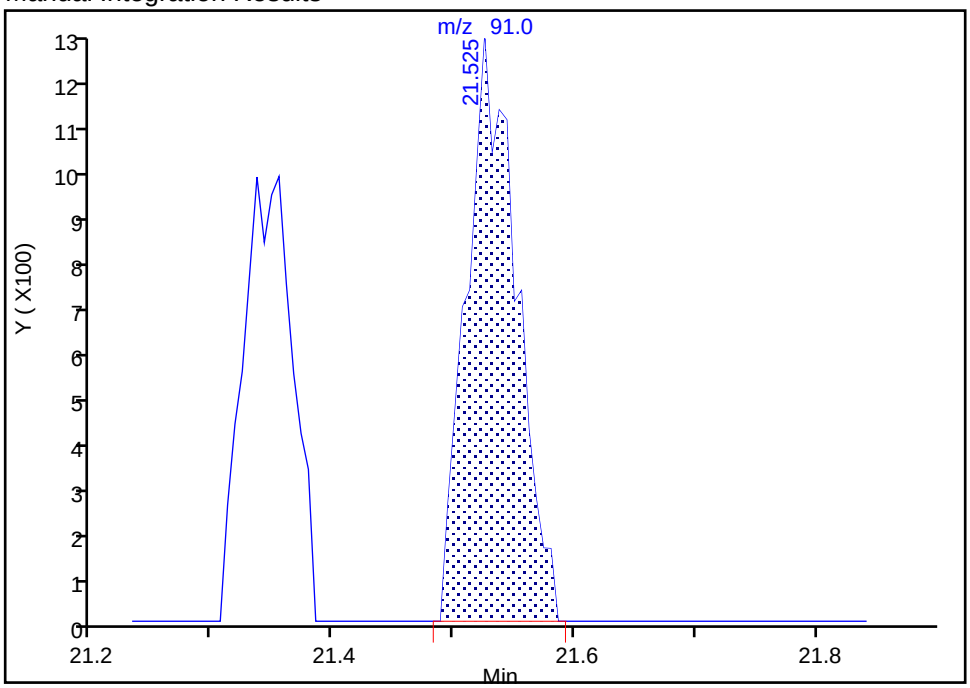
Not Detected
Expected RT: 21.49

Processing Integration Results



Manual Integration Results

RT: 21.53
Area: 3499
Amount: 0.106817
Amount Units: ppb v/v



Reviewer: leeh, 06-Apr-2018 09:03:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786VMP-1_0318 | Lab Sample ID: 320-37345-16

Matrix: Air | Lab File ID: MS7040515.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:30

Sample wt/vol: 398(mL) | Date Analyzed: 04/06/2018 00:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	2.1		1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	49		3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	29		3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	3.3		2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	19	M	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	4.5		3.3	1.6	0.55
67-64-1	Acetone	41		12	0.95	0.42
71-43-2	Benzene	3.8		1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U M	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	4.7		1.8	0.88	0.34
75-15-0	Carbon disulfide	4.1		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U M	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.85	J	1.5	0.98	0.46
74-87-3	Chloromethane	2.2		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786VMP-1_0318 | Lab Sample ID: 320-37345-16

Matrix: Air | Lab File ID: MS7040515.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:30

Sample wt/vol: 398(mL) | Date Analyzed: 04/06/2018 00:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.7	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	32		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U M	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.56	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	160		3.5	0.87	0.43
91-20-3	Naphthalene	9.1	J	10	6.3	2.9
95-47-6	o-Xylene	89		1.7	0.87	0.23
100-42-5	Styrene	0.85	U M	1.7	0.85	0.25
127-18-4	Tetrachloroethene	5.3		2.7	1.4	0.35
108-88-3	Toluene	8.2		1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U M	1.8	0.91	0.40
79-01-6	Trichloroethene	89		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	2.1	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
460-00-4	4-Bromofluorobenzene (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D
Lims ID: 320-37345-A-16
Client ID: 786VMP-1_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 00:01:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-16
Misc. Info.: 398 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 14:54:04 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 14:54:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.242	12.223	0.019	92	25959	4.00	
*	2 1,4-Difluorobenzene	114	14.395	14.383	0.012	96	120491	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.063	21.063	0.000	92	129252	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.446	13.439	0.018	96	49909	4.39	
$	5 Toluene-d8 (Surr)	100	17.790	17.799	0.006	97	83453	3.98	
$	6 4-Bromofluorobenzene (Surr	95	23.612	23.606	0.006	95	103661	4.32	
	13 Dichlorodifluoromethane	85	3.901	3.913	-0.006	44	3561	0.3403	
	16 Chloromethane	50	4.357	4.364	0.000	98	6031	1.08	
	19 Butadiene	39	4.704	4.711	0.000	73	10519	2.11	
	26 Trichlorofluoromethane	101	6.383	6.399	-0.006	92	5420	0.3782	
	32 Acetone	43	7.314	7.313	0.012	99	208746	17.1	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.490	7.490	0.018	33	1114	0.0946	M
	39 Methylene Chloride	49	8.683	8.671	0.025	87	1591	0.1598	
	40 Carbon disulfide	76	8.719	8.720	0.012	96	15956	1.31	
	48 2-Butanone (MEK)	72	11.214	11.188	0.043	93	3688	1.11	
	53 Chloroform	83	11.962	11.974	0.006	70	2286	0.1734	
	55 1,1,1-Trichloroethane	97	12.917	12.918	0.018	93	5594	0.3860	
	59 Carbon tetrachloride	117	13.513	13.513	0.030	1	1069	0.0628	a
	63 Benzene	78	13.769	13.768	0.013	96	26923	1.19	
	65 Trichloroethene	130	15.162	15.162	0.012	96	179727	16.6	
	71 4-Methyl-2-pentanone (MIBK	43	16.786	16.776	0.024	96	37404	1.10	
	75 Toluene	91	17.966	17.975	0.006	92	69088	2.17	
	80 Tetrachloroethene	166	19.469	19.469	0.000	92	13109	0.7805	
	86 Ethylbenzene	91	21.318	21.312	0.006	98	332457	7.35	
	87 m-Xylene & p-Xylene	91	21.501	21.495	0.006	98	1325928	37.9	
	88 o-Xylene	91	22.401	22.401	0.000	98	716657	20.6	
	102 4-Ethyltoluene	120	24.251	24.251	-0.012	98	58082	3.96	M
	104 1,3,5-Trimethylbenzene	120	24.360	24.360	0.000	92	127496	5.91	
	107 1,2,4-Trimethylbenzene	120	25.151	25.151	0.000	99	196386	10.0	
	121 Naphthalene	128	30.626	30.614	0.012	98	82395	1.74	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

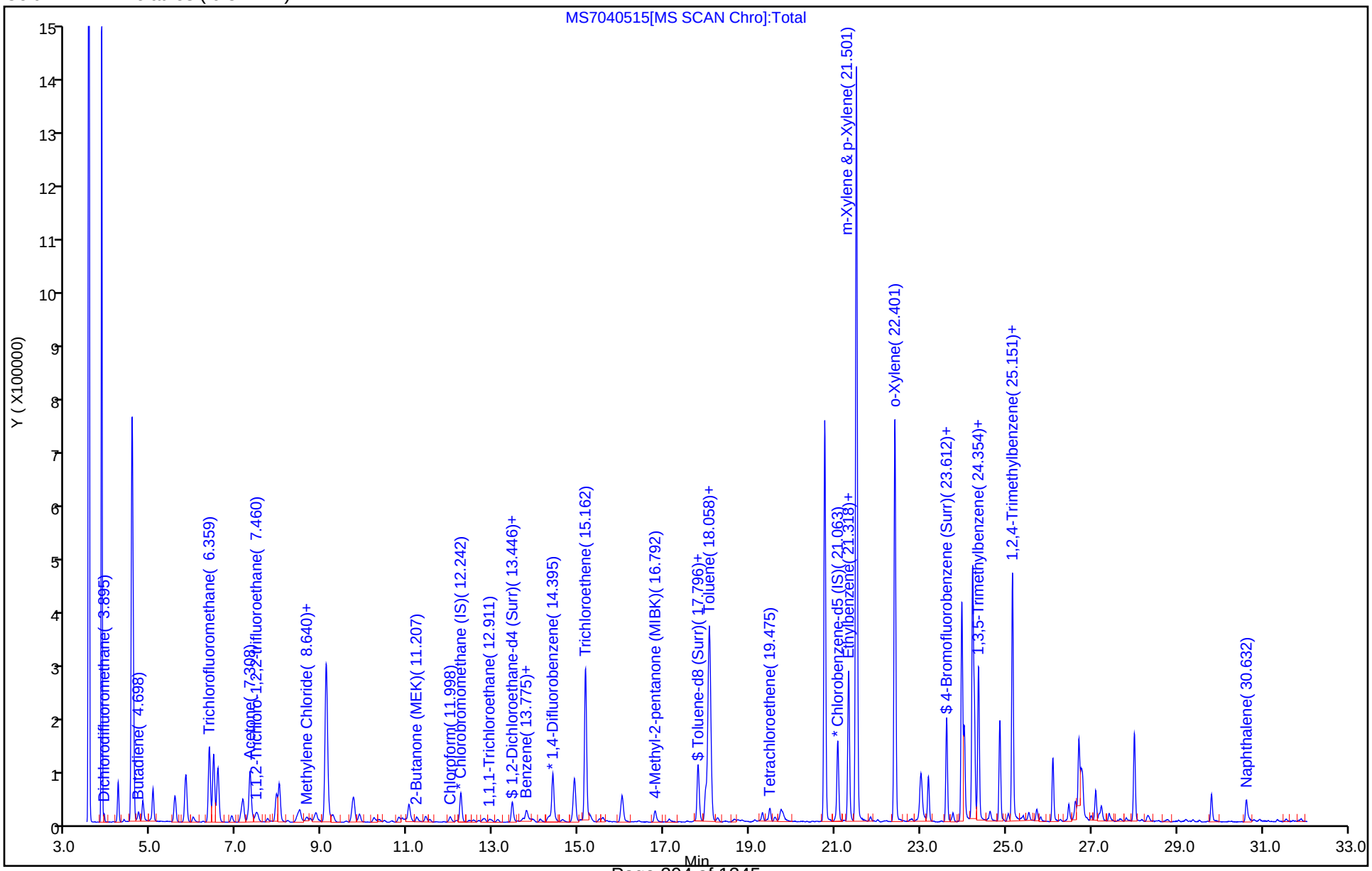
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16	Worklist Smp#:	13
Client ID:	786VMP-1_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D
Lims ID: 320-37345-A-16
Client ID: 786VMP-1_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 00:01:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-16
Misc. Info.: 398 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 14:54:04 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 14:54:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.39	109.80
$ 5 Toluene-d8 (Surr)	4.00	3.98	99.41
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.32	107.94

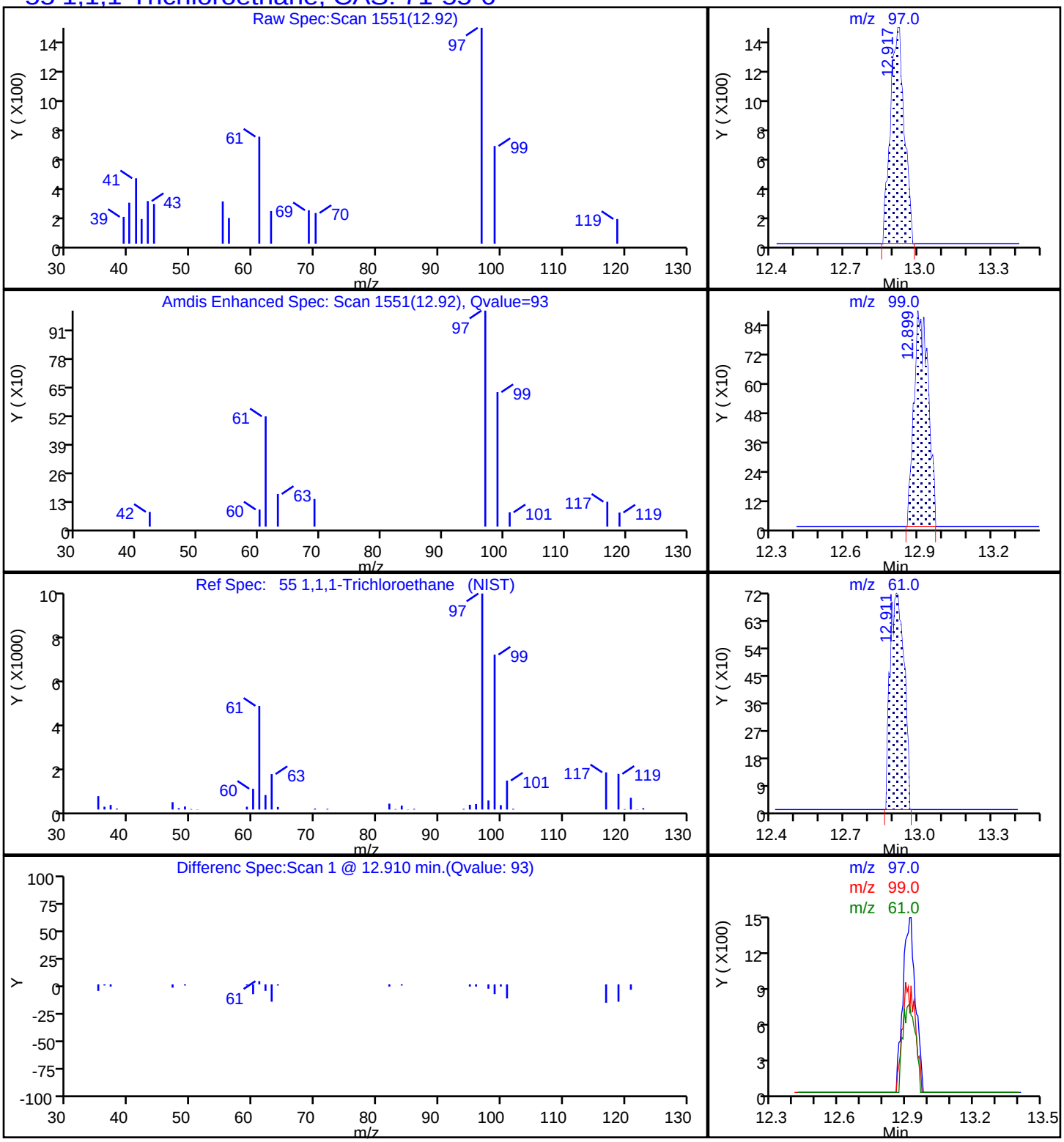
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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



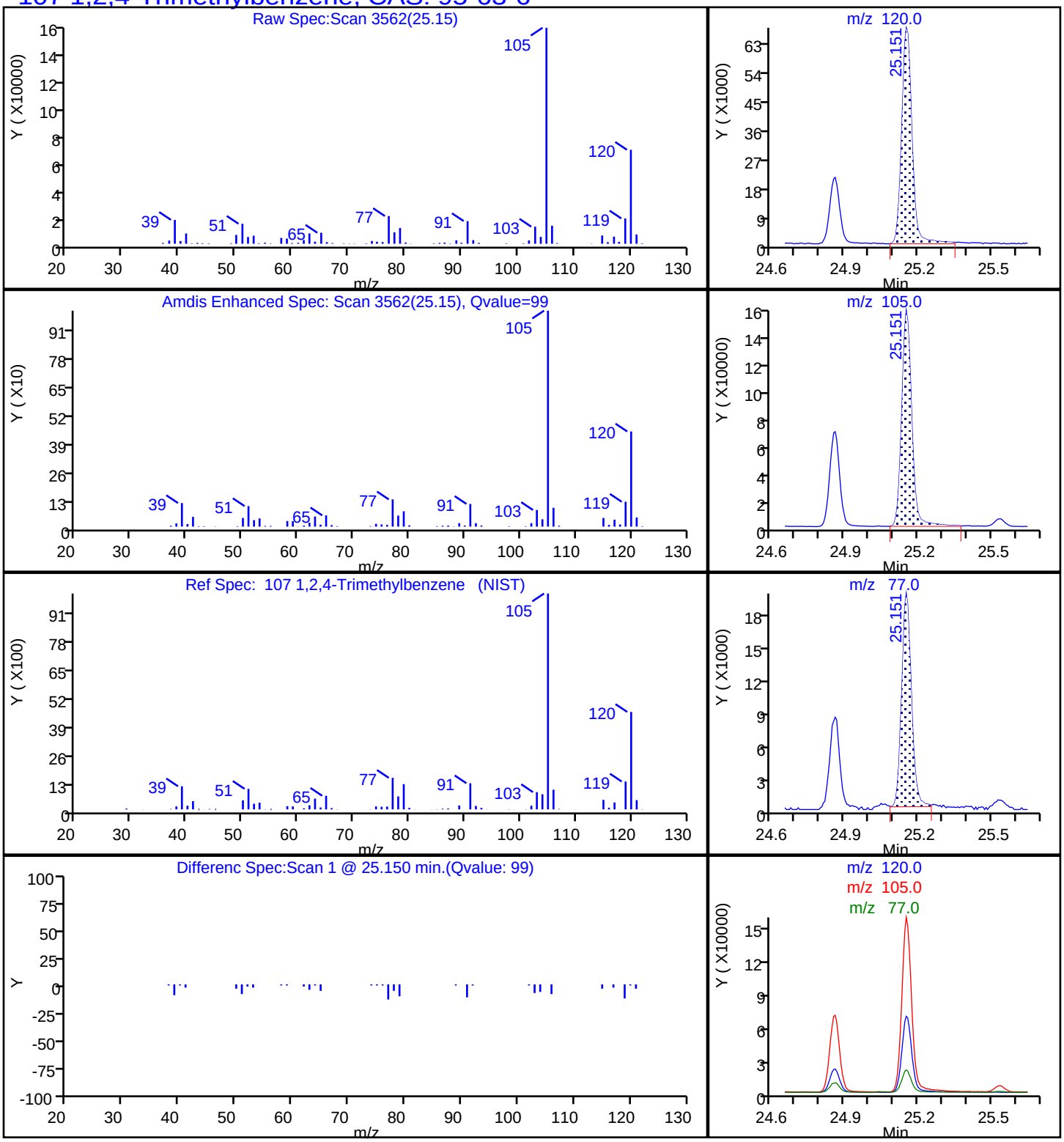
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

107 1,2,4-Trimethylbenzene, CAS: 95-63-6



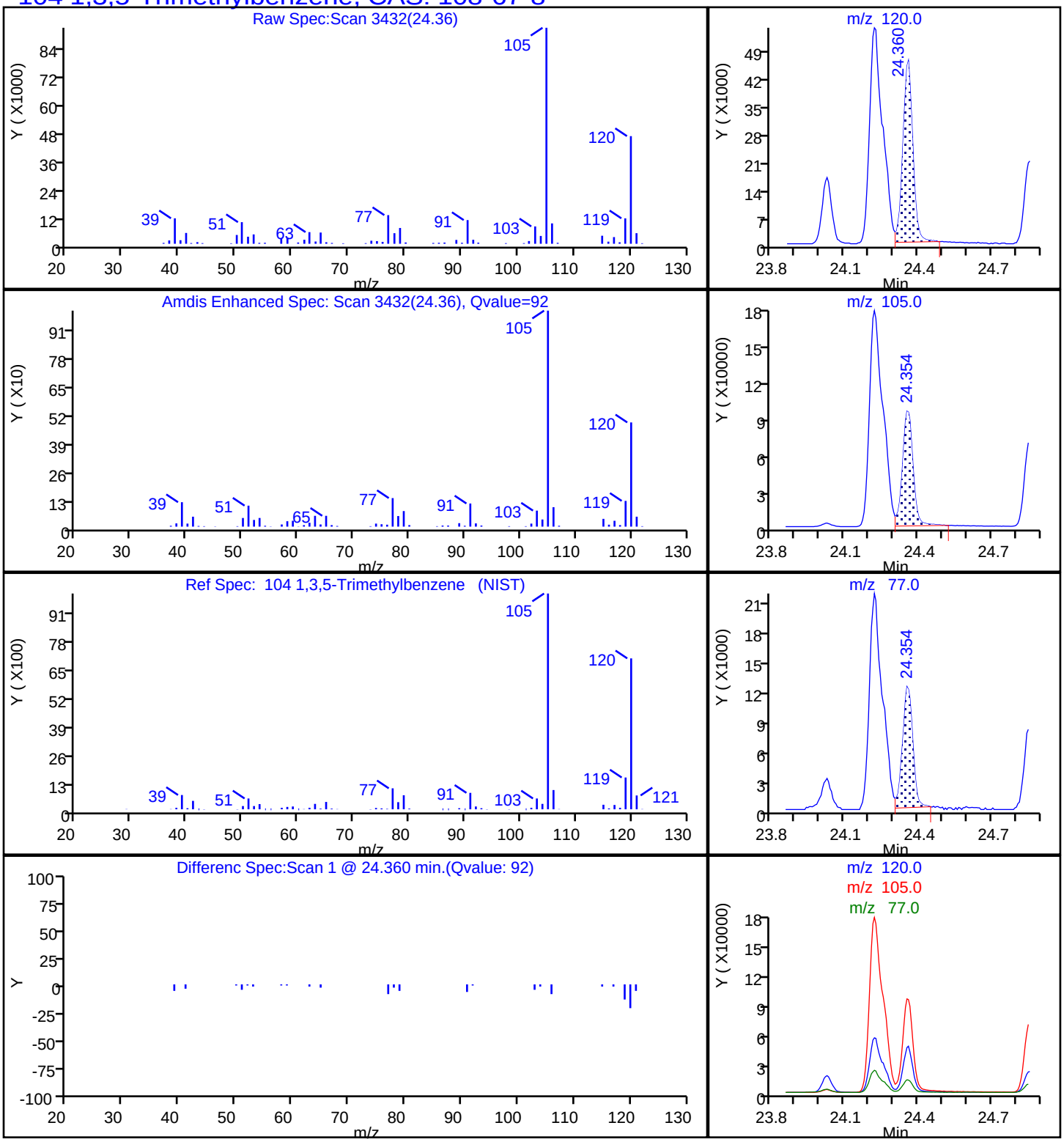
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

104 1,3,5-Trimethylbenzene, CAS: 108-67-8



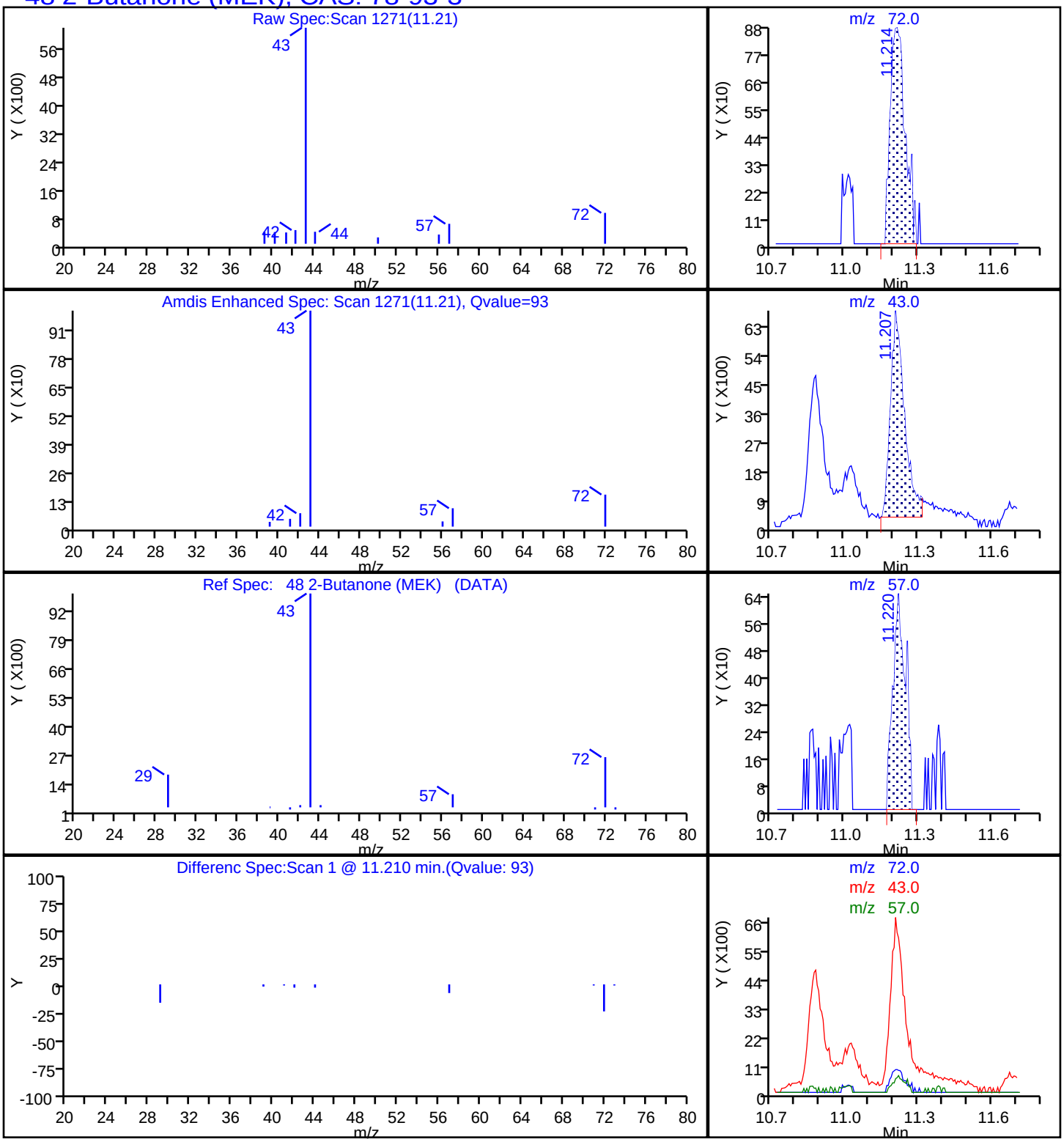
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



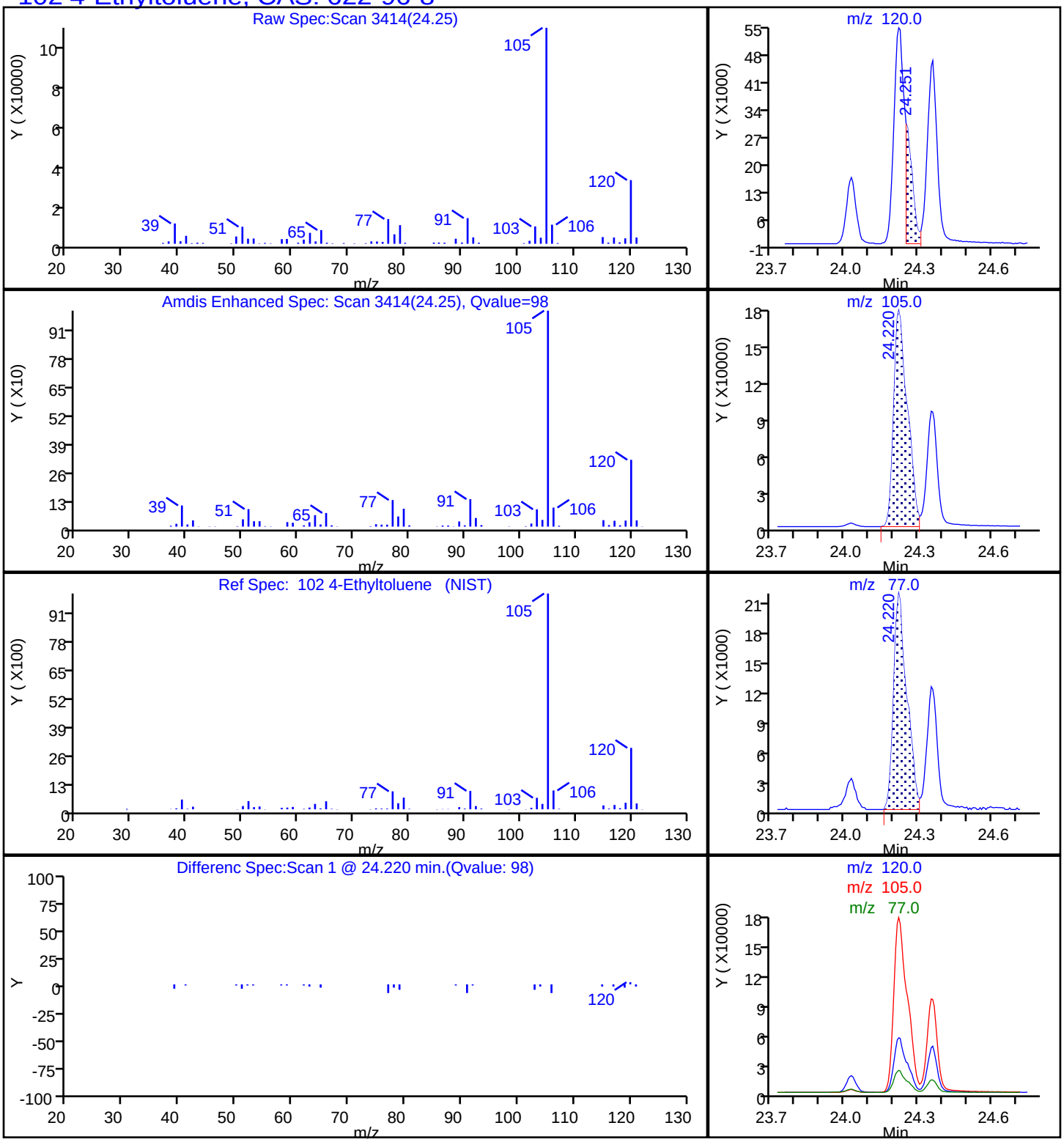
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

102 4-Ethyltoluene, CAS: 622-96-8



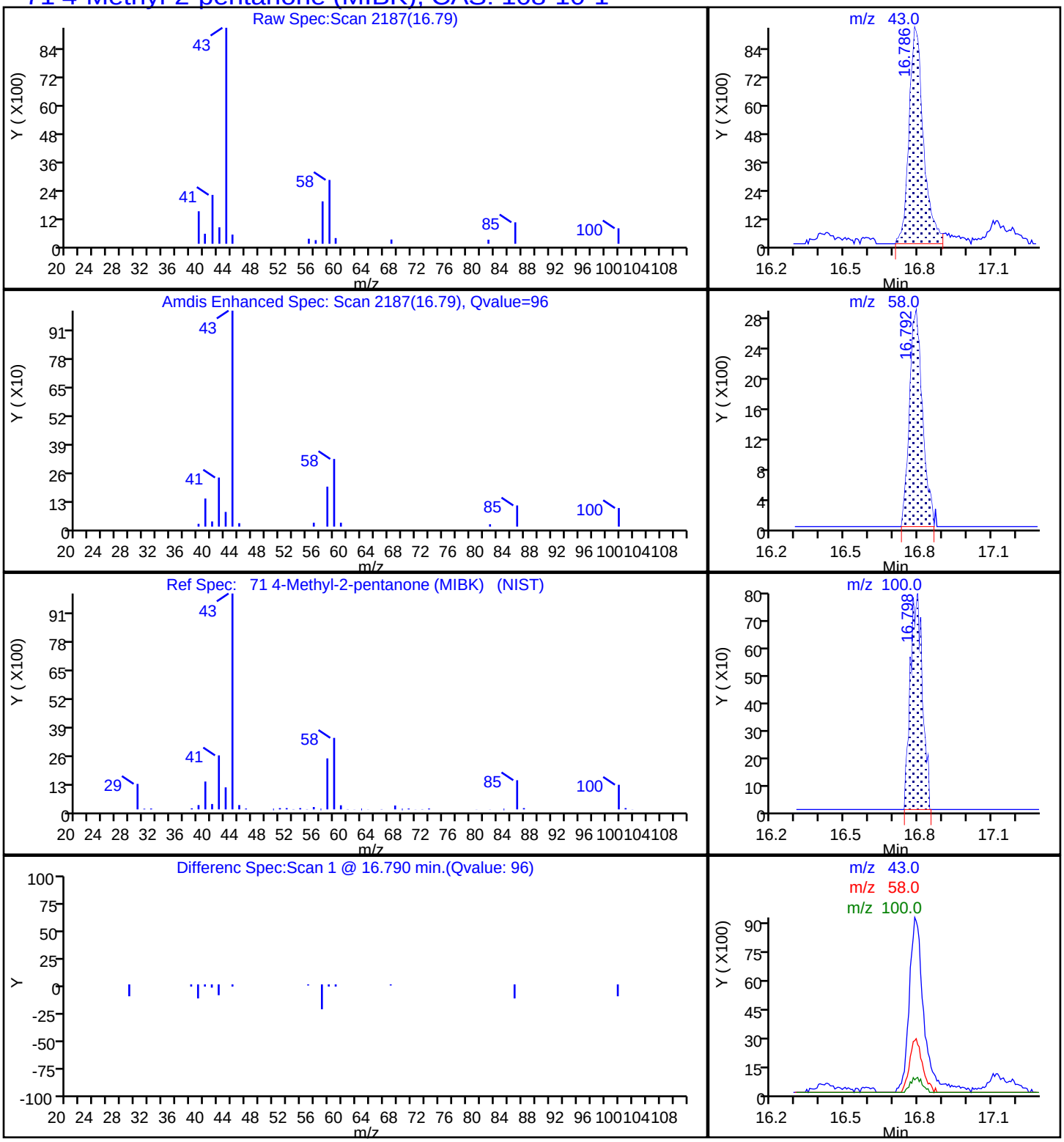
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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

71 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



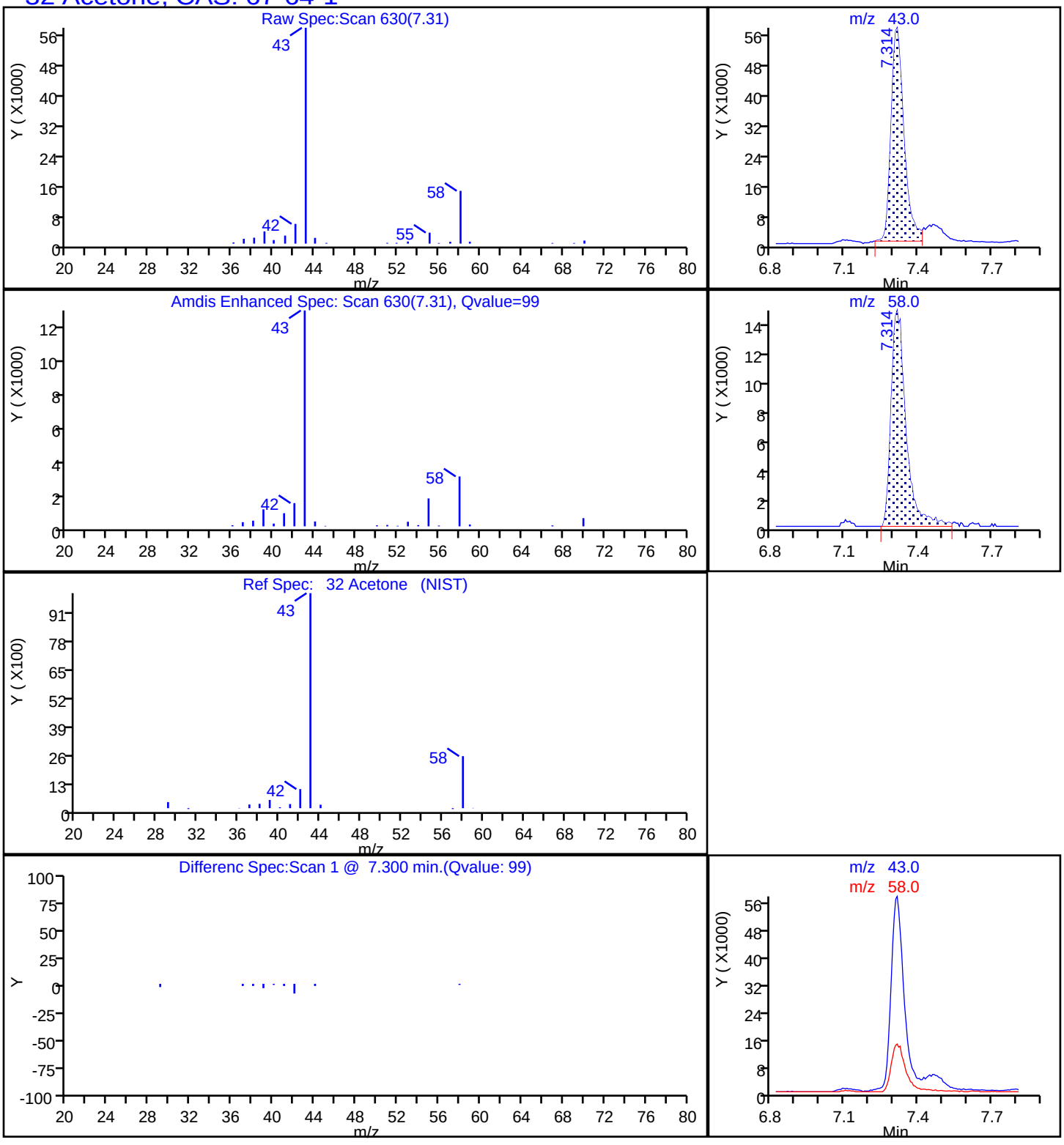
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1



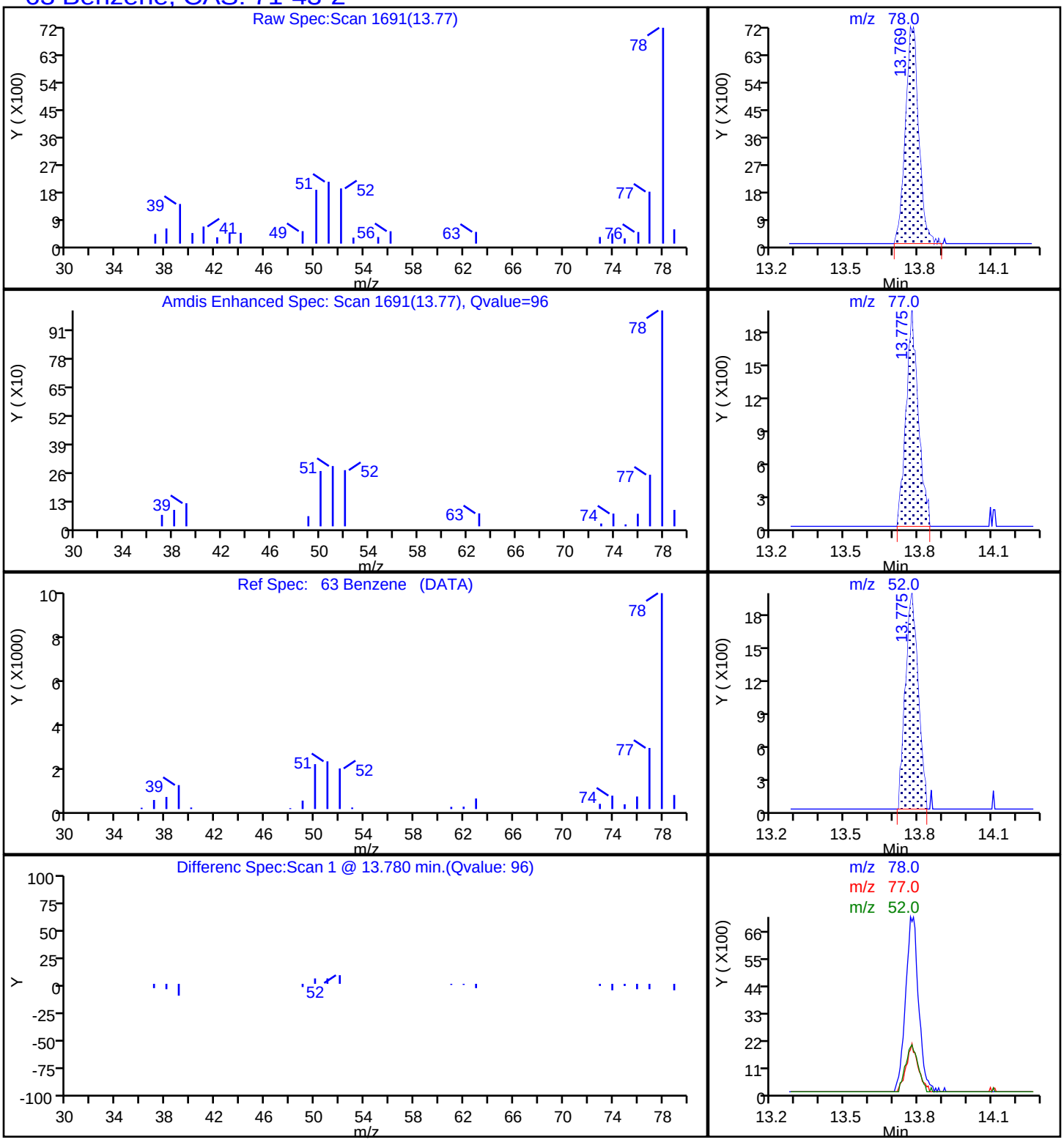
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



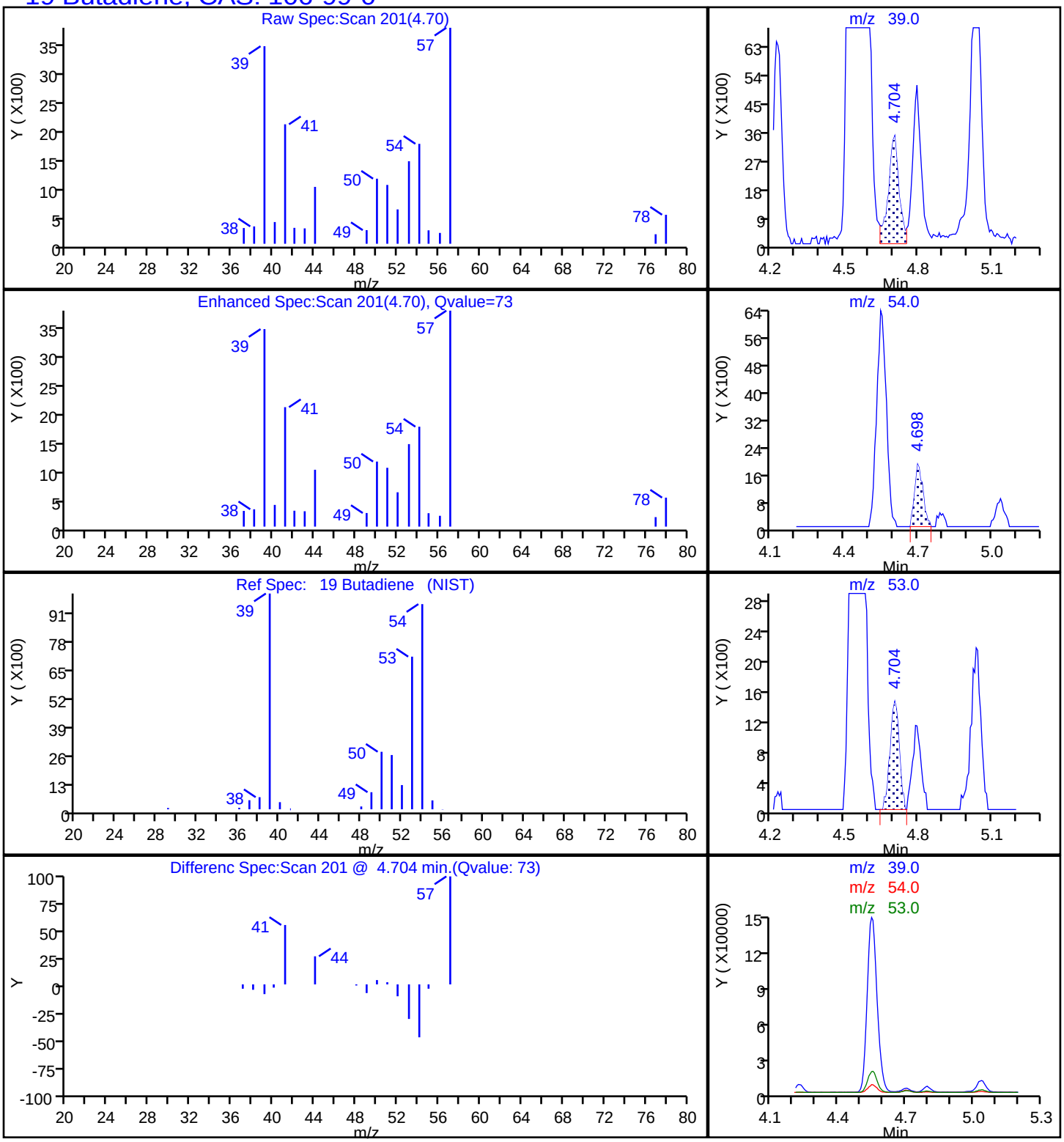
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

19 Butadiene, CAS: 106-99-0



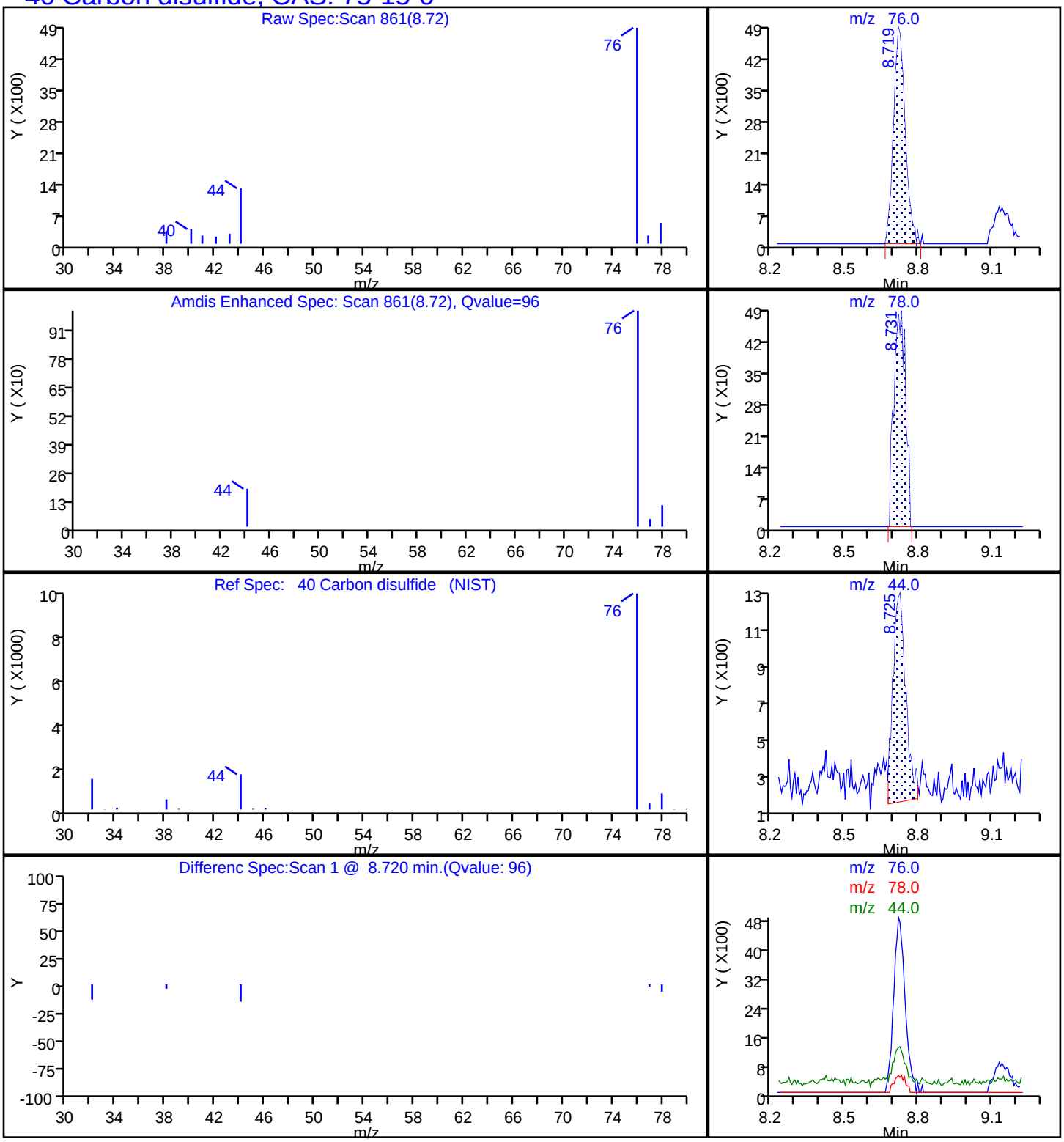
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

40 Carbon disulfide, CAS: 75-15-0



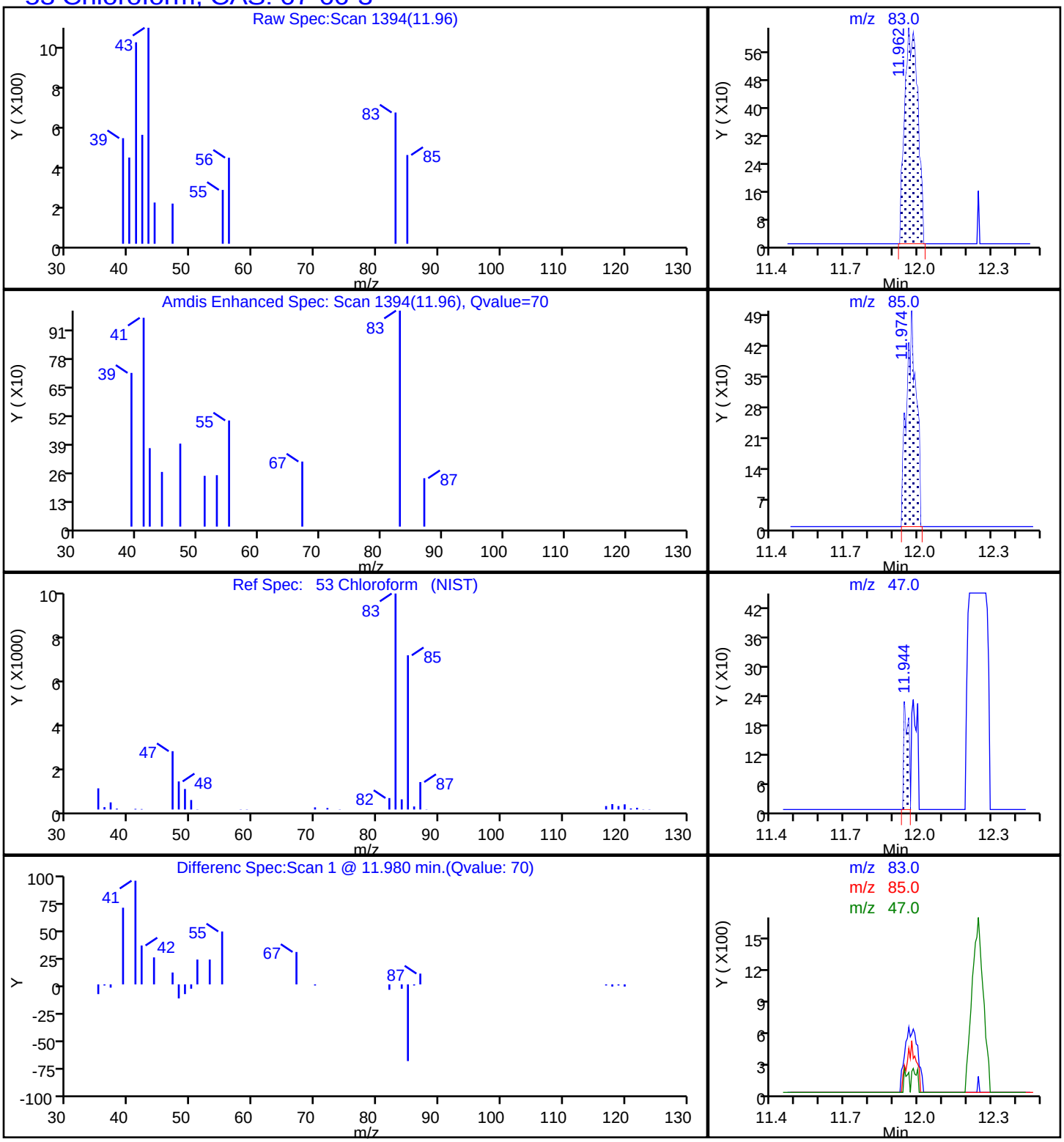
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



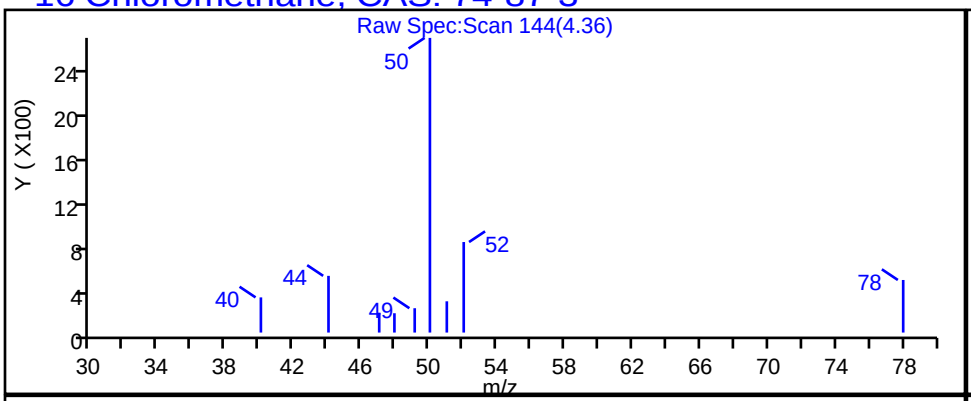
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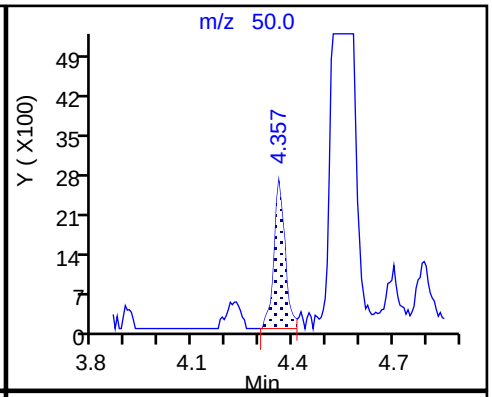
TestAmerica Sacramento

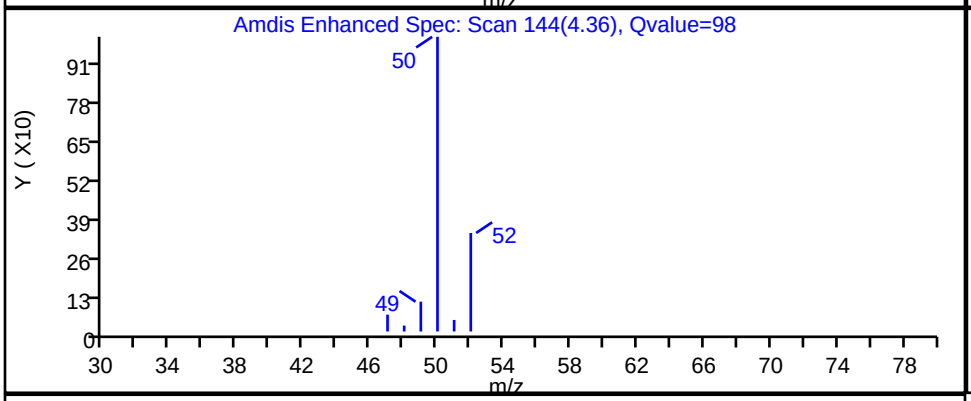
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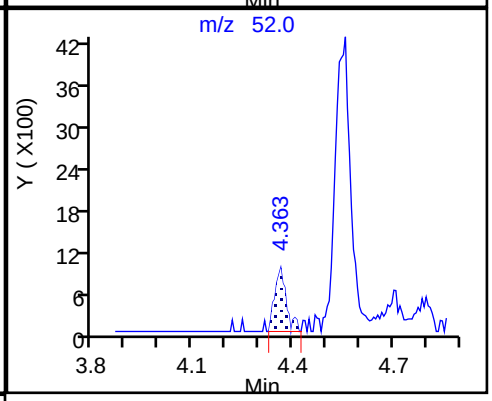
Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

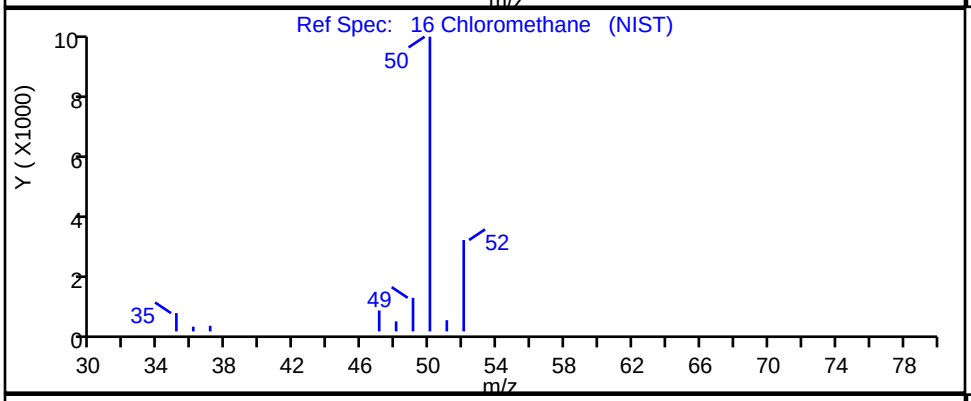
16 Chloromethane, CAS: 74-87-3

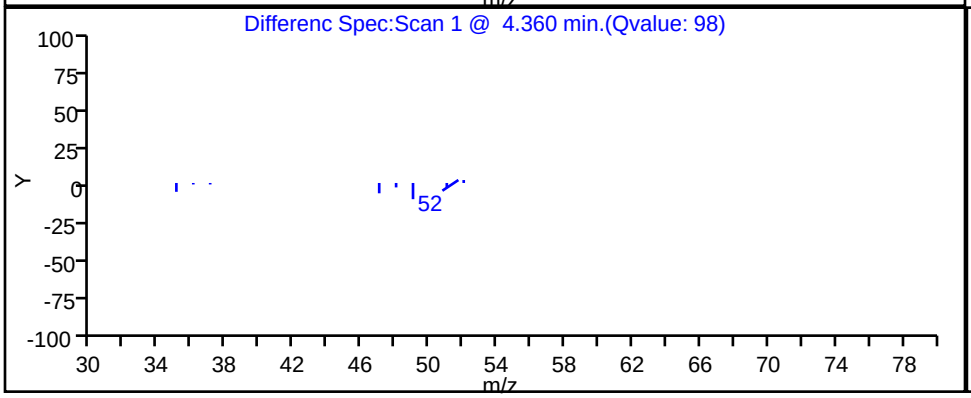


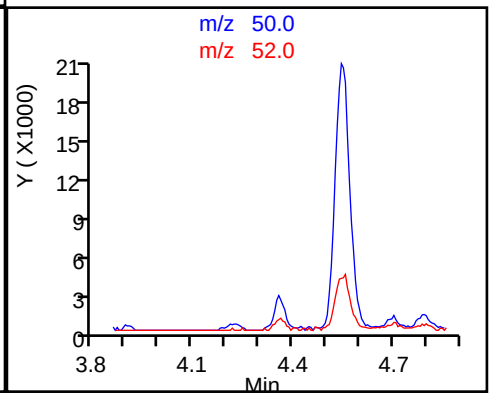












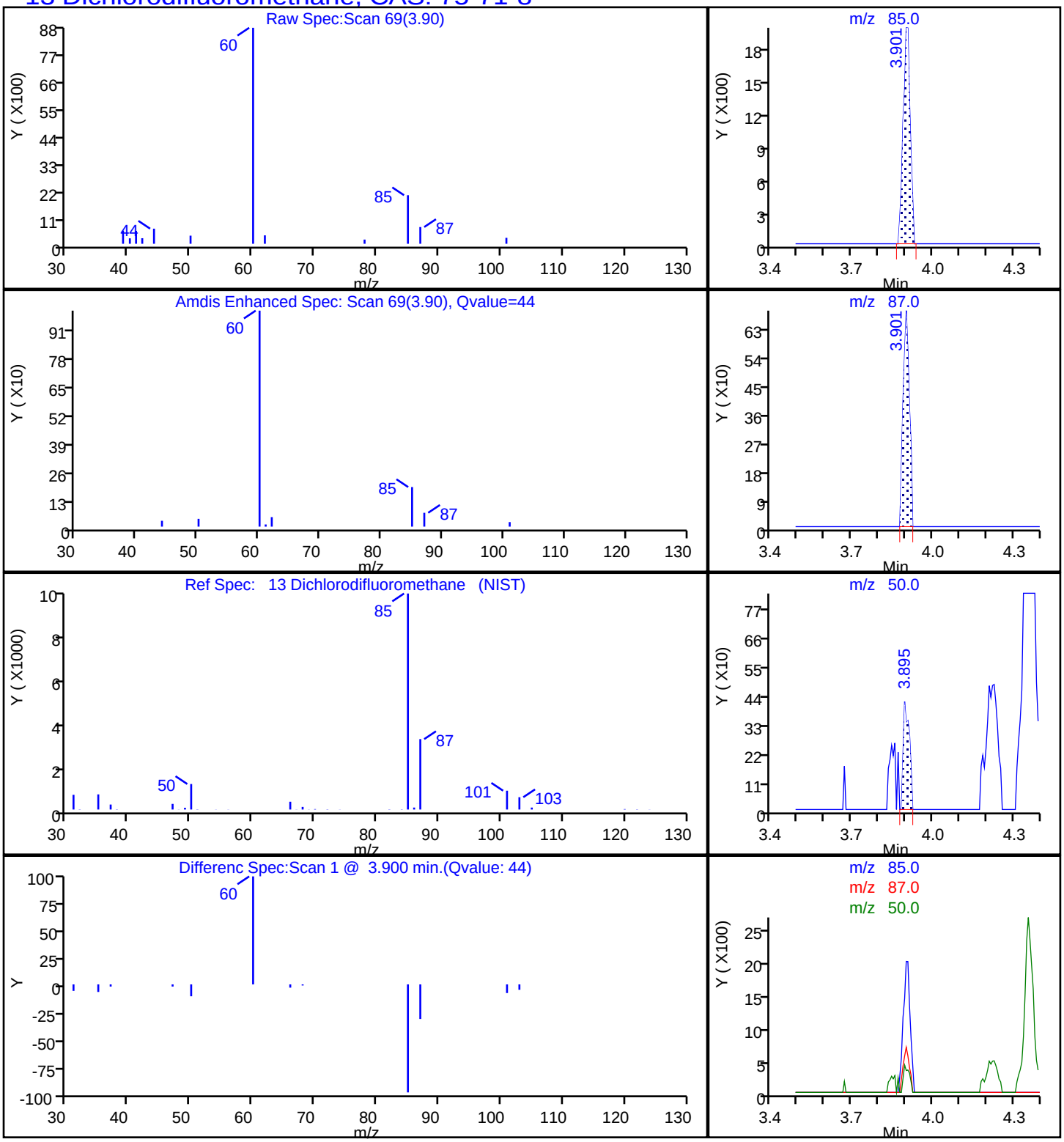
Report Date: 06-Apr-2018 14:54:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8



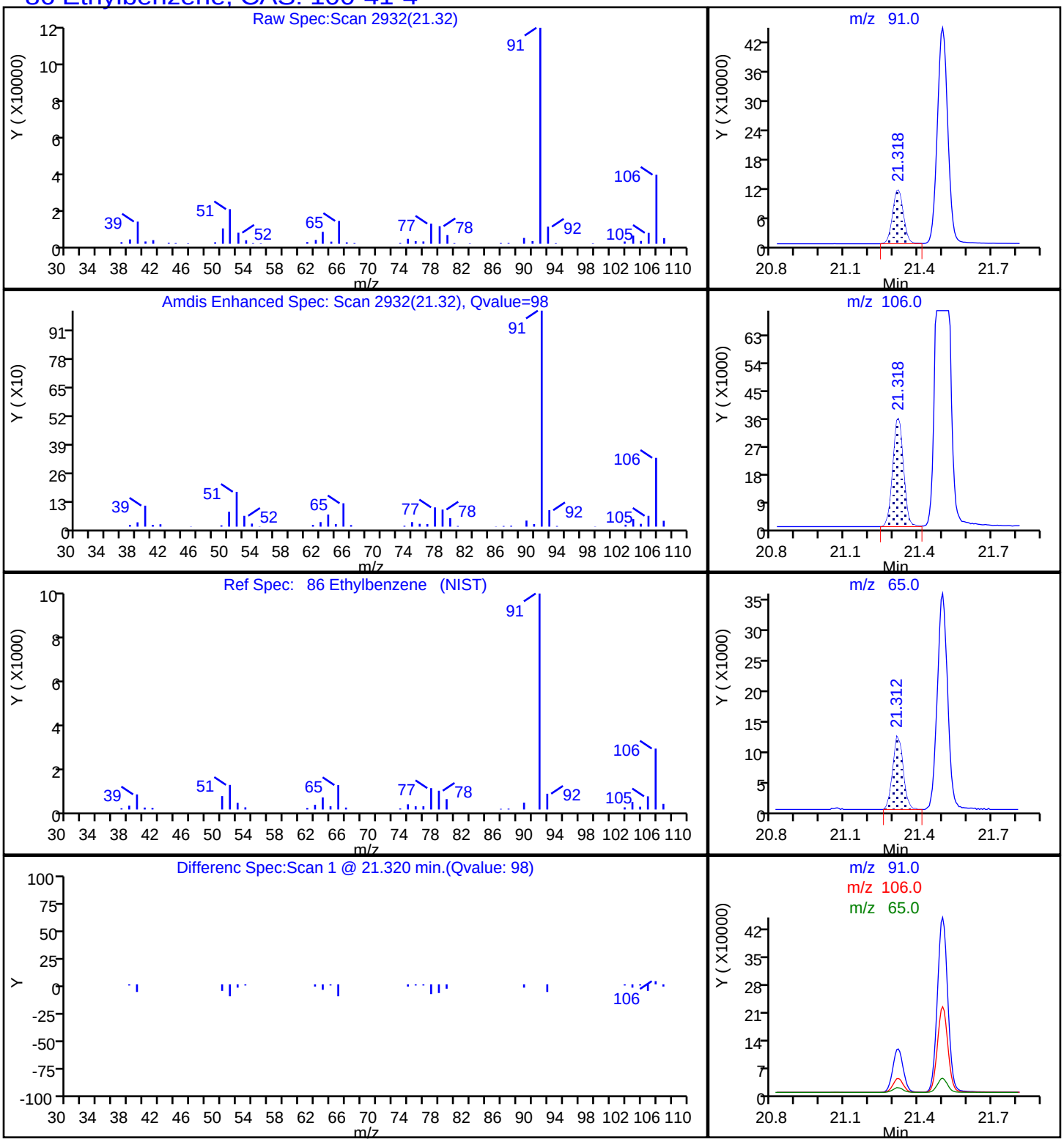
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



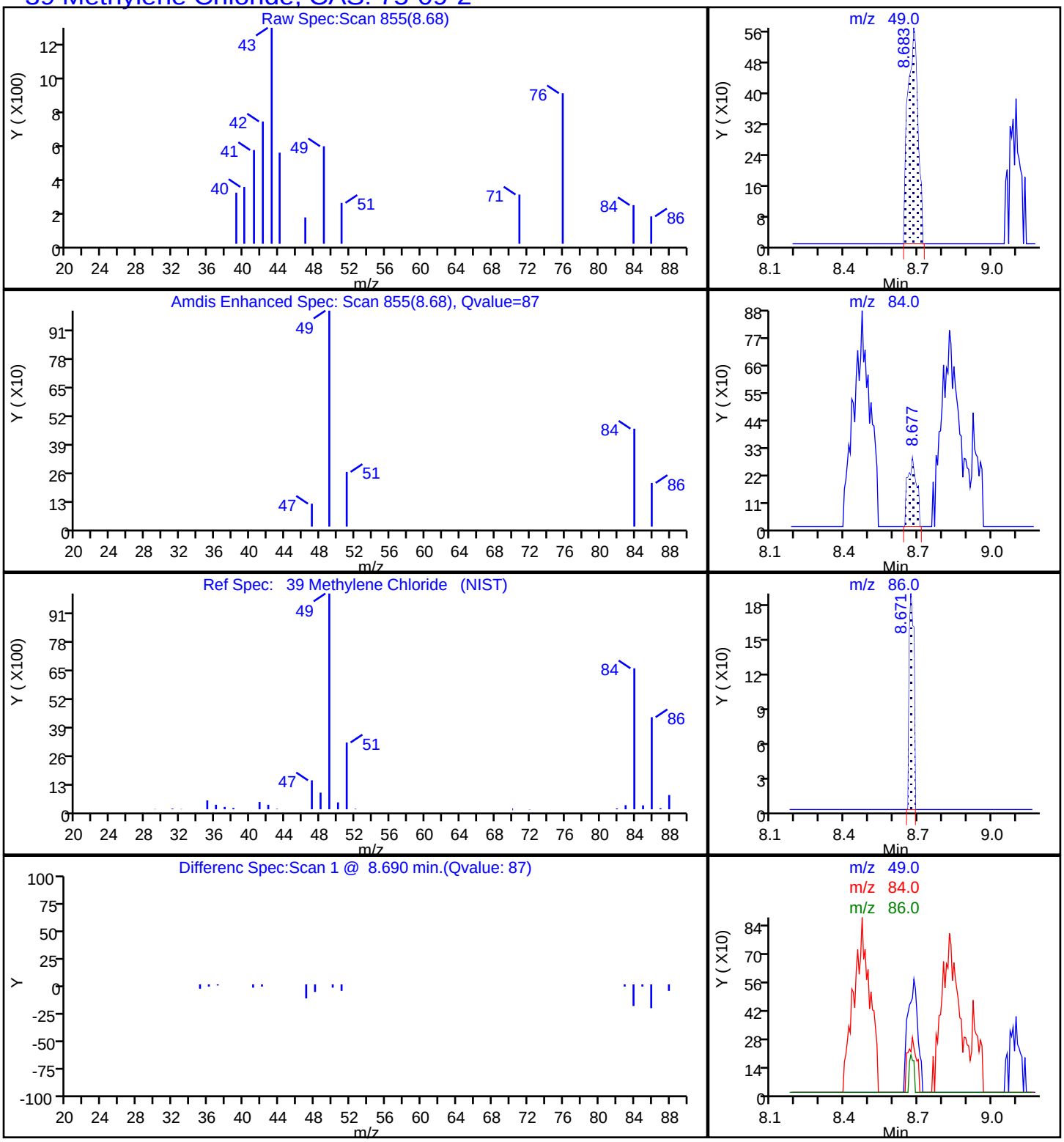
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

39 Methylene Chloride, CAS: 75-09-2



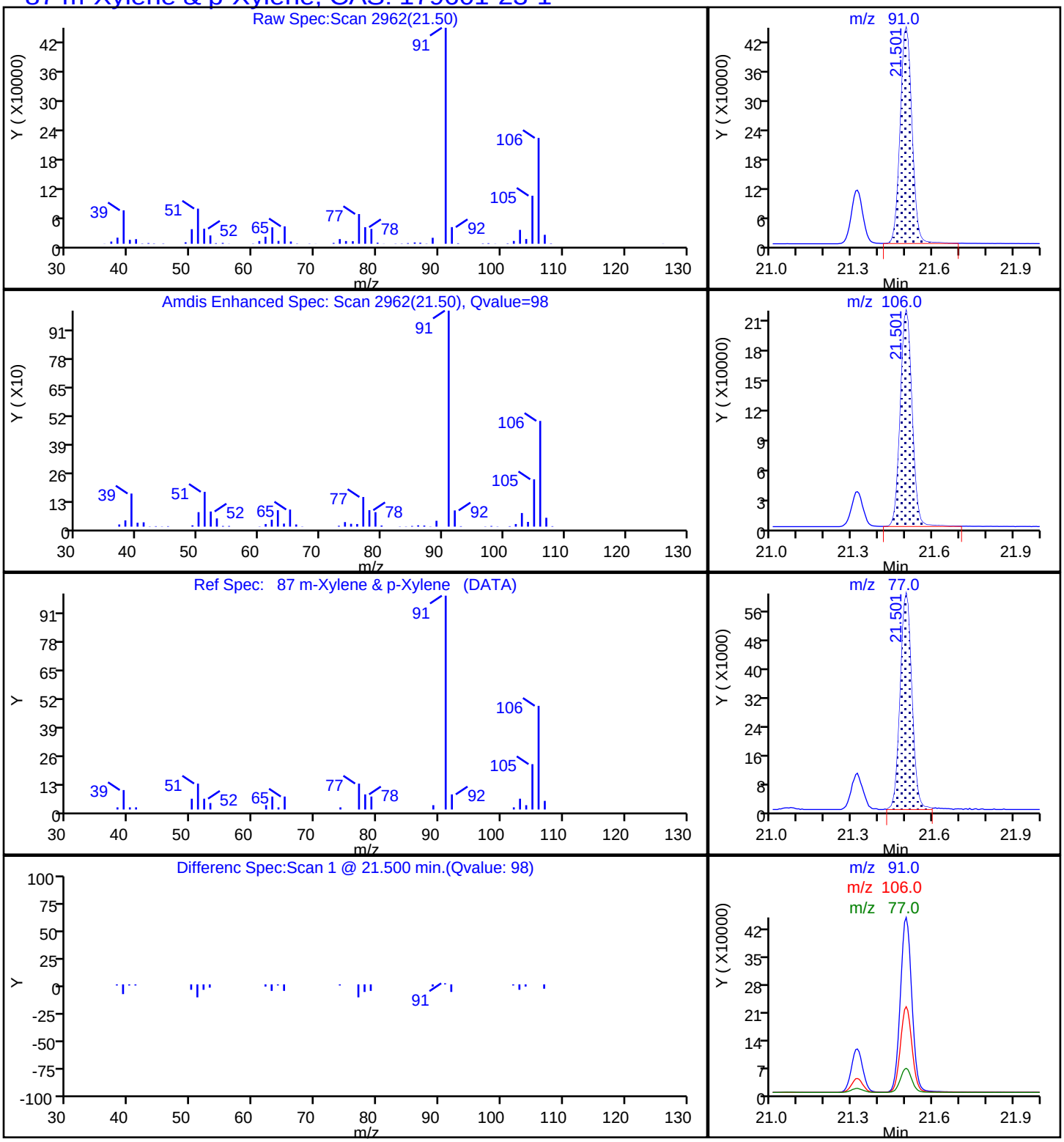
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



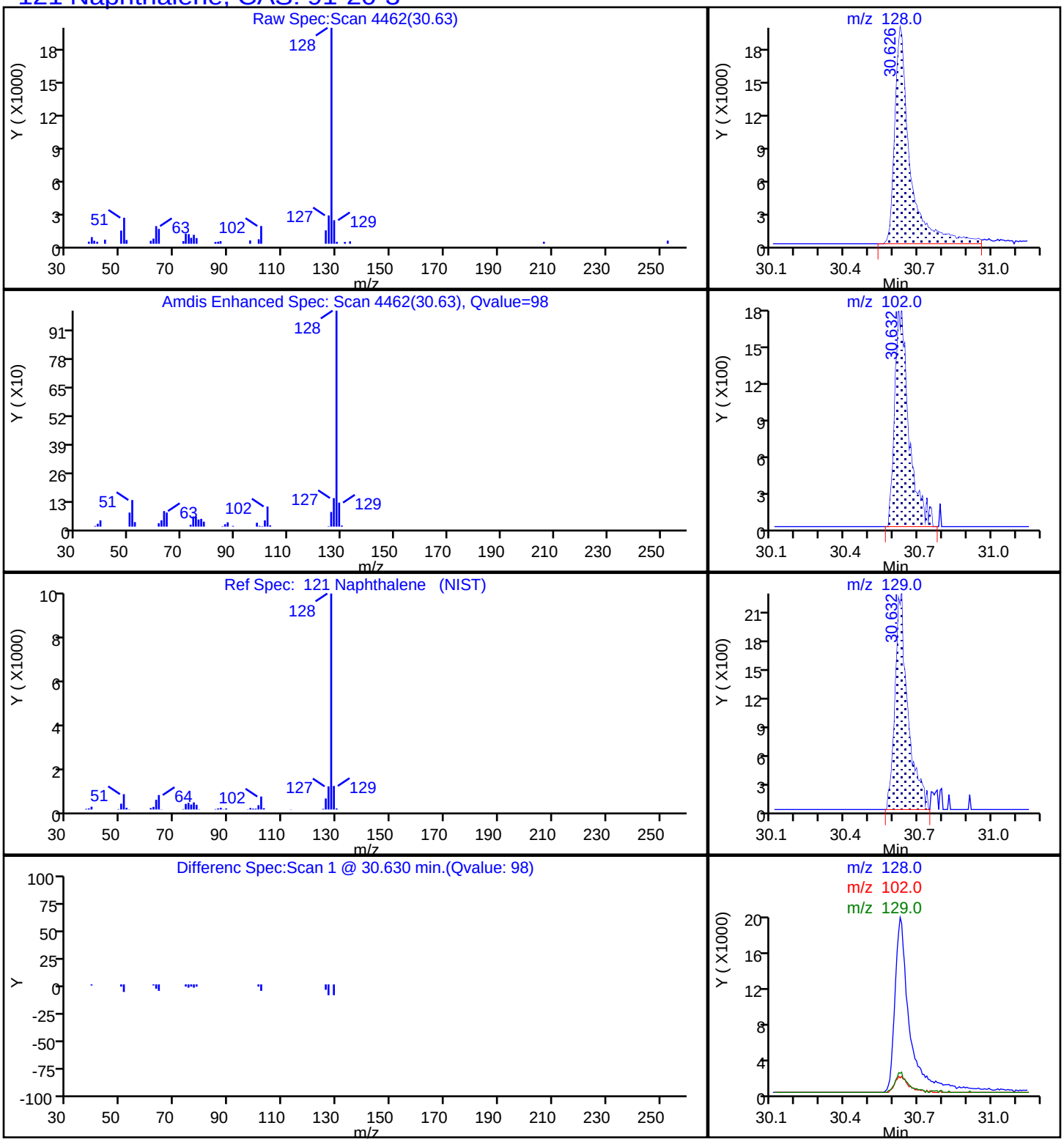
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3



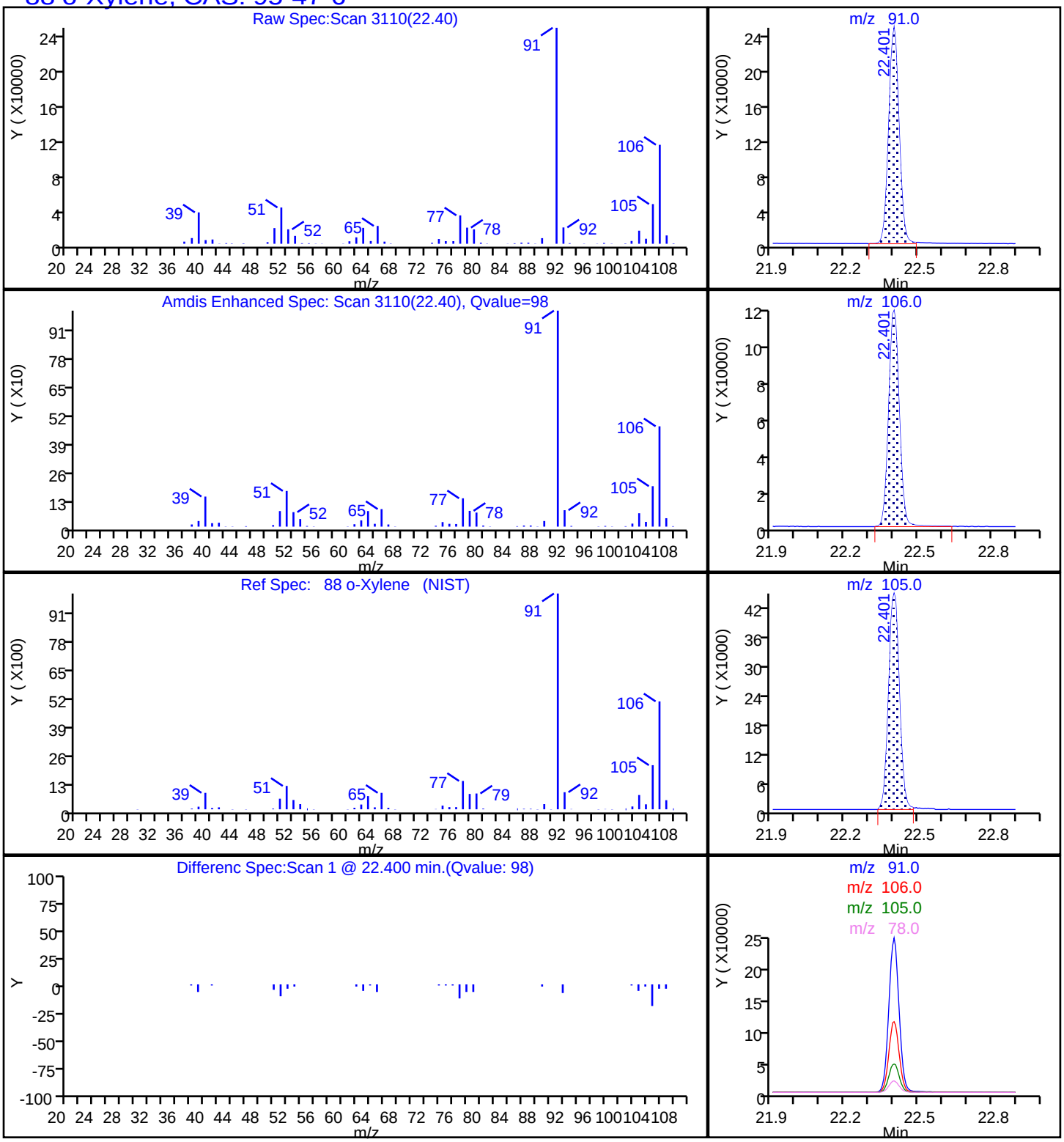
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

88 o-Xylene, CAS: 95-47-6



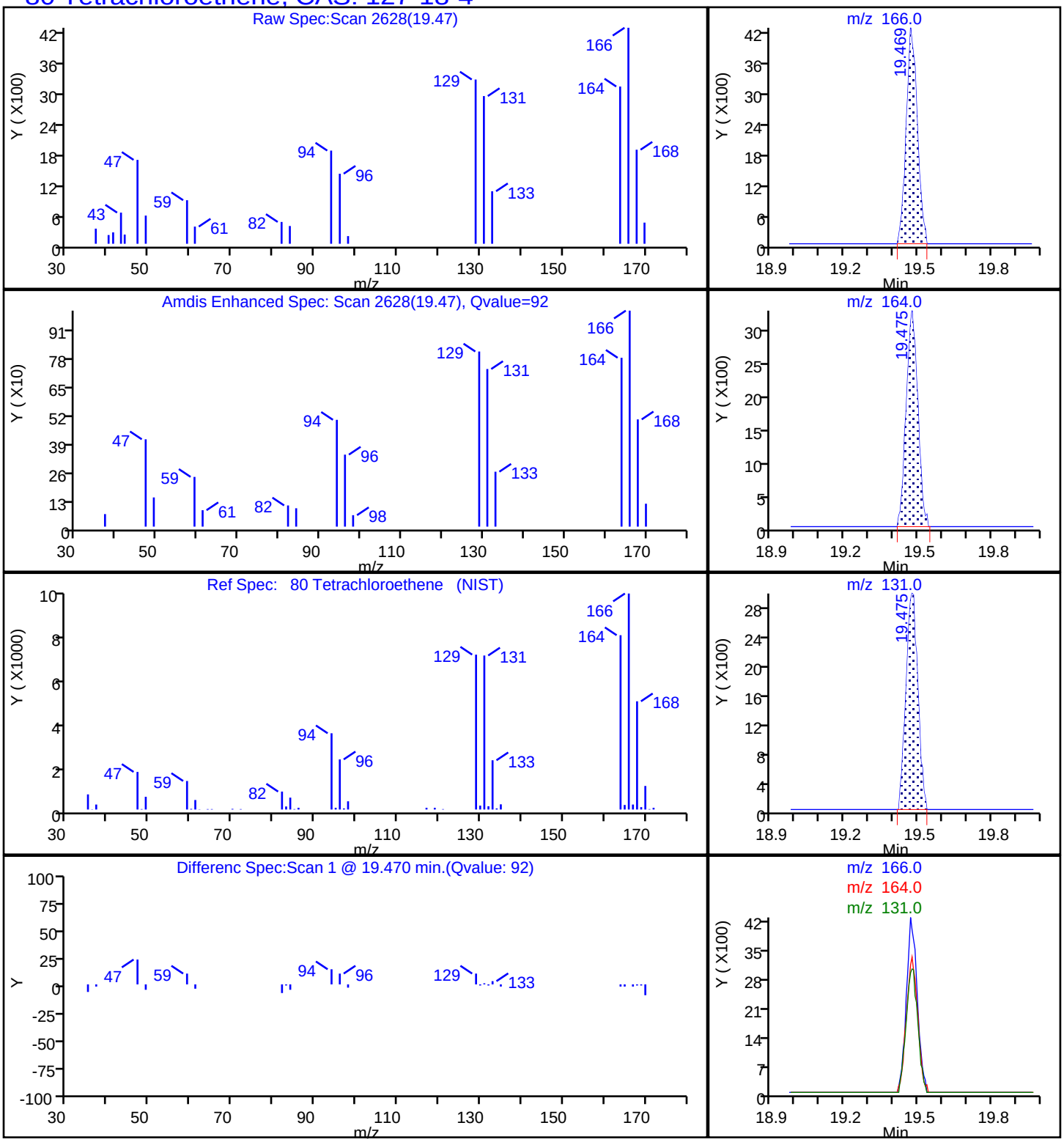
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



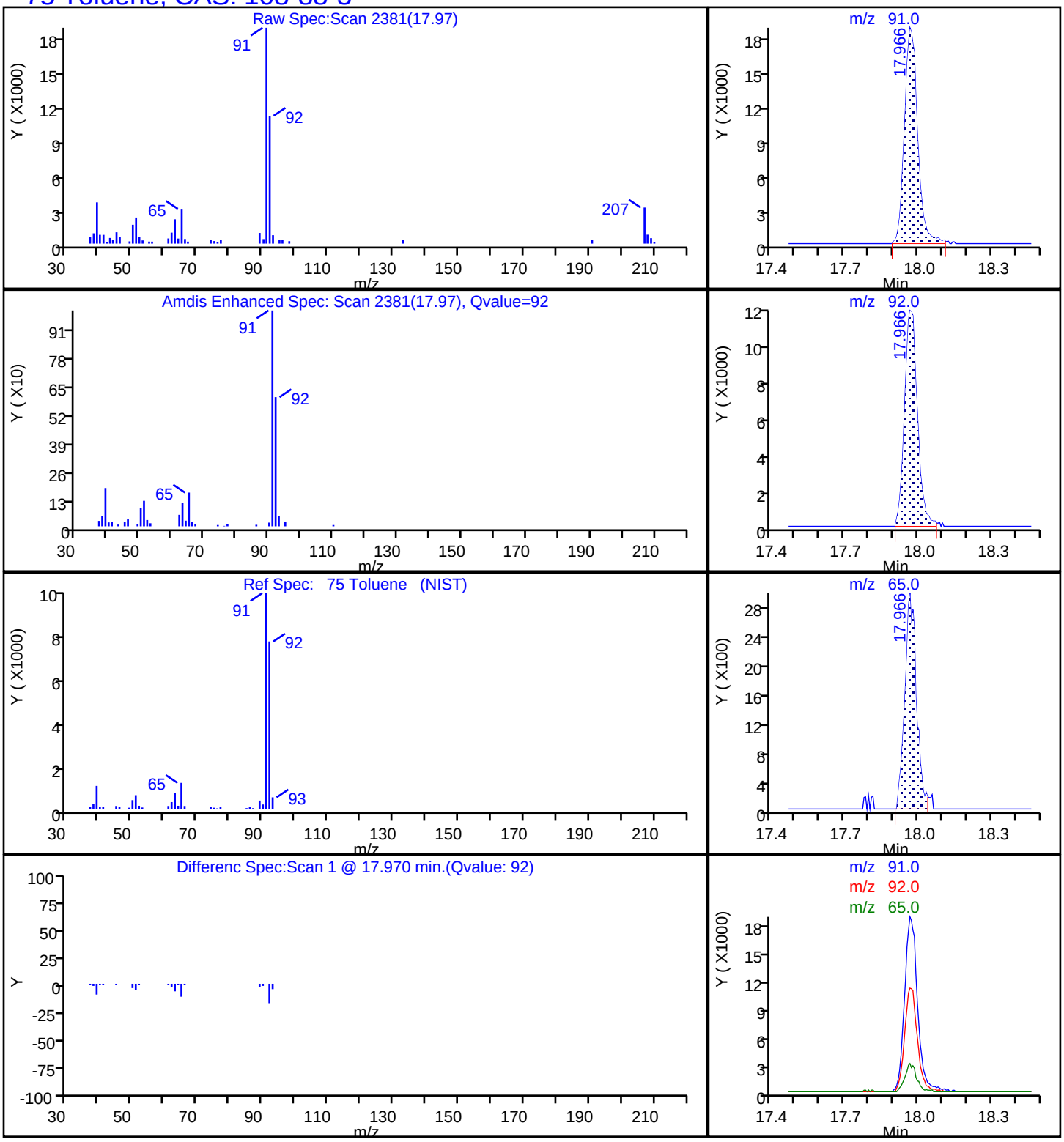
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

75 Toluene, CAS: 108-88-3



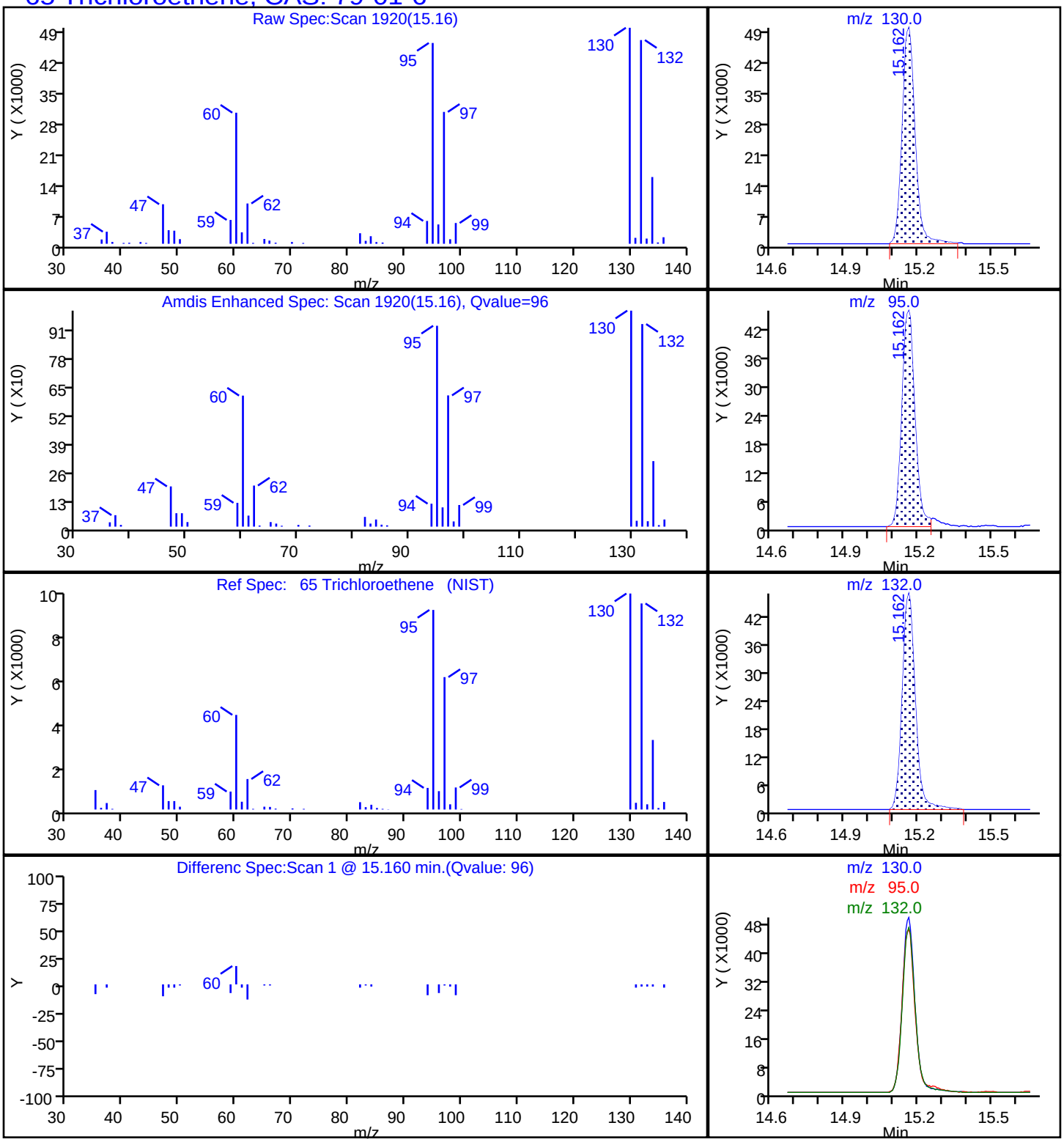
Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16
Client ID:	786VMP-1_0318		
Operator ID:	LHS	ALS Bottle#:	11 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



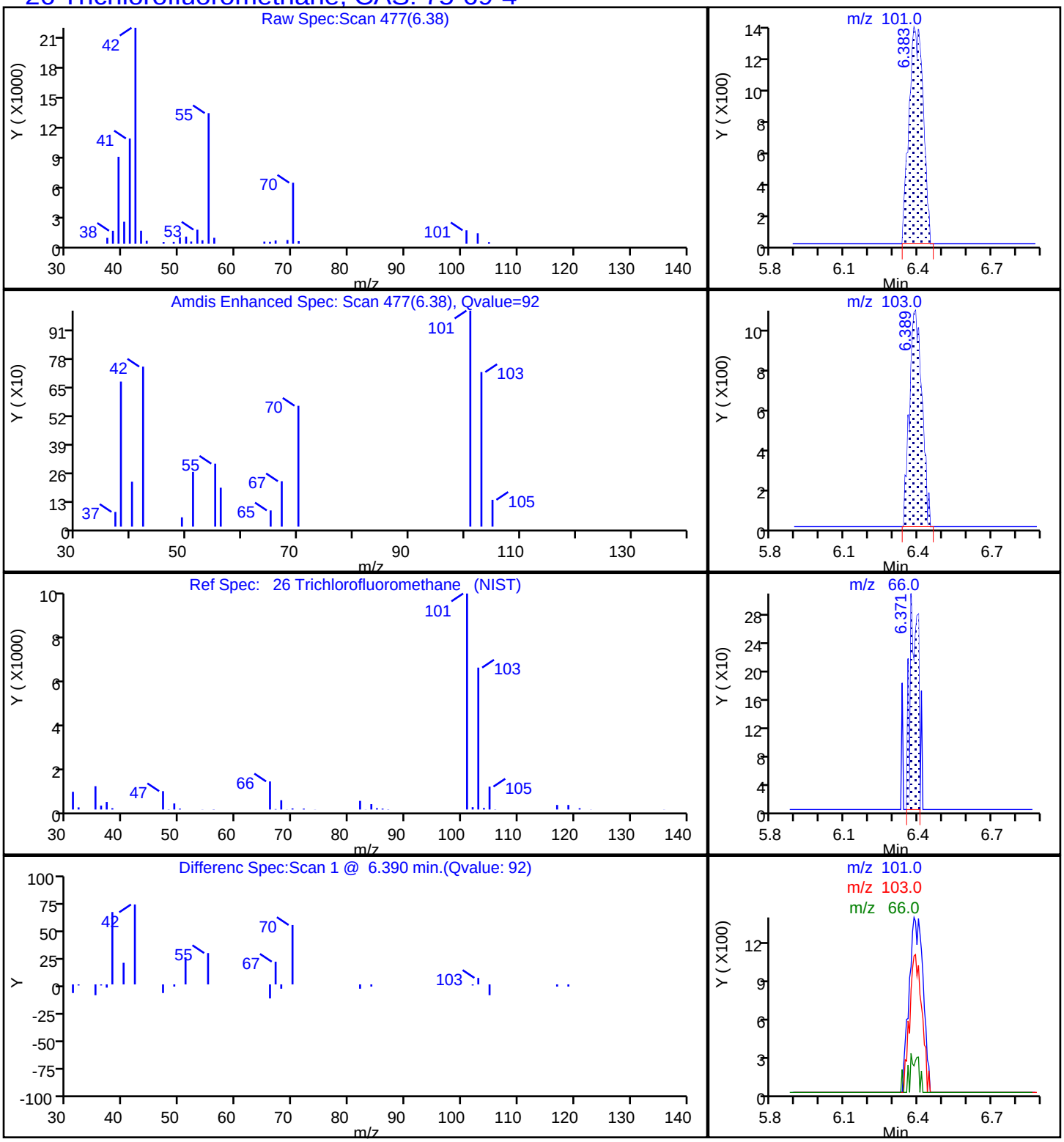
Report Date: 06-Apr-2018 14:54:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D

Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

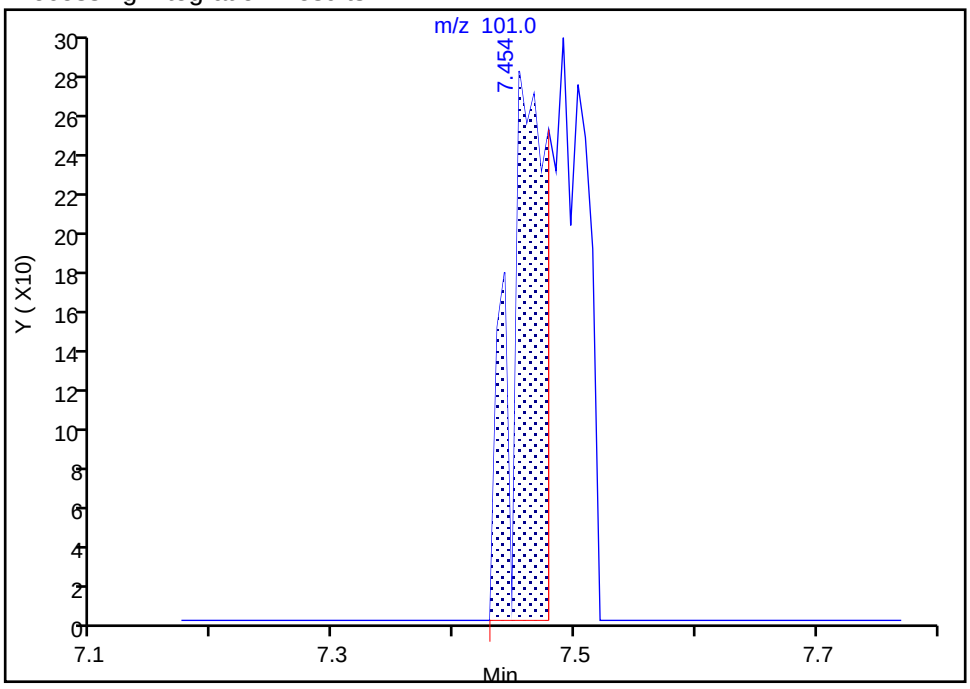
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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

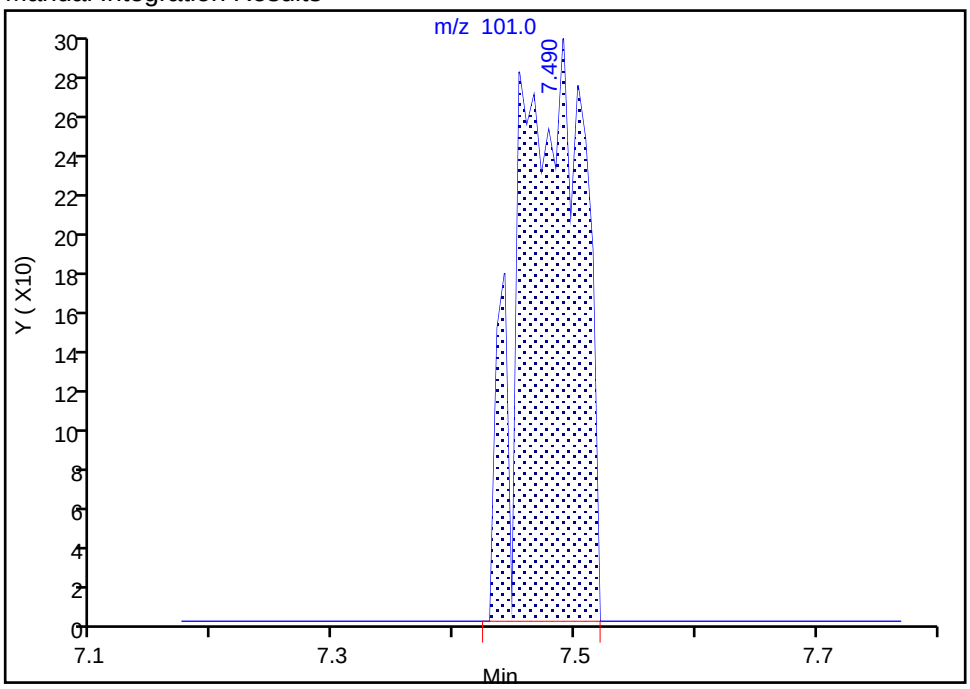
Processing Integration Results

RT: 7.45
Area: 588
Amount: 0.049934
Amount Units: ppb v/v



Manual Integration Results

RT: 7.49
Area: 1114
Amount: 0.094603
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 14:52:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

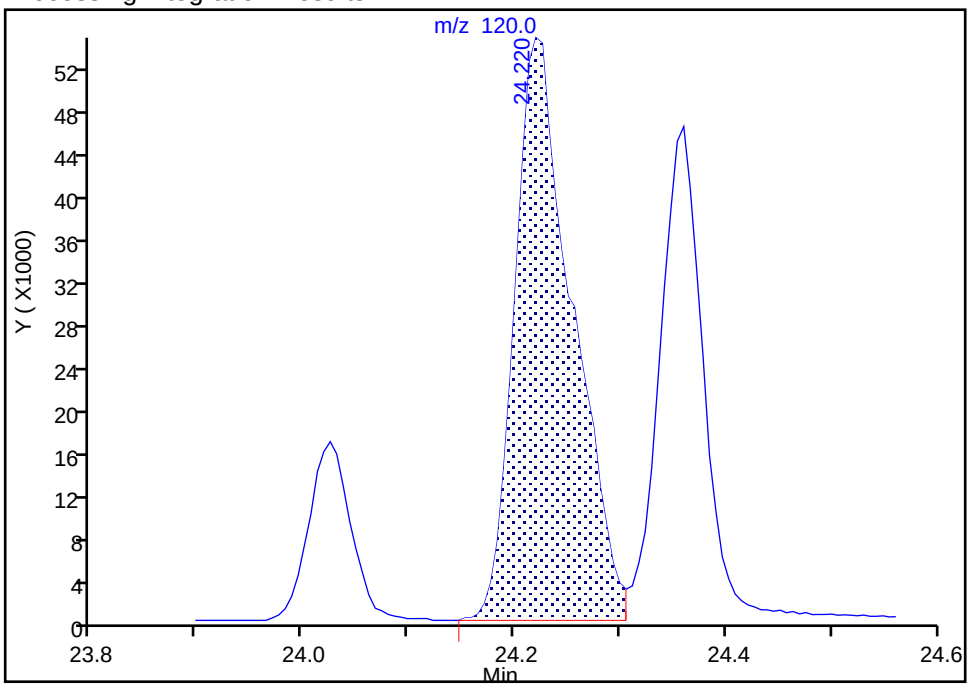
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Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

102 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

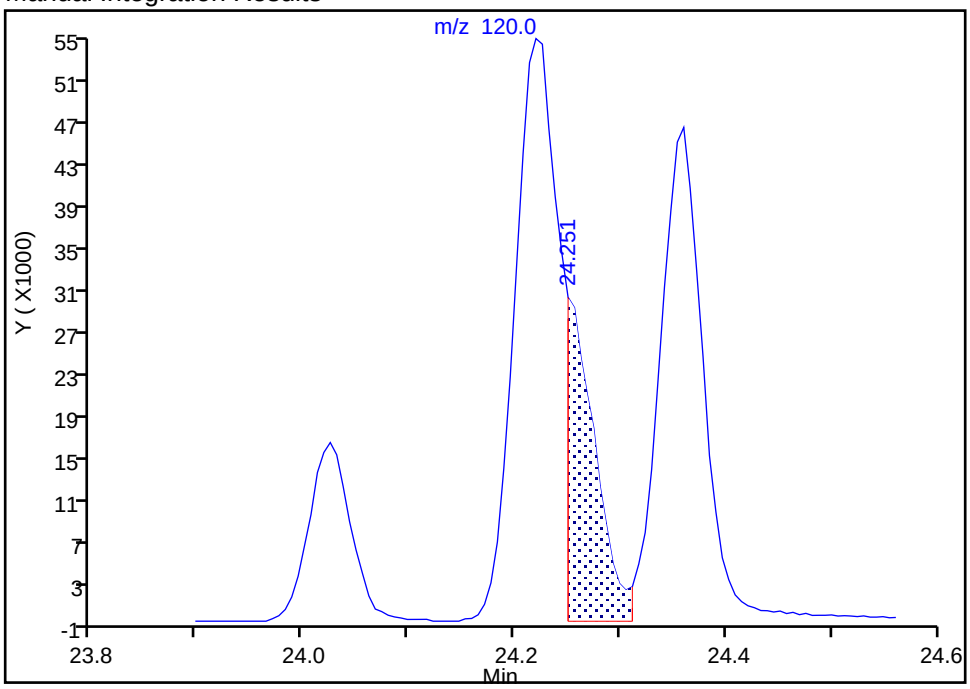
Processing Integration Results

RT: 24.22
Area: 205263
Amount: 14.000108
Amount Units: ppb v/v



Manual Integration Results

RT: 24.25
Area: 58082
Amount: 3.961524
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 14:53:50

Audit Action: Assigned New Baseline Audit Reason: Split Peak

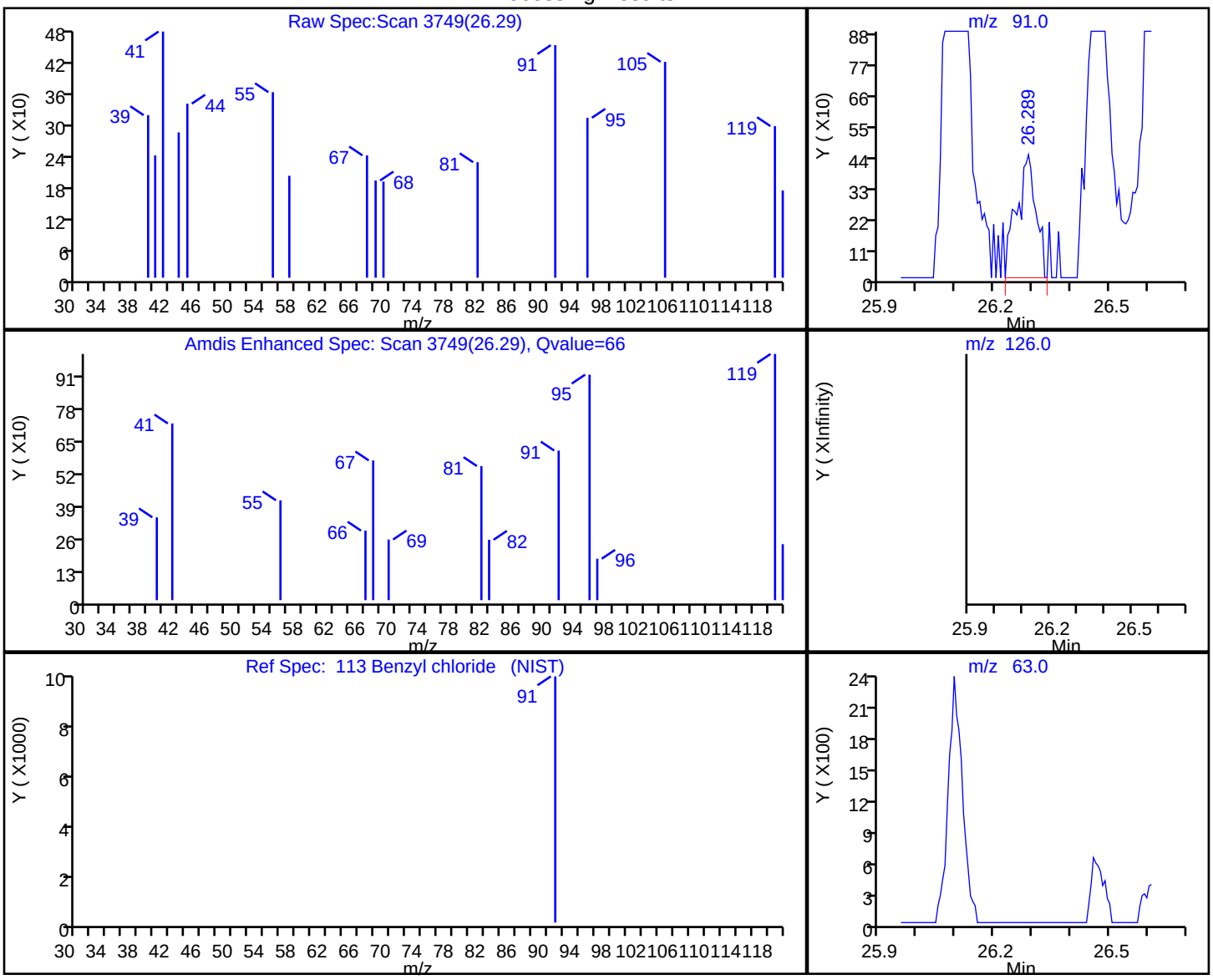
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D				
Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

113 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
26.29	91.00	1551	0.035078
26.28	126.00	0	
26.28	63.00	0	

Reviewer: phanthasena, 06-Apr-2018 14:54:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

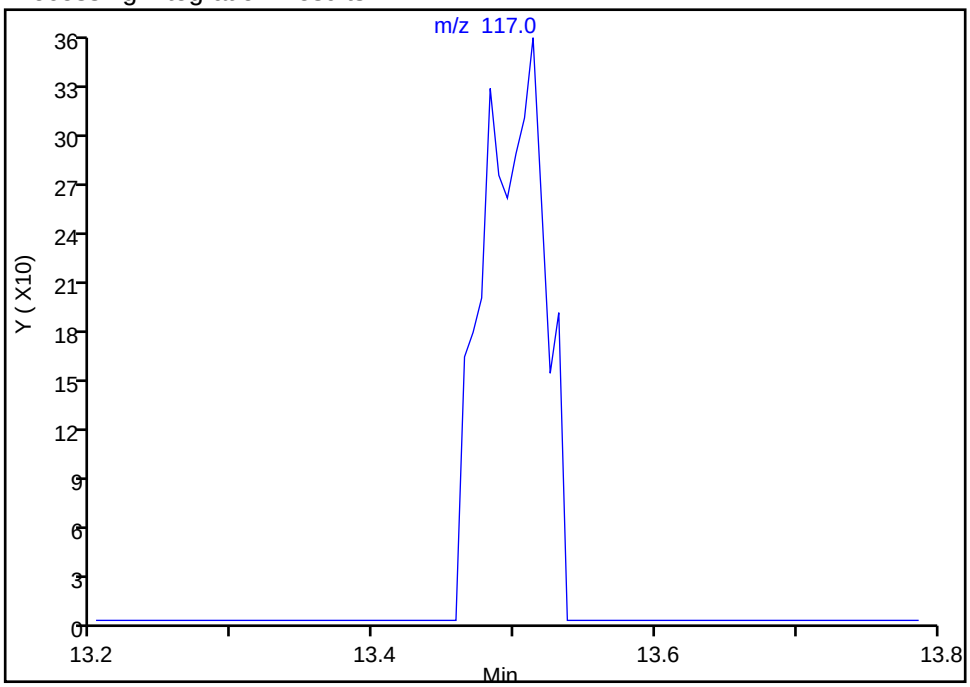
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D				
Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

59 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

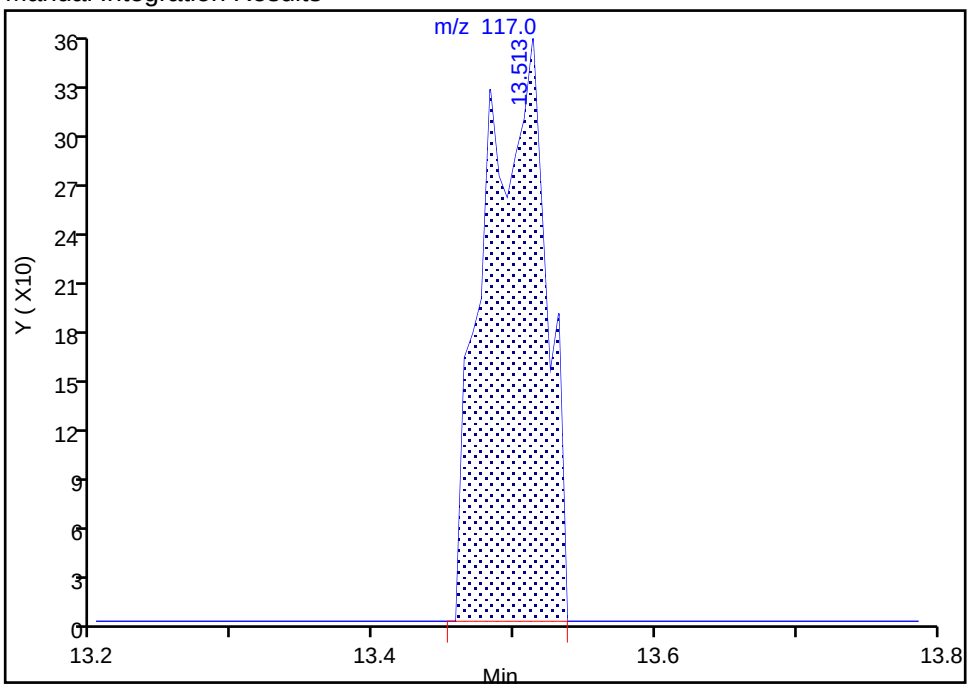
Not Detected
Expected RT: 13.48

Processing Integration Results



Manual Integration Results

RT: 13.51
Area: 1069
Amount: 0.062794
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 14:53:06
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Report Date: 06-Apr-2018 14:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

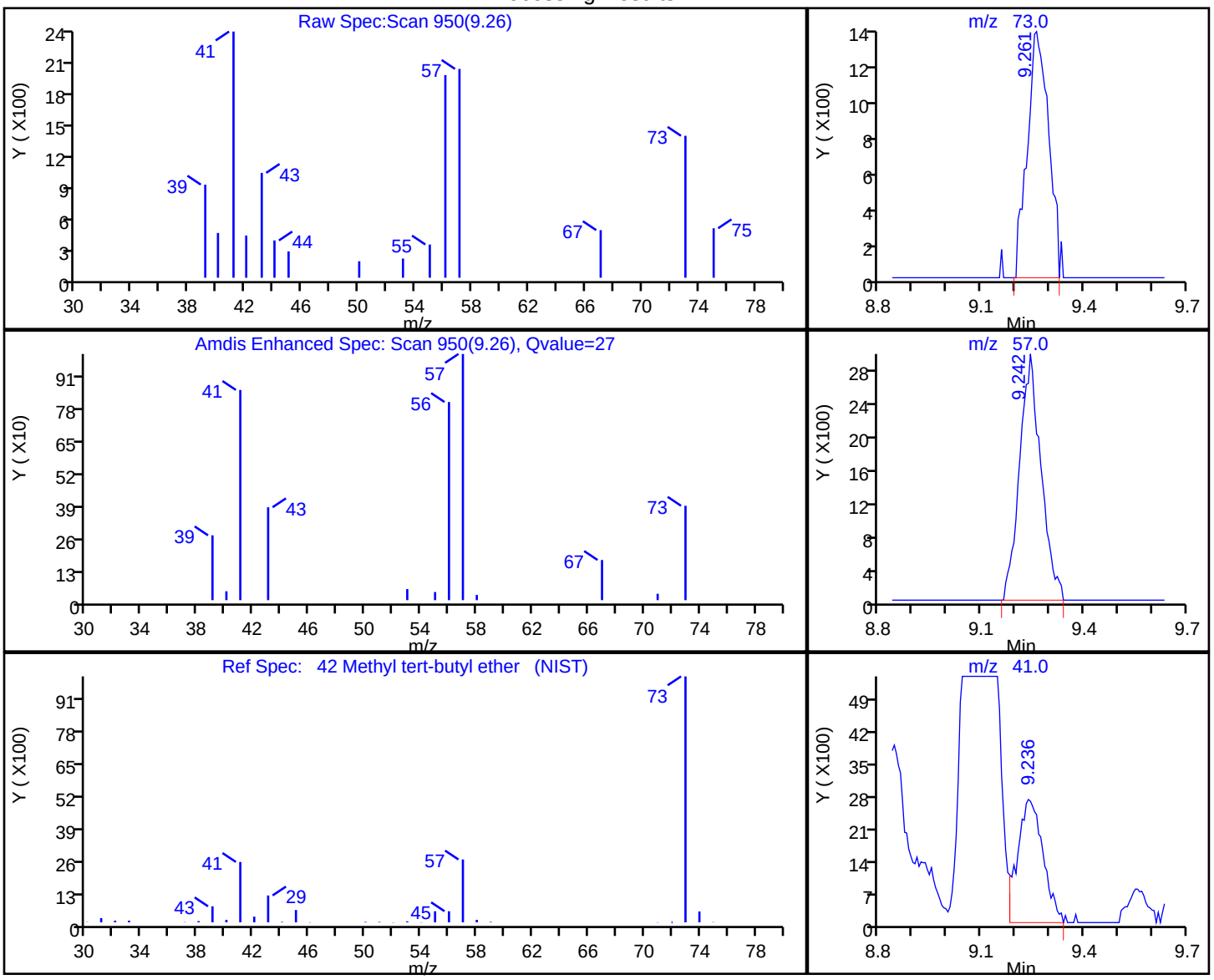
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D				
Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
9.26	73.00	5935	0.344369
9.24	57.00	13033	
9.24	41.00	14013	

Reviewer: phanthasena, 06-Apr-2018 14:54:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

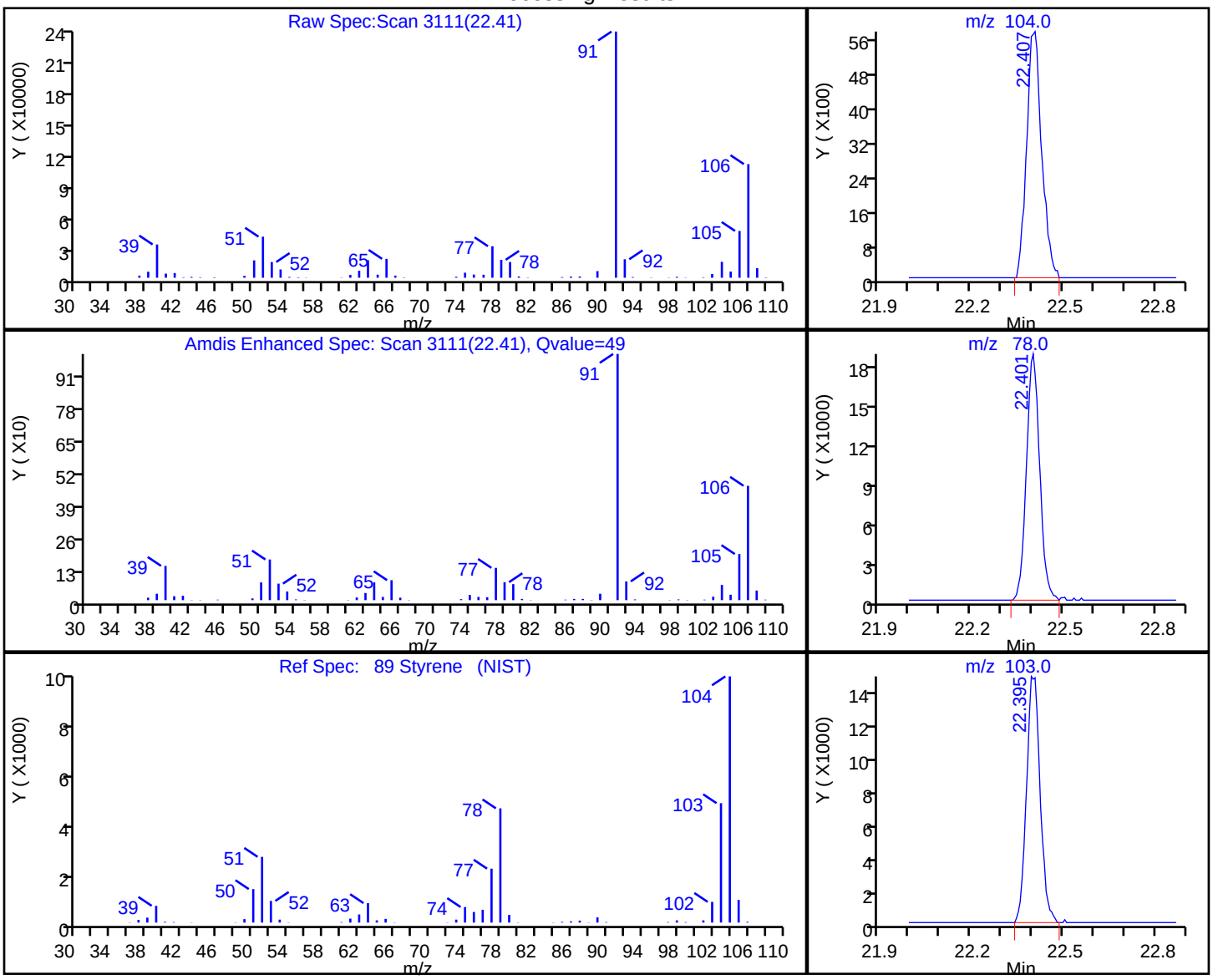
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D				
Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

89 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
22.41	104.00	19683	0.732818
22.40	78.00	55023	
22.40	103.00	46556	

Reviewer: phanthasena, 06-Apr-2018 14:54:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

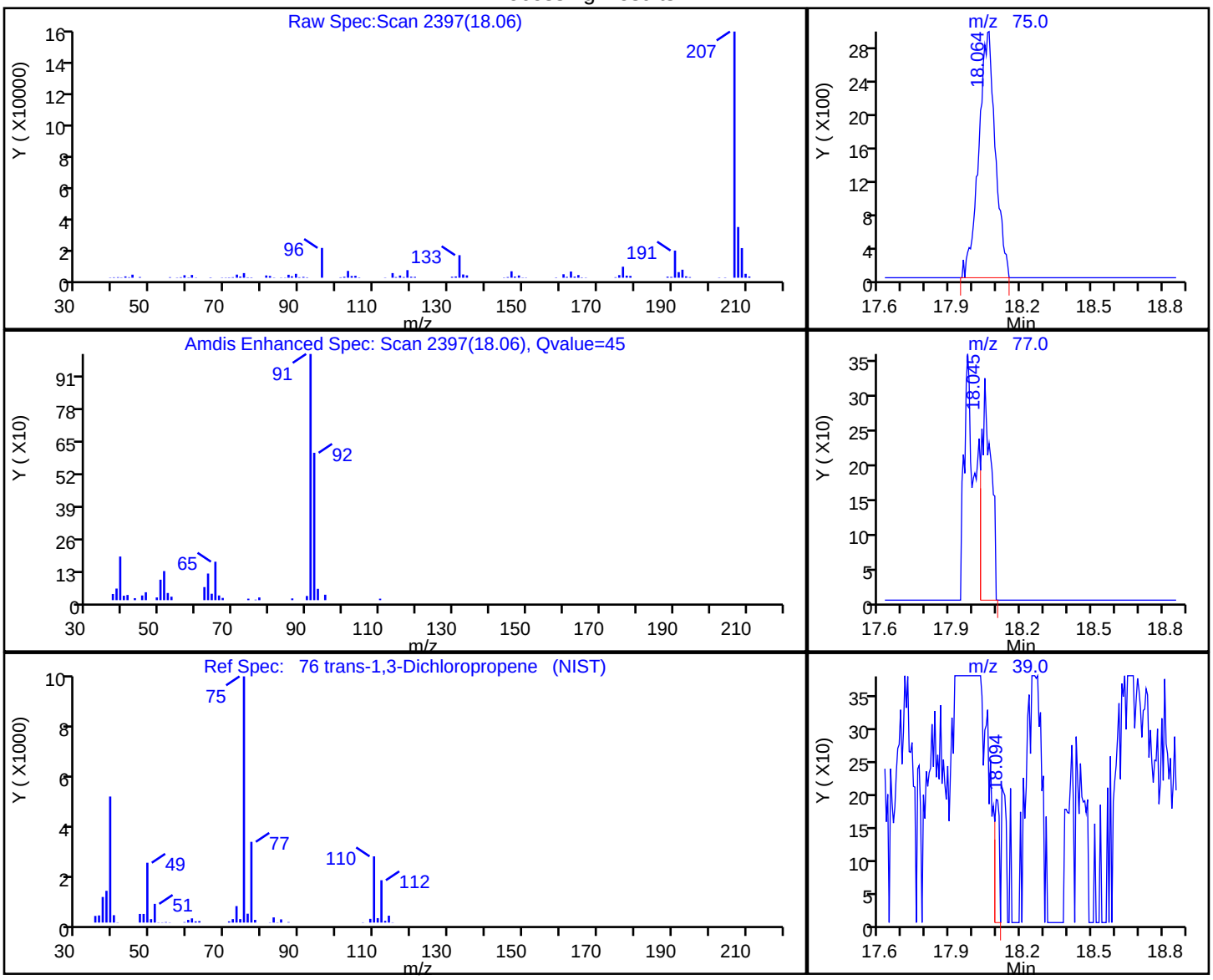
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040515.D				
Injection Date:	06-Apr-2018 00:01:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-16	Lab Sample ID:	320-37345-16		
Client ID:	786VMP-1_0318				
Operator ID:	LHS	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
18.06	75.00	14469	0.957793
18.05	77.00	862	
18.09	39.00	253	

Reviewer: phanthasena, 06-Apr-2018 14:54:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786VMP-2_0318 | Lab Sample ID: 320-37345-17

Matrix: Air | Lab File ID: MS7040516.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:35

Sample wt/vol: 381(mL) | Date Analyzed: 04/06/2018 00:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	9.8		1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.9	J	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	3.0	J	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	1.1	J	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.6	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U M	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	0.97	J M	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	11	J	12	0.95	0.42
71-43-2	Benzene	0.64	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	0.49	J	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	4.2		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	27		1.5	0.98	0.46
74-87-3	Chloromethane	1.7		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786VMP-2_0318 Lab Sample ID: 320-37345-17

Matrix: Air Lab File ID: MS7040516.D

Analysis Method: TO-15 Date Collected: 03/21/2018 16:35

Sample wt/vol: 381(mL) Date Analyzed: 04/06/2018 00:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.1	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	5.5		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.49	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	33		3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U M	10	6.3	2.9
95-47-6	o-Xylene	11		1.7	0.87	0.23
100-42-5	Styrene	0.85	U M	1.7	0.85	0.25
127-18-4	Tetrachloroethene	2.2	J	2.7	1.4	0.35
108-88-3	Toluene	0.77	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	200		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	3.2	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D
Lims ID: 320-37345-A-17
Client ID: 786VMP-2_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 00:57:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-17
Misc. Info.: 381 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 16:05:33 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 16:05:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.254	12.223	0.031	92	30625	4.00	
* 2 1,4-Difluorobenzene	114	14.407	14.383	0.024	97	134517	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.063	0.006	91	137046	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.452	13.451	0.024	96	55946	4.41	
$ 5 Toluene-d8 (Surr)	100	17.802	17.814	0.018	97	90661	3.87	
$ 6 4-Bromofluorobenzene (Surr	95	23.612	23.612	0.006	86	104066	4.09	
13 Dichlorodifluoromethane	85	3.937	3.915	0.030	68	5206	0.4217	
16 Chloromethane	50	4.400	4.366	0.043	99	5470	0.8265	
26 Trichlorofluoromethane	101	6.426	6.402	0.037	97	9496	0.5617	
32 Acetone	43	7.350	7.316	0.048	100	64421	4.48	
33 1,1,2-Trichloro-1,2,2-trif	101	7.502	7.487	0.030	90	7096	0.5108	
39 Methylene Chloride	49	8.695	8.675	0.037	76	1643	0.1399	
40 Carbon disulfide	76	8.743	8.724	0.036	95	19588	1.36	
48 2-Butanone (MEK)	72	11.232	11.193	0.061	93	2178	0.5565	
53 Chloroform	83	11.980	11.979	0.024	94	86799	5.58	
55 1,1,1-Trichloroethane	97	12.917	12.924	0.018	96	30775	1.80	
59 Carbon tetrachloride	117	13.513	13.505	0.030	61	1433	0.0754	
63 Benzene	78	13.781	13.780	0.025	88	5092	0.2018	
65 Trichloroethene	130	15.168	15.175	0.018	95	459685	38.0	
68 Dichlorobromomethane	85	15.928	15.943	0.012	92	918	0.0731	
75 Toluene	91	17.978	17.990	0.018	92	7283	0.2051	
80 Tetrachloroethene	166	19.487	19.474	0.018	91	5652	0.3174	
86 Ethylbenzene	91	21.318	21.318	0.006	99	60865	1.27	
87 m-Xylene & p-Xylene	91	21.507	21.501	0.012	98	285347	7.69	
88 o-Xylene	91	22.407	22.407	0.006	98	92198	2.50	
102 4-Ethyltoluene	120	24.263	24.263	0.000	97	3081	0.1982	M
104 1,3,5-Trimethylbenzene	120	24.360	24.367	0.000	90	5005	0.2189	
107 1,2,4-Trimethylbenzene	120	25.157	25.158	0.006	98	12747	0.6140	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

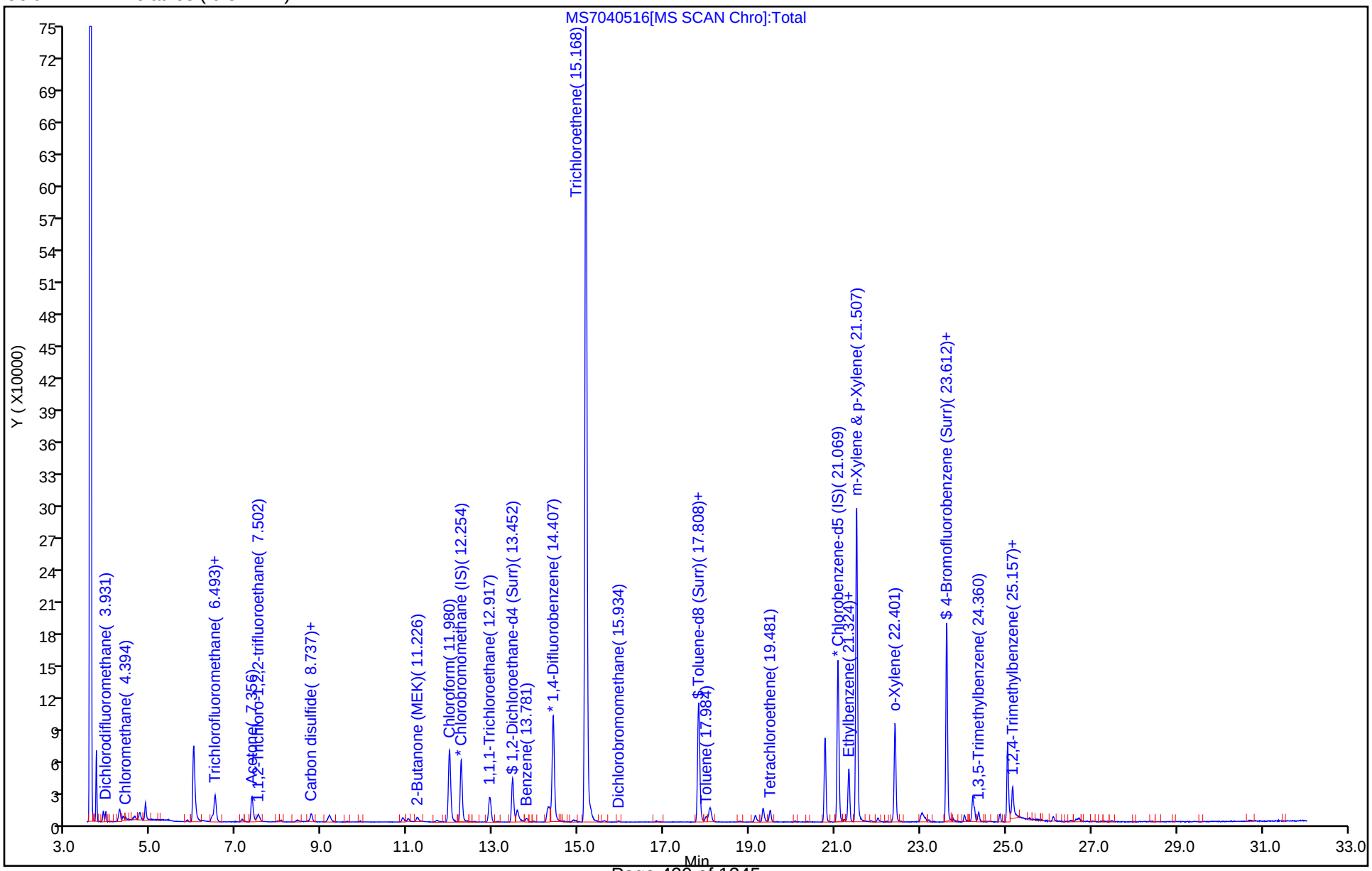
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17	Worklist Smp#:	14
Client ID:	786VMP-2_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D
Lims ID: 320-37345-A-17
Client ID: 786VMP-2_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 00:57:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-17
Misc. Info.: 381 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 16:05:33 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 16:05:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.41	110.25
$ 5 Toluene-d8 (Surr)	4.00	3.87	96.73
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.09	102.19

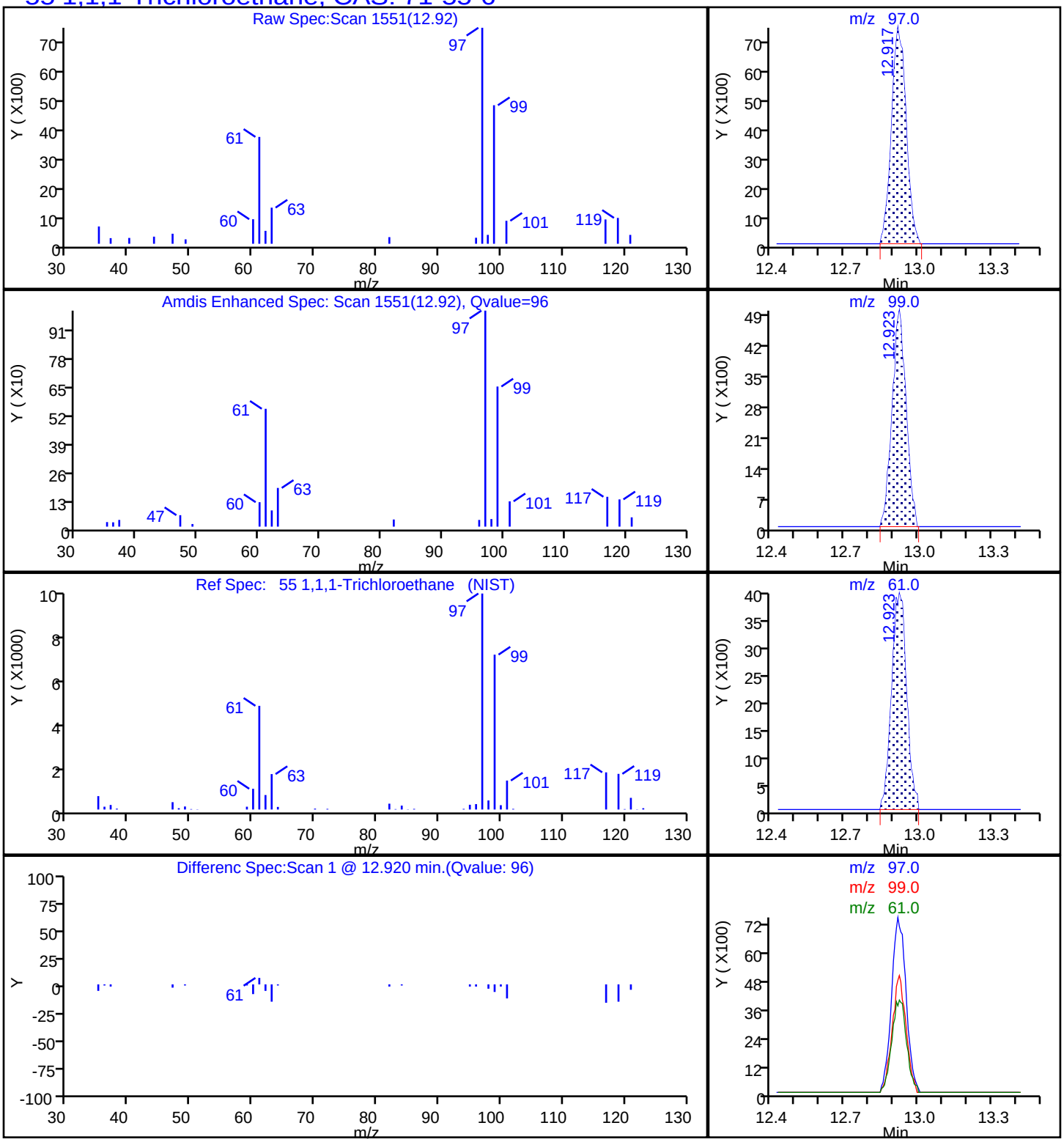
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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



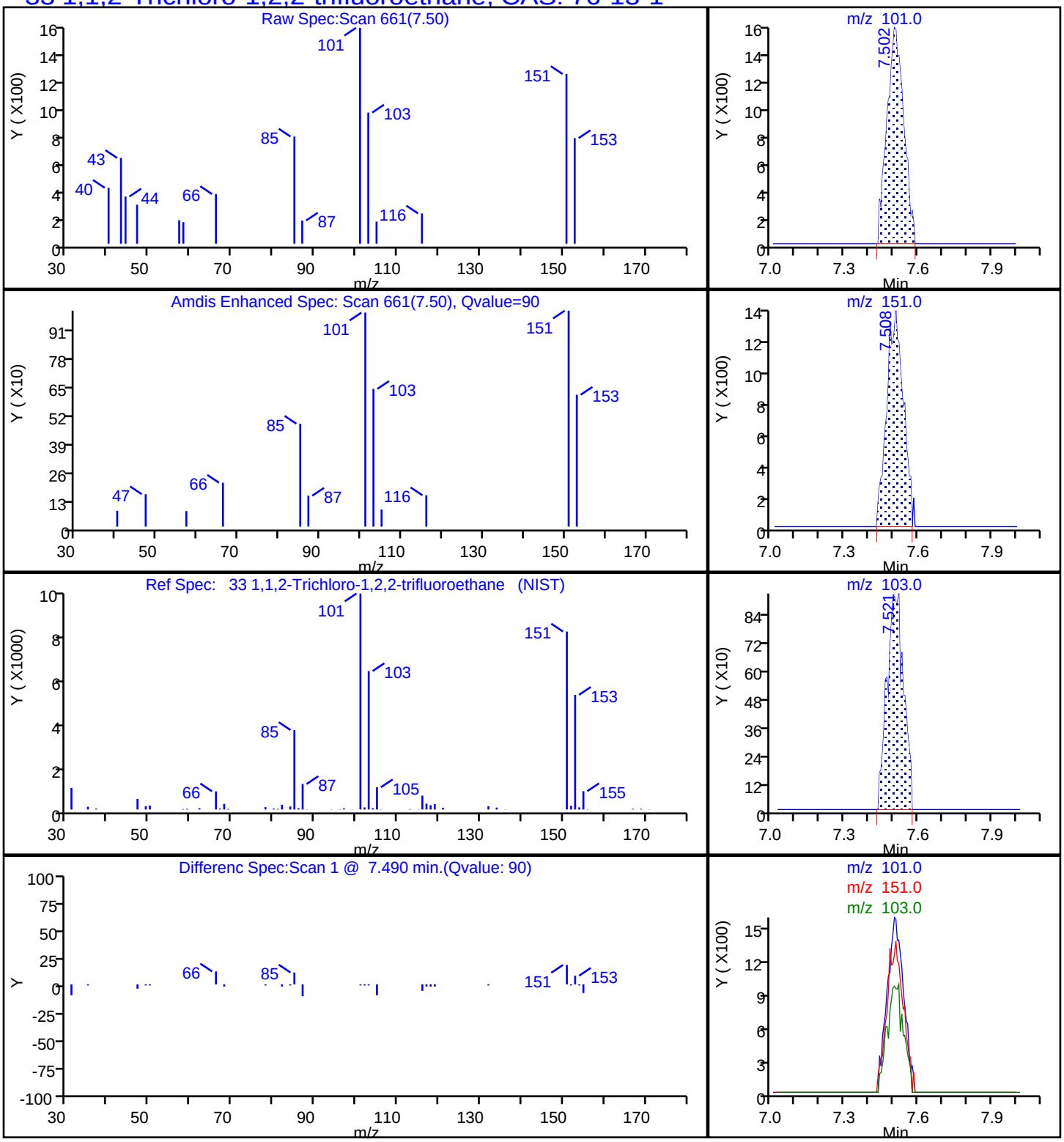
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



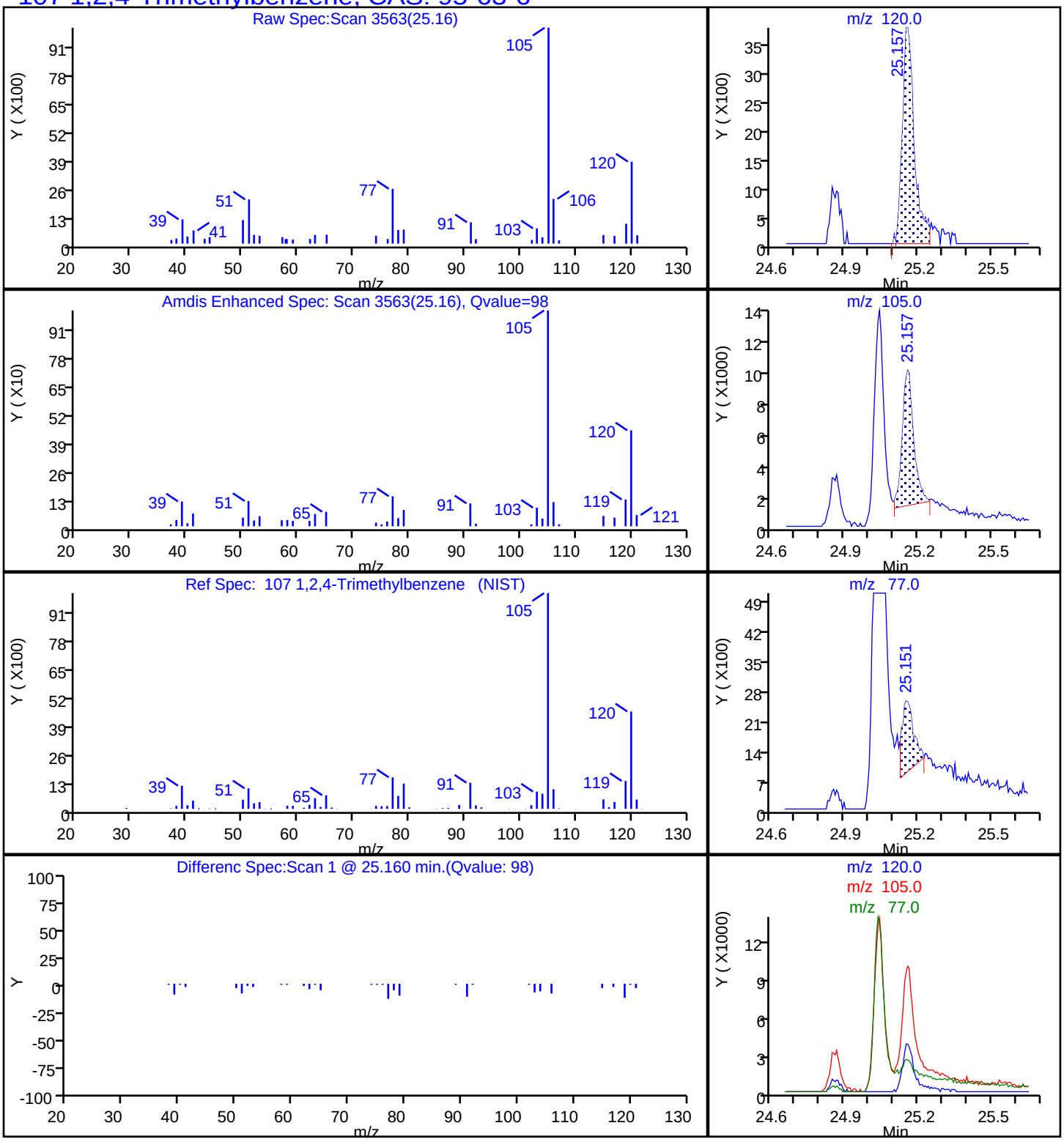
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

107 1,2,4-Trimethylbenzene, CAS: 95-63-6



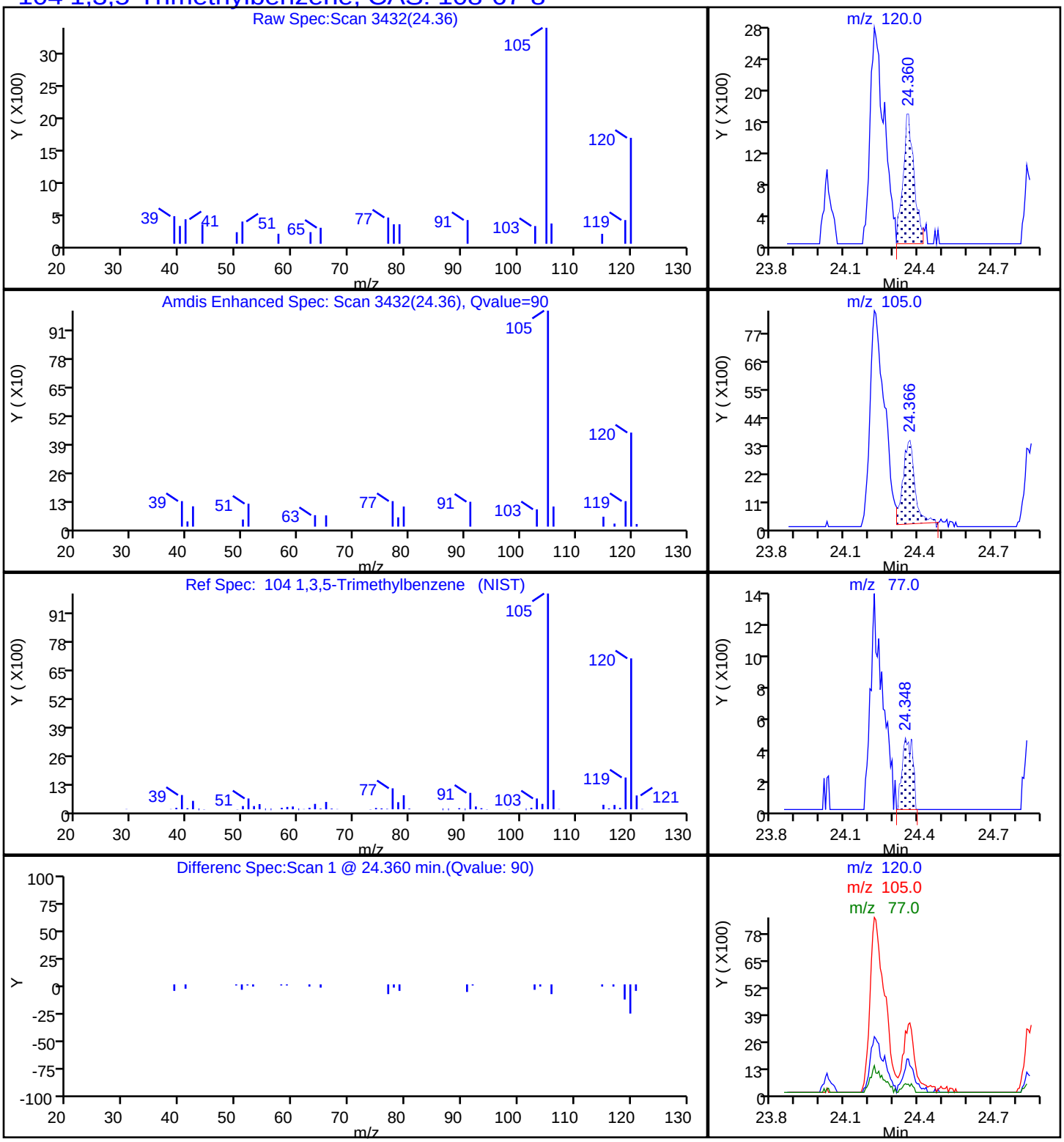
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

104 1,3,5-Trimethylbenzene, CAS: 108-67-8



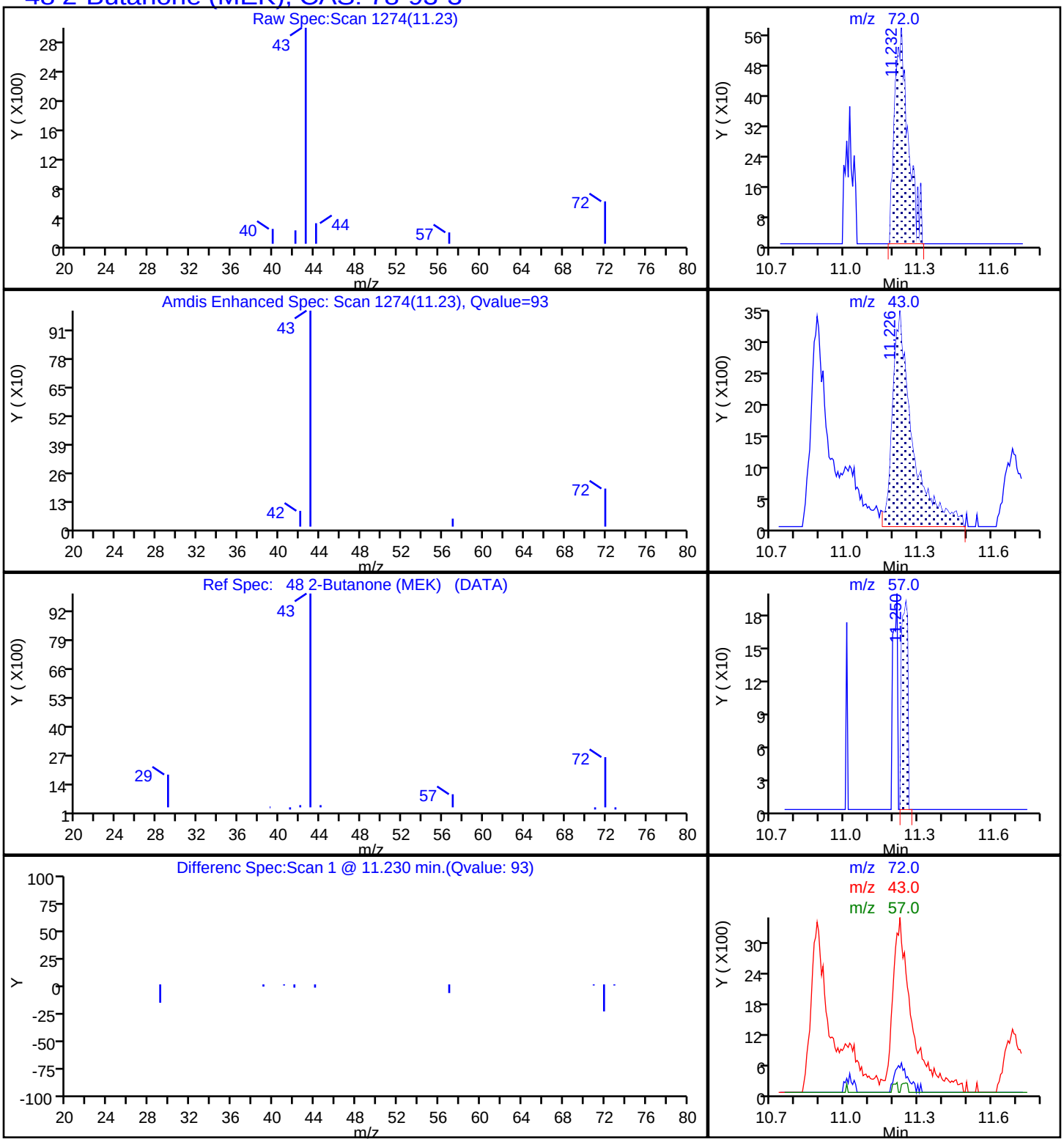
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



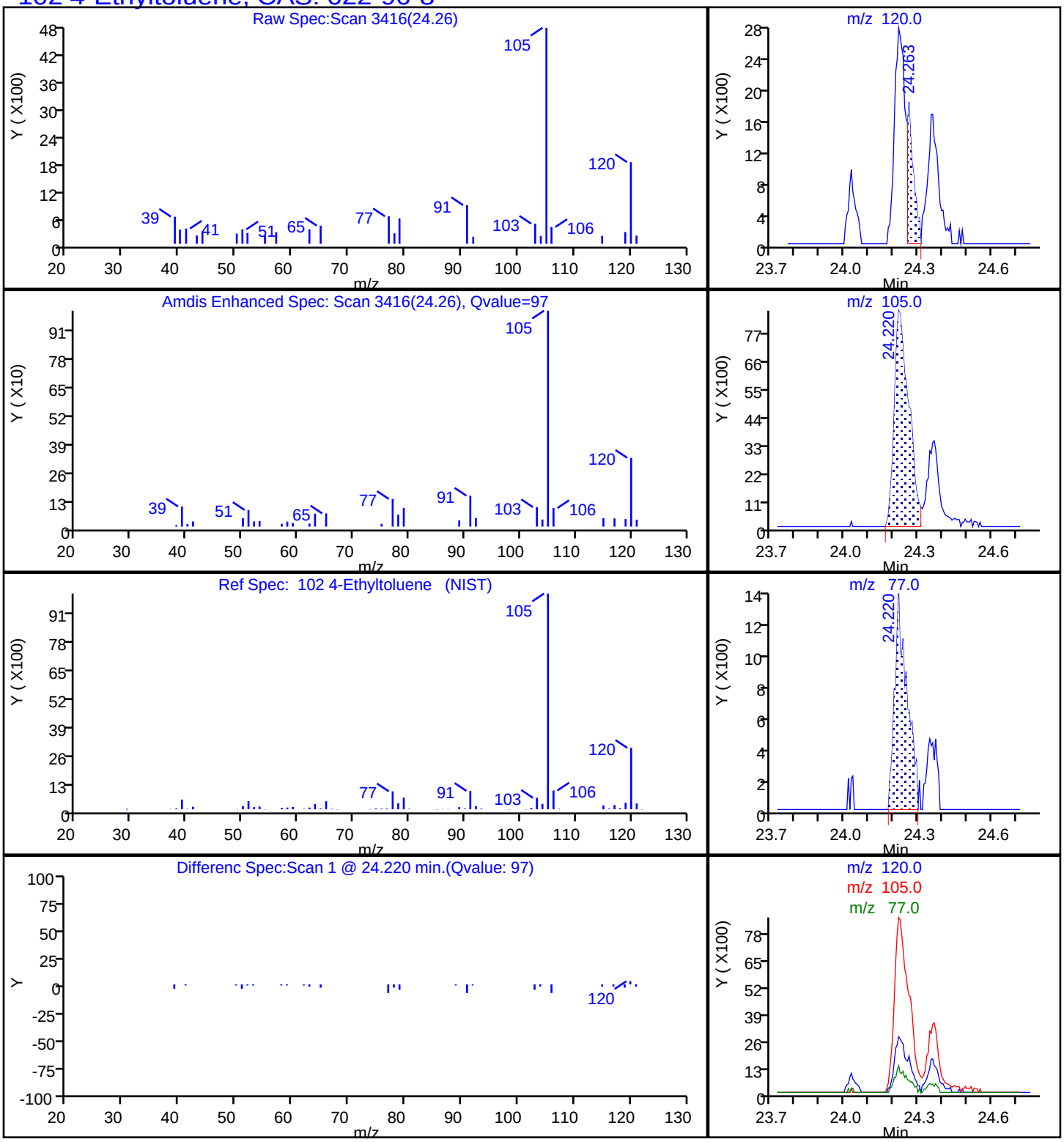
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

102 4-Ethyltoluene, CAS: 622-96-8



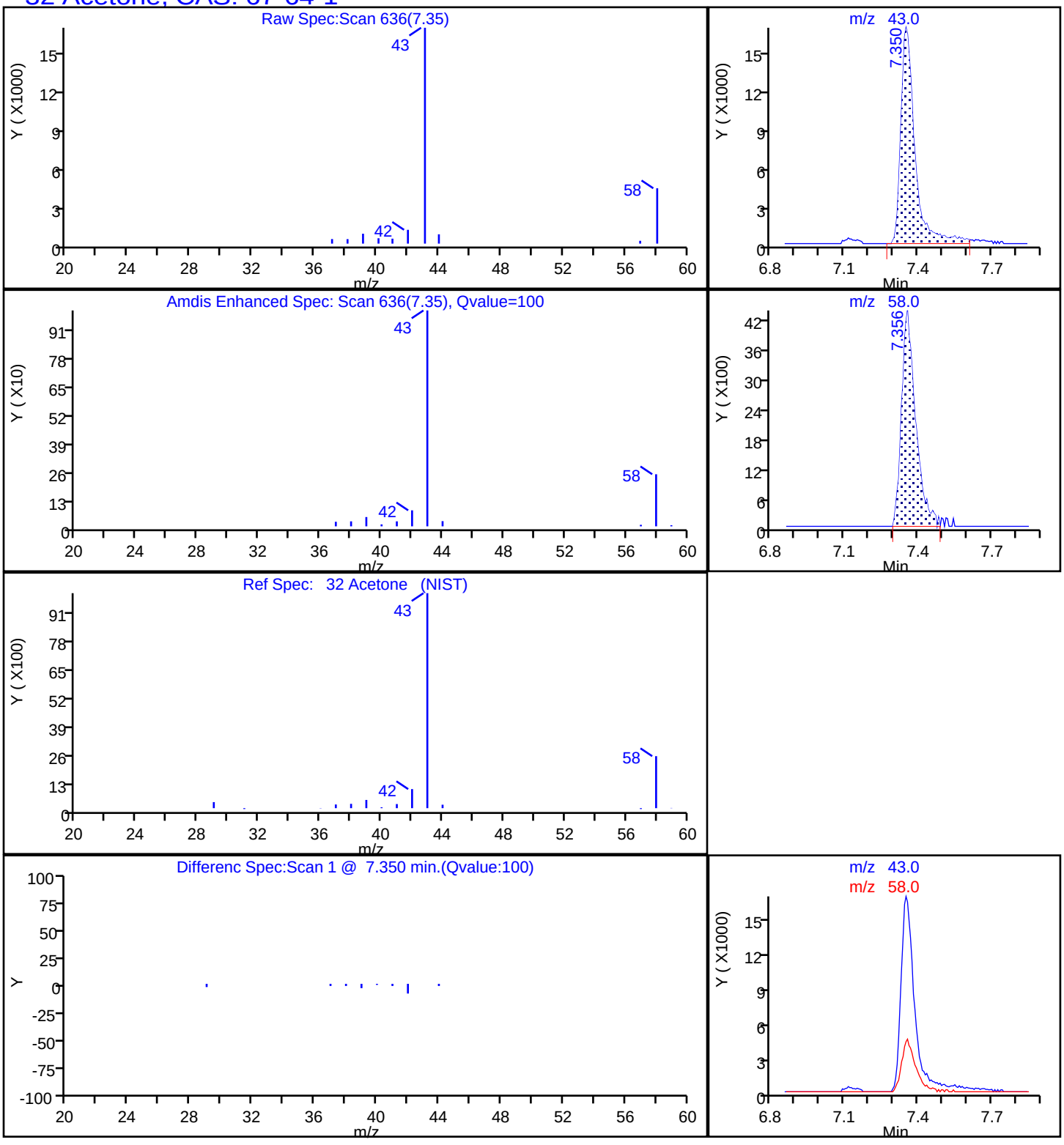
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1



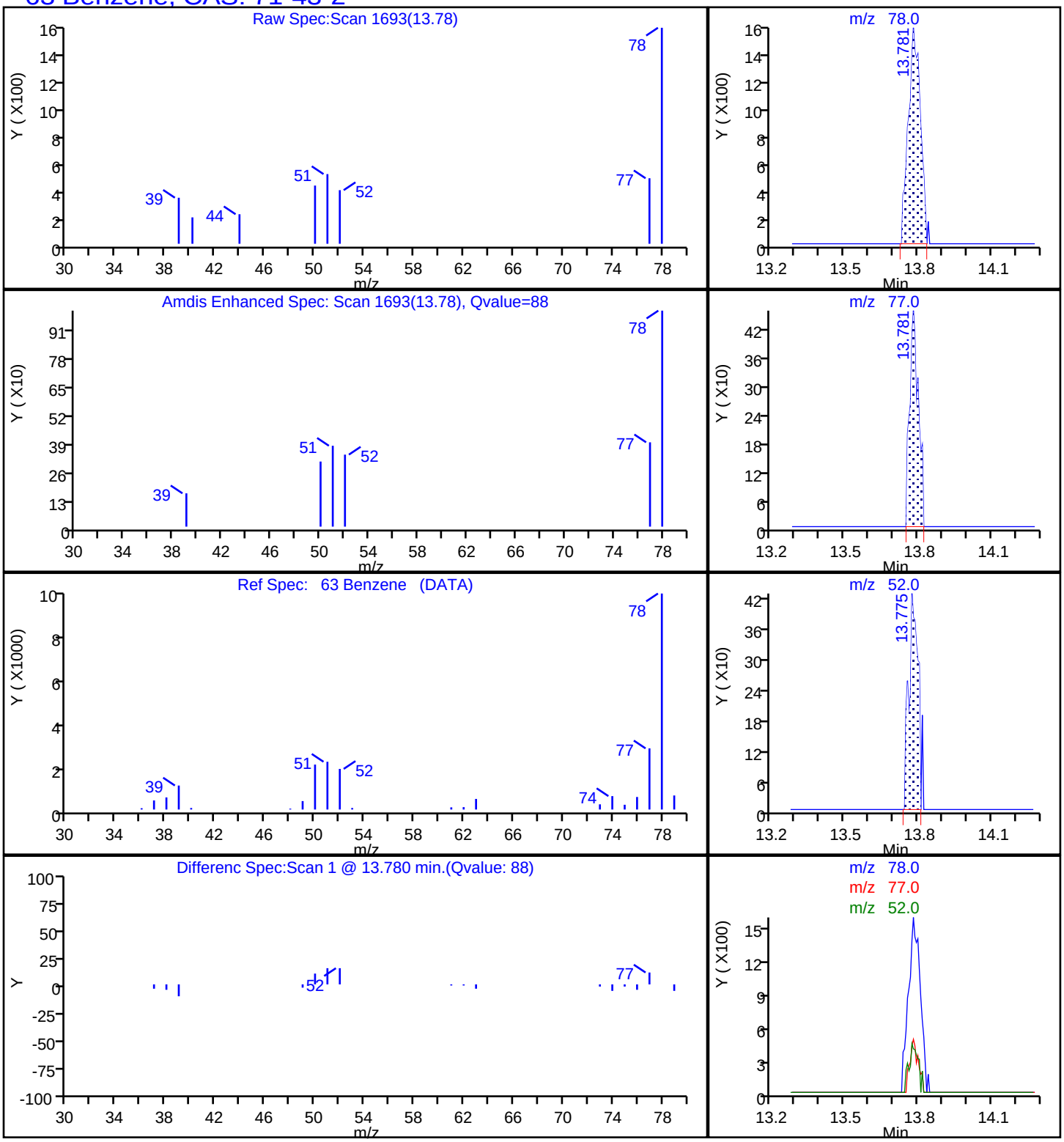
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



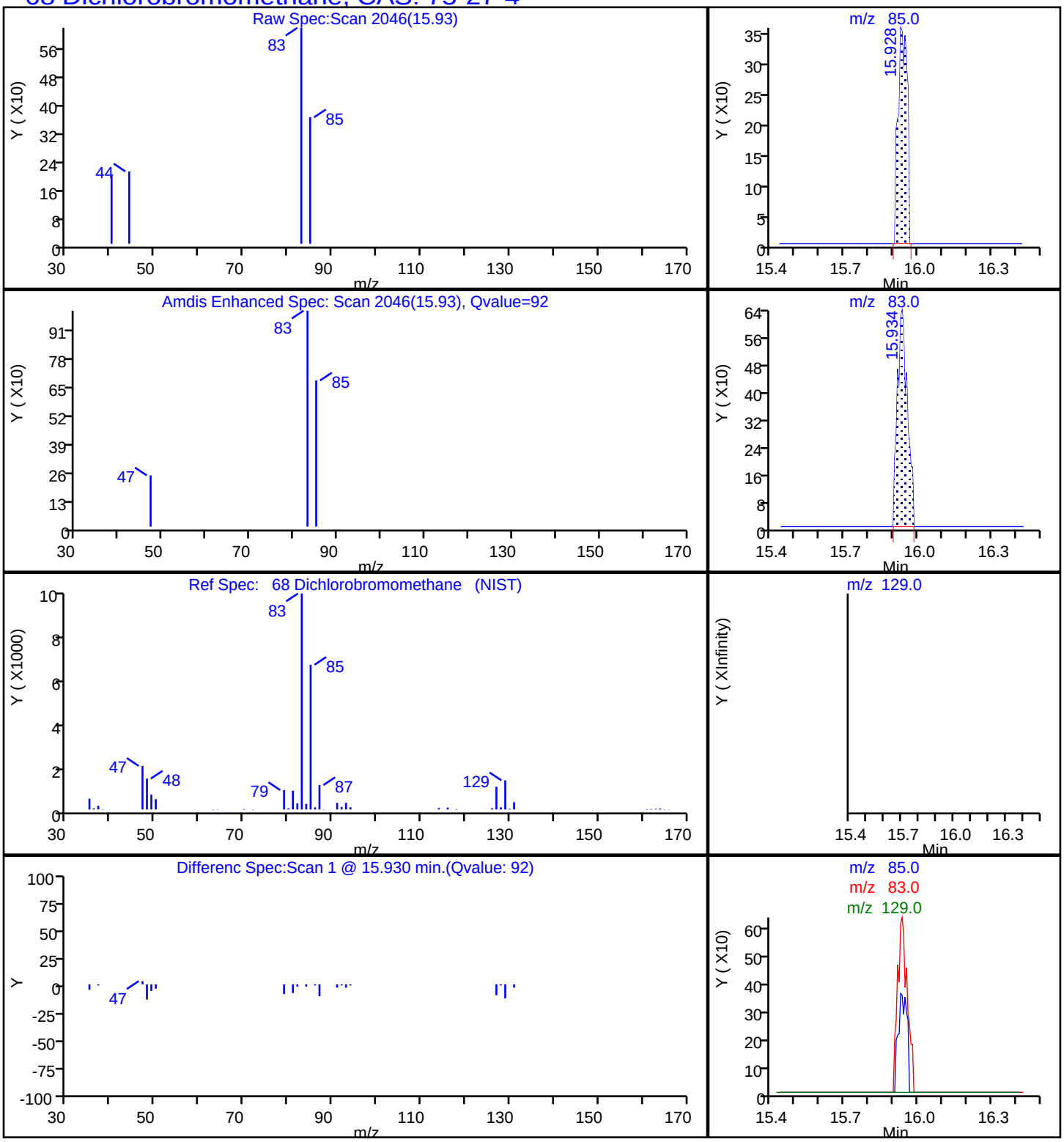
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

68 Dichlorobromomethane, CAS: 75-27-4



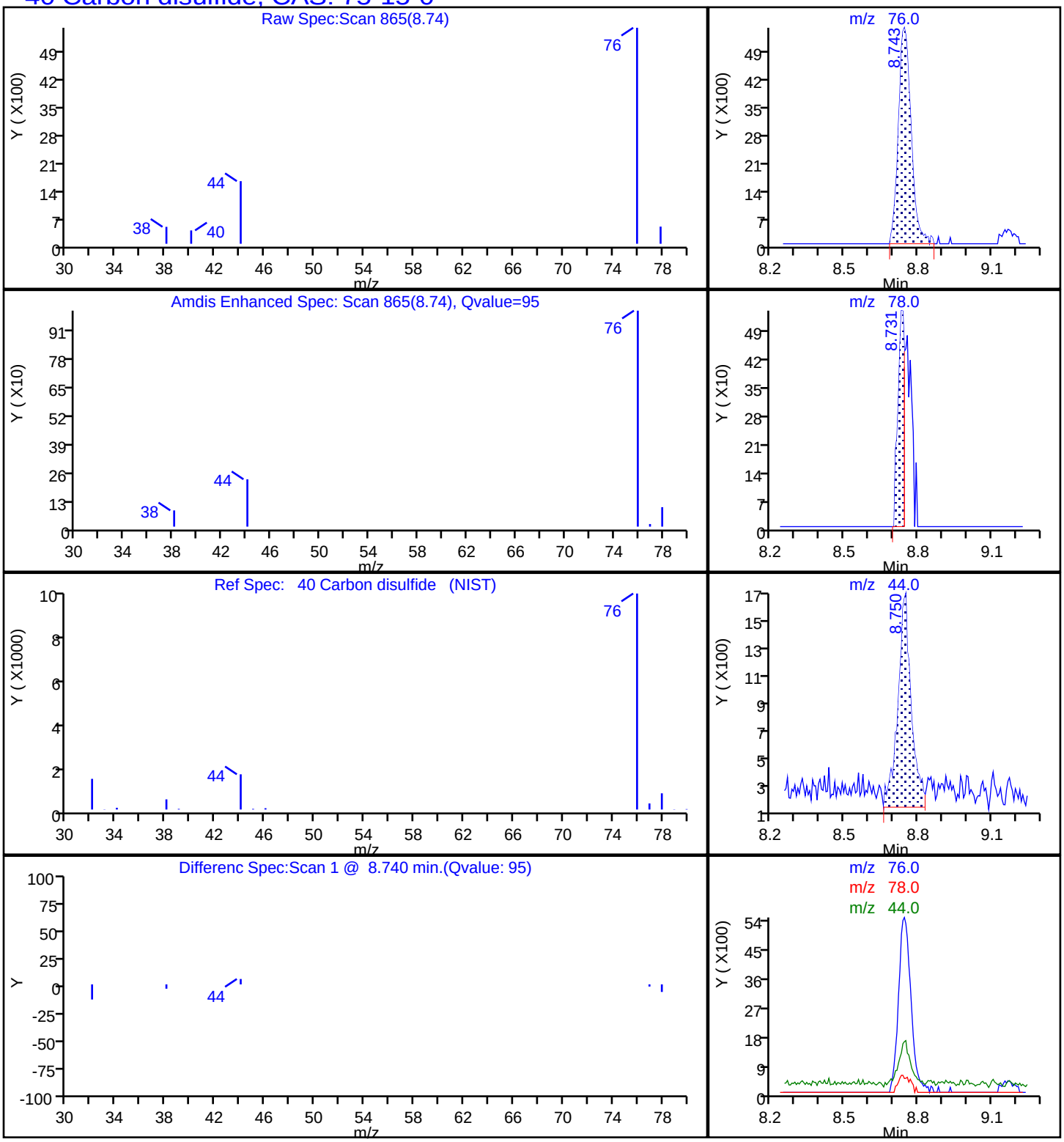
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

40 Carbon disulfide, CAS: 75-15-0



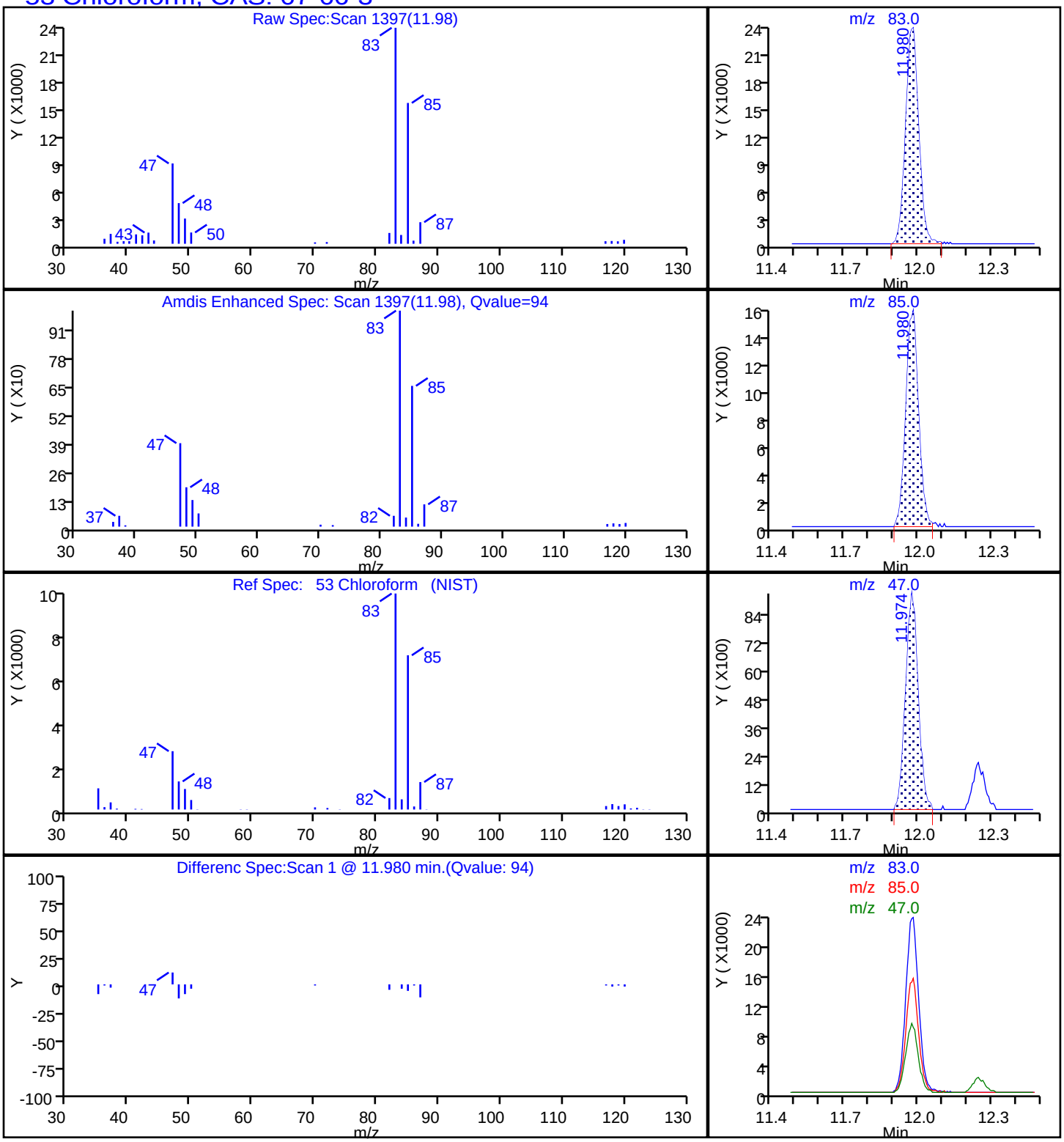
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



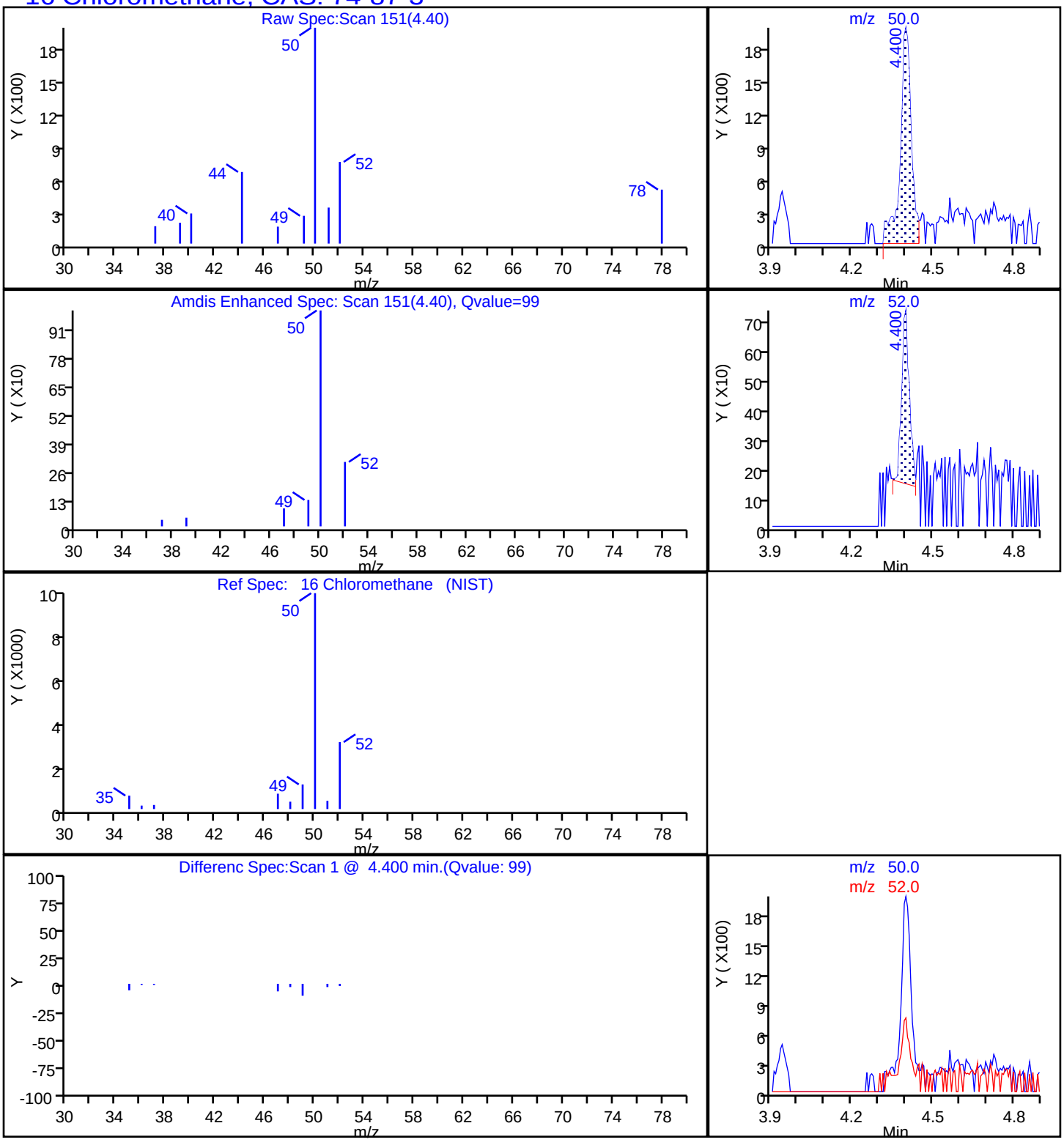
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

16 Chloromethane, CAS: 74-87-3



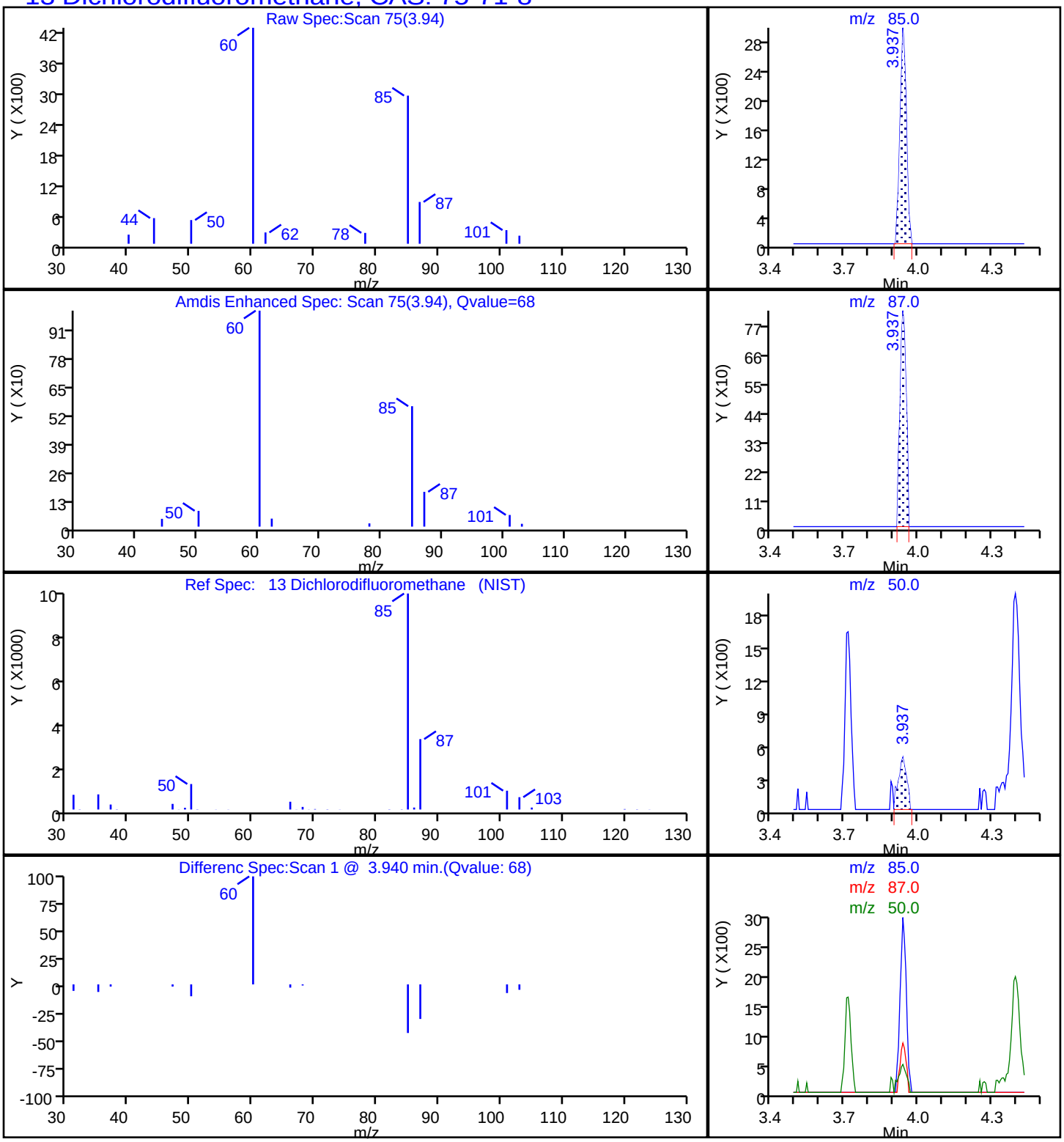
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



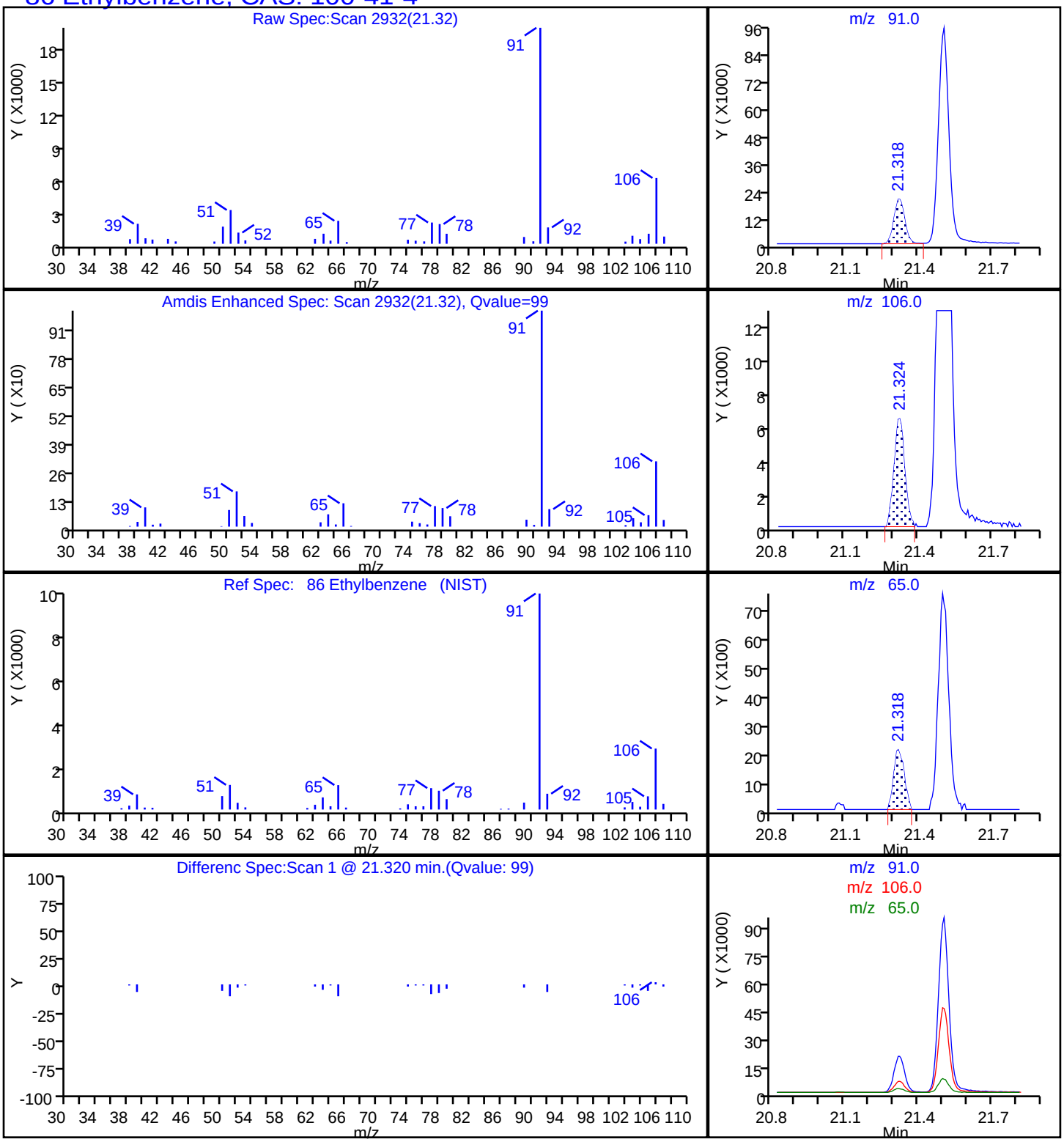
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



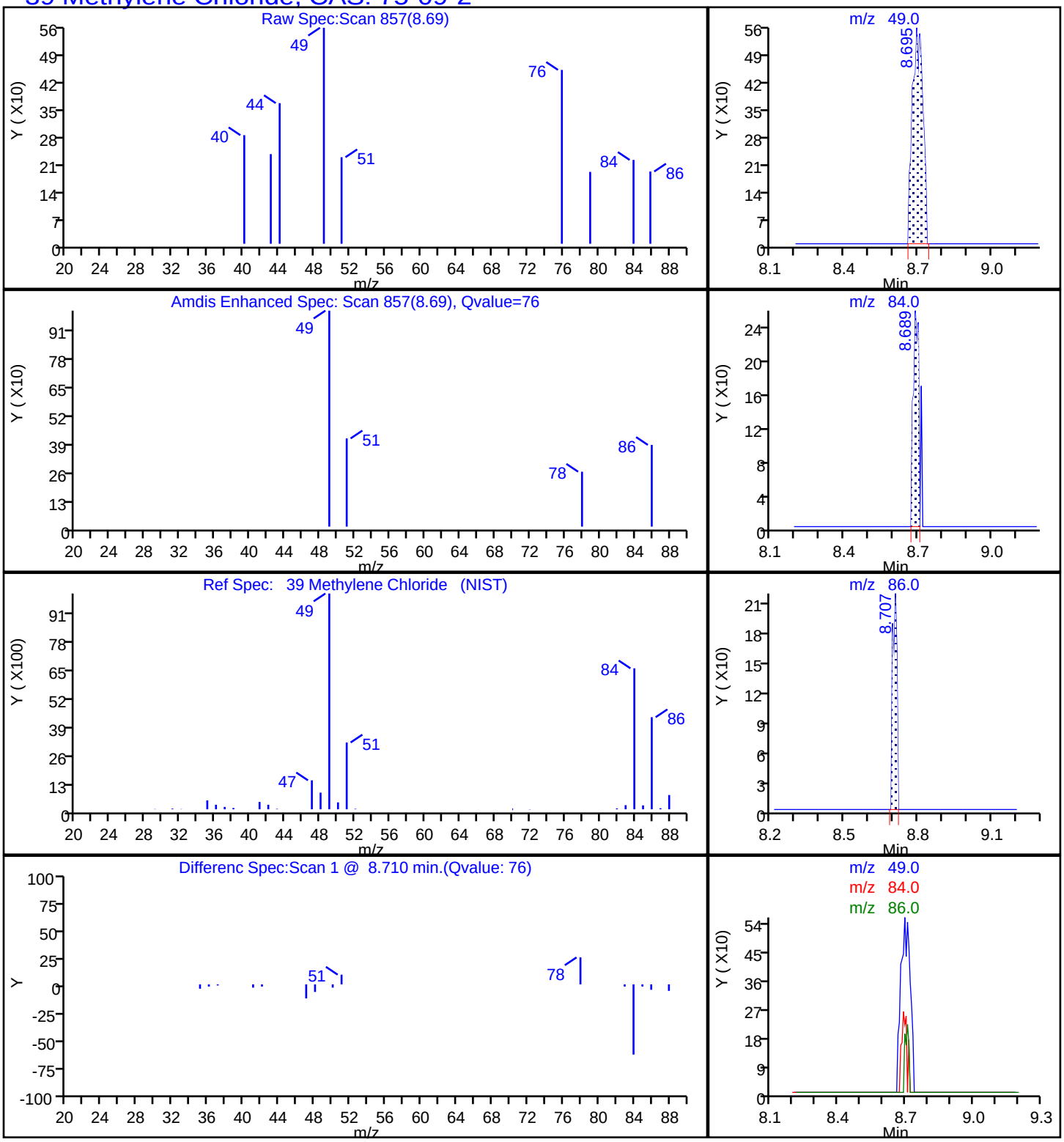
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



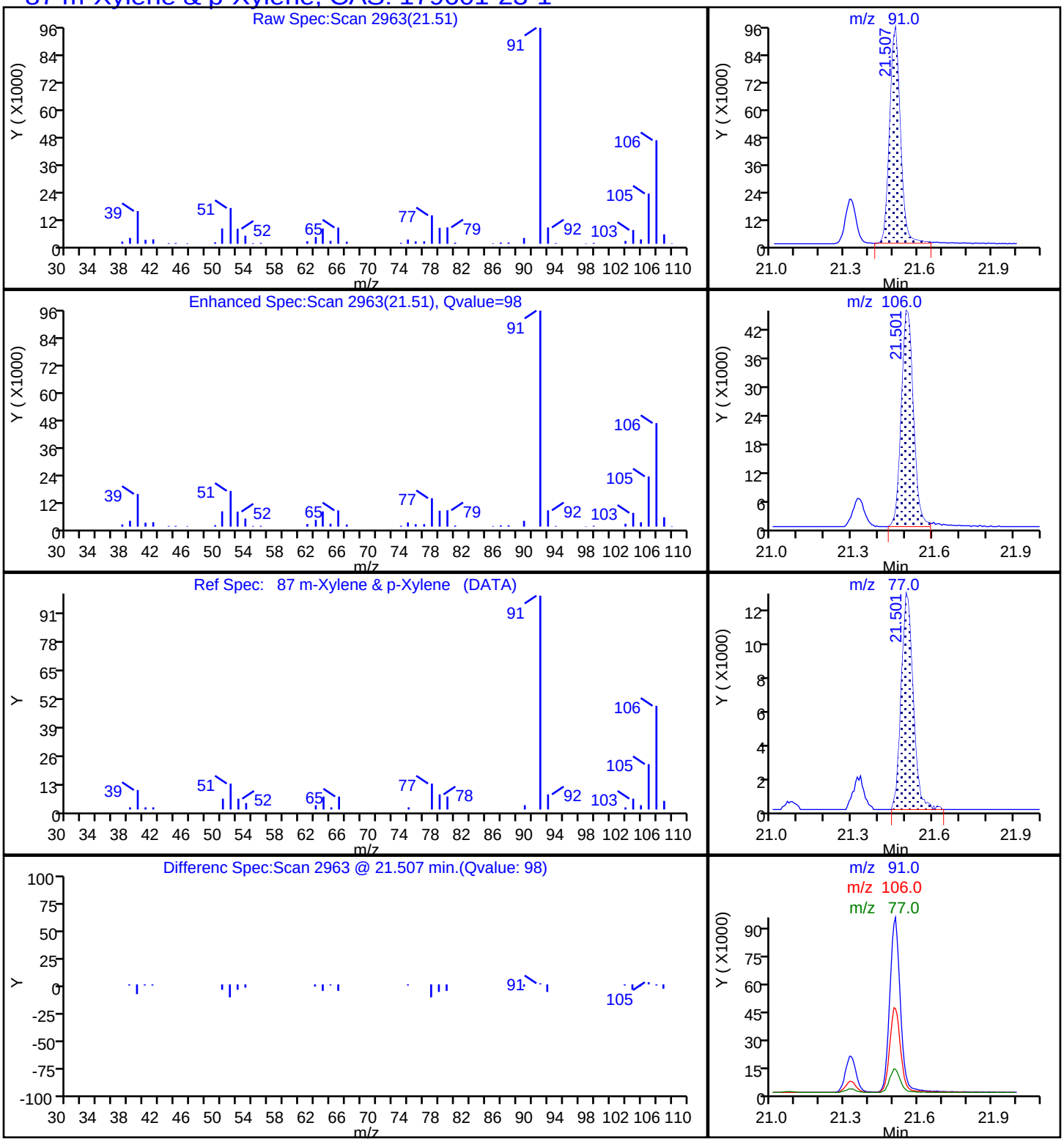
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1



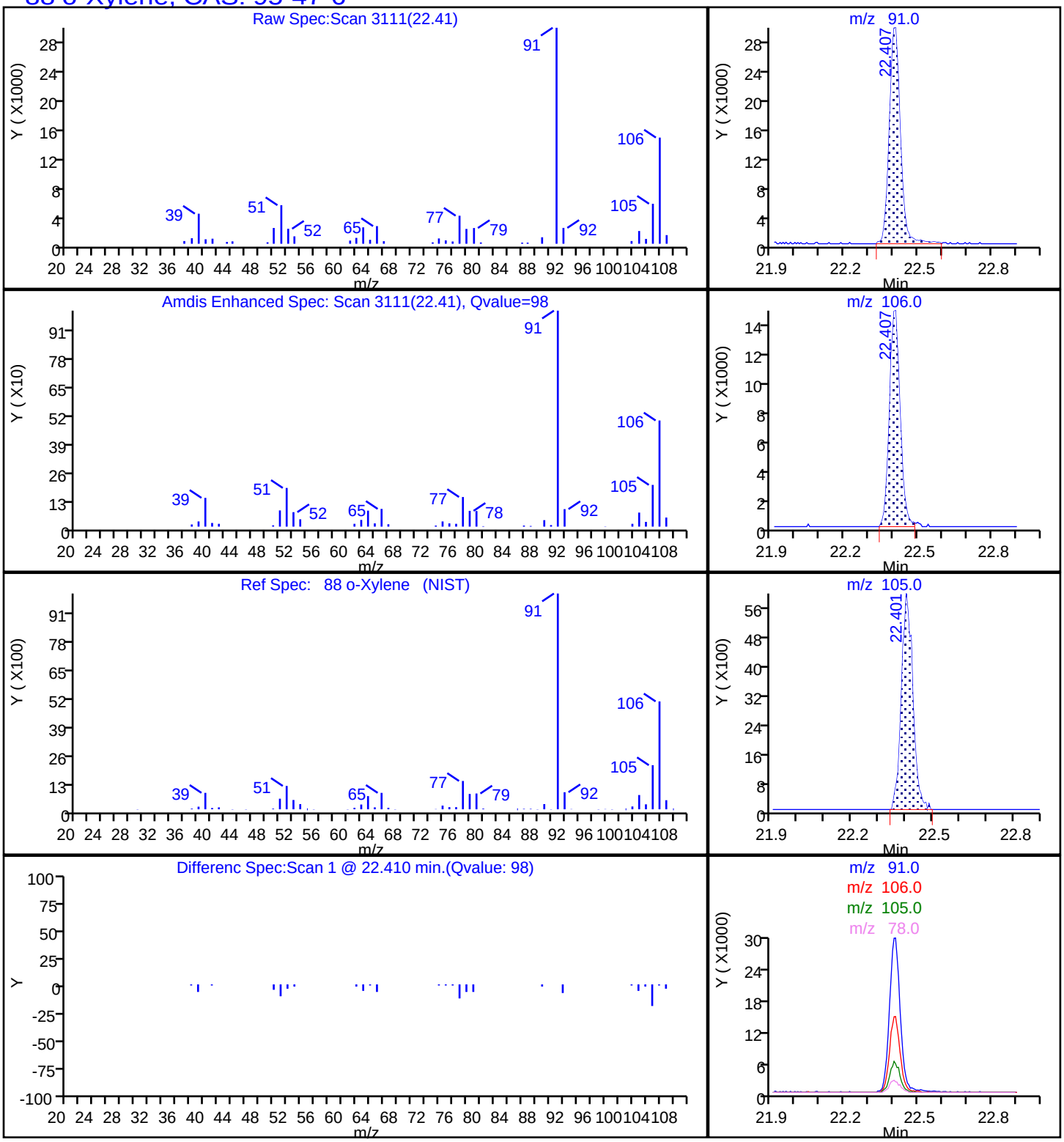
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



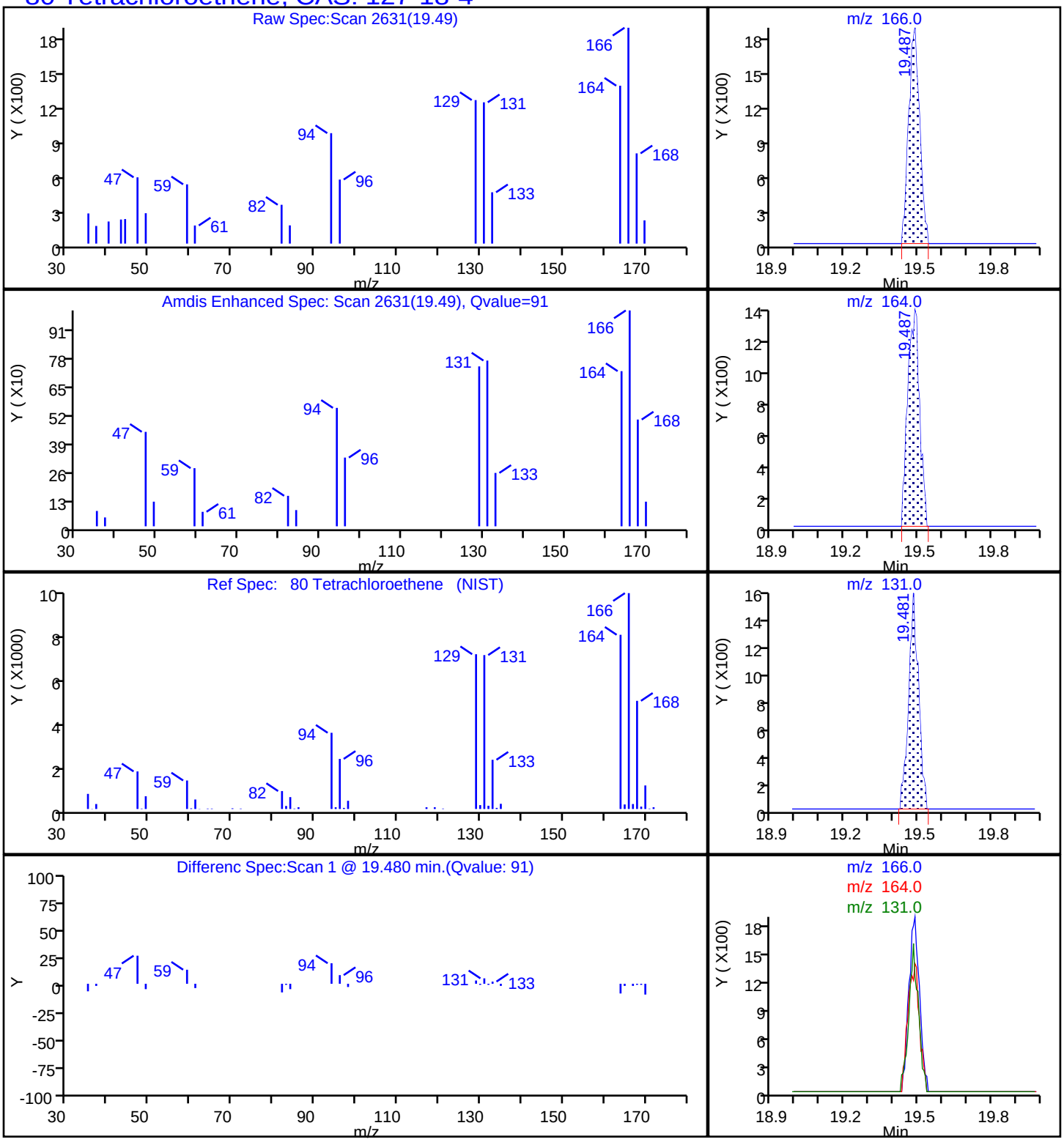
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



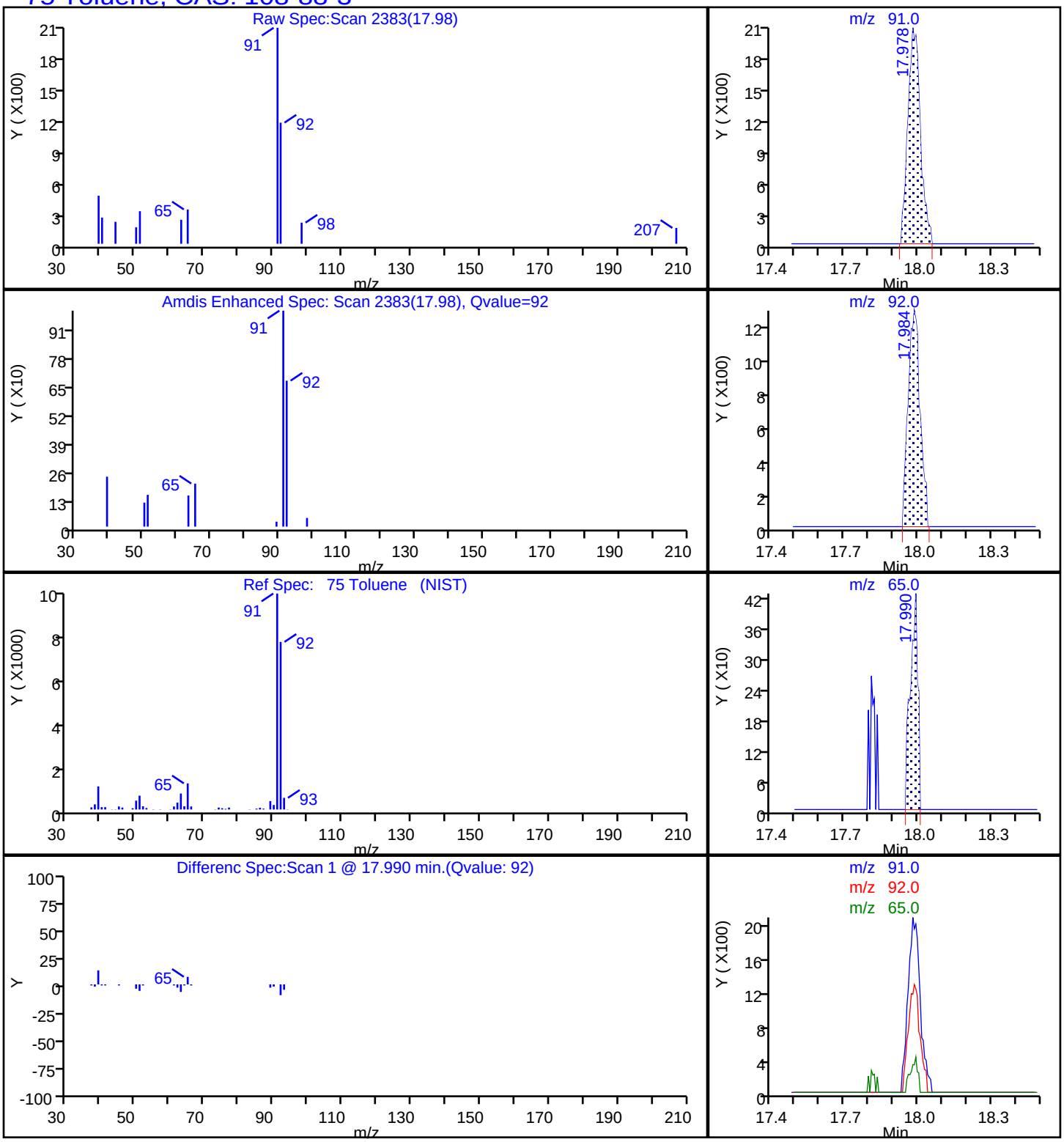
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



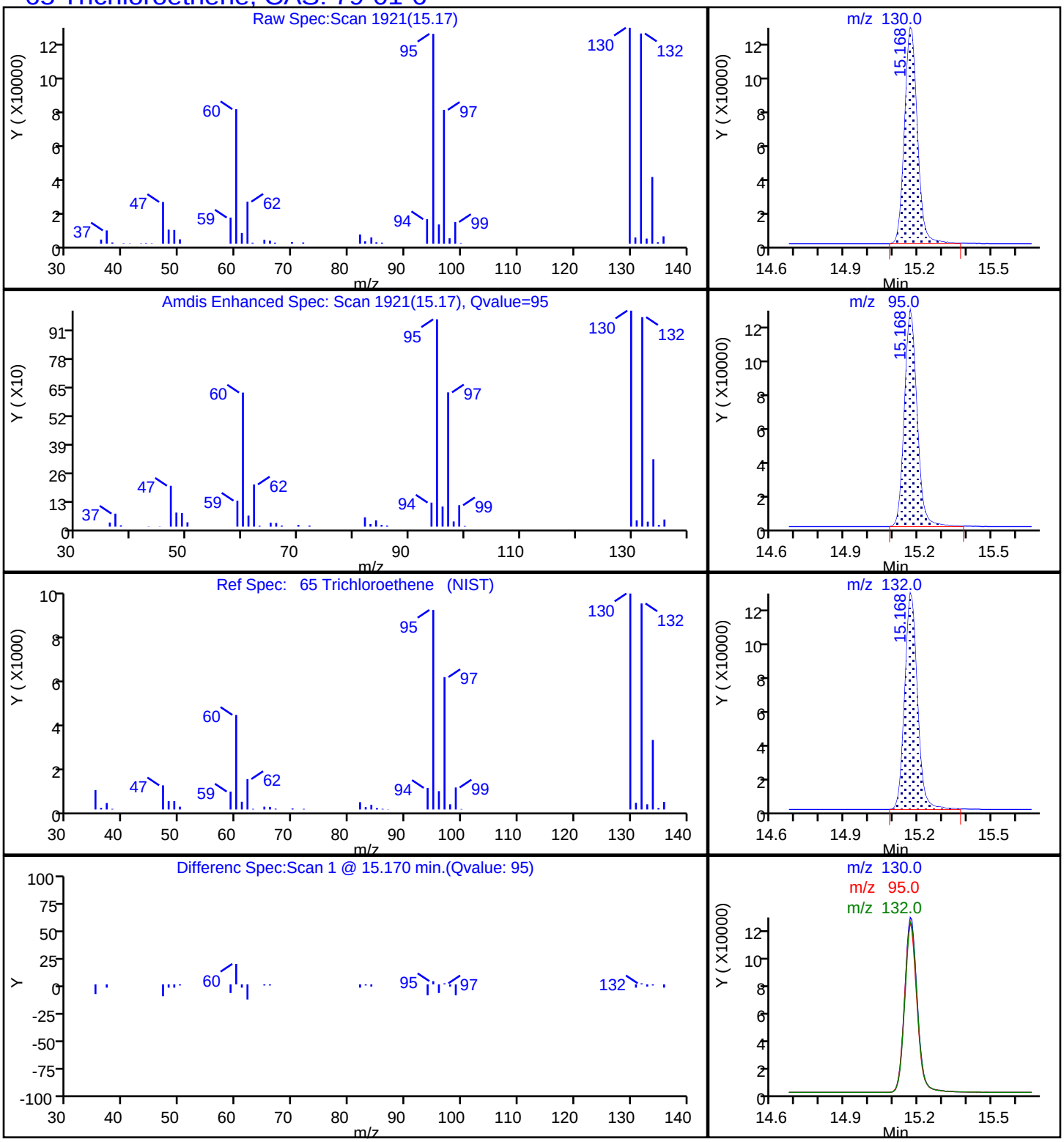
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



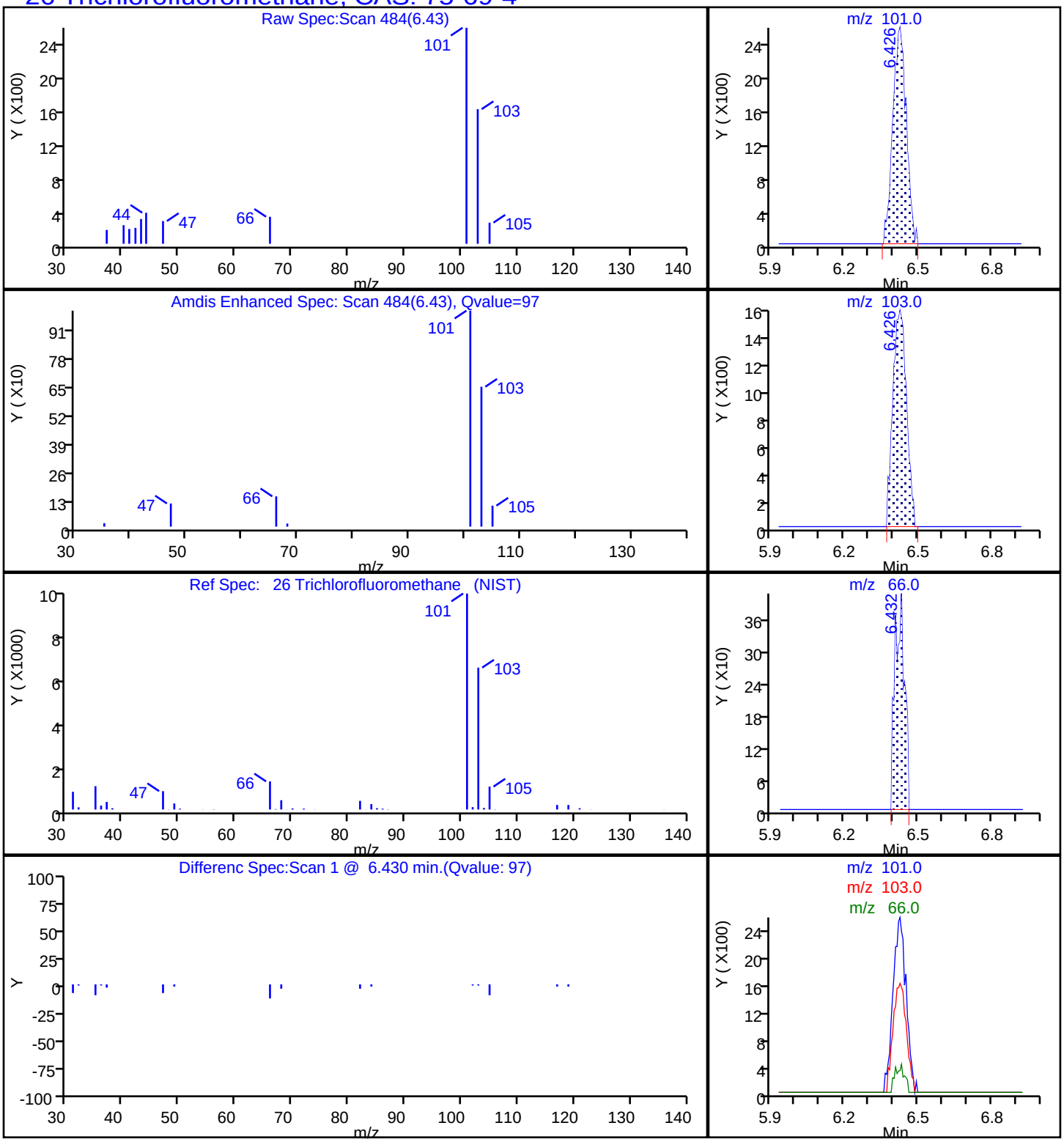
Report Date: 06-Apr-2018 16:05:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D

Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17
Client ID:	786VMP-2_0318		
Operator ID:	LHS	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



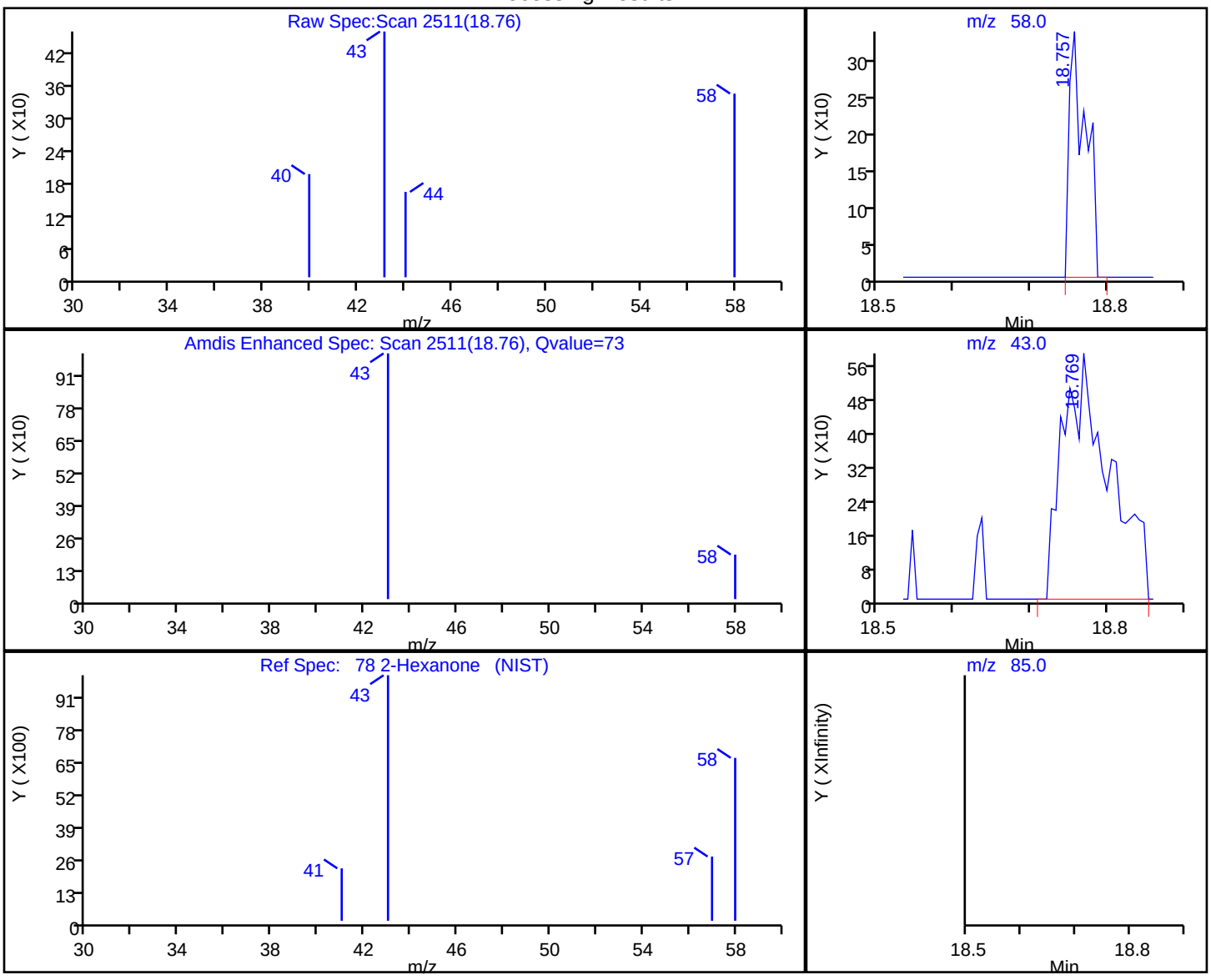
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D				
Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
18.76	58.00	510	0.030588
18.77	43.00	2466	
18.70	85.00	0	

Reviewer: phanthasena, 06-Apr-2018 16:05:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

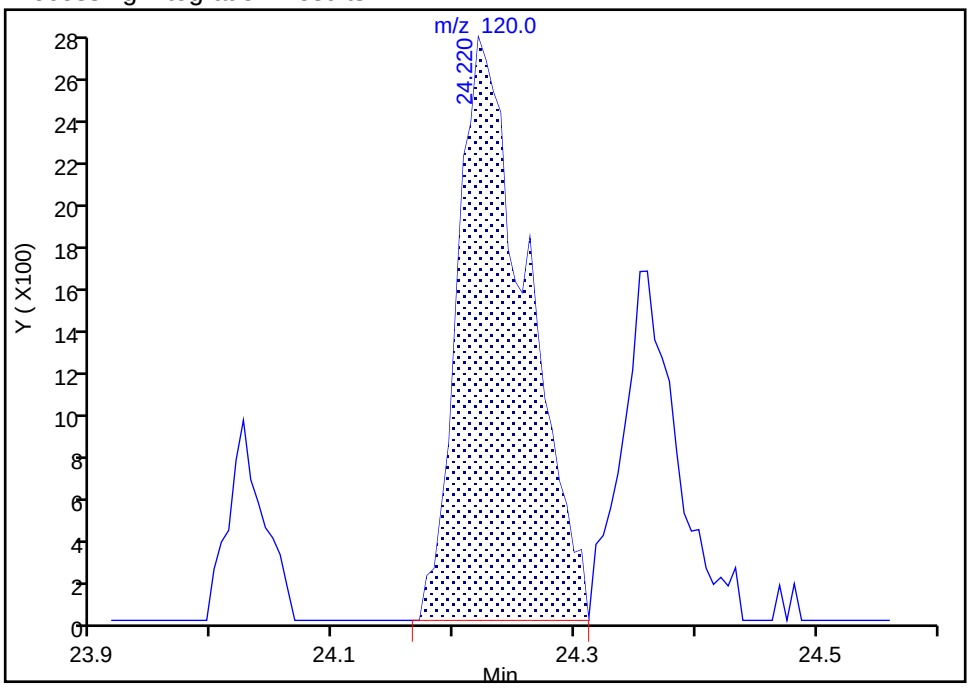
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D				
Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

102 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

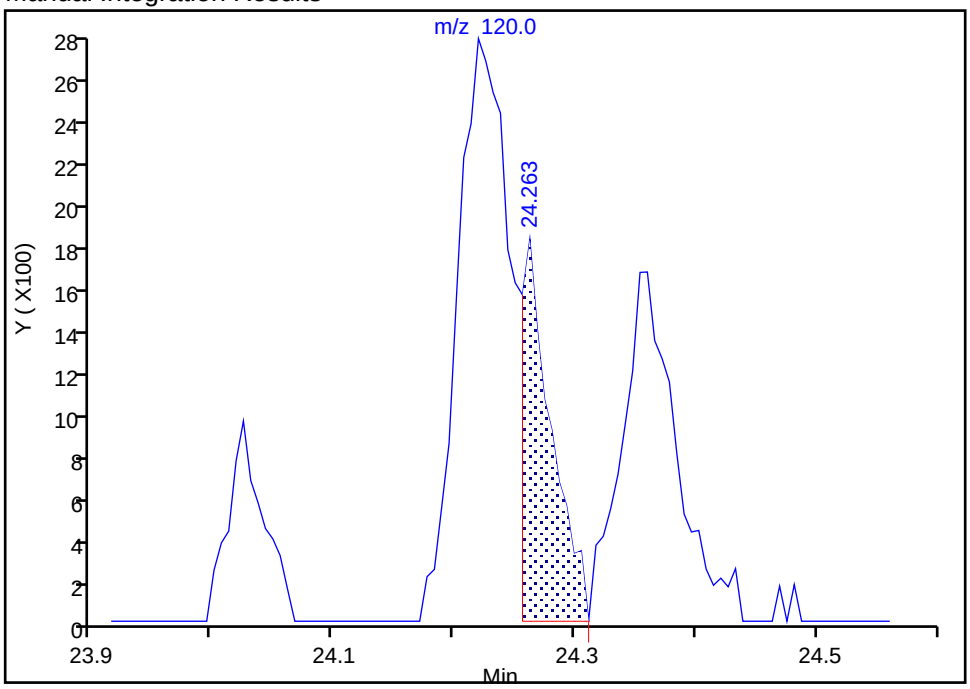
Processing Integration Results

RT: 24.22
Area: 10858
Amount: 0.698460
Amount Units: ppb v/v



Manual Integration Results

RT: 24.26
Area: 3081
Amount: 0.198191
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 16:05:19

Audit Action: Assigned New Baseline Audit Reason: Split Peak

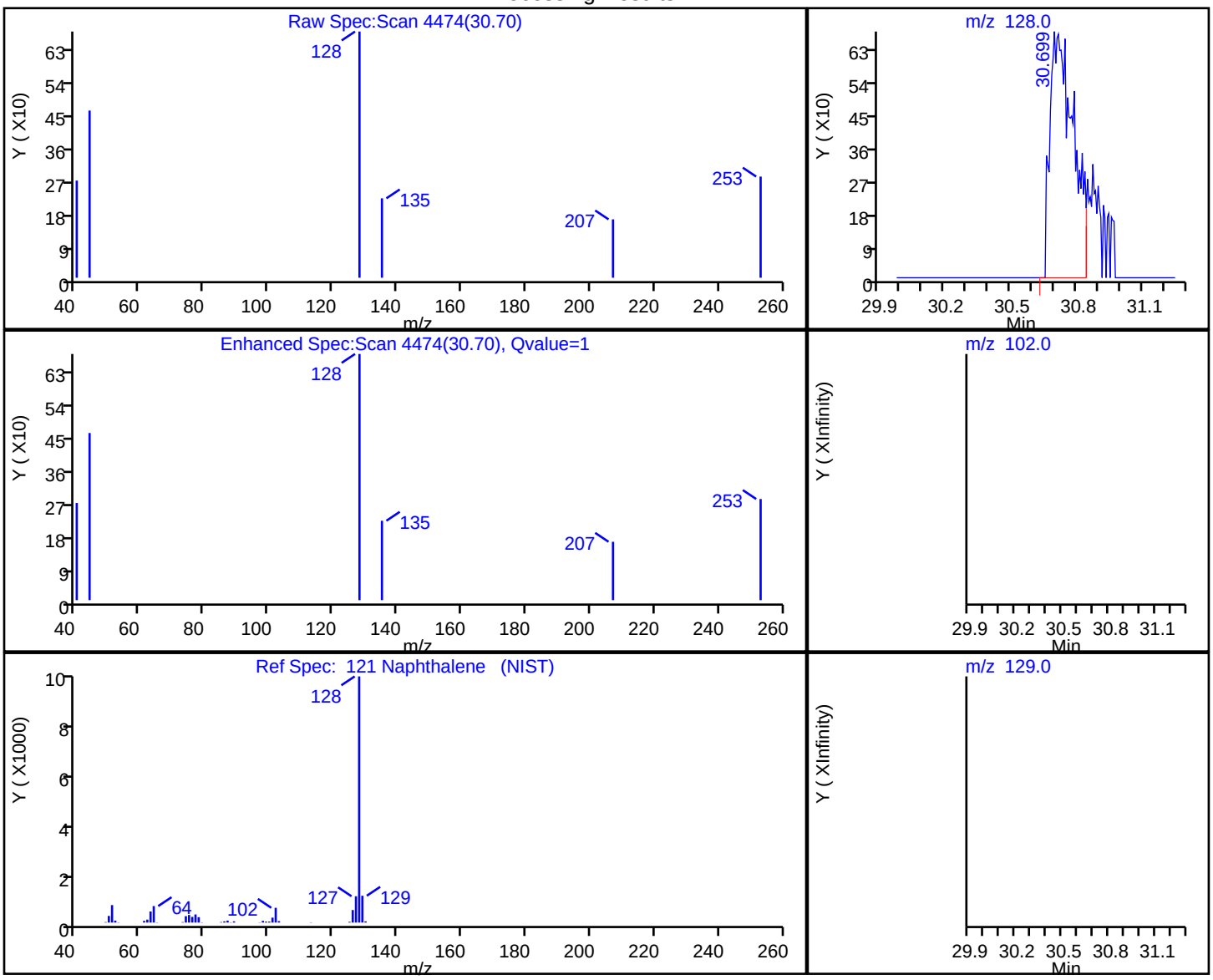
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D				
Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.70	128.00	5051	0.100336
30.61	102.00	0	
30.61	129.00	0	

Reviewer: phanthasena, 06-Apr-2018 16:05:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

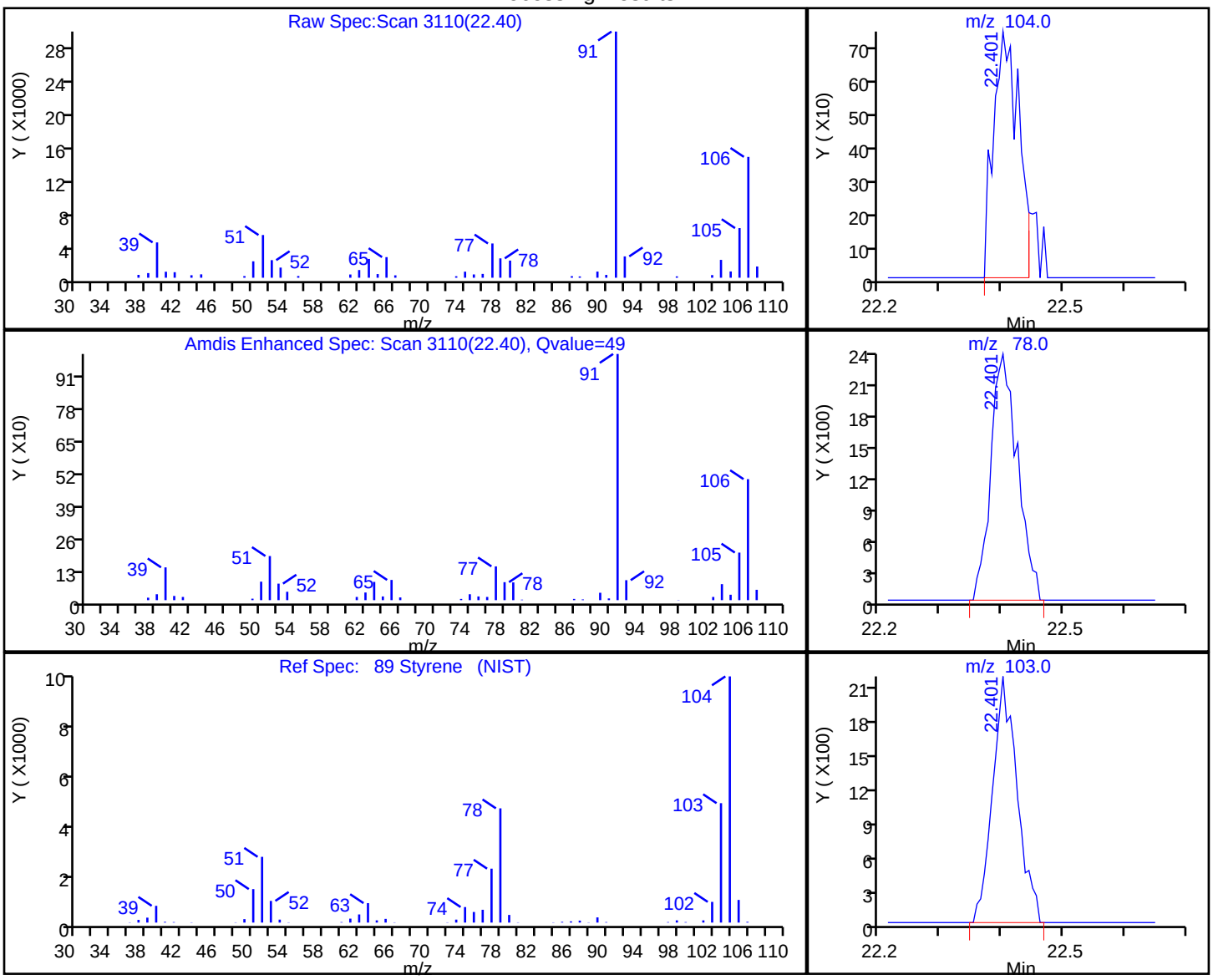
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040516.D				
Injection Date:	06-Apr-2018 00:57:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-17	Lab Sample ID:	320-37345-17		
Client ID:	786VMP-2_0318				
Operator ID:	LHS	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

89 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
22.40	104.00	2158	0.075775
22.40	78.00	7021	
22.40	103.00	5944	

Reviewer: phanthasena, 06-Apr-2018 16:05:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786VMP-3_0318 | Lab Sample ID: 320-37345-18

Matrix: Air | Lab File ID: MS7040518.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:25

Sample wt/vol: 413(mL) | Date Analyzed: 04/06/2018 02:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.66	J	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U M	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	7.0		2.4	1.2	0.59
591-78-6	2-Hexanone	1.6		1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	21		12	0.95	0.42
71-43-2	Benzene	0.49	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U M	1.8	0.88	0.34
75-15-0	Carbon disulfide	24		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.49	J	1.5	0.98	0.46
74-87-3	Chloromethane	0.84	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786VMP-3_0318 | Lab Sample ID: 320-37345-18

Matrix: Air | Lab File ID: MS7040518.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 16:25

Sample wt/vol: 413(mL) | Date Analyzed: 04/06/2018 02:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.5	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.29	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.42	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	1.1	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.52	J	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	3.9		2.7	1.4	0.35
108-88-3	Toluene	0.55	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	40		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.6	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D
Lims ID: 320-37345-A-18
Client ID: 786VMP-3_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 02:48:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-18
Misc. Info.: 413 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 17:32:20 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 18:01:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.235	12.223	0.012	92	28692	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.383	0.006	97	125522	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.063	0.006	92	137912	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.446	13.434	0.018	97	52576	4.44	
$ 5 Toluene-d8 (Surr)	100	17.796	17.791	0.012	97	91710	4.19	
$ 6 4-Bromofluorobenzene (Surr	95	23.624	23.612	0.018	85	98788	3.86	
13 Dichlorodifluoromethane	85	3.925	3.911	0.018	31	3570	0.3087	
16 Chloromethane	50	4.388	4.362	0.031	97	2526	0.4074	
26 Trichlorofluoromethane	101	6.407	6.396	0.018	72	4626	0.2921	
32 Acetone	43	7.332	7.309	0.030	100	119788	8.89	
33 1,1,2-Trichloro-1,2,2-trif	101	7.496	7.496	0.024	72	865	0.0665	M
39 Methylene Chloride	49	8.683	8.667	0.025	92	1336	0.1214	
40 Carbon disulfide	76	8.731	8.716	0.024	95	104379	7.75	
48 2-Butanone (MEK)	72	11.195	11.182	0.024	92	8690	2.37	
53 Chloroform	83	11.968	11.967	0.012	90	1451	0.0996	
55 1,1,1-Trichloroethane	97	12.917	12.911	0.018	73	1942	0.1212	
59 Carbon tetrachloride	117	13.501	13.488	0.018	76	1150	0.0648	
63 Benzene	78	13.781	13.762	0.025	90	3606	0.1532	
65 Trichloroethene	130	15.156	15.156	0.006	96	84327	7.46	
75 Toluene	91	17.978	17.968	0.018	89	4808	0.1451	
78 2-Hexanone	58	18.733	18.702	0.037	88	6446	0.3842	
80 Tetrachloroethene	166	19.469	19.474	0.000	90	10432	0.5821	
86 Ethylbenzene	91	21.330	21.318	0.018	92	3247	0.0673	
87 m-Xylene & p-Xylene	91	21.513	21.501	0.018	95	9326	0.2498	
88 o-Xylene	91	22.407	22.408	0.006	54	4473	0.1203	
102 4-Ethyltoluene	120	24.238	24.270	-0.025	58	771	0.0493	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

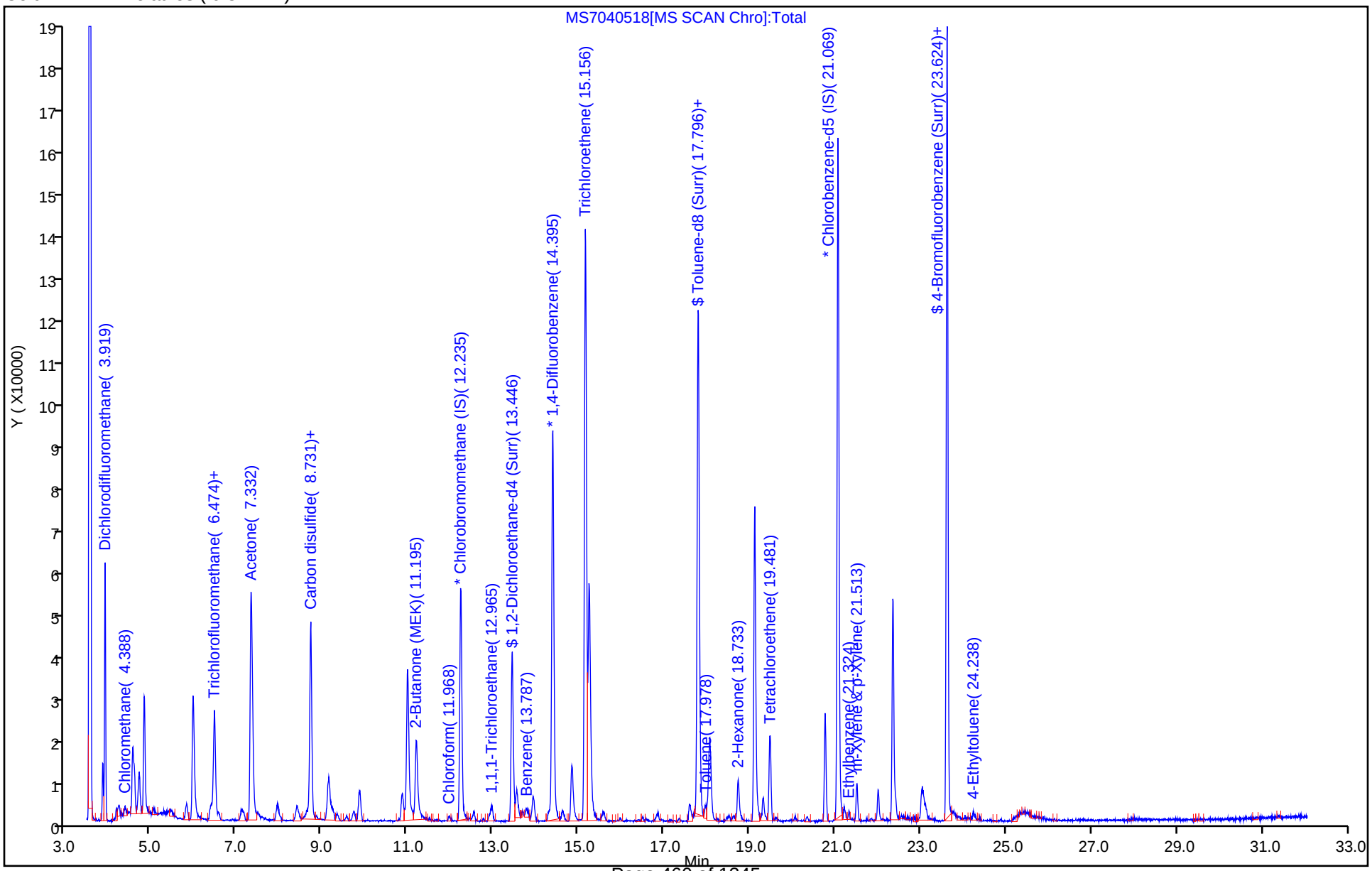
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D

Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18	Worklist Smp#:	16
Client ID:	786VMP-3_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D
Lims ID: 320-37345-A-18
Client ID: 786VMP-3_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 02:48:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-18
Misc. Info.: 413 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 17:32:20 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 18:01:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.44	111.03
$ 5 Toluene-d8 (Surr)	4.00	4.19	104.86
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.86	96.40

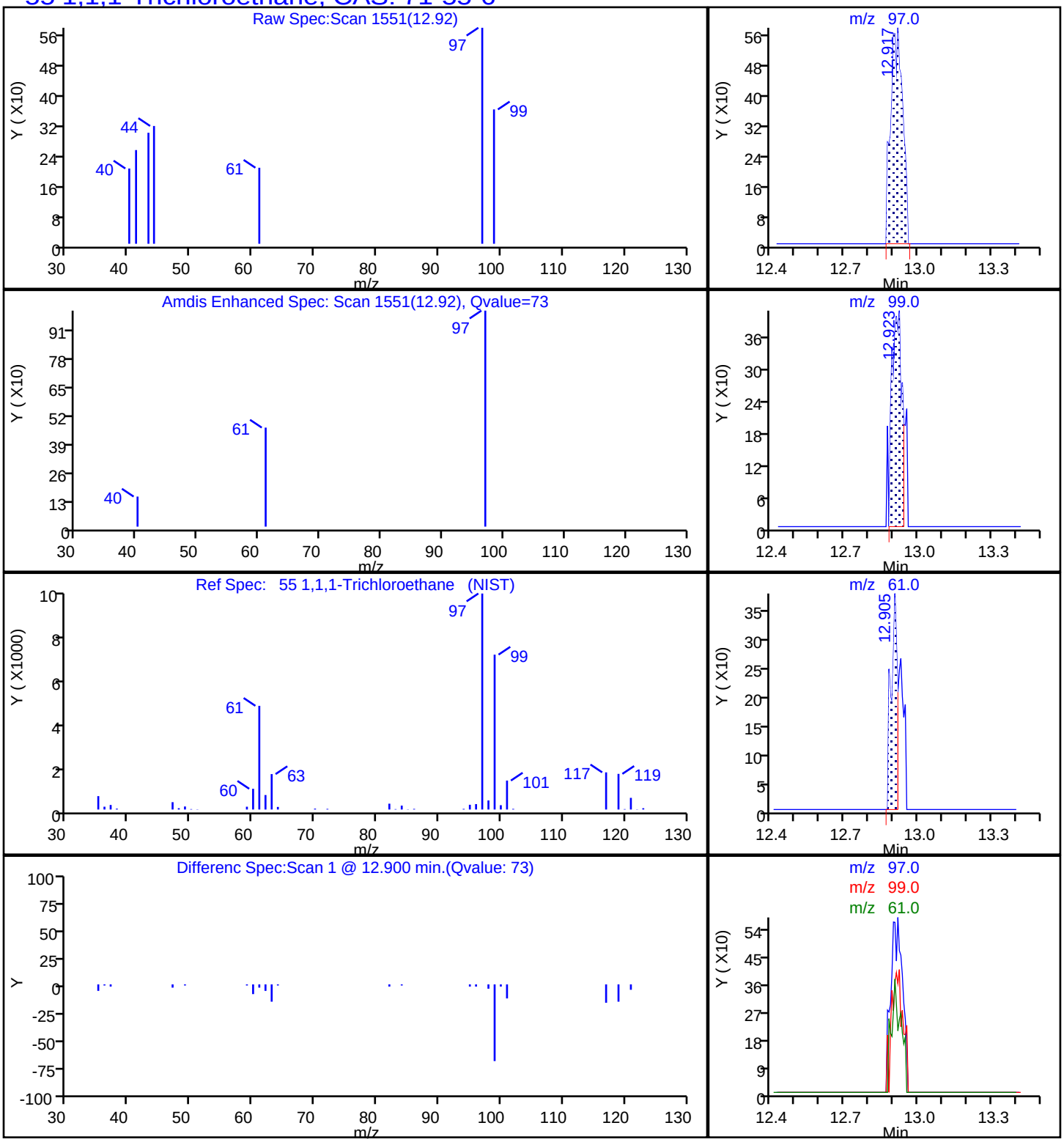
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D

Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

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



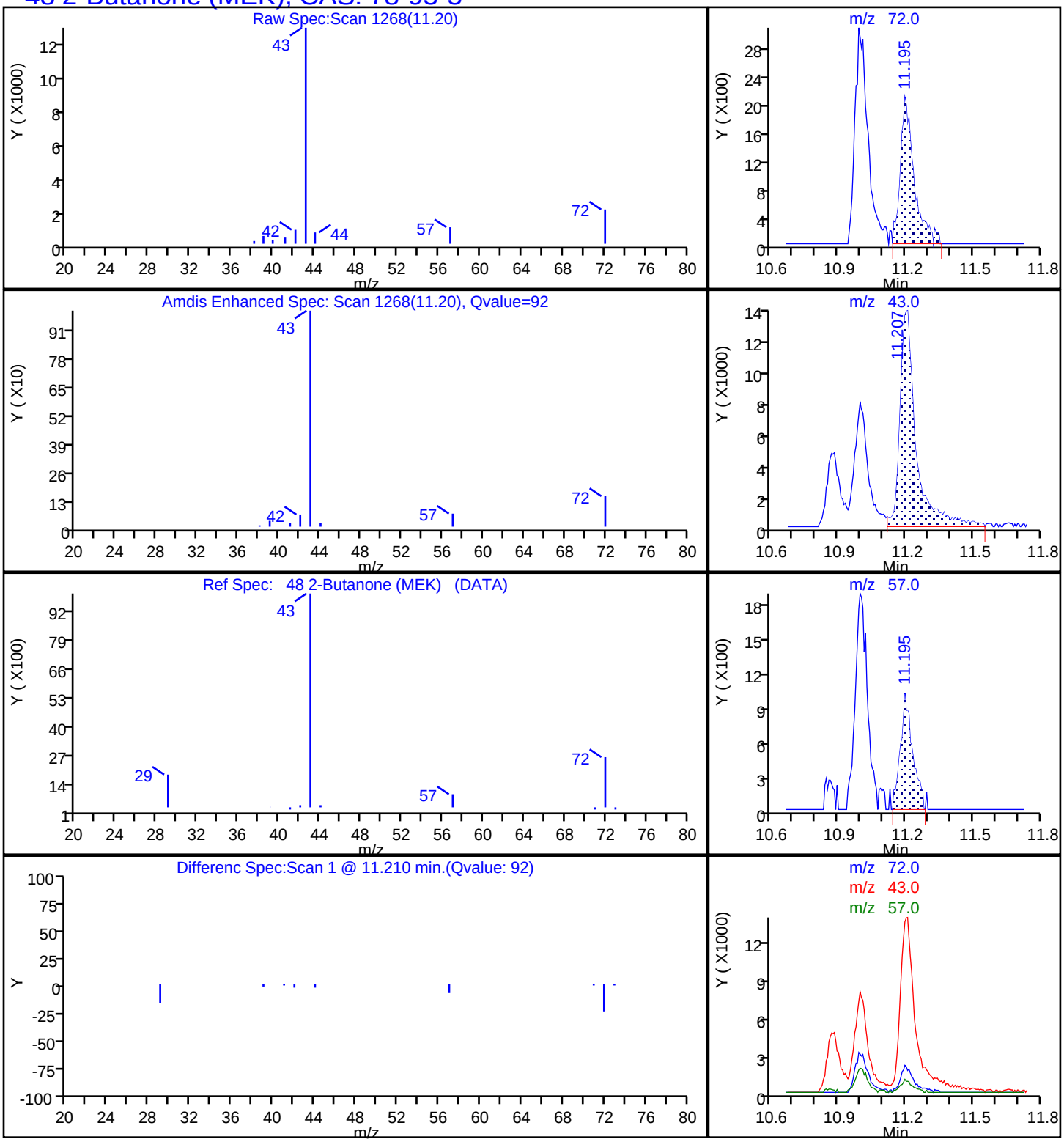
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



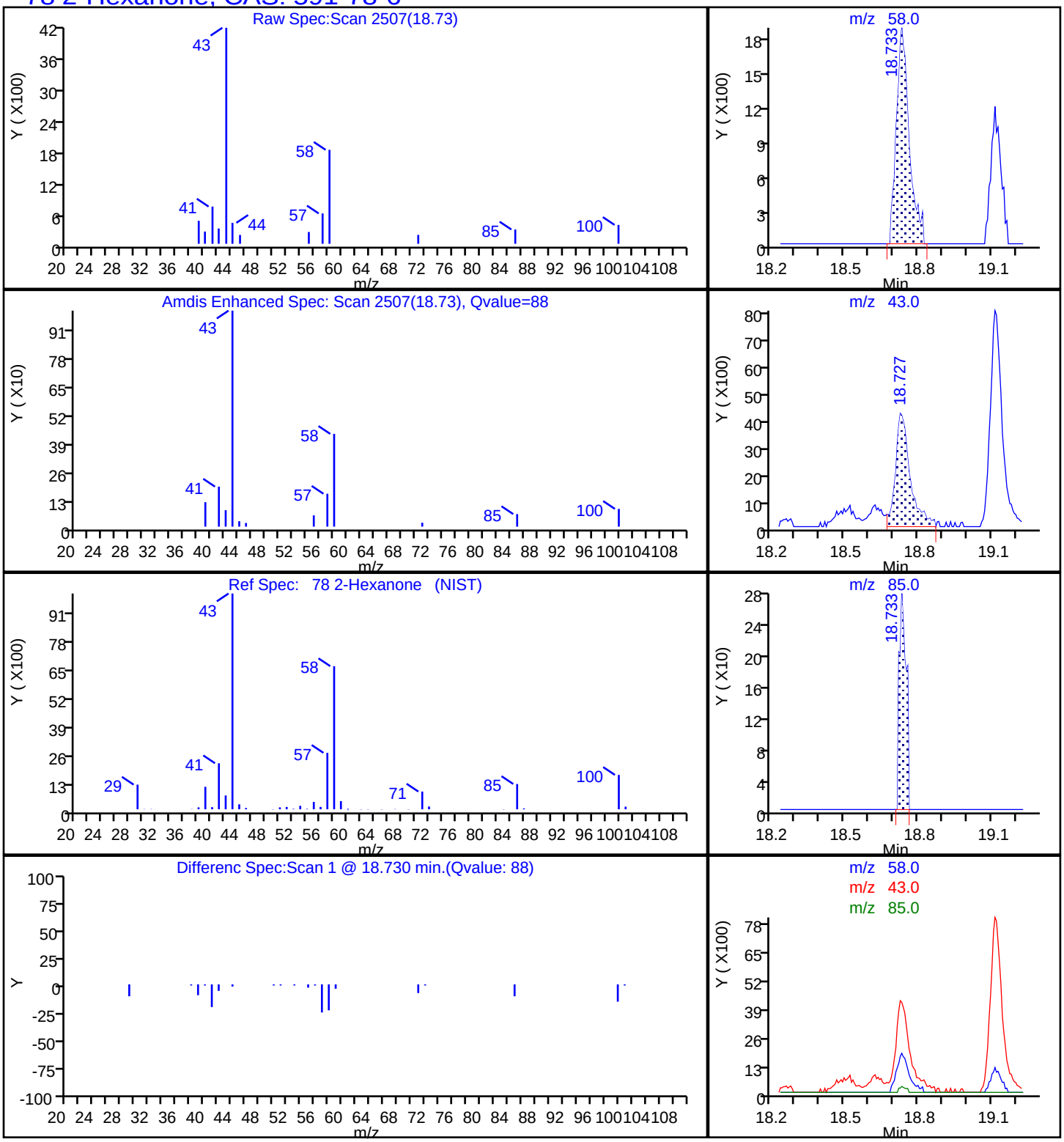
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D

Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

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



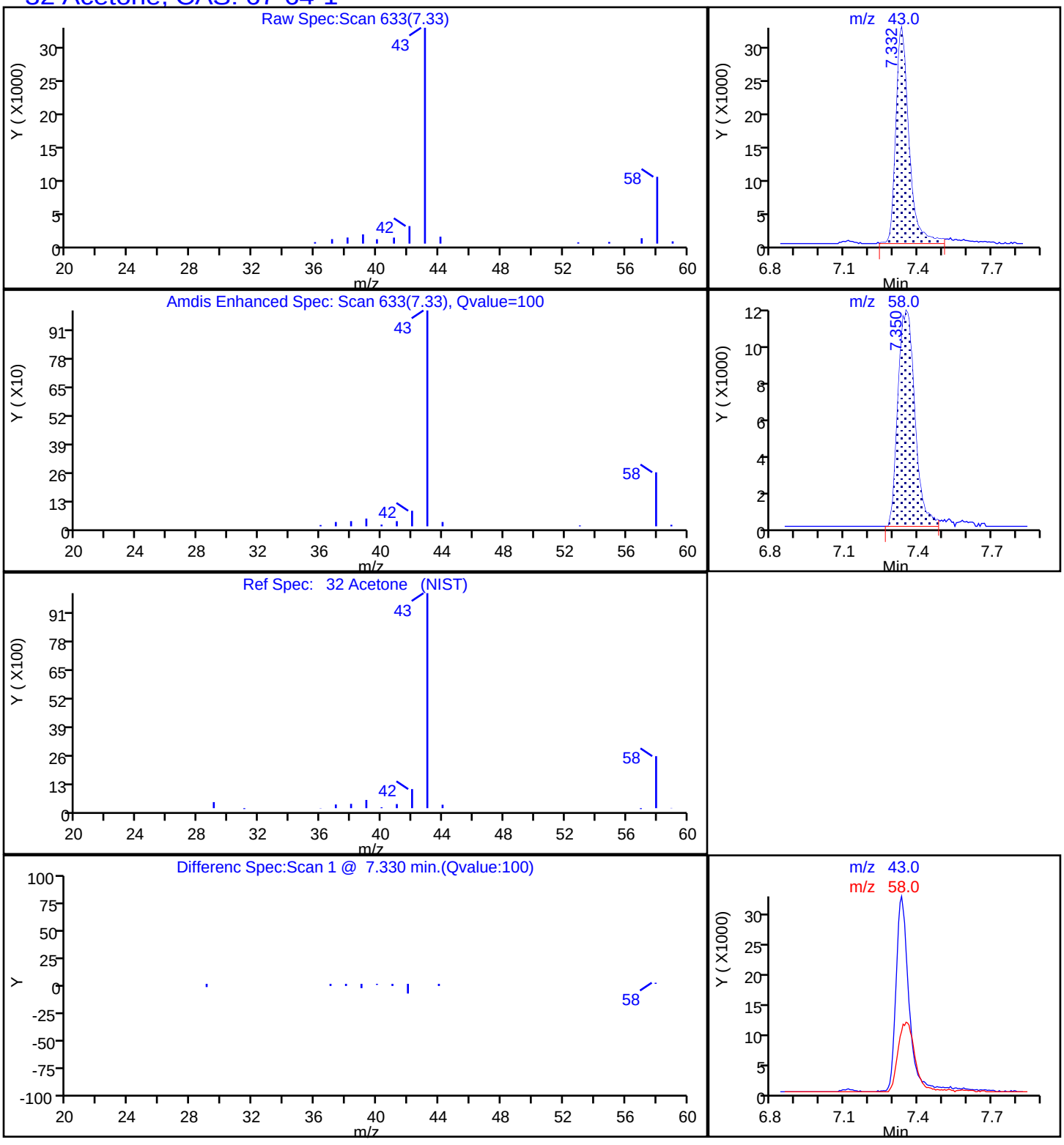
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18		
Client ID:	786VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1



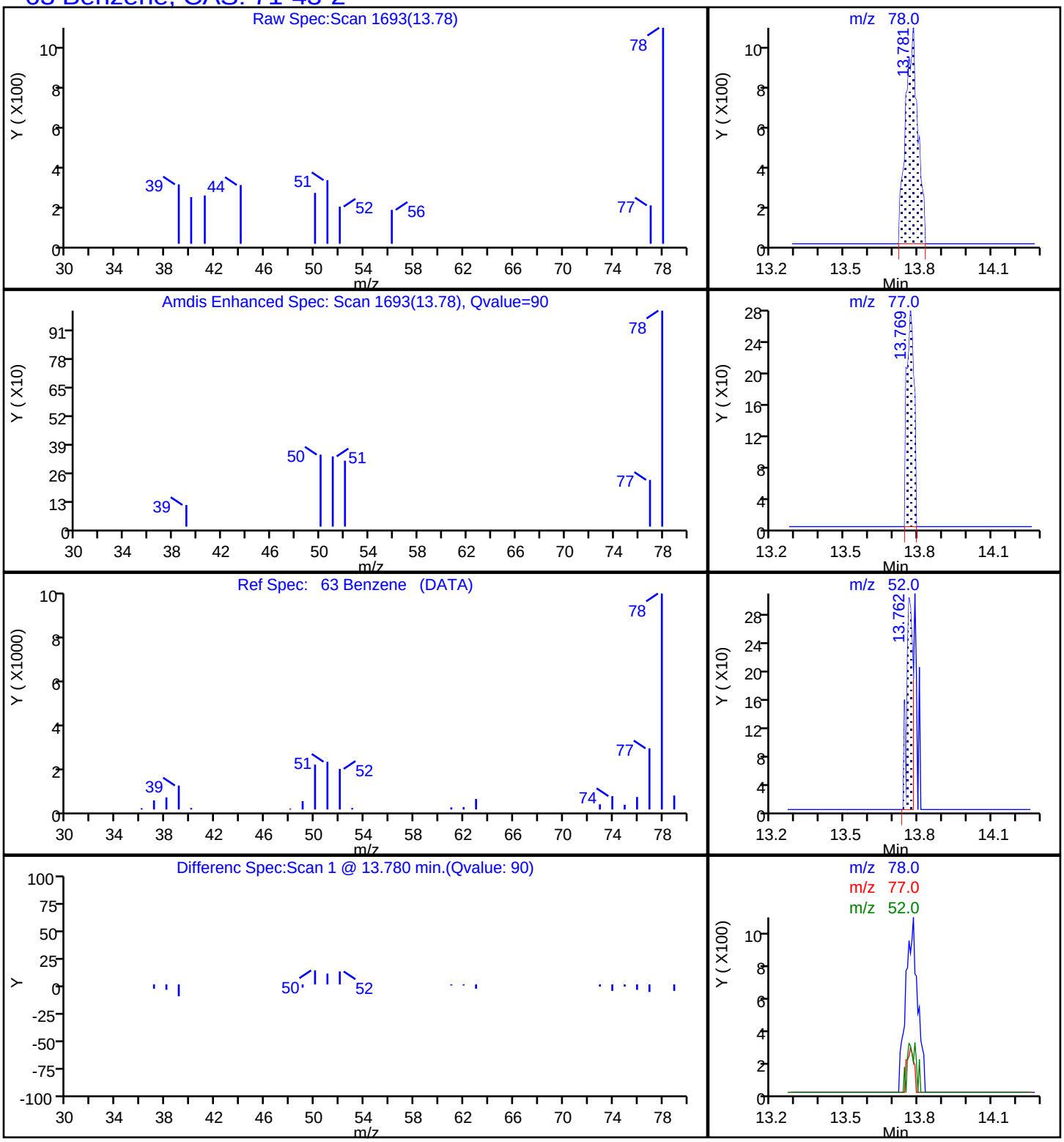
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



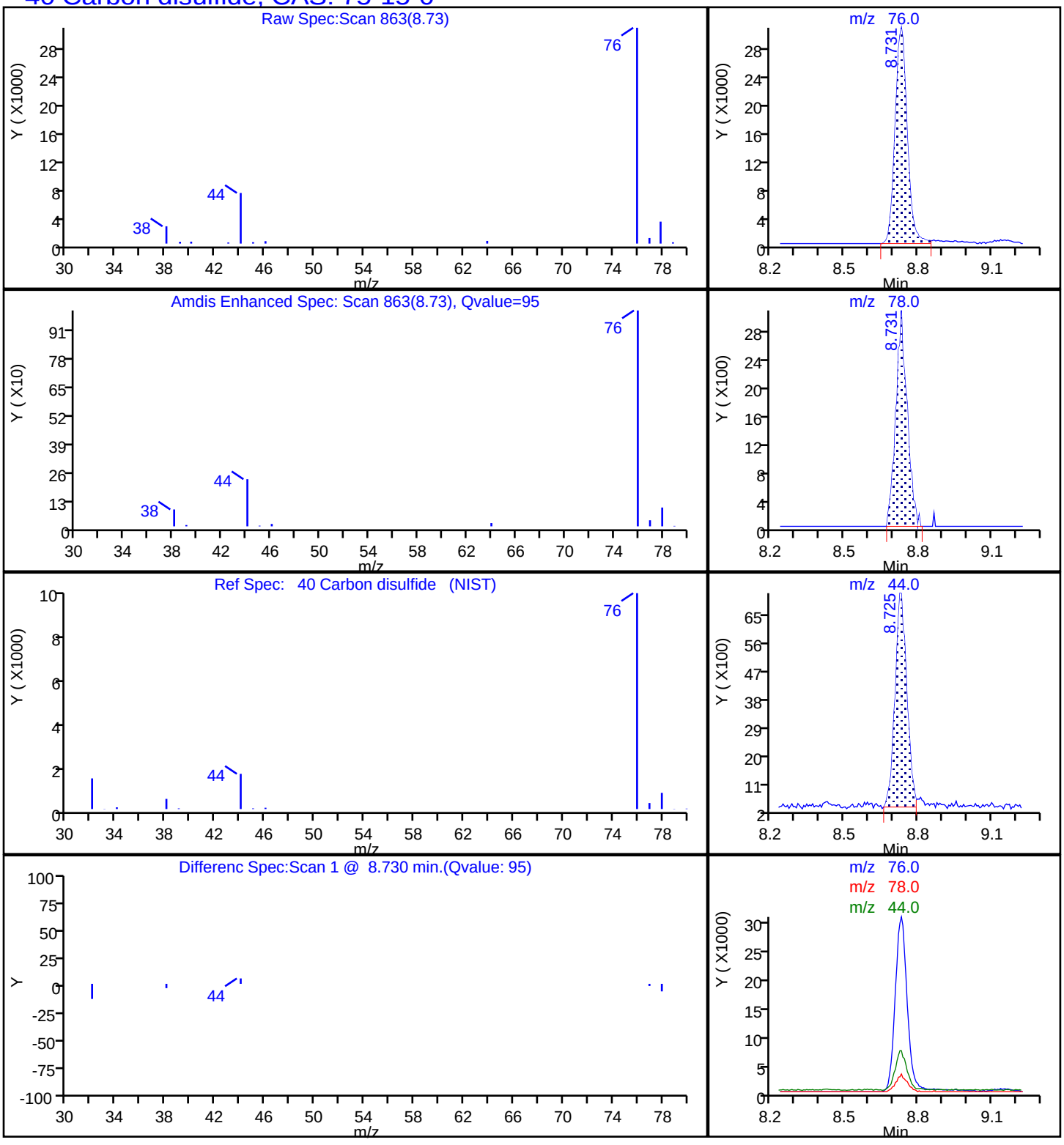
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

40 Carbon disulfide, CAS: 75-15-0



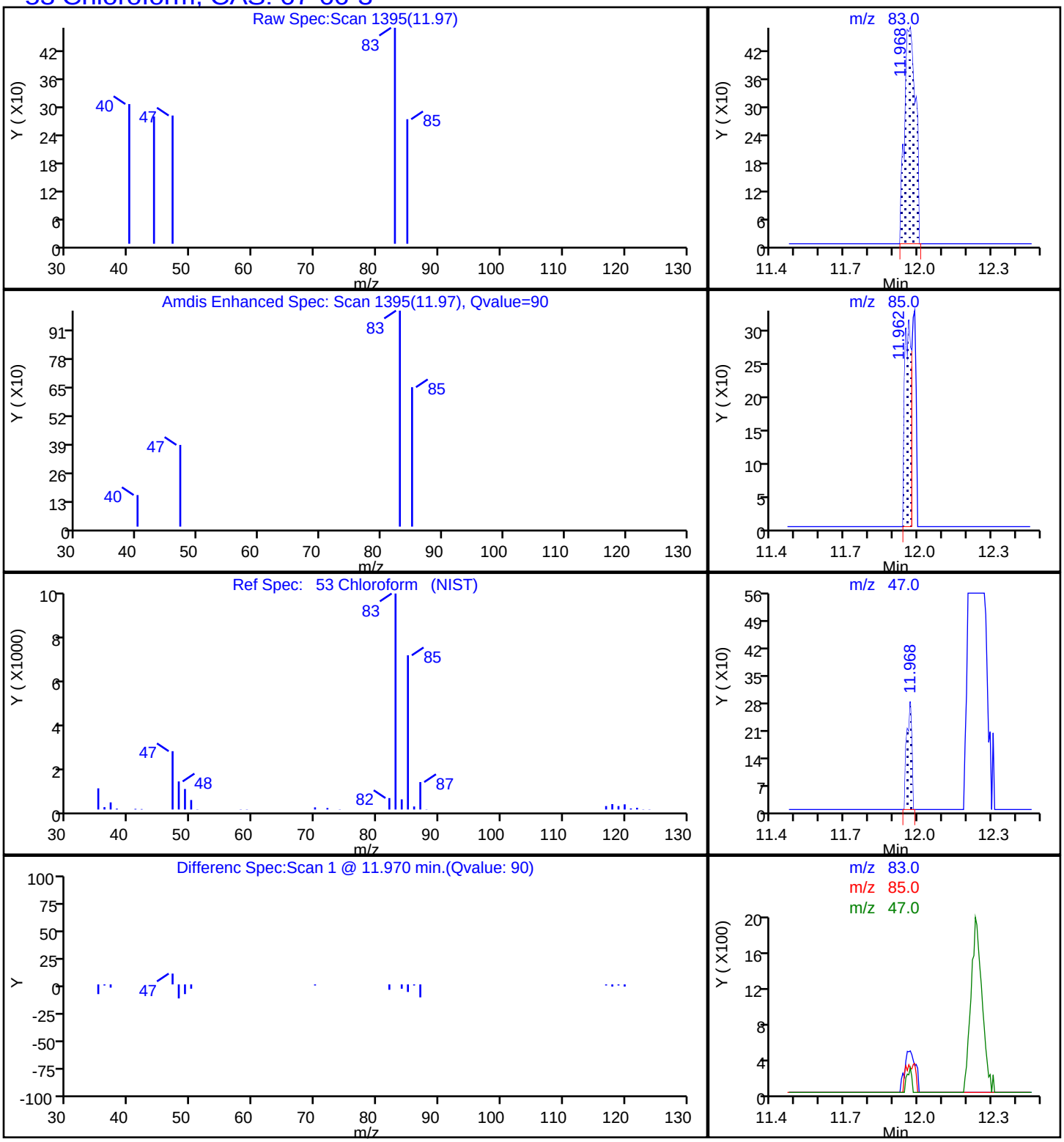
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



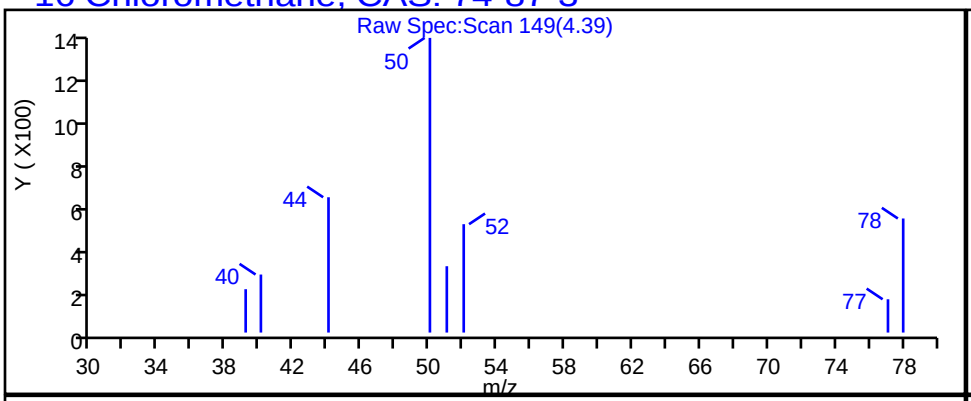
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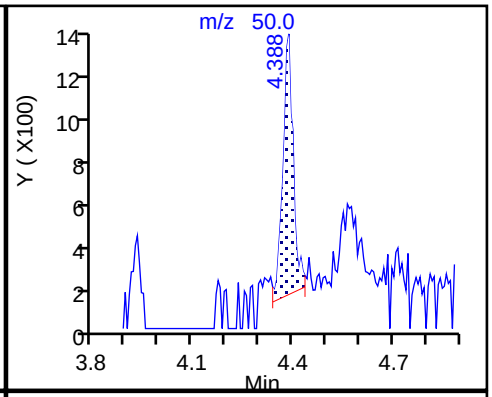
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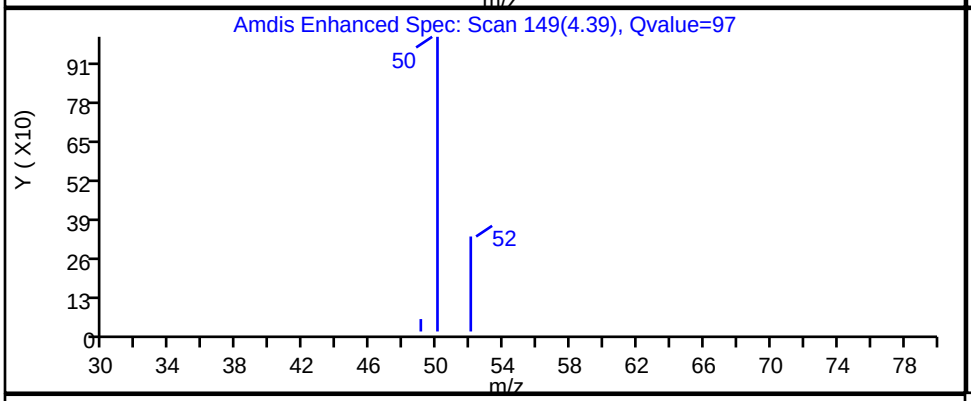
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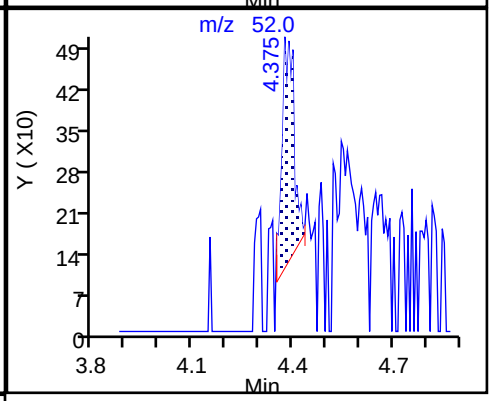
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Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

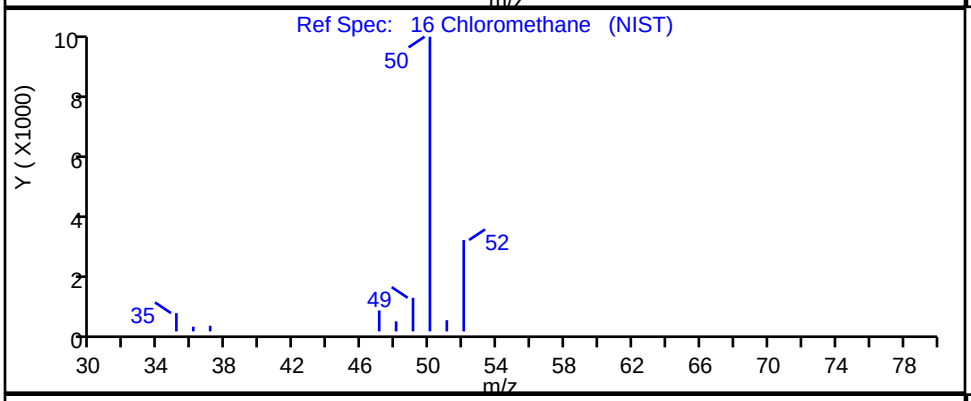
16 Chloromethane, CAS: 74-87-3

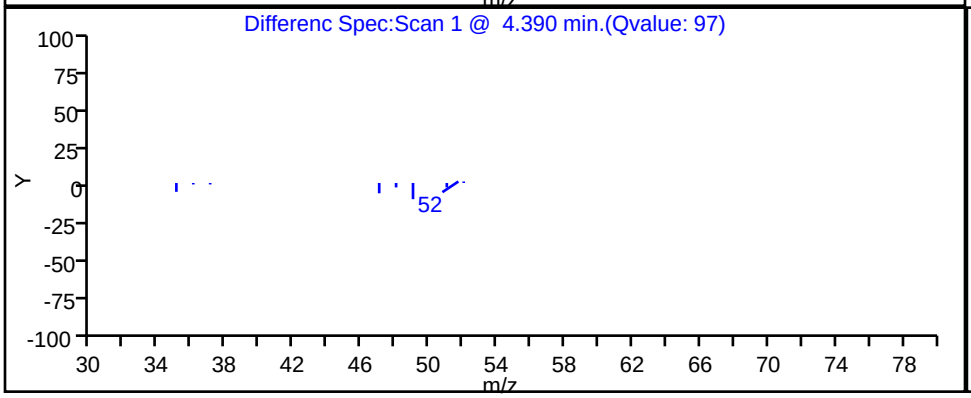


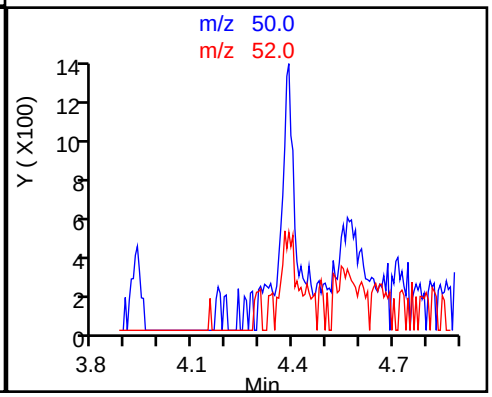












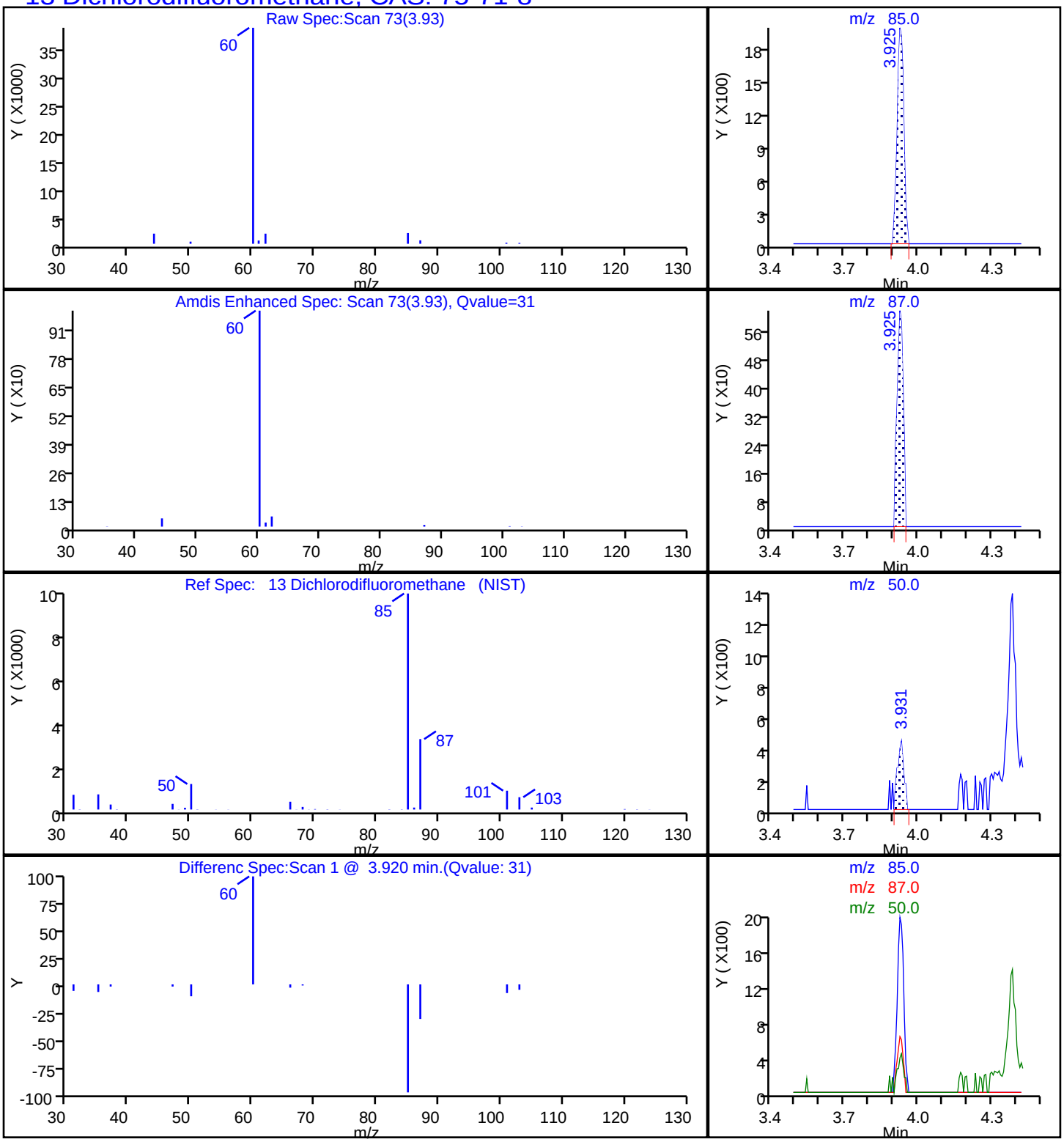
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18		
Client ID:	786VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8



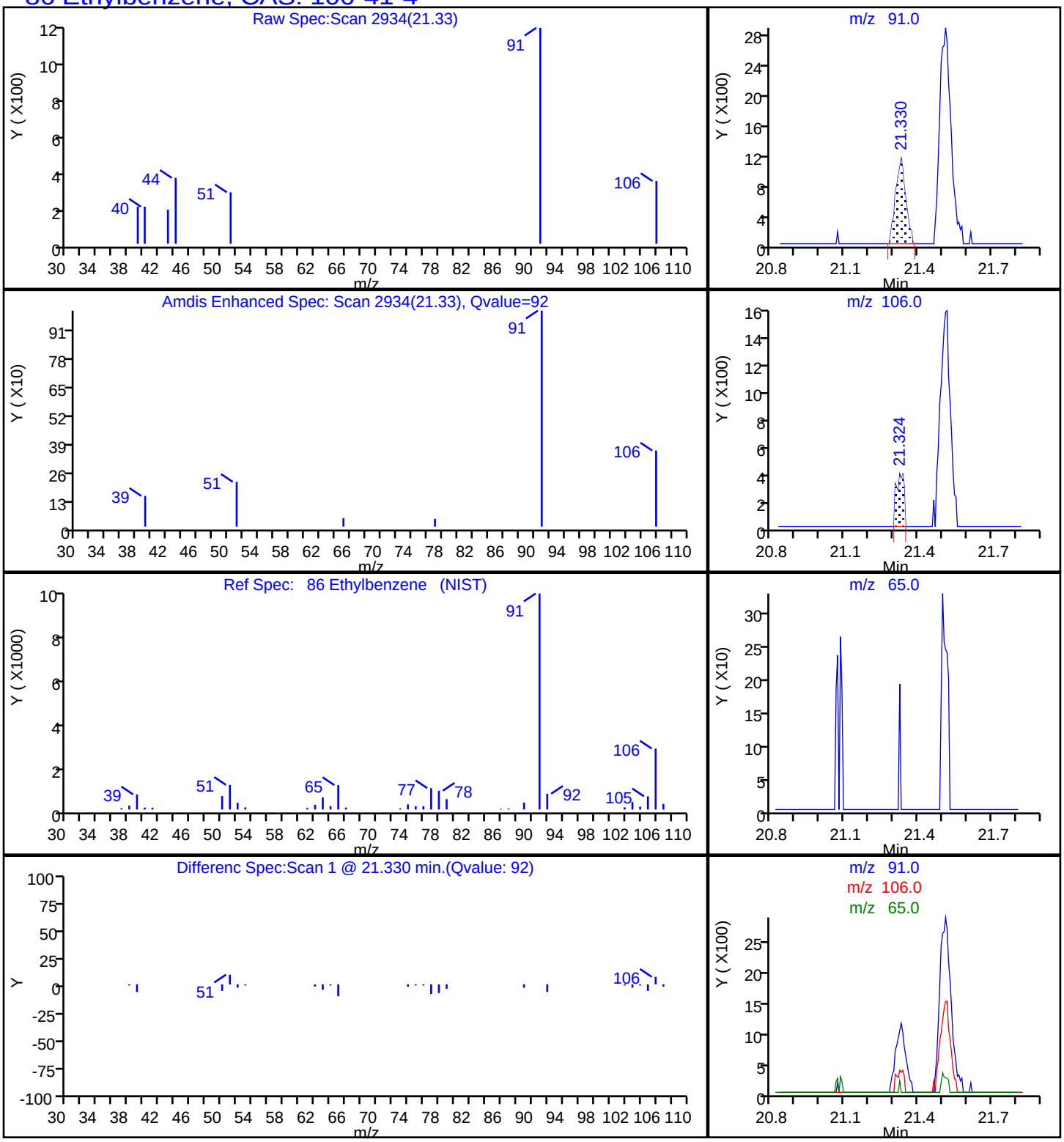
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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



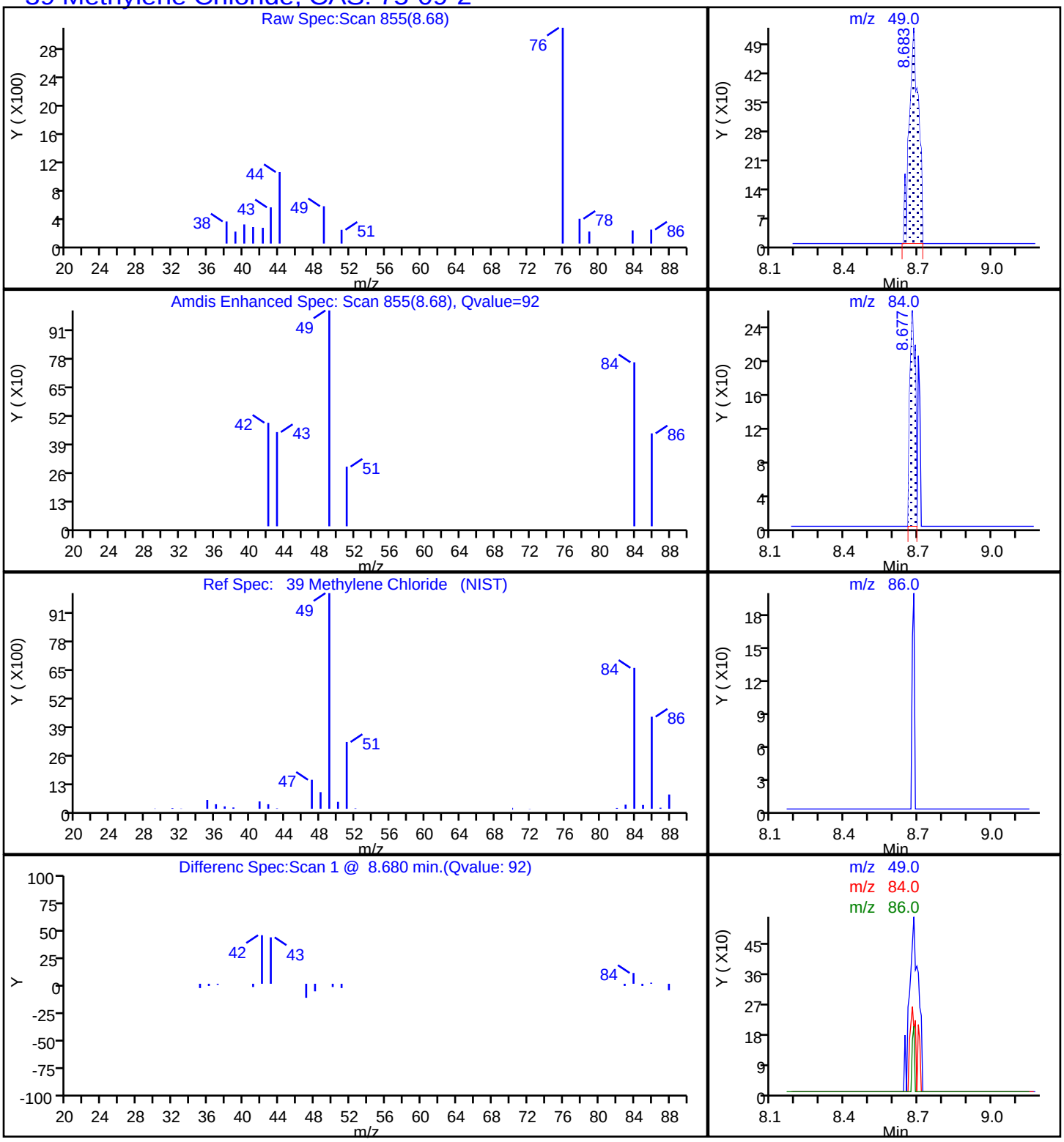
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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



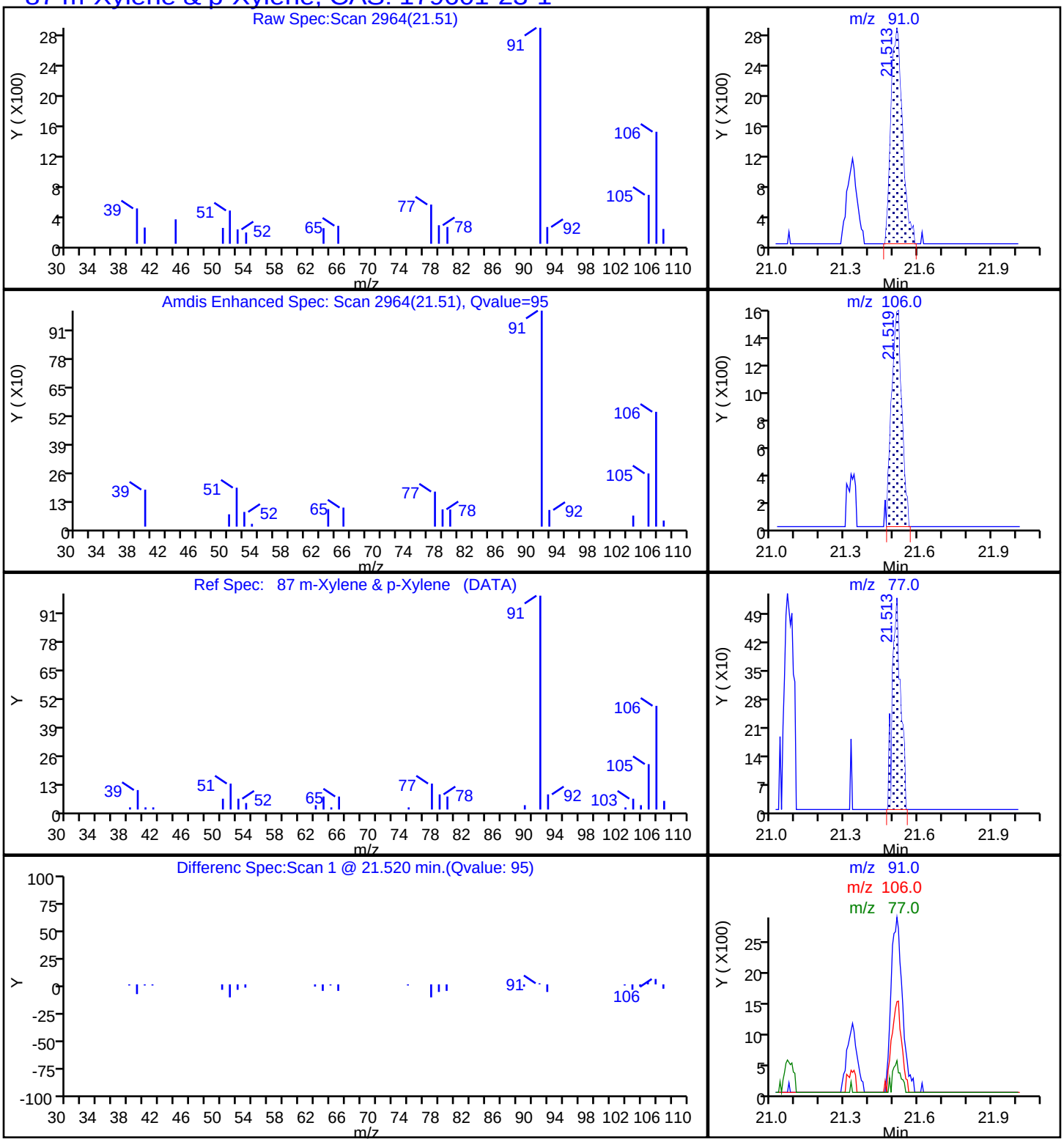
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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18		
Client ID:	786VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1



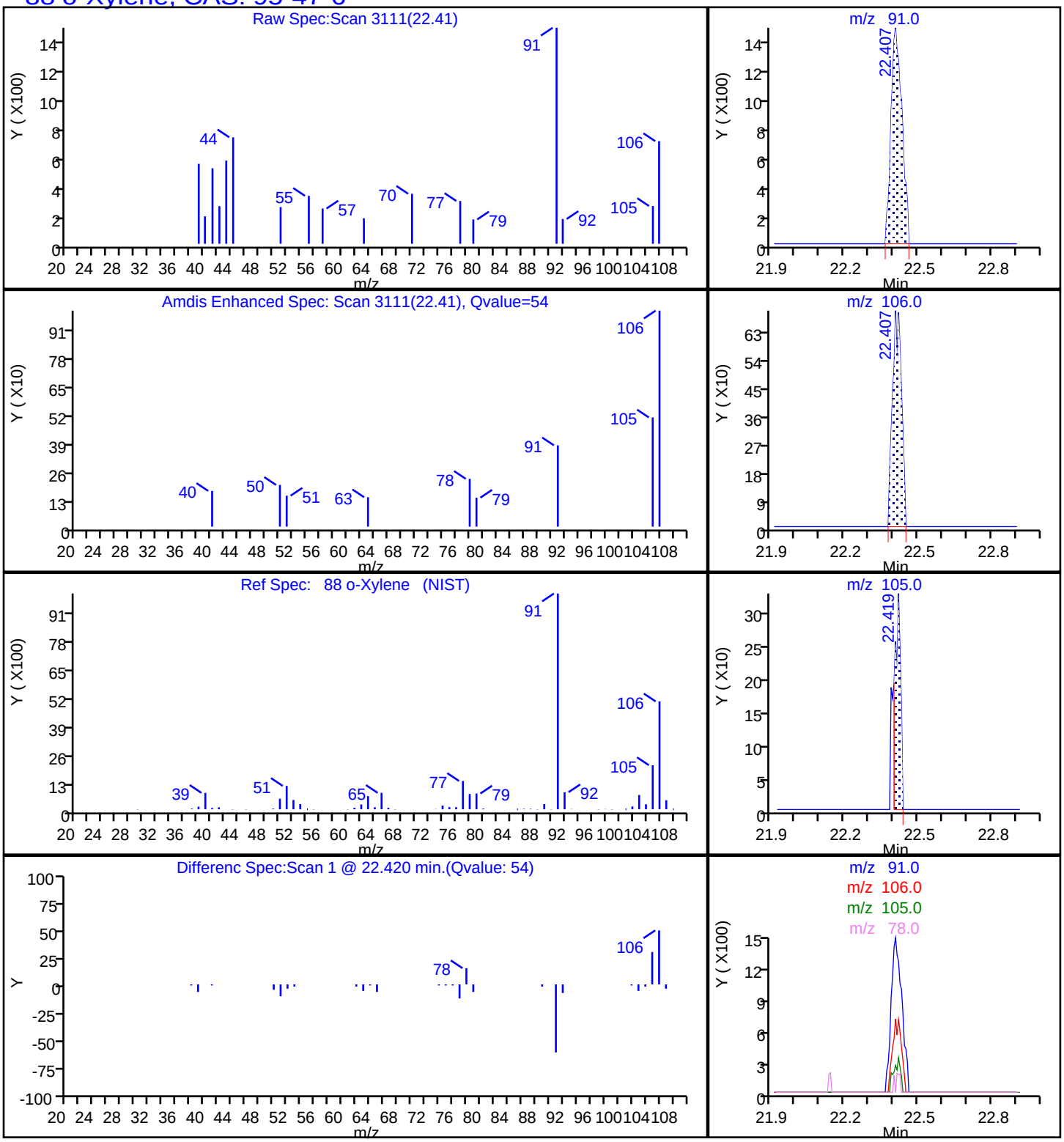
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Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



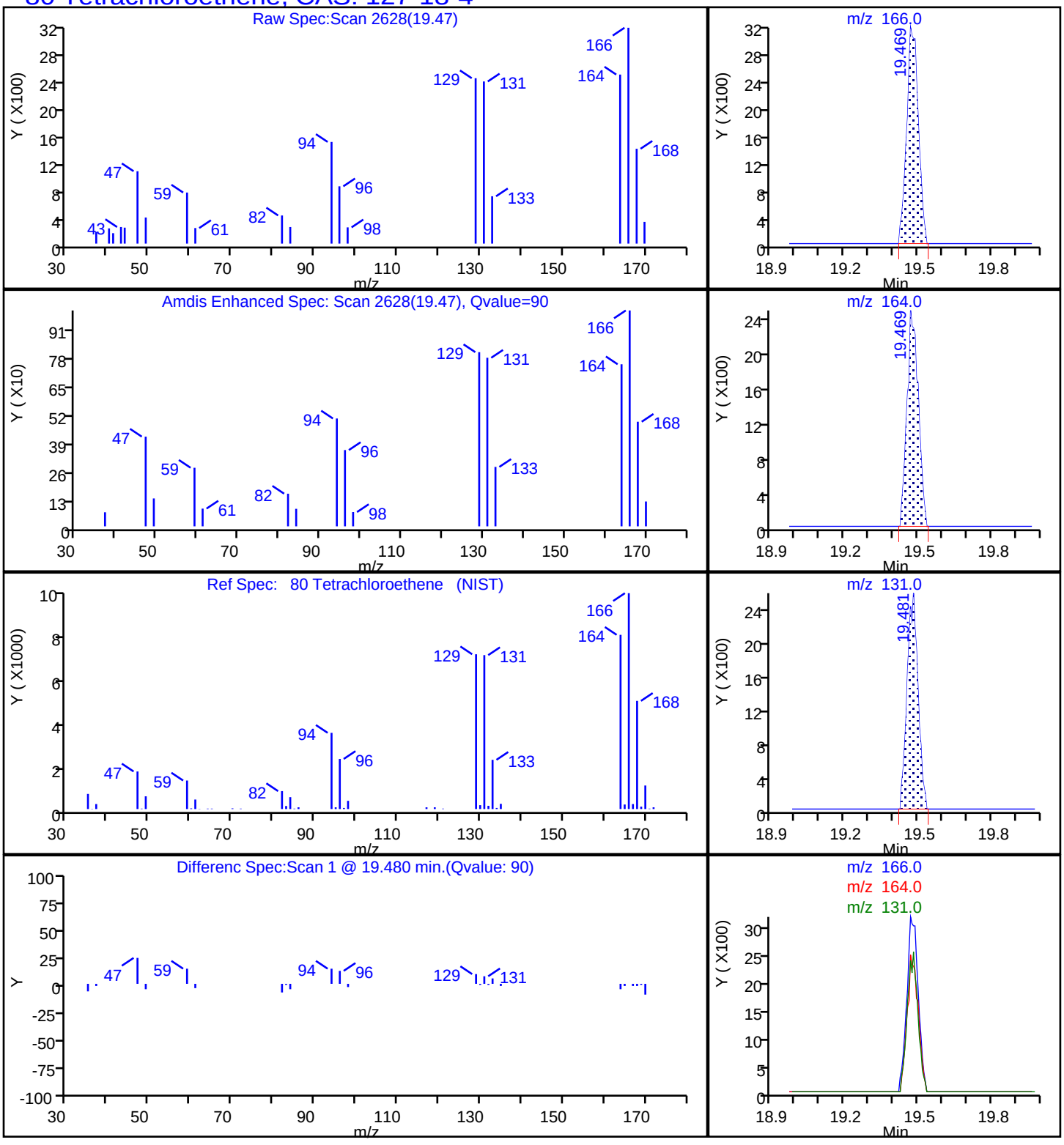
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Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



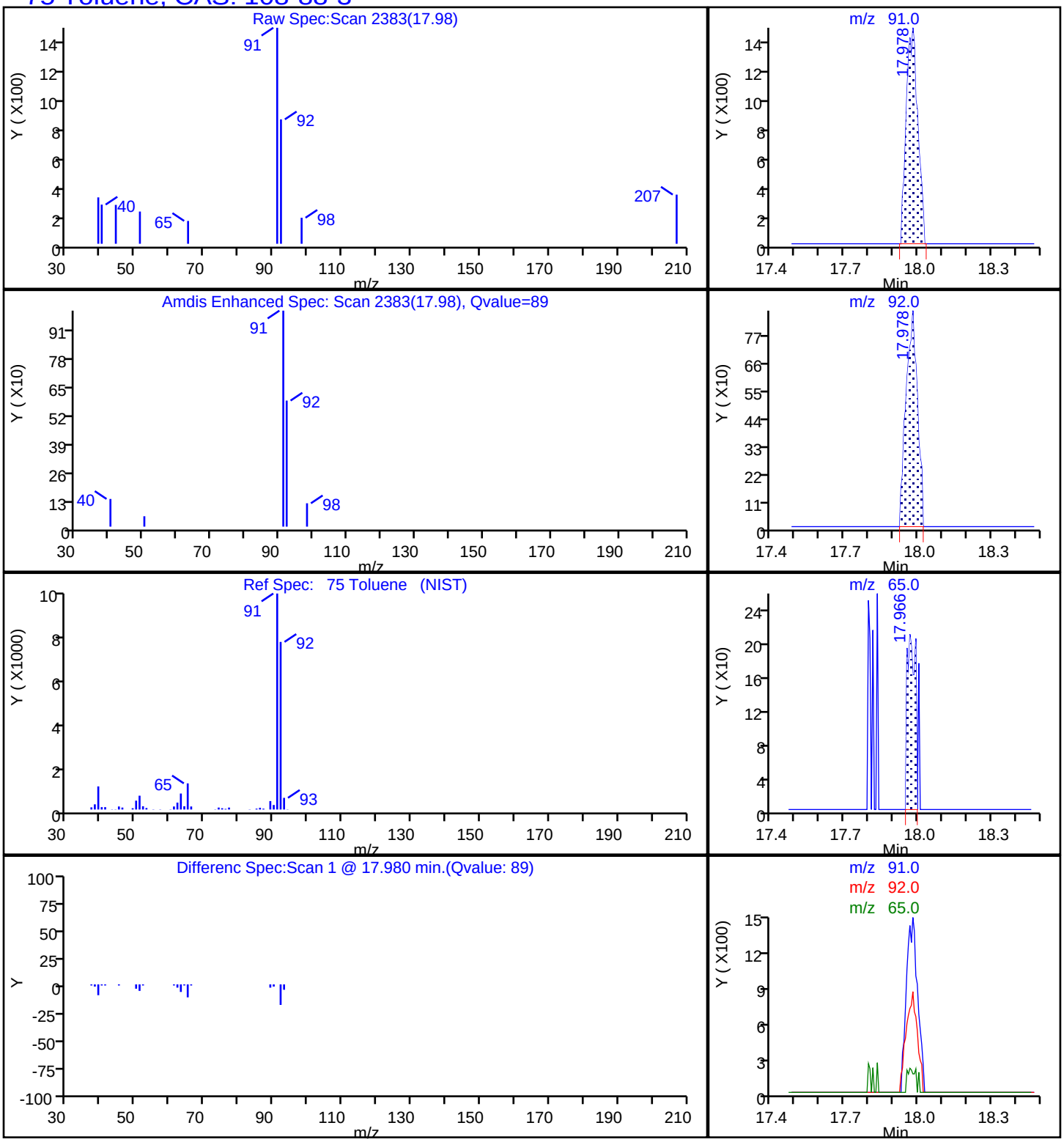
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Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



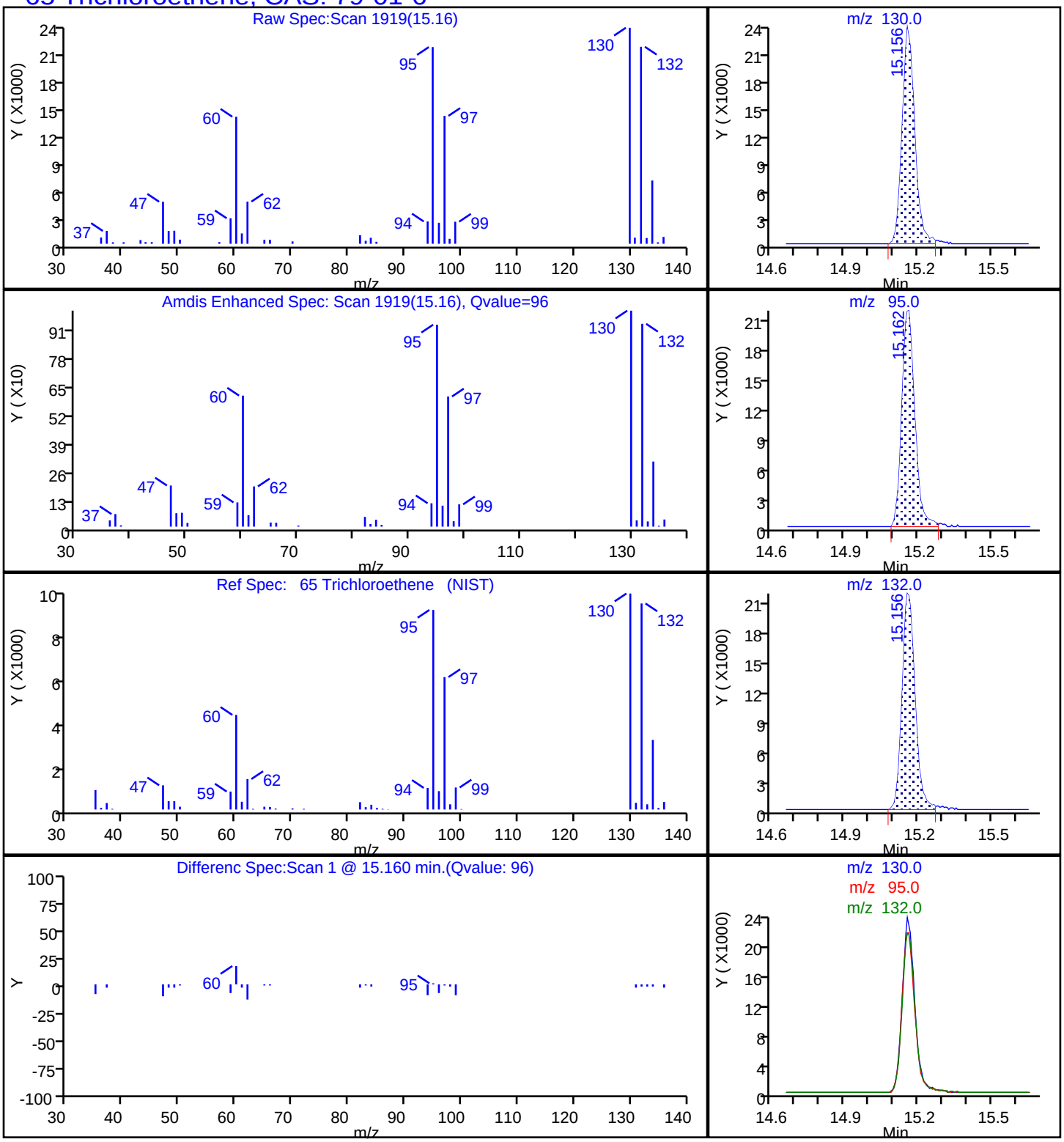
Report Date: 06-Apr-2018 18:01:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D

Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



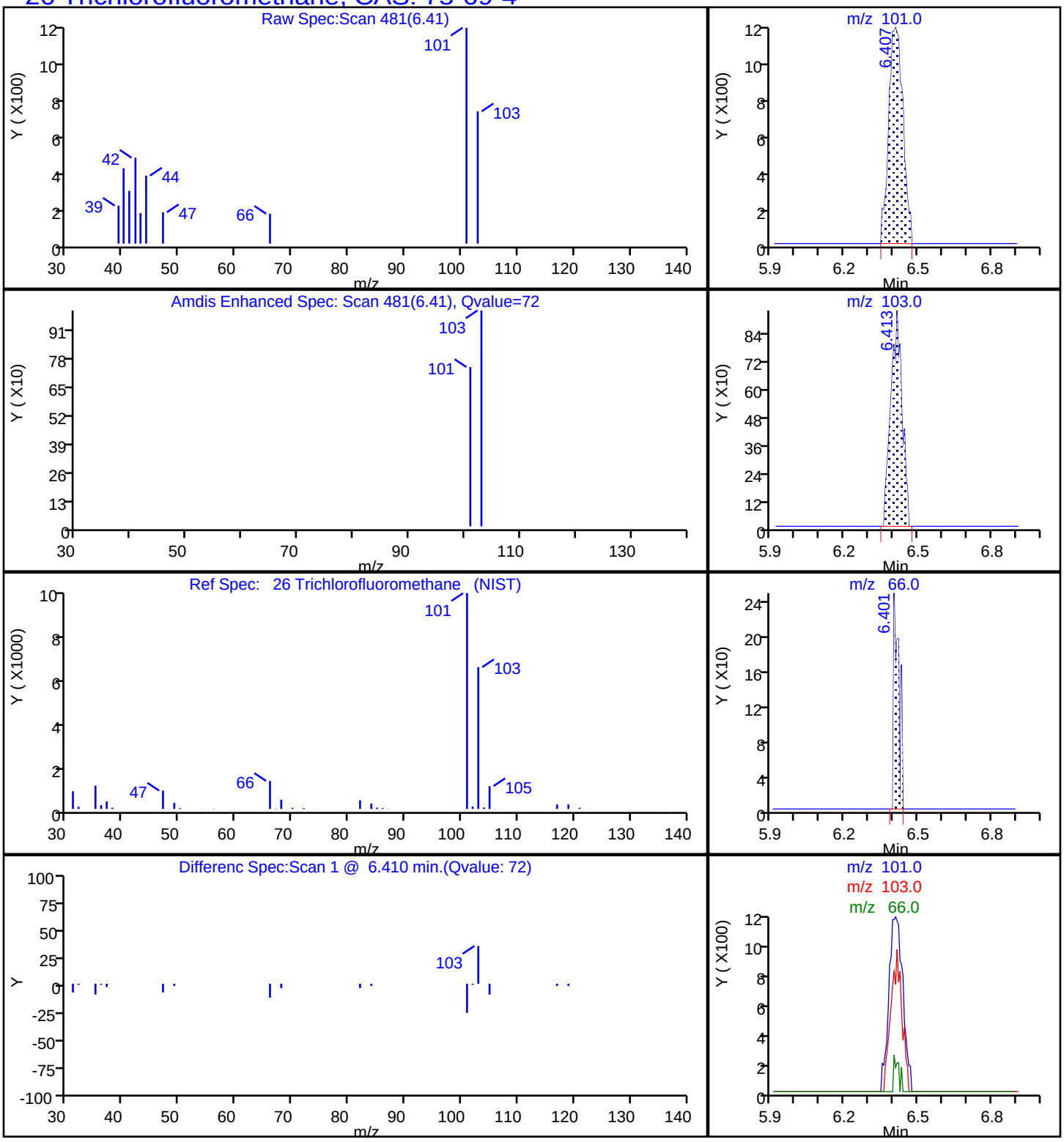
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D

Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18
Client ID:	786VMP-3_0318		
Operator ID:	LHS	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

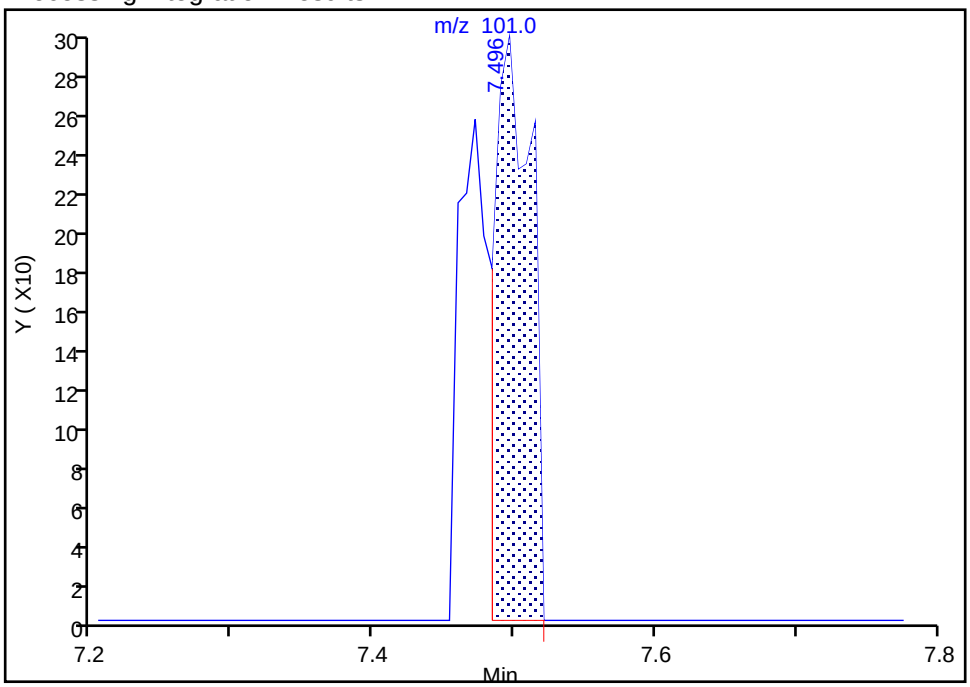
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Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18		
Client ID:	786VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

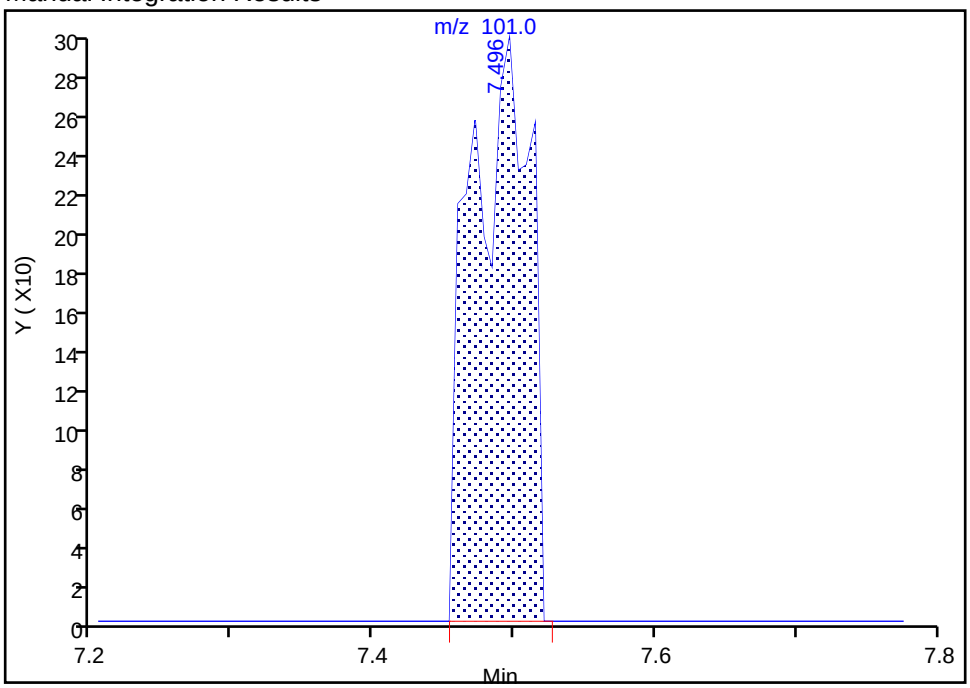
Processing Integration Results

RT: 7.50
Area: 540
Amount: 0.041490
Amount Units: ppb v/v



Manual Integration Results

RT: 7.50
Area: 865
Amount: 0.066460
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 17:31:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

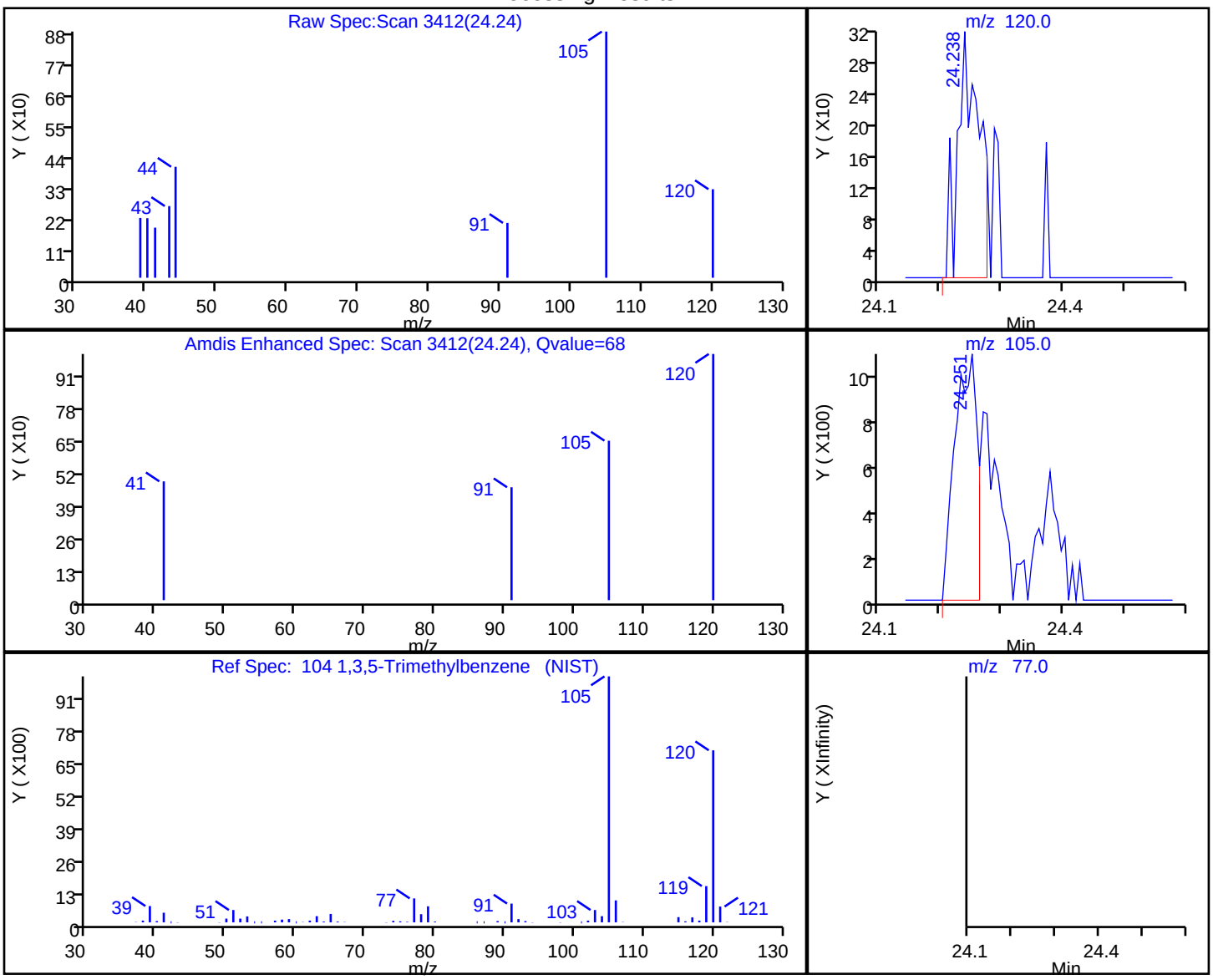
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D				
Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18		
Client ID:	786VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

104 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
24.24	120.00	771	0.033503
24.25	105.00	2665	
24.36	77.00	0	

Reviewer: phanthasena, 06-Apr-2018 17:32:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

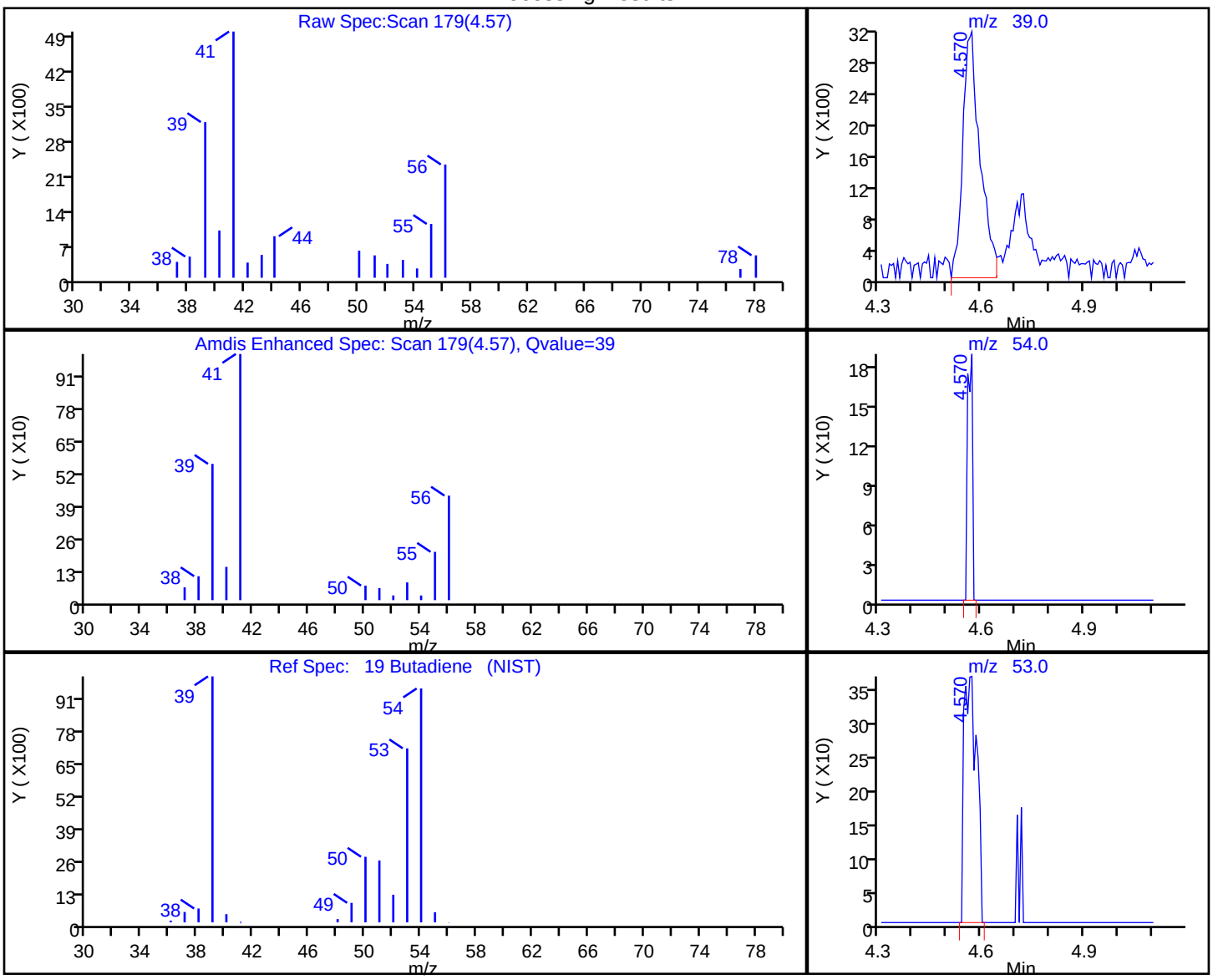
TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040518.D

Injection Date:	06-Apr-2018 02:48:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-18	Lab Sample ID:	320-37345-18		
Client ID:	786VMP-3_0318				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

19 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
4.57	39.00	11136	2.017159
4.57	54.00	190	
4.57	53.00	947	

Reviewer: phanthasena, 06-Apr-2018 17:32:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785OA-1_0318 | Lab Sample ID: 320-37345-20

Matrix: Air | Lab File ID: MS7040519.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 17:05

Sample wt/vol: 376(mL) | Date Analyzed: 04/06/2018 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	0.67	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U M	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	5.7	J	12	0.95	0.42
71-43-2	Benzene	0.25	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U M	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.32	J	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	1.6	J	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785OA-1_0318 | Lab Sample ID: 320-37345-20

Matrix: Air | Lab File ID: MS7040519.D

Analysis Method: TO-15 | Date Collected: 03/21/2018 17:05

Sample wt/vol: 376(mL) | Date Analyzed: 04/06/2018 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	1.6	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	2.1		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.48	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.97	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.30	J	1.7	0.87	0.23
100-42-5	Styrene	1.1	J	1.7	0.85	0.25
127-18-4	Tetrachloroethene	18		2.7	1.4	0.35
108-88-3	Toluene	0.44	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.5	J	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	1.4	J	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D
Lims ID: 320-37345-A-20
Client ID: 785OA-1_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 03:44:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-20
Misc. Info.: 376 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 18:36:52 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 18:36:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.242	12.223	0.019	92	31114	4.00	
* 2 1,4-Difluorobenzene	114	14.395	14.383	0.012	97	146025	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.063	0.006	92	153128	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.446	13.439	0.018	96	60867	4.42	
$ 5 Toluene-d8 (Surr)	100	17.796	17.799	0.012	97	102851	4.04	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.612	0.012	91	100798	3.54	
13 Dichlorodifluoromethane	85	3.931	3.915	0.024	97	4166	0.3321	
16 Chloromethane	50	4.382	4.366	0.025	98	5176	0.7698	
26 Trichlorofluoromethane	101	6.414	6.402	0.025	95	4393	0.2558	
32 Acetone	43	7.363	7.316	0.061	98	35153	2.41	
39 Methylene Chloride	49	8.713	8.676	0.055	63	1660	0.1391	
48 2-Butanone (MEK)	72	11.250	11.193	0.079	92	901	0.2266	
63 Benzene	78	13.769	13.768	0.013	88	2166	0.0791	
65 Trichloroethene	130	15.168	15.162	0.018	93	6206	0.4721	
75 Toluene	91	17.972	17.975	0.012	93	4504	0.1169	
80 Tetrachloroethene	166	19.475	19.474	0.006	93	53882	2.71	
83 Chlorobenzene	112	21.136	21.148	-0.006	51	2313	0.0688	
86 Ethylbenzene	91	21.324	21.318	0.012	98	25964	0.4847	
87 m-Xylene & p-Xylene	91	21.513	21.501	0.018	93	9290	0.2241	
88 o-Xylene	91	22.407	22.408	0.006	92	2850	0.0691	
89 Styrene	104	22.438	22.438	0.006	94	7893	0.2480	
102 4-Ethyltoluene	120	24.281	24.270	0.018	80	399	0.0230	

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

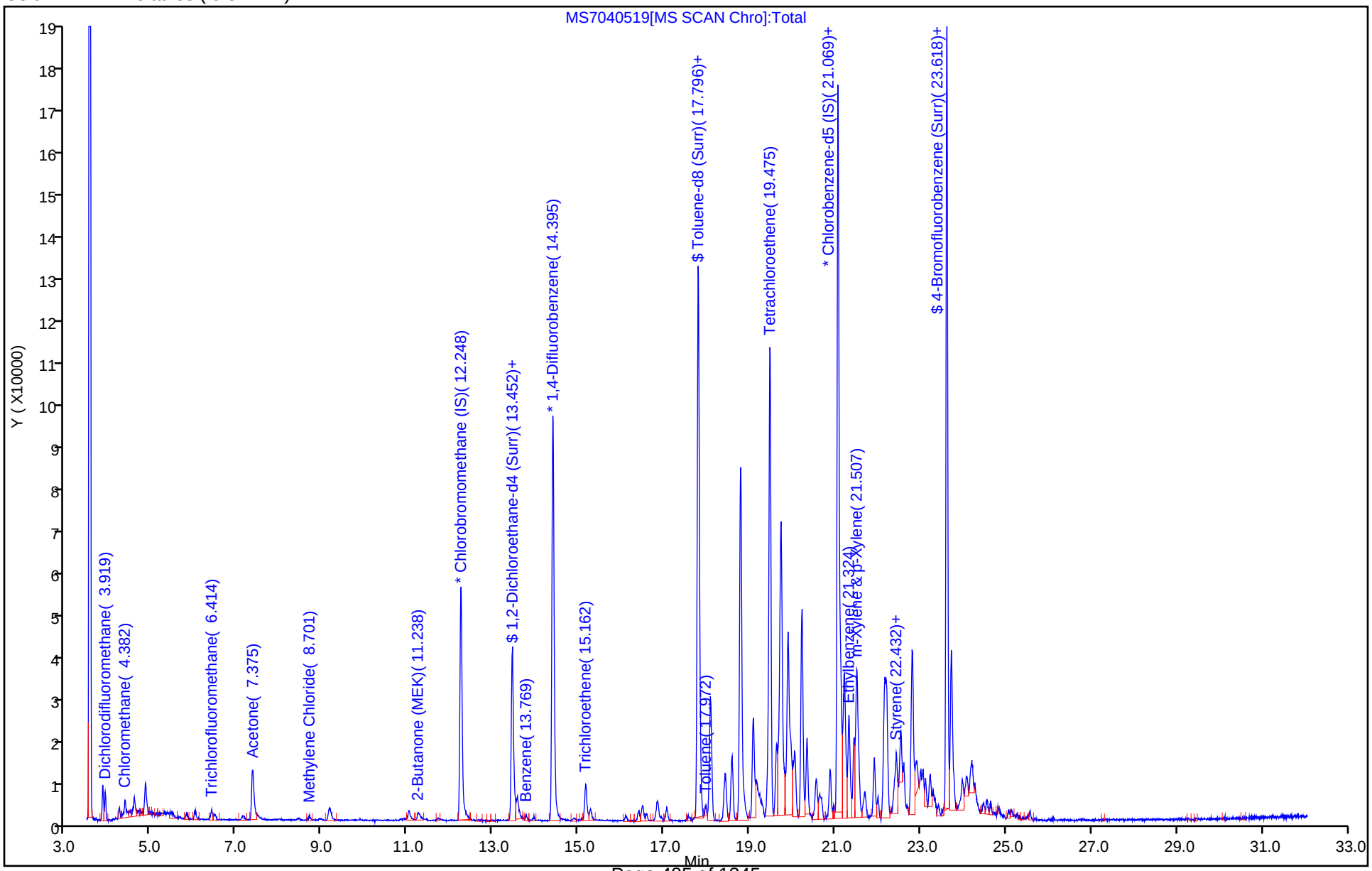
Report Date: 06-Apr-2018 18:36:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20	Worklist Smp#:	17
Client ID:	785OA-1_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D
Lims ID: 320-37345-A-20
Client ID: 785OA-1_0318
Sample Type: Client
Inject. Date: 06-Apr-2018 03:44:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-20
Misc. Info.: 376 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 18:36:52 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 18:36:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.42	110.49
$ 5 Toluene-d8 (Surr)	4.00	4.04	101.09
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.54	88.59

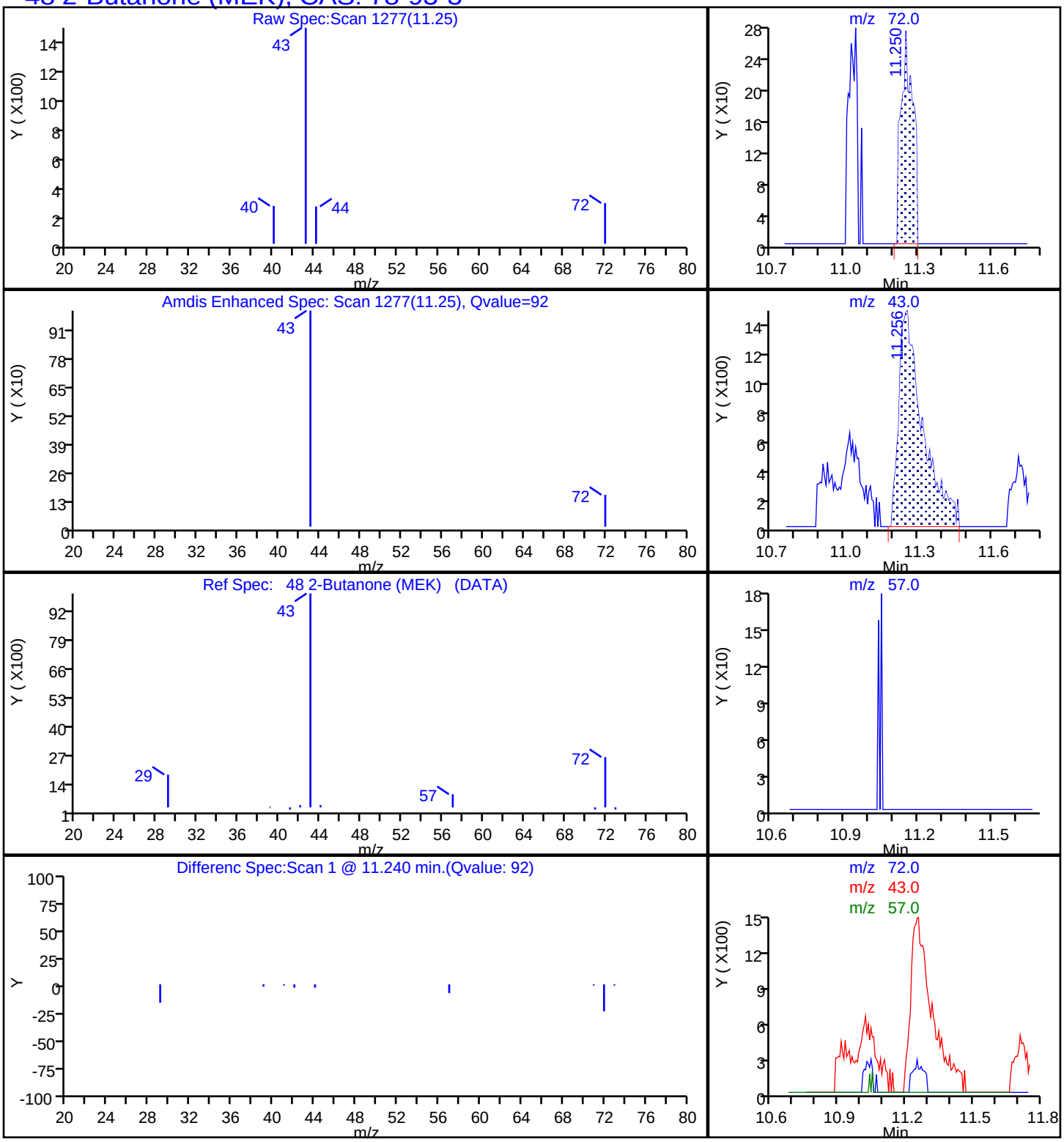
Report Date: 06-Apr-2018 18:36:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



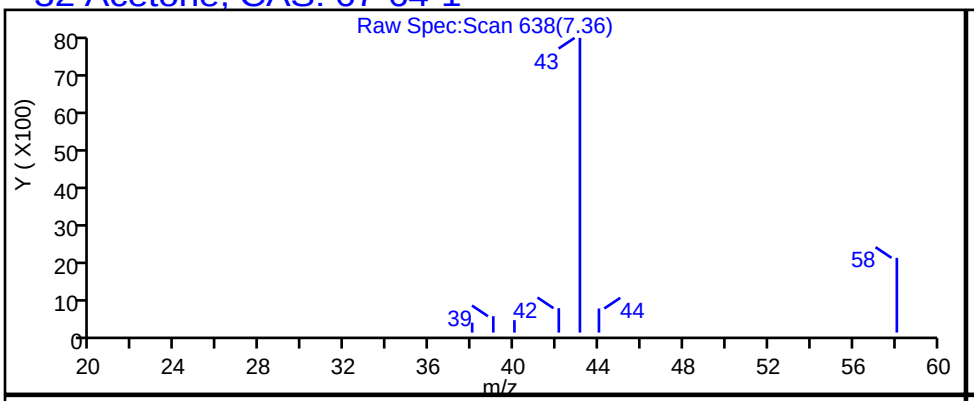
Report Date: 06-Apr-2018 18:36:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

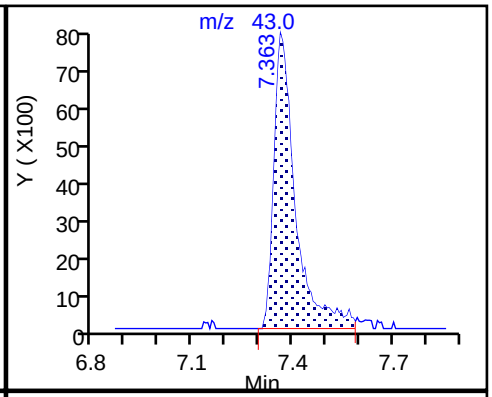
TestAmerica Sacramento

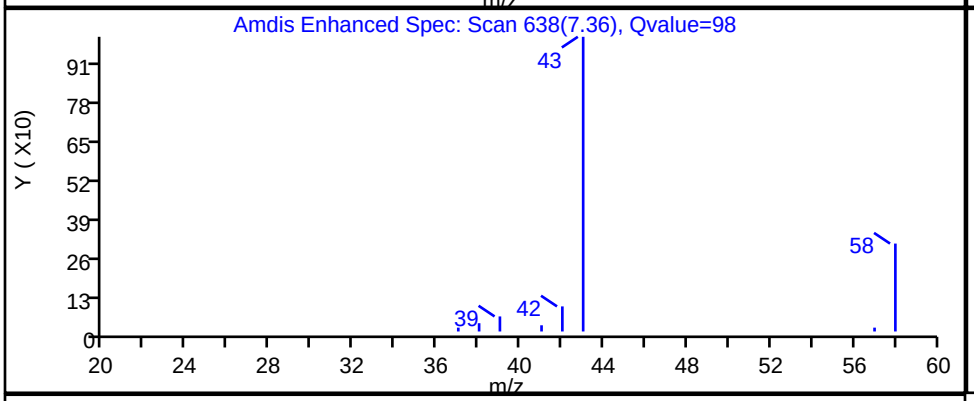
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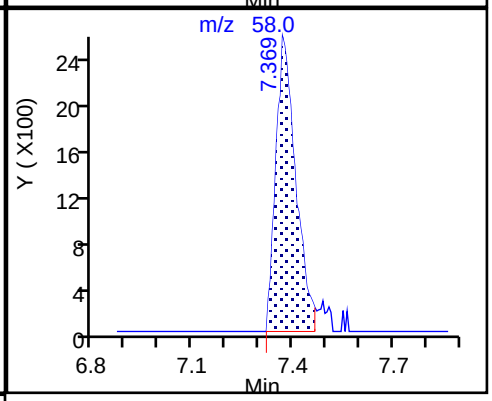
Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

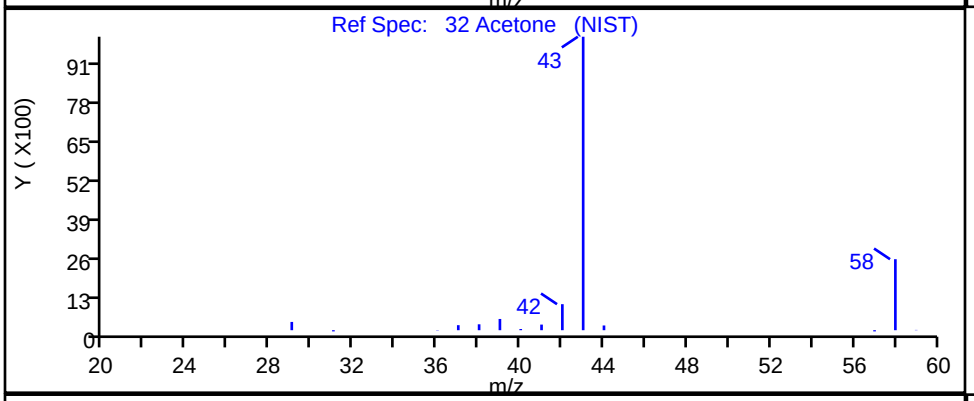
32 Acetone, CAS: 67-64-1

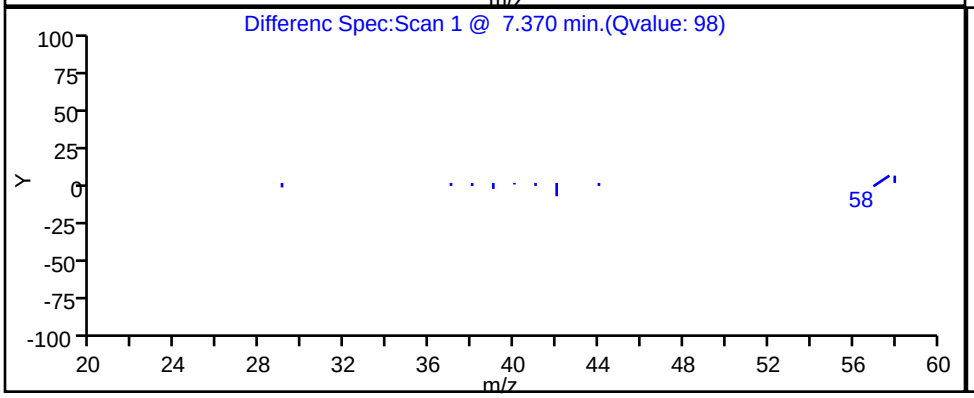


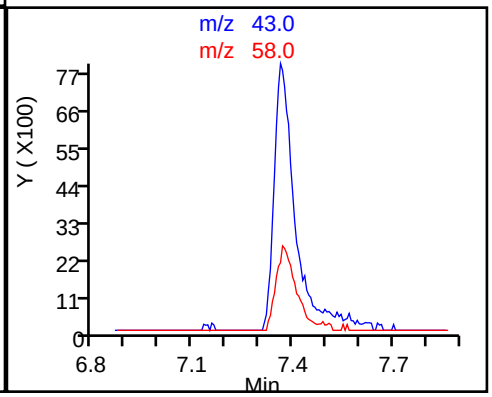












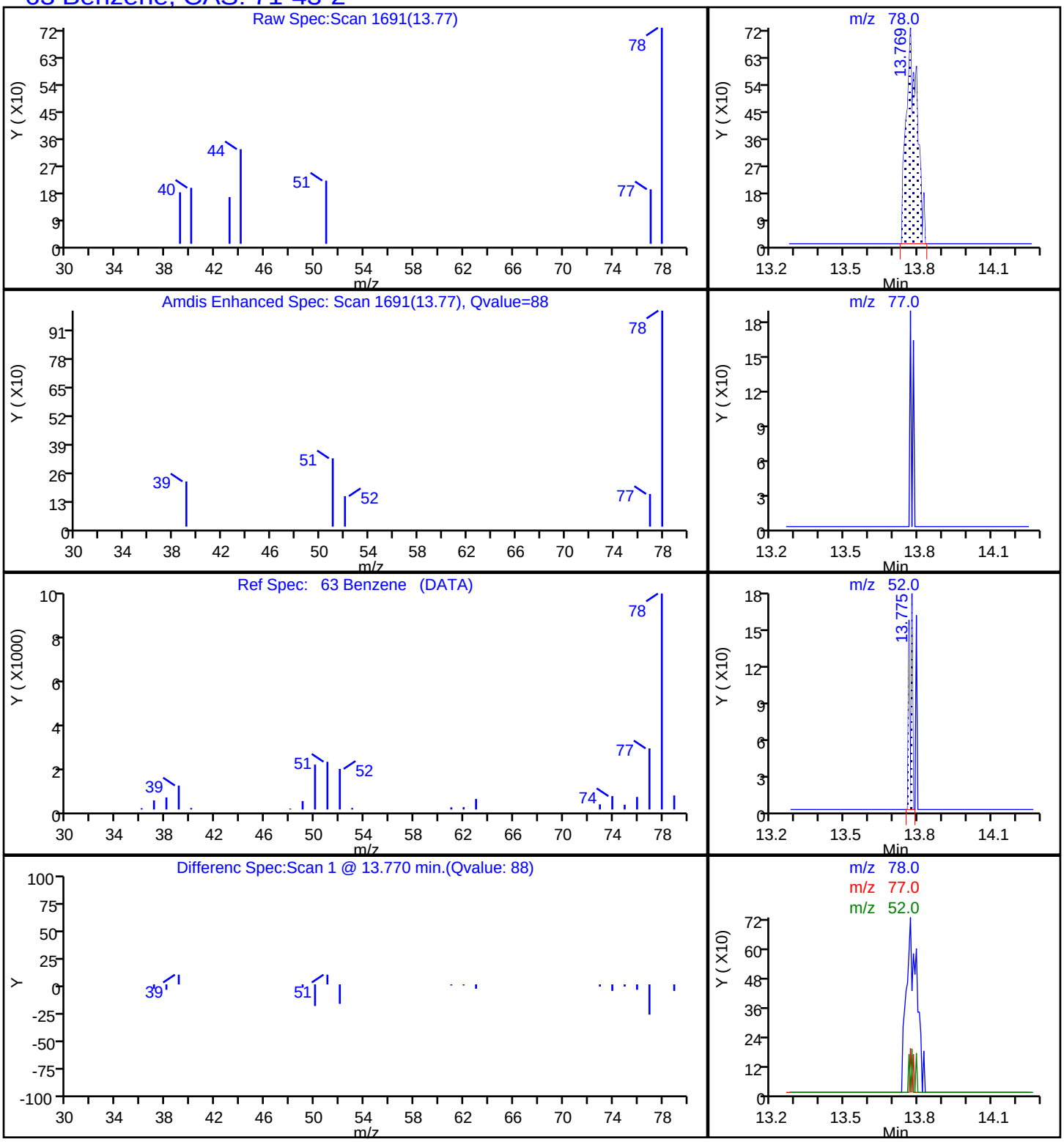
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



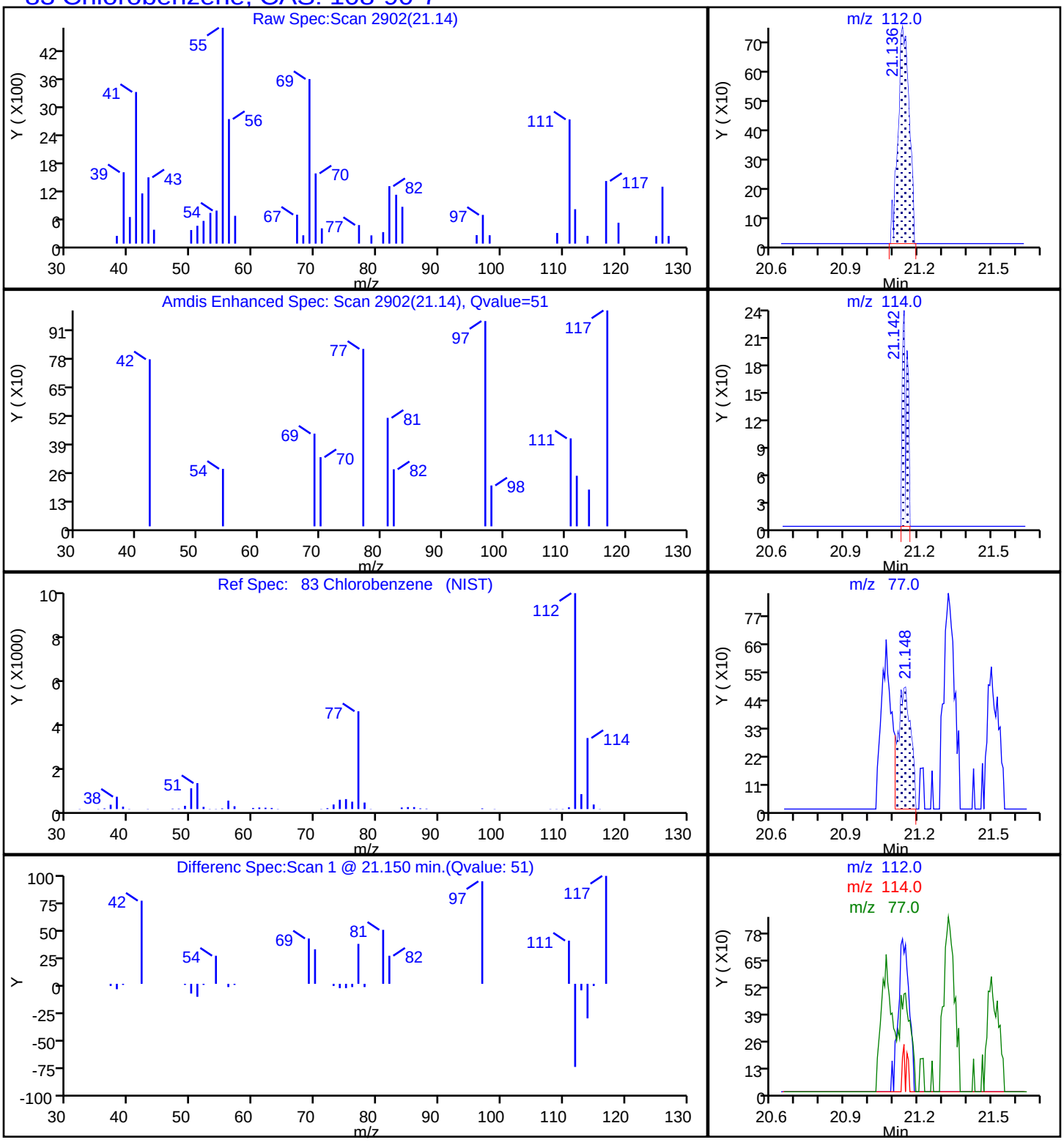
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

83 Chlorobenzene, CAS: 108-90-7



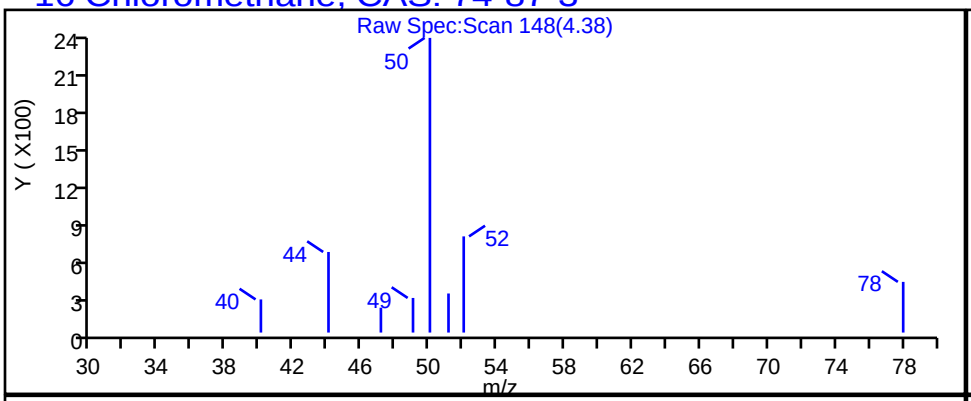
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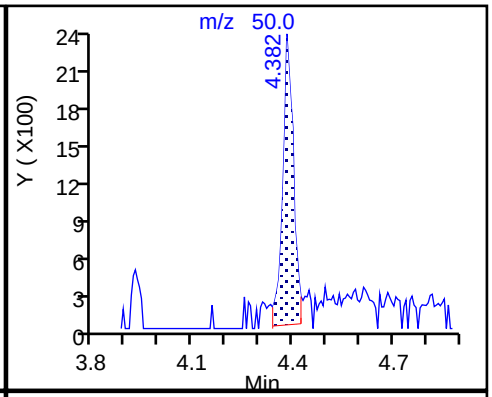
TestAmerica Sacramento

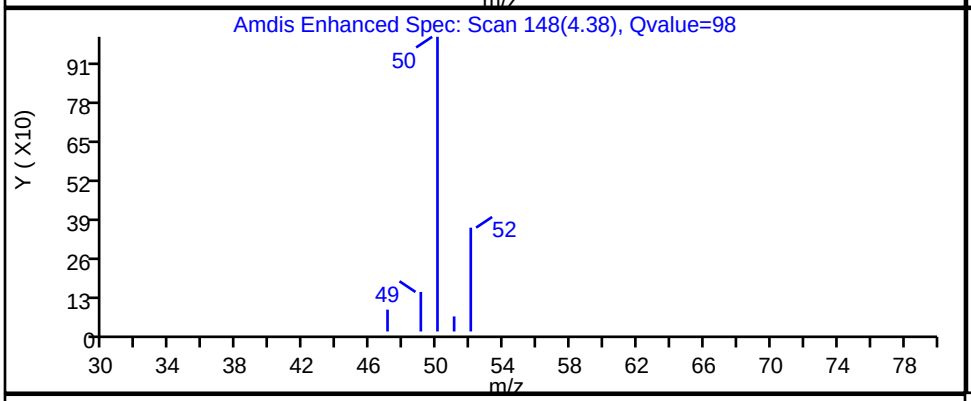
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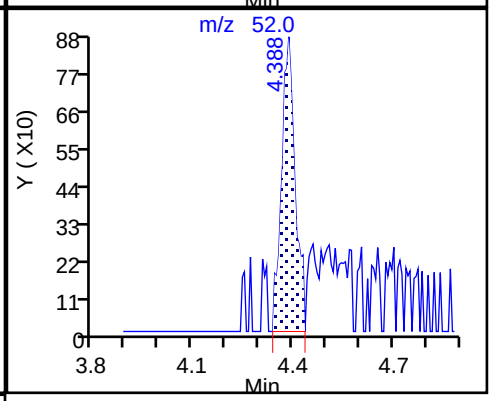
Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

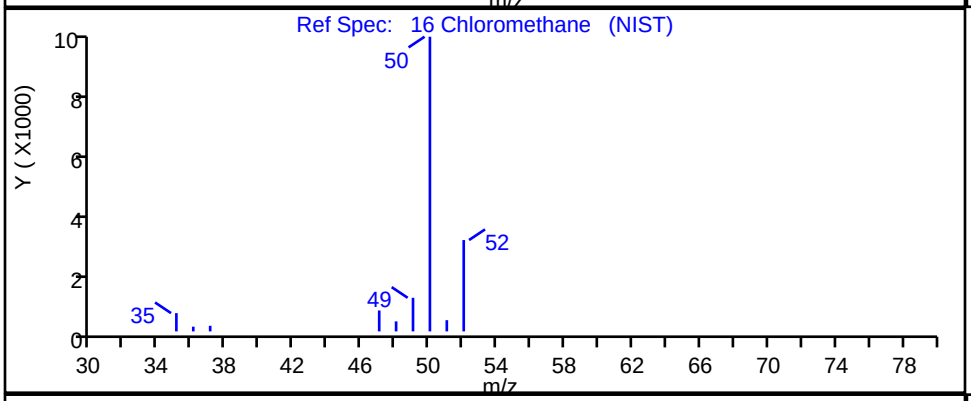
16 Chloromethane, CAS: 74-87-3

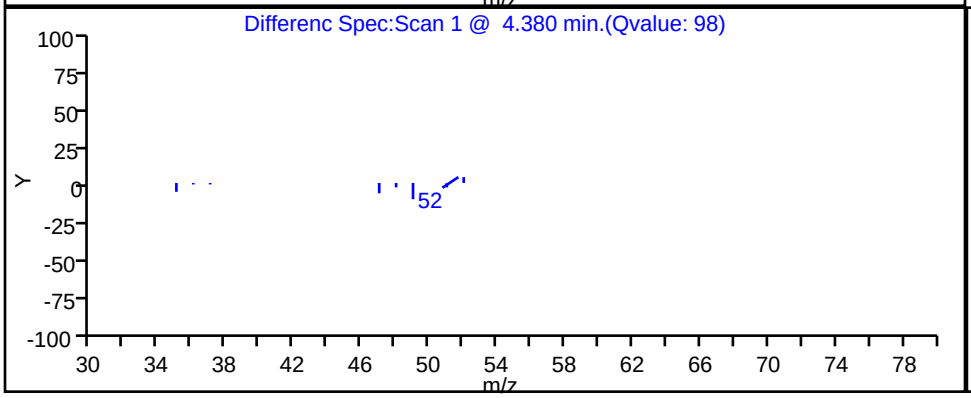


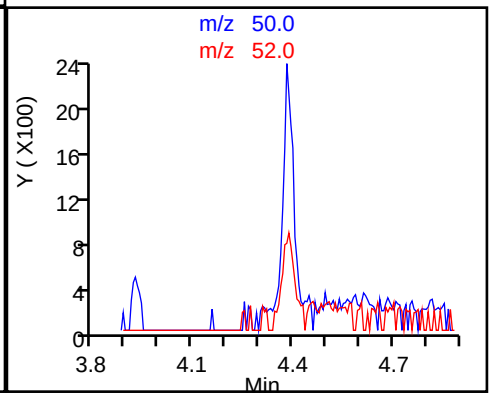












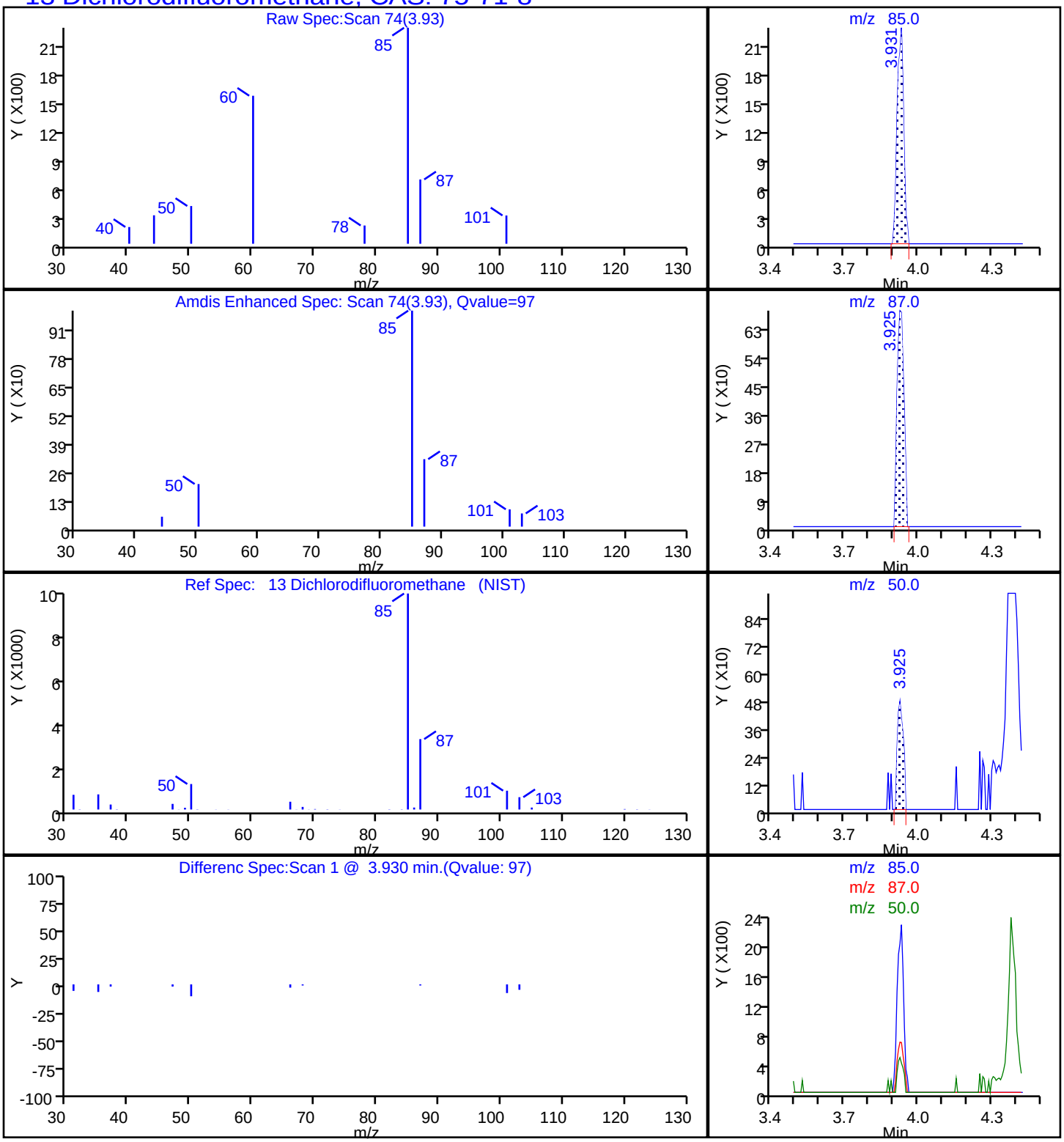
Report Date: 06-Apr-2018 18:36:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



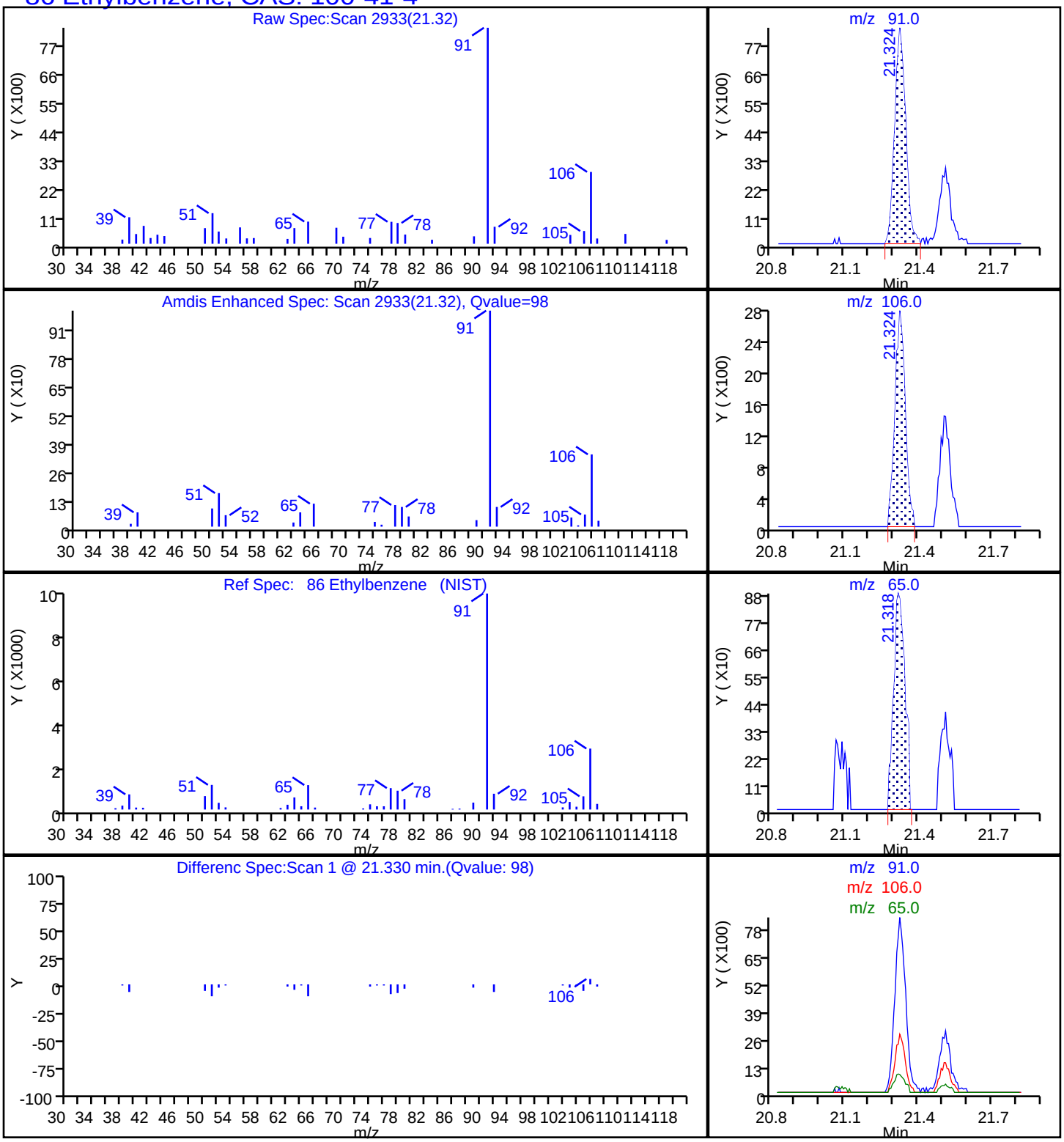
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20		
Client ID:	785OA-1_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

86 Ethylbenzene, CAS: 100-41-4



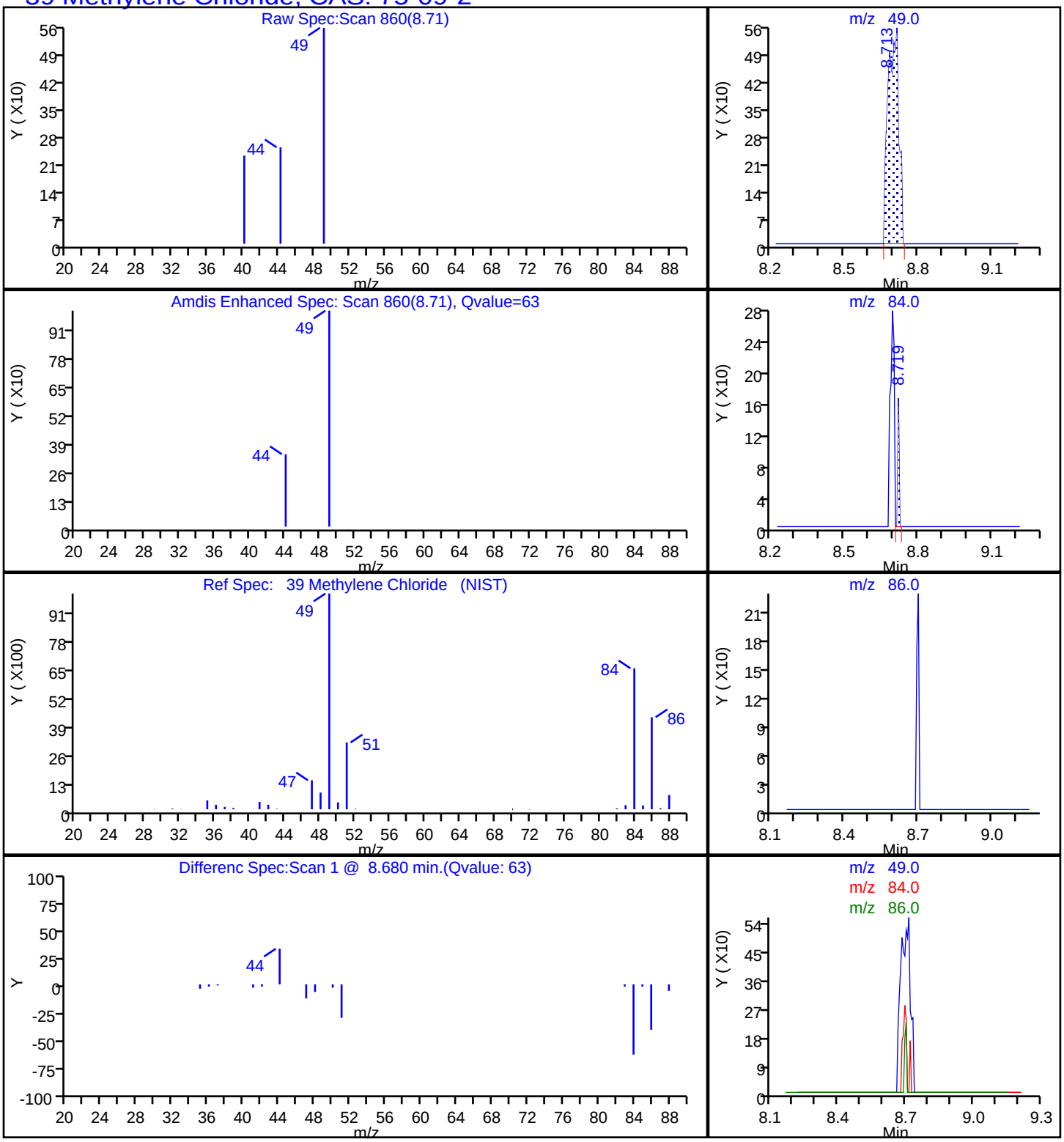
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20		
Client ID:	785OA-1_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

39 Methylene Chloride, CAS: 75-09-2



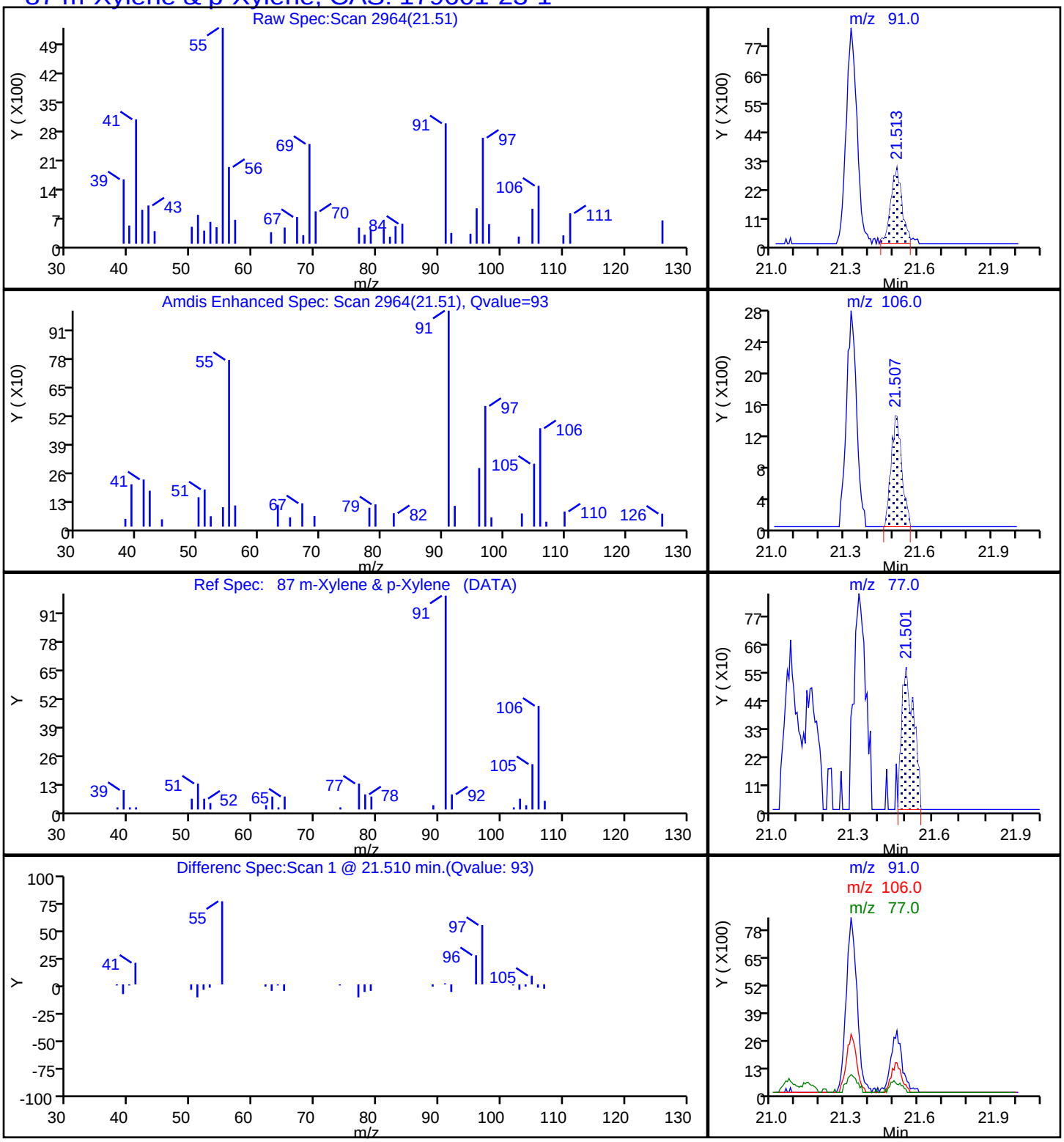
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20		
Client ID:	785OA-1_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

87 m-Xylene & p-Xylene, CAS: 179601-23-1



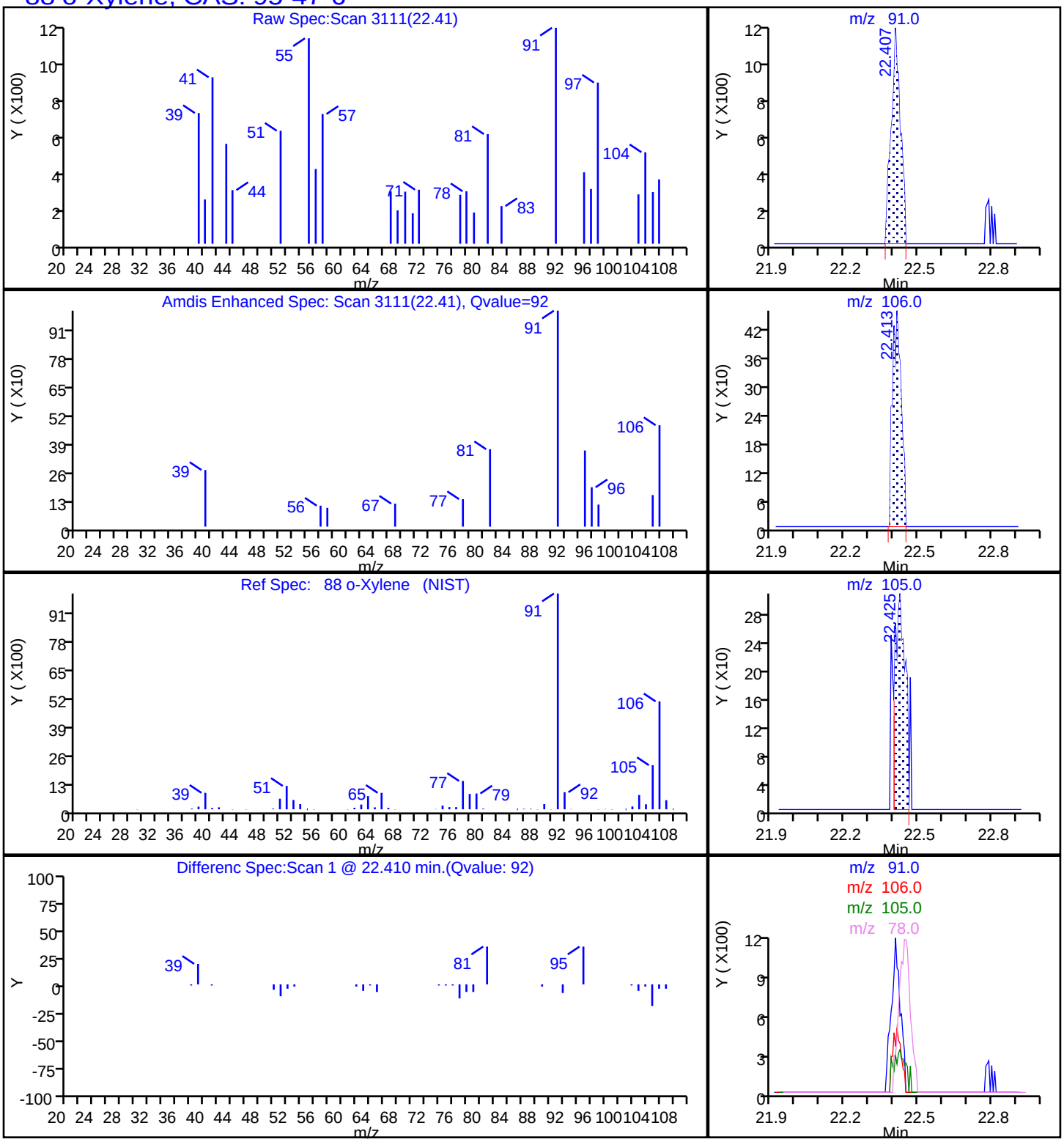
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



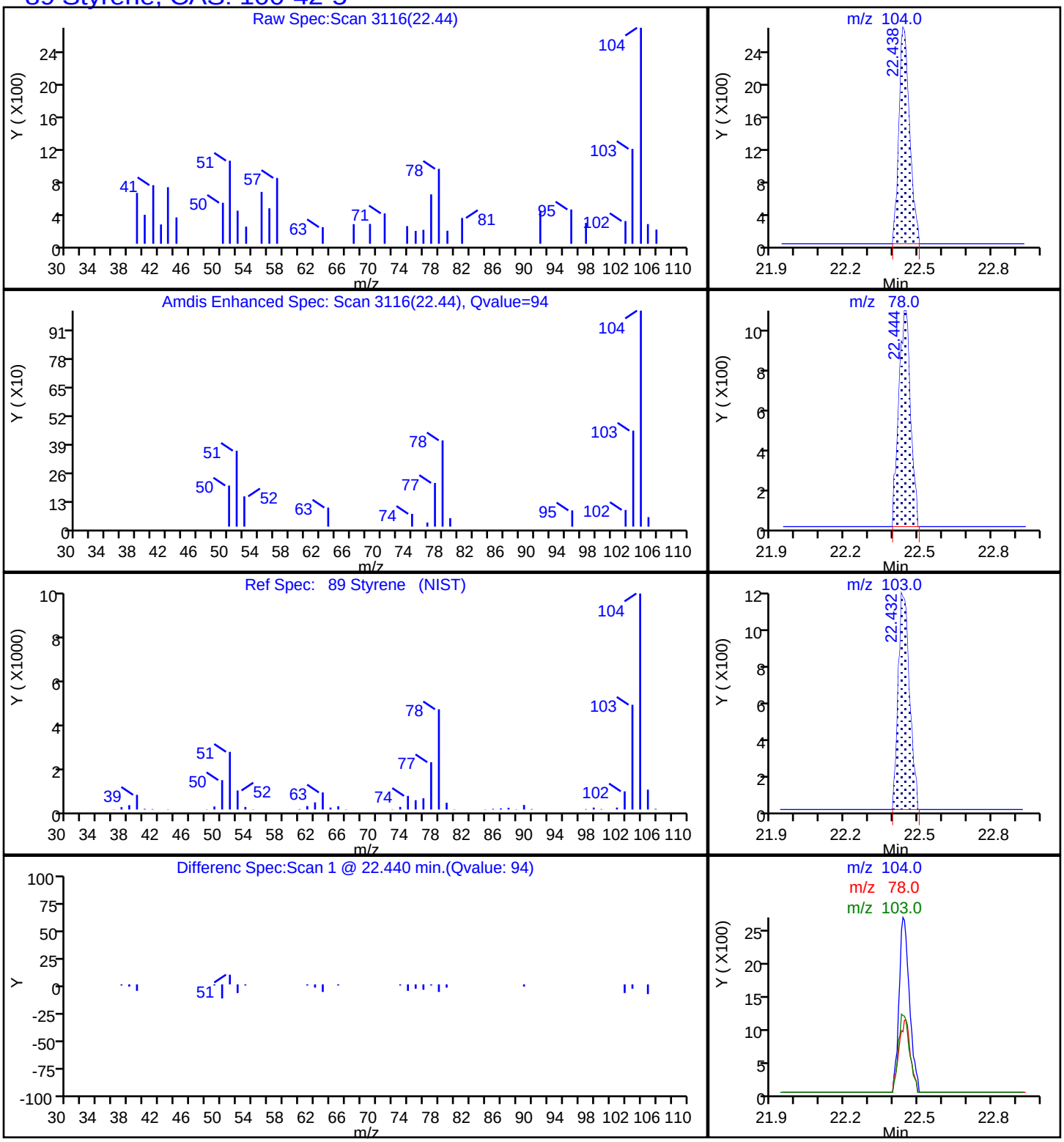
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

89 Styrene, CAS: 100-42-5



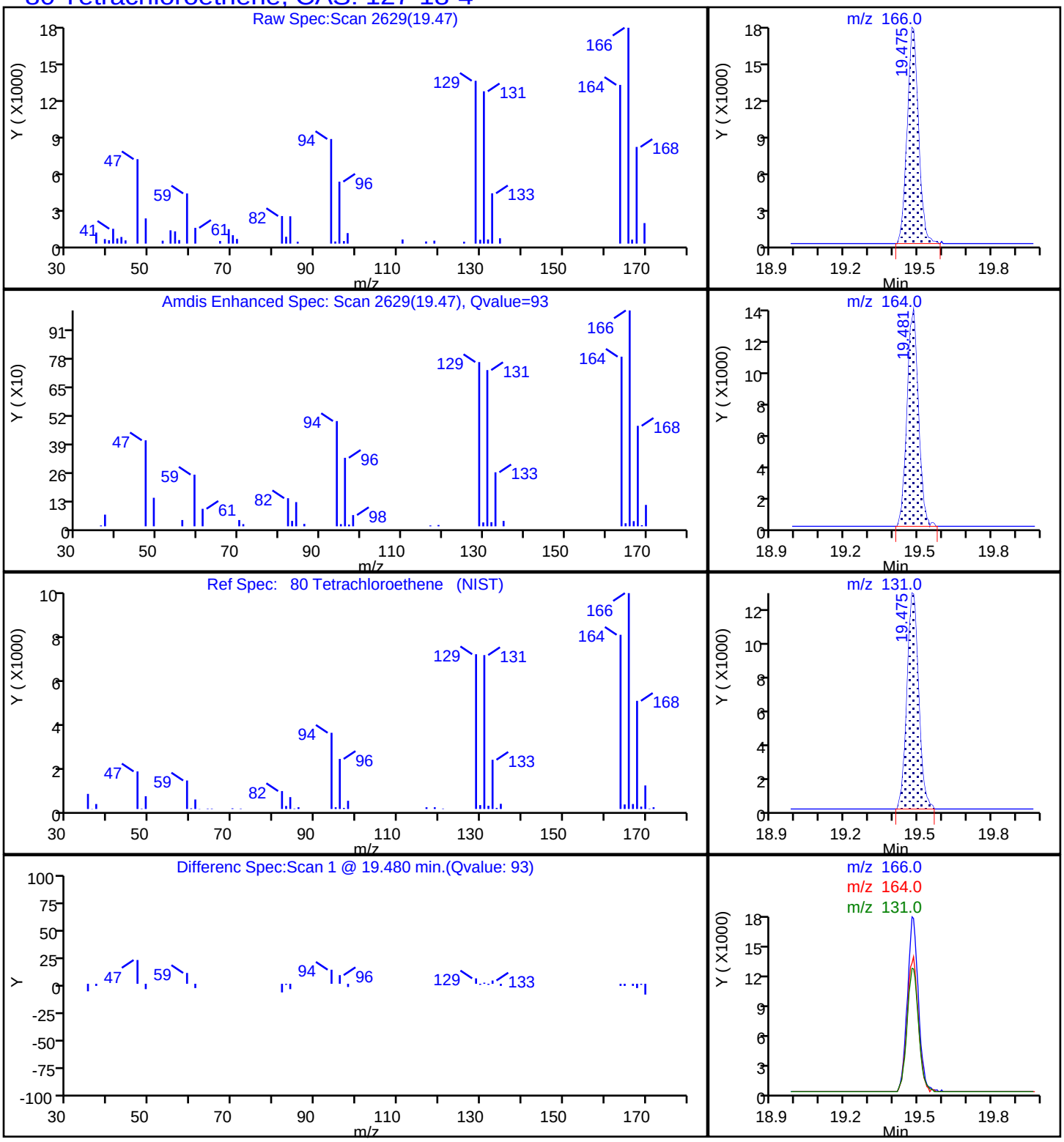
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



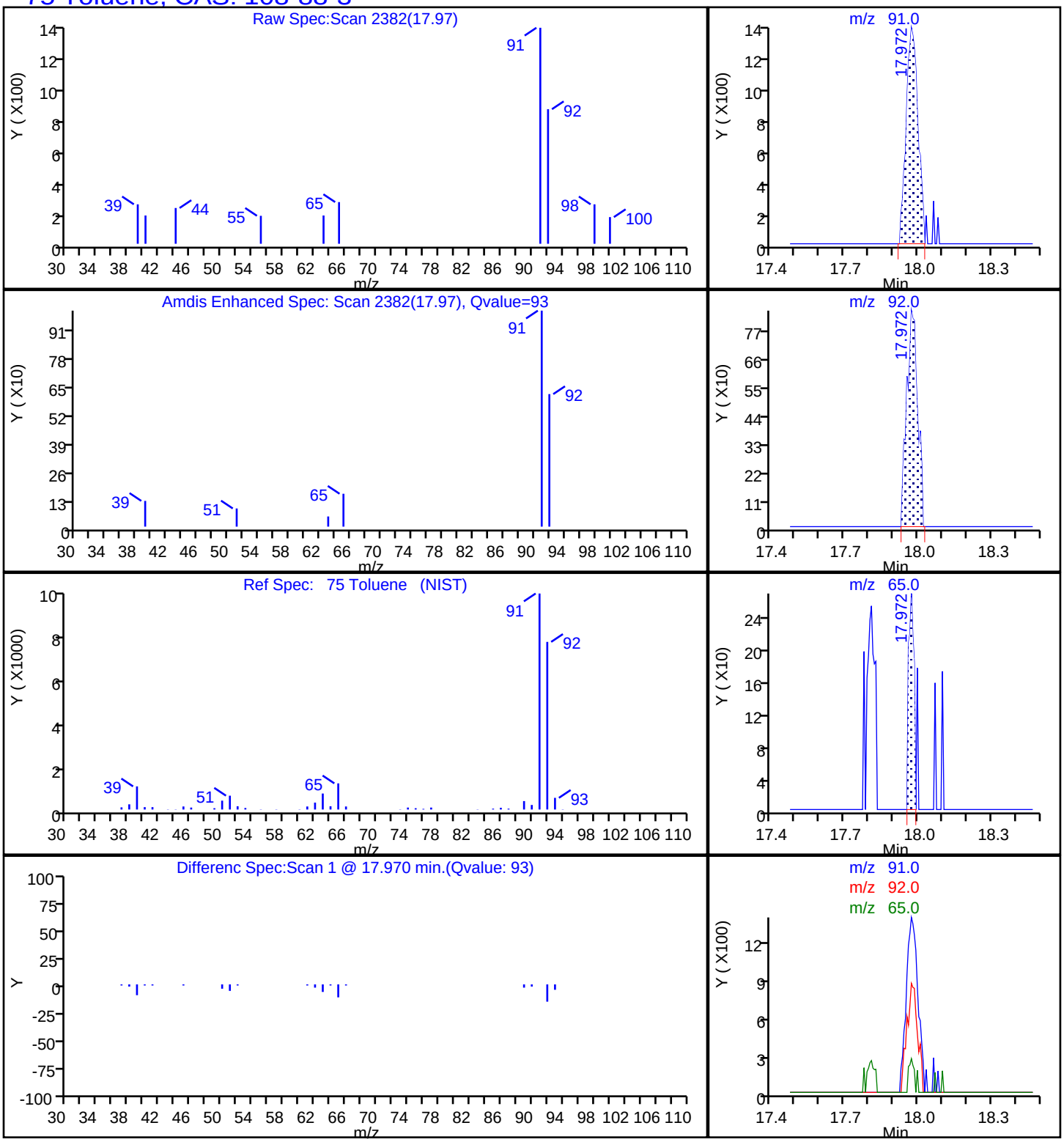
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



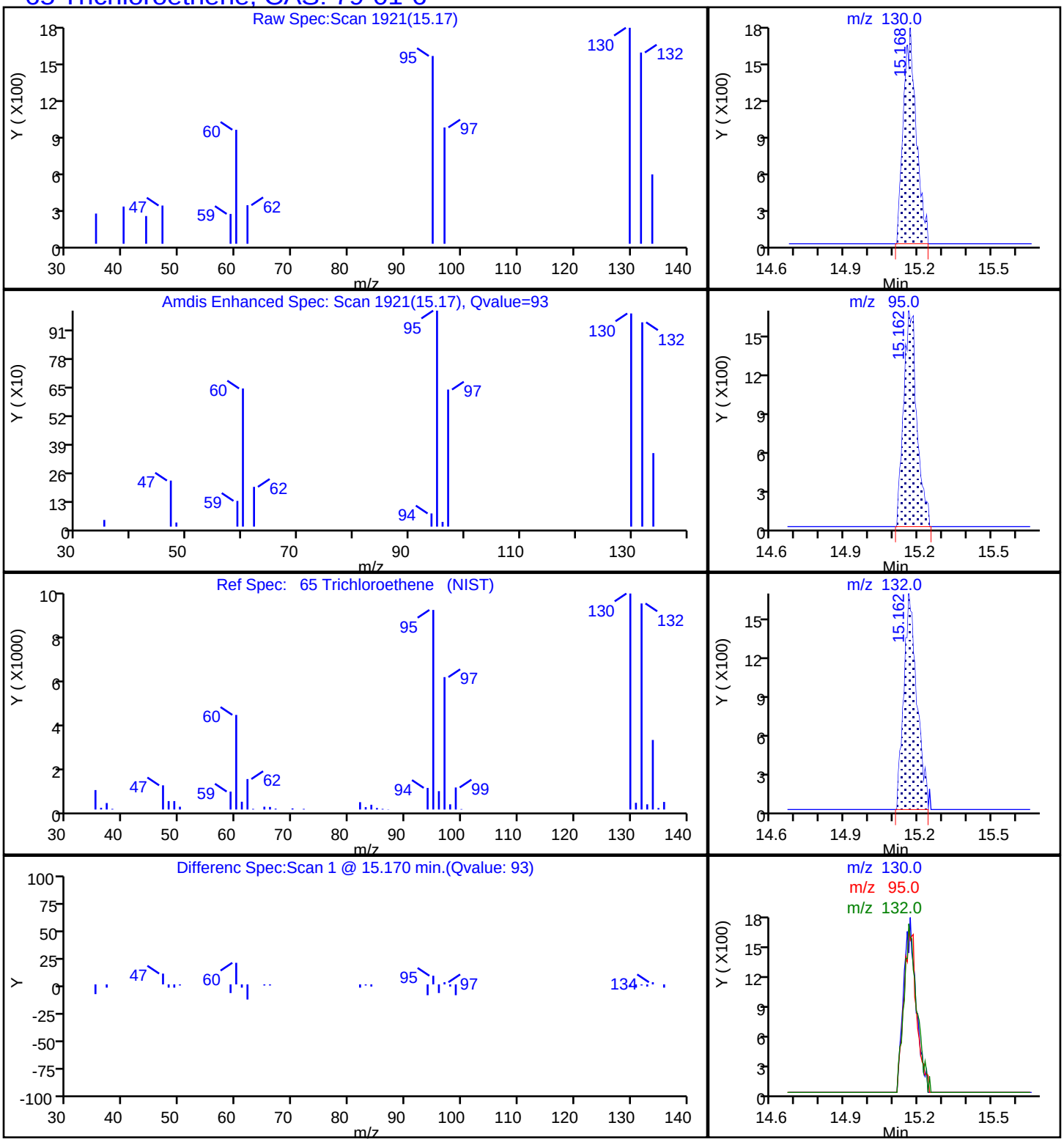
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D

Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



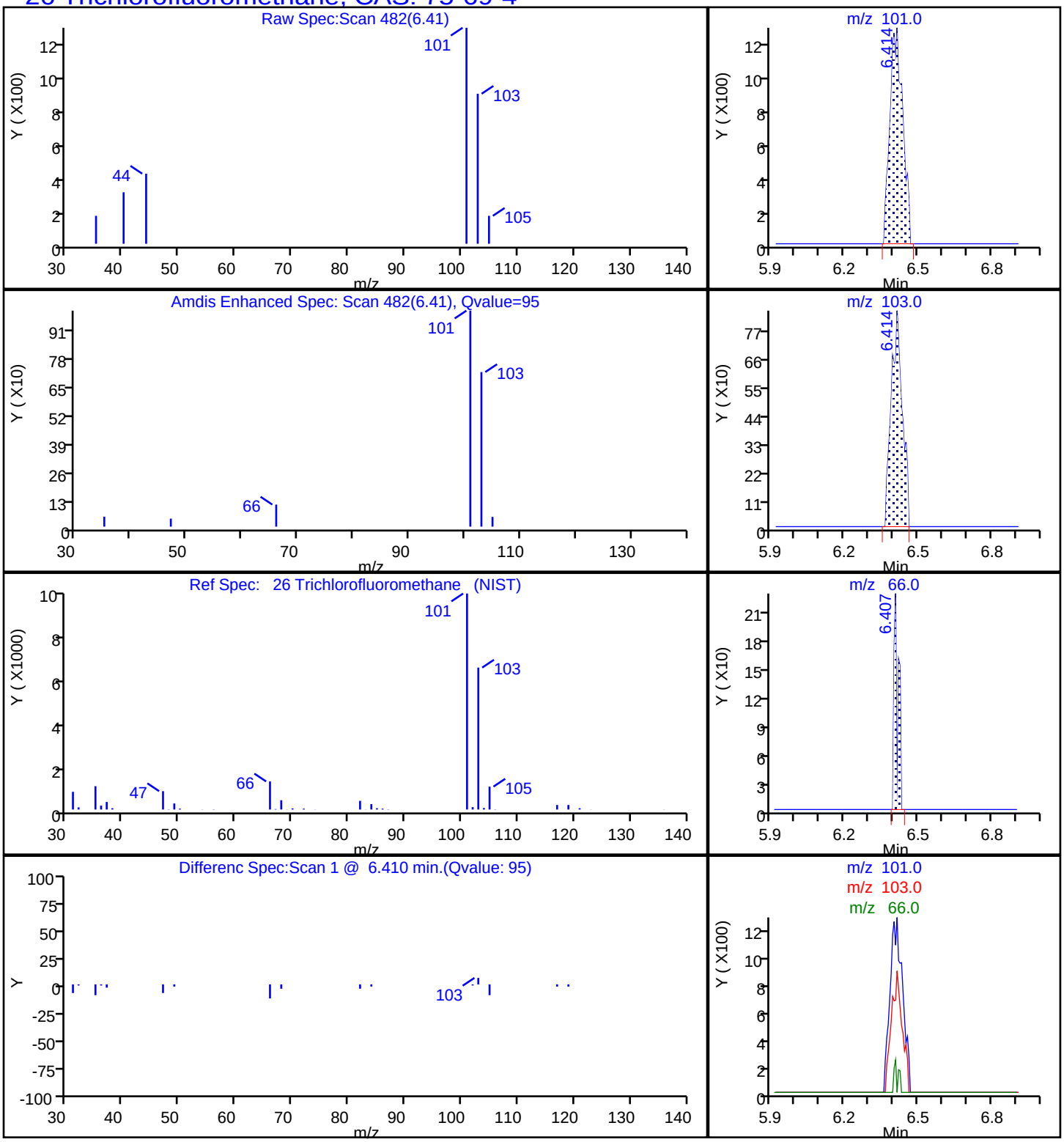
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TestAmerica Sacramento

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Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20
Client ID:	785OA-1_0318		
Operator ID:	LHS	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



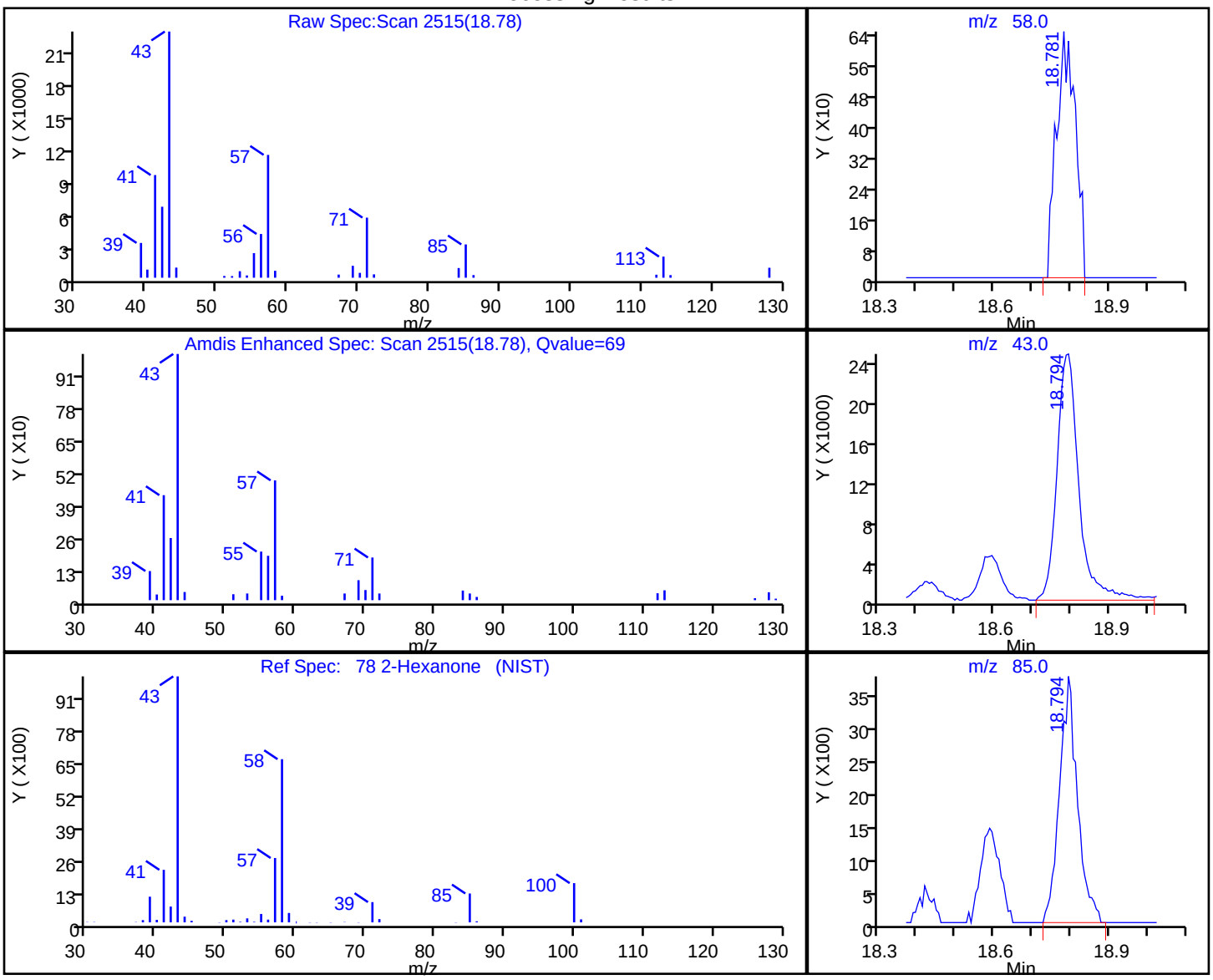
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D				
Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20		
Client ID:	785OA-1_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
18.78	58.00	2227	0.119539
18.79	43.00	97660	
18.79	85.00	12420	

Reviewer: phanthasena, 06-Apr-2018 18:36:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

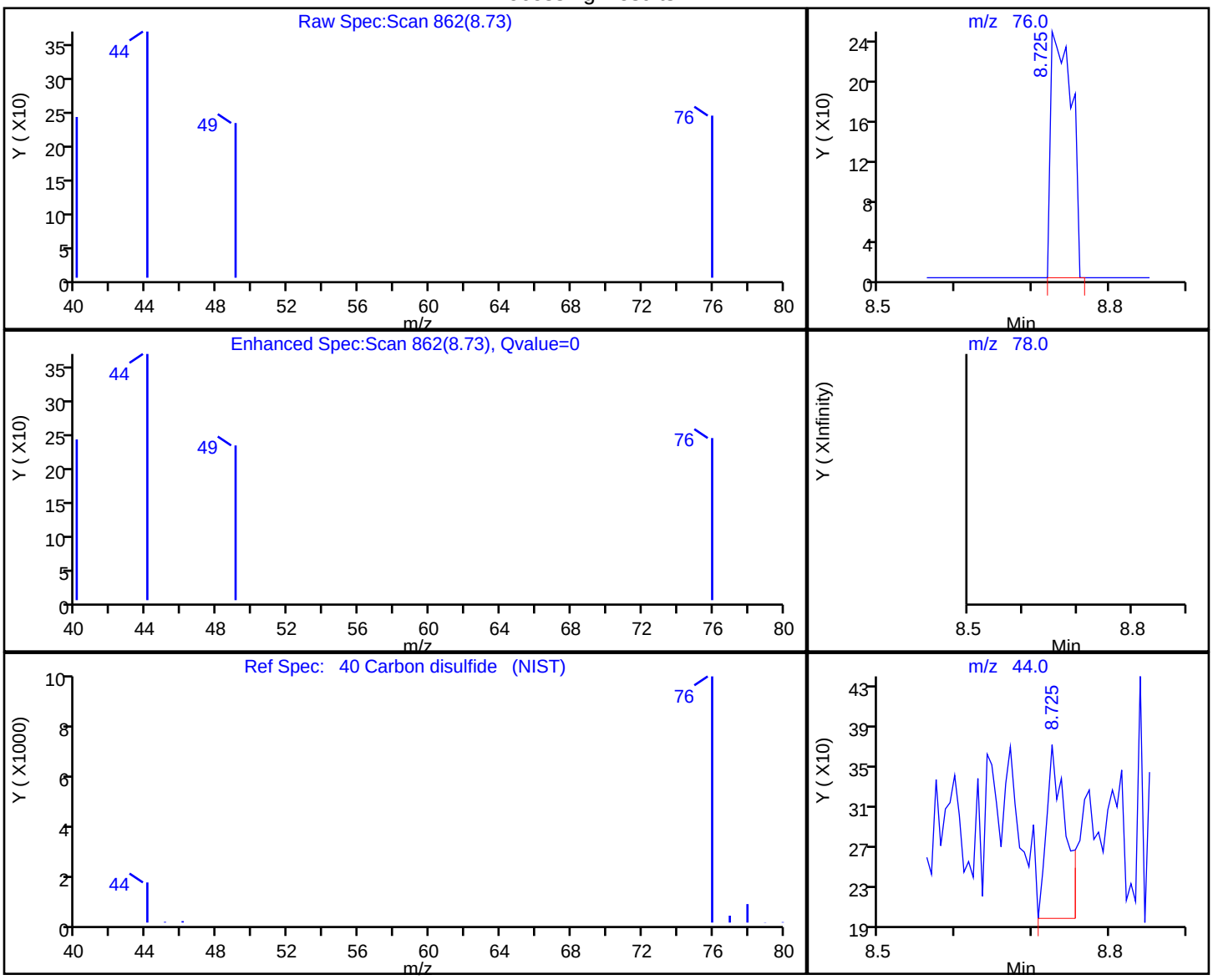
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040519.D				
Injection Date:	06-Apr-2018 03:44:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-20	Lab Sample ID:	320-37345-20		
Client ID:	785OA-1_0318				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.73	76.00	456	0.031227
8.71	78.00	0	
8.73	44.00	279	

Reviewer: phanthasena, 06-Apr-2018 18:36:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774776INF_0318 | Lab Sample ID: 320-37345-21

Matrix: Air | Lab File ID: MS7040509.D

Analysis Method: TO-15 | Date Collected: 03/09/2018 11:07

Sample wt/vol: 328(mL) | Date Analyzed: 04/05/2018 18:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 216406 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.5	J	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U M	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	0.68	J	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U M	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	19		12	0.95	0.42
71-43-2	Benzene	0.99	J	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	11		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	1.2	J	1.5	0.98	0.46
74-87-3	Chloromethane	1.8		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774776INF_0318 Lab Sample ID: 320-37345-21

Matrix: Air Lab File ID: MS7040509.D

Analysis Method: TO-15 Date Collected: 03/09/2018 11:07

Sample wt/vol: 328(mL) Date Analyzed: 04/05/2018 18:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	3.0	J	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.29	J	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.50	J	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	1.0	J	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U M	10	6.3	2.9
95-47-6	o-Xylene	0.47	J	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	0.76	J	2.7	1.4	0.35
108-88-3	Toluene	0.81	J	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U M	1.8	0.91	0.40
79-01-6	Trichloroethene	57		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	35		4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	0.54	J M	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D
Lims ID: 320-37345-A-21
Client ID: 774776INF_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 18:23:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-21
Misc. Info.: 328 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:34:02 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:34:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.236	12.223	0.013	93	28582	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.383	0.006	96	123920	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.063	0.006	91	108075	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.440	13.428	0.012	97	52223	4.47	
$ 5 Toluene-d8 (Surr)	100	17.796	17.784	0.012	97	79607	3.69	
$ 6 4-Bromofluorobenzene (Surr	95	23.612	23.606	0.006	86	77141	3.84	
13 Dichlorodifluoromethane	85	3.913	3.909	0.006	98	7088	0.6152	
16 Chloromethane	50	4.376	4.357	0.019	97	5359	0.8676	
26 Trichlorofluoromethane	101	6.401	6.392	0.012	98	98665	6.25	
32 Acetone	43	7.326	7.302	0.024	100	110125	8.20	
33 1,1,2-Trichloro-1,2,2-trif	101	7.502	7.502	0.030	1	1262	0.0973	Ma
39 Methylene Chloride	49	8.677	8.658	0.019	1	1593	0.1454	
40 Carbon disulfide	76	8.725	8.711	0.018	95	48503	3.62	
42 Methyl tert-butyl ether	73	9.133	9.241	-0.103	47	1718	0.0905	
48 2-Butanone (MEK)	72	11.226	11.176	0.055	93	844	0.2311	
53 Chloroform	83	11.974	11.962	0.018	94	3654	0.2517	
55 1,1,1-Trichloroethane	97	12.905	12.905	0.006	87	4298	0.2693	
59 Carbon tetrachloride	117	13.495	13.488	0.012	30	1526	0.0872	
63 Benzene	78	13.756	13.762	0.000	94	7199	0.3097	
65 Trichloroethene	130	15.162	15.156	0.012	96	117677	10.5	
69 1,4-Dioxane	88	15.977	15.977	0.049	8	961	0.1503	M
75 Toluene	91	17.978	17.968	0.018	90	7001	0.2141	
80 Tetrachloroethene	166	19.475	19.474	0.006	89	1572	0.1119	
86 Ethylbenzene	91	21.318	21.318	0.006	90	2530	0.0669	
87 m-Xylene & p-Xylene	91	21.507	21.501	0.012	96	6939	0.2372	
88 o-Xylene	91	22.419	22.408	0.018	0	3160	0.1085	
102 4-Ethyltoluene	120	24.263	24.263	0.000	94	469	0.0383	M
104 1,3,5-Trimethylbenzene	120	24.360	24.367	0.000	88	680	0.0377	
107 1,2,4-Trimethylbenzene	120	25.175	25.158	0.024	91	1793	0.1095	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

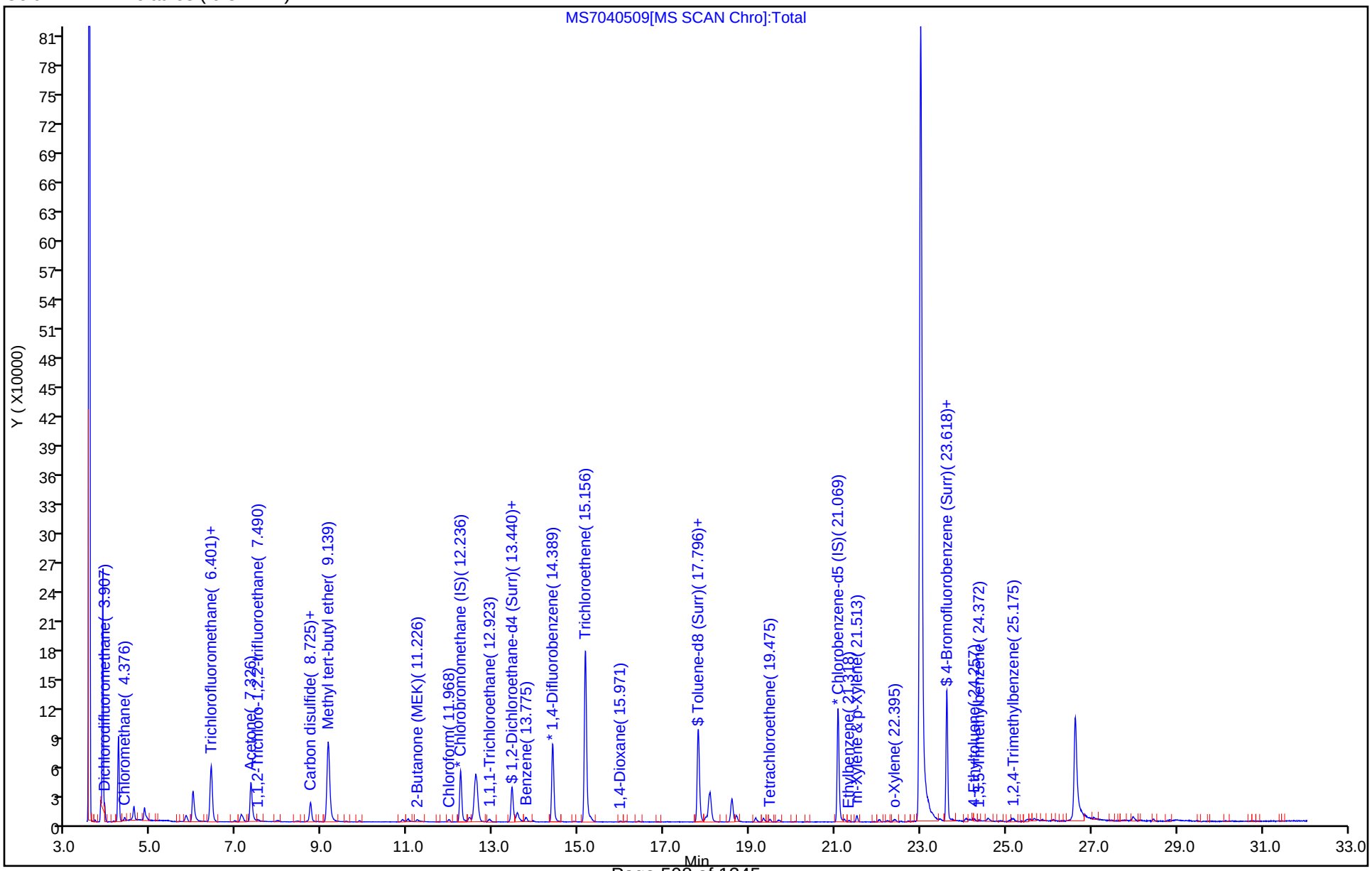
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21	Worklist Smp#:	7
Client ID:	774776INF_0318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D
Lims ID: 320-37345-A-21
Client ID: 774776INF_0318
Sample Type: Client
Inject. Date: 05-Apr-2018 18:23:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-21
Misc. Info.: 328 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:34:02 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:34:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.47	111.71
$ 5 Toluene-d8 (Surr)	4.00	3.69	92.20
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.84	96.06

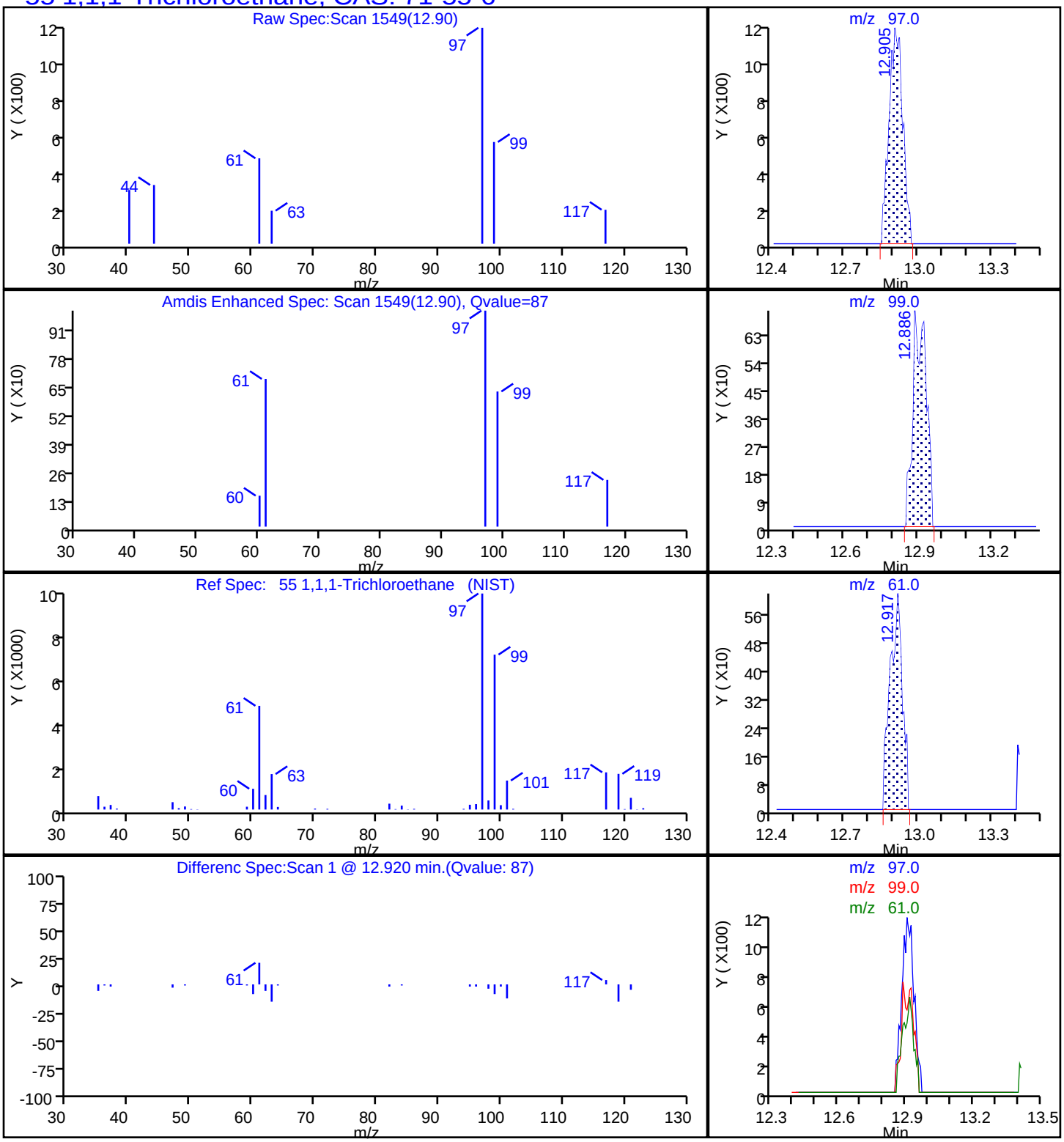
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

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



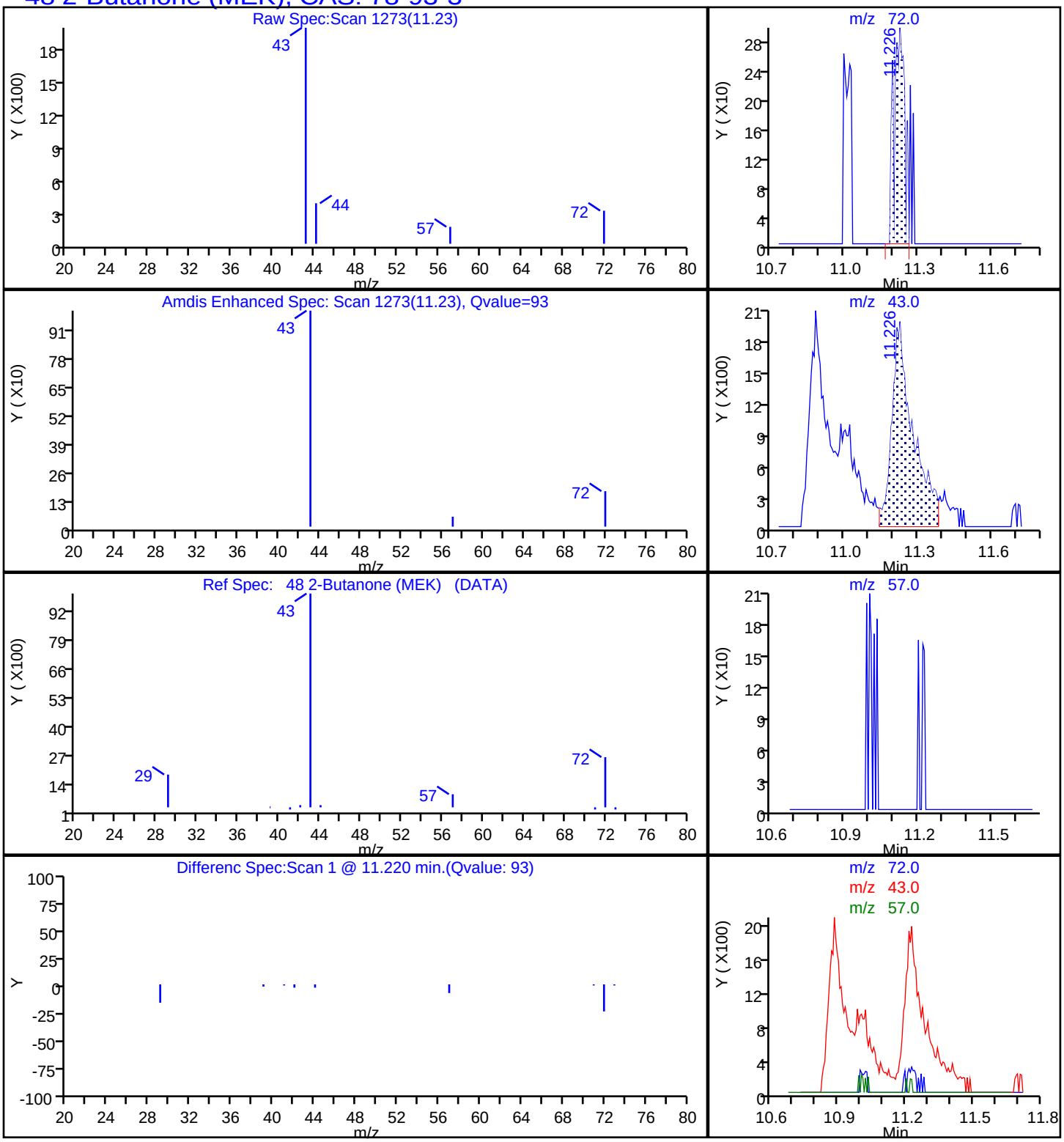
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 2-Butanone (MEK), CAS: 78-93-3



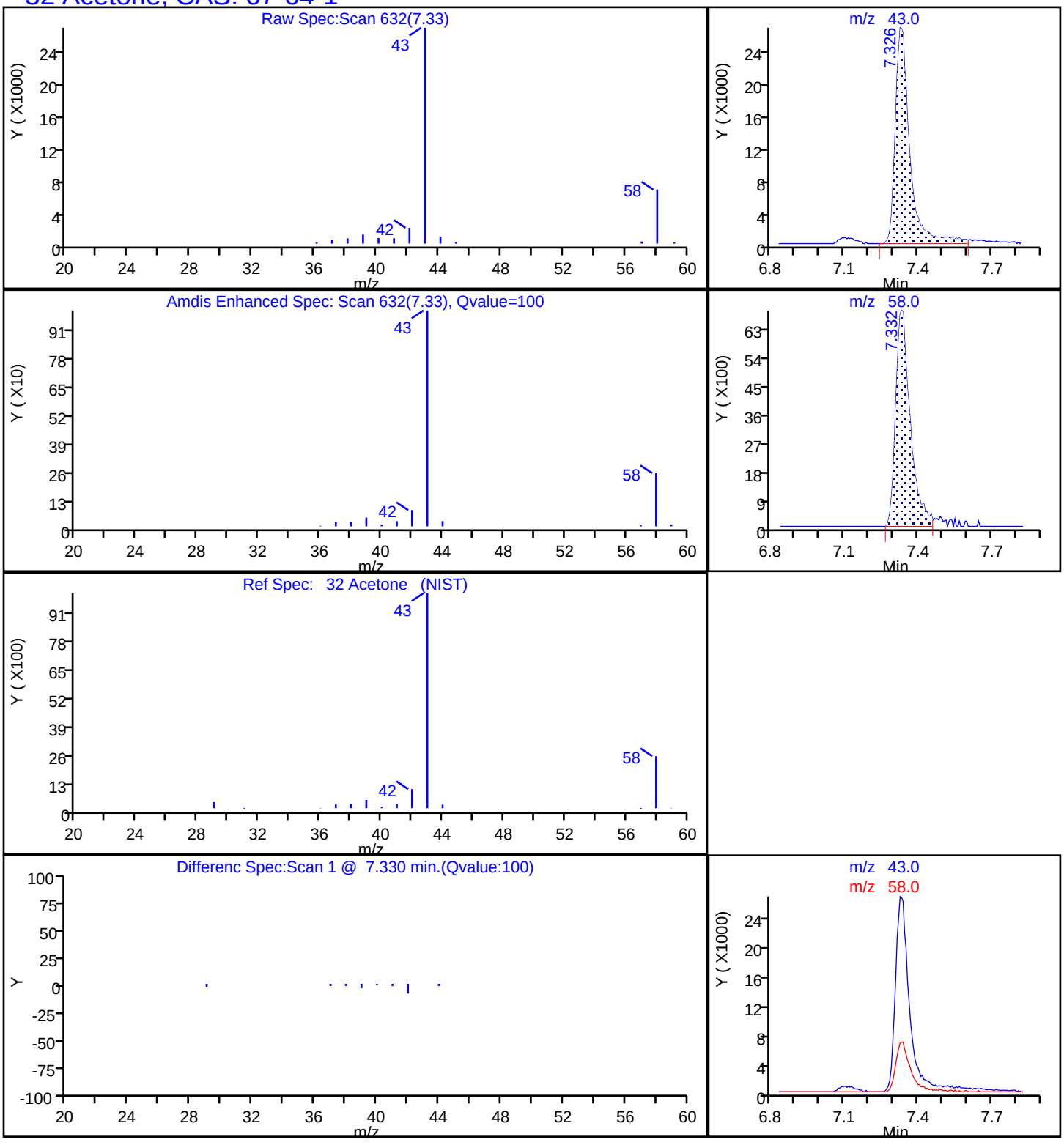
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

32 Acetone, CAS: 67-64-1



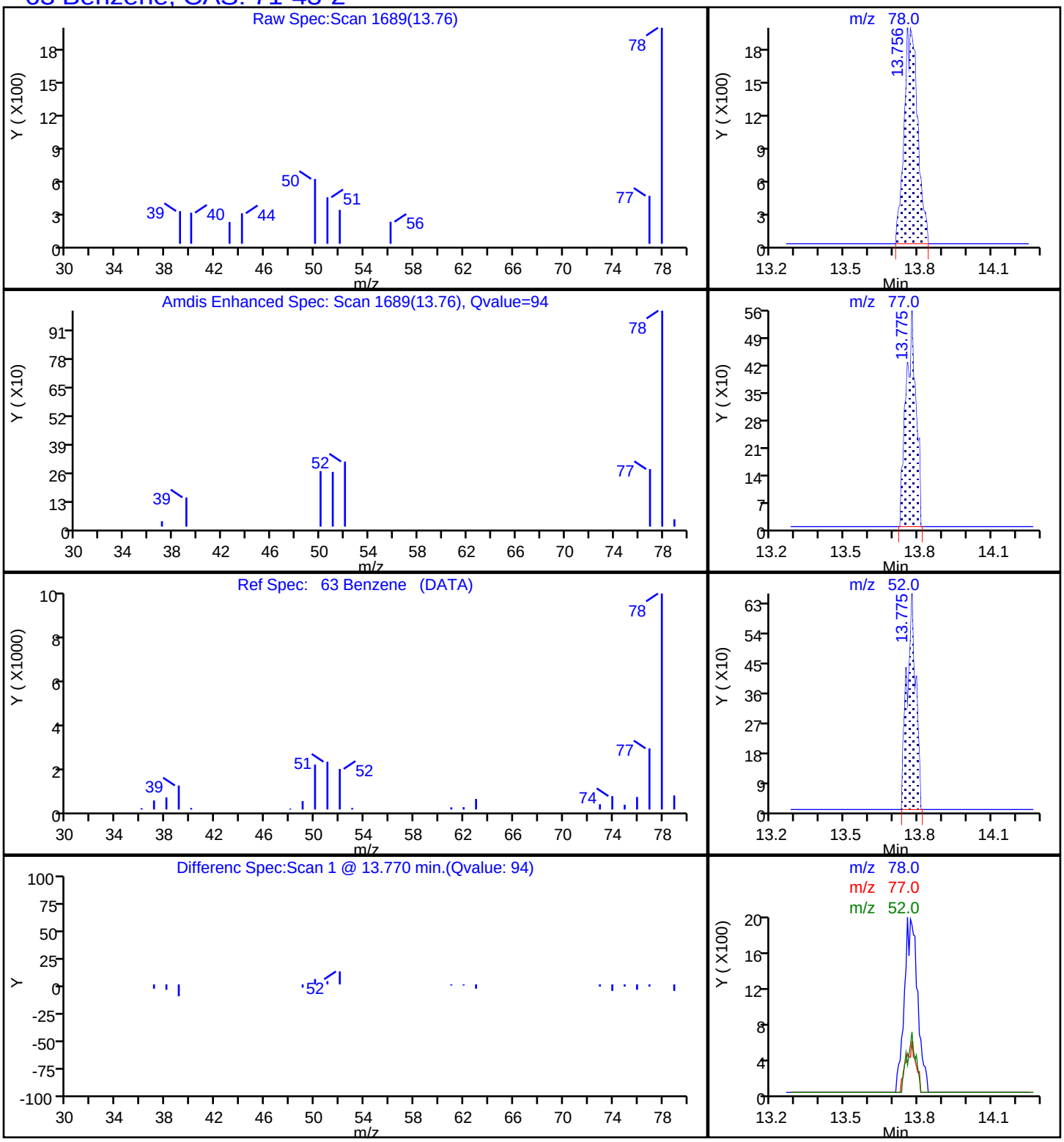
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

63 Benzene, CAS: 71-43-2



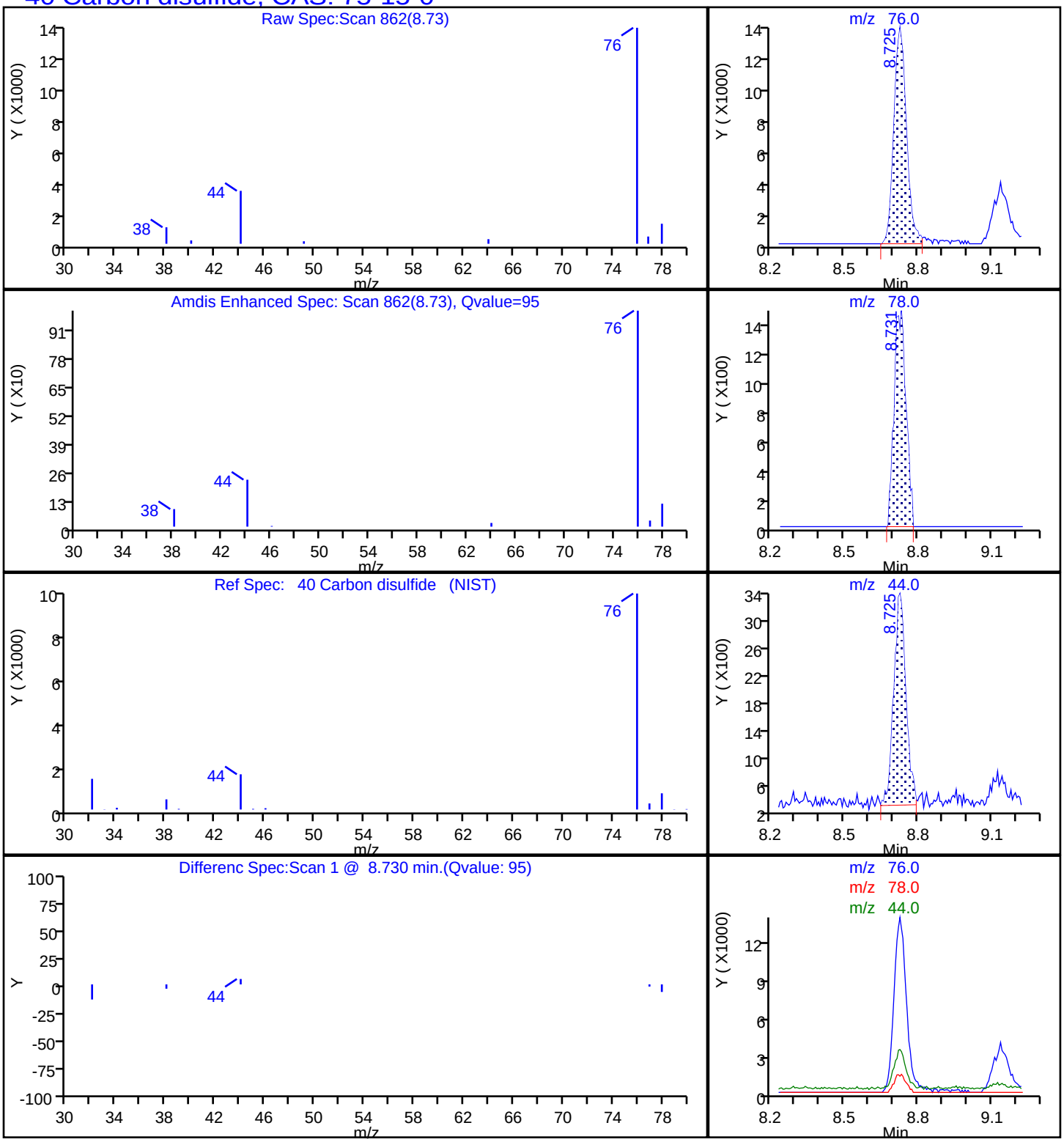
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TestAmerica Sacramento

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Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

40 Carbon disulfide, CAS: 75-15-0



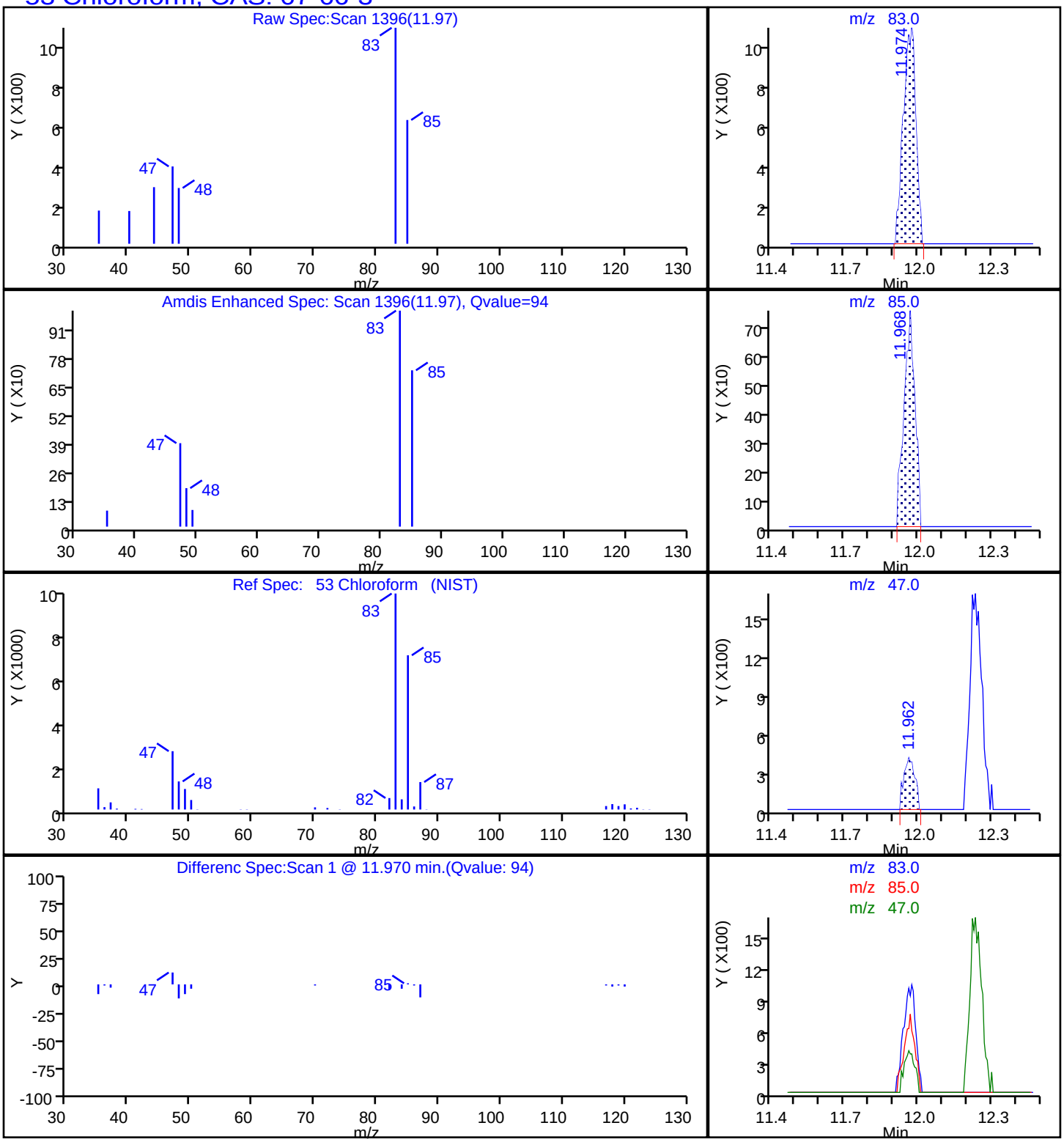
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TestAmerica Sacramento

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Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

53 Chloroform, CAS: 67-66-3



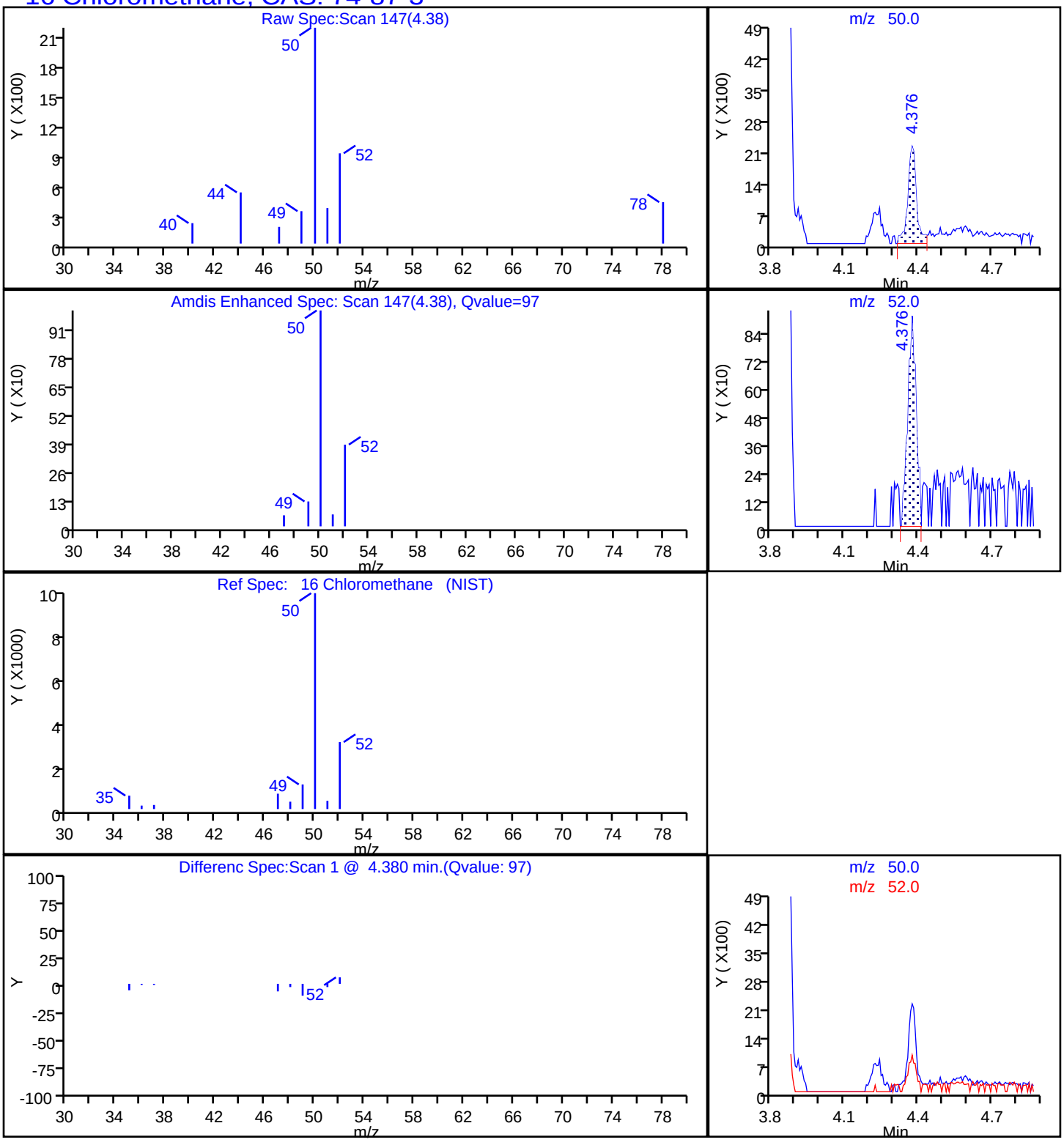
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

16 Chloromethane, CAS: 74-87-3



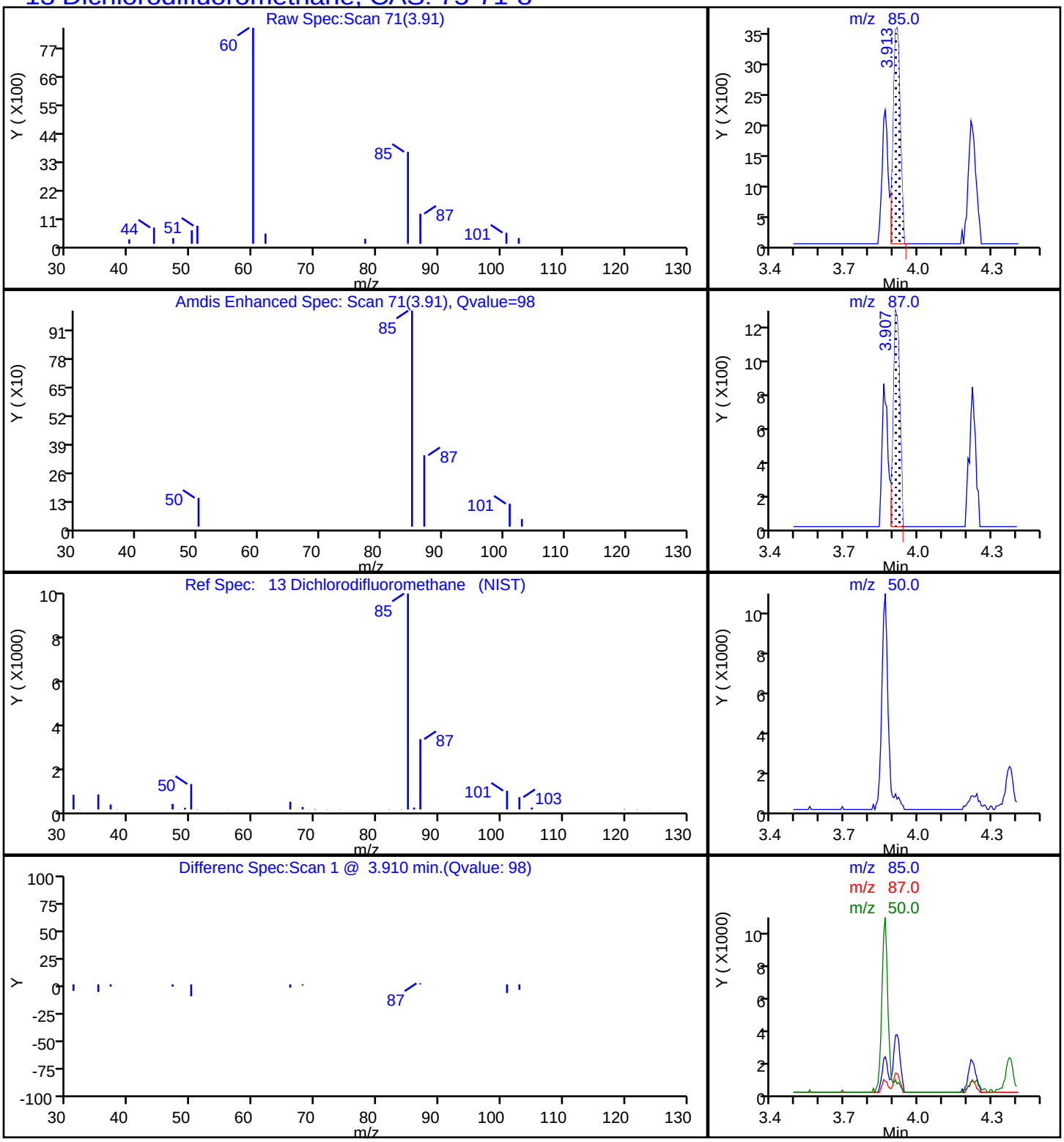
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8



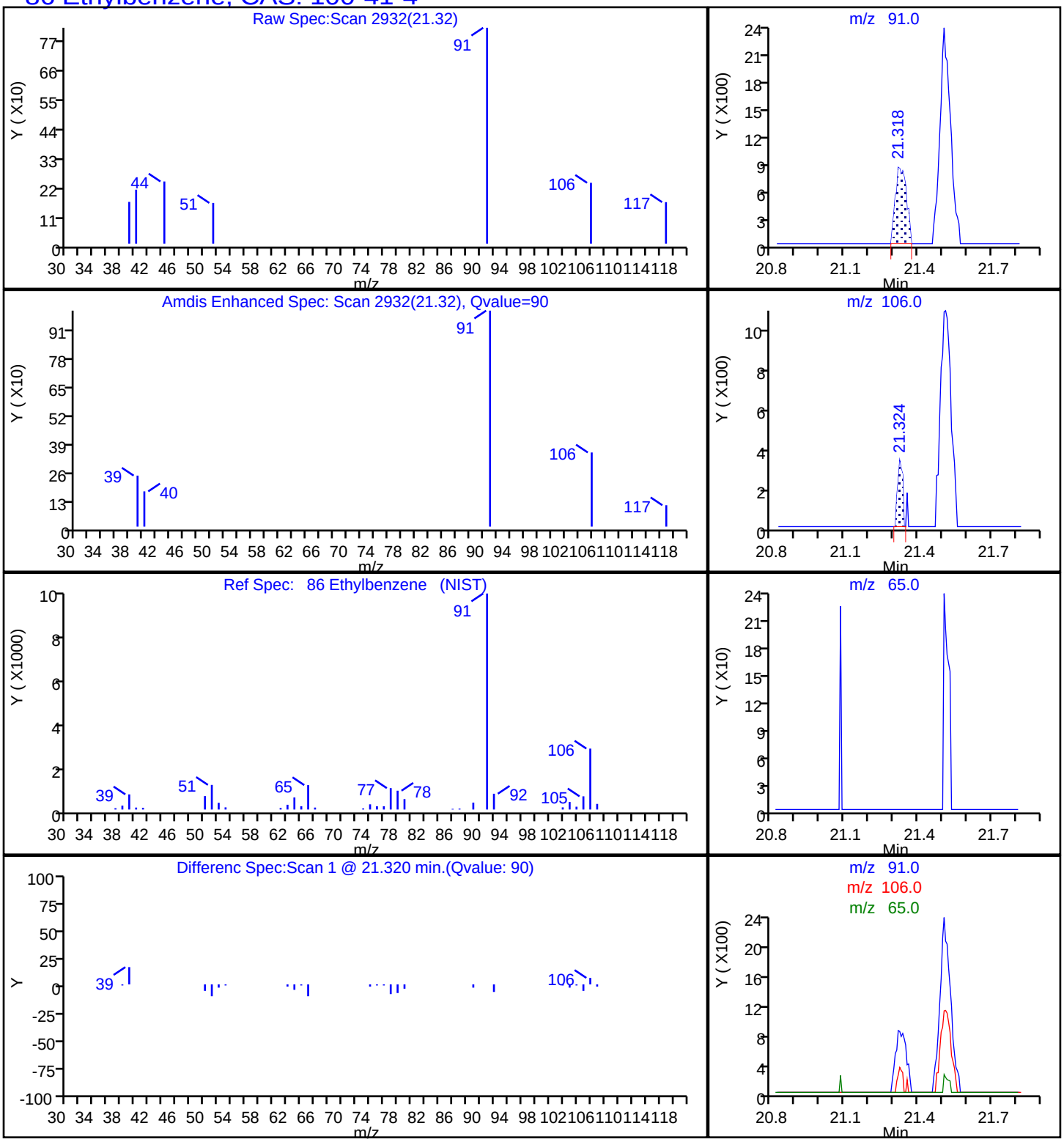
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

86 Ethylbenzene, CAS: 100-41-4



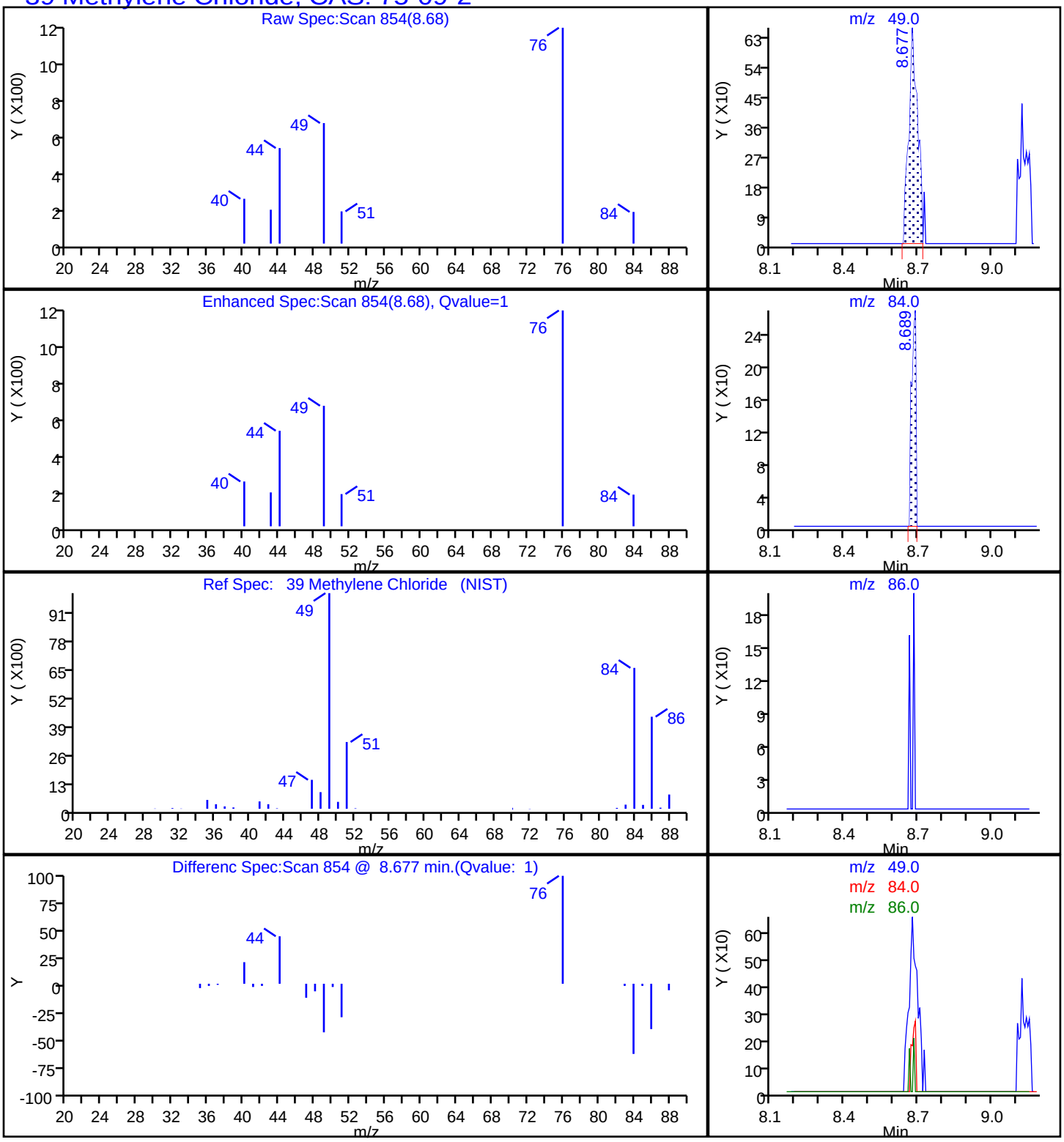
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2

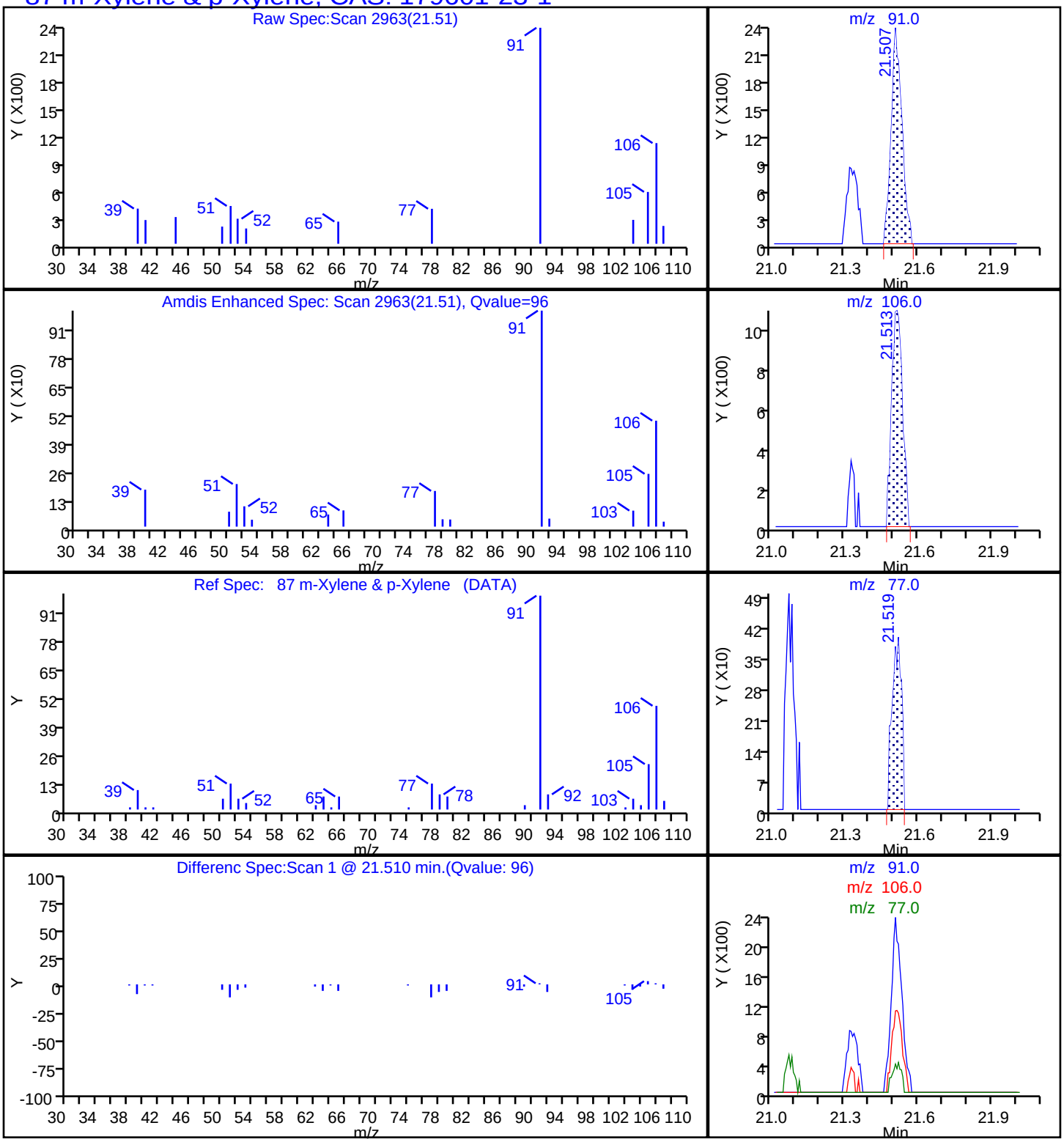


Report Date: 06-Apr-2018 11:34:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D		
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1



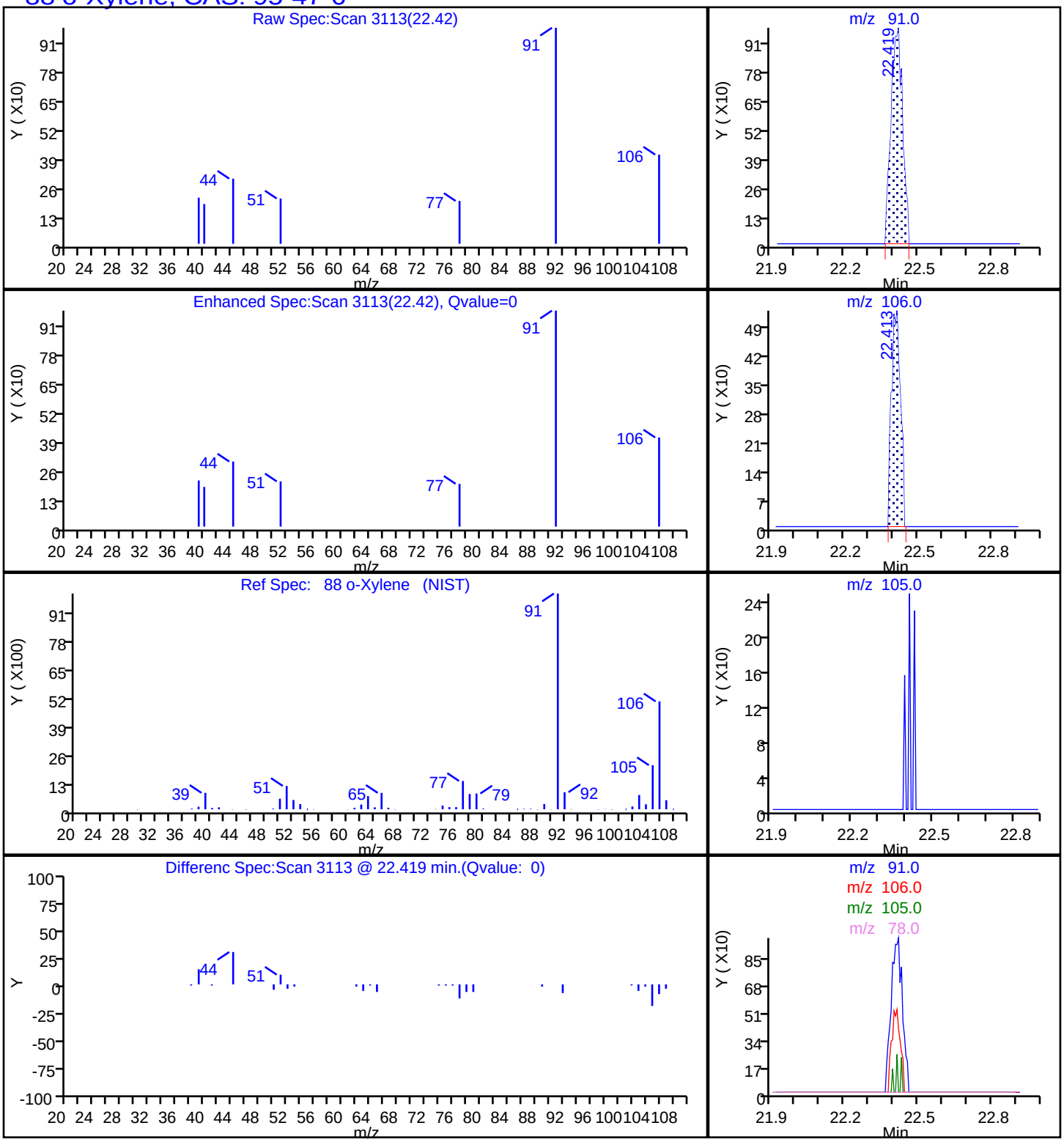
Report Date: 06-Apr-2018 11:34:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

88 o-Xylene, CAS: 95-47-6



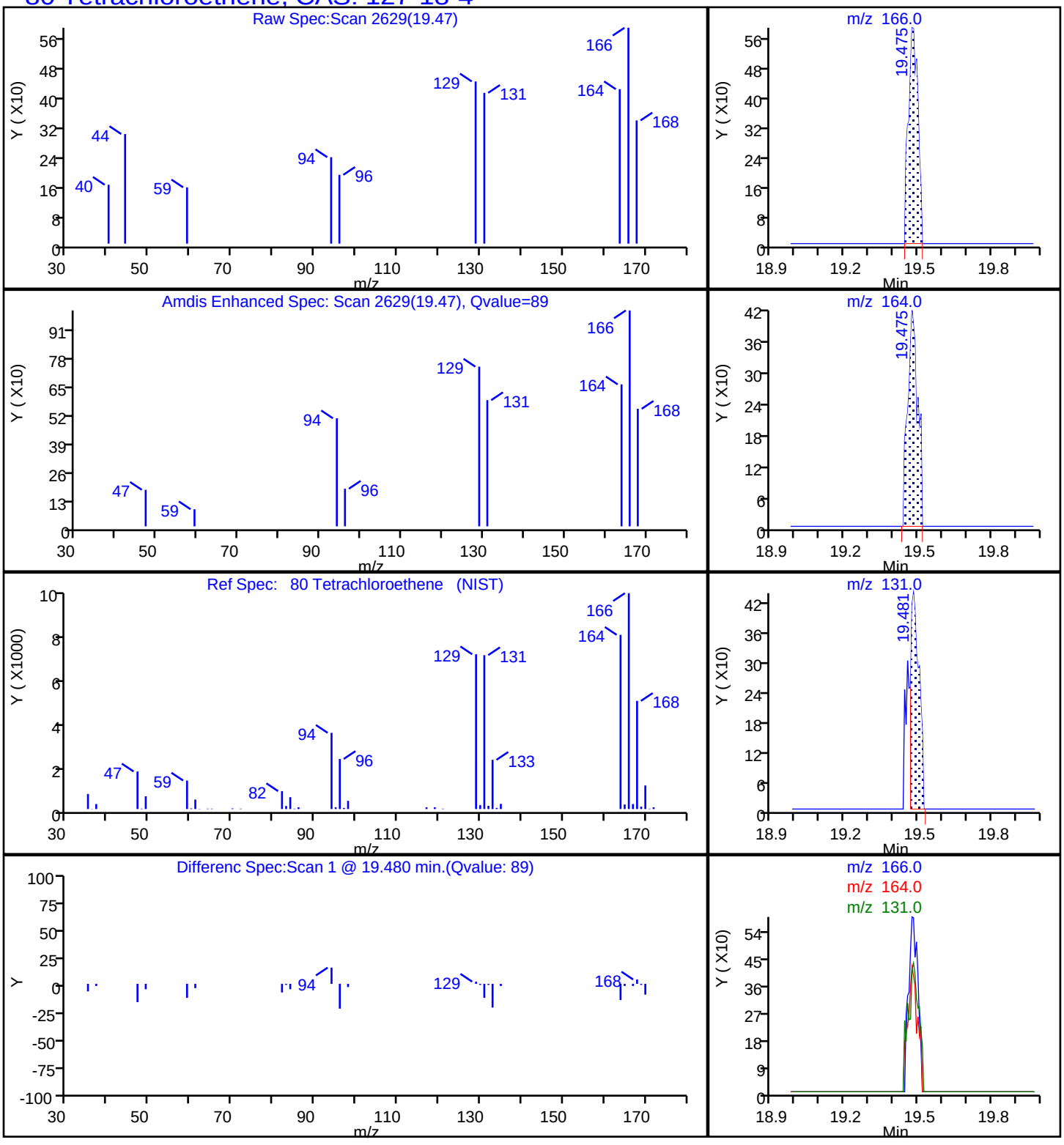
Report Date: 06-Apr-2018 11:34:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



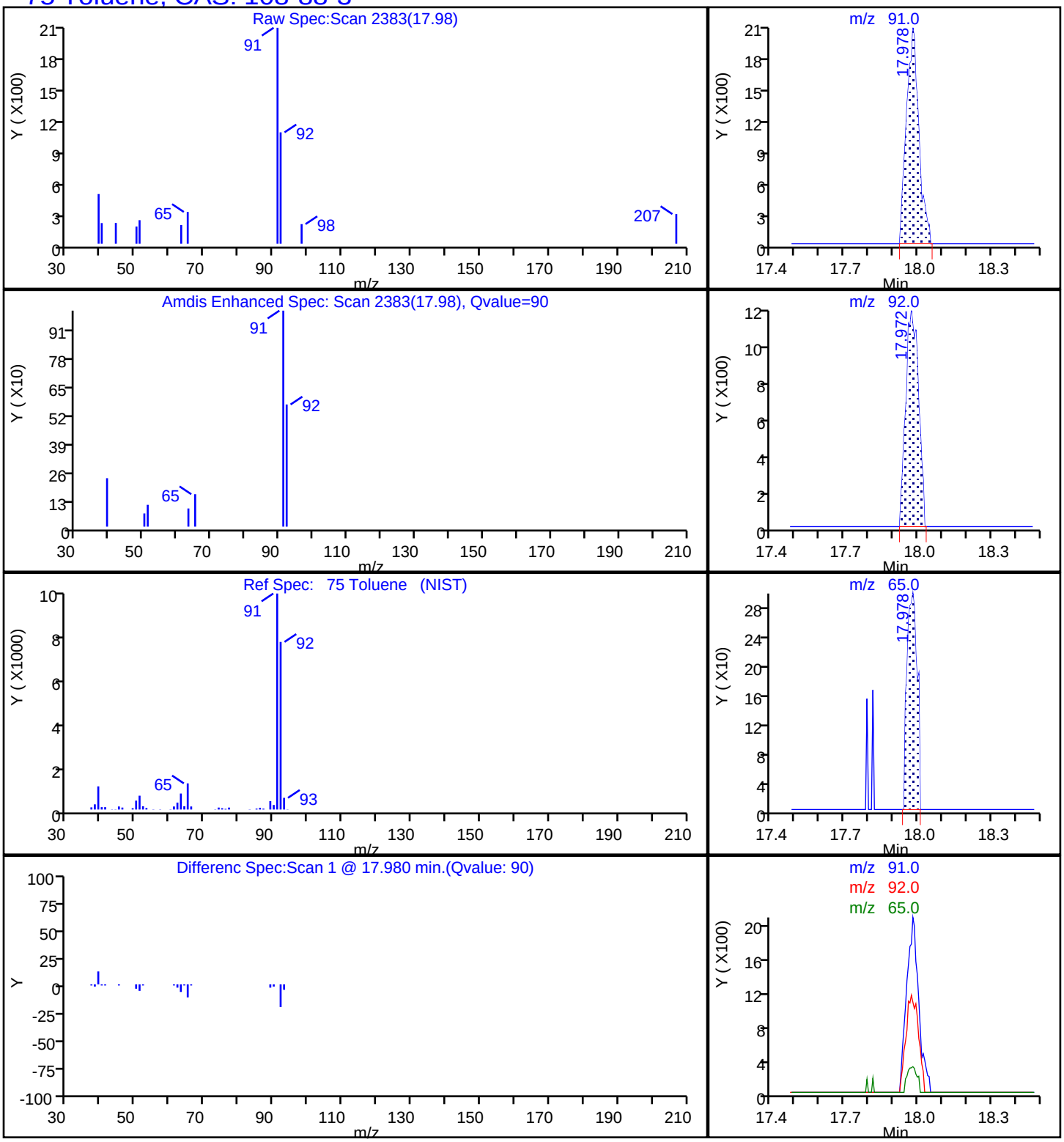
Report Date: 06-Apr-2018 11:34:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

75 Toluene, CAS: 108-88-3



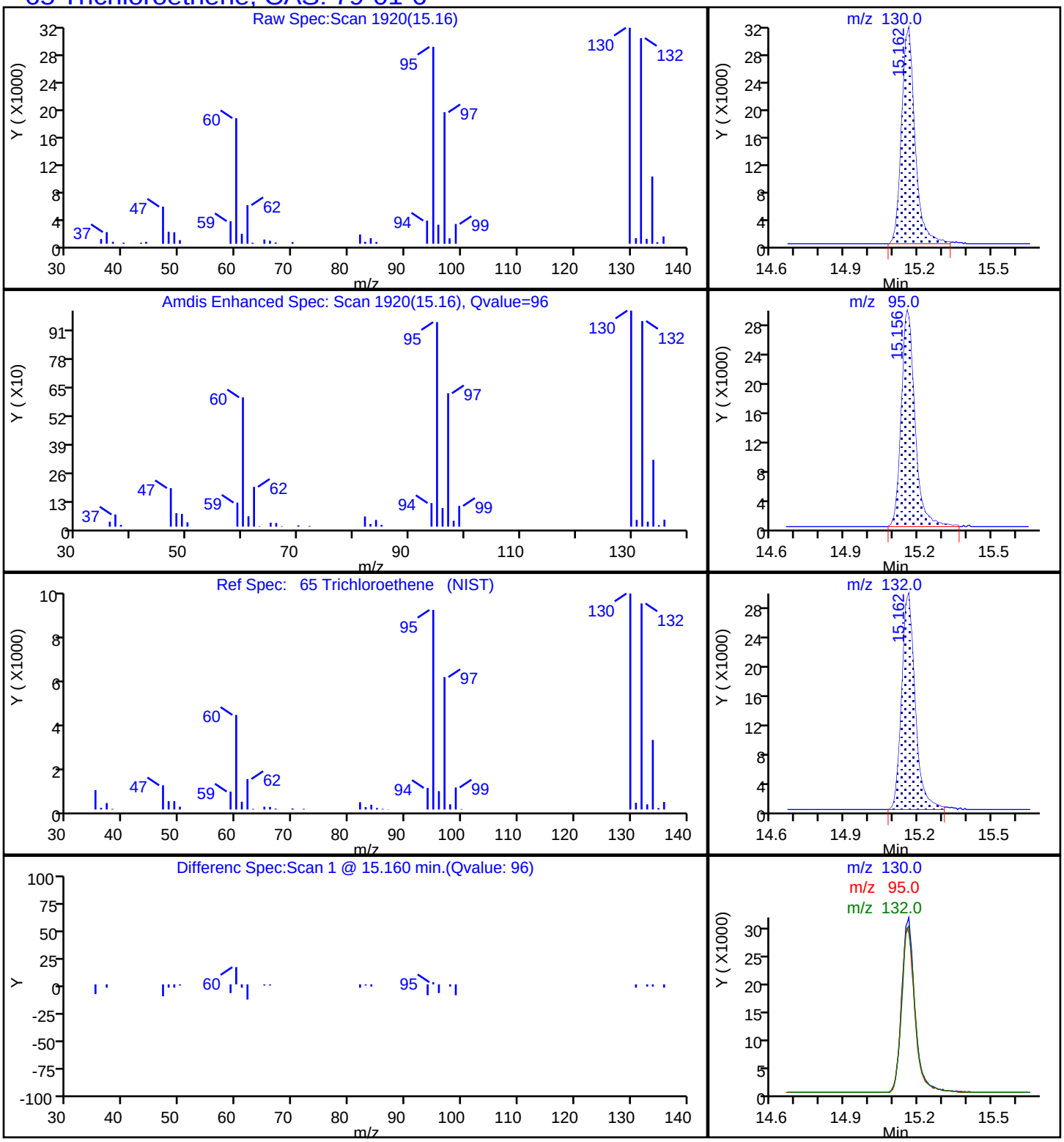
Report Date: 06-Apr-2018 11:34:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

65 Trichloroethene, CAS: 79-01-6



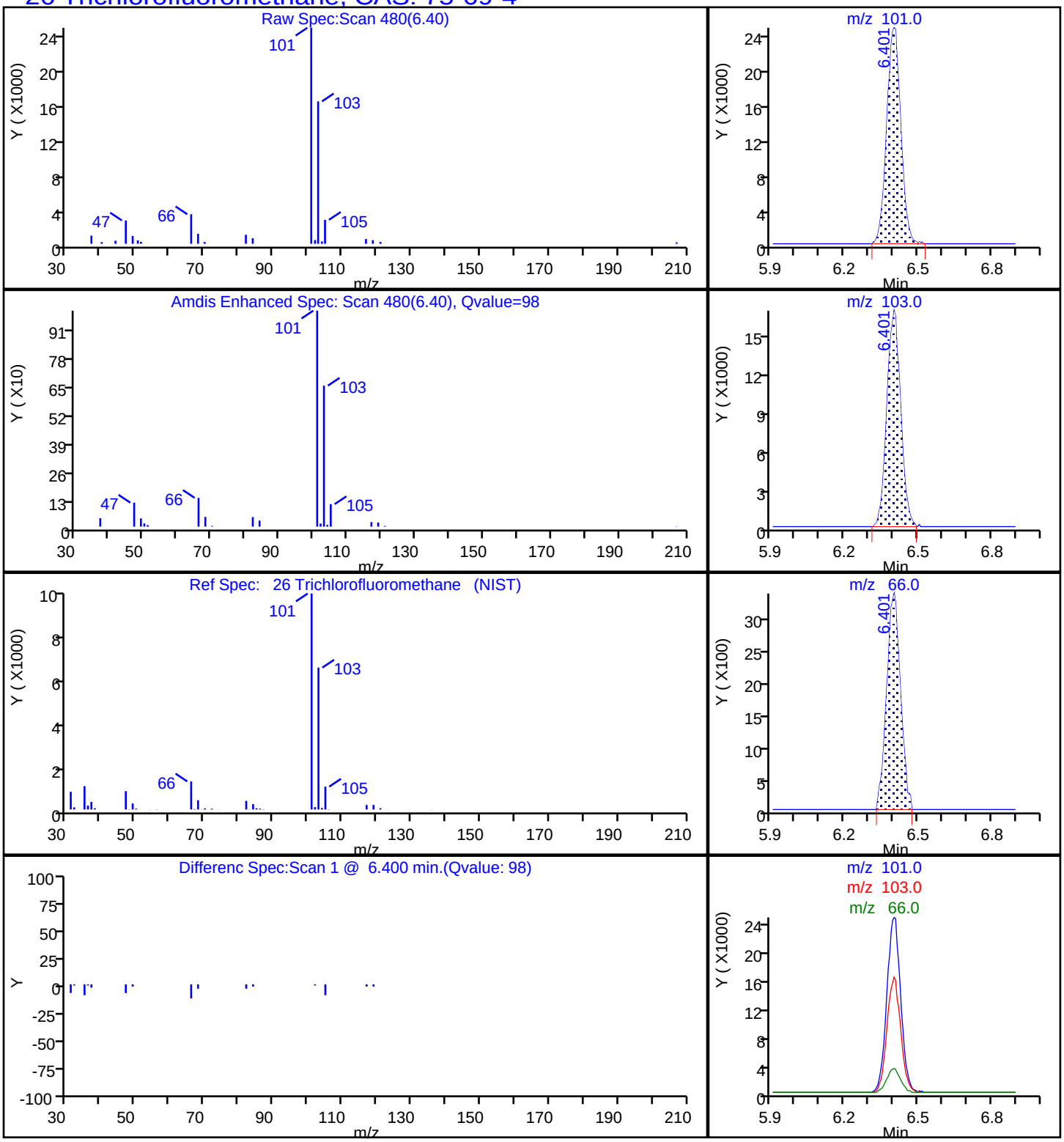
Report Date: 06-Apr-2018 11:34:02 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4



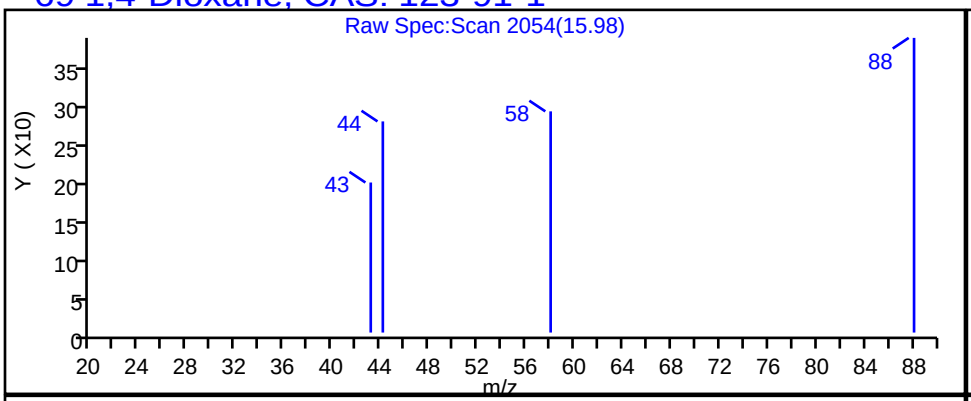
Report Date: 06-Apr-2018 11:34:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

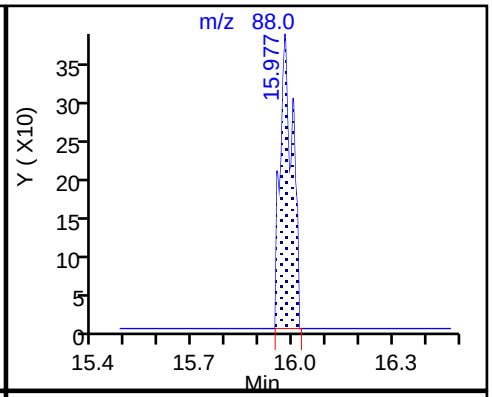
TestAmerica Sacramento

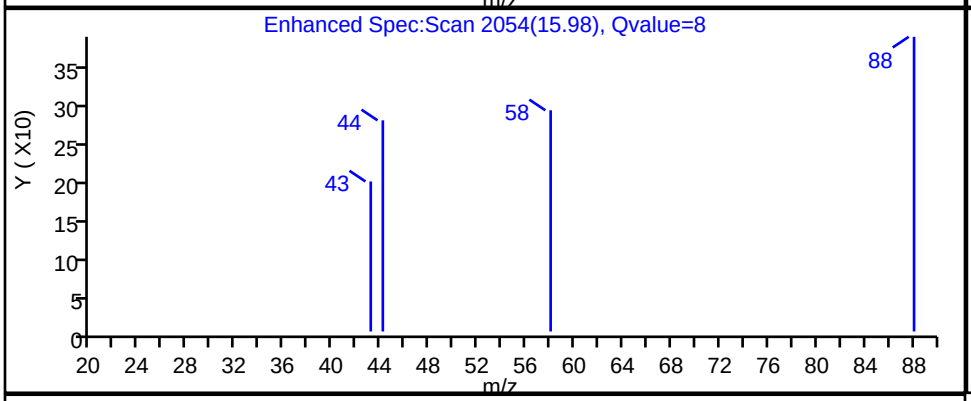
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D

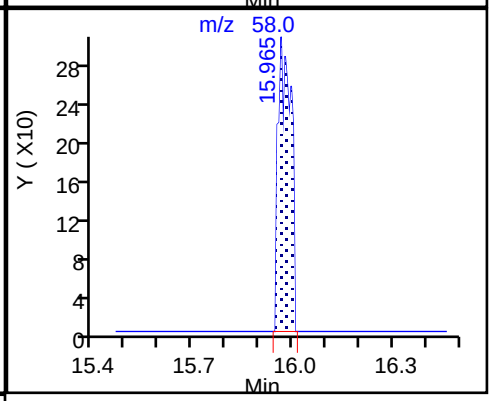
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21
Client ID:	774776INF_0318		
Operator ID:	LHS	ALS Bottle#:	5 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

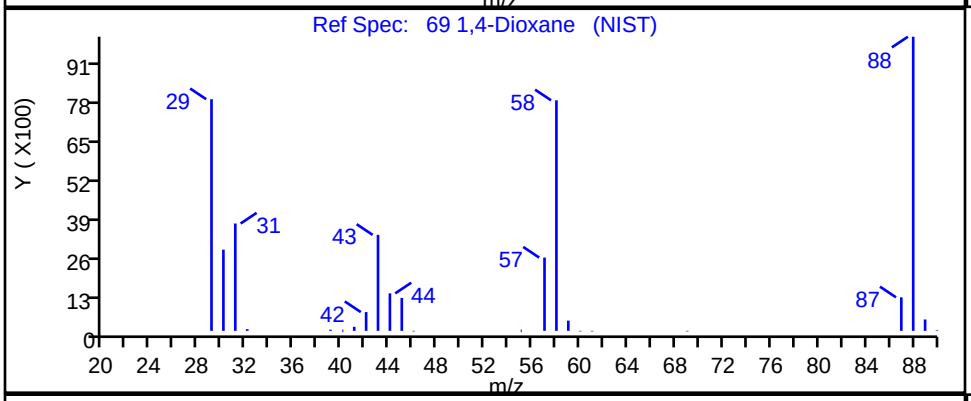
69 1,4-Dioxane, CAS: 123-91-1

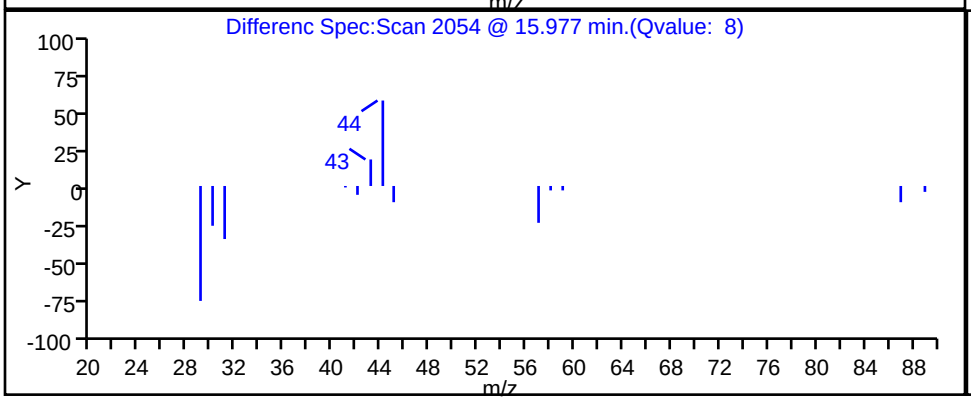


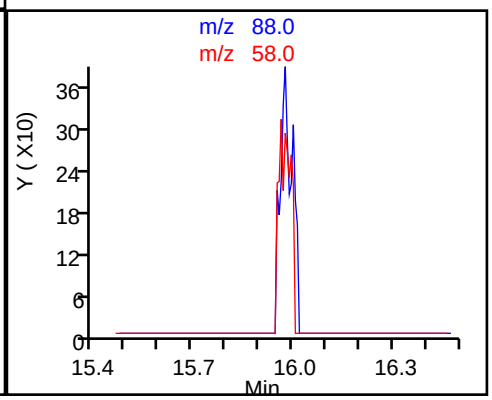












Manual Integration/User Assign Peak Report

TestAmerica Sacramento

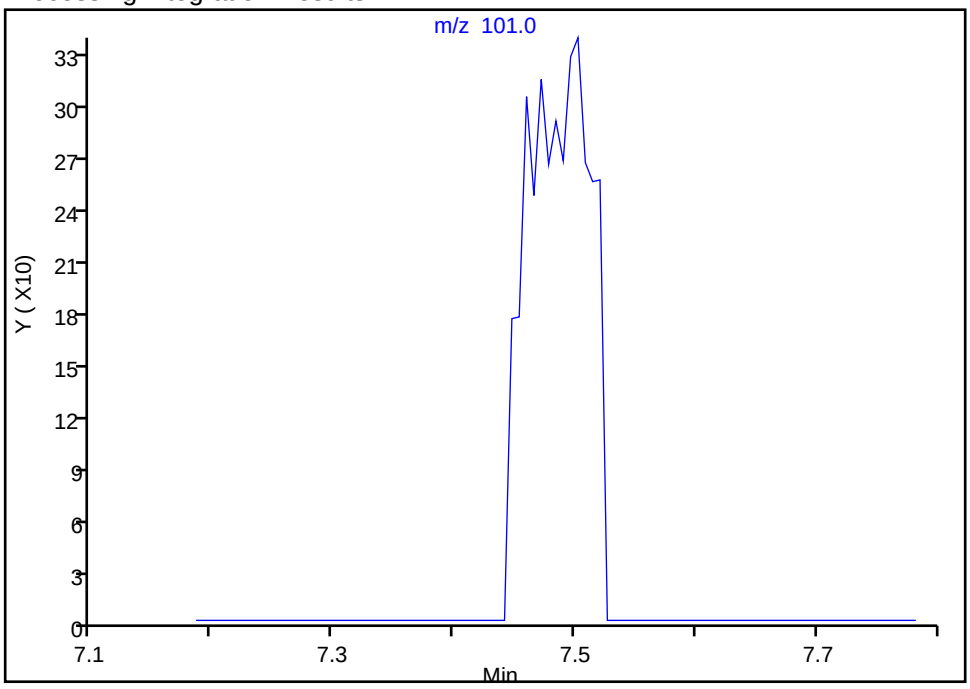
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D				
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21		
Client ID:	774776INF_0318				
Operator ID:	LHS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

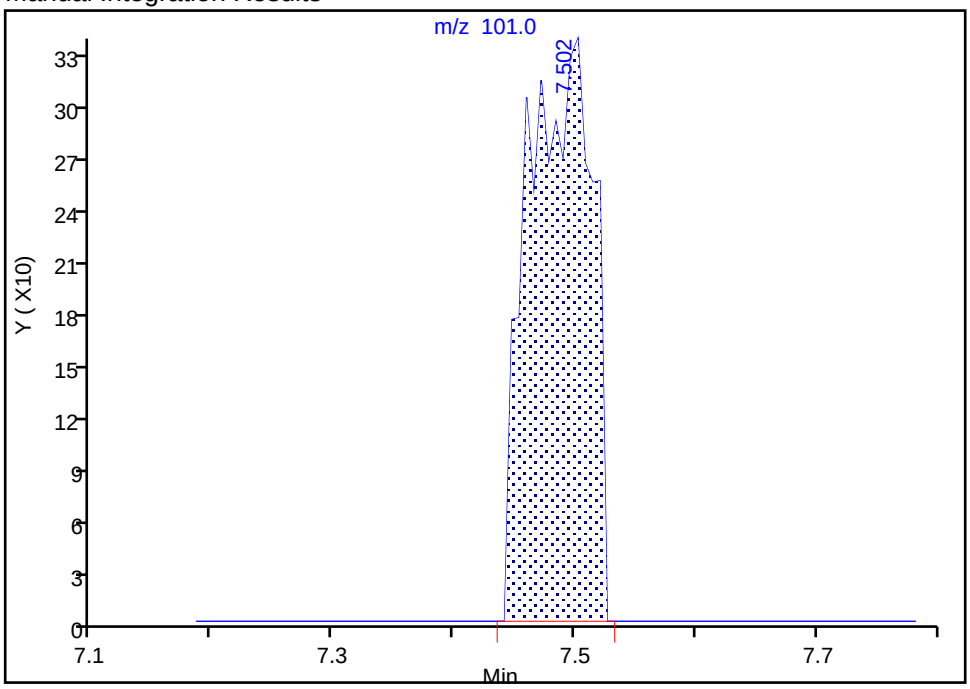
Not Detected
Expected RT: 7.47

Processing Integration Results



Manual Integration Results

RT: 7.50
Area: 1262
Amount: 0.097336
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:33:00
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

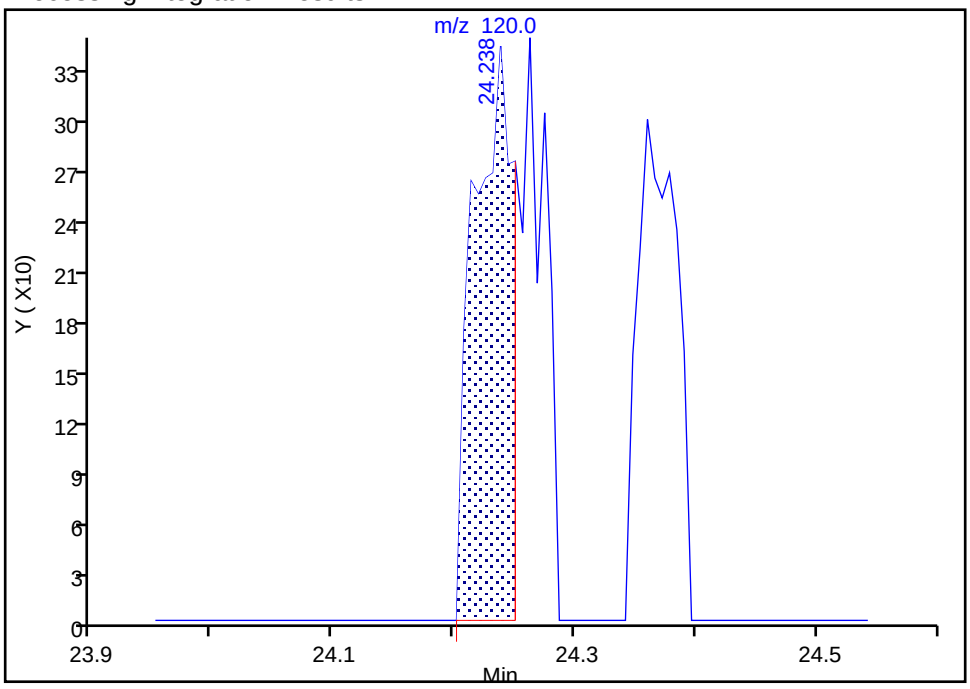
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D				
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21		
Client ID:	774776INF_0318				
Operator ID:	LHS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

102 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

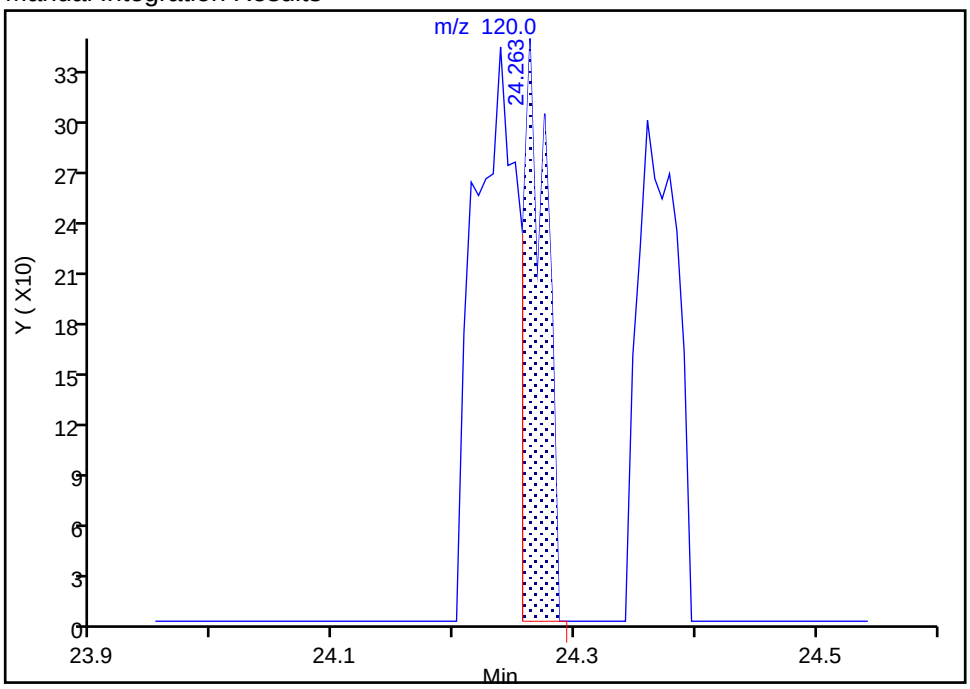
Processing Integration Results

RT: 24.24
Area: 772
Amount: 0.062972
Amount Units: ppb v/v



Manual Integration Results

RT: 24.26
Area: 469
Amount: 0.038257
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:33:48

Audit Action: Manually Integrated Audit Reason: Split Peak

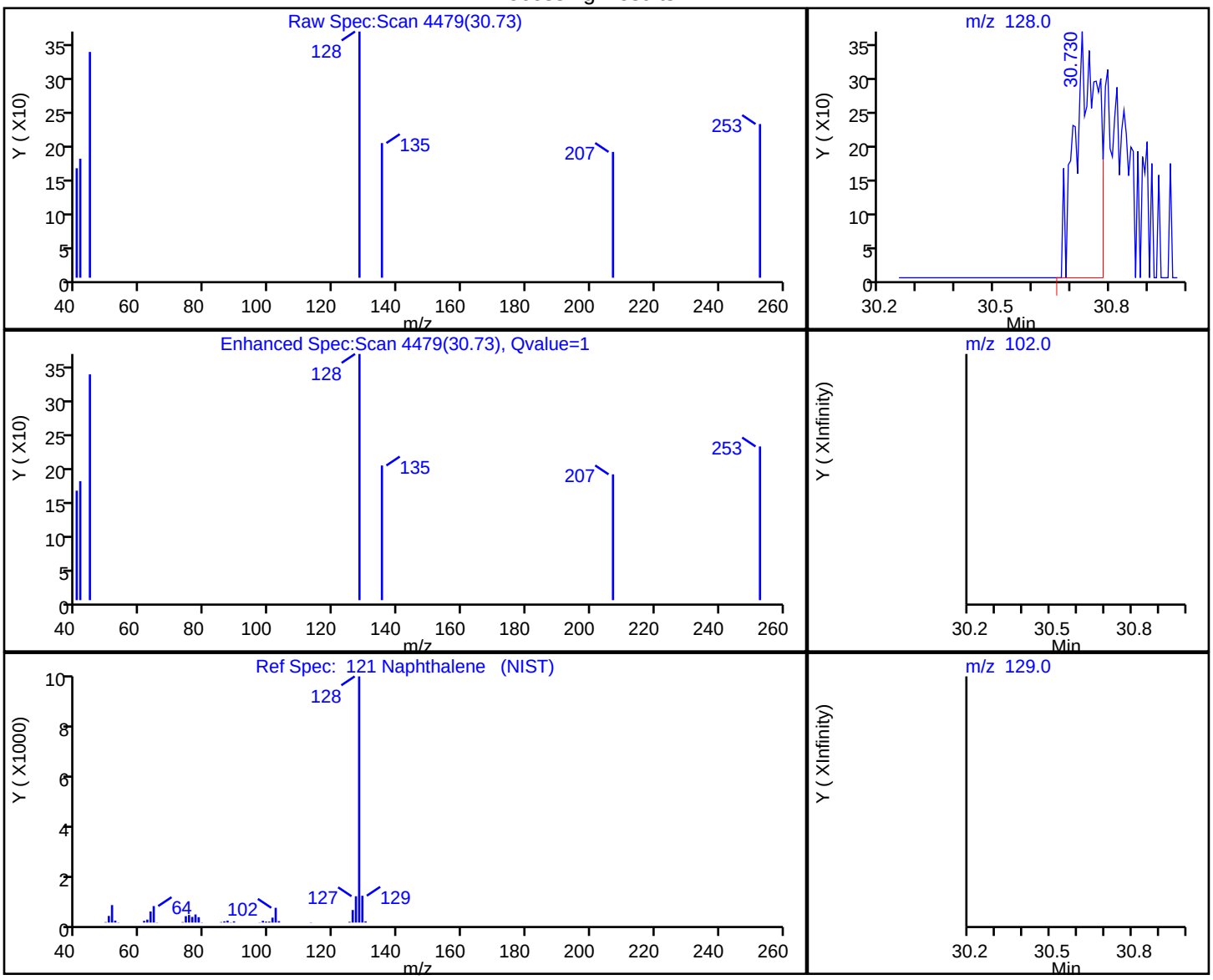
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D				
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21		
Client ID:	774776INF_0318				
Operator ID:	LHS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.73	128.00	1504	0.037885
30.61	102.00	0	
30.61	129.00	0	

Reviewer: phanthasena, 06-Apr-2018 11:34:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

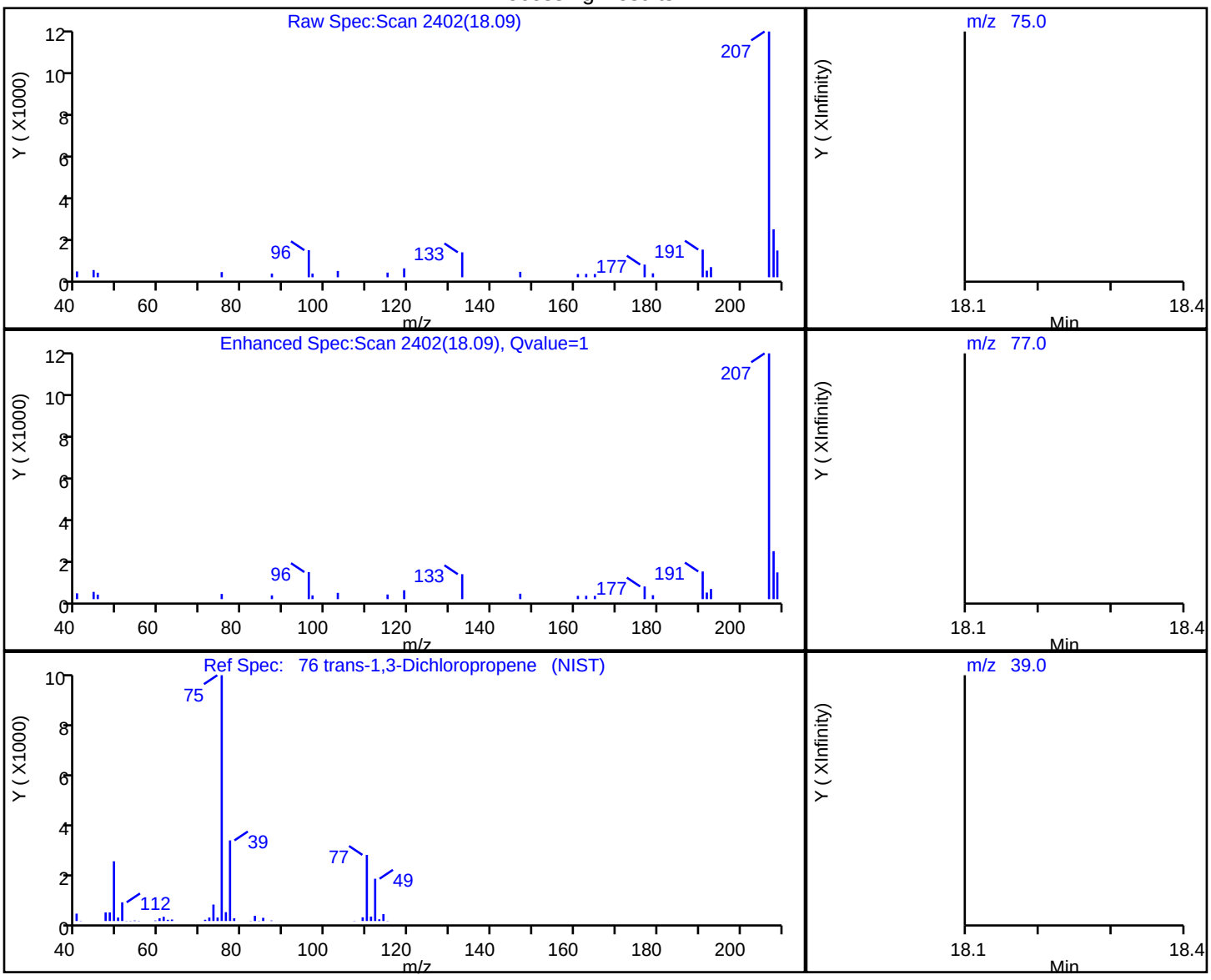
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D				
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21		
Client ID:	774776INF_0318				
Operator ID:	LHS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
18.09	75.00	292	0.023117
18.24	77.00	0	
18.24	39.00	0	

Reviewer: phanthasena, 06-Apr-2018 11:34:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

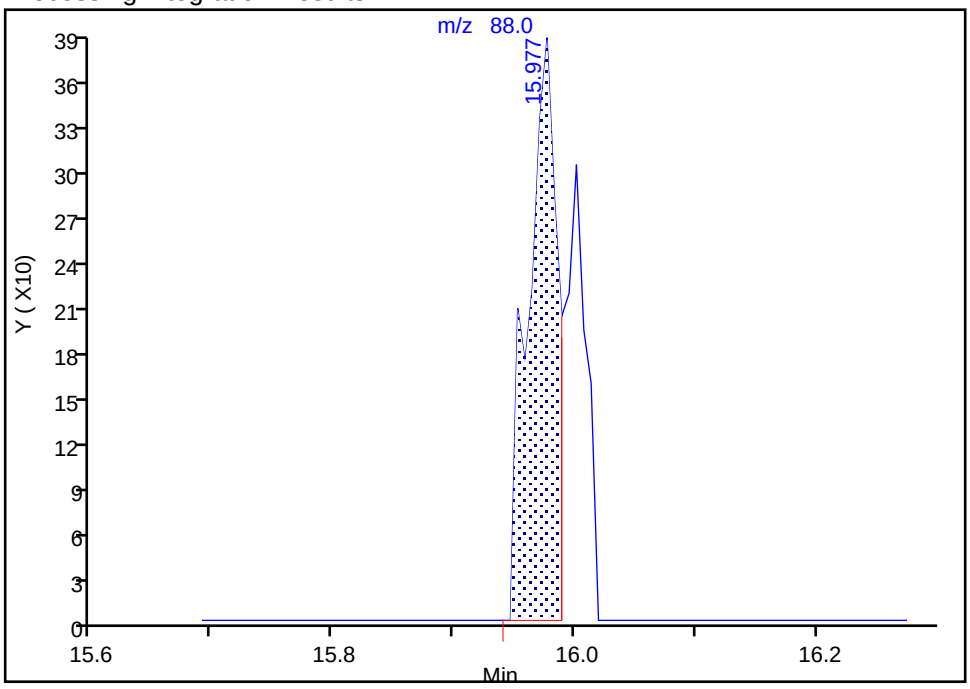
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040509.D				
Injection Date:	05-Apr-2018 18:23:30	Instrument ID:	ATMS7		
Lims ID:	320-37345-A-21	Lab Sample ID:	320-37345-21		
Client ID:	774776INF_0318				
Operator ID:	LHS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

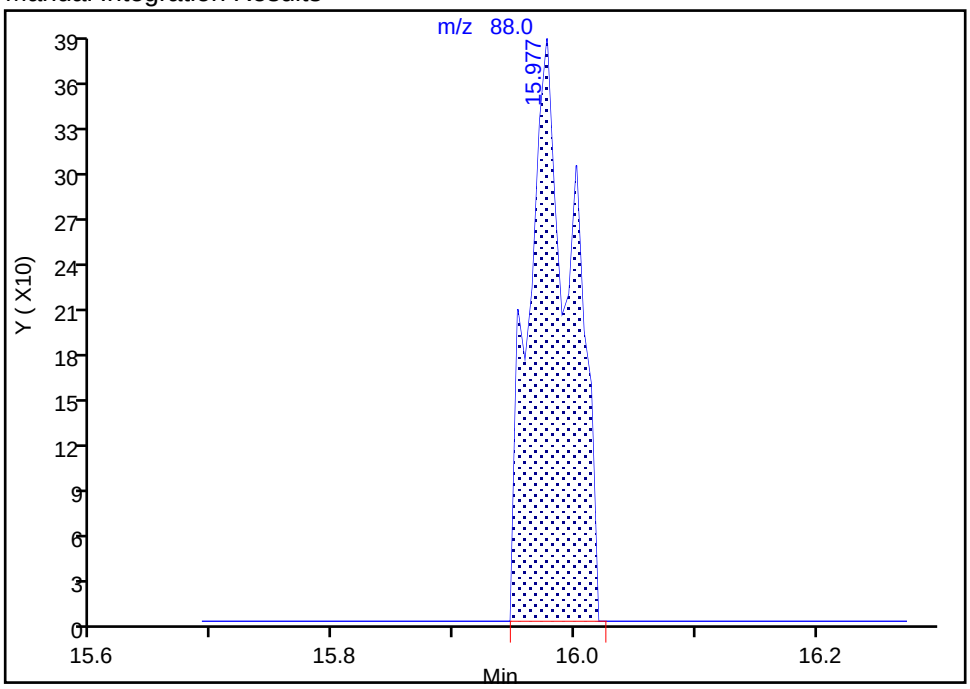
Processing Integration Results

RT: 15.98
Area: 648
Amount: 0.101345
Amount Units: ppb v/v



Manual Integration Results

RT: 15.98
Area: 961
Amount: 0.150297
Amount Units: ppb v/v



Reviewer: phanthasena, 06-Apr-2018 11:33:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-212907/3	MS7031403.D
Level 2	IC 320-212907/4	MS7031404.D
Level 3	IC 320-212907/5	MS7031405.D
Level 4	IC 320-212907/6	MS7031406.D
Level 5	IC 320-212907/14	MS7031414.D
Level 6	IC 320-212907/8	MS7031408.D
Level 7	ICIS 320-212907/9	MS7031409.D
Level 8	IC 320-212907/10	MS7031410.D
Level 9	IC 320-212907/11	MS7031411.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 9	LVL 5		B	M1	M2								
Propene	+++++ 0.8916	+++++ 0.9708	1.0429 0.9322	1.0640 0.8728	0.9712	Ave		0.9637				7.4		30.0			
Dichlorodifluoromethane	1.8612 1.7332	1.7956 1.8164	1.5686 1.7066	1.3625 1.2714	1.3968	Ave		1.6125				13.7		30.0			
Dichlorotetrafluoroethane(F-114)	1.3887 1.4026	1.5647 1.5007	1.5147 1.4556	1.5517 1.2983	1.4121	Ave		1.4543				6.0		30.0			
Chloromethane	+++++ 0.8152	+++++ 0.8492	+++++ 0.8407	1.0186 0.7862	0.8765	Ave		0.8644				9.4		30.0			
Vinyl chloride	0.8275 0.7011	0.7973 0.7405	0.7226 0.7535	0.8095 0.7202	0.7798	Ave		0.7613				5.8		30.0			
Butadiene	+++++ 0.7306	+++++ 0.7614	+++++ 0.7655	0.8669 0.7287	0.7646	Ave		0.7696				6.6		30.0			
Bromomethane	+++++ 0.5442	+++++ 0.5270	+++++ 0.5311	0.6845 0.5933	0.5871	Ave		0.5779				10.3		30.0			
Chloroethane	+++++ 0.4203	0.4256 0.4498	0.4251 0.4511	0.4770 0.4413	0.4184	Ave		0.4386				4.6		30.0			
Trichlorofluoromethane	2.1826 2.1516	2.2059 2.2714	2.2396 2.2190	2.4069 2.0999	2.0954	Ave		2.2080				4.3		30.0			
Acetone	+++++ 1.6586	+++++ 1.8262	2.2430 1.8002	2.0757 1.7726	1.7769	Ave		1.8790				10.9		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6933 1.8464	1.8328 1.8754	1.7715 1.8390	1.9388 1.7787	1.7544	Ave		1.8145				4.0		30.0			
1,1-Dichloroethene	1.4657 1.5918	1.6621 1.6981	1.5655 1.6604	1.6747 1.6081	1.4588	Ave		1.5983				5.5		30.0			
tert-Butyl alcohol (TBA)	+++++ 2.8100	2.9065 3.0229	3.0397 2.9878	2.9823 3.0209	2.7820	Ave		2.9440				3.4		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

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 9	LVL 5		B	M1	M2								
Methylene Chloride	1.6770 1.4521	1.5991 1.5264	1.6129 1.4754	1.6946 1.4310	1.3347	Ave		1.5337				7.9		30.0			
Carbon disulfide	+++++ 1.8343	1.8206 1.9249	1.8773 1.9210	1.9891 1.8643	1.7871	Ave		1.8773				3.5		30.0			
Acrylonitrile	+++++ 0.9431	0.9684 0.9766	0.9883 1.0174	1.0948 0.9833	1.0006	Ave		0.9966				4.6		30.0			
Methyl tert-butyl ether	2.5917 2.5519	2.6144 2.7655	2.5643 2.7701	2.7496 2.7532	2.5399	Ave		2.6556				3.8		30.0			
trans-1,2-Dichloroethene	+++++ 1.4508	1.3710 1.5014	1.4128 1.4718	1.4593 1.4547	1.2990	Ave		1.4276				4.6		30.0			
Hexane	+++++ 1.5640	1.3550 1.5695	1.4107 1.5097	1.4856 1.4648	1.2672	Ave		1.4533				7.2		30.0			
1,1-Dichloroethane	1.7129 1.9309	1.9068 2.0151	1.8410 1.9703	2.0703 1.9514	1.7582	Ave		1.9063				6.1		30.0			
Vinyl acetate	+++++ 4.1678	+++++ 4.4010	+++++ 4.3126	3.9691 4.2648	3.5136	Ave		4.1048				7.9		30.0			
2-Butanone (MEK)	+++++ 0.4944	+++++ 0.5399	+++++ 0.5344	0.4746 0.5402	0.4837	Ave		0.5112				5.9		30.0			
cis-1,2-Dichloroethene	+++++ 0.9866	0.9499 1.0163	0.9040 0.9972	0.9379 0.9852	0.9103	Ave		0.9609				4.3		30.0			
Ethyl acetate	2.9038 3.1484	3.6047 3.4213	3.5402 3.3404	3.5604 3.2939	3.0872	Ave		3.3223				7.2		30.0			
Chloroform	1.8533 2.1231	2.0261 2.1623	1.8964 2.0980	2.0885 2.0946	1.9407	Ave		2.0315				5.4		30.0			
Tetrahydrofuran	1.8304 1.7964	1.8533 1.9464	1.9268 1.9000	2.0199 1.8722	1.6999	Ave		1.8717				4.9		30.0			
1,1,1-Trichloroethane	2.0595 2.3319	2.2028 2.3583	2.2318 2.2690	2.3085 2.2240	2.1142	Ave		2.2333				4.4		30.0			
Cyclohexane	0.2691 0.3049	0.2730 0.3071	0.2804 0.3087	0.2964 0.3047	0.2736	Ave		0.2909				5.7		30.0			
Carbon tetrachloride	0.5574 0.5896	0.5617 0.5907	0.5599 0.5775	0.5727 0.5569	0.5202	Ave		0.5652				3.8		30.0			
1,2-Dichloroethane	0.3445 0.3911	0.3557 0.3898	0.3782 0.3845	0.4060 0.3743	0.3479	Ave		0.3747				5.6		30.0			
Benzene	0.7518 0.7555	0.7548 0.7662	0.7548 0.7651	0.7541 0.7585	0.6910	Ave		0.7502				3.0		30.0			
n-Heptane	0.6681 0.7485	0.7138 0.7695	0.7287 0.7476	0.7380 0.7261	0.6447	Ave		0.7206				5.6		30.0			
Trichloroethene	0.3366 0.3755	0.3528 0.3752	0.3685 0.3691	0.3651 0.3574	0.3408	Ave		0.3601				4.0		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

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 9	LVL 5		B	M1	M2								
1,2-Dichloropropane	+++++ 0.1295	0.1065 0.1299	0.1117 0.1268	0.1221 0.1239	0.1141	Ave		0.1206				7.3		30.0			
Bromodichloromethane	0.3497 0.3882	0.3779 0.3904	0.3765 0.3819	0.3727 0.3746	0.3501	Ave		0.3735				3.9		30.0			
1,4-Dioxane	0.1994 0.1984	0.2151 0.2053	0.2151 0.2025	0.2135 0.1972	0.2110	Ave		0.2064				3.6		30.0			
NMOC as Hexane	887.49 780.47	856.03 897.09	900.01 840.08	849.92 808.92	835.39	Ave		7.9682				9.7		30.0			
4-Methyl-2-pentanone (MIBK)	0.9101 1.0798	1.1063 1.1990	1.1483 1.1881	1.1774 1.1740	1.1490	Ave		1.1258				8.0		30.0			
cis-1,3-Dichloropropene	0.5112 0.5663	0.5221 0.5747	0.5527 0.5657	0.5343 0.5569	0.5076	Ave		0.5435				4.7		30.0			
n-Octane	+++++ 0.9504	1.2108 1.0865	1.2191 1.0735	1.1783 1.0521	0.8950	Ave		1.0832				10.9		30.0			
Toluene	1.0075 1.0580	1.0786 1.0974	1.0759 1.0710	1.0730 1.0507	0.9891	Ave		1.0557				3.3		30.0			
trans-1,3-Dichloropropene	0.4742 0.4605	0.4743 0.4756	0.4772 0.4750	0.4793 0.4787	0.4128	Ave		0.4675				4.5		30.0			
1,1,2-Trichloroethane	+++++ 0.3058	0.3580 0.3170	0.3532 0.3149	0.3365 0.3144	0.2688	Ave		0.3211				8.9		30.0			
2-Hexanone	+++++ 0.4663	+++++ 0.5247	0.4051 0.5261	0.4723 0.5270	0.4850	Ave		0.4866				9.2		30.0			
Tetrachloroethene	+++++ 0.5029	0.5584 0.5136	0.5778 0.4976	0.5524 0.4854	0.4701	Ave		0.5198				7.4		30.0			
Dibromochloromethane	0.7393 0.6489	0.6772 0.6749	0.6946 0.6668	0.6843 0.6505	0.5840	Ave		0.6690				6.2		30.0			
1,2-Dibromoethane (EDB)	0.5705 0.5101	0.5439 0.5329	0.5490 0.5257	0.5374 0.5198	0.4797	Ave		0.5299				4.9		30.0			
Chlorobenzene	0.9621 0.7944	0.9411 0.8709	0.9344 0.8448	0.9156 0.8292	0.8087	Ave		0.8779				7.1		30.0			
n-Nonane	1.0543 0.9231	1.0553 1.1789	1.0251 1.1731	1.1480 1.1442	1.0945	Ave		1.0885				7.7		30.0			
Ethylbenzene	1.4712 1.2395	1.3995 1.4274	1.4566 1.4151	1.4578 1.3979	1.3276	Ave		1.3992				5.3		30.0			
m-Xylene & p-Xylene	1.1470 0.9088	1.0927 1.1150	1.1184 1.1059	1.1194 1.0995	1.0374	Ave		1.0827				6.6		30.0			
o-Xylene	1.1069 0.8984	1.1250 1.1263	1.0824 1.1153	1.1151 1.1013	1.0314	Ave		1.0780				6.8		30.0			
Styrene	0.8168 0.6983	0.7612 0.9163	0.7881 0.9121	0.8248 0.8991	0.8642	Ave		0.8312				8.9		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

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 9	LVL 5		B	M1	M2								
Bromoform	0.7246 0.6231	0.6707 0.6927	0.6490 0.6768	0.6534 0.6561	0.5940	Ave		0.6600				5.8		30.0			
Isopropylbenzene	0.4121 0.3602	0.4132 0.4440	0.4129 0.4285	0.4250 0.4148	0.4006	Ave		0.4124				5.6		30.0			
1,1,2,2-Tetrachloroethane	0.8236 0.6680	0.7580 0.7710	0.8029 0.7518	0.7781 0.7387	0.7145	Ave		0.7563				6.1		30.0			
1,2,3-Trichloropropane	0.2405 0.2112	0.2494 0.2385	0.2540 0.2304	0.2450 0.2228	0.2190	Ave		0.2345				6.2		30.0			
N-Propylbenzene	1.7819 1.4878	1.7250 1.8790	1.7976 1.8487	1.8554 1.8063	1.8137	Ave		1.7773				6.6		30.0			
4-Ethyltoluene	0.4068 0.3878	0.4431 0.4928	0.4639 0.4841	0.4720 0.4704	0.4626	Ave		0.4537				7.8		30.0			
1,3,5-Trimethylbenzene	0.7170 0.5615	0.6806 0.6813	0.7414 0.6625	0.6429 0.6410	0.6790	Ave		0.6675				7.7		30.0			
tert-Butylbenzene	1.0184 0.7603	1.0281 0.9182	0.9666 0.8919	0.9292 0.8730	0.8448	Ave		0.9145				9.3		30.0			
1,2,4-Trimethylbenzene	+++++ 0.5140	+++++ 0.6552	0.5182 0.6538	0.6359 0.6146	0.6501	Ave		0.6060				10.4		30.0			
sec-Butylbenzene	1.6338 1.6825	2.0033 2.0472	2.0015 2.0165	2.0679 1.9729	1.9205	Ave		1.9273				8.2		30.0			
4-Isopropyltoluene	+++++ 1.4711	+++++ 1.7767	1.5431 1.7278	1.6676 1.6830	1.6573	Ave		1.6467				6.4		30.0			
1,3-Dichlorobenzene	+++++ 0.6989	+++++ 0.8785	0.7295 0.8702	0.8754 0.8504	0.8245	Ave		0.8182				9.0		30.0			
1,4-Dichlorobenzene	+++++ 0.6767	0.7776 0.8638	0.9727 0.8647	0.7882 0.8438	0.8299	Ave		0.8272				10.3		30.0			
Benzyl chloride	+++++ 1.1817	+++++ 1.5077	+++++ 1.5433	1.1962 1.5433	1.2379	Ave		1.3684				13.2		30.0			
n-Butylbenzene	+++++ 0.7103	+++++ 0.8719	0.6580 0.8542	0.5964 0.8322	0.7663	Ave		0.7556				13.9		30.0			
1,2-Dichlorobenzene	0.7108 0.6817	0.7722 0.8247	0.7450 0.8160	0.8381 0.7946	0.8077	Ave		0.7767				6.9		30.0			
1,2,4-Trichlorobenzene	+++++ 0.3908	+++++ 0.5567	+++++ 0.5586	0.4580 0.5406	0.5184	Ave		0.5038				13.2		30.0			
Hexachlorobutadiene	0.5110 0.4661	0.4894 0.5372	0.4897 0.5156	0.5175 0.4858	0.5124	Ave		0.5027				4.3		30.0			
Naphthalene	+++++ 1.1988	+++++ 1.5602	1.3384 1.5931	1.2746 1.5537	1.7663	Ave		1.4693				13.8		30.0			
1,2-Dichloroethane-d4 (Surr)	0.3708 0.3623	0.3696 0.3778	0.3718 0.4015	0.3717 0.4210	0.3487	Ave		0.3772				5.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

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 9	LVL 5		B	M1	M2								
Toluene-d8 (Surr)	0.6427 0.7232	0.6886 0.7331	0.6696 0.7186	0.6687 0.7102	0.7160	Ave		0.6967				4.4		30.0			
4-Bromofluorobenzene (Surr)	0.6489 0.7606	0.7168 0.7892	0.7299 0.7818	0.7485 0.7675	0.7442	Ave		0.7430				5.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-212907/3	MS7031403.D
Level 2	IC 320-212907/4	MS7031404.D
Level 3	IC 320-212907/5	MS7031405.D
Level 4	IC 320-212907/6	MS7031406.D
Level 5	IC 320-212907/14	MS7031414.D
Level 6	IC 320-212907/8	MS7031408.D
Level 7	ICIS 320-212907/9	MS7031409.D
Level 8	IC 320-212907/10	MS7031410.D
Level 9	IC 320-212907/11	MS7031411.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Propene	CBM	Ave	+++++ 69648	+++++ 185513	4024 415832	8125 641717	21774	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
Dichlorodifluoromethane	CBM	Ave	3990 135392	5164 347115	6052 761255	10404 934751	31315	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Dichlorotetrafluoroethane(F-114)	CBM	Ave	2977 109567	4500 286784	5844 649281	11849 954532	31659	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Chloromethane	CBM	Ave	+++++ 63677	+++++ 162289	+++++ 375016	7778 578043	19651	+++++ 8.00	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00
Vinyl chloride	CBM	Ave	1774 54764	2293 141505	2788 336088	6181 529539	17483	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Butadiene	CBM	Ave	+++++ 57072	+++++ 145512	+++++ 341463	6620 535766	17143	+++++ 8.00	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00
Bromomethane	CBM	Ave	+++++ 42514	+++++ 100719	+++++ 236918	5227 436235	13163	+++++ 8.00	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00
Chloroethane	CBM	Ave	+++++ 32834	1224 85948	1640 201228	3642 324490	9380	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Trichlorofluoromethane	CBM	Ave	4679 168076	6344 434062	8641 989800	18379 1543928	46977	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Acetone	CBM	Ave	+++++ 129567	+++++ 348987	8654 803005	15850 1303275	39837	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	3630 144235	5271 358388	6835 820294	14805 1307807	39332	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,1-Dichloroethene	CBM	Ave	3142 124347	4780 324507	6040 740654	12788 1182309	32705	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
tert-Butyl alcohol (TBA)	CBM	Ave	+++++ 219505	8359 577683	11728 1332755	22773 2221117	62371	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Methylene Chloride	CBM	Ave	3595 113435	4599 291703	6223 658107	12940 1052115	29924	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Carbon disulfide	CBM	Ave	+++++ 143291	5236 367842	7243 856887	15189 1370744	40066	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Acrylonitrile	CBM	Ave	+++++ 73672	2785 186632	3813 453800	8360 722993	22433	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Methyl tert-butyl ether	CBM	Ave	5556 199348	7519 528492	9894 1235634	20996 2024238	56943	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
trans-1,2-Dichloroethene	CBM	Ave	+++++ 113331	3943 286922	5451 656524	11143 1069552	29123	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Hexane	CBM	Ave	+++++ 122174	3897 299936	5443 673435	11344 1077000	28411	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,1-Dichloroethane	CBM	Ave	3672 150838	5484 385084	7103 878856	15809 1434725	39419	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Vinyl acetate	CBM	Ave	+++++ 325573	+++++ 841035	+++++ 1923681	30308 3135686	78773	+++++ 8.00	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00
2-Butanone (MEK)	CBM	Ave	+++++ 38622	+++++ 103173	+++++ 238357	3624 397180	10845	+++++ 8.00	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 77069	2732 194223	3488 444828	7162 724384	20408	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Ethyl acetate	CBM	Ave	6225 245943	10367 653806	13659 1490039	27187 2421826	69214	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Chloroform	CBM	Ave	3973 165849	5827 413220	7317 935835	15948 1540054	43509	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Tetrahydrofuran	CBM	Ave	3924 140331	5330 371964	7434 847499	15424 1376538	38111	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,1,1-Trichloroethane	CBM	Ave	4415 182155	6335 450673	8611 1012127	17628 1635207	47400	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Cyclohexane	DFBZ	Ave	2386 107822	3396 266265	4583 604960	9977 988698	27461	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Carbon tetrachloride	DFBZ	Ave	4943 208482	6986 512126	9151 1131603	19278 1806873	52208	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,2-Dichloroethane	DFBZ	Ave	3055 138309	4424 337994	6182 753478	13667 1214459	34914	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Benzene	DFBZ	Ave	6667 267153	9388 664287	12338 1499303	25385 2461135	69355	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
n-Heptane	DFBZ	Ave	5925 264665	8878 667196	11911 1464961	24845 2355798	64700	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Trichloroethene	DFBZ	Ave	2985 132794	4388 325274	6023 723293	12292 1159521	34207	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 45807	1325 112606	1826 248489	4112 401984	11447	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Bromodichloromethane	DFBZ	Ave	3101 137278	4700 338522	6154 748280	12545 1215377	35136	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DFBZ	Ave	1768 70159	2676 178006	3516 396866	7186 639940	21173	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
NMOC as Hexane	CBM	Ave	1902563 60966997	2461904 171434026	3472525 374726541	6489962 594753811	18729134	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	8071 381833	13760 1039602	18770 2328216	39635 3809352	115316	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
cis-1,3-Dichloropropene	DFBZ	Ave	4533 200239	6494 498261	9034 1108591	17987 1806881	50944	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
n-Octane	CBZd 5	Ave	+++++ 385010	15531 1082318	20564 2345426	41660 3719447	106553	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Toluene	DFBZ	Ave	8934 374114	13416 951528	17586 2098663	36120 3409185	99271	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
trans-1,3-Dichloropropene	CBZd 5	Ave	3748 186532	6084 473810	8050 1037761	16945 1692374	49147	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,1,2-Trichloroethane	CBZd 5	Ave	+++++ 123867	4592 315835	5958 687957	11896 1111314	32002	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
2-Hexanone	CBZd 5	Ave	+++++ 188891	+++++ 522714	6834 1149484	16699 1862891	57748	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
Tetrachloroethene	CBZd 5	Ave	+++++ 203710	7162 511646	9746 1087192	19532 1716071	55969	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Dibromochloromethane	CBZd 5	Ave	5843 262876	8687 672310	11717 1456858	24196 2299726	69528	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	4509 206623	6977 530910	9260 1148602	19000 1837668	57109	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Chlorobenzene	CBZd 5	Ave	7604 321797	12071 867616	15762 1845685	32372 2931559	96280	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
n-Nonane	CBZd 5	Ave	8333 373932	13537 1174415	17291 2563100	40590 4044953	130307	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Ethylbenzene	CBZd 5	Ave	11628 502138	17952 1421934	24571 3091733	51543 4941870	158059	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
m-Xylene & p-Xylene	CBZd 5	Ave	18132 736277	28033 2221490	37730 4832666	79154 7773862	247018	0.400 16.0	0.600 40.0	0.800 80.0	1.60 120	4.00
o-Xylene	CBZd 5	Ave	8749 363931	14430 1121965	18258 2436671	39428 3893245	122790	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Styrene	CBZd 5	Ave	6456 282889	9764 912807	13294 1992854	29163 3178614	102889	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Bromoform	CBZd 5	Ave	5727 252438	8603 690015	10947 1478670	23104 2319617	70722	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Isopropylbenzene	CBZd 5	Ave	3257 145918	5300 442324	6965 936123	15027 1466335	47695	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	6510 270607	9723 768096	13544 1642598	27510 2611511	85063	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 212907

SDG No.:

Instrument ID: ATMS7 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2018 17:28 Calibration End Date: 03/15/2018 07:51 Calibration ID: 38159

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,3-Trichloropropane	CBZd 5	Ave	1901 85551	3199 237548	4284 503467	8661 787792	26072	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
N-Propylbenzene	CBZd 5	Ave	14084 602709	22127 1871814	30323 4039212	65603 6385569	215927	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
4-Ethyltoluene	CBZd 5	Ave	3215 157117	5684 490920	7826 1057745	16689 1662911	55076	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	5667 227460	8730 678709	12506 1447543	22732 2265913	80838	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
tert-Butylbenzene	CBZd 5	Ave	8049 308006	13187 914743	16305 1948773	32853 3086357	100573	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	+++++ 208226	+++++ 652746	8741 1428400	22482 2172845	77403	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
sec-Butylbenzene	CBZd 5	Ave	12913 681583	25697 2039371	33762 4405699	73115 6974716	228649	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
4-Isopropyltoluene	CBZd 5	Ave	+++++ 595958	+++++ 1769907	26030 3774922	58962 5949837	197312	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
1,3-Dichlorobenzene	CBZd 5	Ave	+++++ 283117	+++++ 875174	12306 1901187	30950 3006358	98166	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
1,4-Dichlorobenzene	CBZd 5	Ave	+++++ 274128	9974 860463	16408 1889259	27868 2982984	98802	+++++ 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Benzyl chloride	CBZd 5	Ave	+++++ 382973	+++++ 1201584	+++++ 2697485	33835 4364826	117908	+++++ 6.40	+++++ 16.0	+++++ 32.0	0.640 48.0	1.60
n-Butylbenzene	CBZd 5	Ave	+++++ 287758	+++++ 868551	11100 1866309	21088 2941889	91232	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
1,2-Dichlorobenzene	CBZd 5	Ave	5618 276167	9905 821533	12567 1782817	29632 2808982	96161	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
1,2,4-Trichlorobenzene	CBZd 5	Ave	+++++ 158304	+++++ 554625	+++++ 1220384	16193 1911210	61713	+++++ 8.00	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00
Hexachlorobutadiene	CBZd 5	Ave	4039 188809	6278 535192	8261 1126481	18298 1717292	61000	0.200 8.00	0.300 20.0	0.400 40.0	0.800 60.0	2.00
Naphthalene	CBZd 5	Ave	+++++ 485629	+++++ 1554262	22577 3480776	45066 5492785	210291	+++++ 8.00	+++++ 20.0	0.400 40.0	0.800 60.0	2.00
1,2-Dichloroethane-d4 (Surr)	DFBZ	Ave	65759 64053	61296 65510	60770 78676	62572 91069	70001	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00
Toluene-d8 (Surr)	DFBZ	Ave	113979 127869	114204 127120	109445 140805	112556 153630	143723	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	102569 154070	122589 157240	123116 170804	132330 180887	177209	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Lims ID: IC 0.2ppbv
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Mar-2018 17:28:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 1 0.2ppbv
Misc. Info.: 50 mL w/ 1.0 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:18 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 14:53:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.229	12.229	0.000	96	42875	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.383	14.383	0.000	96	177356	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.051	21.057	-0.006	90	158077	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.434	13.434	0.000	95	65759	4.00	3.93	
$ 5 Toluene-d8 (Surr)	100	17.784	17.784	0.000	98	113979	4.00	3.69	
$ 6 4-Bromofluorobenzene (Surr	95	23.600	23.606	-0.006	89	102569	4.00	3.49	
11 Propene	41	3.846	3.816	0.030	99	2449	0.2000	0.2371	
12 Chlorodifluoromethane	51	3.865	3.834	0.031	92	3846	0.2000	0.2038	
13 Dichlorodifluoromethane	85	3.907	3.883	0.024	95	3990	0.2000	0.2309	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.157	4.138	0.019	93	2977	0.2000	0.1910	
16 Chloromethane	50	4.363	4.333	0.030	97	2855	0.2000	0.3081	
17 Butane	43	4.582	4.558	0.024	80	3207	0.2000	0.2034	
18 Vinyl chloride	62	4.625	4.595	0.031	94	1774	0.2000	0.2174	
19 Butadiene	39	4.704	4.680	0.024	90	2742	0.2000	0.3324	
21 Bromomethane	94	5.538	5.489	0.049	1	1232	0.2000	0.1989	a
25 Vinyl bromide	106	6.243	6.201	0.042	83	1367	0.2000	0.1817	
26 Trichlorofluoromethane	101	6.371	6.359	0.012	8	4679	0.2000	0.1977	a
32 Acetone	43	7.387	7.283	0.104	97	4416	0.2000	0.2193	
33 1,1,2-Trichloro-1,2,2-trif	101	7.478	7.442	0.036	90	3630	0.2000	0.1866	
34 1,1-Dichloroethene	61	7.722	7.673	0.049	94	3142	0.2000	0.1834	
38 3-Chloro-1-propene	41	8.482	8.445	0.037	91	3337	0.2000	0.1818	
39 Methylene Chloride	49	8.677	8.628	0.049	93	3595	0.2000	0.2187	
42 Methyl tert-butyl ether	73	9.261	9.212	0.049	40	5556	0.2000	0.1952	a
43 trans-1,2-Dichloroethene	61	9.443	9.394	0.049	92	2537	0.2000	0.1658	
44 Hexane	41	9.851	9.820	0.031	50	2628	0.2000	0.1687	
45 1,1-Dichloroethane	63	10.289	10.258	0.031	94	3672	0.2000	0.1797	
52 Ethyl acetate	43	11.688	11.591	0.097	91	6225	0.2000	0.1748	
53 Chloroform	83	11.950	11.925	0.025	95	3973	0.2000	0.1825	
54 Tetrahydrofuran	42	12.461	12.363	0.098	92	3924	0.2000	0.1956	
55 1,1,1-Trichloroethane	97	12.893	12.862	0.031	64	4415	0.2000	0.1844	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
56 Cyclohexane	84	13.087	13.051	0.036	87	2386	0.2000	0.1850	
58 Isooctane	57	13.404	13.349	0.055	94	14011	0.2000	0.1956	
59 Carbon tetrachloride	117	13.483	13.446	0.037	85	4943	0.2000	0.1973	
61 1,2-Dichloroethane	62	13.635	13.592	0.043	90	3055	0.2000	0.1839	
63 Benzene	78	13.756	13.726	0.030	94	6667	0.2000	0.2004	
64 n-Heptane	43	13.939	13.890	0.049	87	5925	0.2000	0.1855	
65 Trichloroethene	130	15.150	15.113	0.037	93	2985	0.2000	0.1869	
67 Methyl methacrylate	69	15.667	15.575	0.092	83	1786	0.2000	0.1404	
68 Dichlorobromomethane	85	15.916	15.880	0.036	93	3101	0.2000	0.1872	
69 1,4-Dioxane	88	15.971	15.898	0.073	58	1768	0.2000	0.1932	
70 Dibromomethane	174	15.977	15.934	0.043	95	2911	0.2000	0.1977	
71 4-Methyl-2-pentanone (MIBK	43	16.798	16.725	0.073	97	8071	0.2000	0.1617	
72 cis-1,3-Dichloropropene	75	17.157	17.102	0.055	94	4533	0.2000	0.1881	
73 n-Octane	43	17.832	17.784	0.048	92	10682	0.2000	0.2495	
75 Toluene	91	17.960	17.918	0.042	93	8934	0.2000	0.1909	
76 trans-1,3-Dichloropropene	75	18.258	18.203	0.055	91	3748	0.2000	0.2029	
77 1,1,2-Trichloroethane	97	18.575	18.544	0.031	92	2951	0.2000	0.2326	
78 2-Hexanone	58	18.733	18.660	0.073	88	2723	0.2000	0.1416	
80 Tetrachloroethene	166	19.463	19.432	0.031	96	4833	0.2000	0.2353	
81 Chlorodibromomethane	129	19.682	19.651	0.031	95	5843	0.2000	0.2210	
82 Ethylene Dibromide	107	20.150	20.108	0.042	97	4509	0.2000	0.2153	
83 Chlorobenzene	112	21.136	21.099	0.037	92	7604	0.2000	0.2192	
84 n-Nonane	43	21.209	21.166	0.043	92	8333	0.2000	0.1937	
86 Ethylbenzene	91	21.312	21.276	0.036	97	11628	0.2000	0.2103	
87 m-Xylene & p-Xylene	91	21.489	21.458	0.031	98	18132	0.4000	0.4238	
88 o-Xylene	91	22.389	22.359	0.030	96	8749	0.2000	0.2054	
89 Styrene	104	22.426	22.389	0.037	94	6456	0.2000	0.1965	
90 Bromoform	173	22.991	22.955	0.036	92	5727	0.2000	0.2196	
92 Isopropylbenzene	120	23.174	23.143	0.031	97	3257	0.2000	0.1999	
93 1,1,2,2-Tetrachloroethane	83	23.368	23.344	0.024	96	6510	0.2000	0.2178	
97 1,2,3-Trichloropropane	110	23.673	23.642	0.031	91	1901	0.2000	0.2051	
99 N-Propylbenzene	91	24.013	23.983	0.030	98	14084	0.2000	0.2005	
102 4-Ethyltoluene	120	24.263	24.220	0.043	96	3215	0.2000	0.1793	
103 2-Chlorotoluene	126	24.318	24.293	0.025	98	3140	0.2000	0.2084	
104 1,3,5-Trimethylbenzene	120	24.348	24.317	0.031	91	5667	0.2000	0.2148	M
105 Alpha Methyl Styrene	118	24.926	24.895	0.031	84	3408	0.2000	0.1376	
106 tert-Butylbenzene	91	25.066	25.047	0.019	92	8049	0.2000	0.2227	
107 1,2,4-Trimethylbenzene	120	25.145	25.114	0.031	93	3914	0.2000	0.1634	
108 sec-Butylbenzene	105	25.528	25.498	0.030	97	12913	0.2000	0.1695	
109 4-Isopropyltoluene	119	25.845	25.771	0.073	96	12574	0.2000	0.1932	M
110 1,3-Dichlorobenzene	146	25.911	25.875	0.036	92	4319	0.2000	0.1336	
111 1,4-Dichlorobenzene	146	26.112	26.076	0.036	87	2778	0.2000	0.0850	a
116 1,2-Dichlorobenzene	146	26.854	26.806	0.048	92	5618	0.2000	0.1830	
120 Hexachlorobutadiene	225	30.523	30.486	0.037	88	4039	0.2000	0.2033	
122 1,2,3-Trichlorobenzene	180	31.186	31.088	0.098	91	3122	0.2000	0.1807	
A 139 C6 Range	1	9.881	(9.623-10.066)		0	18804	0.2000	0.2202	
A 146 Total VOC as Hexane	1	16.257	(3.862-28.679)		0	1902563	0.2000	22.3	
A 145 Nonmethane Organic Compoun	1	16.257	(3.862-28.679)		0	1902563	0.2000	22.3	
A 147 TVOC as Toluene	1	16.558	(3.667-29.217)		0	1938761	0.2000	0	
A 144 Total VOCs as Tetrachloroe	1	16.558	(3.667-29.217)		0	1938761	0.2000	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	13888	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.691)		0	44497	NC	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
S 150 Xylenes, Total	91				0		0.6000	0.6291	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

VACORPIC1.0_00145	Amount Added: 50.00	Units: mL		
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent	

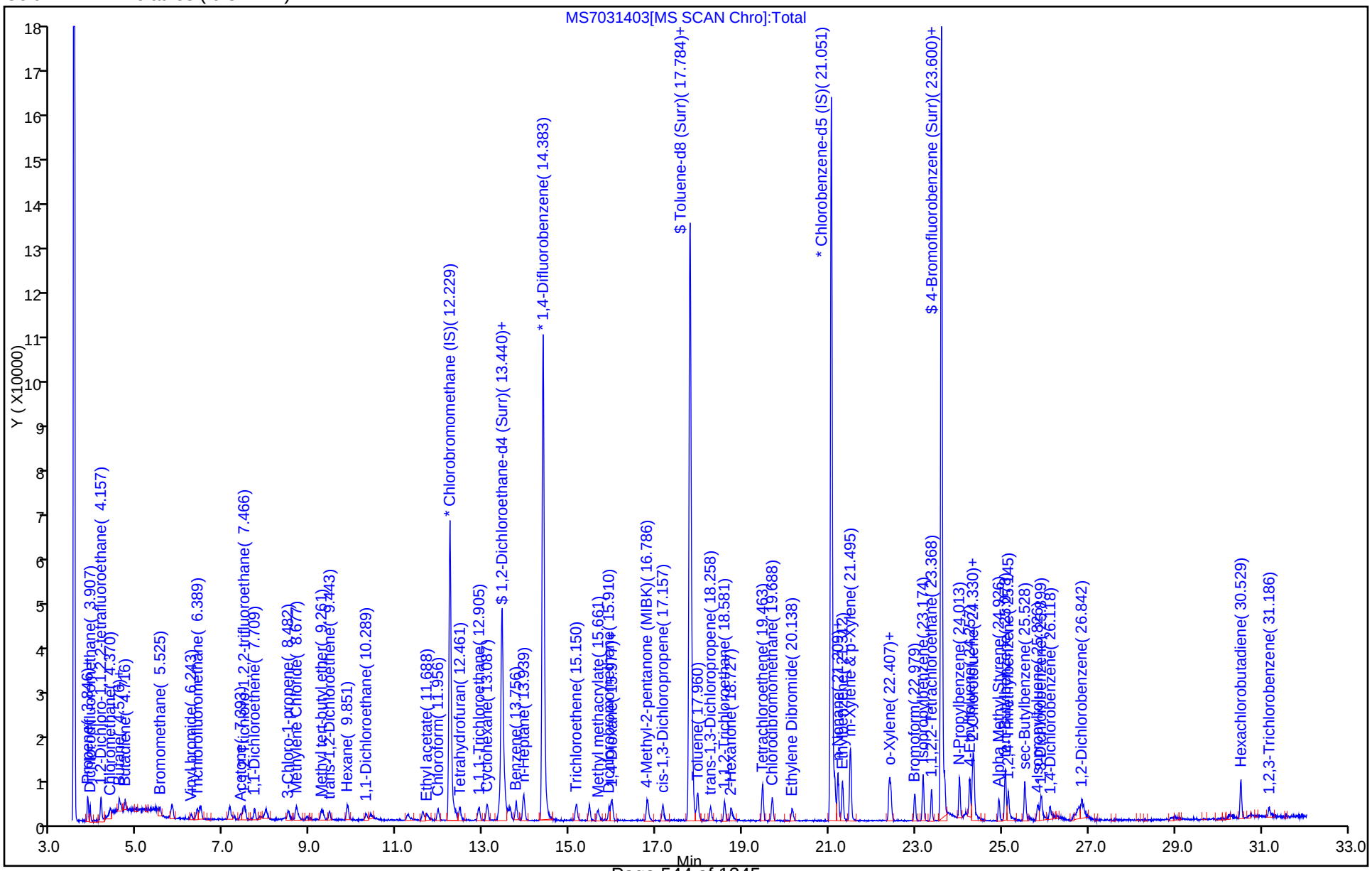
Report Date: 15-Mar-2018 11:13:21 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D

Injection Date:	14-Mar-2018 17:28:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 0.2ppbv			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:13:21 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D

Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7

Lims ID: IC 0.2ppbv

Client ID:

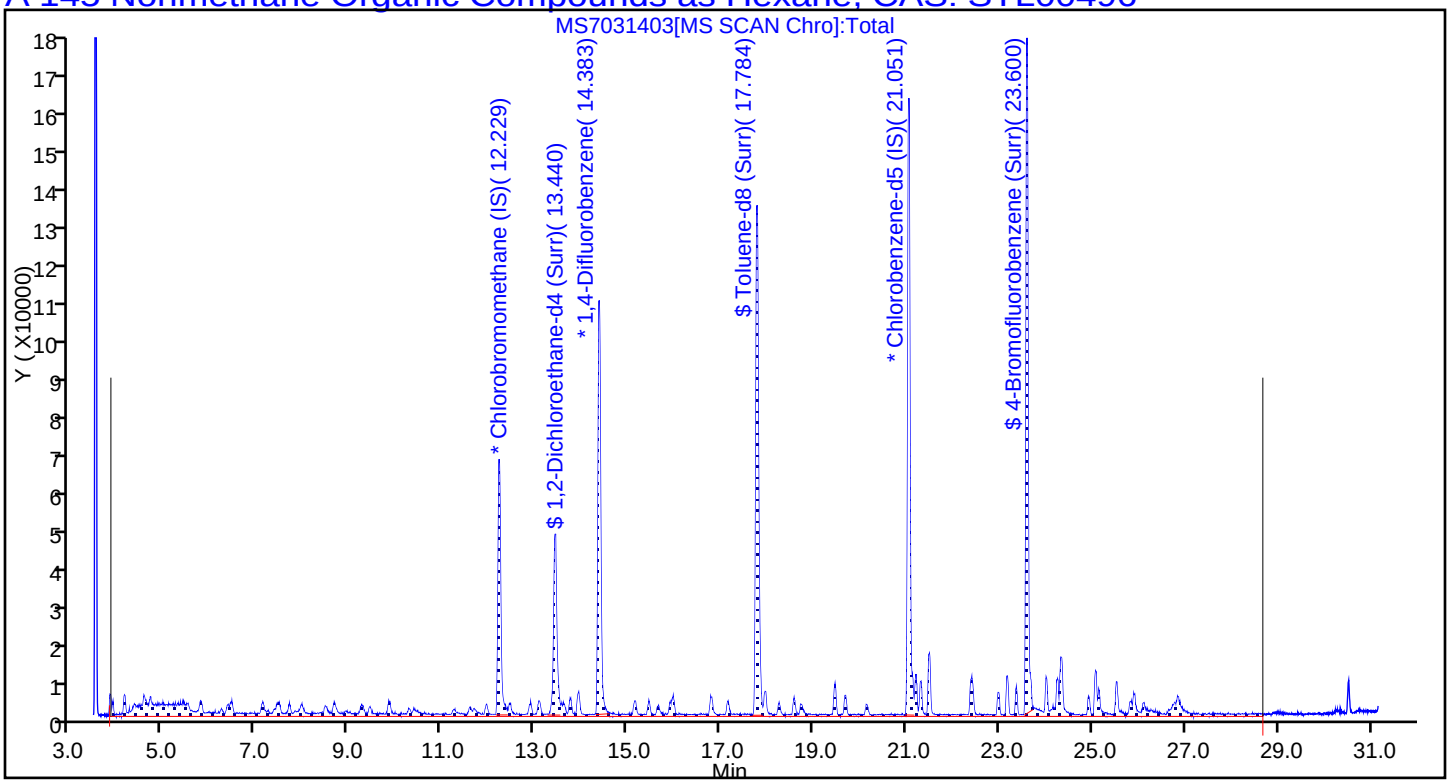
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

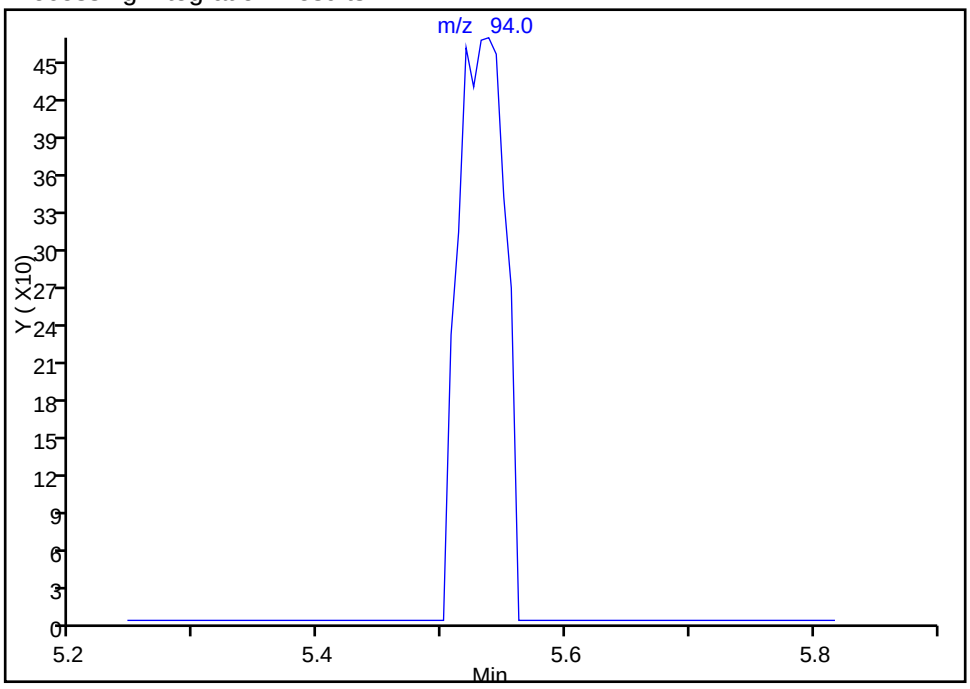
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Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

21 Bromomethane, CAS: 74-83-9

Signal: 1

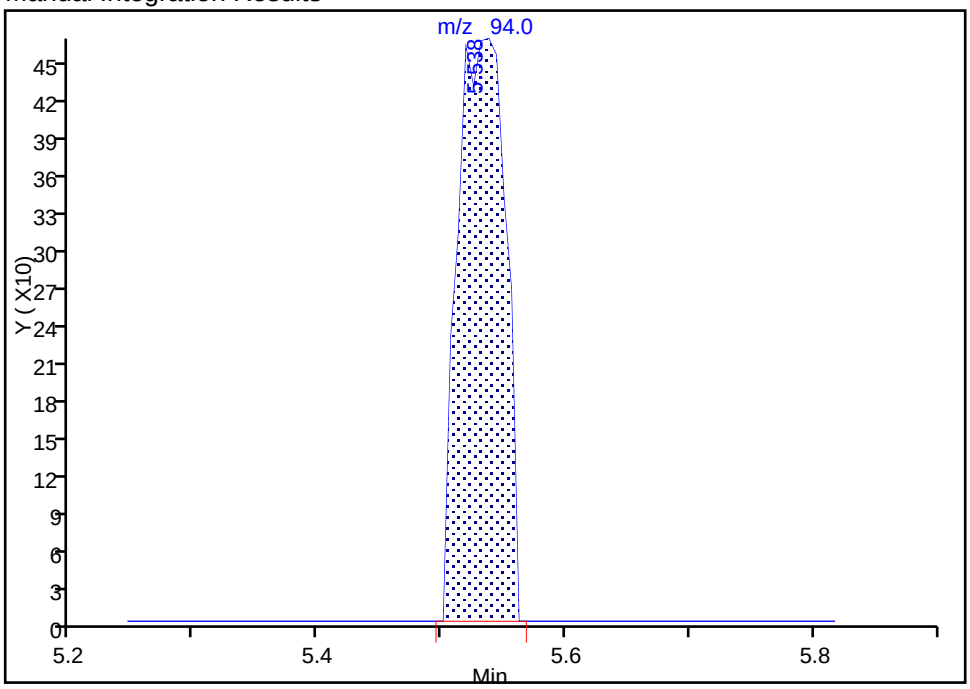
Not Detected
Expected RT: 5.49

Processing Integration Results



Manual Integration Results

RT: 5.54
Area: 1232
Amount: 0.198891
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:49:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

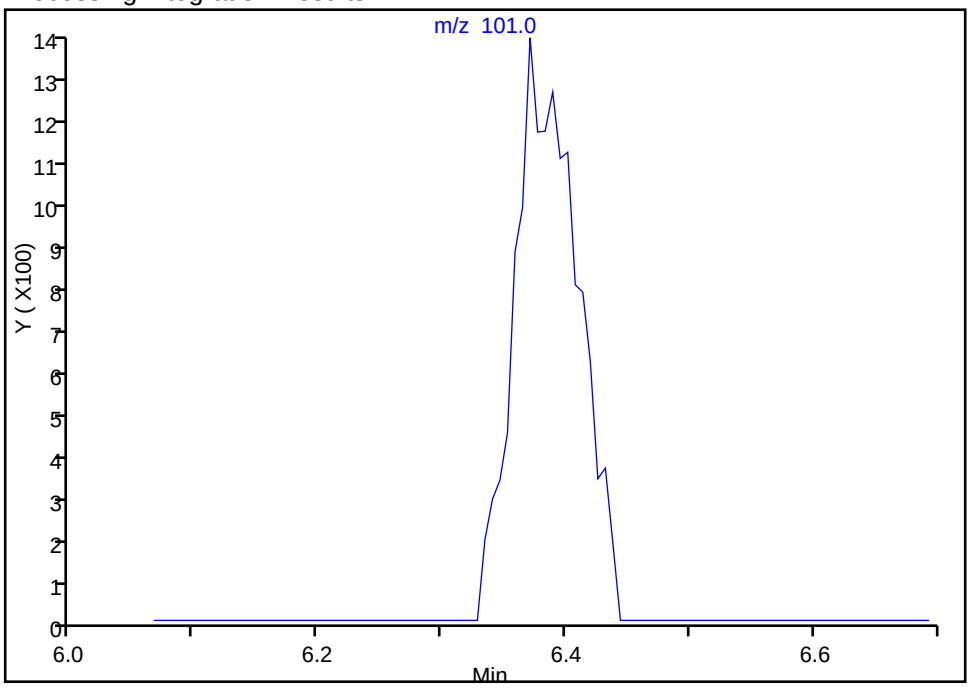
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Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

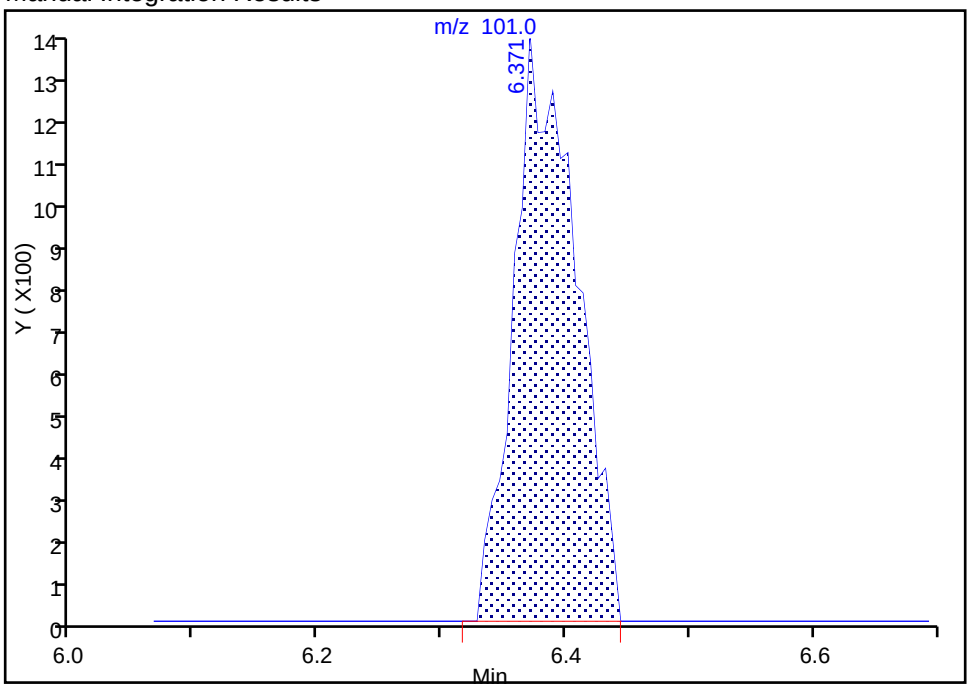
Not Detected
Expected RT: 6.36

Processing Integration Results



Manual Integration Results

RT: 6.37
Area: 4679
Amount: 0.197699
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:50:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

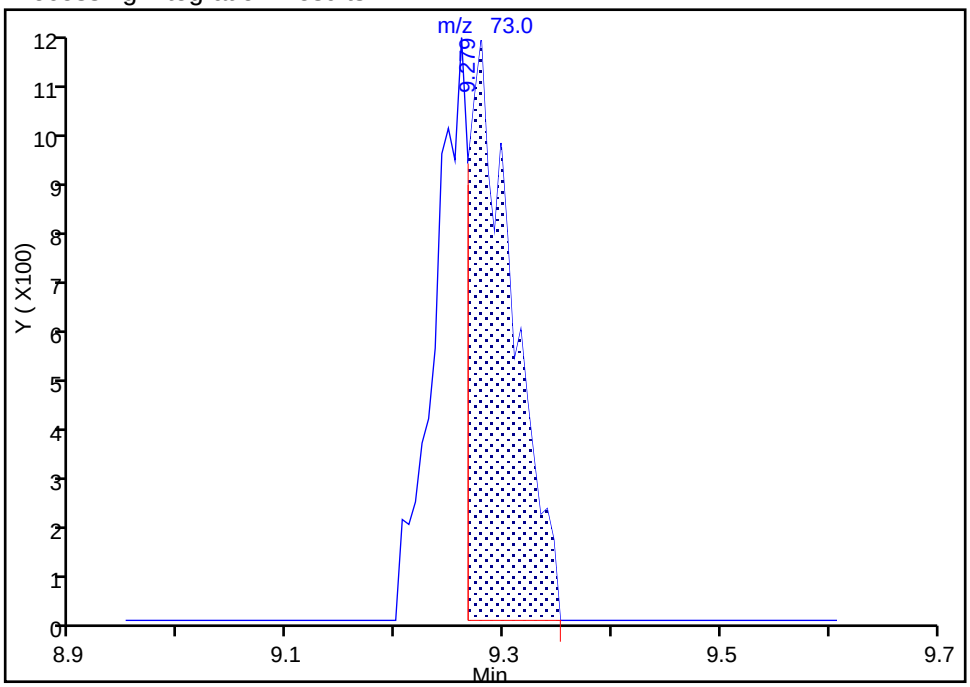
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Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

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

Signal: 1

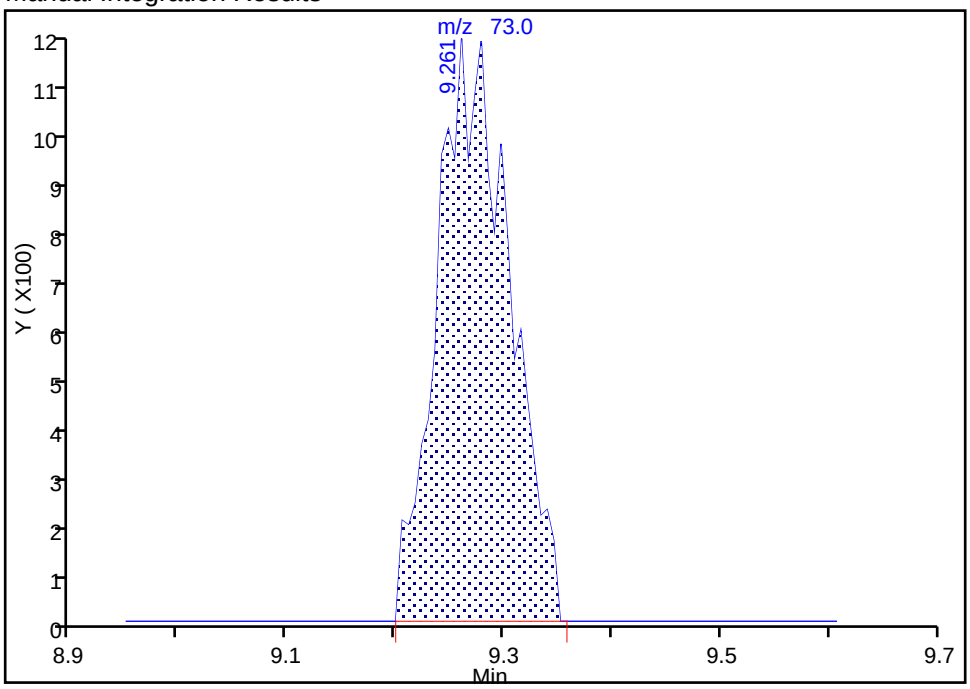
Processing Integration Results

RT: 9.28
Area: 3343
Amount: 0.125472
Amount Units: ppb v/v



Manual Integration Results

RT: 9.26
Area: 5556
Amount: 0.195186
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:50:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

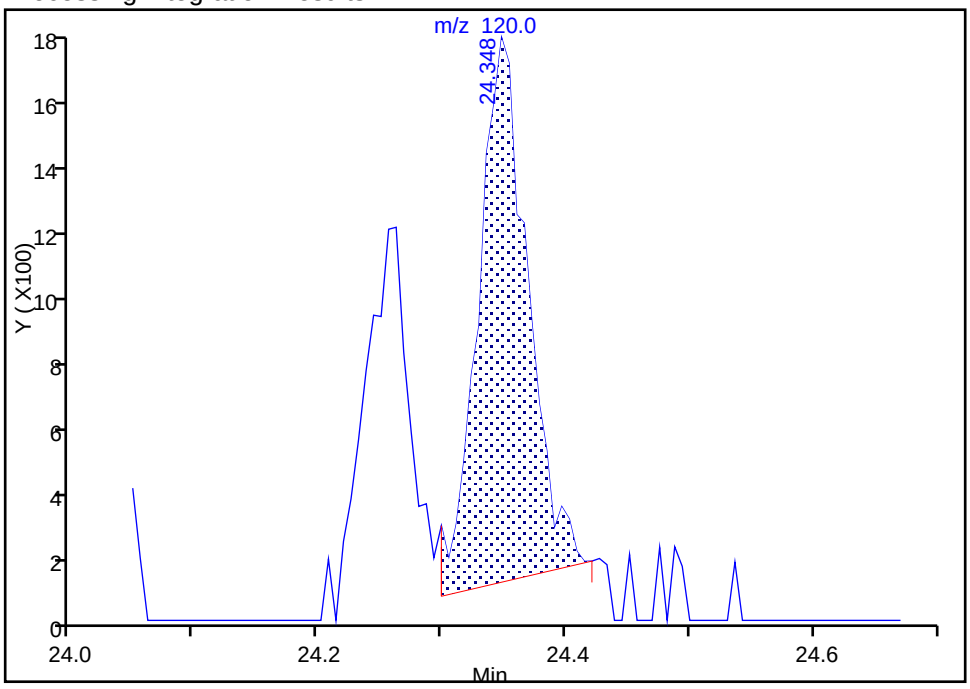
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Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

104 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

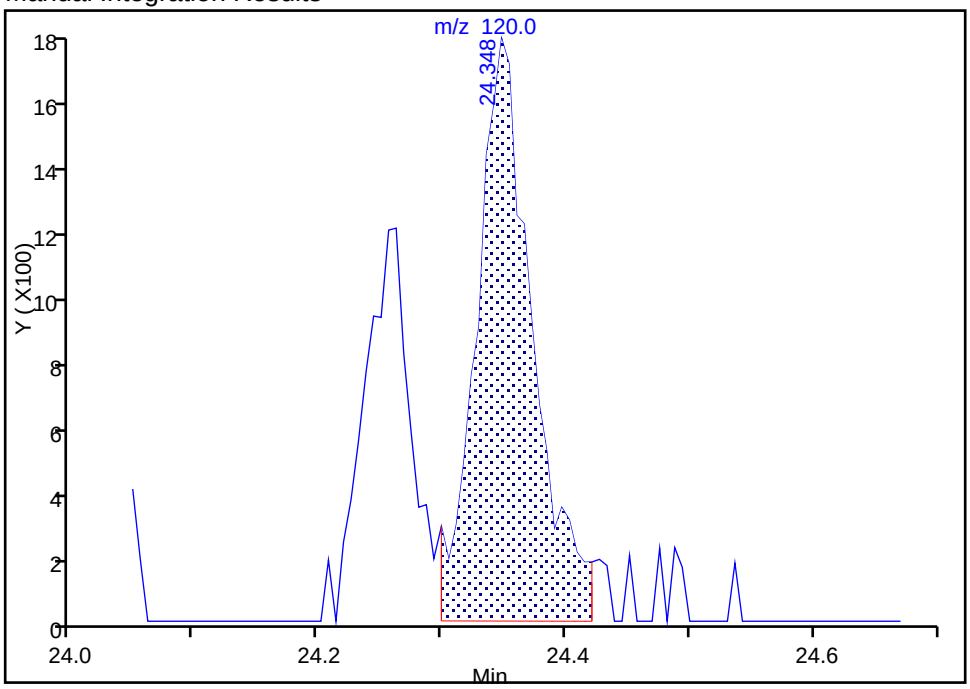
Processing Integration Results

RT: 24.35
Area: 4690
Amount: 0.179022
Amount Units: ppb v/v



Manual Integration Results

RT: 24.35
Area: 5667
Amount: 0.214841
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:51:57
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

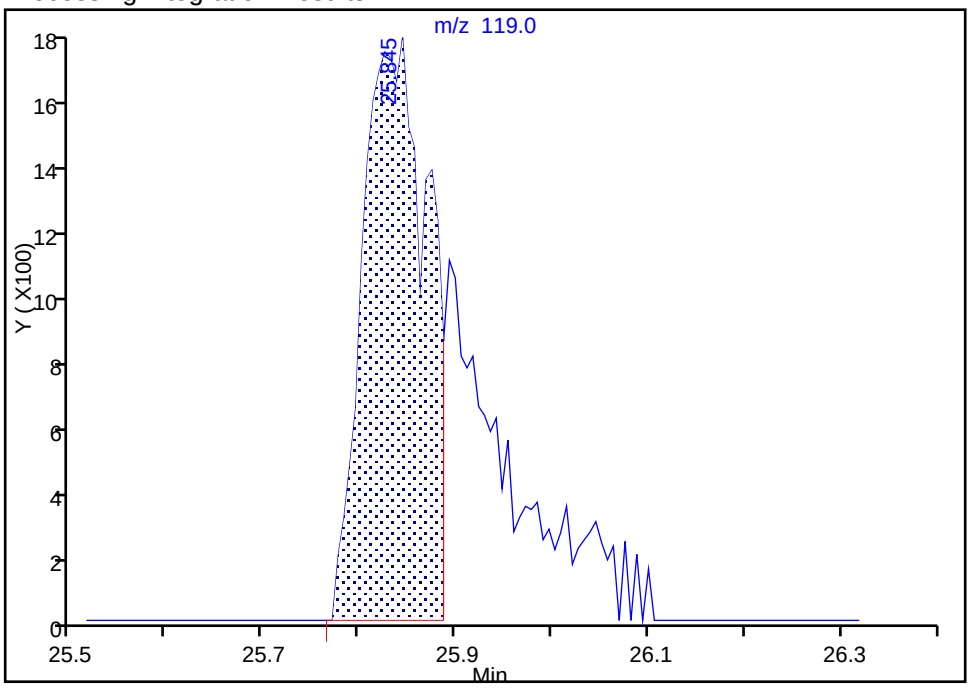
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Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

109 4-Isopropyltoluene, CAS: 99-87-6

Signal: 1

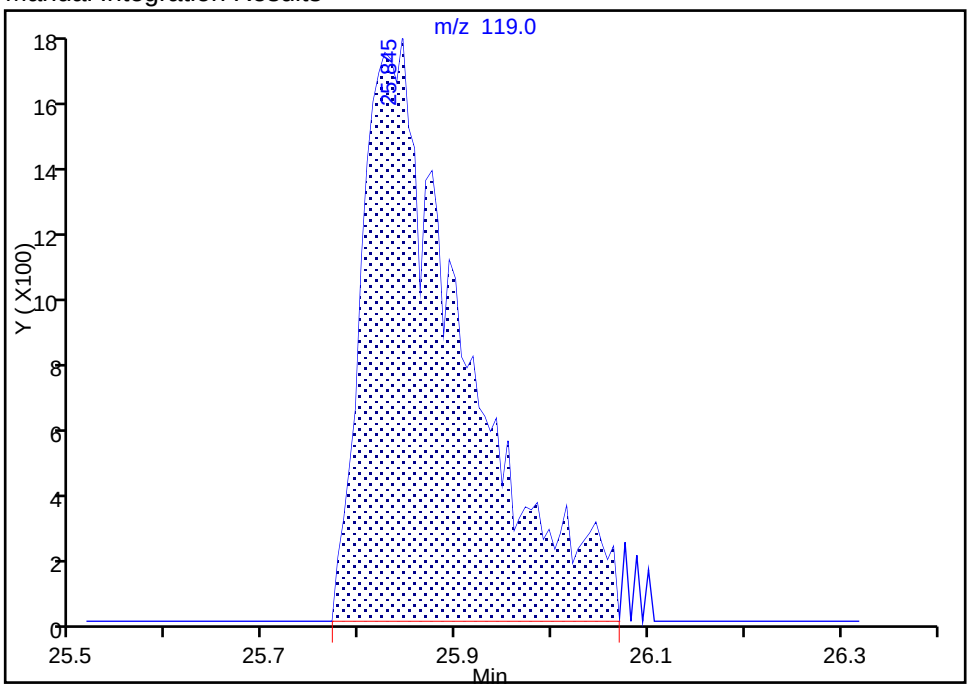
Processing Integration Results

RT: 25.84
Area: 8077
Amount: 0.121278
Amount Units: ppb v/v



Manual Integration Results

RT: 25.84
Area: 12574
Amount: 0.193223
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:52:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

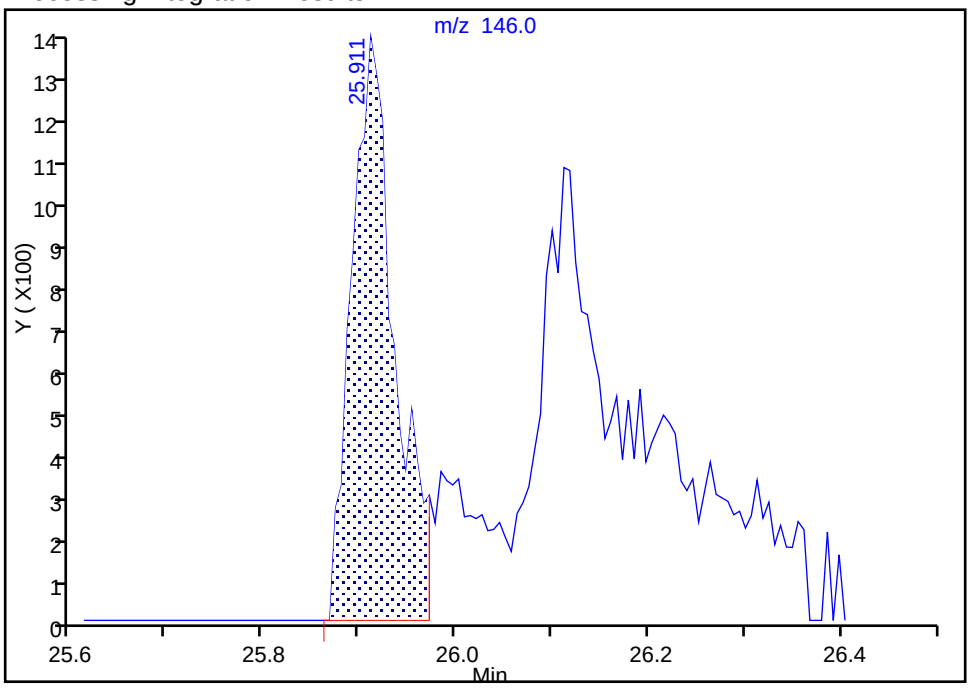
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

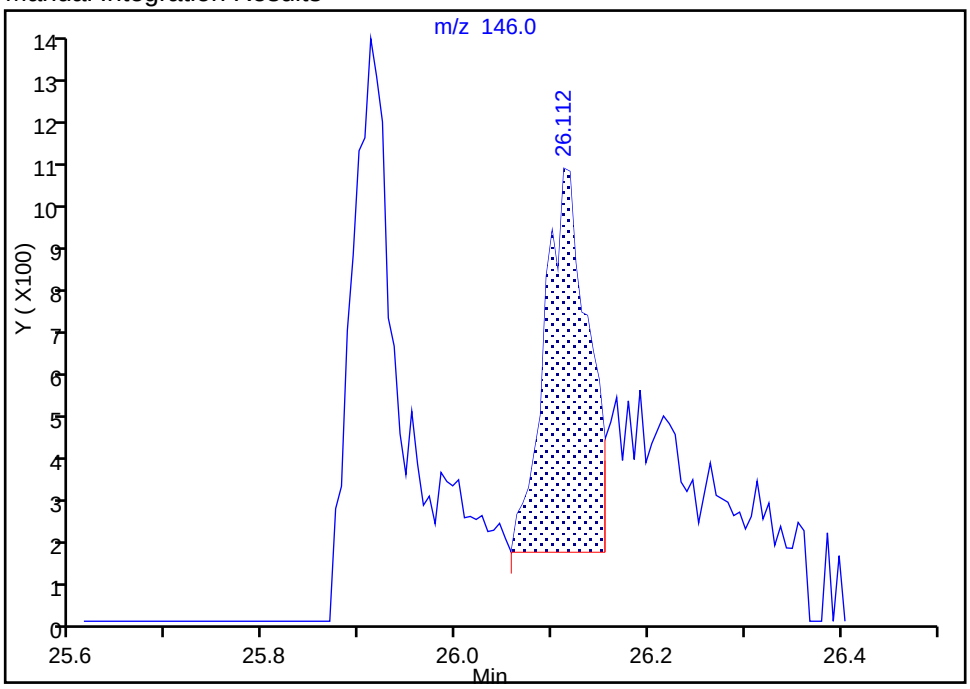
Processing Integration Results

RT: 25.91
Area: 4237
Amount: 0.127222
Amount Units: ppb v/v



Manual Integration Results

RT: 26.11
Area: 2778
Amount: 0.084983
Amount Units: ppb v/v



Reviewer: leeh, 15-Mar-2018 06:27:15
Audit Action: Assigned Compound ID Audit Reason: Baseline

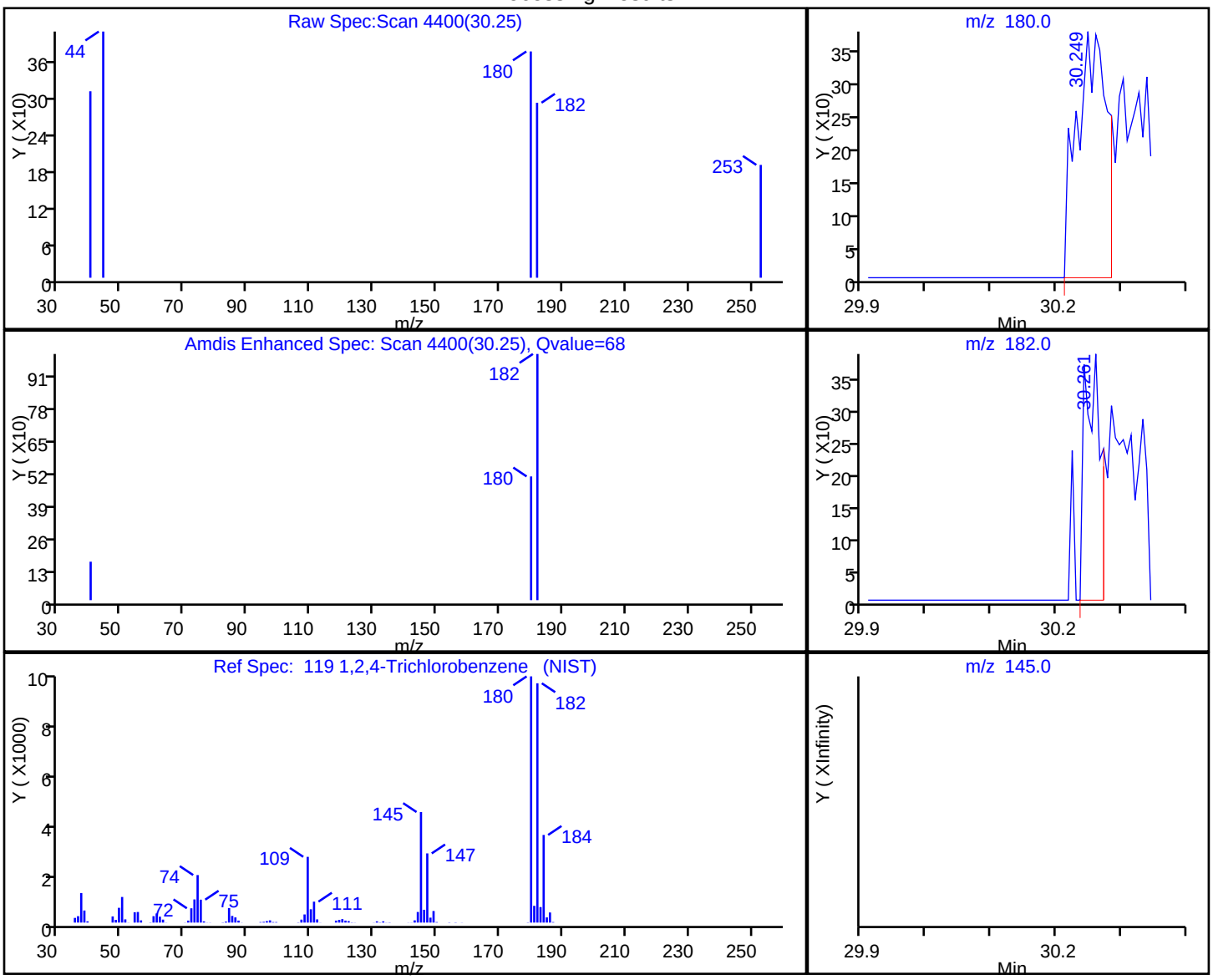
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
30.25	180.00	1203	0.077736
30.26	182.00	645	
30.15	145.00	0	

Reviewer: leeh, 15-Mar-2018 06:27:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

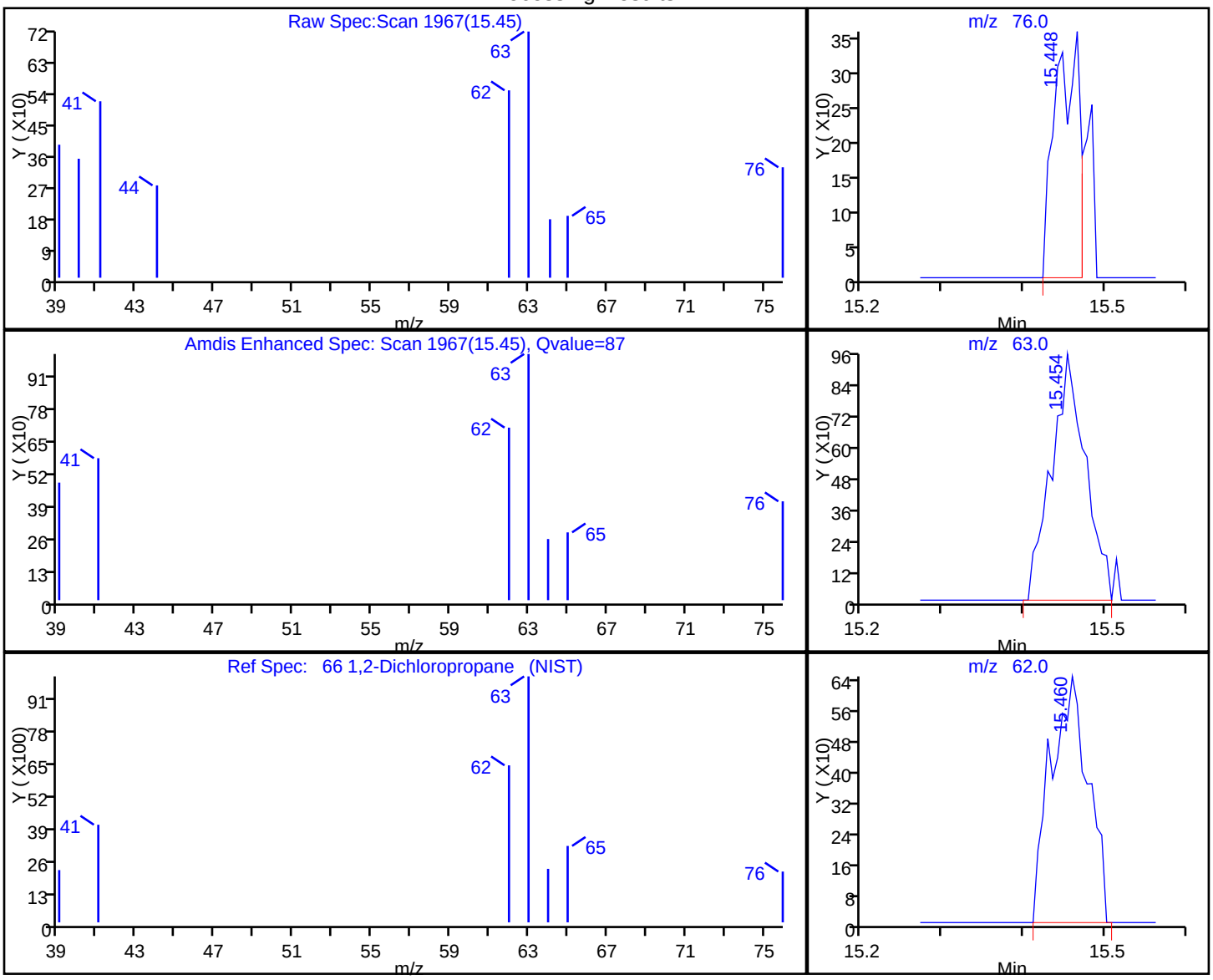
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

66 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
15.45	76.00	737	0.141370
15.45	63.00	2796	
15.46	62.00	2064	

Reviewer: leeh, 15-Mar-2018 06:27:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

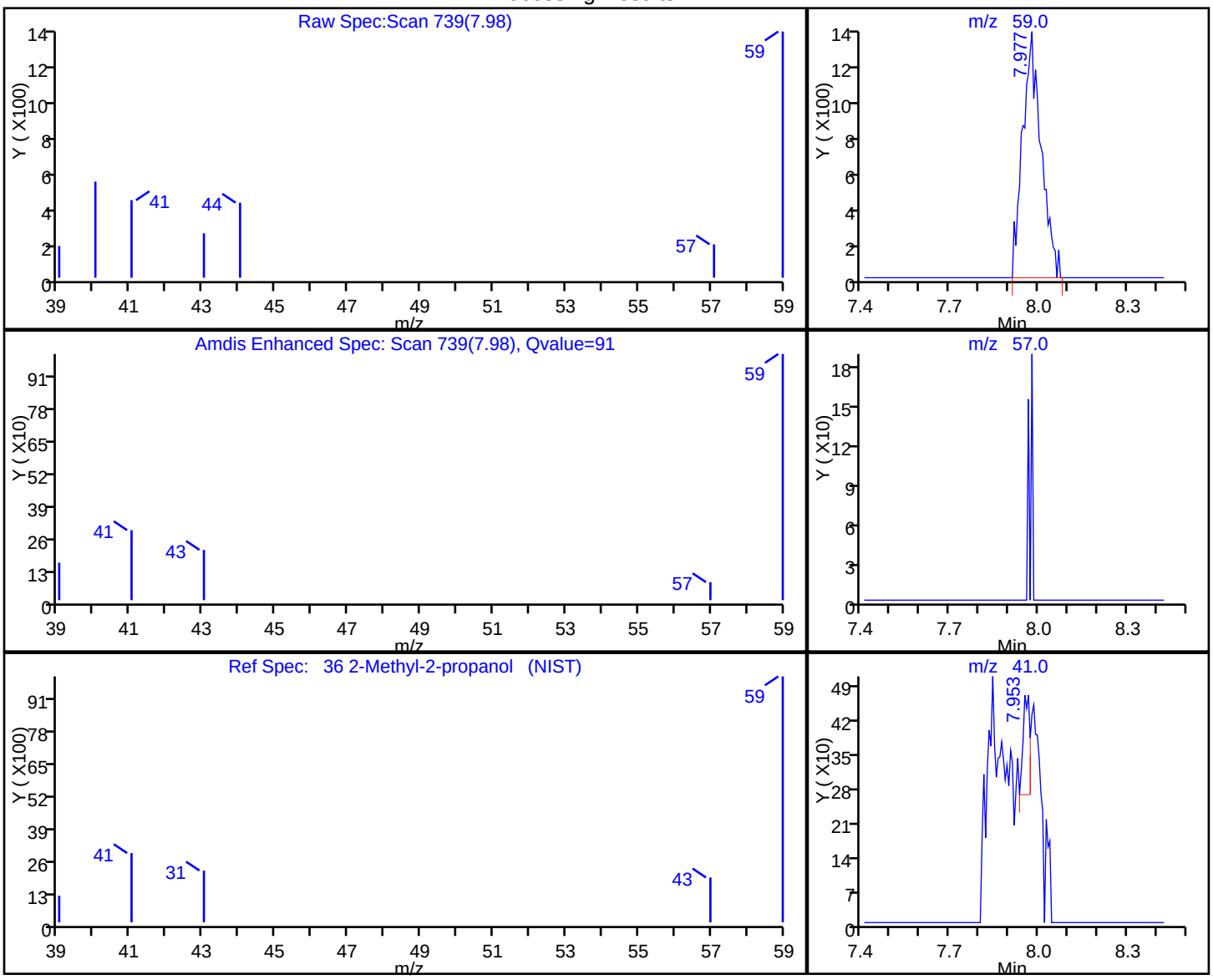
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

36 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
7.98	59.00	5959	0.190117
7.90	57.00	0	
7.95	41.00	317	

Reviewer: leeh, 15-Mar-2018 06:27:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

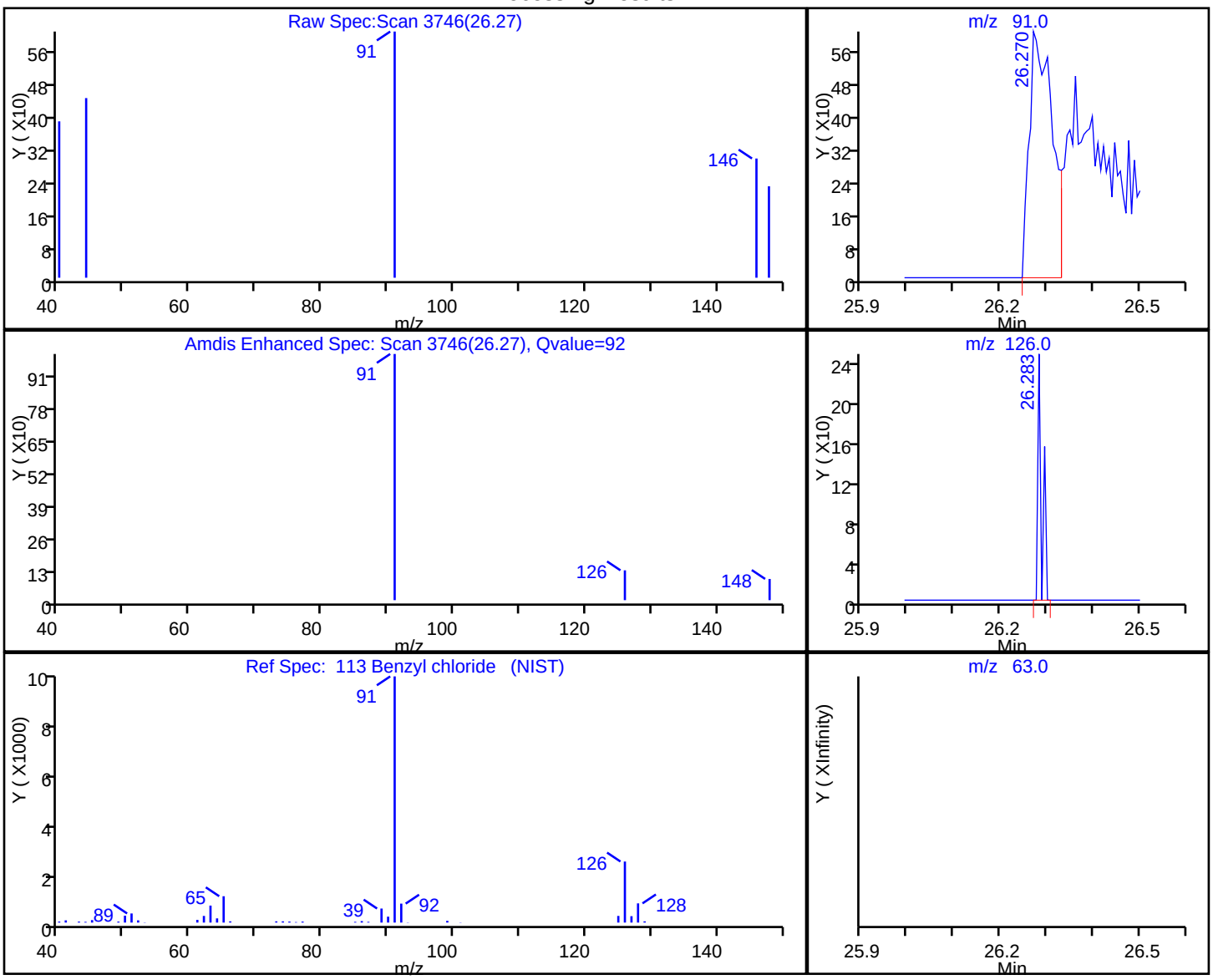
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

113 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
26.27	91.00	2090	0.158371
26.28	126.00	143	
26.27	63.00	0	

Reviewer: phanthasena, 15-Mar-2018 14:53:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

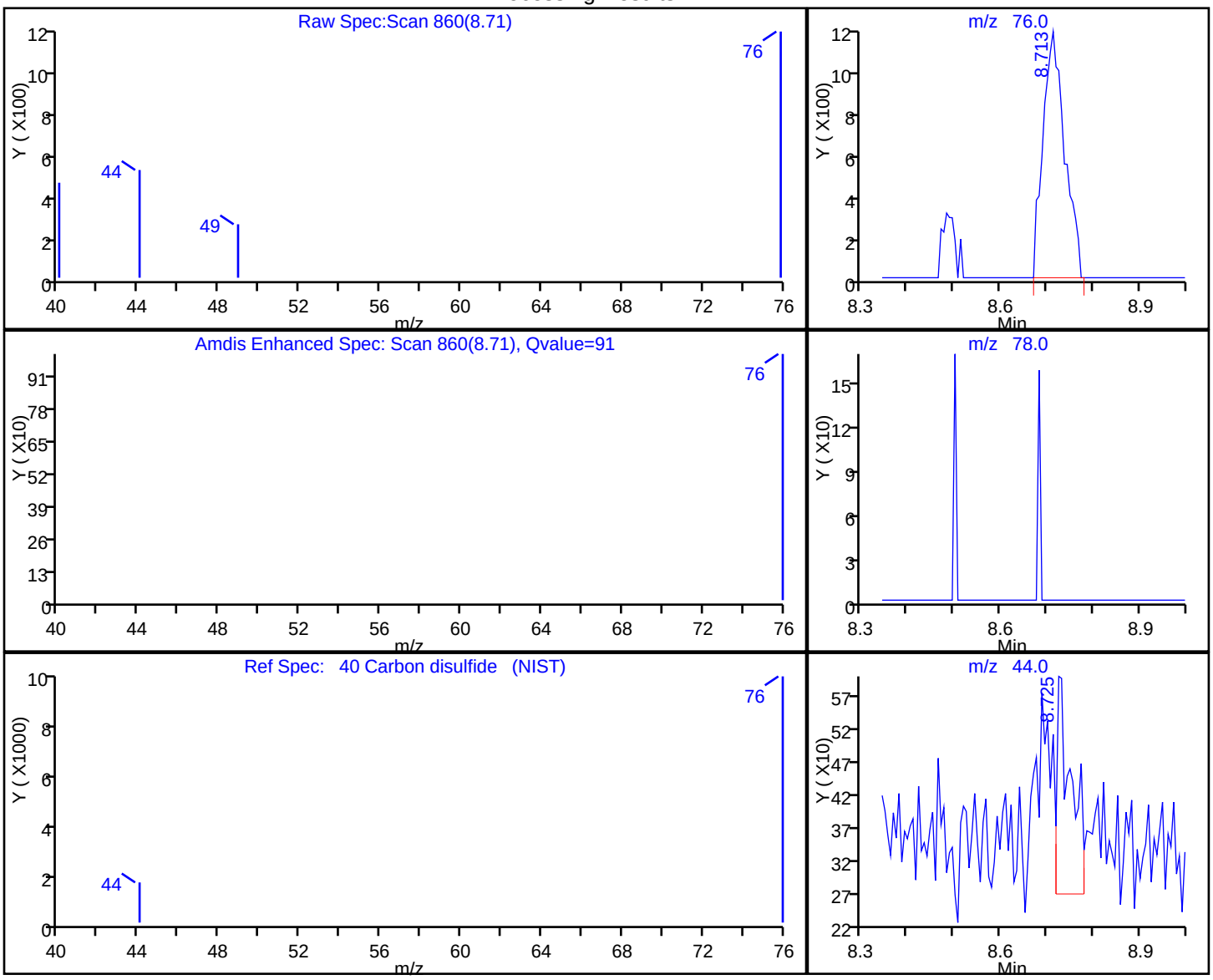
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.71	76.00	3776	0.188285
8.70	78.00	0	
8.73	44.00	706	

Reviewer: phanthasena, 15-Mar-2018 14:53:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

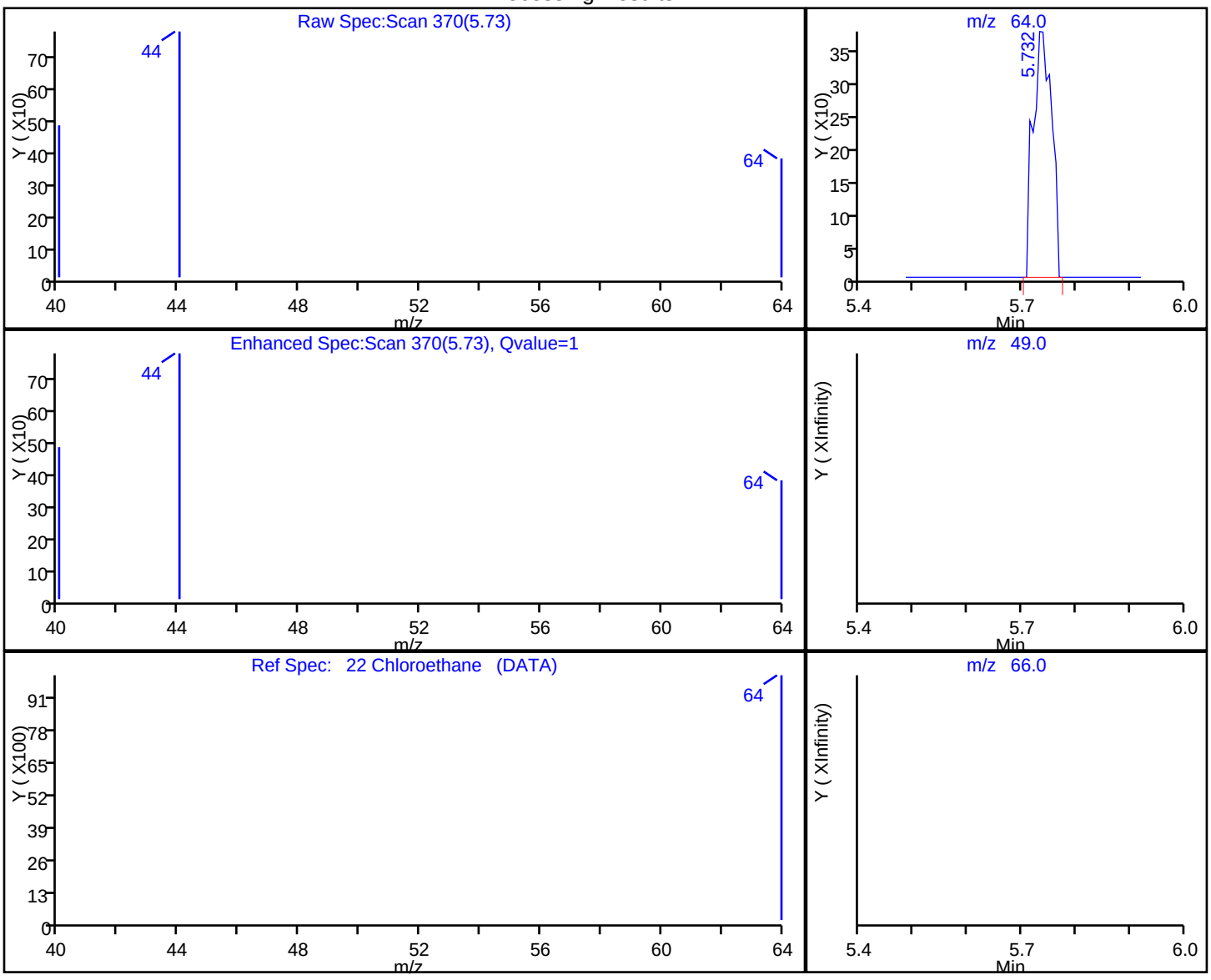
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

22 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
5.73	64.00	906	0.193677
5.72	49.00	0	
5.72	66.00	0	

Reviewer: phanthasena, 15-Mar-2018 14:53:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

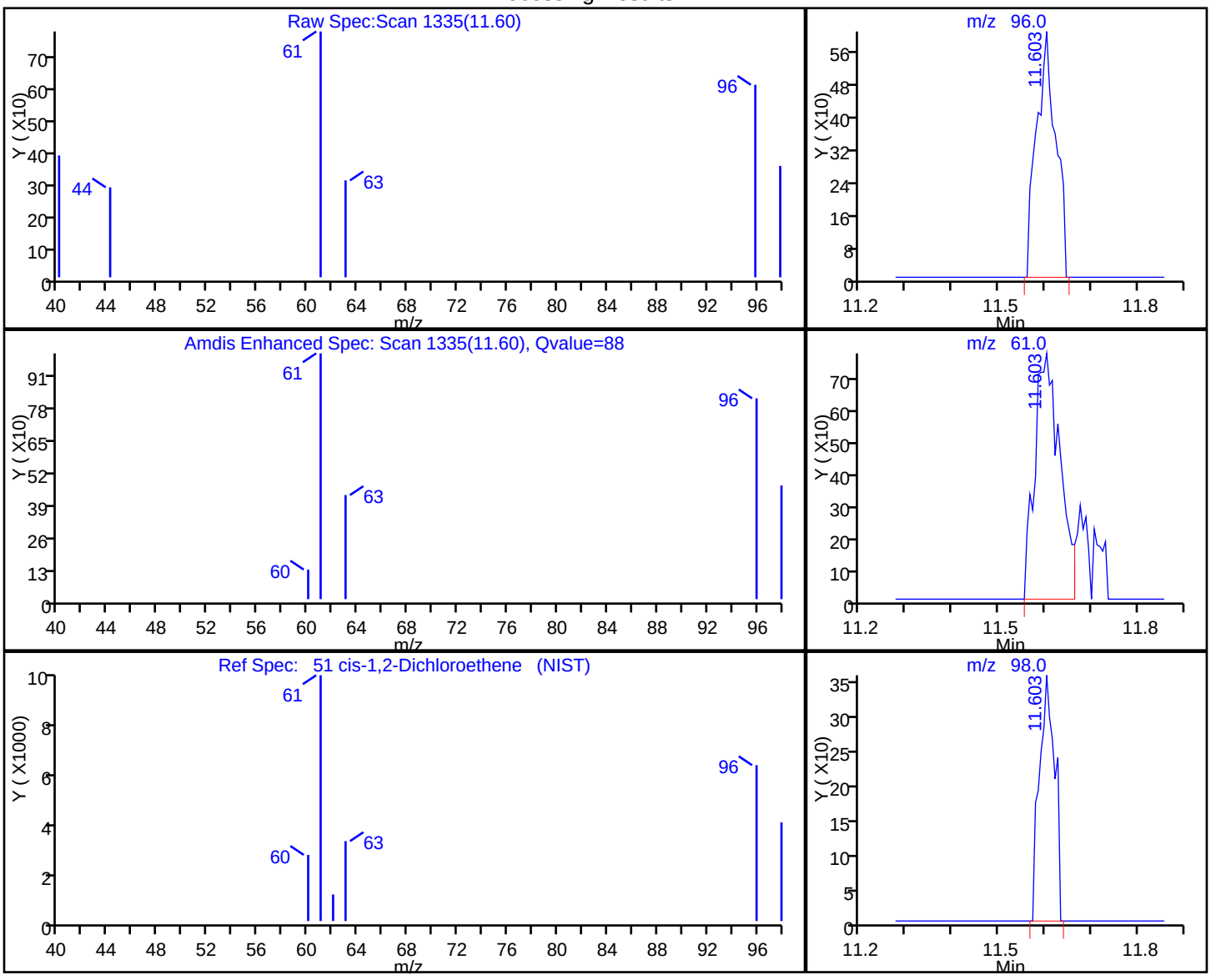
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

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

Processing Results



RT	Mass	Response	Amount
11.60	96.00	1767	0.173910
11.60	61.00	2981	
11.60	98.00	812	

Reviewer: leeh, 15-Mar-2018 06:27:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

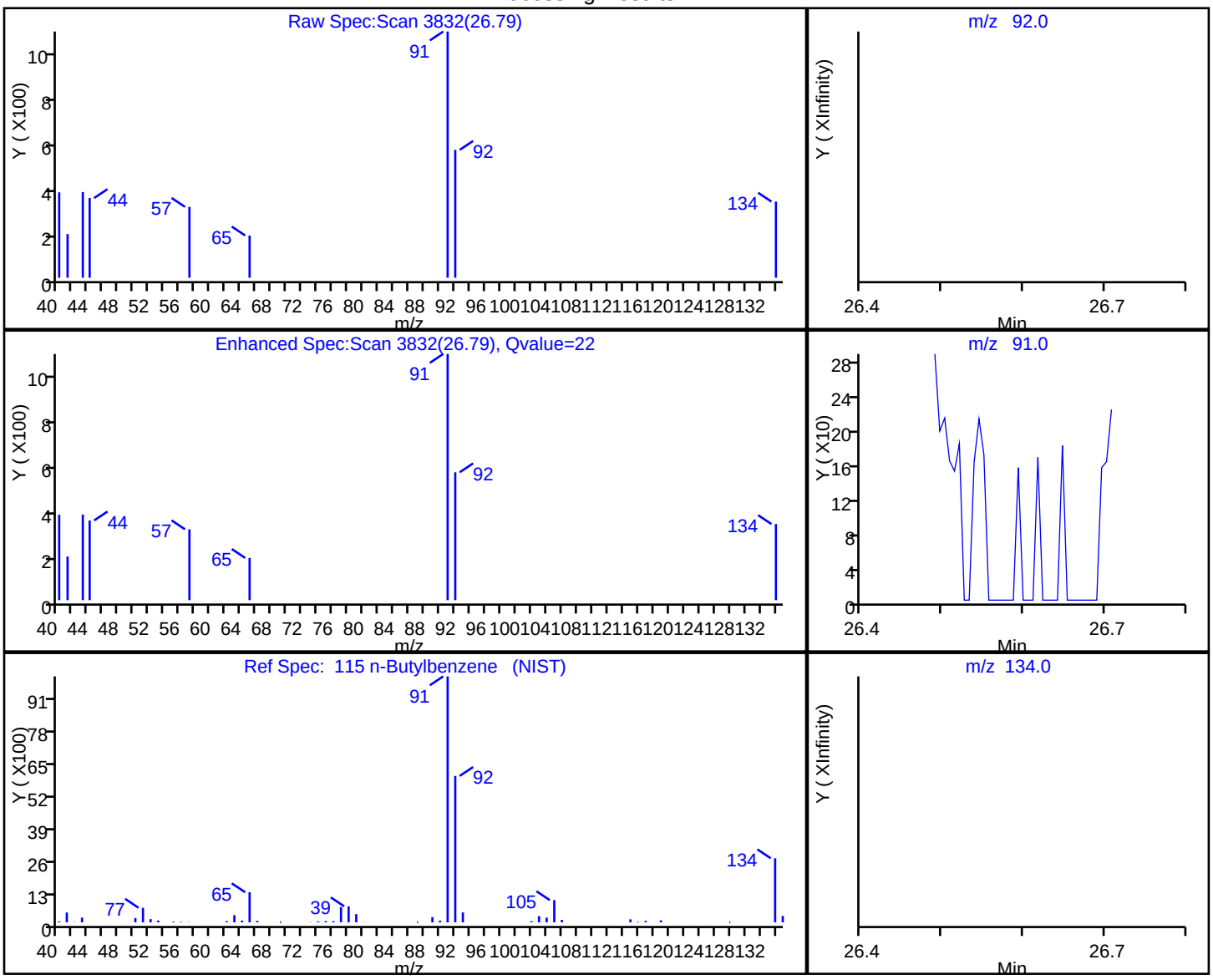
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

115 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
26.79	92.00	1105	0.187538
26.78	91.00	5959	
26.79	134.00	587	

Reviewer: leeh, 15-Mar-2018 06:27:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

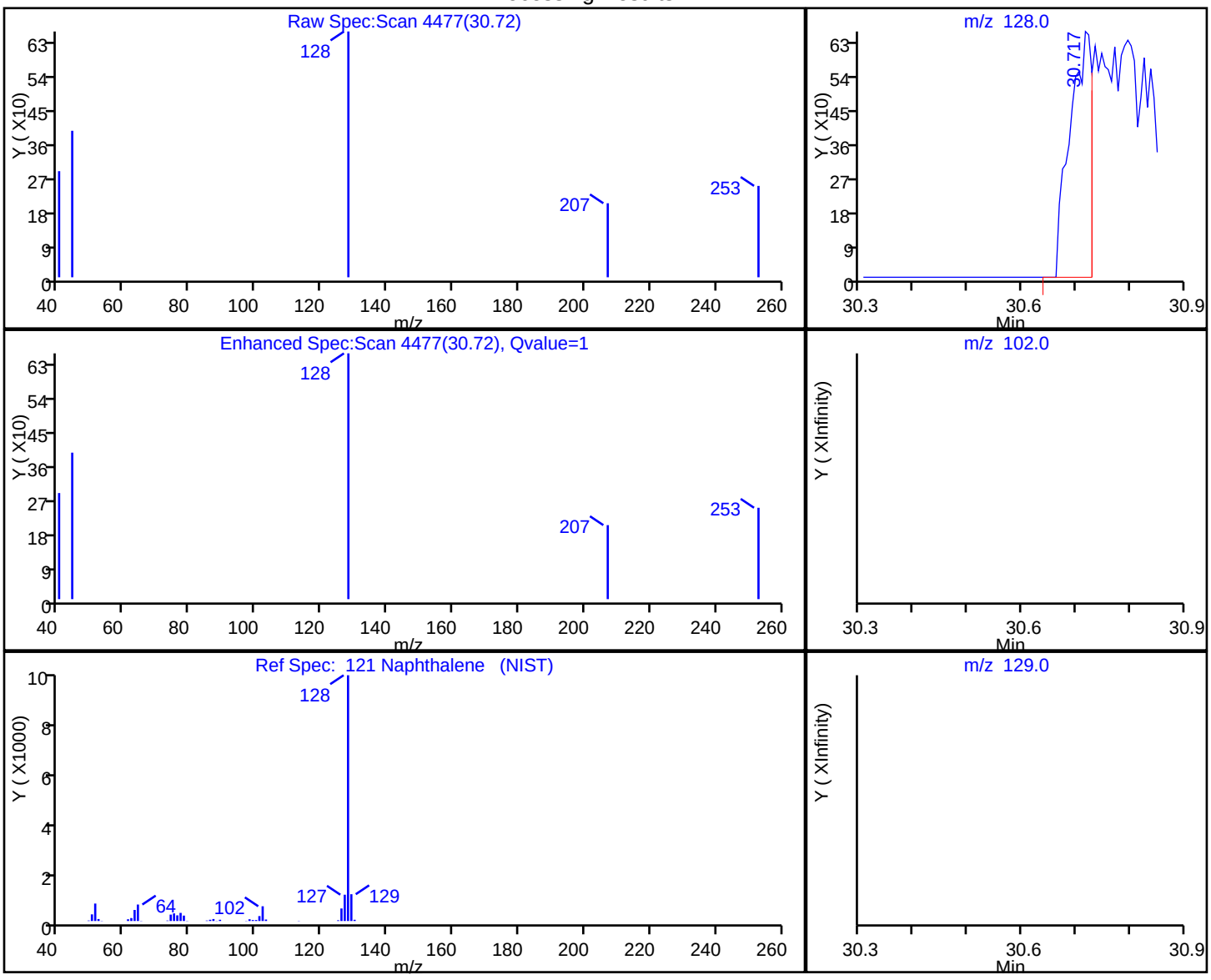
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.72	128.00	1829	0.453828
30.69	102.00	0	
30.69	129.00	0	

Reviewer: phanthasena, 15-Mar-2018 14:53:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

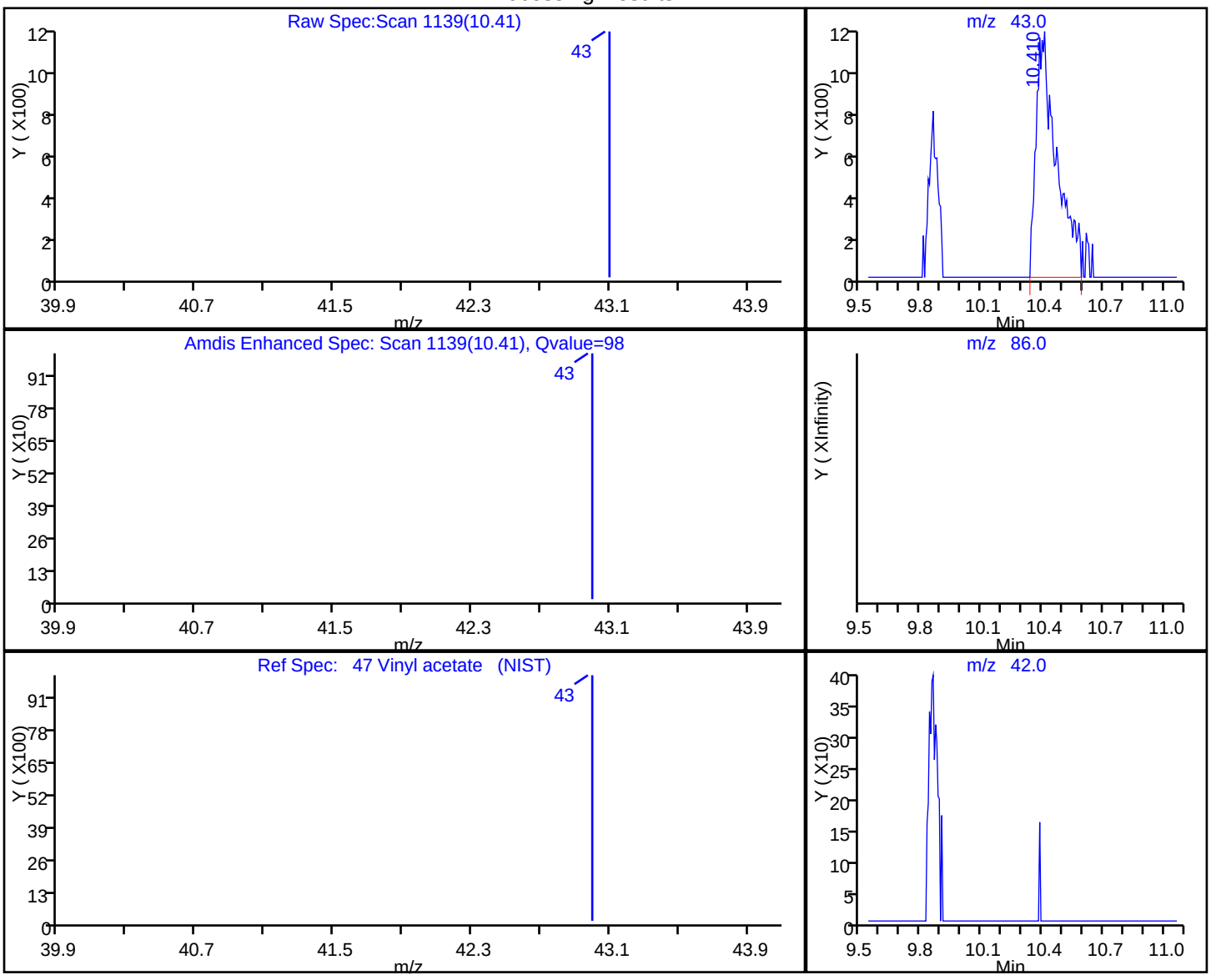
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031403.D
Injection Date: 14-Mar-2018 17:28:30 Instrument ID: ATMS7
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

47 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
10.41	43.00	7836	0.187643
10.31	86.00	0	
10.31	42.00	0	

Reviewer: phanthasena, 15-Mar-2018 14:53:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031404.D
Lims ID: IC 0.3ppbv
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Mar-2018 18:21:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2 0.3ppbv
Misc. Info.: 75 mL w/ 1.0 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:25 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 14:49:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.223	12.229	-0.006	97	38346	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.377	14.383	-0.006	95	165844	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.057	0.006	89	171027	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.434	-0.012	95	61296	4.00	3.92	
$ 5 Toluene-d8 (Surr)	100	17.784	17.784	0.000	98	114204	4.00	3.95	
$ 6 4-Bromofluorobenzene (Surr	95	23.606	23.606	0.000	90	122589	4.00	3.86	
11 Propene	41	3.834	3.816	0.018	99	3024	0.3000	0.3273	
12 Chlorodifluoromethane	51	3.846	3.834	0.012	92	5351	0.3000	0.3170	
13 Dichlorodifluoromethane	85	3.889	3.883	0.006	98	5164	0.3000	0.3341	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.138	4.138	0.000	90	4500	0.3000	0.3228	
16 Chloromethane	50	4.345	4.333	0.012	95	3393	0.3000	0.4095	M
17 Butane	43	4.564	4.558	0.006	82	4599	0.3000	0.3261	
18 Vinyl chloride	62	4.601	4.595	0.007	95	2293	0.3000	0.3142	
19 Butadiene	39	4.692	4.680	0.012	97	3423	0.3000	0.4639	
21 Bromomethane	94	5.513	5.489	0.024	93	2047	0.3000	0.3695	
22 Chloroethane	64	5.714	5.702	0.012	67	1224	0.3000	0.2911	
25 Vinyl bromide	106	6.225	6.201	0.024	97	1914	0.3000	0.2845	
26 Trichlorofluoromethane	101	6.365	6.359	0.006	46	6344	0.3000	0.2997	a
27 Pentane	43	6.438	6.426	0.012	94	6242	0.3000	0.2903	
29 Ethyl ether	74	7.101	7.034	0.067	36	975	0.3000	0.2415	
31 Acrolein	56	7.223	7.125	0.098	53	1037	0.3000	0.2241	
32 Acetone	43	7.369	7.283	0.086	98	6359	0.3000	0.3530	
33 1,1,2-Trichloro-1,2,2-trif	101	7.472	7.442	0.030	53	5271	0.3000	0.3030	a
34 1,1-Dichloroethene	61	7.697	7.673	0.024	92	4780	0.3000	0.3120	
36 2-Methyl-2-propanol	59	7.959	7.916	0.043	91	8359	0.3000	0.2962	
38 3-Chloro-1-propene	41	8.482	8.445	0.037	87	4986	0.3000	0.3038	
39 Methylene Chloride	49	8.652	8.628	0.024	94	4599	0.3000	0.3128	
40 Carbon disulfide	76	8.701	8.671	0.031	92	5236	0.3000	0.2909	
41 Acrylonitrile	53	8.908	8.792	0.116	42	2785	0.3000	0.2915	a
42 Methyl tert-butyl ether	73	9.248	9.212	0.036	92	7519	0.3000	0.2953	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
43 trans-1,2-Dichloroethene	61	9.437	9.394	0.043	87	3943	0.3000	0.2881	
44 Hexane	41	9.845	9.820	0.025	83	3897	0.3000	0.2797	
45 1,1-Dichloroethane	63	10.283	10.258	0.025	95	5484	0.3000	0.3001	
48 2-Butanone (MEK)	72	11.226	11.140	0.086	92	876	0.3000	0.1788	
51 cis-1,2-Dichloroethene	96	11.591	11.566	0.025	91	2732	0.3000	0.2966	
52 Ethyl acetate	43	11.670	11.591	0.079	91	10367	0.3000	0.3255	
53 Chloroform	83	11.944	11.925	0.019	94	5827	0.3000	0.2992	
54 Tetrahydrofuran	42	12.436	12.363	0.073	89	5330	0.3000	0.2970	
55 1,1,1-Trichloroethane	97	12.886	12.862	0.024	93	6335	0.3000	0.2959	
56 Cyclohexane	84	13.093	13.051	0.042	90	3396	0.3000	0.2816	
58 Isooctane	57	13.385	13.349	0.036	97	19732	0.3000	0.2946	
59 Carbon tetrachloride	117	13.483	13.446	0.037	77	6986	0.3000	0.2981	
61 1,2-Dichloroethane	62	13.610	13.592	0.018	92	4424	0.3000	0.2848	
63 Benzene	78	13.750	13.726	0.024	96	9388	0.3000	0.3018	
64 n-Heptane	43	13.921	13.890	0.031	87	8878	0.3000	0.2972	
65 Trichloroethene	130	15.162	15.113	0.049	93	4388	0.3000	0.2939	
66 1,2-Dichloropropane	76	15.454	15.417	0.037	79	1325	0.3000	0.2651	
67 Methyl methacrylate	69	15.654	15.575	0.079	87	3213	0.3000	0.2701	
68 Dichlorobromomethane	85	15.904	15.880	0.024	54	4700	0.3000	0.3035	
69 1,4-Dioxane	88	15.953	15.898	0.055	69	2676	0.3000	0.3127	
70 Dibromomethane	174	15.965	15.934	0.031	93	4138	0.3000	0.3006	
71 4-Methyl-2-pentanone (MIBK	43	16.786	16.725	0.061	94	13760	0.3000	0.2948	
72 cis-1,3-Dichloropropene	75	17.145	17.102	0.043	95	6494	0.3000	0.2882	
73 n-Octane	43	17.838	17.784	0.054	93	15531	0.3000	0.3353	
75 Toluene	91	17.966	17.918	0.048	92	13416	0.3000	0.3065	
76 trans-1,3-Dichloropropene	75	18.258	18.203	0.055	95	6084	0.3000	0.3044	
77 1,1,2-Trichloroethane	97	18.587	18.544	0.043	95	4592	0.3000	0.3345	
78 2-Hexanone	58	18.739	18.660	0.079	89	4821	0.3000	0.2317	
80 Tetrachloroethene	166	19.469	19.432	0.037	92	7162	0.3000	0.3223	
81 Chlorodibromomethane	129	19.694	19.651	0.043	94	8687	0.3000	0.3037	
82 Ethylene Dibromide	107	20.156	20.108	0.048	99	6977	0.3000	0.3080	
83 Chlorobenzene	112	21.142	21.099	0.043	93	12071	0.3000	0.3216	
84 n-Nonane	43	21.209	21.166	0.043	92	13537	0.3000	0.2909	
86 Ethylbenzene	91	21.318	21.276	0.042	98	17952	0.3000	0.3001	
87 m-Xylene & p-Xylene	91	21.507	21.458	0.049	98	28033	0.6000	0.6056	
88 o-Xylene	91	22.401	22.359	0.042	97	14430	0.3000	0.3131	
89 Styrene	104	22.438	22.389	0.049	95	9764	0.3000	0.2747	
90 Bromoform	173	22.991	22.955	0.036	96	8603	0.3000	0.3048	
92 Isopropylbenzene	120	23.174	23.143	0.031	97	5300	0.3000	0.3006	
93 1,1,2,2-Tetrachloroethane	83	23.375	23.344	0.031	97	9723	0.3000	0.3007	
97 1,2,3-Trichloropropane	110	23.679	23.642	0.037	78	3199	0.3000	0.3190	
99 N-Propylbenzene	91	24.019	23.983	0.036	99	22127	0.3000	0.2912	
101 n-Decane	57	24.135	24.001	0.134	44	12579	0.3000	0.2806	
102 4-Ethyltoluene	120	24.257	24.220	0.037	98	5684	0.3000	0.2930	
103 2-Chlorotoluene	126	24.330	24.293	0.037	98	5297	0.3000	0.3249	
104 1,3,5-Trimethylbenzene	120	24.360	24.317	0.043	91	8730	0.3000	0.3059	
105 Alpha Methyl Styrene	118	24.938	24.895	0.043	86	5796	0.3000	0.2162	
106 tert-Butylbenzene	91	25.072	25.047	0.025	93	13187	0.3000	0.3373	
107 1,2,4-Trimethylbenzene	120	25.145	25.114	0.031	95	5885	0.3000	0.2271	
108 sec-Butylbenzene	105	25.534	25.498	0.036	98	25697	0.3000	0.3118	
109 4-Isopropyltoluene	119	25.820	25.771	0.049	96	17298	0.3000	0.2457	
110 1,3-Dichlorobenzene	146	25.911	25.875	0.036	96	7983	0.3000	0.2282	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
111 1,4-Dichlorobenzene	146	26.118	26.076	0.042	90	9974	0.3000	0.2820	M
113 Benzyl chloride	91	26.289	26.246	0.043	94	5114	0.2400	0.0874	
114 Undecane	57	26.629	26.447	0.182	22	9712	0.3000	0.1965	M
115 n-Butylbenzene	92	26.733	26.599	0.134	96	7012	0.3000	0.2170	M
116 1,2-Dichlorobenzene	146	26.848	26.806	0.042	90	9905	0.3000	0.2982	M
119 1,2,4-Trichlorobenzene	180	30.237	30.127	0.110	85	4083	0.3000	0.1895	M
120 Hexachlorobutadiene	225	30.529	30.486	0.043	93	6278	0.3000	0.2921	
122 1,2,3-Trichlorobenzene	180	31.168	31.088	0.080	18	5063	0.3000	0.2709	a
A 139 C6 Range	1	9.881	(9.623-10.066)		0	26778	0.3000	0.3506	
A 145 Nonmethane Organic Compoun	1	16.257	(3.862-28.679)		0	2461904	0.3000	32.2	
A 146 Total VOC as Hexane	1	16.257	(3.862-28.679)		0	2461904	0.3000	32.2	
A 144 Total VOCs as Tetrachloroe	1	16.558	(3.667-29.217)		0	2743945	0.3000	0	
A 147 TVOC as Toluene	1	16.558	(3.667-29.217)		0	2743945	0.3000	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	22354	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.691)		0	59497	NC	NC	
S 150 Xylenes, Total	91				0		0.9000	0.9186	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

VACORPIC1.0_00145	Amount Added: 75.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

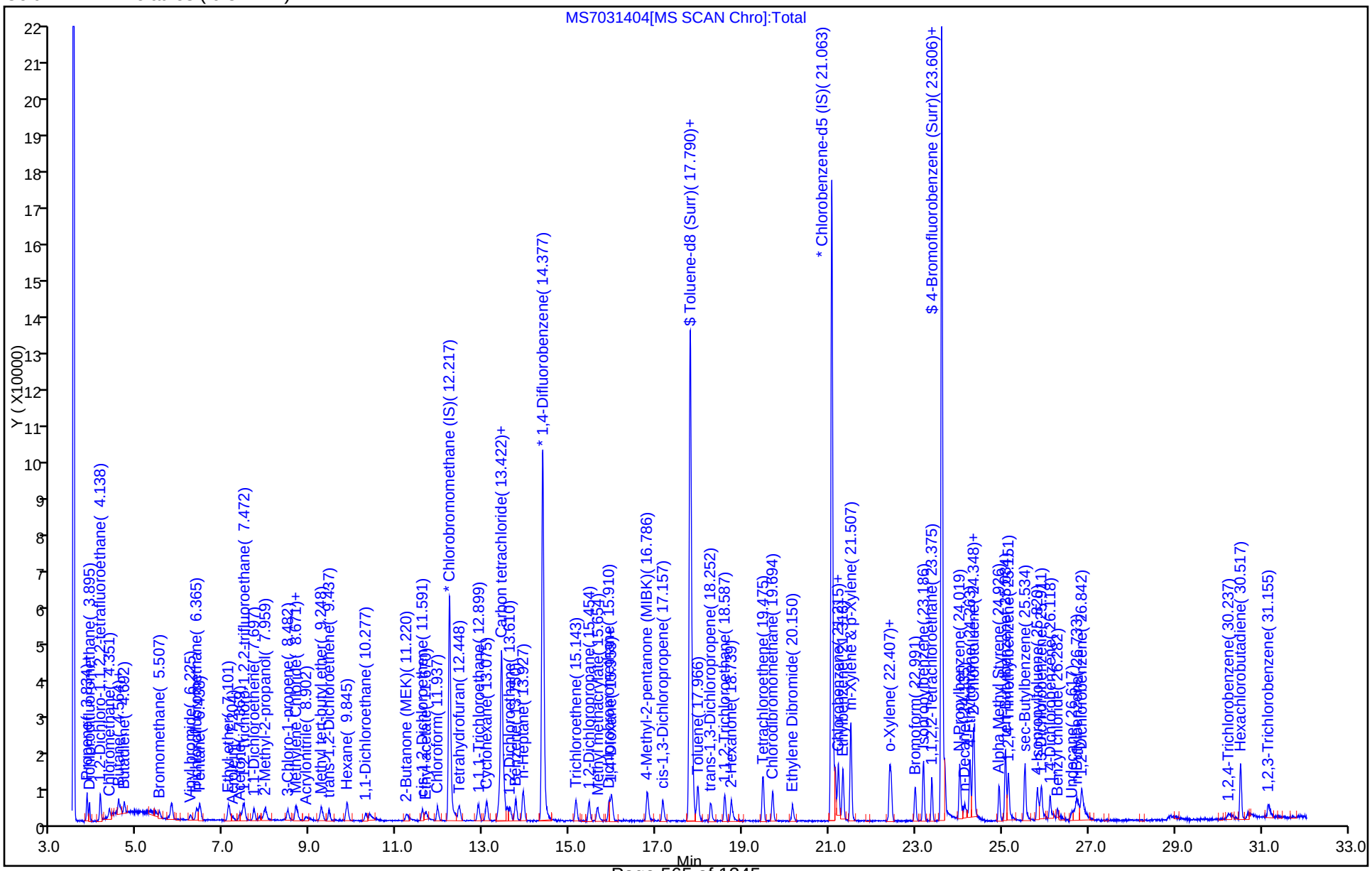
Report Date: 15-Mar-2018 11:13:27 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031404.D

Injection Date:	14-Mar-2018 18:21:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 0.3ppbv			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:13:27 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031404.D

Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7

Lims ID: IC 0.3ppbv

Client ID:

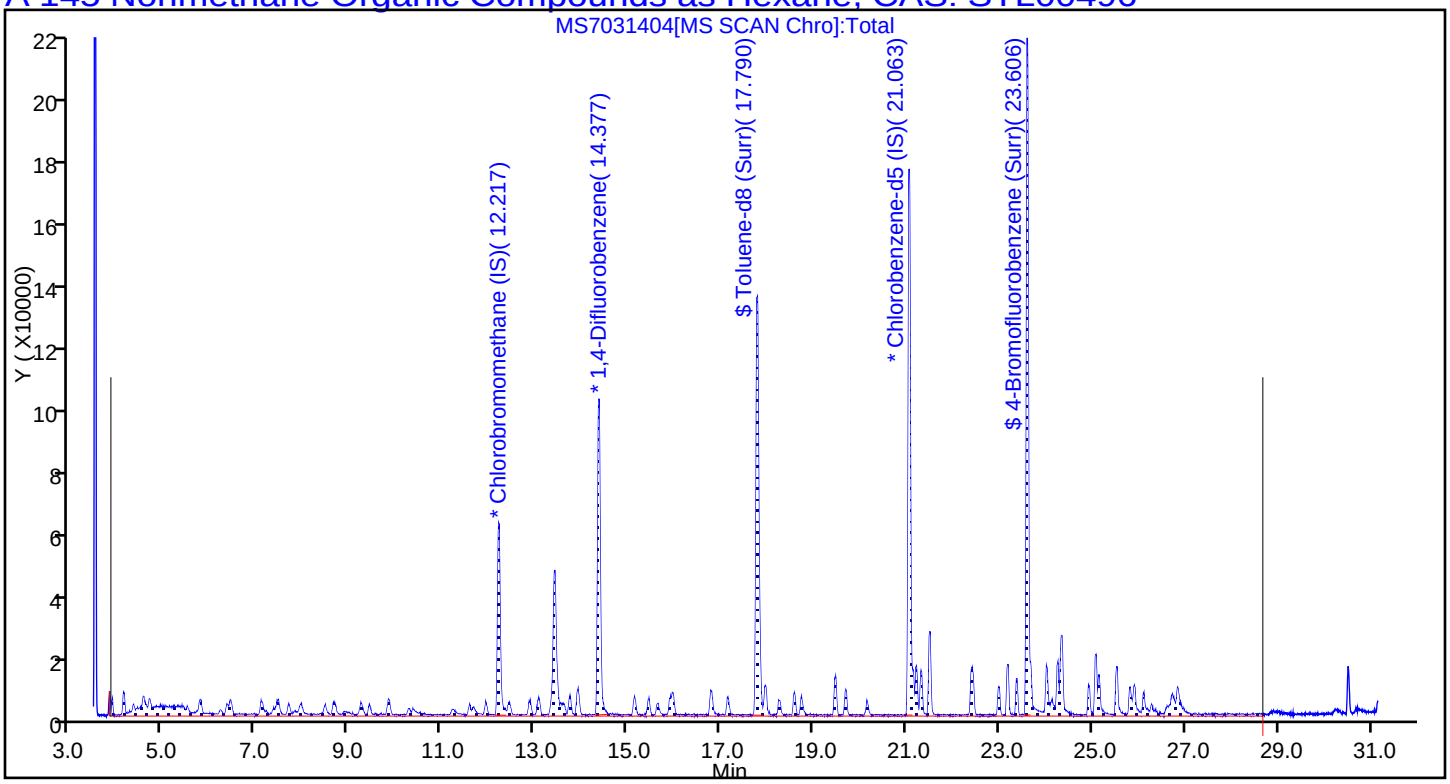
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

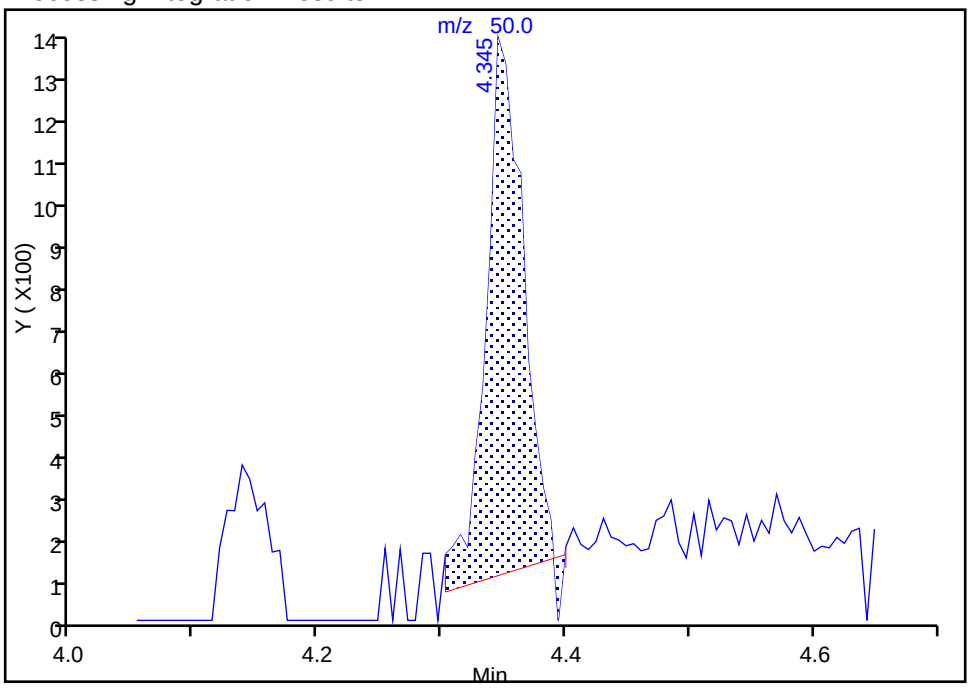
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

16 Chloromethane, CAS: 74-87-3

Signal: 1

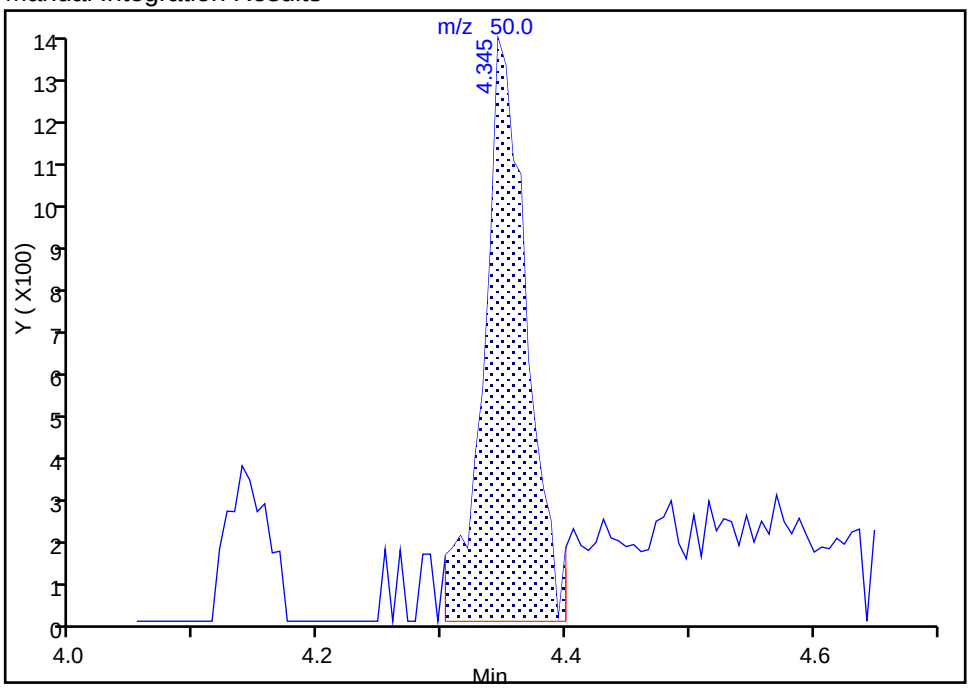
Processing Integration Results

RT: 4.35
Area: 2692
Amount: 0.311248
Amount Units: ppb v/v



Manual Integration Results

RT: 4.35
Area: 3393
Amount: 0.409455
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:37:37
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

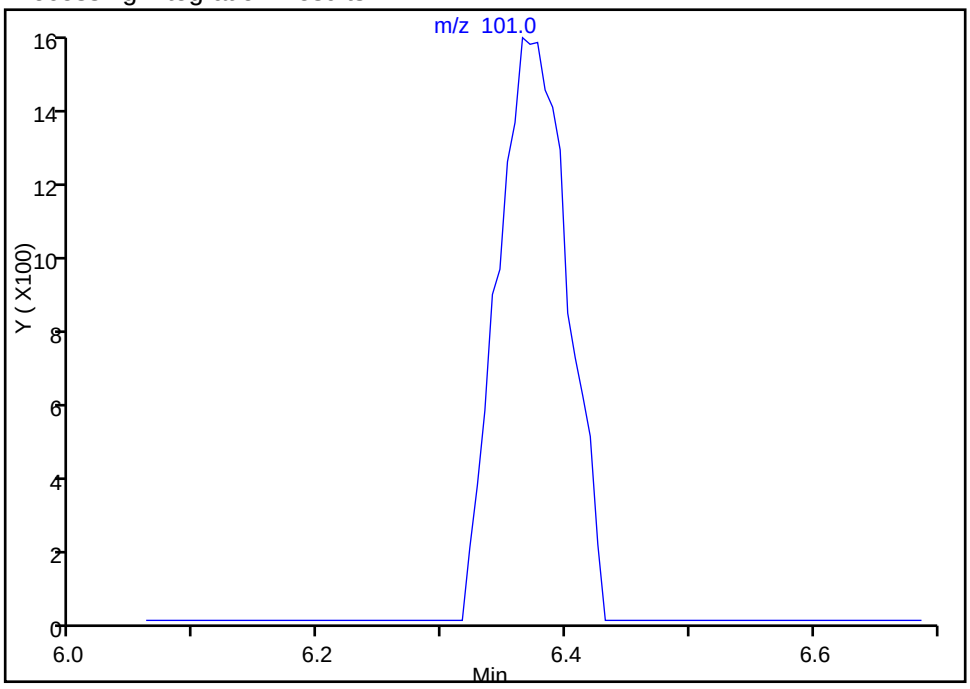
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

26 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

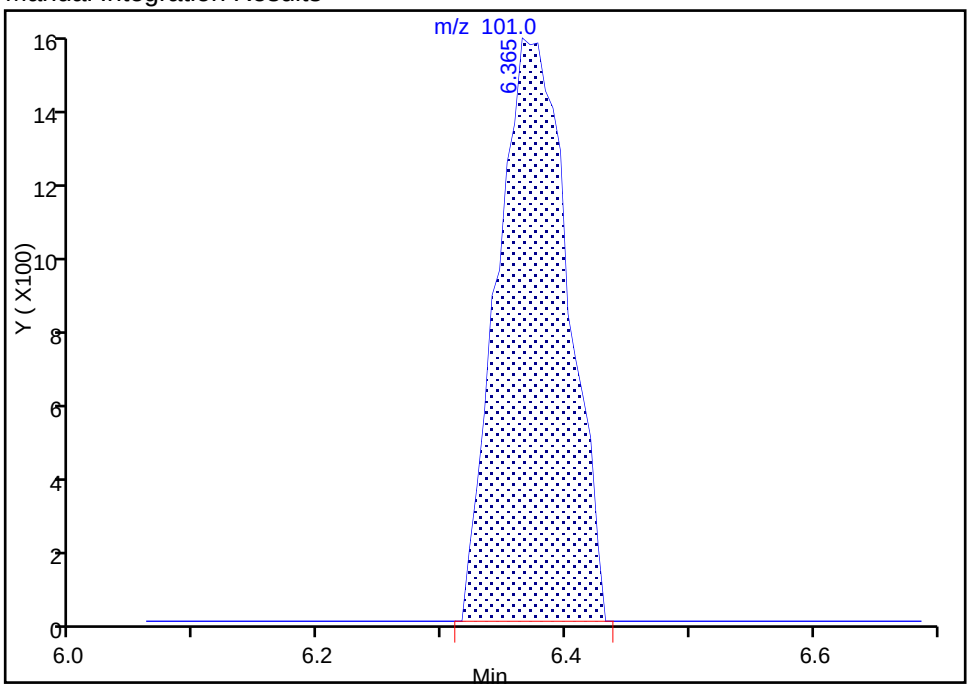
Not Detected
Expected RT: 6.36

Processing Integration Results



Manual Integration Results

RT: 6.36
Area: 6344
Amount: 0.299708
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:38:10
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

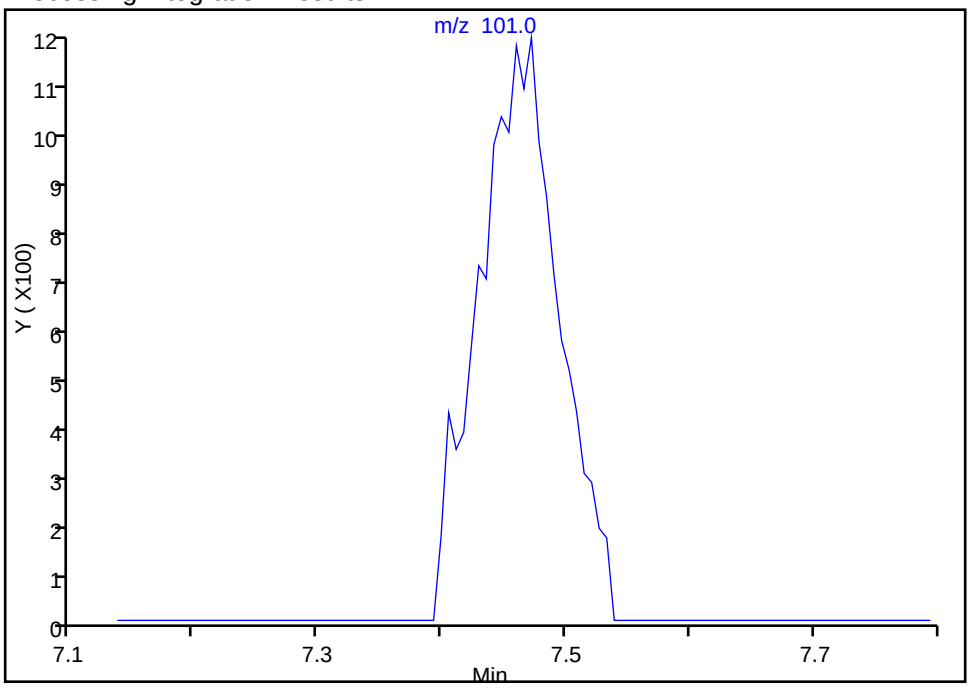
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

33 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

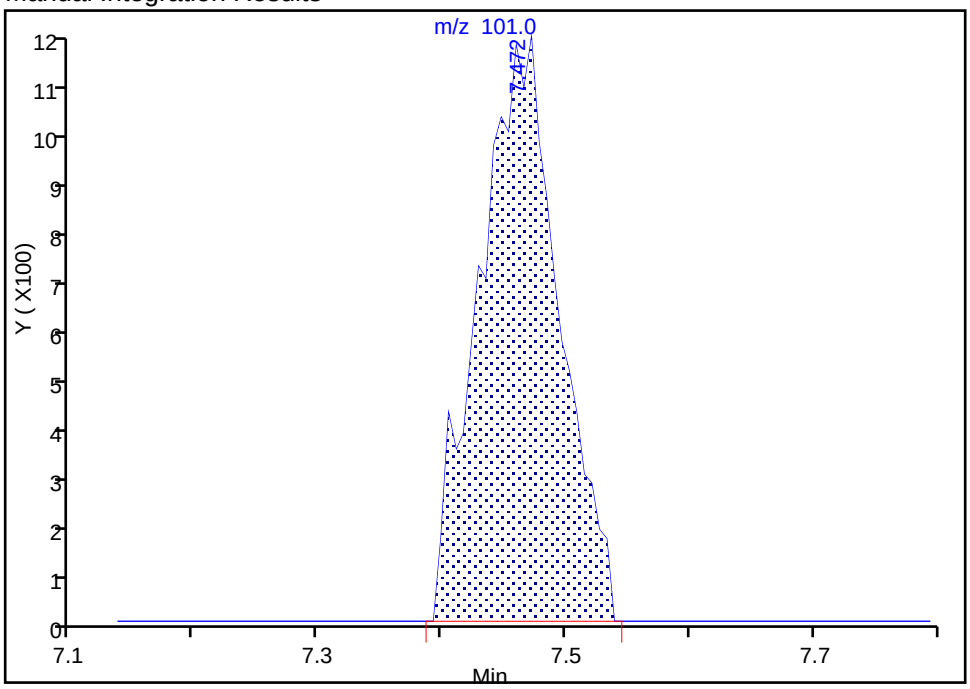
Not Detected
Expected RT: 7.44

Processing Integration Results



Manual Integration Results

RT: 7.47
Area: 5271
Amount: 0.303026
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:38:26
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

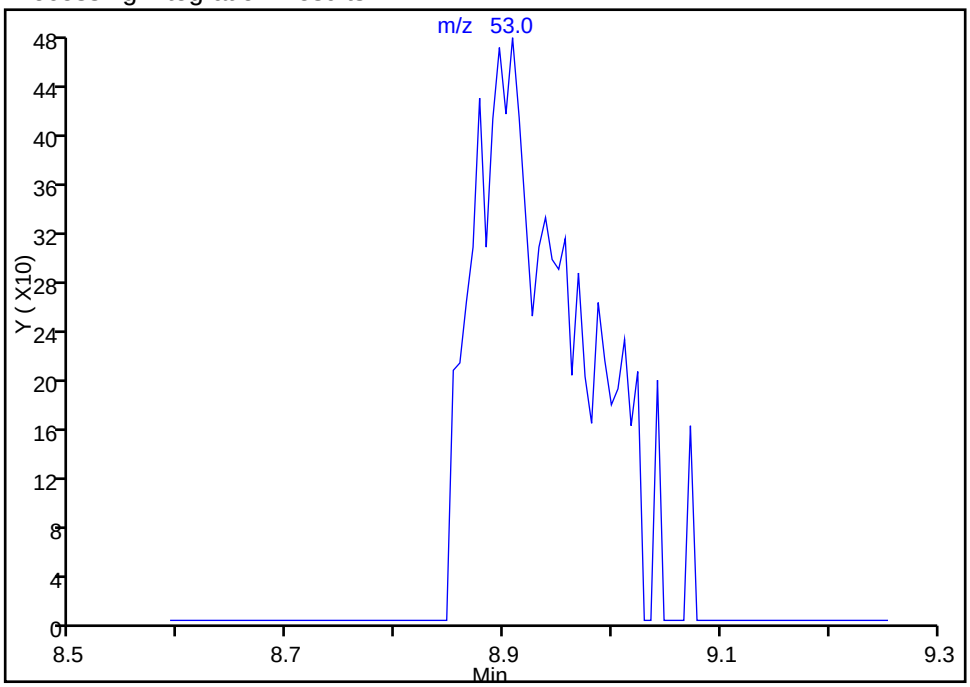
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

41 Acrylonitrile, CAS: 107-13-1

Signal: 1

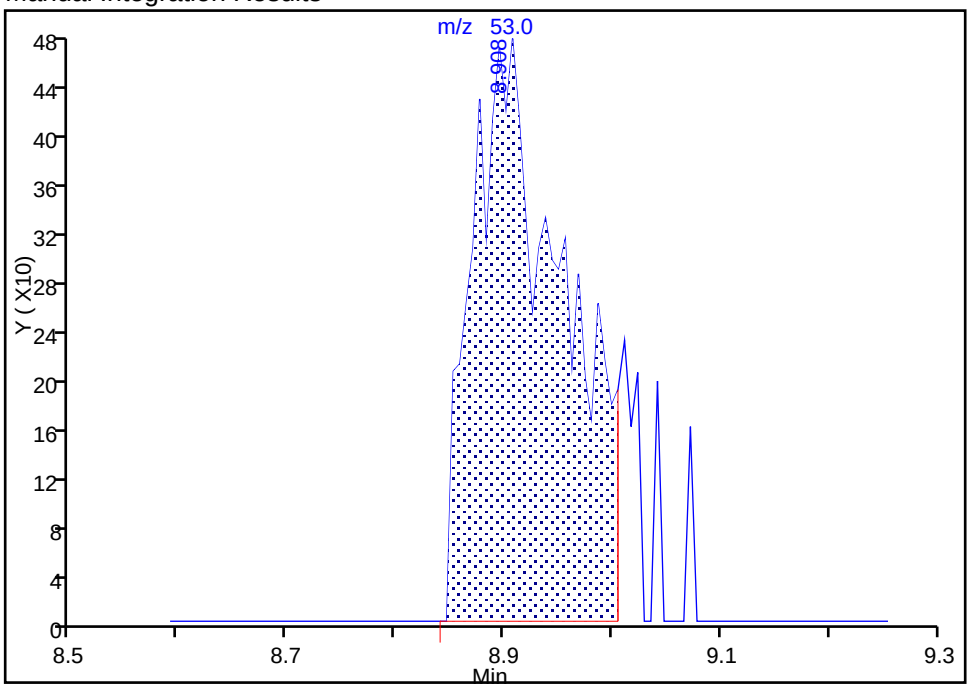
Not Detected
Expected RT: 8.79

Processing Integration Results



Manual Integration Results

RT: 8.91
Area: 2785
Amount: 0.291516
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:38:41
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

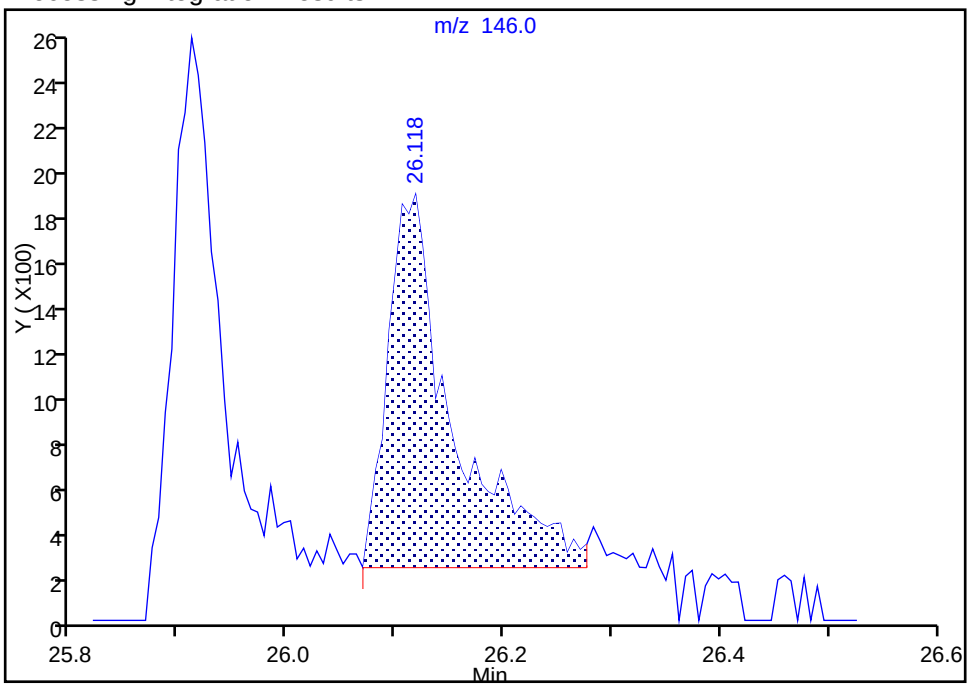
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

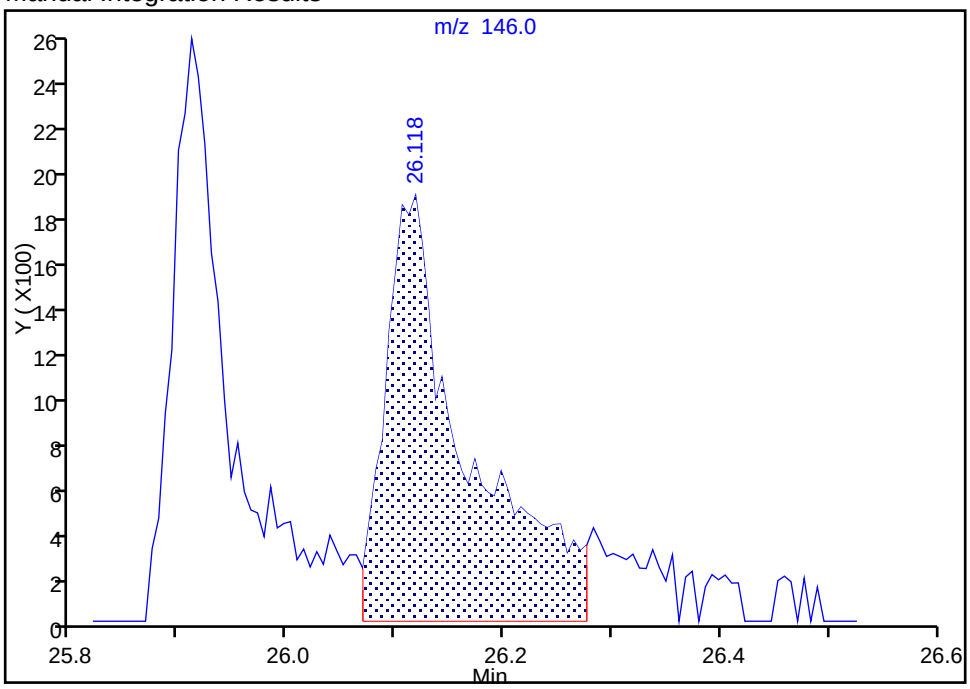
Processing Integration Results

RT: 26.12
Area: 6972
Amount: 0.194557
Amount Units: ppb v/v



Manual Integration Results

RT: 26.12
Area: 9974
Amount: 0.282016
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:41:21
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

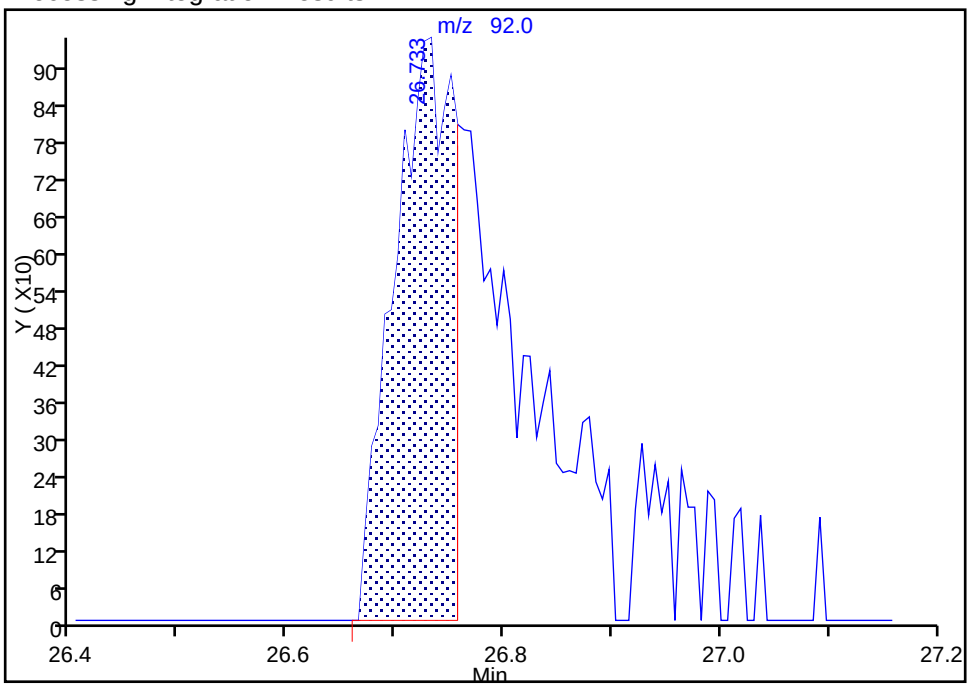
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

115 n-Butylbenzene, CAS: 104-51-8

Signal: 1

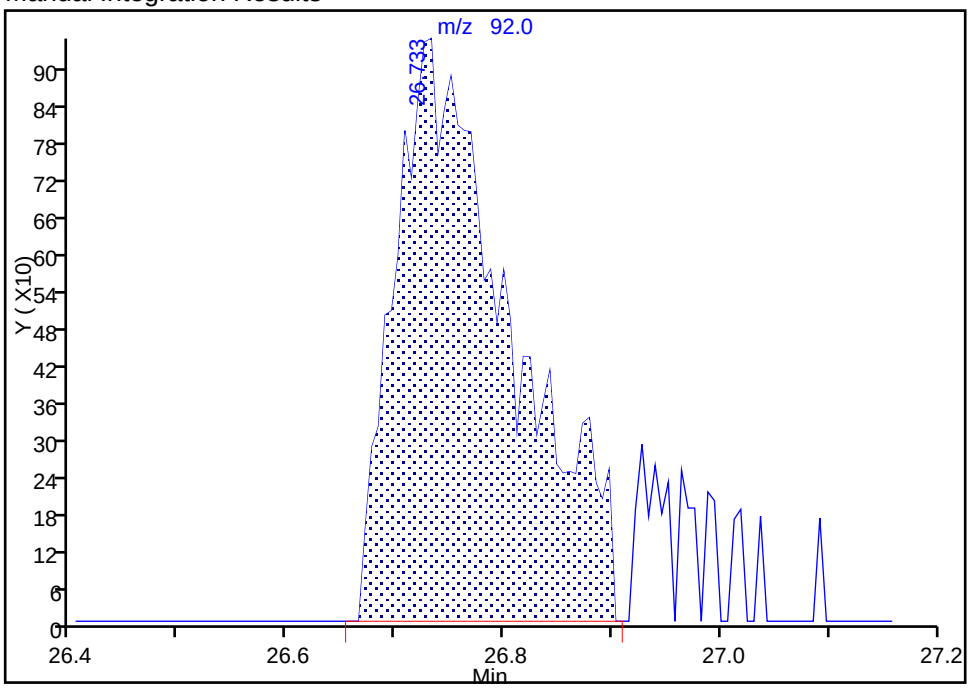
Processing Integration Results

RT: 26.73
Area: 3582
Amount: 0.254078
Amount Units: ppb v/v



Manual Integration Results

RT: 26.73
Area: 7012
Amount: 0.217037
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:48:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

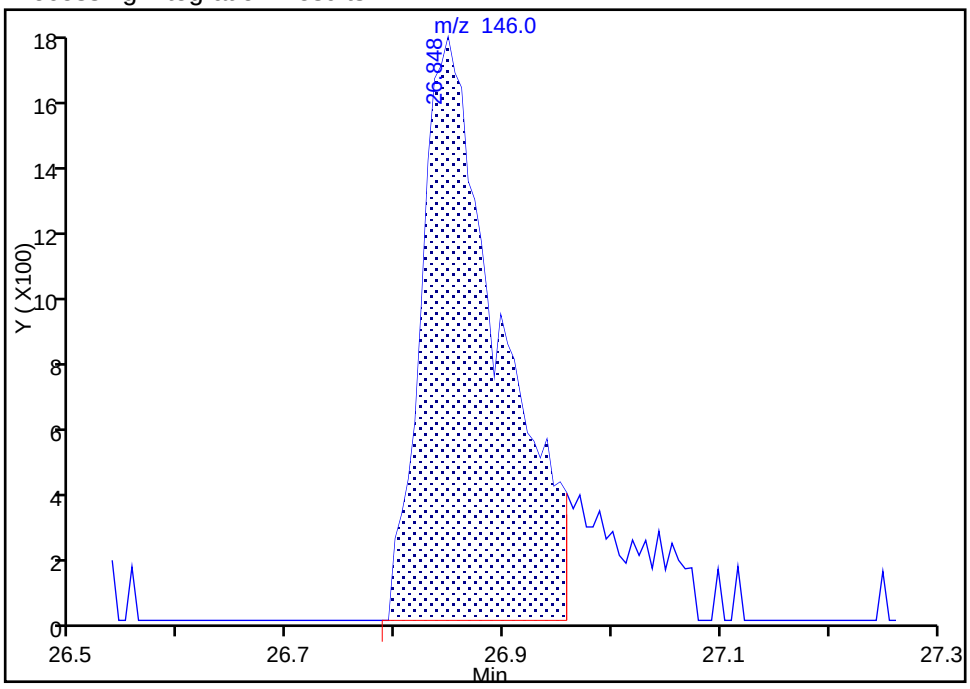
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Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

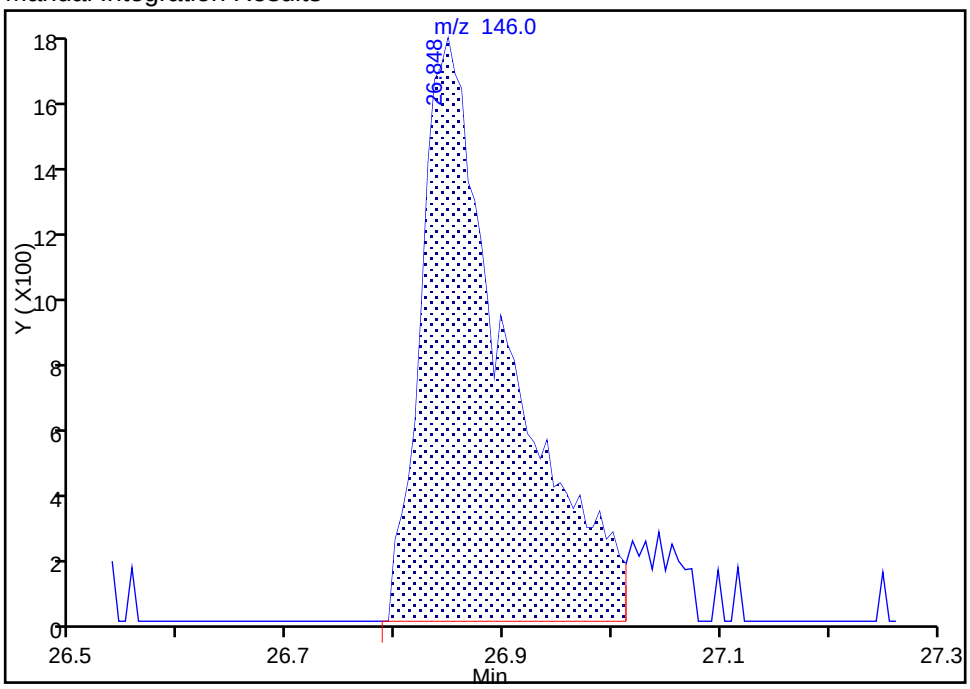
Processing Integration Results

RT: 26.85
Area: 8982
Amount: 0.258118
Amount Units: ppb v/v



Manual Integration Results

RT: 26.85
Area: 9905
Amount: 0.298243
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:48:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

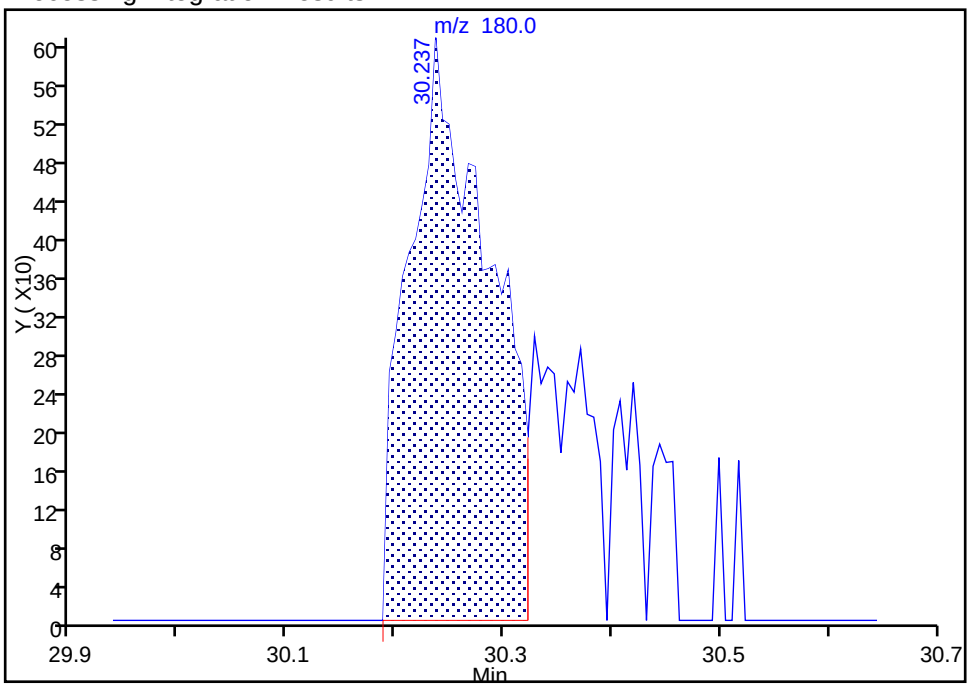
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031404.D
Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

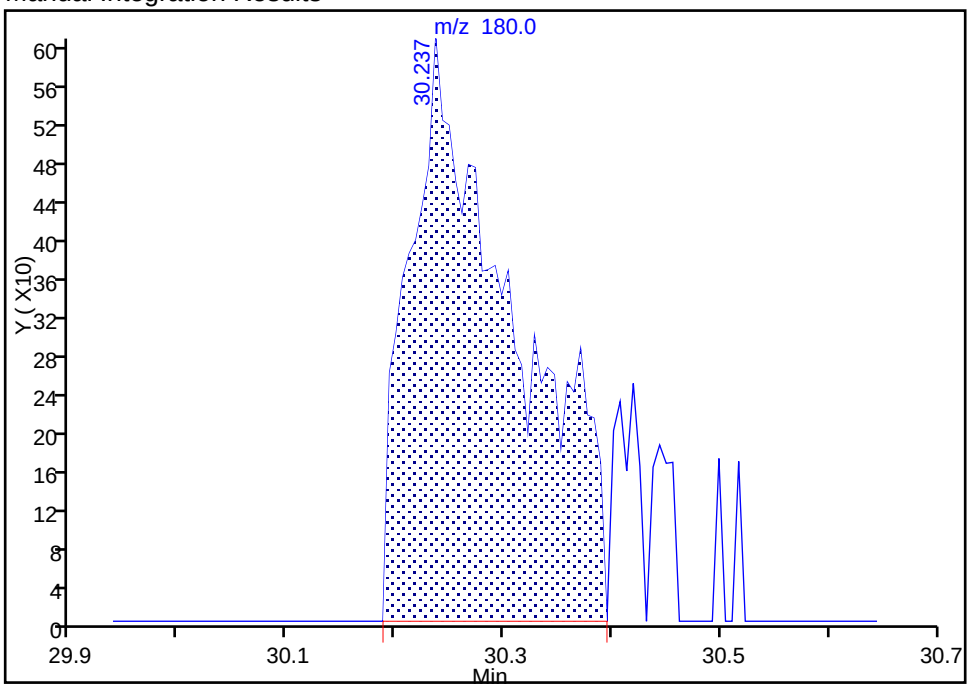
Processing Integration Results

RT: 30.24
Area: 3138
Amount: 0.187418
Amount Units: ppb v/v



Manual Integration Results

RT: 30.24
Area: 4083
Amount: 0.189531
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:49:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

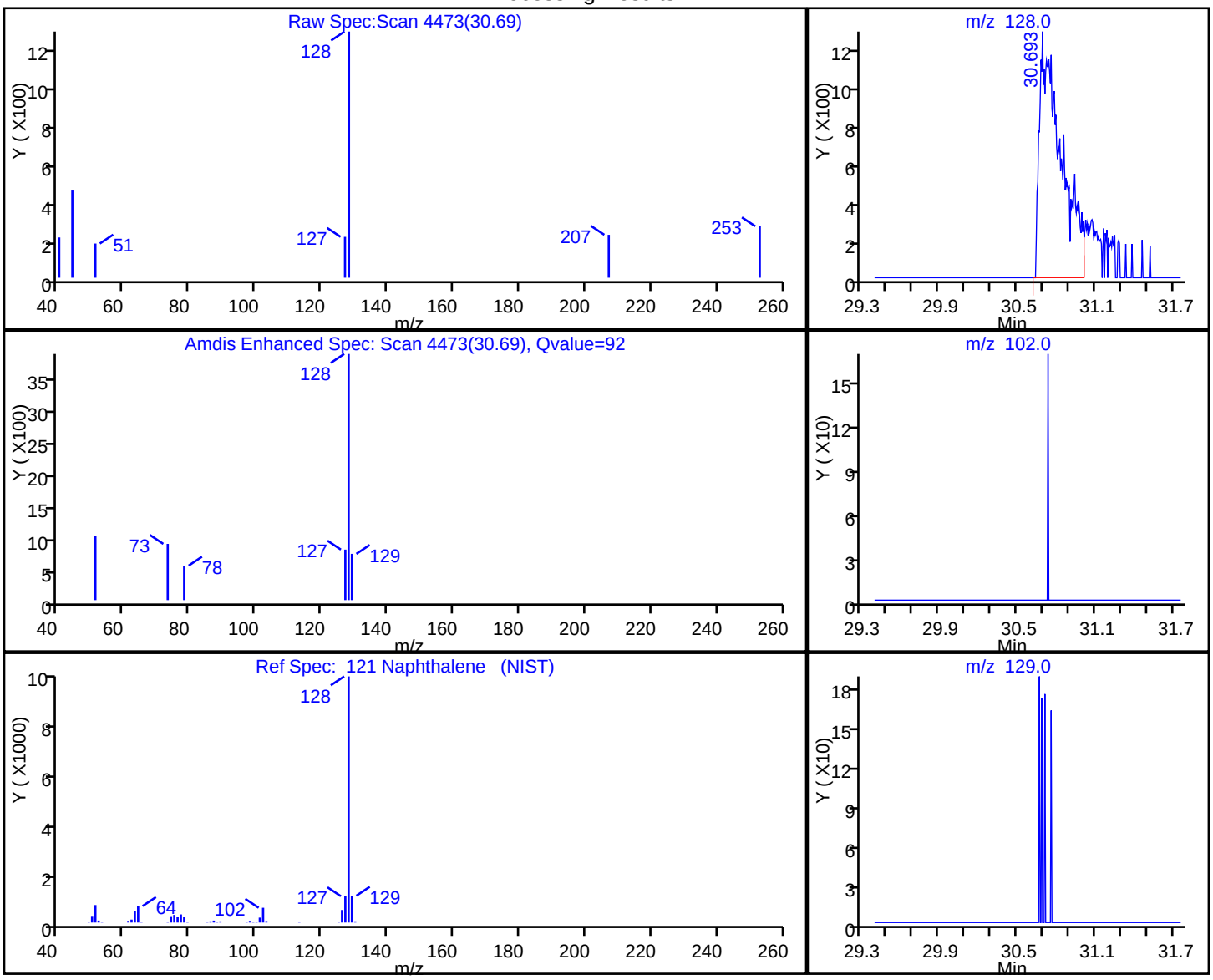
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031404.D
Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

121 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
30.69	128.00	13956	0.634156
30.69	102.00	0	
30.69	129.00	0	

Reviewer: phanthasena, 15-Mar-2018 14:49:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

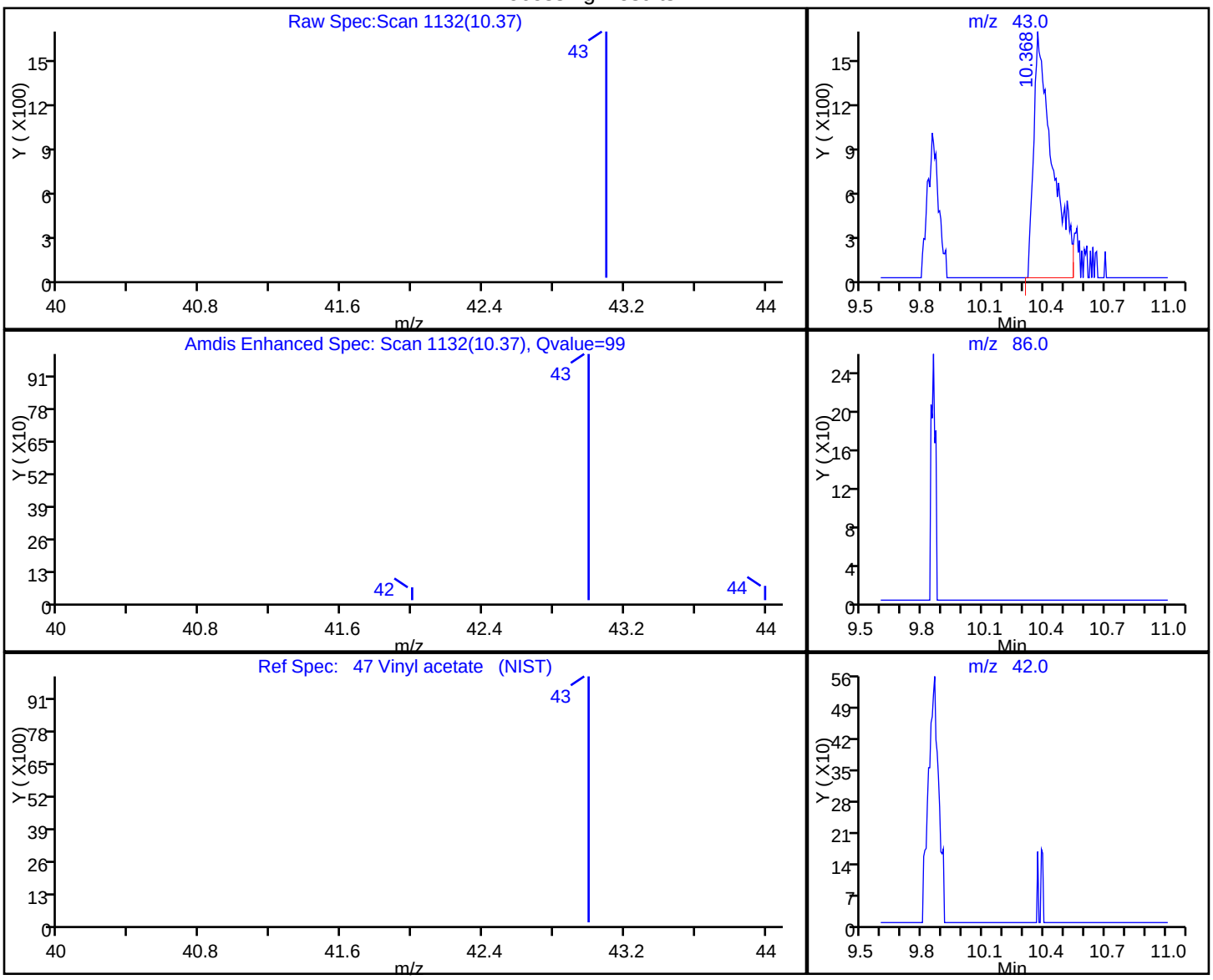
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031404.D
Injection Date: 14-Mar-2018 18:21:30 Instrument ID: ATMS7
Lims ID: IC 0.3ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

47 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
10.37	43.00	10540	0.285021
10.31	86.00	0	
10.31	42.00	0	

Reviewer: phanthasena, 15-Mar-2018 14:49:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031405.D
Lims ID: IC 0.4ppbv
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Mar-2018 19:13:30 ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3 0.4ppbv
Misc. Info.: 100 mL w/ 1.0 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:31 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 14:34:59

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.217	12.229	-0.012	96	38583	4.00	4.00	
*	2 1,4-Difluorobenzene	114	14.371	14.383	-0.012	95	163452	4.00	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.051	21.057	-0.006	89	168683	4.00	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.434	-0.012	95	60770	4.00	3.94	
$	5 Toluene-d8 (Surr)	100	17.778	17.784	-0.006	98	109445	4.00	3.84	
$	6 4-Bromofluorobenzene (Surr	95	23.606	23.606	0.000	90	123116	4.00	3.93	
	11 Propene	41	3.828	3.816	0.012	98	4024	0.4000	0.4329	
	12 Chlorodifluoromethane	51	3.840	3.834	0.006	92	6915	0.4000	0.4072	
	13 Dichlorodifluoromethane	85	3.889	3.883	0.006	98	6052	0.4000	0.3891	
	14 1,2-Dichloro-1,1,2,2-tetra	135	4.144	4.138	0.006	89	5844	0.4000	0.4166	
	16 Chloromethane	50	4.345	4.333	0.012	98	4321	0.4000	0.5182	
	17 Butane	43	4.558	4.558	0.000	84	5687	0.4000	0.4007	
	18 Vinyl chloride	62	4.601	4.595	0.007	96	2788	0.4000	0.3797	
	19 Butadiene	39	4.692	4.680	0.012	96	4045	0.4000	0.5449	
	21 Bromomethane	94	5.507	5.489	0.018	96	2420	0.4000	0.4341	
	22 Chloroethane	64	5.714	5.702	0.012	72	1640	0.4000	0.3877	
	25 Vinyl bromide	106	6.225	6.201	0.024	97	2729	0.4000	0.4031	
	26 Trichlorofluoromethane	101	6.365	6.359	0.006	97	8641	0.4000	0.4057	
	27 Pentane	43	6.438	6.426	0.012	94	8436	0.4000	0.3899	
	29 Ethyl ether	74	7.070	7.034	0.036	31	1325	0.4000	0.3261	
	31 Acrolein	56	7.204	7.125	0.079	7	1780	0.4000	0.3822	
	32 Acetone	43	7.356	7.283	0.073	91	8654	0.4000	0.4775	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.448	7.442	0.006	91	6835	0.4000	0.3905	
	34 1,1-Dichloroethene	61	7.691	7.673	0.018	90	6040	0.4000	0.3918	
	35 Acetonitrile	41	7.807	7.721	0.086	97	3051	0.4000	0.3161	
	36 2-Methyl-2-propanol	59	7.947	7.916	0.031	39	11728	0.4000	0.4130	
	38 3-Chloro-1-propene	41	8.476	8.445	0.031	91	6394	0.4000	0.3872	
	39 Methylene Chloride	49	8.652	8.628	0.024	92	6223	0.4000	0.4207	
	40 Carbon disulfide	76	8.695	8.671	0.025	97	7243	0.4000	0.4000	
	41 Acrylonitrile	53	8.865	8.792	0.073	72	3813	0.4000	0.3967	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.236	9.212	0.024	91	9894	0.4000	0.3862	
43 trans-1,2-Dichloroethene	61	9.419	9.394	0.025	94	5451	0.4000	0.3959	
44 Hexane	41	9.845	9.820	0.025	63	5443	0.4000	0.3883	a
45 1,1-Dichloroethane	63	10.277	10.258	0.019	98	7103	0.4000	0.3863	
48 2-Butanone (MEK)	72	11.213	11.140	0.073	93	1356	0.4000	0.2750	
51 cis-1,2-Dichloroethene	96	11.584	11.566	0.018	94	3488	0.4000	0.3763	
52 Ethyl acetate	43	11.657	11.591	0.066	92	13659	0.4000	0.4262	
53 Chloroform	83	11.931	11.925	0.006	93	7317	0.4000	0.3734	
54 Tetrahydrofuran	42	12.424	12.363	0.061	93	7434	0.4000	0.4118	
55 1,1,1-Trichloroethane	97	12.886	12.862	0.024	93	8611	0.4000	0.3997	
56 Cyclohexane	84	13.075	13.051	0.024	90	4583	0.4000	0.3856	
58 Isooctane	57	13.379	13.349	0.030	97	25928	0.4000	0.3928	
59 Carbon tetrachloride	117	13.470	13.446	0.024	96	9151	0.4000	0.3963	
60 n-Butanol	56	13.562	13.464	0.098	72	3820	0.4000	0.2833	
61 1,2-Dichloroethane	62	13.610	13.592	0.018	95	6182	0.4000	0.4038	
63 Benzene	78	13.750	13.726	0.024	96	12338	0.4000	0.4025	
64 n-Heptane	43	13.921	13.890	0.031	88	11911	0.4000	0.4045	
65 Trichloroethene	130	15.137	15.113	0.024	95	6023	0.4000	0.4093	
66 1,2-Dichloropropane	76	15.435	15.417	0.018	84	1826	0.4000	0.3706	
67 Methyl methacrylate	69	15.630	15.575	0.055	88	3900	0.4000	0.3326	
68 Dichlorobromomethane	85	15.892	15.880	0.012	96	6154	0.4000	0.4032	
69 1,4-Dioxane	88	15.940	15.898	0.042	66	3516	0.4000	0.4169	
70 Dibromomethane	174	15.959	15.934	0.025	93	5761	0.4000	0.4246	
71 4-Methyl-2-pentanone (MIBK	43	16.786	16.725	0.061	97	18770	0.4000	0.4080	
72 cis-1,3-Dichloropropene	75	17.145	17.102	0.043	95	9034	0.4000	0.4068	
73 n-Octane	43	17.820	17.784	0.036	93	20564	0.4000	0.4502	
75 Toluene	91	17.954	17.918	0.036	92	17586	0.4000	0.4077	
76 trans-1,3-Dichloropropene	75	18.246	18.203	0.043	96	8050	0.4000	0.4083	
77 1,1,2-Trichloroethane	97	18.575	18.544	0.031	96	5958	0.4000	0.4400	
78 2-Hexanone	58	18.727	18.660	0.067	91	6834	0.4000	0.3330	
80 Tetrachloroethene	166	19.451	19.432	0.019	96	9746	0.4000	0.4446	
81 Chlorodibromomethane	129	19.670	19.651	0.019	95	11717	0.4000	0.4153	
82 Ethylene Dibromide	107	20.144	20.108	0.036	99	9260	0.4000	0.4144	
83 Chlorobenzene	112	21.136	21.099	0.037	93	15762	0.4000	0.4257	
84 n-Nonane	43	21.203	21.166	0.037	93	17291	0.4000	0.3767	
86 Ethylbenzene	91	21.312	21.276	0.036	98	24571	0.4000	0.4164	
87 m-Xylene & p-Xylene	91	21.495	21.458	0.037	97	37730	0.8000	0.8264	
88 o-Xylene	91	22.395	22.359	0.036	98	18258	0.4000	0.4016	
89 Styrene	104	22.432	22.389	0.043	97	13294	0.4000	0.3793	
90 Bromoform	173	22.985	22.955	0.030	96	10947	0.4000	0.3933	
92 Isopropylbenzene	120	23.180	23.143	0.037	97	6965	0.4000	0.4005	
93 1,1,2,2-Tetrachloroethane	83	23.374	23.344	0.030	98	13544	0.4000	0.4247	
97 1,2,3-Trichloropropane	110	23.673	23.642	0.031	85	4284	0.4000	0.4332	
99 N-Propylbenzene	91	24.025	23.983	0.042	99	30323	0.4000	0.4046	
101 n-Decane	57	24.050	24.001	0.049	85	16429	0.4000	0.3716	M
102 4-Ethyltoluene	120	24.263	24.220	0.043	98	7826	0.4000	0.4090	
103 2-Chlorotoluene	126	24.336	24.293	0.043	98	6805	0.4000	0.4232	
104 1,3,5-Trimethylbenzene	120	24.354	24.317	0.037	91	12506	0.4000	0.4443	M
105 Alpha Methyl Styrene	118	24.938	24.895	0.043	84	8396	0.4000	0.3176	
106 tert-Butylbenzene	91	25.084	25.047	0.037	92	16305	0.4000	0.4228	
107 1,2,4-Trimethylbenzene	120	25.151	25.114	0.037	96	8741	0.4000	0.3421	
108 sec-Butylbenzene	105	25.540	25.498	0.042	98	33762	0.4000	0.4154	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
109 4-Isopropyltoluene	119	25.820	25.771	0.049	97	26030	0.4000	0.3749	
110 1,3-Dichlorobenzene	146	25.917	25.875	0.042	96	12306	0.4000	0.3567	
111 1,4-Dichlorobenzene	146	26.112	26.076	0.036	90	16408	0.4000	0.4704	M
113 Benzyl chloride	91	26.282	26.246	0.036	97	14524	0.3200	0.2517	M
114 Undecane	57	26.605	26.447	0.158	91	14448	0.4000	0.2963	M
115 n-Butylbenzene	92	26.720	26.599	0.121	1	11100	0.4000	0.3483	Ma
116 1,2-Dichlorobenzene	146	26.842	26.806	0.036	94	12567	0.4000	0.3837	
119 1,2,4-Trichlorobenzene	180	30.249	30.127	0.122	4	6610	0.4000	0.3111	M
120 Hexachlorobutadiene	225	30.517	30.486	0.031	94	8261	0.4000	0.3896	
121 Naphthalene	128	30.675	30.577	0.098	93	22577	0.4000	0.3644	
122 1,2,3-Trichlorobenzene	180	31.149	31.088	0.061	93	6728	0.4000	0.3650	M
A 139 C6 Range	1	9.881	(9.623-10.066)		0	31429	0.4000	0.4089	
A 146 Total VOC as Hexane	1	16.257	(3.862-28.679)		0	3472525	0.4000	45.2	
A 145 Nonmethane Organic Compoun	1	16.257	(3.862-28.679)		0	3472525	0.4000	45.2	
A 147 TVOC as Toluene	1	16.536	(3.667-29.217)		0	3541995	0.4000	0	
A 144 Total VOCs as Tetrachloroe	1	16.558	(3.667-29.217)		0	3543893	0.4000	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	29280	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.691)		0	85782	NC	NC	
S 150 Xylenes, Total	91				0		1.20	1.23	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC1.0_00145	Amount Added: 100.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

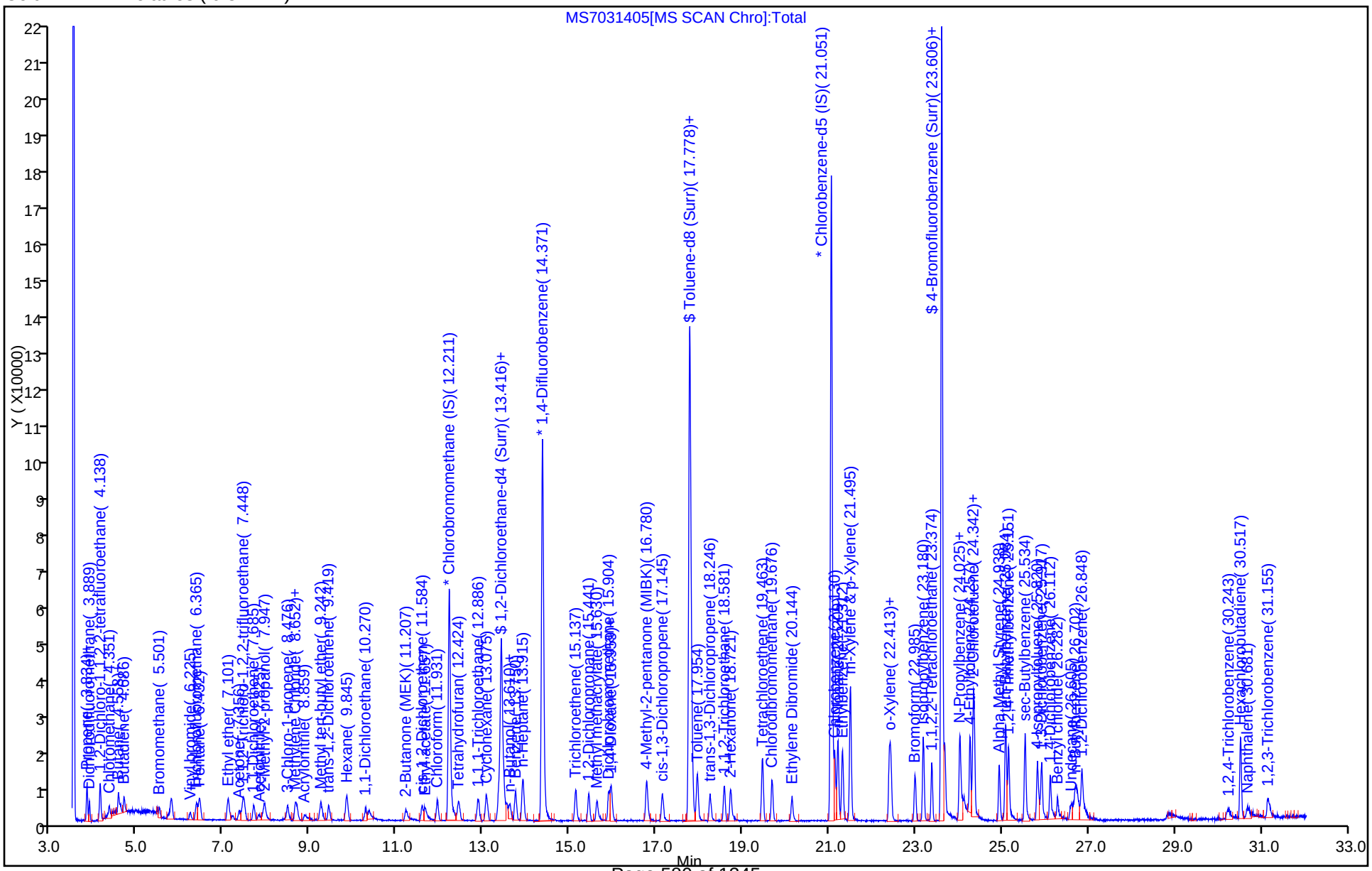
Report Date: 15-Mar-2018 11:13:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031405.D

Injection Date:	14-Mar-2018 19:13:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 0.4ppbv			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:13:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031405.D

Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7

Lims ID: IC 0.4ppbv

Client ID:

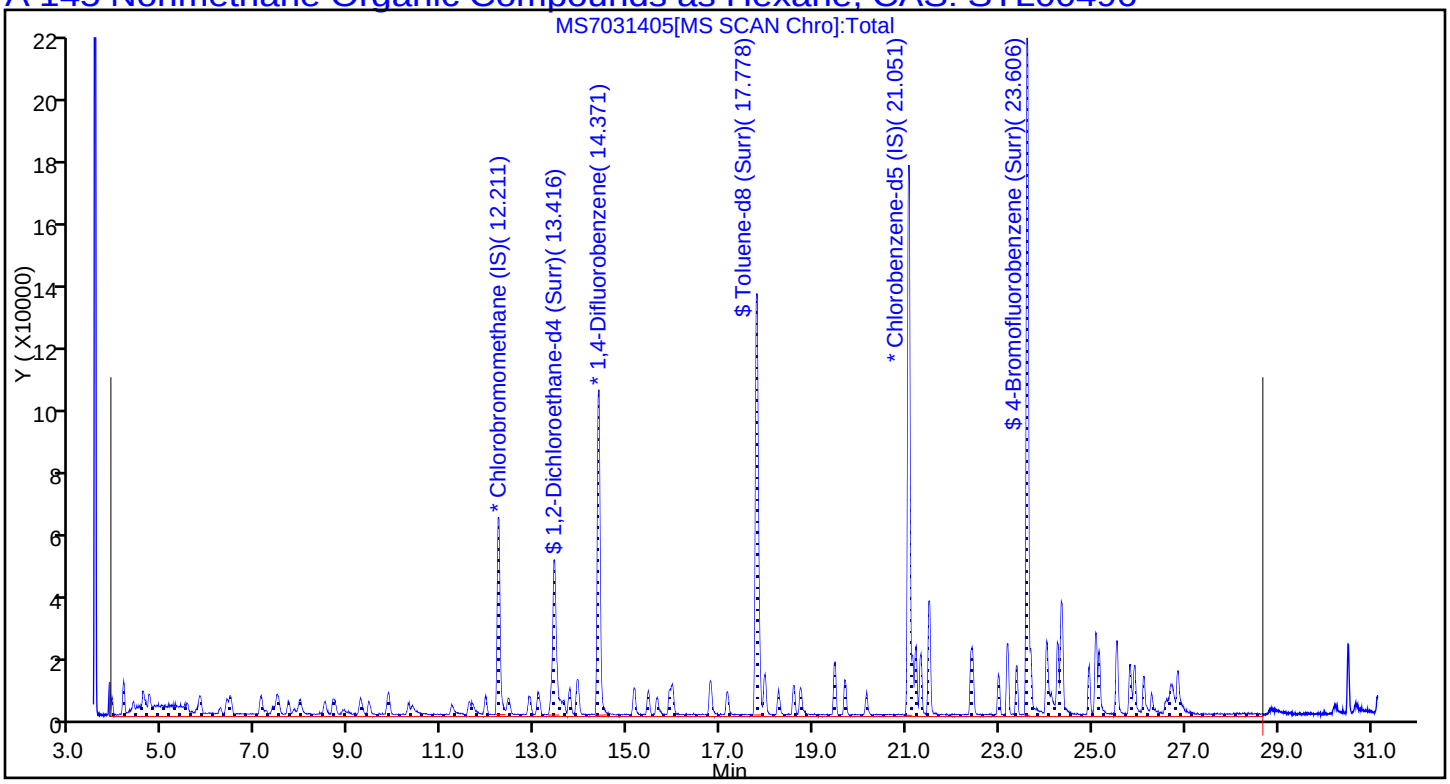
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

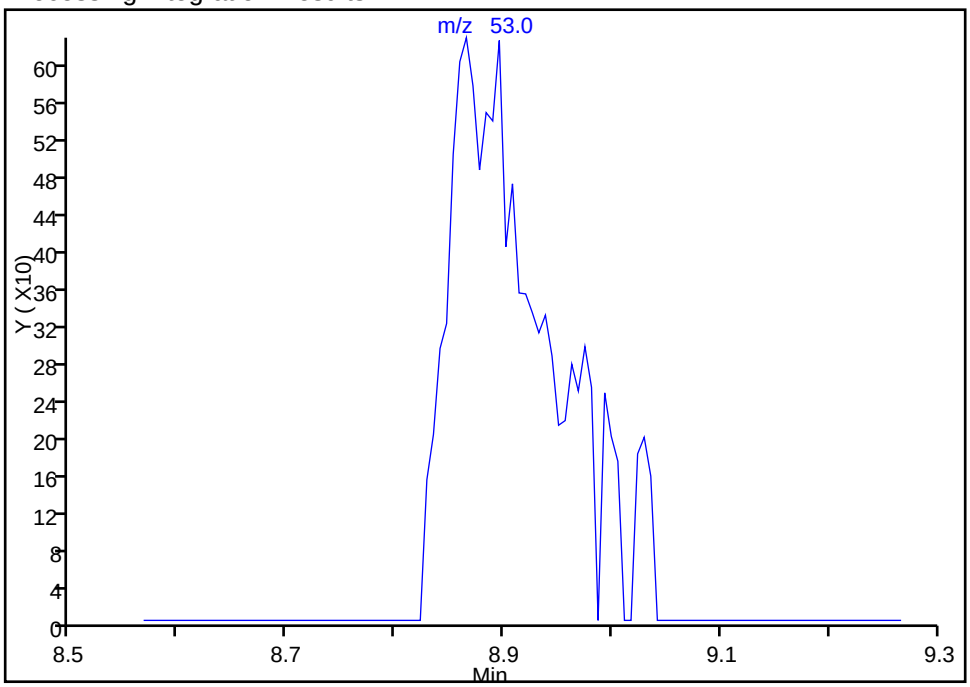
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Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

41 Acrylonitrile, CAS: 107-13-1

Signal: 1

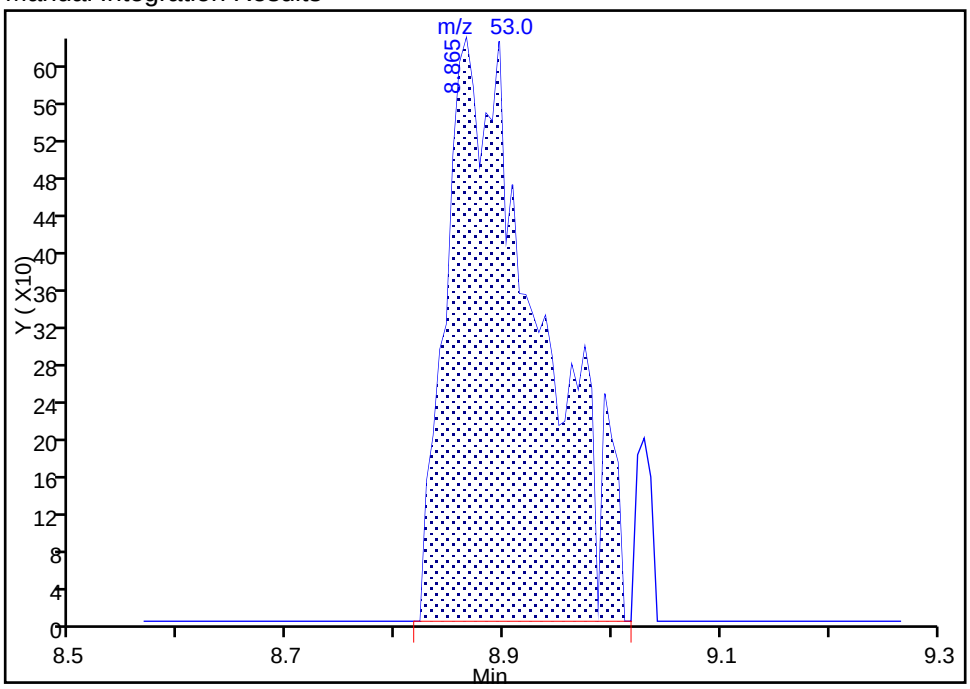
Not Detected
Expected RT: 8.79

Processing Integration Results



Manual Integration Results

RT: 8.87
Area: 3813
Amount: 0.396668
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:30:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

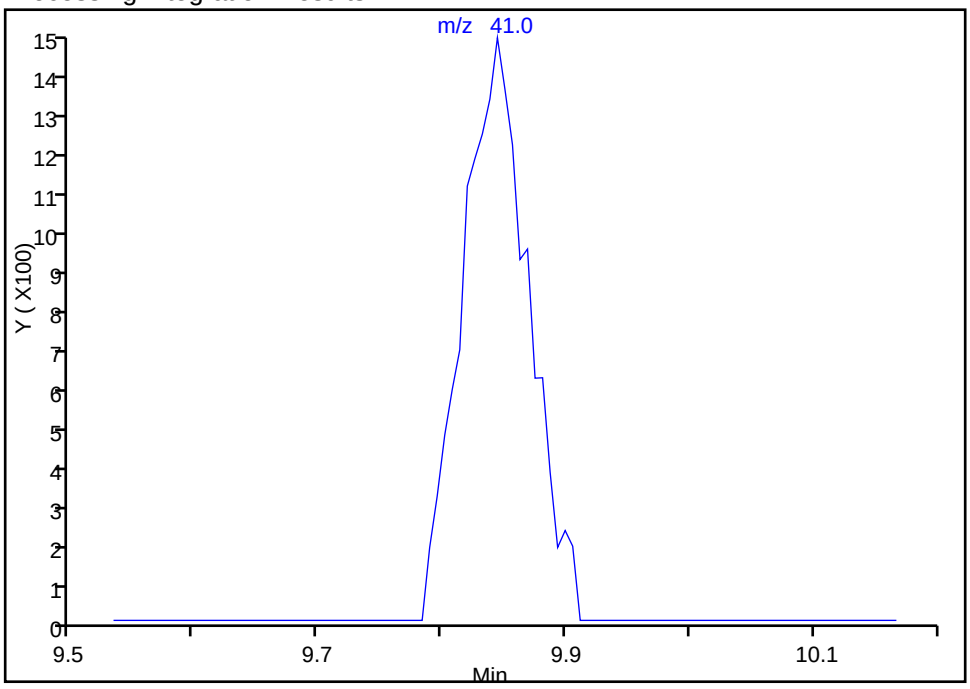
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Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

44 Hexane, CAS: 110-54-3

Signal: 1

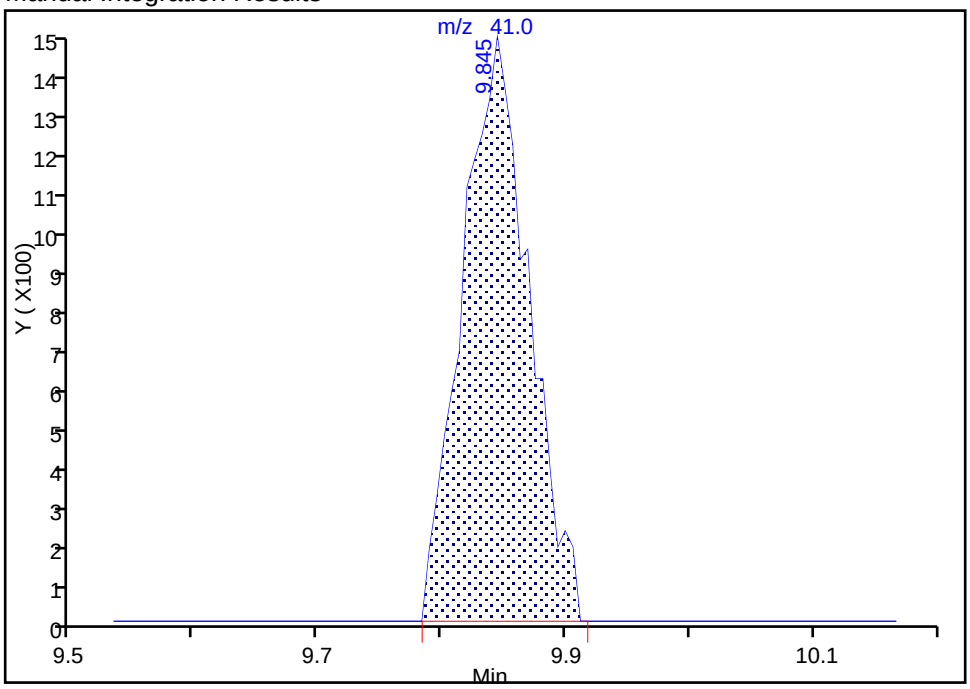
Not Detected
Expected RT: 9.82

Processing Integration Results



Manual Integration Results

RT: 9.84
Area: 5443
Amount: 0.388272
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:30:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

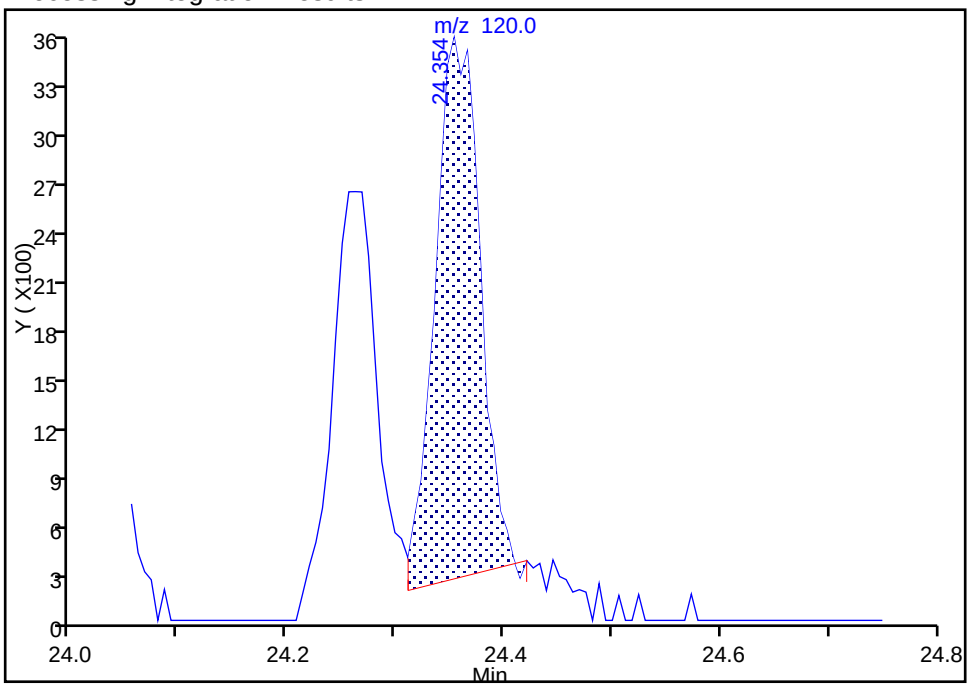
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Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

104 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

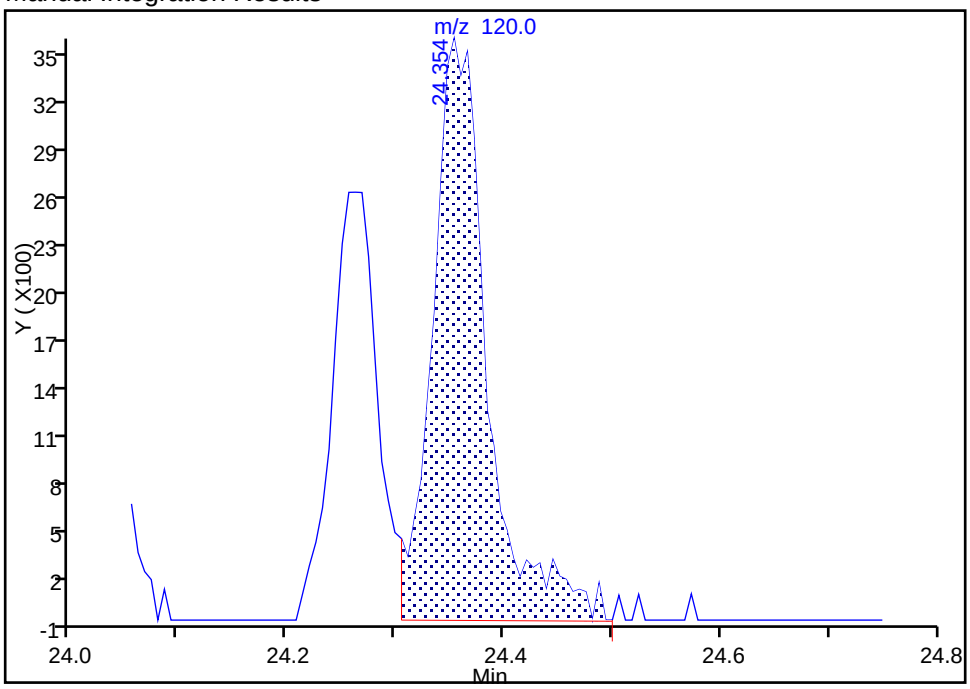
Processing Integration Results

RT: 24.35
Area: 9481
Amount: 0.352778
Amount Units: ppb v/v



Manual Integration Results

RT: 24.35
Area: 12506
Amount: 0.444303
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:32:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

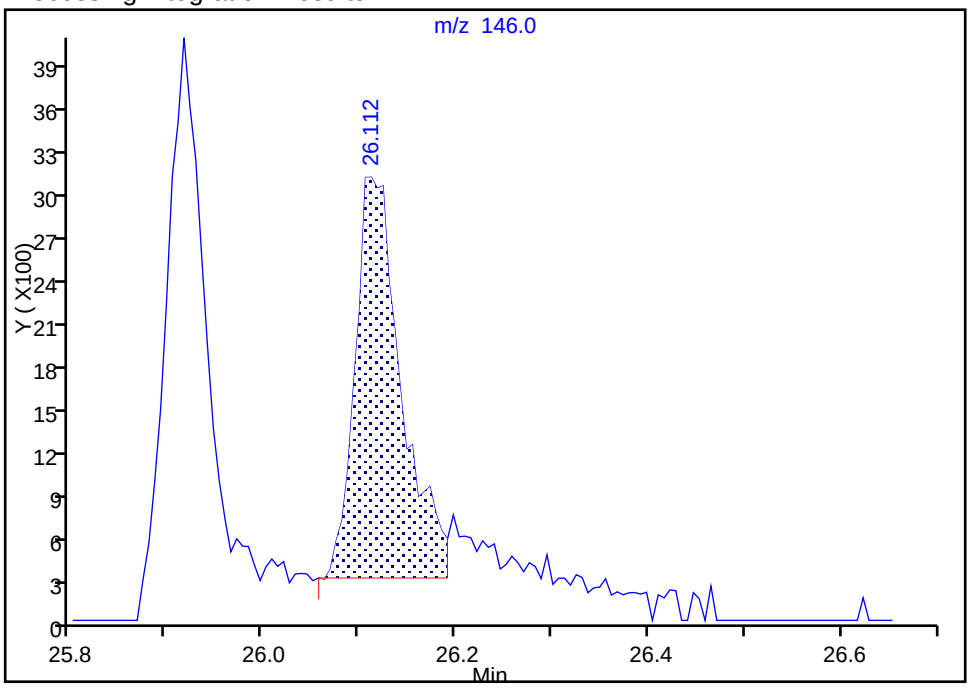
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Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

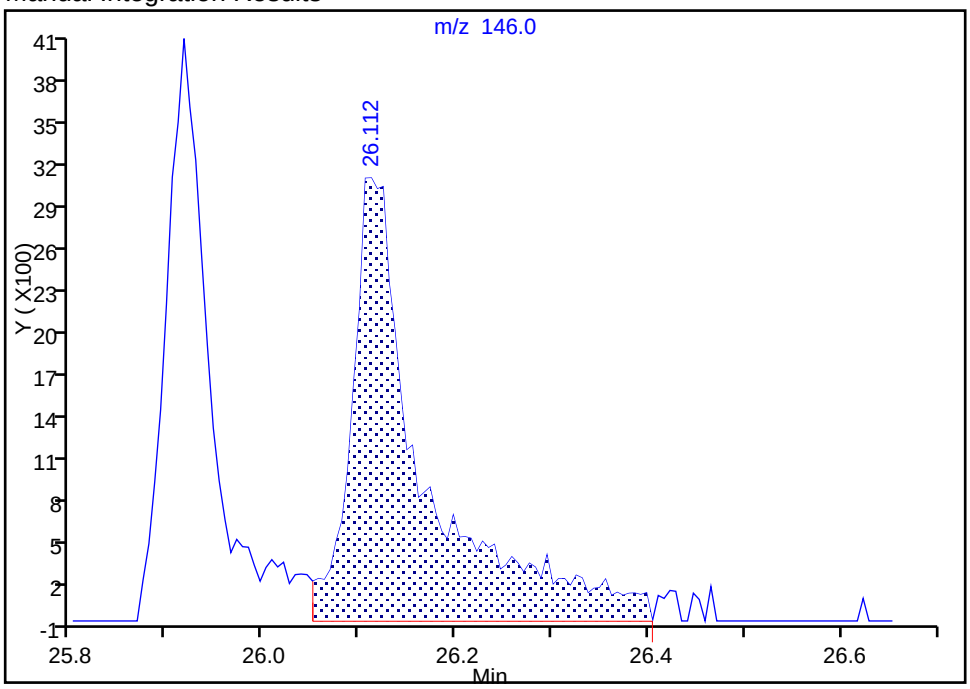
Processing Integration Results

RT: 26.11
Area: 9374
Amount: 0.294529
Amount Units: ppb v/v



Manual Integration Results

RT: 26.11
Area: 16408
Amount: 0.470385
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:33:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

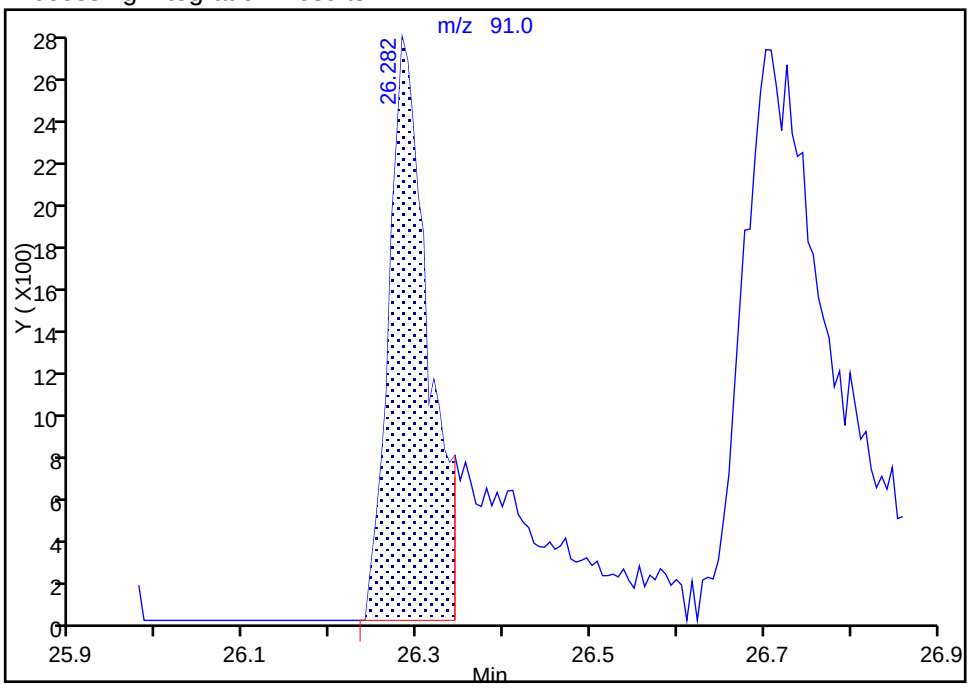
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031405.D
Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

113 Benzyl chloride, CAS: 100-44-7

Signal: 1

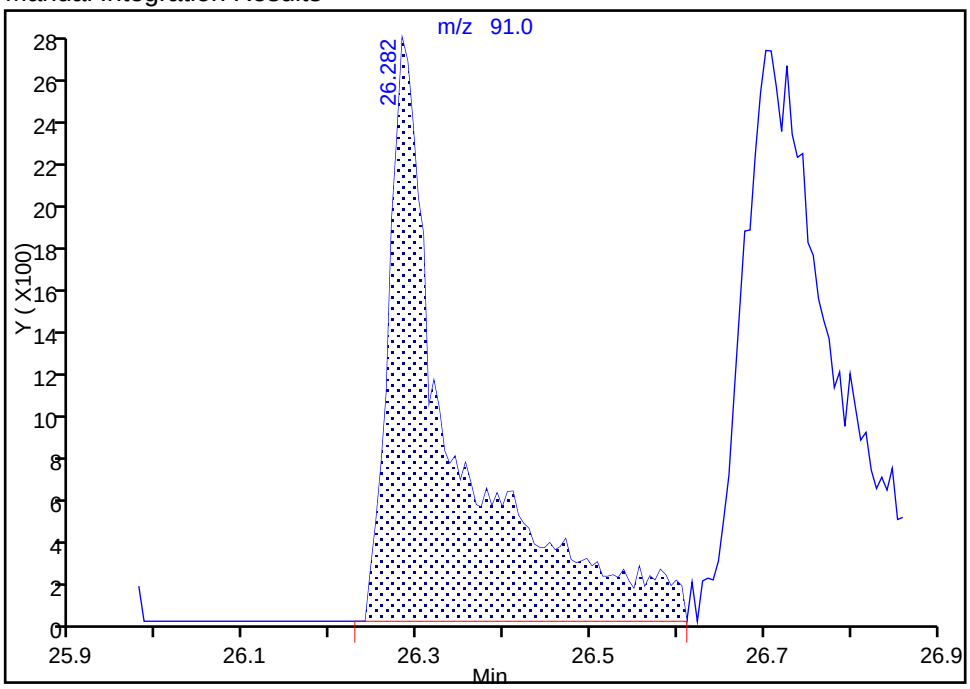
Processing Integration Results

RT: 26.28
Area: 8787
Amount: 0.269265
Amount Units: ppb v/v



Manual Integration Results

RT: 26.28
Area: 14524
Amount: 0.251694
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:33:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

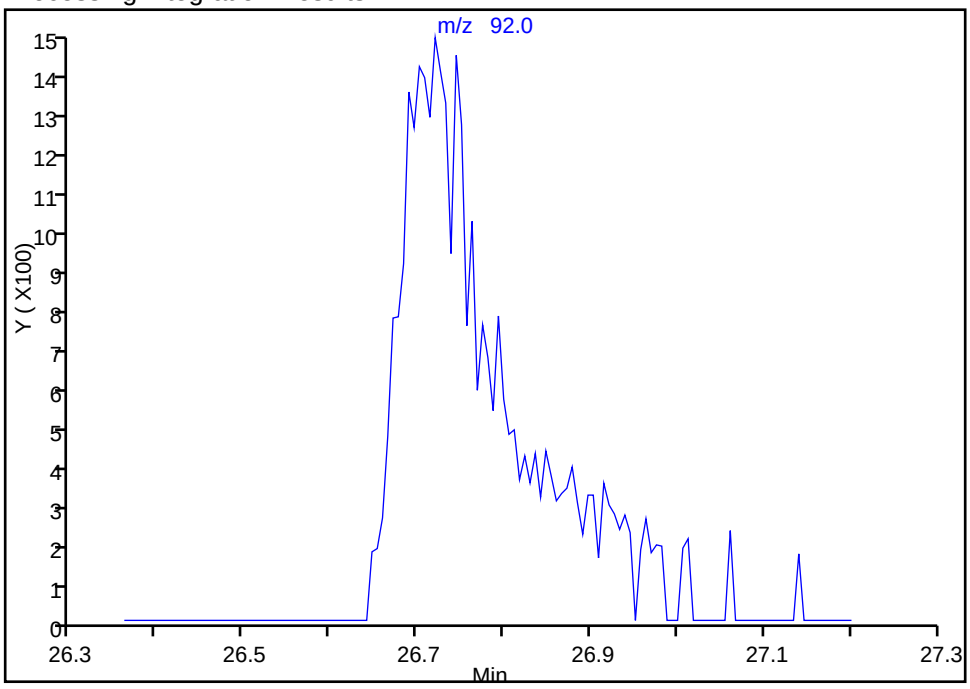
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031405.D
Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

115 n-Butylbenzene, CAS: 104-51-8

Signal: 1

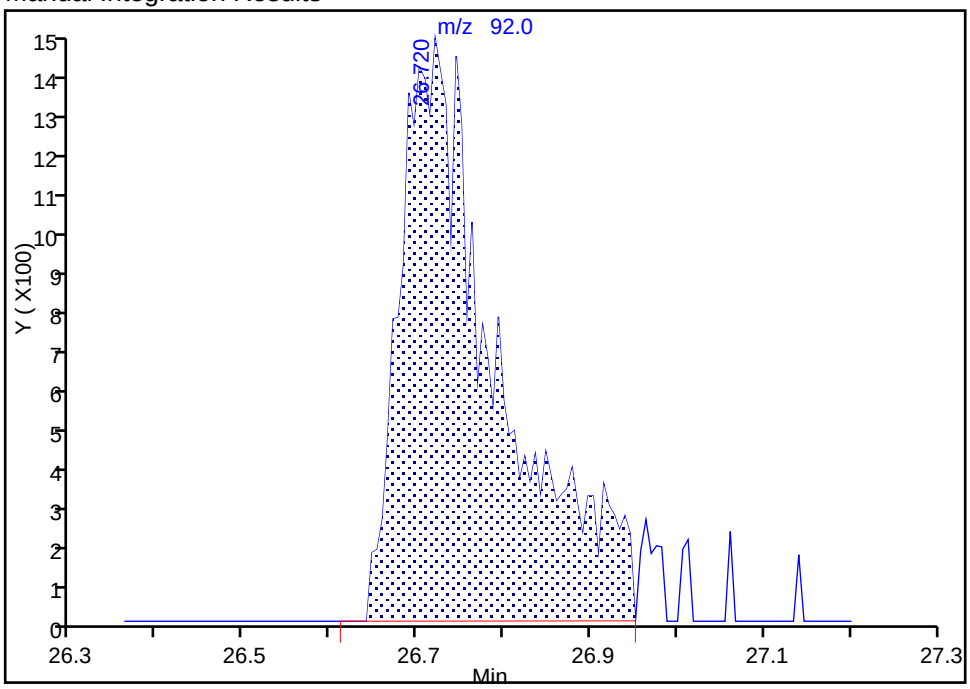
Not Detected
Expected RT: 26.60

Processing Integration Results



Manual Integration Results

RT: 26.72
Area: 11100
Amount: 0.348344
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:34:01
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

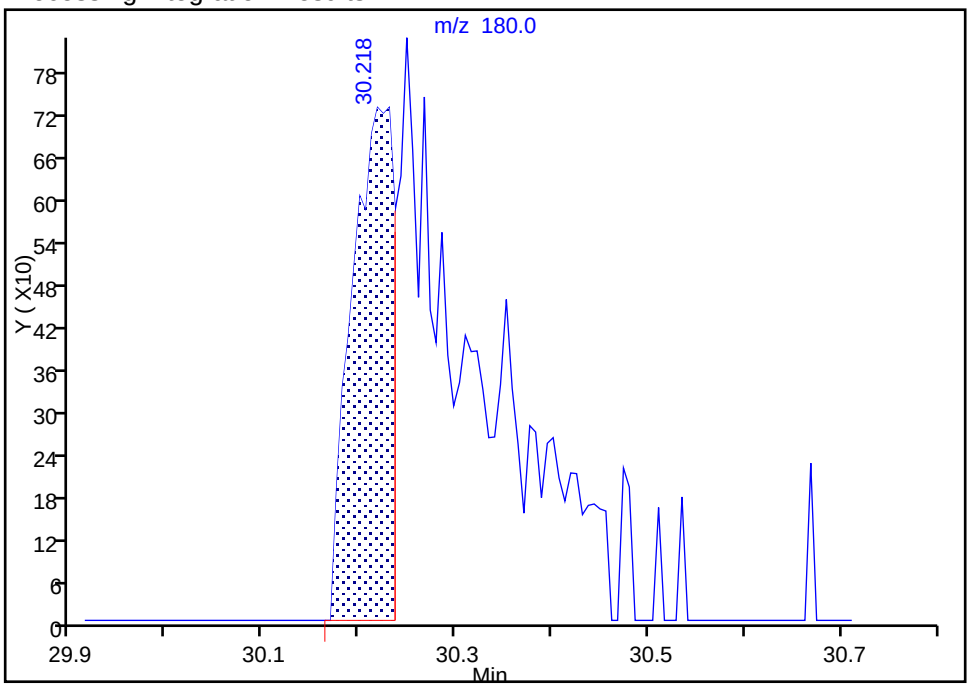
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Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

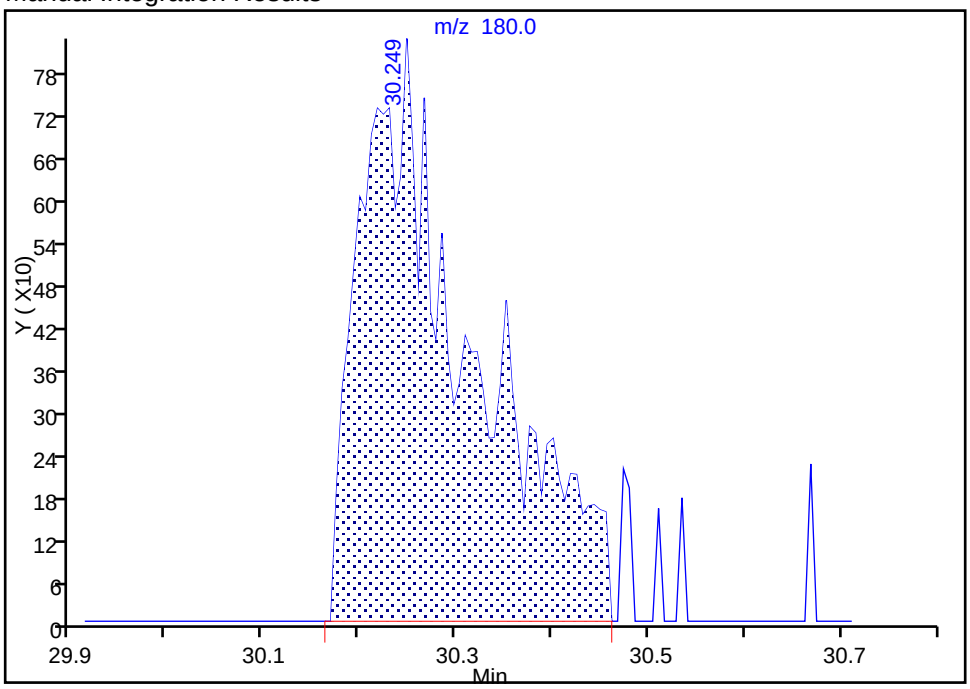
Processing Integration Results

RT: 30.22
Area: 2206
Amount: 0.154138
Amount Units: ppb v/v



Manual Integration Results

RT: 30.25
Area: 6610
Amount: 0.311097
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:34:35
Audit Action: Manually Integrated Audit Reason: Assign Peak

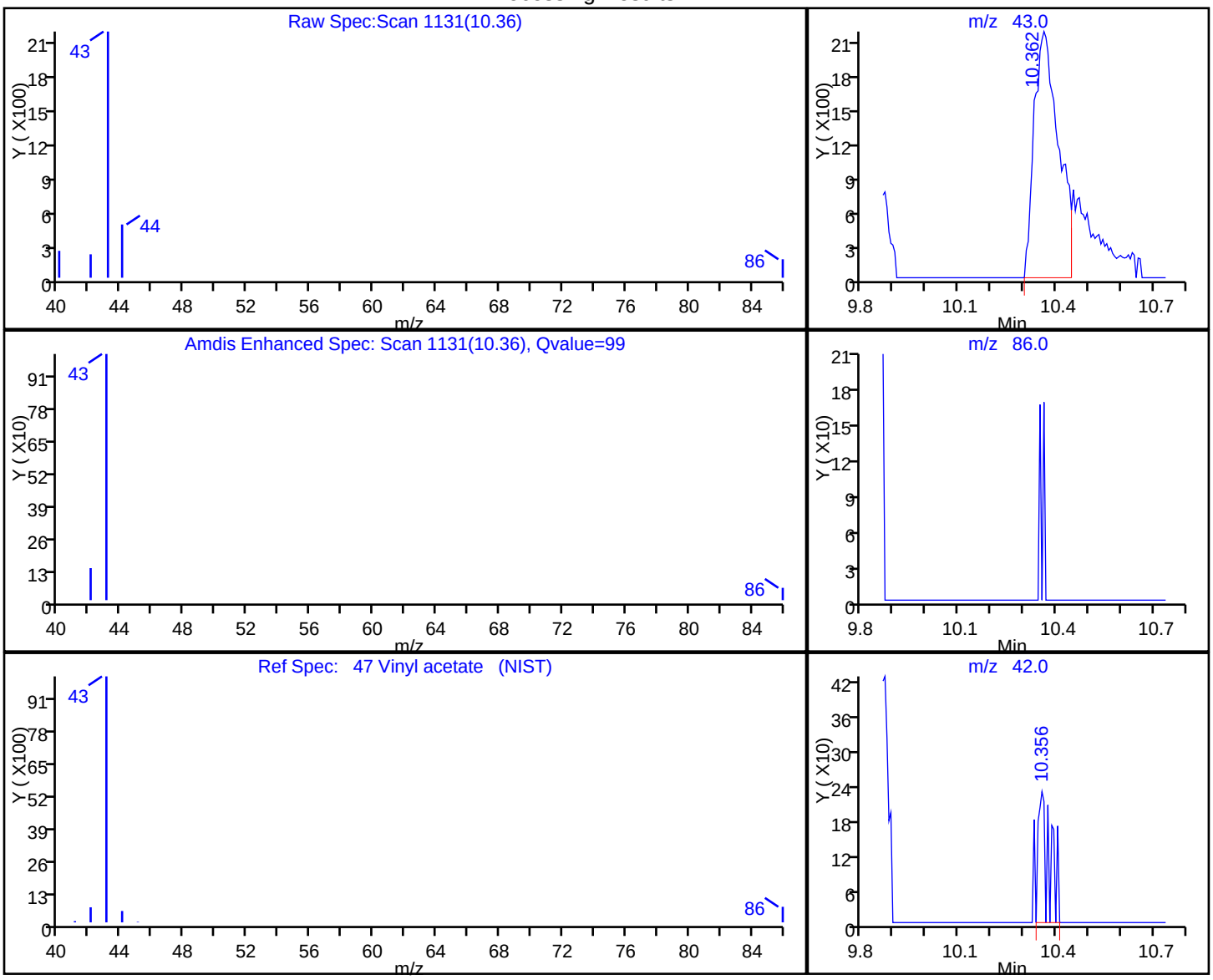
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031405.D
Injection Date: 14-Mar-2018 19:13:30 Instrument ID: ATMS7
Lims ID: IC 0.4ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

47 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
10.36	43.00	11488	0.319150
10.31	86.00	0	
10.36	42.00	548	

Reviewer: phanthasena, 15-Mar-2018 14:34:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031406.D
Lims ID: IC 0.8ppbv
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Mar-2018 20:07:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4 0.8ppbv
Misc. Info.: 200 mL w/ 1.0 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:36 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 14:28:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.211	12.229	-0.018	95	38180	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.365	14.383	-0.018	96	168318	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.045	21.057	-0.012	89	176785	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.416	13.434	-0.018	96	62572	4.00	3.94	
$ 5 Toluene-d8 (Surr)	100	17.766	17.784	-0.018	98	112556	4.00	3.84	
$ 6 4-Bromofluorobenzene (Surr	95	23.594	23.606	-0.012	95	132330	4.00	4.03	
11 Propene	41	3.828	3.816	0.012	98	8125	0.8000	0.8833	
12 Chlorodifluoromethane	51	3.846	3.834	0.012	92	14804	0.8000	0.8809	
13 Dichlorodifluoromethane	85	3.895	3.883	0.012	98	10404	0.8000	0.6760	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.151	4.138	0.013	90	11849	0.8000	0.8536	
16 Chloromethane	50	4.351	4.333	0.018	99	7778	0.8000	0.9427	
17 Butane	43	4.570	4.558	0.012	84	11910	0.8000	0.8481	
18 Vinyl chloride	62	4.607	4.595	0.013	98	6181	0.8000	0.8506	
19 Butadiene	39	4.698	4.680	0.018	96	6620	0.8000	0.9011	
21 Bromomethane	94	5.513	5.489	0.024	97	5227	0.8000	0.9476	
22 Chloroethane	64	5.726	5.702	0.024	73	3642	0.8000	0.8700	
25 Vinyl bromide	106	6.231	6.201	0.030	96	5944	0.8000	0.8873	
26 Trichlorofluoromethane	101	6.371	6.359	0.012	96	18379	0.8000	0.8721	
27 Pentane	43	6.444	6.426	0.018	95	17978	0.8000	0.8396	
29 Ethyl ether	74	7.077	7.034	0.043	33	3445	0.8000	0.8569	
31 Acrolein	56	7.174	7.125	0.049	78	3512	0.8000	0.7621	
32 Acetone	43	7.332	7.283	0.049	97	15850	0.8000	0.8837	
33 1,1,2-Trichloro-1,2,2-trif	101	7.448	7.442	0.006	95	14805	0.8000	0.8548	
34 1,1-Dichloroethene	61	7.697	7.673	0.024	92	12788	0.8000	0.8382	
35 Acetonitrile	41	7.776	7.721	0.055	98	8010	0.8000	0.8388	
36 2-Methyl-2-propanol	59	7.910	7.916	-0.006	92	22773	0.8000	0.8104	
38 3-Chloro-1-propene	41	8.470	8.445	0.025	92	13846	0.8000	0.8473	
39 Methylene Chloride	49	8.652	8.628	0.024	93	12940	0.8000	0.8839	
40 Carbon disulfide	76	8.695	8.671	0.025	96	15189	0.8000	0.8476	
41 Acrylonitrile	53	8.847	8.792	0.055	96	8360	0.8000	0.8789	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.242	9.212	0.030	92	20996	0.8000	0.8283	
43 trans-1,2-Dichloroethene	61	9.419	9.394	0.025	95	11143	0.8000	0.8177	
44 Hexane	41	9.833	9.820	0.013	84	11344	0.8000	0.8178	
45 1,1-Dichloroethane	63	10.277	10.258	0.019	99	15809	0.8000	0.8688	
47 Vinyl acetate	43	10.331	10.301	0.030	100	30308	0.8000	0.7735	
48 2-Butanone (MEK)	72	11.189	11.140	0.049	93	3624	0.8000	0.7427	
51 cis-1,2-Dichloroethene	96	11.579	11.566	0.013	90	7162	0.8000	0.7808	
52 Ethyl acetate	43	11.633	11.591	0.042	93	27187	0.8000	0.8573	
53 Chloroform	83	11.937	11.925	0.012	95	15948	0.8000	0.8225	
54 Tetrahydrofuran	42	12.418	12.363	0.055	91	15424	0.8000	0.8633	
55 1,1,1-Trichloroethane	97	12.874	12.862	0.012	95	17628	0.8000	0.8269	
56 Cyclohexane	84	13.075	13.051	0.024	91	9977	0.8000	0.8151	
58 Isooctane	57	13.367	13.349	0.018	96	55360	0.8000	0.8145	
59 Carbon tetrachloride	117	13.471	13.446	0.025	82	19278	0.8000	0.8106	
60 n-Butanol	56	13.525	13.464	0.061	75	9944	0.8000	0.7452	
61 1,2-Dichloroethane	62	13.610	13.592	0.018	95	13667	0.8000	0.8669	
63 Benzene	78	13.738	13.726	0.012	97	25385	0.8000	0.8041	
64 n-Heptane	43	13.915	13.890	0.025	89	24845	0.8000	0.8194	
65 Trichloroethene	130	15.131	15.113	0.018	97	12292	0.8000	0.8112	
66 1,2-Dichloropropane	76	15.429	15.417	0.012	87	4112	0.8000	0.8105	
67 Methyl methacrylate	69	15.618	15.575	0.043	88	9791	0.8000	0.8109	
68 Dichlorobromomethane	85	15.892	15.880	0.012	97	12545	0.8000	0.7981	
69 1,4-Dioxane	88	15.934	15.898	0.036	73	7186	0.8000	0.8274	
70 Dibromomethane	174	15.959	15.934	0.025	96	11735	0.8000	0.8398	
71 4-Methyl-2-pentanone (MIBK	43	16.768	16.725	0.043	97	39635	0.8000	0.8367	
72 cis-1,3-Dichloropropene	75	17.127	17.102	0.025	96	17987	0.8000	0.7865	
73 n-Octane	43	17.814	17.784	0.030	94	41660	0.8000	0.8702	
75 Toluene	91	17.942	17.918	0.024	92	36120	0.8000	0.8131	
76 trans-1,3-Dichloropropene	75	18.240	18.203	0.037	95	16945	0.8000	0.8201	
77 1,1,2-Trichloroethane	97	18.562	18.544	0.018	97	11896	0.8000	0.8384	
78 2-Hexanone	58	18.709	18.660	0.048	90	16699	0.8000	0.7764	
80 Tetrachloroethene	166	19.451	19.432	0.019	96	19532	0.8000	0.8503	
81 Chlorodibromomethane	129	19.676	19.651	0.025	97	24196	0.8000	0.8184	
82 Ethylene Dibromide	107	20.132	20.108	0.024	98	19000	0.8000	0.8113	
83 Chlorobenzene	112	21.124	21.099	0.025	93	32372	0.8000	0.8343	
84 n-Nonane	43	21.197	21.166	0.031	93	40590	0.8000	0.8437	
86 Ethylbenzene	91	21.306	21.276	0.030	99	51543	0.8000	0.8335	
87 m-Xylene & p-Xylene	91	21.483	21.458	0.025	98	79154	1.60	1.65	
88 o-Xylene	91	22.389	22.359	0.030	98	39428	0.8000	0.8276	
89 Styrene	104	22.413	22.389	0.024	98	29163	0.8000	0.7938	
90 Bromoform	173	22.979	22.955	0.024	96	23104	0.8000	0.7920	
92 Isopropylbenzene	120	23.168	23.143	0.025	97	15027	0.8000	0.8245	
93 1,1,2,2-Tetrachloroethane	83	23.362	23.344	0.018	99	27510	0.8000	0.8230	
97 1,2,3-Trichloropropane	110	23.673	23.642	0.031	95	8661	0.8000	0.8356	
99 N-Propylbenzene	91	24.013	23.983	0.030	98	65603	0.8000	0.8352	
101 n-Decane	57	24.026	24.001	0.025	86	32538	0.8000	0.7023	
102 4-Ethyltoluene	120	24.245	24.220	0.025	98	16689	0.8000	0.8322	
103 2-Chlorotoluene	126	24.318	24.293	0.025	98	14175	0.8000	0.8411	
104 1,3,5-Trimethylbenzene	120	24.342	24.317	0.025	92	22732	0.8000	0.7706	
105 Alpha Methyl Styrene	118	24.920	24.895	0.025	87	21645	0.8000	0.7812	
106 tert-Butylbenzene	91	25.072	25.047	0.025	94	32853	0.8000	0.8128	
107 1,2,4-Trimethylbenzene	120	25.139	25.114	0.025	96	22482	0.8000	0.8394	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.522	25.498	0.024	98	73115	0.8000	0.8583	
109 4-Isopropyltoluene	119	25.802	25.771	0.031	97	58962	0.8000	0.8102	
110 1,3-Dichlorobenzene	146	25.905	25.875	0.030	99	30950	0.8000	0.8559	
111 1,4-Dichlorobenzene	146	26.100	26.076	0.024	93	27868	0.8000	0.7623	
113 Benzyl chloride	91	26.276	26.246	0.030	98	33835	0.6400	0.5595	
114 Undecane	57	26.532	26.447	0.085	90	31558	0.8000	0.6176	
115 n-Butylbenzene	92	26.654	26.599	0.055	97	21088	0.8000	0.6315	
116 1,2-Dichlorobenzene	146	26.836	26.806	0.030	95	29632	0.8000	0.8632	
118 Dodecane	57	28.777	28.625	0.152	89	24112	0.8000	0.6352	M
119 1,2,4-Trichlorobenzene	180	30.188	30.127	0.061	91	16193	0.8000	0.7272	M
120 Hexachlorobutadiene	225	30.517	30.486	0.031	97	18298	0.8000	0.8235	
121 Naphthalene	128	30.638	30.577	0.061	98	45066	0.8000	0.6940	
122 1,2,3-Trichlorobenzene	180	31.143	31.088	0.055	96	15464	0.8000	0.8005	
A 139 C6 Range	1	9.845	(9.623-10.066)		0	58748	0.8000	0.7724	
A 145 Nonmethane Organic Compoun	1	16.230	(3.862-28.679)		0	6489962	0.8000	85.3	
A 146 Total VOC as Hexane	1	16.230	(3.862-28.679)		0	6489962	0.8000	85.3	
A 144 Total VOCs as Tetrachloroe	1	16.314	(3.667-29.217)		0	6574739	0.8000	0	
A 147 TVOC as Toluene	1	16.314	(3.667-29.217)		0	6574739	0.8000	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	55831	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.691)		0	181290	NC	NC	
S 150 Xylenes, Total	91				0		2.40	2.48	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

VACORPIC1.0_00145	Amount Added: 200.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

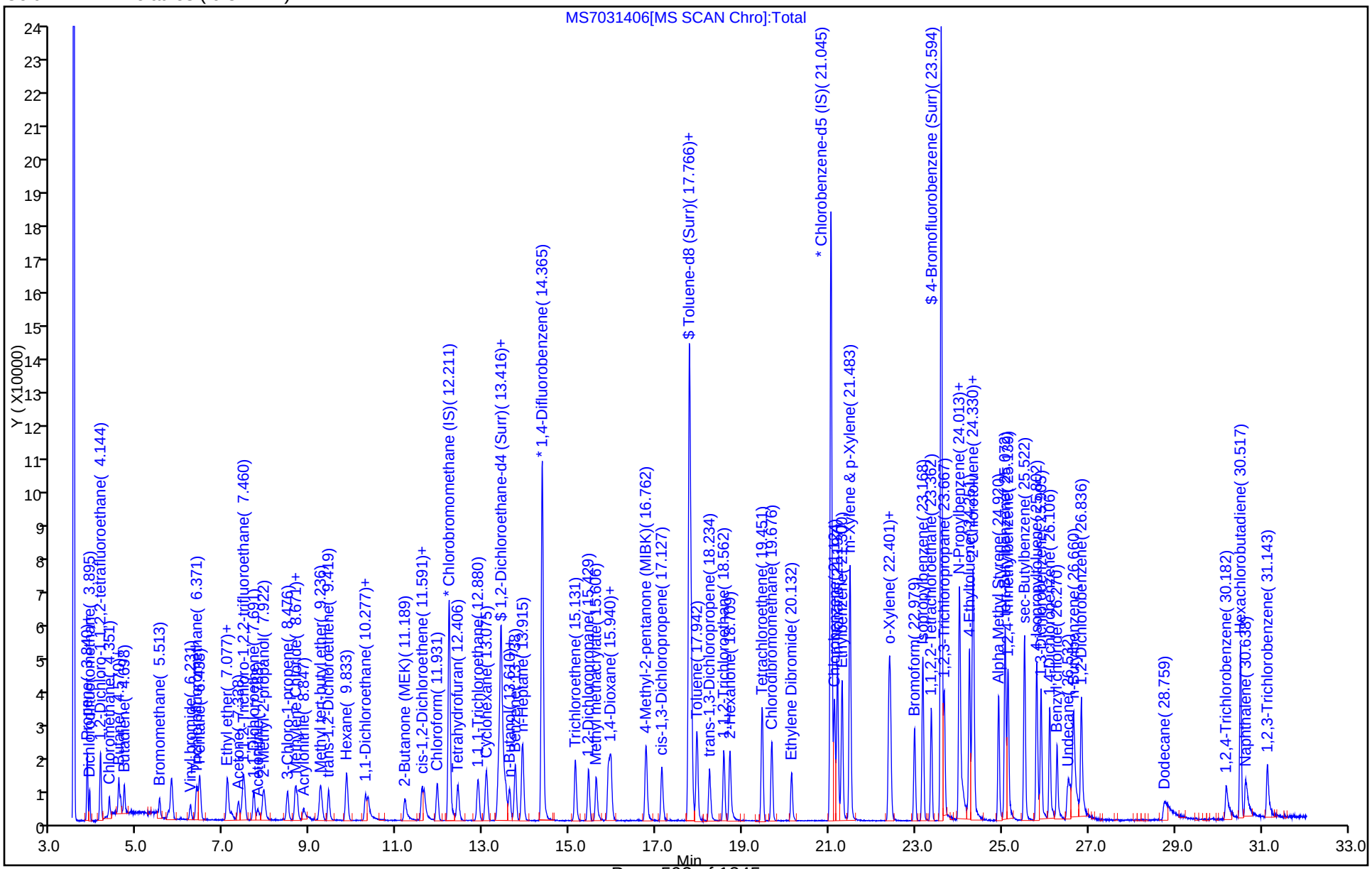
Report Date: 15-Mar-2018 11:13:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031406.D

Injection Date:	14-Mar-2018 20:07:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 0.8ppbv			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:13:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031406.D

Injection Date: 14-Mar-2018 20:07:30 Instrument ID: ATMS7

Lims ID: IC 0.8ppbv

Client ID:

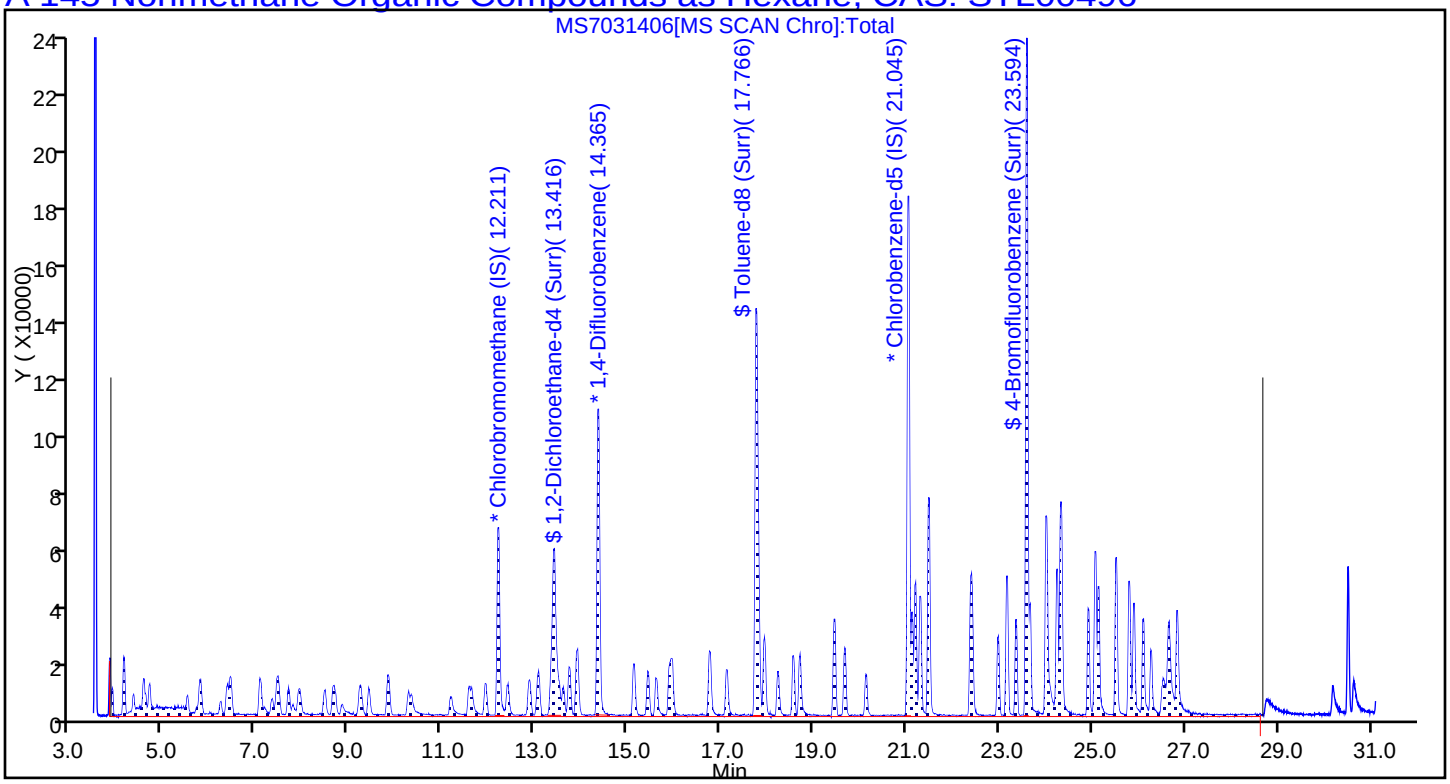
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

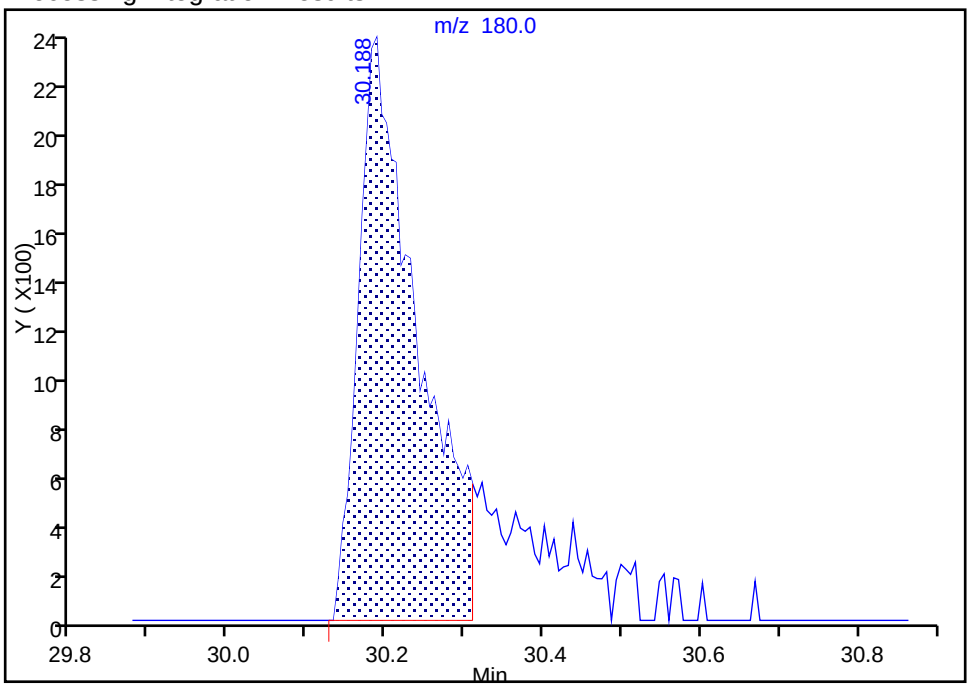
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031406.D
Injection Date: 14-Mar-2018 20:07:30 Instrument ID: ATMS7
Lims ID: IC 0.8ppbv
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

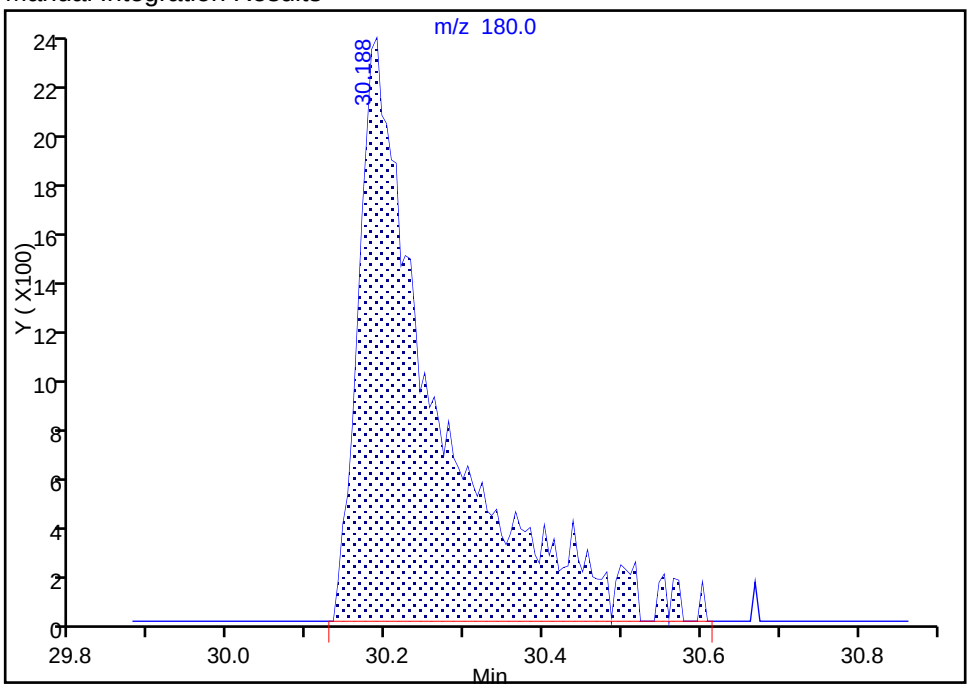
Processing Integration Results

RT: 30.19
Area: 12279
Amount: 0.818640
Amount Units: ppb v/v



Manual Integration Results

RT: 30.19
Area: 16193
Amount: 0.727191
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:26:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031408.D
Lims ID: IC 8ppbv
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Mar-2018 21:57:30 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6 8.0ppbv
Misc. Info.: 50 mL w/ 40 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:40 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 14:16:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.193	12.229	-0.036	95	39058	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.352	14.383	-0.031	96	176800	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.038	21.057	-0.019	89	202551	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.403	13.434	-0.031	96	64053	4.00	3.84	
$ 5 Toluene-d8 (Surr)	100	17.753	17.784	-0.031	98	127869	4.00	4.15	
$ 6 4-Bromofluorobenzene (Surr	95	23.587	23.606	-0.019	90	154070	4.00	4.09	
11 Propene	41	3.816	3.816	0.000	97	69648	8.00	7.40	
12 Chlorodifluoromethane	51	3.828	3.834	-0.006	92	128875	8.00	7.50	
13 Dichlorodifluoromethane	85	3.877	3.883	-0.006	98	135392	8.00	8.60	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.126	4.138	-0.012	91	109567	8.00	7.72	
16 Chloromethane	50	4.327	4.333	-0.006	99	63677	8.00	7.54	
17 Butane	43	4.552	4.558	-0.006	85	107959	8.00	7.52	
18 Vinyl chloride	62	4.588	4.595	-0.006	98	54764	8.00	7.37	
19 Butadiene	39	4.674	4.680	-0.006	96	57072	8.00	7.59	
21 Bromomethane	94	5.489	5.489	0.000	98	42514	8.00	7.53	
22 Chloroethane	64	5.696	5.702	-0.006	75	32834	8.00	7.67	
25 Vinyl bromide	106	6.207	6.201	0.006	97	52727	8.00	7.69	
26 Trichlorofluoromethane	101	6.353	6.359	-0.006	98	168076	8.00	7.80	
27 Pentane	43	6.413	6.426	-0.013	95	180374	8.00	8.23	
29 Ethyl ether	74	7.028	7.034	-0.006	32	32270	8.00	7.85	
31 Acrolein	56	7.119	7.125	-0.006	82	37567	8.00	7.97	
32 Acetone	43	7.277	7.283	-0.006	99	129567	8.00	7.06	
33 1,1,2-Trichloro-1,2,2-trif	101	7.435	7.442	-0.007	97	144235	8.00	8.14	
34 1,1-Dichloroethene	61	7.667	7.673	-0.006	92	124347	8.00	7.97	
35 Acetonitrile	41	7.715	7.721	-0.006	99	75470	8.00	7.73	
36 2-Methyl-2-propanol	59	7.880	7.916	-0.036	91	219505	8.00	7.64	
38 3-Chloro-1-propene	41	8.445	8.445	0.000	92	135850	8.00	8.13	
39 Methylene Chloride	49	8.628	8.628	0.000	93	113435	8.00	7.57	
40 Carbon disulfide	76	8.677	8.671	0.006	96	143291	8.00	7.82	
41 Acrylonitrile	53	8.786	8.792	-0.006	94	73672	8.00	7.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.206	9.212	-0.006	92	199348	8.00	7.69	
43 trans-1,2-Dichloroethene	61	9.394	9.394	0.000	92	113331	8.00	8.13	
44 Hexane	41	9.814	9.820	-0.006	85	122174	8.00	8.61	
45 1,1-Dichloroethane	63	10.258	10.258	0.000	99	150838	8.00	8.10	
47 Vinyl acetate	43	10.295	10.301	-0.006	100	325573	8.00	8.12	
48 2-Butanone (MEK)	72	11.146	11.140	0.006	93	38622	8.00	7.74	
51 cis-1,2-Dichloroethene	96	11.560	11.566	-0.006	97	77069	8.00	8.21	
52 Ethyl acetate	43	11.591	11.591	0.000	96	245943	8.00	7.58	
53 Chloroform	83	11.925	11.925	0.000	95	165849	8.00	8.36	
54 Tetrahydrofuran	42	12.369	12.363	0.006	91	140331	8.00	7.68	
55 1,1,1-Trichloroethane	97	12.874	12.862	0.012	97	182155	8.00	8.35	
56 Cyclohexane	84	13.057	13.051	0.006	91	107822	8.00	8.39	
58 Isooctane	57	13.355	13.349	0.006	97	575098	8.00	8.06	
59 Carbon tetrachloride	117	13.458	13.446	0.012	98	208482	8.00	8.35	
60 n-Butanol	56	13.470	13.464	0.006	74	109600	8.00	8.03	
61 1,2-Dichloroethane	62	13.598	13.592	0.006	96	138309	8.00	8.35	
63 Benzene	78	13.726	13.726	0.000	98	267153	8.00	8.06	
64 n-Heptane	43	13.890	13.890	0.000	90	264665	8.00	8.31	
65 Trichloroethene	130	15.119	15.113	0.006	98	132794	8.00	8.34	
66 1,2-Dichloropropane	76	15.423	15.417	0.006	87	45807	8.00	8.60	
67 Methyl methacrylate	69	15.587	15.575	0.012	87	98938	8.00	7.80	
68 Dichlorobromomethane	85	15.886	15.880	0.006	97	137278	8.00	8.31	
69 1,4-Dioxane	88	15.904	15.898	0.006	71	70159	8.00	7.69	
70 Dibromomethane	174	15.940	15.934	0.006	96	118620	8.00	8.08	
71 4-Methyl-2-pentanone (MIBK	43	16.737	16.725	0.012	97	381833	8.00	7.67	
72 cis-1,3-Dichloropropene	75	17.114	17.102	0.012	97	200239	8.00	8.34	
73 n-Octane	43	17.796	17.784	0.012	95	385010	8.00	7.02	
75 Toluene	91	17.936	17.918	0.018	93	374114	8.00	8.02	
76 trans-1,3-Dichloropropene	75	18.216	18.203	0.013	96	186532	8.00	7.88	
77 1,1,2-Trichloroethane	97	18.556	18.544	0.012	98	123867	8.00	7.62	
78 2-Hexanone	58	18.678	18.660	0.018	89	188891	8.00	7.67	
80 Tetrachloroethene	166	19.444	19.432	0.012	96	203710	8.00	7.74	
81 Chlorodibromomethane	129	19.663	19.651	0.012	98	262876	8.00	7.76	
82 Ethylene Dibromide	107	20.120	20.108	0.012	100	206623	8.00	7.70	
83 Chlorobenzene	112	21.117	21.099	0.018	93	321797	8.00	7.24	
84 n-Nonane	43	21.184	21.166	0.018	93	373932	8.00	6.78	
86 Ethylbenzene	91	21.294	21.276	0.018	99	502138	8.00	7.09	
87 m-Xylene & p-Xylene	91	21.476	21.458	0.018	98	736277	16.0	13.4	
88 o-Xylene	91	22.377	22.359	0.018	98	363931	8.00	6.67	
89 Styrene	104	22.407	22.389	0.018	97	282889	8.00	6.72	
90 Bromoform	173	22.967	22.955	0.012	96	252438	8.00	7.55	
92 Isopropylbenzene	120	23.161	23.143	0.018	97	145918	8.00	6.99	
93 1,1,2,2-Tetrachloroethane	83	23.356	23.344	0.012	99	270607	8.00	7.07	
97 1,2,3-Trichloropropane	110	23.654	23.642	0.012	94	85551	8.00	7.20	
99 N-Propylbenzene	91	24.001	23.983	0.018	99	602709	8.00	6.70	
101 n-Decane	57	24.013	24.001	0.012	84	386487	8.00	7.28	
102 4-Ethyltoluene	120	24.238	24.220	0.018	99	157117	8.00	6.84	
103 2-Chlorotoluene	126	24.311	24.293	0.018	98	128737	8.00	6.67	
104 1,3,5-Trimethylbenzene	120	24.336	24.317	0.019	92	227460	8.00	6.73	
105 Alpha Methyl Styrene	118	24.914	24.895	0.019	88	217550	8.00	6.85	
106 tert-Butylbenzene	91	25.066	25.047	0.019	94	308006	8.00	6.65	
107 1,2,4-Trimethylbenzene	120	25.133	25.114	0.019	98	208226	8.00	6.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.516	25.498	0.018	99	681583	8.00	6.98	
109 4-Isopropyltoluene	119	25.790	25.771	0.019	98	595958	8.00	7.15	
110 1,3-Dichlorobenzene	146	25.893	25.875	0.018	98	283117	8.00	6.83	
111 1,4-Dichlorobenzene	146	26.094	26.076	0.018	94	274128	8.00	6.54	
113 Benzyl chloride	91	26.258	26.246	0.012	98	382973	6.40	5.53	
114 Undecane	57	26.465	26.447	0.018	90	438101	8.00	7.48	
115 n-Butylbenzene	92	26.611	26.599	0.012	98	287758	8.00	7.52	
116 1,2-Dichlorobenzene	146	26.824	26.806	0.018	95	276167	8.00	7.02	
118 Dodecane	57	28.649	28.625	0.024	90	318908	8.00	7.33	
119 1,2,4-Trichlorobenzene	180	30.139	30.127	0.012	95	158304	8.00	6.20	
120 Hexachlorobutadiene	225	30.504	30.486	0.018	97	188809	8.00	7.42	
121 Naphthalene	128	30.590	30.577	0.013	99	485629	8.00	6.53	
122 1,2,3-Trichlorobenzene	180	31.107	31.088	0.019	95	145821	8.00	6.59	
A 139 C6 Range	1	9.857	(9.623-10.066)		0	620697	8.00	7.98	
A 146 Total VOC as Hexane	1	16.271	(3.862-28.679)		0	60966997	8.00	783.6	
A 145 Nonmethane Organic Compound	1	16.271	(3.862-28.679)		0	60966997	8.00	783.6	
A 147 TVOC as Toluene	1	16.458	(3.667-29.217)		0	62094068	8.00	0	
A 144 Total VOCs as Tetrachloroe	1	16.458	(3.667-29.217)		0	62094068	8.00	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	536667	NC	NC	
A 149 PCE Range	1	19.469	(19.247-19.691)		0	1647438	NC	NC	
S 150 Xylenes, Total	91				0		24.0	20.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VACORPIC40_00572	Amount Added: 50.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

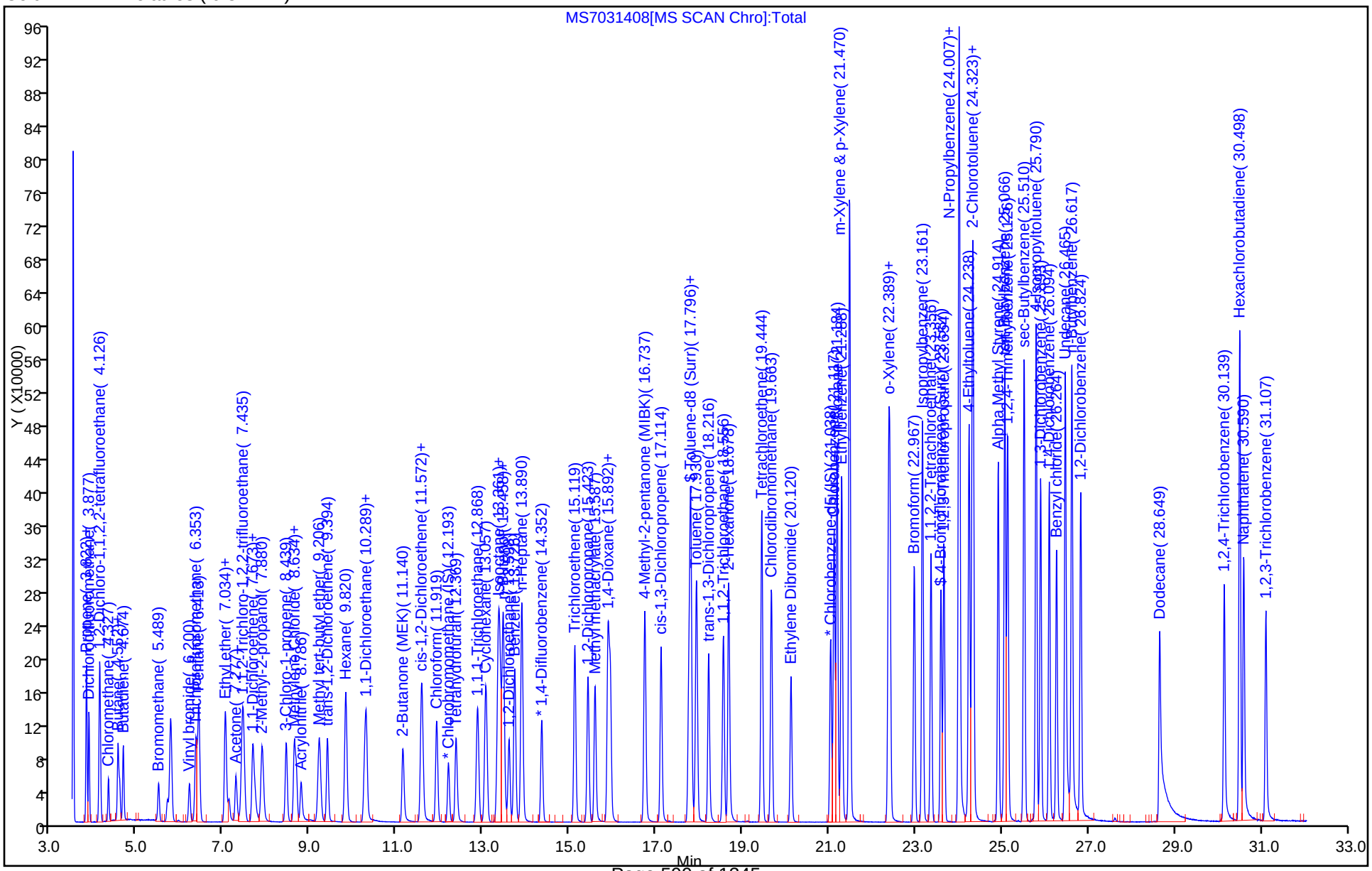
Report Date: 15-Mar-2018 11:13:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031408.D

Injection Date:	14-Mar-2018 21:57:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 8ppbv			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



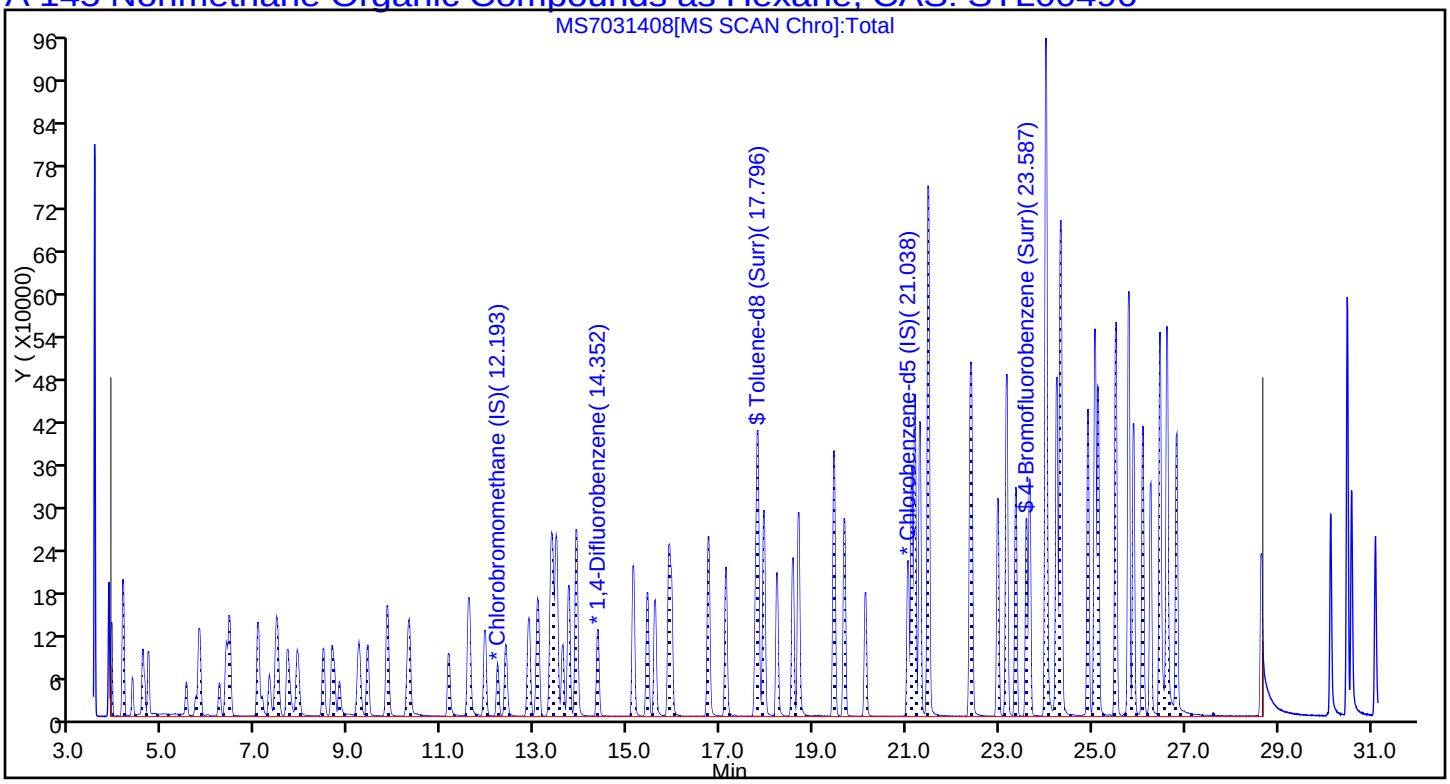
Report Date: 15-Mar-2018 11:13:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031408.D

Injection Date:	14-Mar-2018 21:57:30	Instrument ID:	ATMS7		
Lims ID:	IC 8ppbv				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031409.D
Lims ID: ICIS 20ppbv
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 14-Mar-2018 22:49:30 ALS Bottle#: 2 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 20.0ppbv
Misc. Info.: 125 mL w/ 40 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 16-Mar-2018 09:30:54 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: leeh Date: 16-Mar-2018 09:30:54

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.193	12.193	0.000	95	38220	4.00	4.00	
*	2 1,4-Difluorobenzene	114	14.353	14.353	0.000	96	173408	4.00	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.032	21.032	0.000	89	199238	4.00	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.397	13.397	0.000	95	65510	4.00	4.01	
$	5 Toluene-d8 (Surr)	100	17.753	17.753	0.000	98	127120	4.00	4.21	
$	6 4-Bromofluorobenzene (Surr	95	23.587	23.587	0.000	91	157240	4.00	4.25	
	11 Propene	41	3.816	3.816	0.000	97	185513	20.0	20.1	
	12 Chlorodifluoromethane	51	3.828	3.828	0.000	92	337267	20.0	20.0	
	13 Dichlorodifluoromethane	85	3.877	3.877	0.000	98	347115	20.0	22.5	
	14 1,2-Dichloro-1,1,2,2-tetra	135	4.126	4.126	0.000	92	286784	20.0	20.6	
	16 Chloromethane	50	4.327	4.327	0.000	99	162289	20.0	19.6	
	17 Butane	43	4.546	4.546	0.000	85	274474	20.0	19.5	
	18 Vinyl chloride	62	4.582	4.582	0.000	98	141505	20.0	19.5	
	19 Butadiene	39	4.667	4.667	0.000	95	145512	20.0	19.8	
	21 Bromomethane	94	5.483	5.483	0.000	98	100719	20.0	18.2	
	22 Chloroethane	64	5.683	5.683	0.000	75	85948	20.0	20.5	
	25 Vinyl bromide	106	6.194	6.194	0.000	99	139822	20.0	20.8	
	26 Trichlorofluoromethane	101	6.353	6.353	0.000	98	434062	20.0	20.6	
	27 Pentane	43	6.413	6.413	0.000	95	459190	20.0	21.4	
	29 Ethyl ether	74	7.022	7.022	0.000	32	86010	20.0	21.4	
	31 Acrolein	56	7.107	7.107	0.000	83	97101	20.0	21.0	
	32 Acetone	43	7.265	7.265	0.000	99	348987	20.0	19.4	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.429	7.429	0.000	96	358388	20.0	20.7	
	34 1,1-Dichloroethene	61	7.661	7.661	0.000	92	324507	20.0	21.2	
	35 Acetonitrile	41	7.697	7.697	0.000	99	204438	20.0	21.4	
	36 2-Methyl-2-propanol	59	7.874	7.874	0.000	91	577683	20.0	20.5	
	38 3-Chloro-1-propene	41	8.433	8.433	0.000	91	351036	20.0	21.5	
	39 Methylene Chloride	49	8.622	8.622	0.000	93	291703	20.0	19.9	
	40 Carbon disulfide	76	8.670	8.670	0.000	96	367842	20.0	20.5	
	41 Acrylonitrile	53	8.780	8.780	0.000	94	186632	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.200	9.200	0.000	93	528492	20.0	20.8	
43 trans-1,2-Dichloroethene	61	9.388	9.388	0.000	93	286922	20.0	21.0	
44 Hexane	41	9.814	9.814	0.000	85	299936	20.0	21.6	
45 1,1-Dichloroethane	63	10.252	10.252	0.000	99	385084	20.0	21.1	
47 Vinyl acetate	43	10.289	10.289	0.000	100	841035	20.0	21.4	
48 2-Butanone (MEK)	72	11.134	11.134	0.000	93	103173	20.0	21.1	
51 cis-1,2-Dichloroethene	96	11.560	11.560	0.000	95	194223	20.0	21.2	
52 Ethyl acetate	43	11.585	11.585	0.000	96	653806	20.0	20.6	
53 Chloroform	83	11.919	11.919	0.000	95	413220	20.0	21.3	
54 Tetrahydrofuran	42	12.357	12.357	0.000	92	371964	20.0	20.8	
55 1,1,1-Trichloroethane	97	12.868	12.868	0.000	96	450673	20.0	21.1	
56 Cyclohexane	84	13.063	13.063	0.000	91	266265	20.0	21.1	
58 Isooctane	57	13.349	13.349	0.000	97	1467067	20.0	21.0	
59 Carbon tetrachloride	117	13.452	13.452	0.000	98	512126	20.0	20.9	
60 n-Butanol	56	13.458	13.458	0.000	69	277287	20.0	20.8	
61 1,2-Dichloroethane	62	13.592	13.592	0.000	96	337994	20.0	20.8	
63 Benzene	78	13.726	13.726	0.000	98	664287	20.0	20.4	
64 n-Heptane	43	13.890	13.890	0.000	90	667196	20.0	21.4	
65 Trichloroethene	130	15.113	15.113	0.000	98	325274	20.0	20.8	
66 1,2-Dichloropropane	76	15.417	15.417	0.000	86	112606	20.0	21.5	
67 Methyl methacrylate	69	15.581	15.581	0.000	87	270800	20.0	21.8	
68 Dichlorobromomethane	85	15.886	15.886	0.000	97	338522	20.0	20.9	
69 1,4-Dioxane	88	15.898	15.898	0.000	72	178006	20.0	19.9	
70 Dibromomethane	174	15.940	15.940	0.000	96	288798	20.0	20.1	
71 4-Methyl-2-pentanone (MIBK	43	16.731	16.731	0.000	97	1039602	20.0	21.3	
72 cis-1,3-Dichloropropene	75	17.114	17.114	0.000	98	498261	20.0	21.1	
73 n-Octane	43	17.796	17.796	0.000	95	1082318	20.0	20.1	
75 Toluene	91	17.930	17.930	0.000	93	951528	20.0	20.8	
76 trans-1,3-Dichloropropene	75	18.210	18.210	0.000	96	473810	20.0	20.3	
77 1,1,2-Trichloroethane	97	18.550	18.550	0.000	98	315835	20.0	19.7	
78 2-Hexanone	58	18.672	18.672	0.000	89	522714	20.0	21.6	
80 Tetrachloroethene	166	19.438	19.438	0.000	96	511646	20.0	19.8	
81 Chlorodibromomethane	129	19.663	19.663	0.000	98	672310	20.0	20.2	
82 Ethylene Dibromide	107	20.120	20.120	0.000	98	530910	20.0	20.1	
83 Chlorobenzene	112	21.117	21.117	0.000	93	867616	20.0	19.8	
84 n-Nonane	43	21.178	21.178	0.000	93	1174415	20.0	21.7	
86 Ethylbenzene	91	21.288	21.288	0.000	98	1421934	20.0	20.4	
87 m-Xylene & p-Xylene	91	21.470	21.470	0.000	98	2221490	40.0	41.2	
88 o-Xylene	91	22.377	22.377	0.000	98	1121965	20.0	20.9	
89 Styrene	104	22.407	22.407	0.000	97	912807	20.0	22.0	
90 Bromoform	173	22.973	22.973	0.000	96	690015	20.0	21.0	
92 Isopropylbenzene	120	23.162	23.162	0.000	97	442324	20.0	21.5	
93 1,1,2,2-Tetrachloroethane	83	23.356	23.356	0.000	99	768096	20.0	20.4	
97 1,2,3-Trichloropropane	110	23.654	23.654	0.000	95	237548	20.0	20.3	
99 N-Propylbenzene	91	24.001	24.001	0.000	98	1871814	20.0	21.1	
101 n-Decane	57	24.013	24.013	0.000	84	1155865	20.0	22.1	
102 4-Ethyltoluene	120	24.238	24.238	0.000	99	490920	20.0	21.7	
103 2-Chlorotoluene	126	24.311	24.311	0.000	98	389646	20.0	20.5	
104 1,3,5-Trimethylbenzene	120	24.336	24.336	0.000	92	678709	20.0	20.4	
105 Alpha Methyl Styrene	118	24.914	24.914	0.000	87	695073	20.0	22.3	
106 tert-Butylbenzene	91	25.066	25.066	0.000	94	914743	20.0	20.1	
107 1,2,4-Trimethylbenzene	120	25.133	25.133	0.000	98	652746	20.0	21.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.510	25.510	0.000	99	2039371	20.0	21.2	
109 4-Isopropyltoluene	119	25.790	25.790	0.000	98	1769907	20.0	21.6	
110 1,3-Dichlorobenzene	146	25.893	25.893	0.000	99	875174	20.0	21.5	
111 1,4-Dichlorobenzene	146	26.094	26.094	0.000	96	860463	20.0	20.9	
113 Benzyl chloride	91	26.258	26.258	0.000	98	1201584	16.0	17.6	
114 Undecane	57	26.459	26.459	0.000	91	1286921	20.0	22.3	
115 n-Butylbenzene	92	26.611	26.611	0.000	98	868551	20.0	23.1	
116 1,2-Dichlorobenzene	146	26.824	26.824	0.000	95	821533	20.0	21.2	
118 Dodecane	57	28.637	28.637	0.000	92	921315	20.0	21.5	
119 1,2,4-Trichlorobenzene	180	30.139	30.139	0.000	95	554625	20.0	22.1	
120 Hexachlorobutadiene	225	30.498	30.498	0.000	98	535192	20.0	21.4	
121 Naphthalene	128	30.590	30.590	0.000	99	1554262	20.0	21.2	a
122 1,2,3-Trichlorobenzene	180	31.101	31.101	0.000	95	473297	20.0	21.7	
A 139 C6 Range	1	9.860	(9.617-10.072)		0	1534062	20.0	20.1	
A 146 Total VOC as Hexane	1	16.271	(3.862-28.679)		0	171434026	20.0	2251.7	
A 145 Nonmethane Organic Compound	1	16.271	(3.862-28.679)		0	171434026	20.0	2251.7	
A 147 TVOC as Toluene	1	16.314	(3.667-28.962)		0	173417061	20.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.314	(3.667-28.962)		0	173417061	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1244797	NC	NC	
A 149 PCE Range	1	19.475	(19.253-19.697)		0	5128299	NC	NC	
S 150 Xylenes, Total	91				0		60.0	62.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

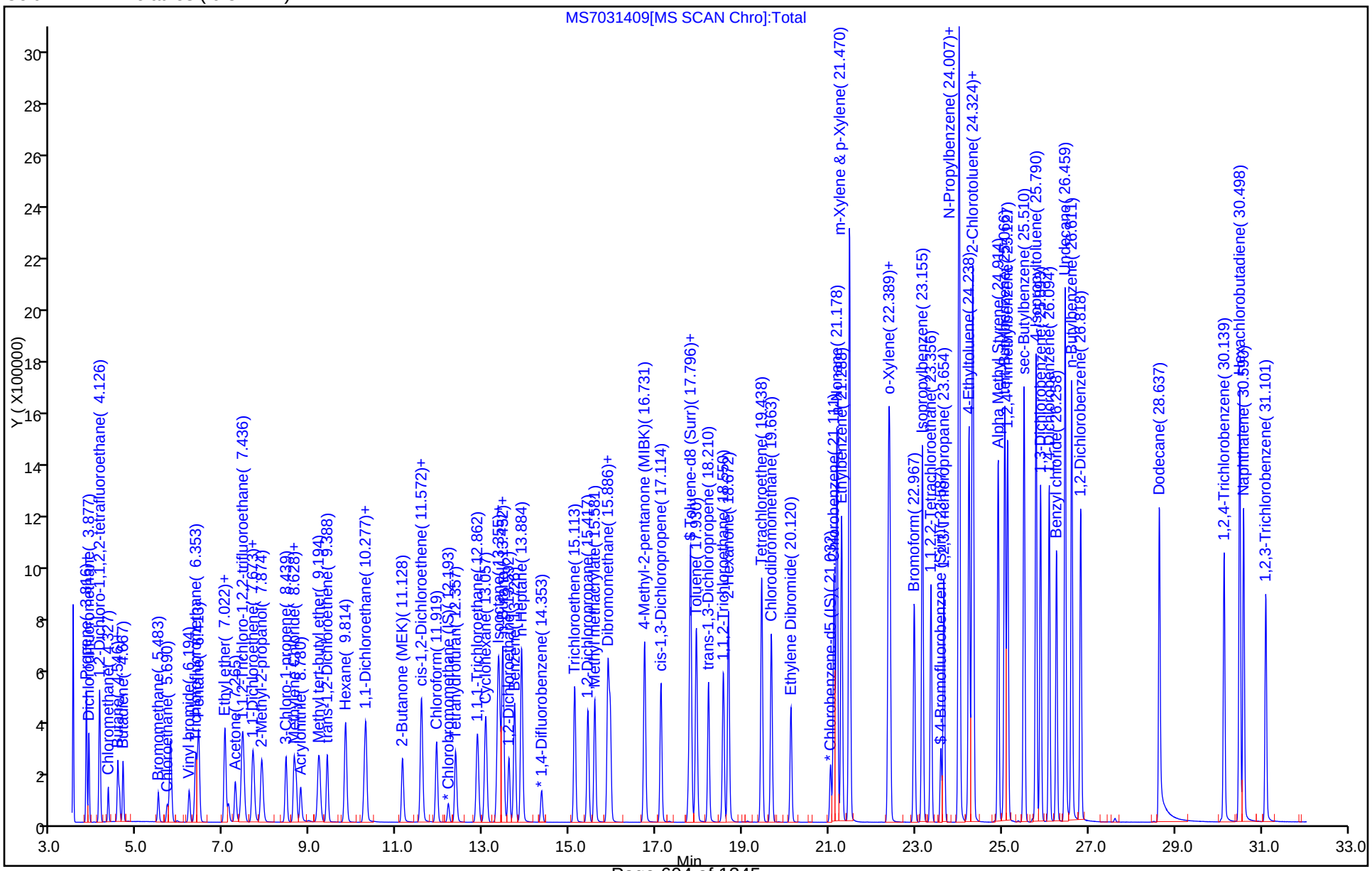
Report Date: 16-Mar-2018 09:30:59 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031409.D

Injection Date:	14-Mar-2018 22:49:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	ICIS 20ppbv			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



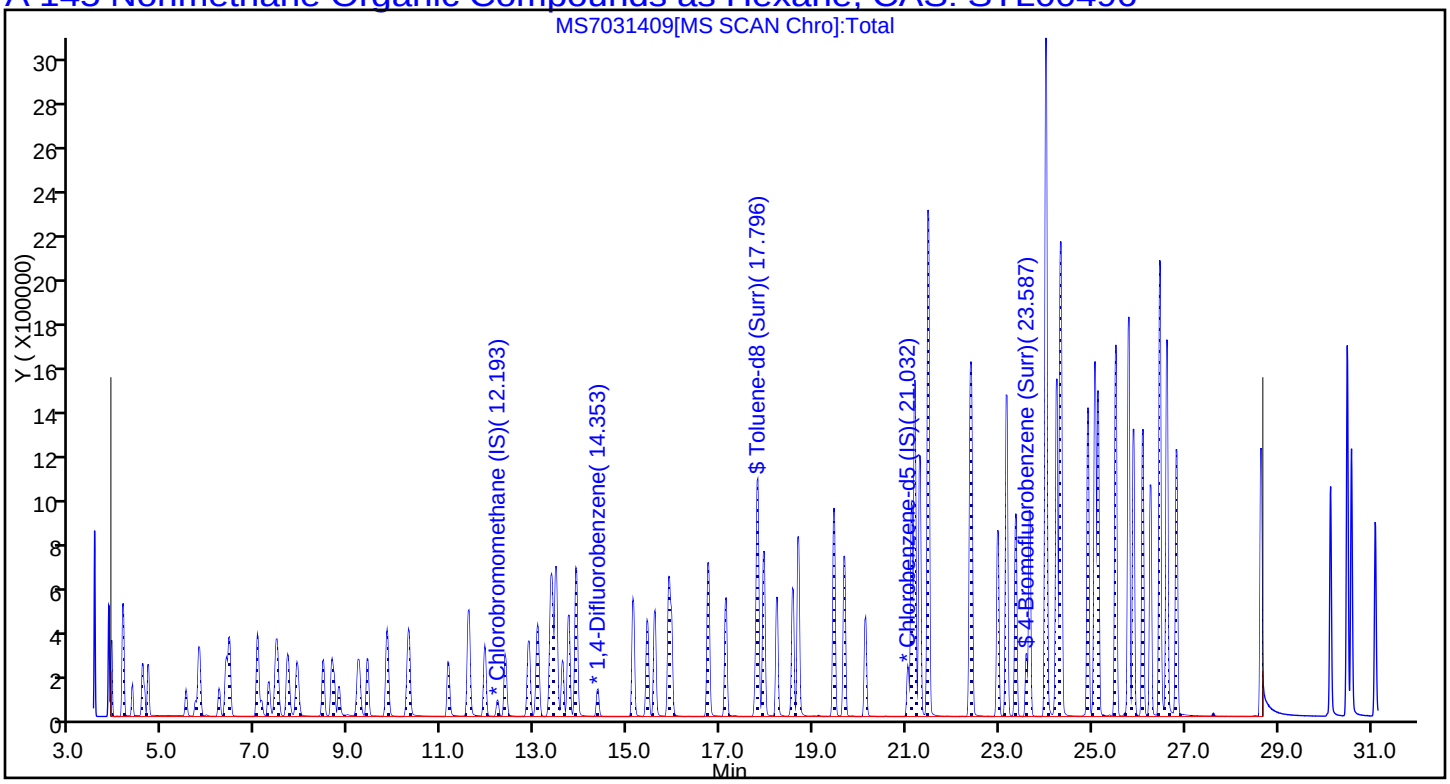
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031409.D

Injection Date:	14-Mar-2018 22:49:30	Instrument ID:	ATMS7		
Lims ID:	ICIS 20ppbv				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

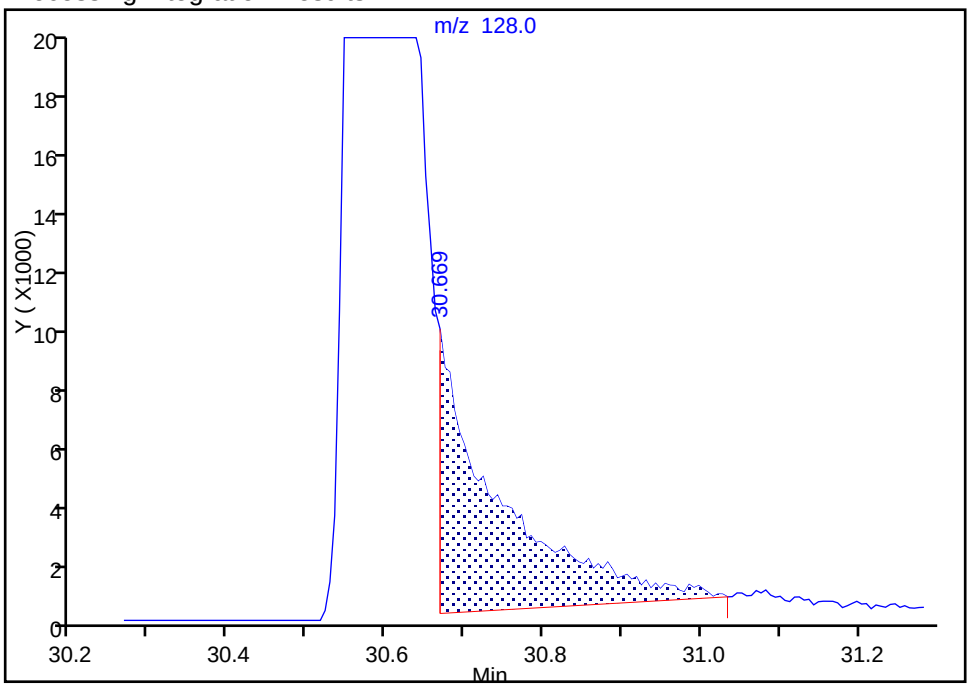
Data File:	\\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031409.D				
Injection Date:	14-Mar-2018 22:49:30	Instrument ID:	ATMS7		
Lims ID:	ICIS 20ppbv				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

121 Naphthalene, CAS: 91-20-3

Signal: 1

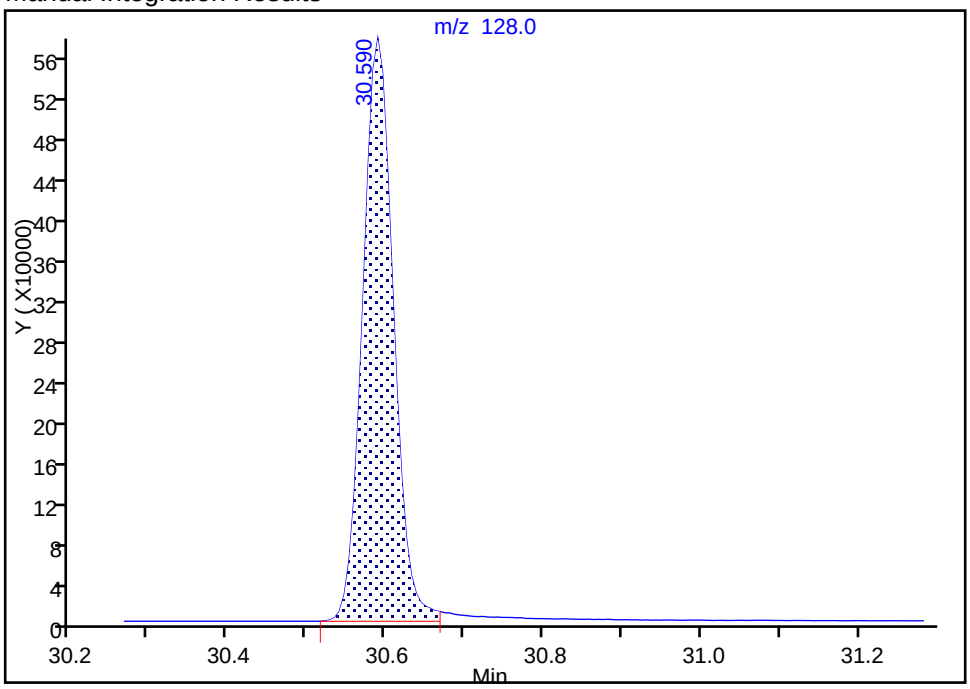
Processing Integration Results

RT: 30.67
Area: 48436
Amount: 1.142854
Amount Units: ppb v/v



Manual Integration Results

RT: 30.59
Area: 1554262
Amount: 21.237182
Amount Units: ppb v/v



Reviewer: phanthasena, 15-Mar-2018 14:12:36

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031410.D
Lims ID: IC 40ppbv
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Mar-2018 23:44:30 ALS Bottle#: 2 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 8 40.0ppbv
Misc. Info.: 250 mL w/ 40 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:50 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 17:00:21

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.199	12.199	0.000	96	44606	4.00	4.00	
*	2 1,4-Difluorobenzene	114	14.352	14.352	0.000	96	195954	4.00	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.032	21.032	0.000	88	218486	4.00	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.397	13.397	0.000	94	78676	4.00	4.26	
$	5 Toluene-d8 (Surr)	100	17.753	17.753	0.000	98	140805	4.00	4.13	
$	6 4-Bromofluorobenzene (Surr	95	23.581	23.581	0.000	89	170804	4.00	4.21	
	11 Propene	41	3.822	3.822	0.000	98	415832	40.0	38.7	
	12 Chlorodifluoromethane	51	3.834	3.834	0.000	92	753218	40.0	38.4	
	13 Dichlorodifluoromethane	85	3.889	3.889	0.000	98	761255	40.0	42.3	
	14 1,2-Dichloro-1,1,2,2-tetra	135	4.138	4.138	0.000	96	649281	40.0	40.0	
	16 Chloromethane	50	4.333	4.333	0.000	99	375016	40.0	38.9	
	17 Butane	43	4.558	4.558	0.000	85	640675	40.0	39.1	
	18 Vinyl chloride	62	4.594	4.594	0.000	98	336088	40.0	39.6	
	19 Butadiene	39	4.680	4.680	0.000	95	341463	40.0	39.8	
	21 Bromomethane	94	5.495	5.495	0.000	99	236918	40.0	36.8	
	22 Chloroethane	64	5.696	5.696	0.000	75	201228	40.0	41.1	
	25 Vinyl bromide	106	6.207	6.207	0.000	99	322812	40.0	41.2	
	26 Trichlorofluoromethane	101	6.359	6.359	0.000	98	989800	40.0	40.2	
	27 Pentane	43	6.426	6.426	0.000	95	1037811	40.0	41.5	
	29 Ethyl ether	74	7.034	7.034	0.000	40	198396	40.0	42.2	
	31 Acrolein	56	7.113	7.113	0.000	83	224761	40.0	41.7	
	32 Acetone	43	7.271	7.271	0.000	99	803005	40.0	38.3	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.448	7.448	0.000	97	820294	40.0	40.5	
	34 1,1-Dichloroethene	61	7.673	7.673	0.000	92	740654	40.0	41.6	
	35 Acetonitrile	41	7.709	7.709	0.000	99	475227	40.0	42.6	
	36 2-Methyl-2-propanol	59	7.892	7.892	0.000	90	1332755	40.0	40.6	
	38 3-Chloro-1-propene	41	8.445	8.445	0.000	91	803211	40.0	42.1	
	39 Methylene Chloride	49	8.634	8.634	0.000	93	658107	40.0	38.5	
	40 Carbon disulfide	76	8.677	8.677	0.000	96	856887	40.0	40.9	
	41 Acrylonitrile	53	8.786	8.786	0.000	94	453800	40.0	40.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.200	9.200	0.000	95	1235634	40.0	41.7	
43 trans-1,2-Dichloroethene	61	9.394	9.394	0.000	93	656524	40.0	41.2	
44 Hexane	41	9.820	9.820	0.000	85	673435	40.0	41.6	
45 1,1-Dichloroethane	63	10.264	10.264	0.000	99	878856	40.0	41.3	
47 Vinyl acetate	43	10.295	10.295	0.000	100	1923681	40.0	42.0	
48 2-Butanone (MEK)	72	11.134	11.134	0.000	93	238357	40.0	41.8	
51 cis-1,2-Dichloroethene	96	11.560	11.560	0.000	95	444828	40.0	41.5	
52 Ethyl acetate	43	11.584	11.584	0.000	96	1490039	40.0	40.2	
53 Chloroform	83	11.925	11.925	0.000	95	935835	40.0	41.3	
54 Tetrahydrofuran	42	12.357	12.357	0.000	92	847499	40.0	40.6	
55 1,1,1-Trichloroethane	97	12.868	12.868	0.000	96	1012127	40.0	40.6	
56 Cyclohexane	84	13.057	13.057	0.000	91	604960	40.0	42.5	
58 Isooctane	57	13.355	13.355	0.000	97	3311339	40.0	41.8	
59 Carbon tetrachloride	117	13.452	13.452	0.000	98	1131603	40.0	40.9	
60 n-Butanol	56	13.458	13.458	0.000	68	654095	40.0	42.0	
61 1,2-Dichloroethane	62	13.598	13.598	0.000	96	753478	40.0	41.1	
63 Benzene	78	13.726	13.726	0.000	98	1499303	40.0	40.8	
64 n-Heptane	43	13.890	13.890	0.000	90	1464961	40.0	41.5	
65 Trichloroethene	130	15.119	15.119	0.000	98	723293	40.0	41.0	
66 1,2-Dichloropropane	76	15.423	15.423	0.000	87	248489	40.0	42.1	
67 Methyl methacrylate	69	15.581	15.581	0.000	87	620593	40.0	44.1	
68 Dichlorobromomethane	85	15.886	15.886	0.000	97	748280	40.0	40.9	
69 1,4-Dioxane	88	15.898	15.898	0.000	72	396866	40.0	39.3	
70 Dibromomethane	174	15.940	15.940	0.000	96	633535	40.0	38.9	
71 4-Methyl-2-pentanone (MIBK	43	16.731	16.731	0.000	97	2328216	40.0	42.2	
72 cis-1,3-Dichloropropene	75	17.108	17.108	0.000	98	1108591	40.0	41.6	
73 n-Octane	43	17.790	17.790	0.000	95	2345426	40.0	39.6	
75 Toluene	91	17.930	17.930	0.000	93	2098663	40.0	40.6	
76 trans-1,3-Dichloropropene	75	18.209	18.209	0.000	96	1037761	40.0	40.6	
77 1,1,2-Trichloroethane	97	18.550	18.550	0.000	98	687957	40.0	39.2	
78 2-Hexanone	58	18.672	18.672	0.000	89	1149484	40.0	43.2	
80 Tetrachloroethene	166	19.438	19.438	0.000	96	1087192	40.0	38.3	
81 Chlorodibromomethane	129	19.663	19.663	0.000	98	1456858	40.0	39.9	
82 Ethylene Dibromide	107	20.114	20.114	0.000	98	1148602	40.0	39.7	
83 Chlorobenzene	112	21.111	21.111	0.000	92	1845685	40.0	38.5	
84 n-Nonane	43	21.178	21.178	0.000	94	2563100	40.0	43.1	
86 Ethylbenzene	91	21.288	21.288	0.000	99	3091733	40.0	40.5	
87 m-Xylene & p-Xylene	91	21.470	21.470	0.000	99	4832666	80.0	81.7	
88 o-Xylene	91	22.371	22.371	0.000	98	2436671	40.0	41.4	
89 Styrene	104	22.401	22.401	0.000	97	1992854	40.0	43.9	
90 Bromoform	173	22.967	22.967	0.000	96	1478670	40.0	41.0	
92 Isopropylbenzene	120	23.155	23.155	0.000	96	936123	40.0	41.6	
93 1,1,2,2-Tetrachloroethane	83	23.350	23.350	0.000	99	1642598	40.0	39.8	
97 1,2,3-Trichloropropane	110	23.654	23.654	0.000	95	503467	40.0	39.3	
99 N-Propylbenzene	91	23.995	23.995	0.000	98	4039212	40.0	41.6	
101 n-Decane	57	24.013	24.013	0.000	85	2502828	40.0	43.7	
102 4-Ethyltoluene	120	24.232	24.232	0.000	99	1057745	40.0	42.7	
103 2-Chlorotoluene	126	24.305	24.305	0.000	98	821357	40.0	39.4	
104 1,3,5-Trimethylbenzene	120	24.330	24.330	0.000	92	1447543	40.0	39.7	
105 Alpha Methyl Styrene	118	24.907	24.907	0.000	87	1537402	40.0	44.9	
106 tert-Butylbenzene	91	25.060	25.060	0.000	93	1948773	40.0	39.0	
107 1,2,4-Trimethylbenzene	120	25.126	25.126	0.000	98	1428400	40.0	43.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.510	25.510	0.000	99	4405699	40.0	41.8	
109 4-Isopropyltoluene	119	25.784	25.784	0.000	98	3774922	40.0	42.0	
110 1,3-Dichlorobenzene	146	25.893	25.893	0.000	99	1901187	40.0	42.5	
111 1,4-Dichlorobenzene	146	26.088	26.088	0.000	94	1889259	40.0	41.8	
113 Benzyl chloride	91	26.258	26.258	0.000	98	2697485	32.0	36.1	
114 Undecane	57	26.459	26.459	0.000	91	2819081	40.0	44.6	
115 n-Butylbenzene	92	26.611	26.611	0.000	97	1866309	40.0	45.2	
116 1,2-Dichlorobenzene	146	26.818	26.818	0.000	95	1782817	40.0	42.0	
118 Dodecane	57	28.637	28.637	0.000	91	2245044	40.0	47.9	
119 1,2,4-Trichlorobenzene	180	30.133	30.133	0.000	94	1220384	40.0	44.3	
120 Hexachlorobutadiene	225	30.498	30.498	0.000	97	1126481	40.0	41.0	
121 Naphthalene	128	30.583	30.583	0.000	99	3480776	40.0	43.4	
122 1,2,3-Trichlorobenzene	180	31.101	31.101	0.000	96	1037830	40.0	43.5	
A 139 C6 Range	1	9.881	(9.617-10.145)		0	3442406	40.0	38.7	
A 146 Total VOC as Hexane	1	16.271	(3.862-28.679)		0	374726541	40.0	4217.2	
A 145 Nonmethane Organic Compound	1	16.271	(3.862-28.679)		0	374726541	40.0	4217.2	
A 147 TVOC as Toluene	1	16.558	(3.679-29.436)		0	378356354	40.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.558	(3.679-29.436)		0	378356354	40.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	2671976	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.703)		0	11168932	NC	NC	
S 150 Xylenes, Total	91				0		120.0	123.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VACORPIC40_00572	Amount Added: 250.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

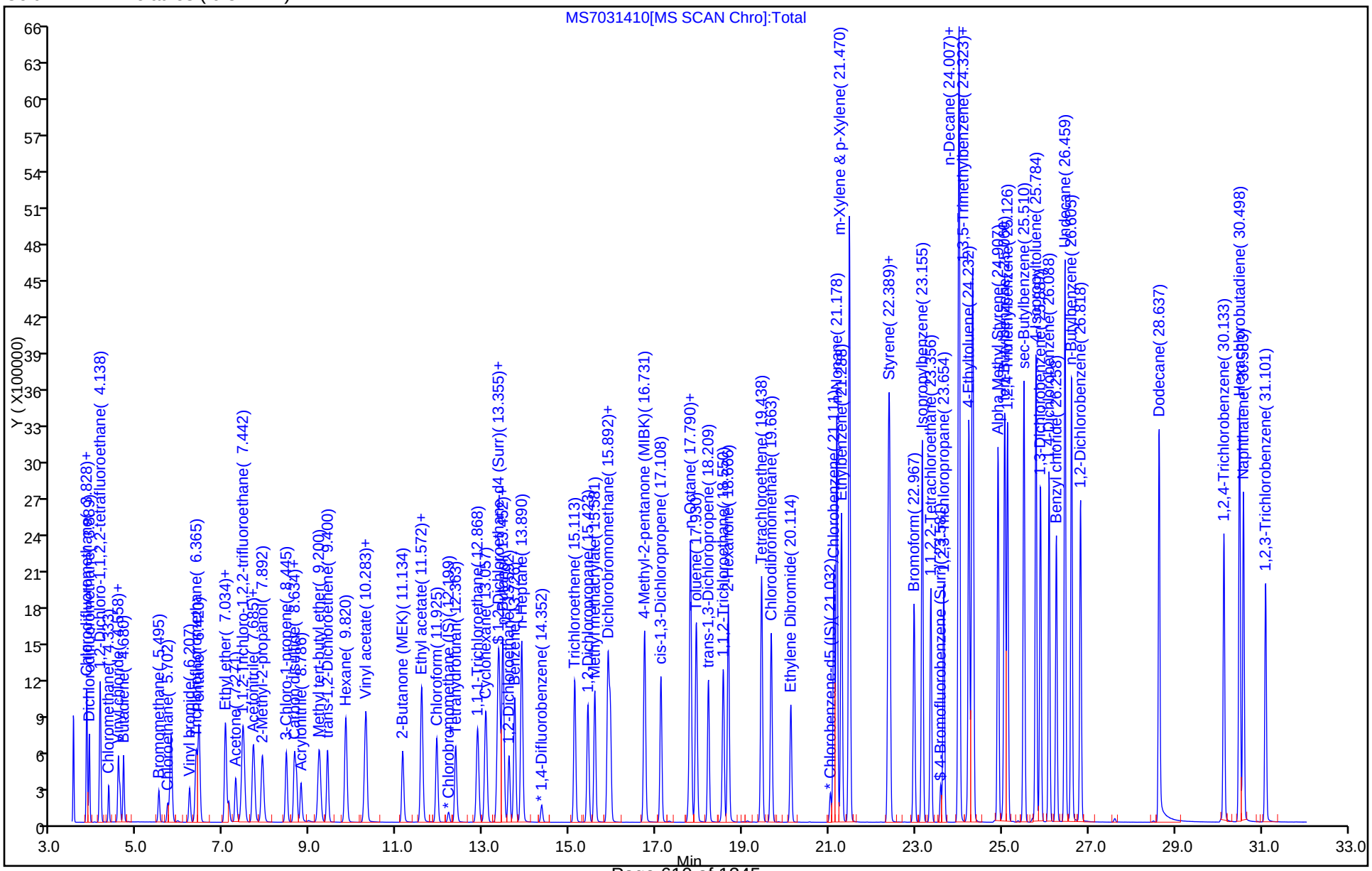
Report Date: 15-Mar-2018 11:13:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031410.D

Injection Date:	14-Mar-2018 23:44:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 40ppbv			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:13:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031410.D

Injection Date: 14-Mar-2018 23:44:30 Instrument ID: ATMS7

Lims ID: IC 40ppbv

Client ID:

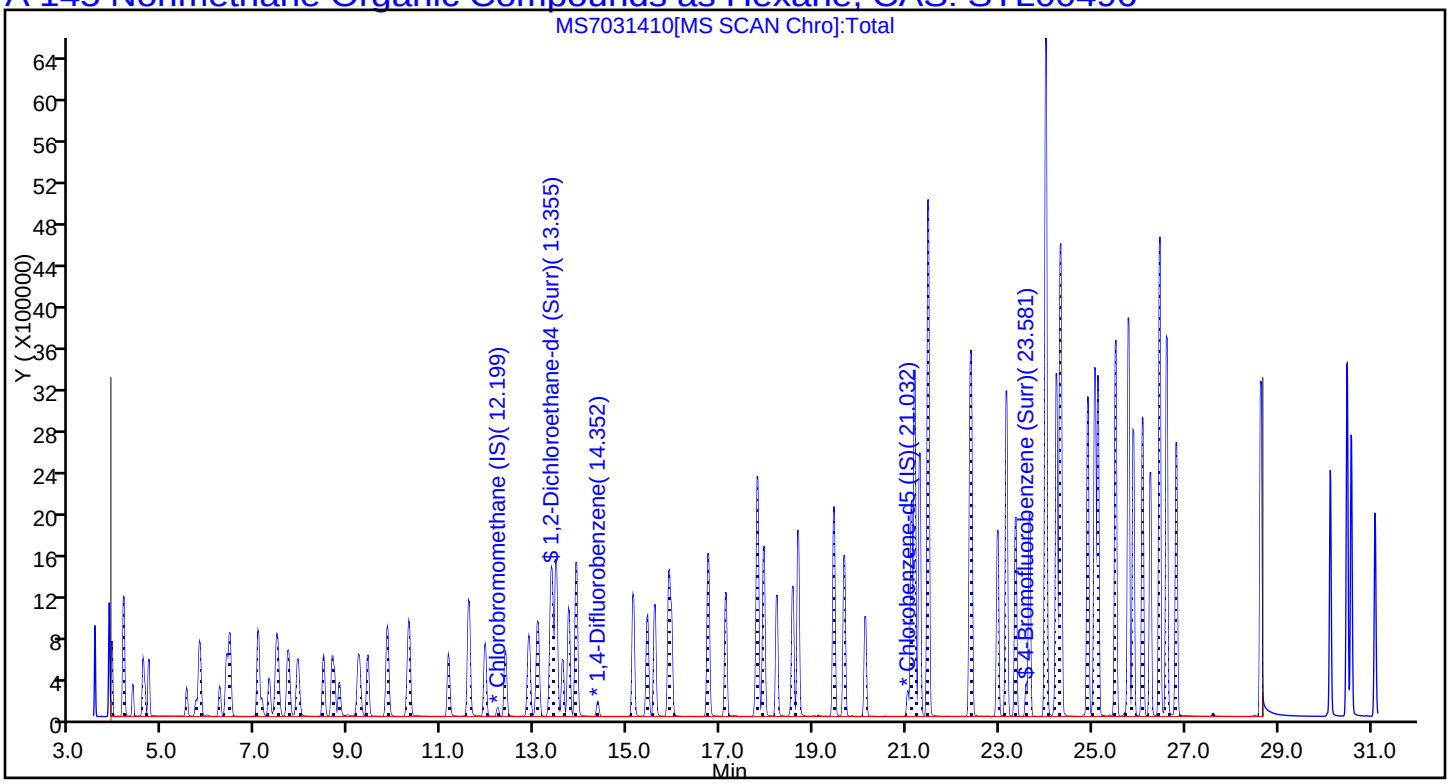
Operator ID: LHS ALS Bottle#: 2 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031411.D
Lims ID: IC 60ppbv
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 15-Mar-2018 00:39:30 ALS Bottle#: 2 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 9 60.0ppbv
Misc. Info.: 375 mL w/ 40 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:54 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: phanthasena Date: 15-Mar-2018 17:02:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.193	12.199	-0.006	95	49016	4.00	4.00	
*	2 1,4-Difluorobenzene	114	14.346	14.352	-0.006	96	216311	4.00	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.020	21.032	-0.012	88	235680	4.00	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.391	13.397	-0.006	95	91069	4.00	4.46	
$	5 Toluene-d8 (Surr)	100	17.747	17.753	-0.006	98	153630	4.00	4.08	
$	6 4-Bromofluorobenzene (Surr	95	23.575	23.581	-0.006	89	180887	4.00	4.13	
	11 Propene	41	3.816	3.822	-0.006	97	641717	60.0	54.3	
	12 Chlorodifluoromethane	51	3.828	3.834	-0.006	92	1156377	60.0	53.6	
	13 Dichlorodifluoromethane	85	3.883	3.889	-0.006	98	934751	60.0	47.3	
	14 1,2-Dichloro-1,1,2,2-tetra	135	4.132	4.138	-0.006	96	954532	60.0	53.6	
	16 Chloromethane	50	4.333	4.333	0.000	99	578043	60.0	54.6	
	17 Butane	43	4.552	4.558	-0.006	85	1008548	60.0	55.9	
	18 Vinyl chloride	62	4.588	4.594	-0.006	98	529539	60.0	56.8	
	19 Butadiene	39	4.674	4.680	-0.006	96	535766	60.0	56.8	
	21 Bromomethane	94	5.489	5.495	-0.006	99	436235	60.0	61.6	
	22 Chloroethane	64	5.696	5.696	0.000	76	324490	60.0	60.4	
	25 Vinyl bromide	106	6.201	6.207	-0.006	99	512288	60.0	59.6	
	26 Trichlorofluoromethane	101	6.359	6.359	0.000	98	1543928	60.0	57.1	
	27 Pentane	43	6.420	6.426	-0.006	95	1635412	60.0	59.5	
	29 Ethyl ether	74	7.028	7.034	-0.006	41	322133	60.0	62.4	
	31 Acrolein	56	7.113	7.113	0.000	82	364600	60.0	61.6	
	32 Acetone	43	7.271	7.271	0.000	99	1303275	60.0	56.6	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.436	7.448	-0.012	97	1307807	60.0	58.8	
	34 1,1-Dichloroethene	61	7.667	7.673	-0.006	92	1182309	60.0	60.4	
	35 Acetonitrile	41	7.709	7.709	0.000	99	777284	60.0	63.4	
	36 2-Methyl-2-propanol	59	7.898	7.892	0.006	90	2221117	60.0	61.6	
	38 3-Chloro-1-propene	41	8.439	8.445	-0.006	91	1299024	60.0	61.9	
	39 Methylene Chloride	49	8.628	8.634	-0.006	93	1052115	60.0	56.0	
	40 Carbon disulfide	76	8.670	8.677	-0.006	97	1370744	60.0	59.6	
	41 Acrylonitrile	53	8.780	8.786	-0.006	95	722993	60.0	59.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.200	9.200	0.000	94	2024238	60.0	62.2	
43 trans-1,2-Dichloroethene	61	9.394	9.394	0.000	93	1069552	60.0	61.1	
44 Hexane	41	9.814	9.820	-0.006	85	1077000	60.0	60.5	
45 1,1-Dichloroethane	63	10.258	10.264	-0.006	99	1434725	60.0	61.4	
47 Vinyl acetate	43	10.289	10.295	-0.006	100	3135686	60.0	62.3	
48 2-Butanone (MEK)	72	11.134	11.134	0.000	93	397180	60.0	63.4	
51 cis-1,2-Dichloroethene	96	11.560	11.560	0.000	95	724384	60.0	61.5	
52 Ethyl acetate	43	11.585	11.584	0.000	96	2421826	60.0	59.5	
53 Chloroform	83	11.919	11.925	-0.006	95	1540054	60.0	61.9	
54 Tetrahydrofuran	42	12.357	12.357	0.000	92	1376538	60.0	60.0	
55 1,1,1-Trichloroethane	97	12.862	12.868	-0.006	96	1635207	60.0	59.8	
56 Cyclohexane	84	13.057	13.057	0.000	92	988698	60.0	62.9	
58 Isooctane	57	13.349	13.355	-0.006	97	5387749	60.0	61.7	
59 Carbon tetrachloride	117	13.446	13.452	-0.006	98	1806873	60.0	59.1	
60 n-Butanol	56	13.452	13.458	-0.006	70	1107569	60.0	64.7	
61 1,2-Dichloroethane	62	13.592	13.598	-0.006	96	1214459	60.0	59.9	
63 Benzene	78	13.726	13.726	0.000	98	2461135	60.0	60.7	
64 n-Heptane	43	13.884	13.890	-0.006	90	2355798	60.0	60.5	
65 Trichloroethene	130	15.113	15.119	-0.006	98	1159521	60.0	59.5	
66 1,2-Dichloropropane	76	15.417	15.423	-0.006	87	401984	60.0	61.7	
67 Methyl methacrylate	69	15.575	15.581	-0.006	87	1037670	60.0	66.9	
68 Dichlorobromomethane	85	15.880	15.886	-0.006	98	1215377	60.0	60.2	
69 1,4-Dioxane	88	15.892	15.898	-0.006	73	639940	60.0	57.3	
70 Dibromomethane	174	15.934	15.940	-0.006	97	1021004	60.0	56.9	
71 4-Methyl-2-pentanone (MIBK	43	16.725	16.731	-0.006	96	3809352	60.0	62.6	
72 cis-1,3-Dichloropropene	75	17.102	17.108	-0.006	98	1806881	60.0	61.5	
73 n-Octane	43	17.790	17.790	0.000	95	3719447	60.0	58.3	
75 Toluene	91	17.924	17.930	-0.006	93	3409185	60.0	59.7	
76 trans-1,3-Dichloropropene	75	18.203	18.209	-0.006	98	1692374	60.0	61.4	
77 1,1,2-Trichloroethane	97	18.544	18.550	-0.006	98	1111314	60.0	58.7	
78 2-Hexanone	58	18.666	18.672	-0.006	89	1862891	60.0	65.0	
80 Tetrachloroethene	166	19.432	19.438	-0.006	96	1716071	60.0	56.0	
81 Chlorodibromomethane	129	19.657	19.663	-0.006	98	2299726	60.0	58.3	
82 Ethylene Dibromide	107	20.108	20.114	-0.006	98	1837668	60.0	58.9	
83 Chlorobenzene	112	21.105	21.111	-0.006	92	2931559	60.0	56.7	
84 n-Nonane	43	21.172	21.178	-0.006	94	4044953	60.0	63.1	
86 Ethylbenzene	91	21.282	21.288	-0.006	99	4941870	60.0	59.9	
87 m-Xylene & p-Xylene	91	21.464	21.470	-0.006	99	7773862	120.0	121.9	
88 o-Xylene	91	22.365	22.371	-0.006	96	3893245	60.0	61.3	
89 Styrene	104	22.401	22.401	0.000	97	3178614	60.0	64.9	
90 Bromoform	173	22.961	22.967	-0.006	96	2319617	60.0	59.6	
92 Isopropylbenzene	120	23.149	23.155	-0.006	96	1466335	60.0	60.4	
93 1,1,2,2-Tetrachloroethane	83	23.350	23.350	0.000	99	2611511	60.0	58.6	
97 1,2,3-Trichloropropane	110	23.648	23.654	-0.006	96	787792	60.0	57.0	
99 N-Propylbenzene	91	23.989	23.995	-0.006	98	6385569	60.0	61.0	
101 n-Decane	57	24.007	24.013	-0.006	86	3942035	60.0	63.8	
102 4-Ethyltoluene	120	24.232	24.232	0.000	99	1662911	60.0	62.2	
103 2-Chlorotoluene	126	24.299	24.305	-0.006	97	1279099	60.0	56.9	
104 1,3,5-Trimethylbenzene	120	24.330	24.330	0.000	96	2265913	60.0	57.6	
105 Alpha Methyl Styrene	118	24.901	24.907	-0.006	86	2447515	60.0	66.3	
106 tert-Butylbenzene	91	25.060	25.060	0.000	92	3086357	60.0	57.3	
107 1,2,4-Trimethylbenzene	120	25.127	25.126	0.001	98	2172845	60.0	60.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.504	25.510	-0.006	99	6974716	60.0	61.4	
109 4-Isopropyltoluene	119	25.784	25.784	0.000	97	5949837	60.0	61.3	
110 1,3-Dichlorobenzene	146	25.887	25.893	-0.006	99	3006358	60.0	62.4	
111 1,4-Dichlorobenzene	146	26.088	26.088	0.000	93	2982984	60.0	61.2	
113 Benzyl chloride	91	26.252	26.258	-0.006	98	4364826	48.0	54.1	
114 Undecane	57	26.453	26.459	-0.006	92	4402112	60.0	64.6	
115 n-Butylbenzene	92	26.605	26.611	-0.006	98	2941889	60.0	66.1	
116 1,2-Dichlorobenzene	146	26.812	26.818	-0.006	94	2808982	60.0	61.4	
118 Dodecane	57	28.631	28.637	-0.006	90	3364803	60.0	66.5	
119 1,2,4-Trichlorobenzene	180	30.127	30.133	-0.006	94	1911210	60.0	64.4	
120 Hexachlorobutadiene	225	30.492	30.498	-0.006	98	1717292	60.0	58.0	
121 Naphthalene	128	30.584	30.583	0.001	99	5492785	60.0	63.4	
122 1,2,3-Trichlorobenzene	180	31.095	31.101	-0.006	95	1614865	60.0	62.7	
A 139 C6 Range	1	9.881	(9.617-10.145)		0	5531422	60.0	56.6	
A 145 Nonmethane Organic Compoun	1	16.271	(3.862-28.679)		0	594753811	60.0	6091.2	
A 146 Total VOC as Hexane	1	16.271	(3.862-28.679)		0	594753811	60.0	6091.2	
A 144 Total VOCs as Tetrachloroe	1	16.558	(3.679-29.436)		0	599693579	60.0	0	
A 147 TVOC as Toluene	1	16.558	(3.679-29.436)		0	599693579	60.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	3611473	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.703)		0	17701266	NC	NC	
S 150 Xylenes, Total	91				0		180.0	183.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VACORPIC40_00572	Amount Added: 375.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

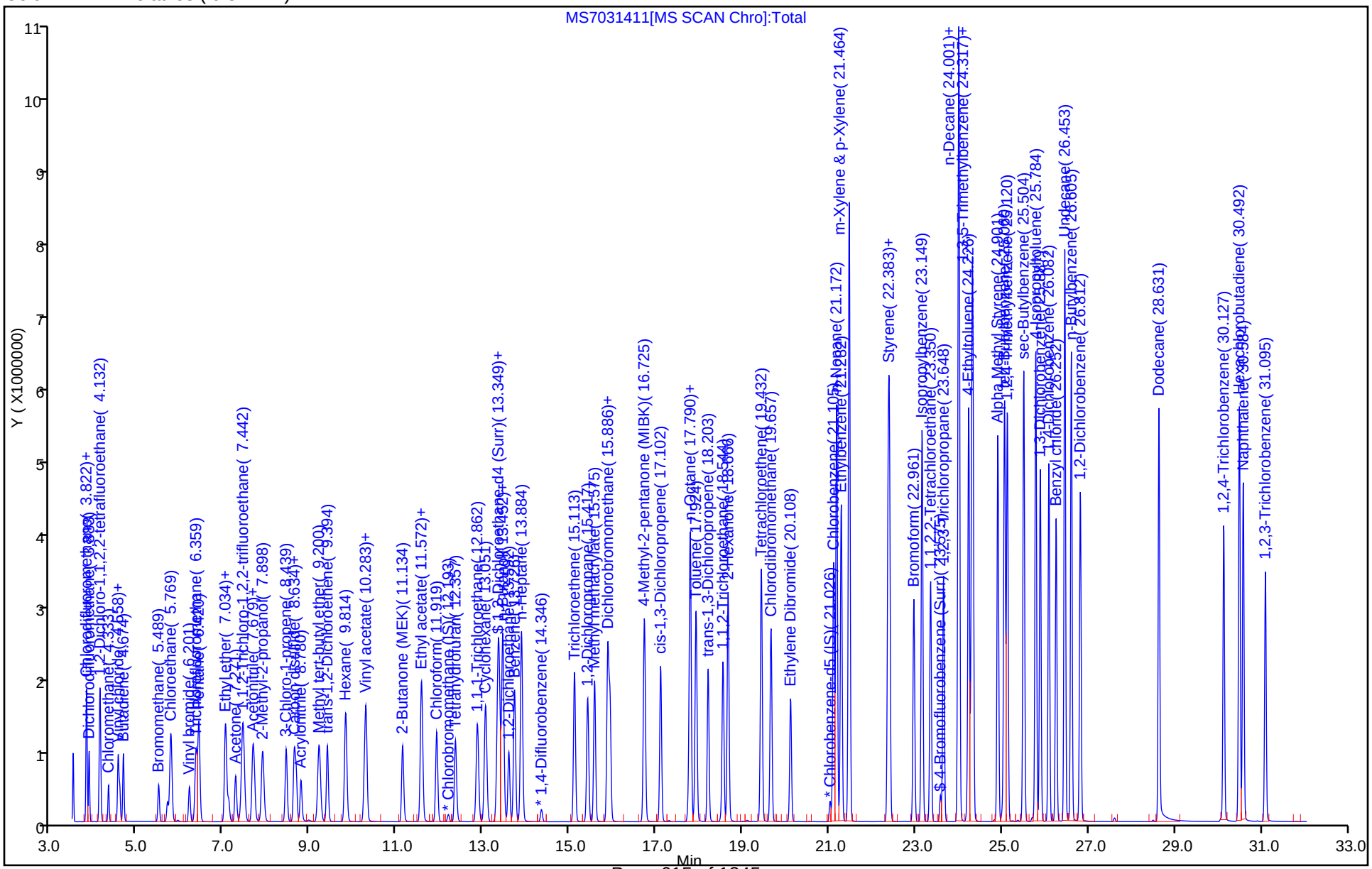
Report Date: 15-Mar-2018 11:13:56 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031411.D

Injection Date:	15-Mar-2018 00:39:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 60ppbv			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



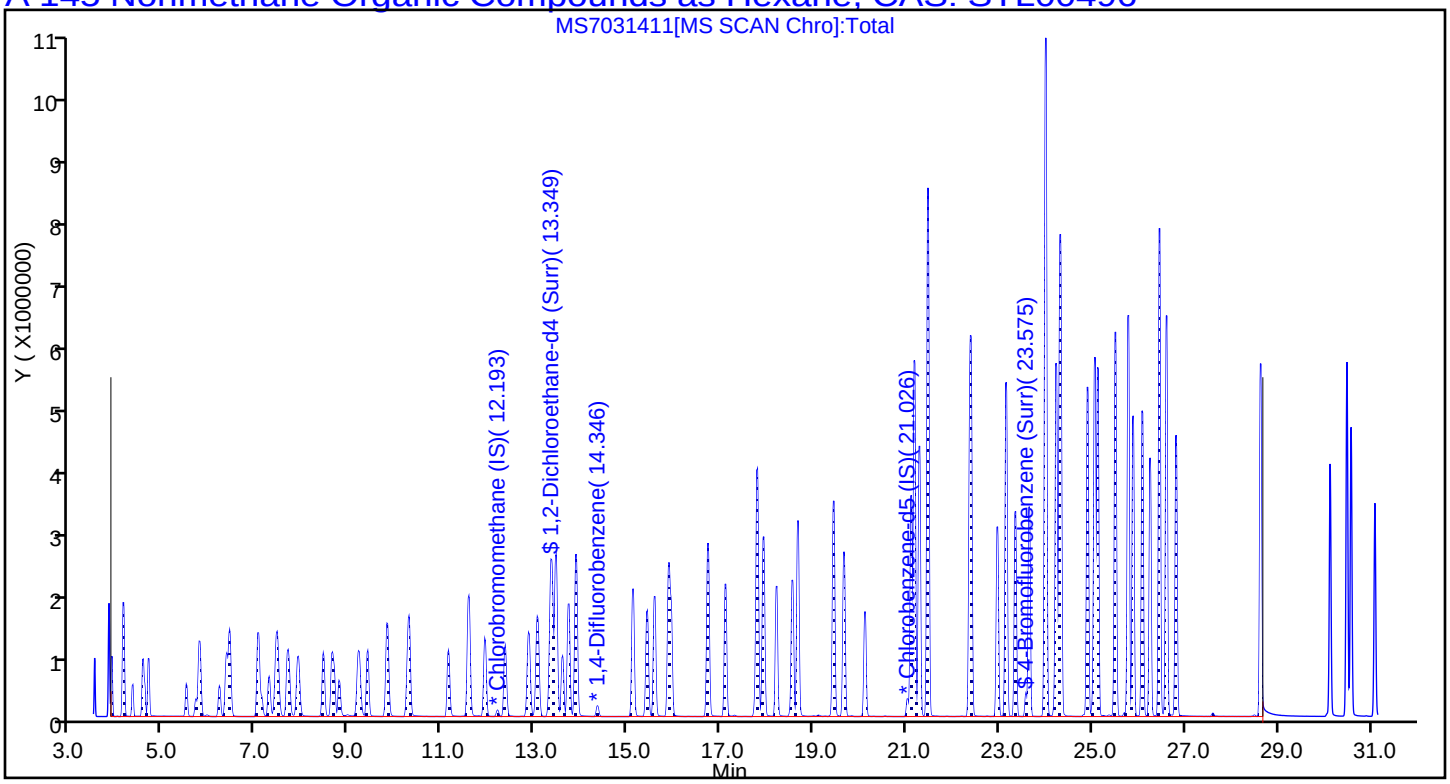
Report Date: 15-Mar-2018 11:13:56 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031411.D

Injection Date:	15-Mar-2018 00:39:30	Instrument ID:	ATMS7		
Lims ID:	IC 60ppbv				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D
Lims ID: IC 2ppbv
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Mar-2018 07:51:30 ALS Bottle#: 1 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 5 2.0ppbv
Misc. Info.: 500 mL w/ 1.0 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:58 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: leeh Date: 15-Mar-2018 08:36:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.156	12.199	-0.043	97	44839	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.310	14.352	-0.042	95	200728	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.996	21.032	-0.036	89	238112	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.355	13.397	-0.042	96	70001	4.00	3.70	
$ 5 Toluene-d8 (Surr)	100	17.711	17.753	-0.042	99	143723	4.00	4.11	
$ 6 4-Bromofluorobenzene (Surr	95	23.551	23.581	-0.030	90	177209	4.00	4.01	
11 Propene	41	3.797	3.822	-0.025	98	21774	2.00	2.02	
12 Chlorodifluoromethane	51	3.810	3.834	-0.024	93	39988	2.00	2.03	
13 Dichlorodifluoromethane	85	3.858	3.889	-0.031	98	31315	2.00	1.73	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.108	4.138	-0.030	92	31659	2.00	1.94	
16 Chloromethane	50	4.308	4.333	-0.025	99	19651	2.00	2.03	
17 Butane	43	4.521	4.558	-0.037	86	33310	2.00	2.02	
18 Vinyl chloride	62	4.564	4.594	-0.030	98	17483	2.00	2.05	
19 Butadiene	39	4.649	4.680	-0.031	95	17143	2.00	1.99	
21 Bromomethane	94	5.458	5.495	-0.037	98	13163	2.00	2.03	
22 Chloroethane	64	5.659	5.696	-0.037	75	9380	2.00	1.91	
25 Vinyl bromide	106	6.164	6.207	-0.043	98	15711	2.00	2.00	
26 Trichlorofluoromethane	101	6.322	6.359	-0.037	97	46977	2.00	1.90	
27 Pentane	43	6.383	6.426	-0.043	95	44213	2.00	1.76	
29 Ethyl ether	74	7.003	7.034	-0.031	33	9138	2.00	1.94	
31 Acrolein	56	7.107	7.113	-0.006	81	10523	2.00	1.94	
32 Acetone	43	7.253	7.271	-0.018	97	39837	2.00	1.89	
33 1,1,2-Trichloro-1,2,2-trif	101	7.399	7.448	-0.049	97	39332	2.00	1.93	
34 1,1-Dichloroethene	61	7.630	7.673	-0.043	93	32705	2.00	1.83	
35 Acetonitrile	41	7.703	7.709	-0.006	96	22539	2.00	2.01	
36 2-Methyl-2-propanol	59	7.855	7.892	-0.037	90	62371	2.00	1.89	
38 3-Chloro-1-propene	41	8.403	8.445	-0.042	92	33719	2.00	1.76	
39 Methylene Chloride	49	8.591	8.634	-0.043	95	29924	2.00	1.74	
40 Carbon disulfide	76	8.634	8.677	-0.042	97	40066	2.00	1.90	
41 Acrylonitrile	53	8.756	8.786	-0.030	94	22433	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.175	9.200	-0.025	94	56943	2.00	1.91	
43 trans-1,2-Dichloroethene	61	9.352	9.394	-0.042	94	29123	2.00	1.82	
44 Hexane	41	9.778	9.820	-0.042	85	28411	2.00	1.74	
45 1,1-Dichloroethane	63	10.209	10.264	-0.055	99	39419	2.00	1.84	
47 Vinyl acetate	43	10.258	10.295	-0.037	100	78773	2.00	1.71	
48 2-Butanone (MEK)	72	11.104	11.134	-0.030	96	10845	2.00	1.89	
51 cis-1,2-Dichloroethene	96	11.517	11.560	-0.043	98	20408	2.00	1.89	
52 Ethyl acetate	43	11.560	11.584	-0.024	95	69214	2.00	1.86	
53 Chloroform	83	11.876	11.925	-0.049	96	43509	2.00	1.91	
54 Tetrahydrofuran	42	12.339	12.357	-0.018	92	38111	2.00	1.82	
55 1,1,1-Trichloroethane	97	12.819	12.868	-0.049	97	47400	2.00	1.89	
56 Cyclohexane	84	13.014	13.057	-0.043	92	27461	2.00	1.88	
58 Isooctane	57	13.306	13.355	-0.049	97	147644	2.00	1.82	
59 Carbon tetrachloride	117	13.409	13.452	-0.043	98	52208	2.00	1.84	
60 n-Butanol	56	13.434	13.458	-0.024	71	37375	2.00	2.38	
61 1,2-Dichloroethane	62	13.555	13.598	-0.043	96	34914	2.00	1.86	
63 Benzene	78	13.677	13.726	-0.049	98	69355	2.00	1.84	
64 n-Heptane	43	13.841	13.890	-0.049	90	64700	2.00	1.79	
65 Trichloroethene	130	15.076	15.119	-0.043	98	34207	2.00	1.89	
66 1,2-Dichloropropane	76	15.381	15.423	-0.042	86	11447	2.00	1.89	
67 Methyl methacrylate	69	15.545	15.581	-0.036	88	28010	2.00	1.95	
68 Dichlorobromomethane	85	15.837	15.886	-0.049	97	35136	2.00	1.87	
69 1,4-Dioxane	88	15.861	15.898	-0.037	73	21173	2.00	2.04	
70 Dibromomethane	174	15.892	15.940	-0.048	95	32114	2.00	1.93	
71 4-Methyl-2-pentanone (MIBK	43	16.701	16.731	-0.030	97	115316	2.00	2.04	
72 cis-1,3-Dichloropropene	75	17.072	17.108	-0.036	98	50944	2.00	1.87	
73 n-Octane	43	17.753	17.790	-0.037	94	106553	2.00	1.65	
75 Toluene	91	17.887	17.930	-0.043	92	99271	2.00	1.87	
76 trans-1,3-Dichloropropene	75	18.173	18.209	-0.036	97	49147	2.00	1.77	
77 1,1,2-Trichloroethane	97	18.514	18.550	-0.036	99	32002	2.00	1.67	
78 2-Hexanone	58	18.647	18.672	-0.025	90	57748	2.00	1.99	
80 Tetrachloroethene	166	19.402	19.438	-0.036	96	55969	2.00	1.81	
81 Chlorodibromomethane	129	19.627	19.663	-0.036	98	69528	2.00	1.75	
82 Ethylene Dibromide	107	20.083	20.114	-0.031	98	57109	2.00	1.81	
83 Chlorobenzene	112	21.075	21.111	-0.036	93	96280	2.00	1.84	
84 n-Nonane	43	21.148	21.178	-0.030	94	130307	2.00	2.01	
86 Ethylbenzene	91	21.257	21.288	-0.031	98	158059	2.00	1.90	
87 m-Xylene & p-Xylene	91	21.434	21.470	-0.036	98	247018	4.00	3.83	
88 o-Xylene	91	22.340	22.371	-0.031	98	122790	2.00	1.91	
89 Styrene	104	22.371	22.401	-0.030	97	102889	2.00	2.08	
90 Bromoform	173	22.936	22.967	-0.031	97	70722	2.00	1.80	
92 Isopropylbenzene	120	23.125	23.155	-0.030	97	47695	2.00	1.94	
93 1,1,2,2-Tetrachloroethane	83	23.320	23.350	-0.030	99	85063	2.00	1.89	
97 1,2,3-Trichloropropane	110	23.624	23.654	-0.030	94	26072	2.00	1.87	
99 N-Propylbenzene	91	23.971	23.995	-0.024	98	215927	2.00	2.04	
101 n-Decane	57	23.983	24.013	-0.030	85	118397	2.00	1.90	
102 4-Ethyltoluene	120	24.208	24.232	-0.024	99	55076	2.00	2.04	
103 2-Chlorotoluene	126	24.275	24.305	-0.030	98	44143	2.00	1.94	
104 1,3,5-Trimethylbenzene	120	24.299	24.330	-0.031	93	80838	2.00	2.03	
105 Alpha Methyl Styrene	118	24.883	24.907	-0.024	88	77096	2.00	2.07	
106 tert-Butylbenzene	91	25.035	25.060	-0.025	93	100573	2.00	1.85	
107 1,2,4-Trimethylbenzene	120	25.102	25.126	-0.024	97	77403	2.00	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.479	25.510	-0.031	98	228649	2.00	1.99	
109 4-Isopropyltoluene	119	25.759	25.784	-0.025	98	197312	2.00	2.01	
110 1,3-Dichlorobenzene	146	25.863	25.893	-0.030	98	98166	2.00	2.02	
111 1,4-Dichlorobenzene	146	26.063	26.088	-0.025	94	98802	2.00	2.01	
113 Benzyl chloride	91	26.234	26.258	-0.024	98	117908	1.60	1.45	
114 Undecane	57	26.440	26.459	-0.019	92	103870	2.00	1.51	
115 n-Butylbenzene	92	26.593	26.611	-0.018	99	91232	2.00	2.03	
116 1,2-Dichlorobenzene	146	26.793	26.818	-0.025	95	96161	2.00	2.08	
118 Dodecane	57	28.649	28.637	0.012	91	92901	2.00	1.82	
119 1,2,4-Trichlorobenzene	180	30.121	30.133	-0.012	95	61713	2.00	2.06	
120 Hexachlorobutadiene	225	30.474	30.498	-0.024	97	61000	2.00	2.04	
121 Naphthalene	128	30.571	30.583	-0.012	99	210291	2.00	2.40	
122 1,2,3-Trichlorobenzene	180	31.082	31.101	-0.019	96	64396	2.00	2.48	
A 139 C6 Range	1	9.845	(9.617-10.145)		0	147471	2.00	1.65	
A 146 Total VOC as Hexane	1	16.257	(3.862-28.679)		0	18729134	2.00	209.7	
A 145 Nonmethane Organic Compound	1	16.257	(3.862-28.679)		0	18729134	2.00	209.7	
A 147 TVOC as Toluene	1	16.314	(3.679-29.436)		0	19084428	2.00	0	
A 144 Total VOCs as Tetrachloroe	1	16.314	(3.679-29.436)		0	19084428	2.00	0	
A 143 Toluene Range	1	17.320	(17.100-17.400)		0	1825	NC	NC	
A 149 PCE Range	1	19.475	(19.247-19.703)		0	546901	NC	NC	
S 150 Xylenes, Total	91				0		6.00	5.75	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VACORPIC1.0_00145	Amount Added: 500.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

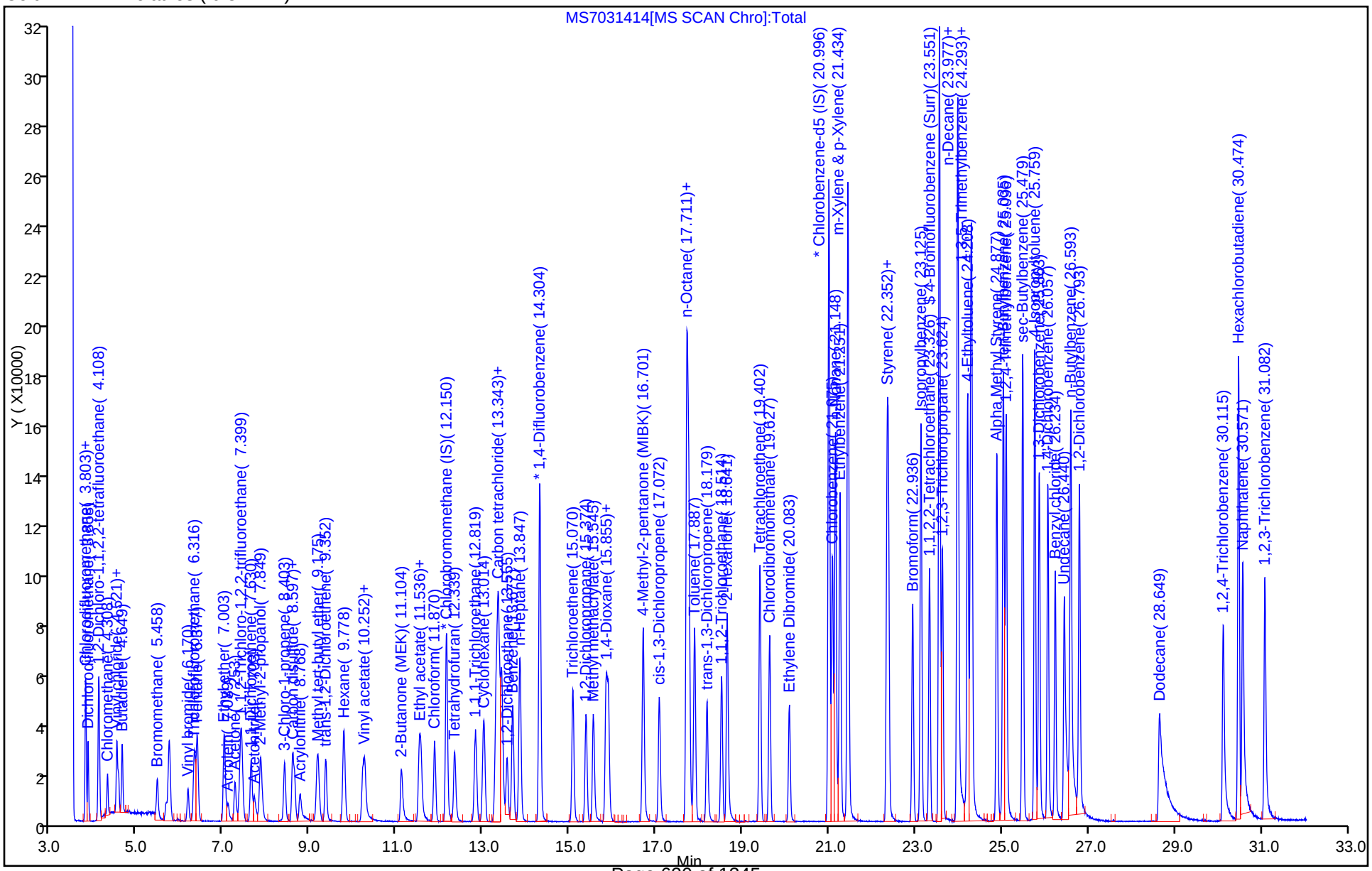
Report Date: 15-Mar-2018 11:14:00 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Injection Date:	15-Mar-2018 07:51:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	IC 2ppbv			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:14:00 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Injection Date: 15-Mar-2018 07:51:30 Instrument ID: ATMS7

Lims ID: IC 2ppbv

Client ID:

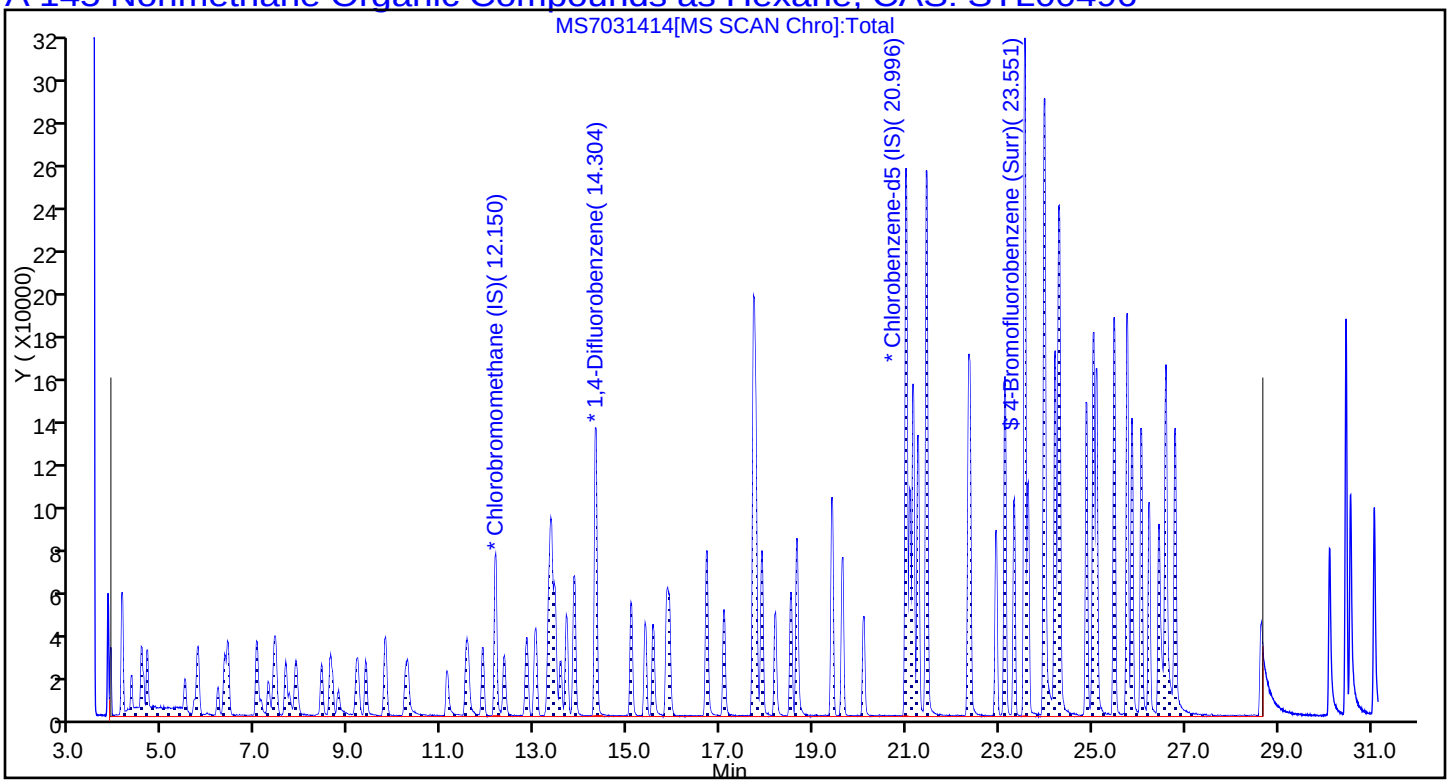
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID (1): CCVIS 320-216210/2 Instrument ID (1): ATMS7

GC Column (1): RTX-Volatiles ID: 0.32(mm) Date Analyzed (1): 04/04/2018 10:39

ANALYTE	RT	RESOLUTION (%)
Dichlorodifluoromethane	3.90	100.0
Chloromethane	4.35	100.0
Vinyl chloride	4.61	100.0
Butadiene	4.69	100.0
Bromomethane	5.51	100.0
Chloroethane	5.71	100.0
Trichlorofluoromethane	6.38	100.0
Acetone	7.30	100.0
1,1,2-Trichloro-1,2,2-trifluoroethane	7.46	100.0
1,1-Dichloroethene	7.70	100.0
Methylene Chloride	8.66	100.0
Carbon disulfide	8.71	100.0
Methyl tert-butyl ether	9.23	100.0
trans-1,2-Dichloroethene	9.43	100.0
1,1-Dichloroethane	10.29	100.0
Vinyl acetate	10.32	100.0
2-Butanone (MEK)	11.17	100.0
cis-1,2-Dichloroethene	11.59	100.0
Chloroform	11.96	100.0
1,1,1-Trichloroethane	12.90	100.0
1,2-Dichloroethane-d4 (Surr)	13.43	100.0
Carbon tetrachloride	13.49	100.0
1,2-Dichloroethane	13.63	100.0
Benzene	13.76	100.0
Trichloroethene	15.15	100.0
1,2-Dichloropropane	15.45	100.0
Bromodichloromethane	15.92	100.0
1,4-Dioxane	15.93	100.0
4-Methyl-2-pentanone (MIBK)	16.77	100.0
cis-1,3-Dichloropropene	17.15	100.0
Toluene-d8 (Surr)	17.79	100.0
Toluene	17.96	100.0
trans-1,3-Dichloropropene	18.24	100.0
1,1,2-Trichloroethane	18.59	100.0
2-Hexanone	18.70	100.0
Tetrachloroethene	19.48	100.0
Dibromochloromethane	19.69	100.0
1,2-Dibromoethane (EDB)	20.15	100.0
Chlorobenzene	21.15	100.0
Ethylbenzene	21.32	100.0
m-Xylene & p-Xylene	21.50	100.0
o-Xylene	22.41	100.0
Styrene	22.44	100.0
Bromoform	23.00	100.0
1,1,2,2-Tetrachloroethane	23.39	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID (1): CCVIS 320-216210/2 Instrument ID (1): ATMS7

GC Column (1): RTX-Volatiles ID: 0.32(mm) Date Analyzed (1): 04/04/2018 10:39

ANALYTE	RT	RESOLUTION (%)
4-Bromofluorobenzene (Surr)	23.62	100.0
4-Ethyltoluene	24.26	100.0
1,3,5-Trimethylbenzene	24.37	100.0
1,2,4-Trimethylbenzene	25.16	100.0
1,3-Dichlorobenzene	25.92	100.0
1,4-Dichlorobenzene	26.12	100.0
Benzyl chloride	26.29	100.0
1,2-Dichlorobenzene	26.85	100.0
1,2,4-Trichlorobenzene	30.16	100.0
Hexachlorobutadiene	30.52	100.0
Naphthalene	30.61	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID (1): CCVIS 320-216406/2 Instrument ID (1): ATMS7

GC Column (1): RTX-Volatiles ID: 0.32(mm) Date Analyzed (1): 04/05/2018 11:59

ANALYTE	RT	RESOLUTION (%)
Dichlorodifluoromethane	3.90	100.0
Chloromethane	4.35	100.0
Vinyl chloride	4.61	100.0
Butadiene	4.69	100.0
Bromomethane	5.51	100.0
Chloroethane	5.72	100.0
Trichlorofluoromethane	6.38	100.0
Acetone	7.30	100.0
1,1,2-Trichloro-1,2,2-trifluoroethane	7.46	100.0
1,1-Dichloroethene	7.69	100.0
Methylene Chloride	8.65	100.0
Carbon disulfide	8.70	100.0
Methyl tert-butyl ether	9.22	100.0
trans-1,2-Dichloroethene	9.41	100.0
1,1-Dichloroethane	10.28	100.0
Vinyl acetate	10.31	100.0
2-Butanone (MEK)	11.15	100.0
cis-1,2-Dichloroethene	11.58	100.0
Chloroform	11.94	100.0
1,1,1-Trichloroethane	12.88	100.0
1,2-Dichloroethane-d4 (Surr)	13.41	100.0
Carbon tetrachloride	13.46	100.0
1,2-Dichloroethane	13.61	100.0
Benzene	13.74	100.0
Trichloroethene	15.13	100.0
1,2-Dichloropropane	15.44	100.0
Bromodichloromethane	15.89	100.0
1,4-Dioxane	15.91	100.0
4-Methyl-2-pentanone (MIBK)	16.74	100.0
cis-1,3-Dichloropropene	17.12	100.0
Toluene-d8 (Surr)	17.77	100.0
Toluene	17.94	100.0
trans-1,3-Dichloropropene	18.22	100.0
1,1,2-Trichloroethane	18.56	100.0
2-Hexanone	18.68	100.0
Tetrachloroethene	19.45	100.0
Dibromochloromethane	19.68	100.0
1,2-Dibromoethane (EDB)	20.13	100.0
Chlorobenzene	21.12	100.0
Ethylbenzene	21.30	100.0
m-Xylene & p-Xylene	21.48	100.0
o-Xylene	22.38	100.0
Styrene	22.41	100.0
Bromoform	22.98	100.0
1,1,2,2-Tetrachloroethane	23.36	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID (1): CCVIS 320-216406/2 Instrument ID (1): ATMS7

GC Column (1): RTX-Volatiles ID: 0.32(mm) Date Analyzed (1): 04/05/2018 11:59

ANALYTE	RT	RESOLUTION (%)
4-Bromofluorobenzene (Surr)	23.59	100.0
4-Ethyltoluene	24.24	100.0
1,3,5-Trimethylbenzene	24.34	100.0
1,2,4-Trimethylbenzene	25.14	100.0
1,3-Dichlorobenzene	25.90	100.0
1,4-Dichlorobenzene	26.10	100.0
Benzyl chloride	26.27	100.0
1,2-Dichlorobenzene	26.83	100.0
1,2,4-Trichlorobenzene	30.15	100.0
Hexachlorobutadiene	30.51	100.0
Naphthalene	30.60	100.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: ICV 320-212907/15 Calibration Date: 03/15/2018 09:01

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7031415.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.9637	0.6833		14.2	20.0	-29.1	30.0
Dichlorodifluoromethane	Ave	1.612	1.399		17.4	20.0	-13.2	30.0
Dichlorotetrafluoroethane(F-114)	Ave	1.454	1.267		17.4	20.0	-12.9	30.0
Chloromethane	Ave	0.8644	0.7216		16.7	20.0	-16.5	30.0
Vinyl chloride	Ave	0.7613	0.6304		16.6	20.0	-17.2	30.0
Butadiene	Ave	0.7696	0.6558		17.0	20.0	-14.8	30.0
Bromomethane	Ave	0.5779	0.5638		19.5	20.0	-2.4	30.0
Chloroethane	Ave	0.4386	0.4004		18.3	20.0	-8.7	30.0
Trichlorofluoromethane	Ave	2.208	1.917		17.4	20.0	-13.2	30.0
Acetone	Ave	1.879	1.796		19.1	20.0	-4.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.814	1.636		18.0	20.0	-9.8	30.0
1,1-Dichloroethene	Ave	1.598	1.488		18.6	20.0	-6.9	30.0
tert-Butyl alcohol (TBA)	Ave	2.944	2.681		18.2	20.0	-8.9	30.0
Methylene Chloride	Ave	1.534	1.311		17.1	20.0	-14.6	30.0
Carbon disulfide	Ave	1.877	2.209		23.5	20.0	17.7	30.0
Acrylonitrile	Ave	0.997	0.9395		18.9	20.0	-5.7	30.0
Methyl tert-butyl ether	Ave	2.656	2.612		19.7	20.0	-1.6	30.0
trans-1,2-Dichloroethene	Ave	1.428	1.496		21.0	20.0	4.8	30.0
Hexane	Ave	1.453	1.482		20.4	20.0	2.0	30.0
1,1-Dichloroethane	Ave	1.906	1.773		18.6	20.0	-7.0	30.0
Vinyl acetate	Ave	4.105	3.591		17.5	20.0	-12.5	30.0
2-Butanone (MEK)	Ave	0.5112	0.4993		19.5	20.0	-2.3	30.0
cis-1,2-Dichloroethene	Ave	0.9609	0.9179		19.1	20.0	-4.5	30.0
Ethyl acetate	Ave	3.322	3.314		19.9	20.0	-0.3	30.0
Chloroform	Ave	2.031	1.902		18.7	20.0	-6.4	30.0
Tetrahydrofuran	Ave	1.872	1.739		18.6	20.0	-7.1	30.0
1,1,1-Trichloroethane	Ave	2.233	2.024		18.1	20.0	-9.4	30.0
Cyclohexane	Ave	0.2909	0.3052		21.0	20.0	4.9	30.0
Carbon tetrachloride	Ave	0.5652	0.5320		18.8	20.0	-5.9	30.0
1,2-Dichloroethane	Ave	0.3747	0.3684		19.7	20.0	-1.7	30.0
Benzene	Ave	0.7502	0.7286		19.4	20.0	-2.9	30.0
n-Heptane	Ave	0.7206	0.7030		19.5	20.0	-2.4	30.0
Trichloroethene	Ave	0.3601	0.3490		19.4	20.0	-3.1	30.0
1,2-Dichloropropane	Ave	0.1206	0.1203		19.9	20.0	-0.3	30.0
Bromodichloromethane	Ave	0.3735	0.3704		19.8	20.0	-0.8	30.0
1,4-Dioxane	Ave	0.2064	0.1820		17.6	20.0	-11.8	30.0
NMOC as Hexane	Ave	850.6	698.3		1750	20.0	-17.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.126	0.9900		17.6	20.0	-12.1	30.0
cis-1,3-Dichloropropene	Ave	0.5435	0.4644		17.1	20.0	-14.6	30.0
n-Octane	Ave	1.083	1.015		18.7	20.0	-6.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: ICV 320-212907/15 Calibration Date: 03/15/2018 09:01

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7031415.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.056	1.003		19.0	20.0	-5.0	30.0
trans-1,3-Dichloropropene	Ave	0.4675	0.4767		20.4	20.0	2.0	30.0
1,1,2-Trichloroethane	Ave	0.3211	0.3071		19.1	20.0	-4.4	30.0
2-Hexanone	Ave	0.4866	0.4596		18.9	20.0	-5.6	30.0
Tetrachloroethene	Ave	0.5198	0.4840		18.6	20.0	-6.9	30.0
Dibromochloromethane	Ave	0.6690	0.6418		19.2	20.0	-4.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.5299	0.5121		19.3	20.0	-3.4	30.0
Chlorobenzene	Ave	0.8779	0.7887		18.0	20.0	-10.2	30.0
n-Nonane	Ave	1.088	1.030		18.9	20.0	-5.4	30.0
Ethylbenzene	Ave	1.399	1.290		18.4	20.0	-7.8	30.0
m-Xylene & p-Xylene	Ave	1.083	0.9931		36.7	40.0	-8.3	30.0
o-Xylene	Ave	1.078	0.995		18.5	20.0	-7.7	30.0
Styrene	Ave	0.8312	0.7740		18.6	20.0	-6.9	30.0
Bromoform	Ave	0.6600	0.6344		19.2	20.0	-3.9	30.0
Isopropylbenzene	Ave	0.4124	0.3856		18.7	20.0	-6.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7563	0.6940		18.4	20.0	-8.2	30.0
1,2,3-Trichloropropane	Ave	0.2345	0.2146		18.3	20.0	-8.5	30.0
N-Propylbenzene	Ave	1.777	1.672		18.8	20.0	-5.9	30.0
4-Ethyltoluene	Ave	0.4537	0.4331		19.1	20.0	-4.6	30.0
1,3,5-Trimethylbenzene	Ave	0.6675	0.5790		17.3	20.0	-13.3	30.0
tert-Butylbenzene	Ave	0.9145	0.7824		17.1	20.0	-14.4	30.0
1,2,4-Trimethylbenzene	Ave	0.6060	0.5545		18.3	20.0	-8.5	30.0
sec-Butylbenzene	Ave	1.927	1.728		17.9	20.0	-10.3	30.0
4-Isopropyltoluene	Ave	1.647	1.493		18.1	20.0	-9.3	30.0
1,3-Dichlorobenzene	Ave	0.8182	0.7559		18.5	20.0	-7.6	30.0
1,4-Dichlorobenzene	Ave	0.8272	0.7461		18.0	20.0	-9.8	30.0
Benzyl chloride	Ave	1.368	1.278		14.9	16.0	-6.6	30.0
n-Butylbenzene	Ave	0.7556	0.7133		18.9	20.0	-5.6	30.0
1,2-Dichlorobenzene	Ave	0.7767	0.6910		17.8	20.0	-11.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5038	0.5689		22.6	20.0	12.9	30.0
Hexachlorobutadiene	Ave	0.5027	0.5055		20.1	20.0	0.5	30.0
Naphthalene	Ave	1.469	1.458		19.8	20.0	-0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3772	0.3736		3.96	4.00	-1.0	30.0
Toluene-d8 (Surr)	Ave	0.6967	0.6924		3.98	4.00	-0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7430	0.7611		4.10	4.00	2.4	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031415.D
Lims ID: ICV 20ppbv
Client ID:
Sample Type: ICV
Inject. Date: 15-Mar-2018 09:01:30 ALS Bottle#: 8 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 20ppbv
Misc. Info.: 125 mL w/ LCS40 ppbv
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:14:03 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: leeh Date: 15-Mar-2018 09:52:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.199	12.199	0.000	96	52991	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.346	14.346	0.000	96	223976	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.020	21.020	0.000	88	234544	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.397	13.397	0.000	97	83676	4.00	3.96	
$ 5 Toluene-d8 (Surr)	100	17.747	17.747	0.000	98	155080	4.00	3.98	
$ 6 4-Bromofluorobenzene (Surr	95	23.569	23.569	0.000	90	178506	4.00	4.10	
11 Propene	41	3.816	3.816	0.000	97	181030	20.0	14.2	
12 Chlorodifluoromethane	51	3.834	3.834	0.000	92	367210	20.0	15.7	
13 Dichlorodifluoromethane	85	3.883	3.883	0.000	99	370731	20.0	17.4	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.138	4.138	0.000	93	335669	20.0	17.4	
16 Chloromethane	50	4.333	4.333	0.000	99	191189	20.0	16.7	
17 Butane	43	4.558	4.558	0.000	85	320163	20.0	16.4	
18 Vinyl chloride	62	4.595	4.595	0.000	98	167018	20.0	16.6	
19 Butadiene	39	4.680	4.680	0.000	96	173757	20.0	17.0	
21 Bromomethane	94	5.489	5.489	0.000	99	149393	20.0	19.5	
22 Chloroethane	64	5.702	5.702	0.000	76	106079	20.0	18.3	
25 Vinyl bromide	106	6.201	6.201	0.000	99	180465	20.0	19.4	
26 Trichlorofluoromethane	101	6.359	6.359	0.000	98	508024	20.0	17.4	
27 Pentane	43	6.426	6.426	0.000	95	543007	20.0	18.3	
29 Ethyl ether	74	7.034	7.034	0.000	43	108211	20.0	19.4	
31 Acrolein	56	7.125	7.125	0.000	81	106108	20.0	16.6	
32 Acetone	43	7.283	7.283	0.000	98	475889	20.0	19.1	
33 1,1,2-Trichloro-1,2,2-trif	101	7.442	7.442	0.000	97	433438	20.0	18.0	
34 1,1-Dichloroethene	61	7.673	7.673	0.000	92	394158	20.0	18.6	
35 Acetonitrile	41	7.721	7.721	0.000	100	266229	20.0	20.1	
36 2-Methyl-2-propanol	59	7.916	7.916	0.000	90	710292	20.0	18.2	
38 3-Chloro-1-propene	41	8.445	8.445	0.000	92	382855	20.0	16.9	
39 Methylene Chloride	49	8.628	8.628	0.000	94	347233	20.0	17.1	
40 Carbon disulfide	76	8.671	8.671	0.000	97	585393	20.0	23.5	
41 Acrylonitrile	53	8.792	8.792	0.000	94	248929	20.0	18.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.212	9.212	0.000	94	692086	20.0	19.7	
43 trans-1,2-Dichloroethene	61	9.394	9.394	0.000	93	396294	20.0	21.0	
44 Hexane	41	9.820	9.820	0.000	85	392775	20.0	20.4	
45 1,1-Dichloroethane	63	10.258	10.258	0.000	99	469637	20.0	18.6	
47 Vinyl acetate	43	10.301	10.301	0.000	100	951539	20.0	17.5	
48 2-Butanone (MEK)	72	11.140	11.140	0.000	93	132287	20.0	19.5	
51 cis-1,2-Dichloroethene	96	11.566	11.566	0.000	97	243191	20.0	19.1	
52 Ethyl acetate	43	11.591	11.591	0.000	96	877991	20.0	19.9	
53 Chloroform	83	11.925	11.925	0.000	96	503847	20.0	18.7	
54 Tetrahydrofuran	42	12.363	12.363	0.000	92	460654	20.0	18.6	
55 1,1,1-Trichloroethane	97	12.862	12.862	0.000	96	536369	20.0	18.1	
56 Cyclohexane	84	13.051	13.051	0.000	92	341819	20.0	21.0	
58 Isooctane	57	13.349	13.349	0.000	98	1799748	20.0	19.9	
59 Carbon tetrachloride	117	13.446	13.446	0.000	98	595780	20.0	18.8	
60 n-Butanol	56	13.464	13.464	0.000	71	353220	20.0	19.1	
61 1,2-Dichloroethane	62	13.592	13.592	0.000	96	412564	20.0	19.7	
63 Benzene	78	13.726	13.726	0.000	98	815962	20.0	19.4	
64 n-Heptane	43	13.890	13.890	0.000	90	787302	20.0	19.5	
65 Trichloroethene	130	15.113	15.113	0.000	98	390841	20.0	19.4	
66 1,2-Dichloropropane	76	15.417	15.417	0.000	88	134683	20.0	19.9	
67 Methyl methacrylate	69	15.575	15.575	0.000	88	340539	20.0	21.2	
68 Dichlorobromomethane	85	15.880	15.880	0.000	97	414786	20.0	19.8	
69 1,4-Dioxane	88	15.898	15.898	0.000	73	203787	20.0	17.6	
70 Dibromomethane	174	15.934	15.934	0.000	96	348152	20.0	18.7	
71 4-Methyl-2-pentanone (MIBK	43	16.725	16.725	0.000	96	1108658	20.0	17.6	
72 cis-1,3-Dichloropropene	75	17.102	17.102	0.000	98	520053	20.0	17.1	
73 n-Octane	43	17.784	17.784	0.000	95	1190779	20.0	18.7	
75 Toluene	91	17.918	17.918	0.000	93	1123323	20.0	19.0	
76 trans-1,3-Dichloropropene	75	18.203	18.203	0.000	97	559016	20.0	20.4	
77 1,1,2-Trichloroethane	97	18.544	18.544	0.000	98	360090	20.0	19.1	
78 2-Hexanone	58	18.660	18.660	0.000	90	538932	20.0	18.9	
80 Tetrachloroethene	166	19.432	19.432	0.000	97	567536	20.0	18.6	
81 Chlorodibromomethane	129	19.651	19.651	0.000	98	752676	20.0	19.2	
82 Ethylene Dibromide	107	20.108	20.108	0.000	98	600547	20.0	19.3	
83 Chlorobenzene	112	21.099	21.099	0.000	93	924917	20.0	18.0	
84 n-Nonane	43	21.166	21.166	0.000	94	1207922	20.0	18.9	
86 Ethylbenzene	91	21.276	21.276	0.000	99	1512384	20.0	18.4	
87 m-Xylene & p-Xylene	91	21.458	21.458	0.000	99	2329358	40.0	36.7	
88 o-Xylene	91	22.359	22.359	0.000	98	1167128	20.0	18.5	
89 Styrene	104	22.389	22.389	0.000	97	907710	20.0	18.6	
90 Bromoform	173	22.955	22.955	0.000	97	743955	20.0	19.2	
92 Isopropylbenzene	120	23.143	23.143	0.000	97	452175	20.0	18.7	
93 1,1,2,2-Tetrachloroethane	83	23.344	23.344	0.000	99	813804	20.0	18.4	
97 1,2,3-Trichloropropane	110	23.642	23.642	0.000	96	251692	20.0	18.3	
99 N-Propylbenzene	91	23.983	23.983	0.000	98	1960531	20.0	18.8	
101 n-Decane	57	24.001	24.001	0.000	84	1168588	20.0	19.0	
102 4-Ethyltoluene	120	24.220	24.220	0.000	99	507882	20.0	19.1	
103 2-Chlorotoluene	126	24.293	24.293	0.000	98	411135	20.0	18.4	
104 1,3,5-Trimethylbenzene	120	24.317	24.317	0.000	92	678945	20.0	17.3	
105 Alpha Methyl Styrene	118	24.895	24.895	0.000	87	693812	20.0	18.9	
106 tert-Butylbenzene	91	25.047	25.047	0.000	93	917567	20.0	17.1	
107 1,2,4-Trimethylbenzene	120	25.114	25.114	0.000	98	650216	20.0	18.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.498	25.498	0.000	99	2026621	20.0	17.9	
109 4-Isopropyltoluene	119	25.771	25.771	0.000	98	1750896	20.0	18.1	
110 1,3-Dichlorobenzene	146	25.875	25.875	0.000	98	886427	20.0	18.5	
111 1,4-Dichlorobenzene	146	26.076	26.076	0.000	94	874942	20.0	18.0	
113 Benzyl chloride	91	26.246	26.246	0.000	98	1198679	16.0	14.9	
114 Undecane	57	26.447	26.447	0.000	91	1277080	20.0	18.8	
115 n-Butylbenzene	92	26.599	26.599	0.000	98	836439	20.0	18.9	
116 1,2-Dichlorobenzene	146	26.806	26.806	0.000	95	810380	20.0	17.8	
118 Dodecane	57	28.625	28.625	0.000	91	1103196	20.0	21.9	
119 1,2,4-Trichlorobenzene	180	30.127	30.127	0.000	95	667144	20.0	22.6	
120 Hexachlorobutadiene	225	30.486	30.486	0.000	97	592752	20.0	20.1	
121 Naphthalene	128	30.577	30.577	0.000	99	1709290	20.0	19.8	
122 1,2,3-Trichlorobenzene	180	31.088	31.088	0.000	95	651099	20.0	25.4	
A 145 Nonmethane Organic Compoun	1	16.271	(3.862-28.679)		0	185007972	20.0	1752.6	E
A 146 Total VOC as Hexane	1	16.271	(3.862-28.679)		0	185007972	20.0	1752.6	E
A 144 Total VOCs as Tetrachloroe	1	16.442	(3.667-29.217)		0	187097274	20.0	0	
A 147 TVOC as Toluene	1	16.442	(3.667-29.217)		0	187097274	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1033110	NC	NC	
A 149 PCE Range	1	19.469	(19.247-19.691)		0	5732405	NC	NC	
S 150 Xylenes, Total	91				0		60.0	55.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPLC40_00467	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

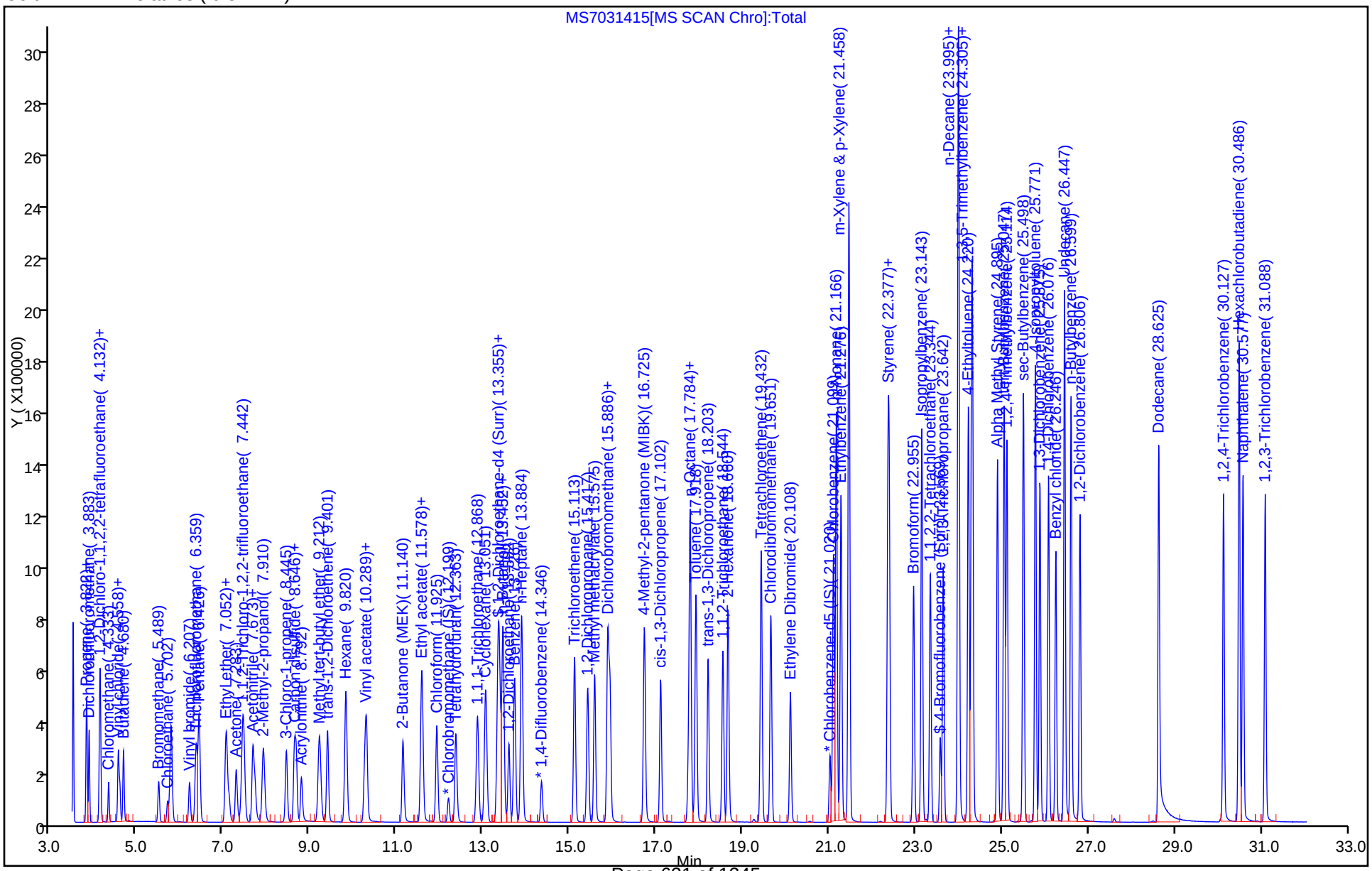
Report Date: 15-Mar-2018 11:14:05 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031415.D

Injection Date:	15-Mar-2018 09:01:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	ICV 20ppbv			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Mar-2018 11:14:05 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031415.D

Injection Date: 15-Mar-2018 09:01:30 Instrument ID: ATMS7

Lims ID: ICV 20ppbv

Client ID:

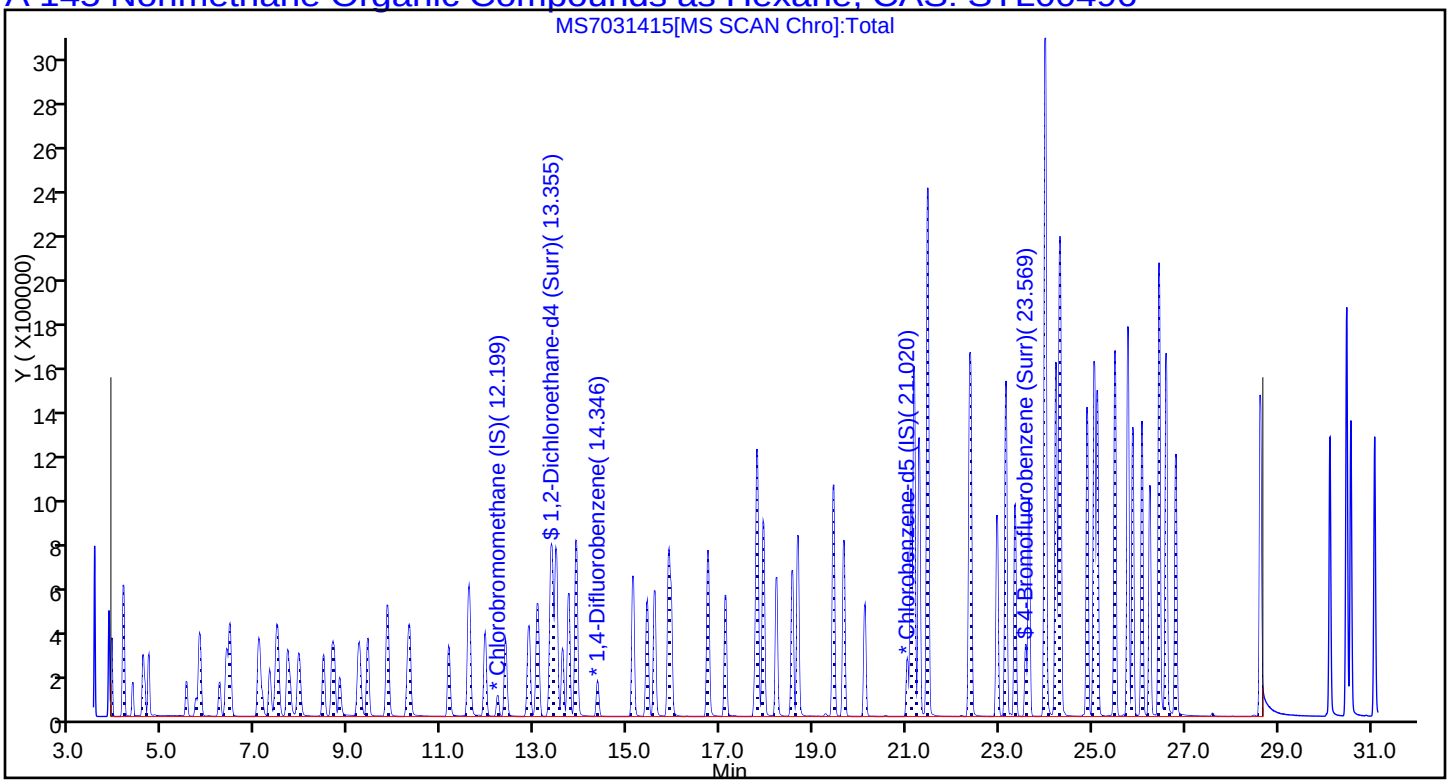
Operator ID: LHS ALS Bottle#: 8 Worklist Smp#: 15

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVIS 320-216210/2 Calibration Date: 04/04/2018 10:39

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040402.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.9637	1.069		22.2	20.0	10.9	30.0
Dichlorodifluoromethane	Ave	1.612	1.579		19.6	20.0	-2.1	30.0
Dichlorotetrafluoroethane(F-114)	Ave	1.454	1.464		20.1	20.0	0.6	30.0
Chloromethane	Ave	0.8644	0.9245		21.4	20.0	7.0	30.0
Vinyl chloride	Ave	0.7613	0.7534		19.8	20.0	-1.0	30.0
Butadiene	Ave	0.7696	0.8106		21.1	20.0	5.3	30.0
Bromomethane	Ave	0.5779	0.5380		18.6	20.0	-6.9	30.0
Chloroethane	Ave	0.4386	0.4546		20.7	20.0	3.6	30.0
Trichlorofluoromethane	Ave	2.208	2.404		21.8	20.0	8.9	30.0
Acetone	Ave	1.879	2.061		21.9	20.0	9.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.814	1.850		20.4	20.0	2.0	30.0
1,1-Dichloroethene	Ave	1.598	1.745		21.8	20.0	9.1	30.0
tert-Butyl alcohol (TBA)	Ave	2.944	2.980		20.2	20.0	1.2	30.0
Methylene Chloride	Ave	1.534	1.643		21.4	20.0	7.1	30.0
Carbon disulfide	Ave	1.877	1.895		20.2	20.0	0.9	30.0
Acrylonitrile	Ave	0.997	1.088		21.8	20.0	9.2	30.0
Methyl tert-butyl ether	Ave	2.656	2.813		21.2	20.0	5.9	30.0
trans-1,2-Dichloroethene	Ave	1.428	1.513		21.2	20.0	6.0	30.0
Hexane	Ave	1.453	1.712		23.6	20.0	17.8	30.0
1,1-Dichloroethane	Ave	1.906	2.018		21.2	20.0	5.9	30.0
Vinyl acetate	Ave	4.105	4.151		20.2	20.0	1.1	30.0
2-Butanone (MEK)	Ave	0.5112	0.5290		20.7	20.0	3.5	30.0
cis-1,2-Dichloroethene	Ave	0.9609	0.9710		20.2	20.0	1.0	30.0
Ethyl acetate	Ave	3.322	3.761		22.6	20.0	13.2	30.0
Chloroform	Ave	2.031	2.161		21.3	20.0	6.4	30.0
Tetrahydrofuran	Ave	1.872	2.114		22.6	20.0	13.0	30.0
1,1,1-Trichloroethane	Ave	2.233	2.407		21.6	20.0	7.8	30.0
Cyclohexane	Ave	0.2909	0.2982		20.5	20.0	2.5	30.0
Carbon tetrachloride	Ave	0.5652	0.5082		18.0	20.0	-10.1	30.0
1,2-Dichloroethane	Ave	0.3747	0.4157		22.2	20.0	10.9	30.0
Benzene	Ave	0.7502	0.7354		19.6	20.0	-2.0	30.0
n-Heptane	Ave	0.7206	0.8258		22.9	20.0	14.6	30.0
Trichloroethene	Ave	0.3601	0.3567		19.8	20.0	-0.9	30.0
1,2-Dichloropropane	Ave	0.1206	0.1332		22.1	20.0	10.4	30.0
Bromodichloromethane	Ave	0.3735	0.3865		20.7	20.0	3.5	30.0
1,4-Dioxane	Ave	0.2064	0.1932		18.7	20.0	-6.4	30.0
NMOC as Hexane	Ave	850.6	896.0		2250	20.0	5.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.126	1.244		22.1	20.0	10.5	30.0
cis-1,3-Dichloropropene	Ave	0.5435	0.5545		20.4	20.0	2.0	30.0
n-Octane	Ave	1.083	1.190		22.0	20.0	9.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVIS 320-216210/2 Calibration Date: 04/04/2018 10:39

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040402.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.056	1.050		19.9	20.0	-0.5	30.0
trans-1,3-Dichloropropene	Ave	0.4675	0.4592		19.6	20.0	-1.8	30.0
1,1,2-Trichloroethane	Ave	0.3211	0.2996		18.7	20.0	-6.7	30.0
2-Hexanone	Ave	0.4866	0.4841		19.9	20.0	-0.5	30.0
Tetrachloroethene	Ave	0.5198	0.4827		18.6	20.0	-7.1	30.0
Dibromochloromethane	Ave	0.6690	0.6383		19.1	20.0	-4.6	30.0
1,2-Dibromoethane (EDB)	Ave	0.5299	0.5012		18.9	20.0	-5.4	30.0
Chlorobenzene	Ave	0.8779	0.8338		19.0	20.0	-5.0	30.0
n-Nonane	Ave	1.088	1.341		24.6	20.0	23.2	30.0
Ethylbenzene	Ave	1.399	1.410		20.2	20.0	0.8	30.0
m-Xylene & p-Xylene	Ave	1.083	1.113		41.1	40.0	2.8	30.0
o-Xylene	Ave	1.078	1.127		20.9	20.0	4.6	30.0
Styrene	Ave	0.8312	0.8946		21.5	20.0	7.6	30.0
Bromoform	Ave	0.6600	0.6266		19.0	20.0	-5.1	30.0
Isopropylbenzene	Ave	0.4124	0.4334		21.0	20.0	5.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7563	0.7299		19.3	20.0	-3.5	30.0
1,2,3-Trichloropropane	Ave	0.2345	0.2322		19.8	20.0	-1.0	30.0
N-Propylbenzene	Ave	1.777	1.885		21.2	20.0	6.1	30.0
4-Ethyltoluene	Ave	0.4537	0.4921		21.7	20.0	8.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6675	0.6705		20.1	20.0	0.5	30.0
tert-Butylbenzene	Ave	0.9145	0.9214		20.1	20.0	0.7	30.0
1,2,4-Trimethylbenzene	Ave	0.6060	0.6453		21.3	20.0	6.5	30.0
sec-Butylbenzene	Ave	1.927	1.991		20.7	20.0	3.3	30.0
4-Isopropyltoluene	Ave	1.647	1.710		20.8	20.0	3.9	30.0
1,3-Dichlorobenzene	Ave	0.8182	0.8376		20.5	20.0	2.4	30.0
1,4-Dichlorobenzene	Ave	0.8272	0.8242		19.9	20.0	-0.4	30.0
Benzyl chloride	Ave	1.368	1.190		13.9	16.0	-13.0	30.0
n-Butylbenzene	Ave	0.7556	0.8156		21.6	20.0	7.9	30.0
1,2-Dichlorobenzene	Ave	0.7767	0.7794		20.1	20.0	0.3	30.0
1,2,4-Trichlorobenzene	Ave	0.5038	0.4531		18.0	20.0	-10.1	30.0
Hexachlorobutadiene	Ave	0.5027	0.4486		17.8	20.0	-10.8	30.0
Naphthalene	Ave	1.469	1.154		15.7	20.0	-21.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3772	0.4292		4.55	4.00	13.8	30.0
Toluene-d8 (Surr)	Ave	0.6967	0.7112		4.08	4.00	2.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7430	0.8097		4.36	4.00	9.0	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040402.D
Lims ID: CCVIS 20ppbv
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Apr-2018 10:39:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:21:06 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.229	12.229	0.000	93	30441	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.389	0.000	96	137110	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.063	0.000	90	155948	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.434	13.434	0.000	96	58846	4.00	4.55	
$ 5 Toluene-d8 (Surr)	100	17.790	17.790	0.000	97	97515	4.00	4.08	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.618	0.000	88	126265	4.00	4.36	
11 Propene	41	3.834	3.834	0.000	98	162678	20.0	22.2	
12 Chlorodifluoromethane	51	3.846	3.846	0.000	92	289358	20.0	21.6	
13 Dichlorodifluoromethane	85	3.895	3.895	0.000	98	240330	20.0	19.6	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.150	4.150	0.000	94	222762	20.0	20.1	
16 Chloromethane	50	4.345	4.345	0.000	99	140718	20.0	21.4	
17 Butane	43	4.570	4.570	0.000	85	242449	20.0	21.7	
18 Vinyl chloride	62	4.607	4.607	0.000	98	114669	20.0	19.8	
19 Butadiene	39	4.692	4.692	0.000	93	123379	20.0	21.1	
21 Bromomethane	94	5.513	5.513	0.000	98	81886	20.0	18.6	
22 Chloroethane	64	5.714	5.714	0.000	75	69187	20.0	20.7	
25 Vinyl bromide	106	6.231	6.231	0.000	98	108278	20.0	20.3	
26 Trichlorofluoromethane	101	6.383	6.383	0.000	98	365936	20.0	21.8	
27 Pentane	43	6.444	6.444	0.000	95	388959	20.0	22.8	
29 Ethyl ether	74	7.052	7.052	0.000	32	67500	20.0	21.1	
31 Acrolein	56	7.143	7.143	0.000	83	78656	20.0	21.4	
32 Acetone	43	7.296	7.296	0.000	100	313718	20.0	21.9	
33 1,1,2-Trichloro-1,2,2-trif	101	7.460	7.460	0.000	96	281573	20.0	20.4	
34 1,1-Dichloroethene	61	7.697	7.697	0.000	91	265524	20.0	21.8	
35 Acetonitrile	41	7.734	7.734	0.000	99	182746	20.0	24.0	
36 2-Methyl-2-propanol	59	7.910	7.910	0.000	92	453496	20.0	20.2	
38 3-Chloro-1-propene	41	8.470	8.470	0.000	92	278303	20.0	21.4	
39 Methylene Chloride	49	8.658	8.658	0.000	90	250006	20.0	21.4	
40 Carbon disulfide	76	8.707	8.707	0.000	95	288422	20.0	20.2	
41 Acrylonitrile	53	8.810	8.810	0.000	94	165585	20.0	21.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.230	9.230	0.000	92	428169	20.0	21.2	
43 trans-1,2-Dichloroethene	61	9.425	9.425	0.000	91	230276	20.0	21.2	
44 Hexane	41	9.845	9.845	0.000	84	260583	20.0	23.6	
45 1,1-Dichloroethane	63	10.289	10.289	0.000	99	307175	20.0	21.2	
47 Vinyl acetate	43	10.319	10.319	0.000	100	631869	20.0	20.2	
48 2-Butanone (MEK)	72	11.165	11.165	0.000	93	80513	20.0	20.7	
51 cis-1,2-Dichloroethene	96	11.591	11.591	0.000	94	147785	20.0	20.2	
52 Ethyl acetate	43	11.615	11.615	0.000	95	572456	20.0	22.6	
53 Chloroform	83	11.956	11.956	0.000	94	328842	20.0	21.3	
54 Tetrahydrofuran	42	12.400	12.400	0.000	90	321798	20.0	22.6	
55 1,1,1-Trichloroethane	97	12.898	12.898	0.000	96	366302	20.0	21.6	
56 Cyclohexane	84	13.093	13.093	0.000	89	204425	20.0	20.5	
58 Isooctane	57	13.385	13.385	0.000	96	1173720	20.0	21.2	
59 Carbon tetrachloride	117	13.489	13.489	0.000	98	348415	20.0	18.0	
60 n-Butanol	56	13.489	13.489	0.000	74	204746	20.0	19.2	
61 1,2-Dichloroethane	62	13.629	13.629	0.000	96	284978	20.0	22.2	
63 Benzene	78	13.756	13.756	0.000	96	504168	20.0	19.6	
64 n-Heptane	43	13.921	13.921	0.000	89	566143	20.0	22.9	
65 Trichloroethene	130	15.149	15.149	0.000	97	244546	20.0	19.8	
66 1,2-Dichloropropane	76	15.454	15.454	0.000	83	91289	20.0	22.1	
67 Methyl methacrylate	69	15.618	15.618	0.000	85	212920	20.0	21.6	
68 Dichlorobromomethane	85	15.916	15.916	0.000	96	264956	20.0	20.7	
69 1,4-Dioxane	88	15.928	15.928	0.000	71	132422	20.0	18.7	
70 Dibromomethane	174	15.971	15.971	0.000	98	210967	20.0	18.5	
71 4-Methyl-2-pentanone (MIBK	43	16.768	16.768	0.000	96	852984	20.0	22.1	
72 cis-1,3-Dichloropropene	75	17.145	17.145	0.000	95	380134	20.0	20.4	
73 n-Octane	43	17.826	17.826	0.000	95	927685	20.0	22.0	
75 Toluene	91	17.960	17.960	0.000	92	720007	20.0	19.9	
76 trans-1,3-Dichloropropene	75	18.240	18.240	0.000	93	358064	20.0	19.6	
77 1,1,2-Trichloroethane	97	18.587	18.587	0.000	97	233595	20.0	18.7	
78 2-Hexanone	58	18.702	18.702	0.000	88	377482	20.0	19.9	
80 Tetrachloroethene	166	19.475	19.475	0.000	94	376376	20.0	18.6	
81 Chlorodibromomethane	129	19.694	19.694	0.000	97	497686	20.0	19.1	
82 Ethylene Dibromide	107	20.150	20.150	0.000	98	390780	20.0	18.9	
83 Chlorobenzene	112	21.148	21.148	0.000	91	650145	20.0	19.0	
84 n-Nonane	43	21.209	21.209	0.000	91	1045442	20.0	24.6	
86 Ethylbenzene	91	21.318	21.318	0.000	98	1099479	20.0	20.2	
87 m-Xylene & p-Xylene	91	21.501	21.501	0.000	98	1735172	40.0	41.1	
88 o-Xylene	91	22.407	22.407	0.000	96	878936	20.0	20.9	
89 Styrene	104	22.438	22.438	0.000	96	697584	20.0	21.5	
90 Bromoform	173	23.003	23.003	0.000	95	488610	20.0	19.0	
92 Isopropylbenzene	120	23.192	23.192	0.000	97	337955	20.0	21.0	
93 1,1,2,2-Tetrachloroethane	83	23.387	23.387	0.000	99	569124	20.0	19.3	
97 1,2,3-Trichloropropane	110	23.685	23.685	0.000	93	181031	20.0	19.8	
99 N-Propylbenzene	91	24.031	24.031	0.000	98	1470118	20.0	21.2	
101 n-Decane	57	24.044	24.044	0.000	83	932037	20.0	22.8	
102 4-Ethyltoluene	120	24.263	24.263	0.000	99	383688	20.0	21.7	
103 2-Chlorotoluene	126	24.342	24.342	0.000	98	299589	20.0	20.2	
104 1,3,5-Trimethylbenzene	120	24.366	24.366	0.000	91	522823	20.0	20.1	
105 Alpha Methyl Styrene	118	24.938	24.938	0.000	86	531320	20.0	21.7	
106 tert-Butylbenzene	91	25.090	25.090	0.000	92	718420	20.0	20.1	
107 1,2,4-Trimethylbenzene	120	25.157	25.157	0.000	98	503193	20.0	21.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.540	25.540	0.000	98	1552144	20.0	20.7	
109 4-Isopropyltoluene	119	25.814	25.814	0.000	97	1333447	20.0	20.8	
110 1,3-Dichlorobenzene	146	25.917	25.917	0.000	98	653091	20.0	20.5	
111 1,4-Dichlorobenzene	146	26.118	26.118	0.000	92	642636	20.0	19.9	
113 Benzyl chloride	91	26.288	26.288	0.000	97	742348	16.0	13.9	
114 Undecane	57	26.483	26.483	0.000	88	908805	20.0	20.2	
115 n-Butylbenzene	92	26.635	26.635	0.000	98	635939	20.0	21.6	
116 1,2-Dichlorobenzene	146	26.848	26.848	0.000	94	607730	20.0	20.1	
118 Dodecane	57	28.661	28.661	0.000	87	586243	20.0	17.5	
119 1,2,4-Trichlorobenzene	180	30.158	30.158	0.000	95	353277	20.0	18.0	
120 Hexachlorobutadiene	225	30.517	30.517	0.000	95	349776	20.0	17.8	
121 Naphthalene	128	30.608	30.608	0.000	98	900202	20.0	15.7	
122 1,2,3-Trichlorobenzene	180	31.119	31.119	0.000	95	286031	20.0	16.8	
A 139 C6 Range	1	9.893	(9.653-10.133)		0	1274274	20.0	21.0	
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.645)		0	136376537	20.0	2249.0	E
A 146 Total VOC as Hexane	1	16.257	(3.834-28.645)		0	136376537	20.0	2249.0	E
A 147 TVOC as Toluene	1	16.460	(3.691-29.229)		0	137808585	20.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.460	(3.691-29.229)		0	137808585	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1386688	NC	NC	
A 149 PCE Range	1	19.499	(19.284-19.715)		0	3749164	NC	NC	
S 150 Xylenes, Total	91				0		60.0	62.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

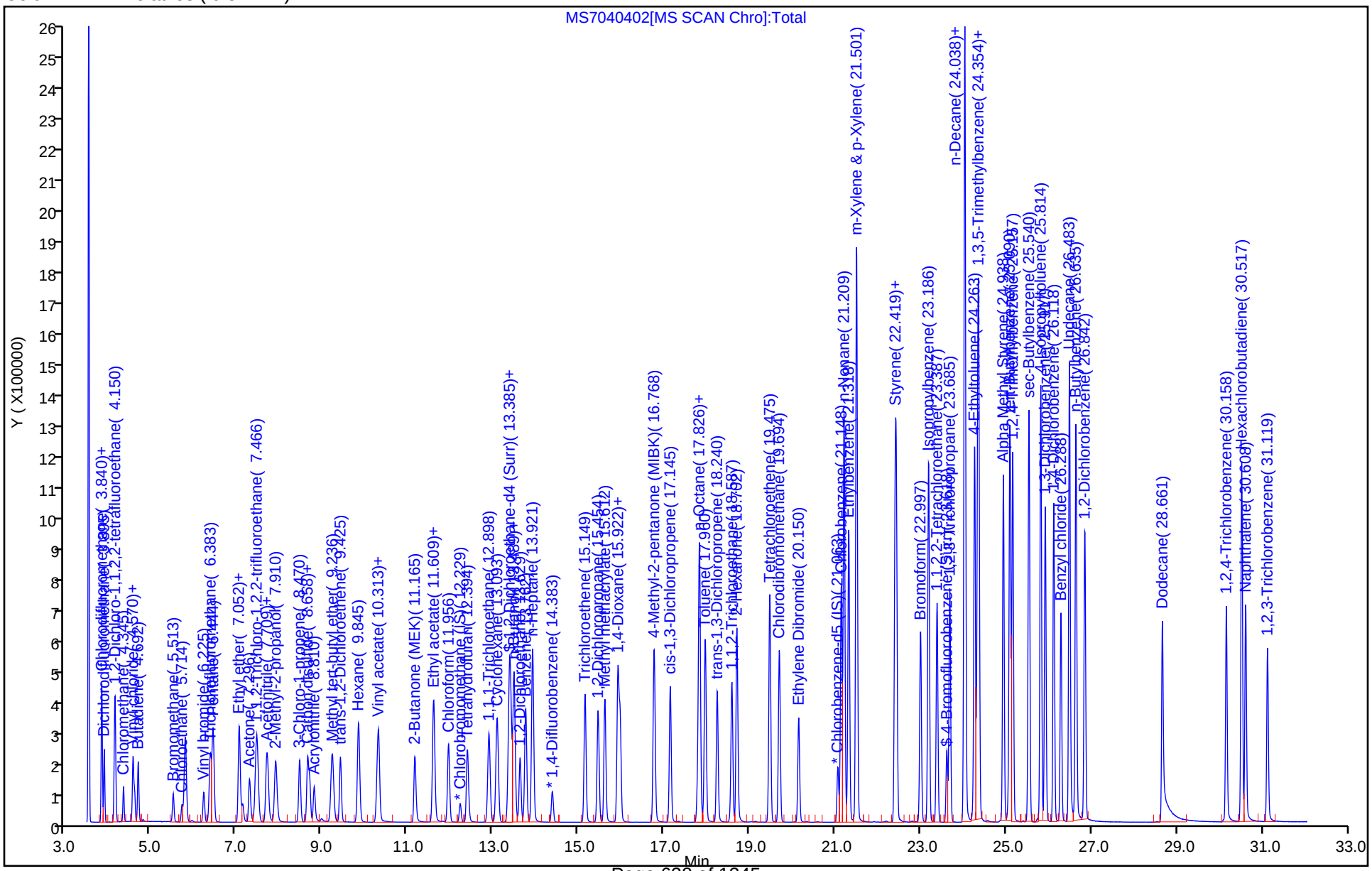
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040402.D

Injection Date:	04-Apr-2018 10:39:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	CCVIS 20ppbv			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



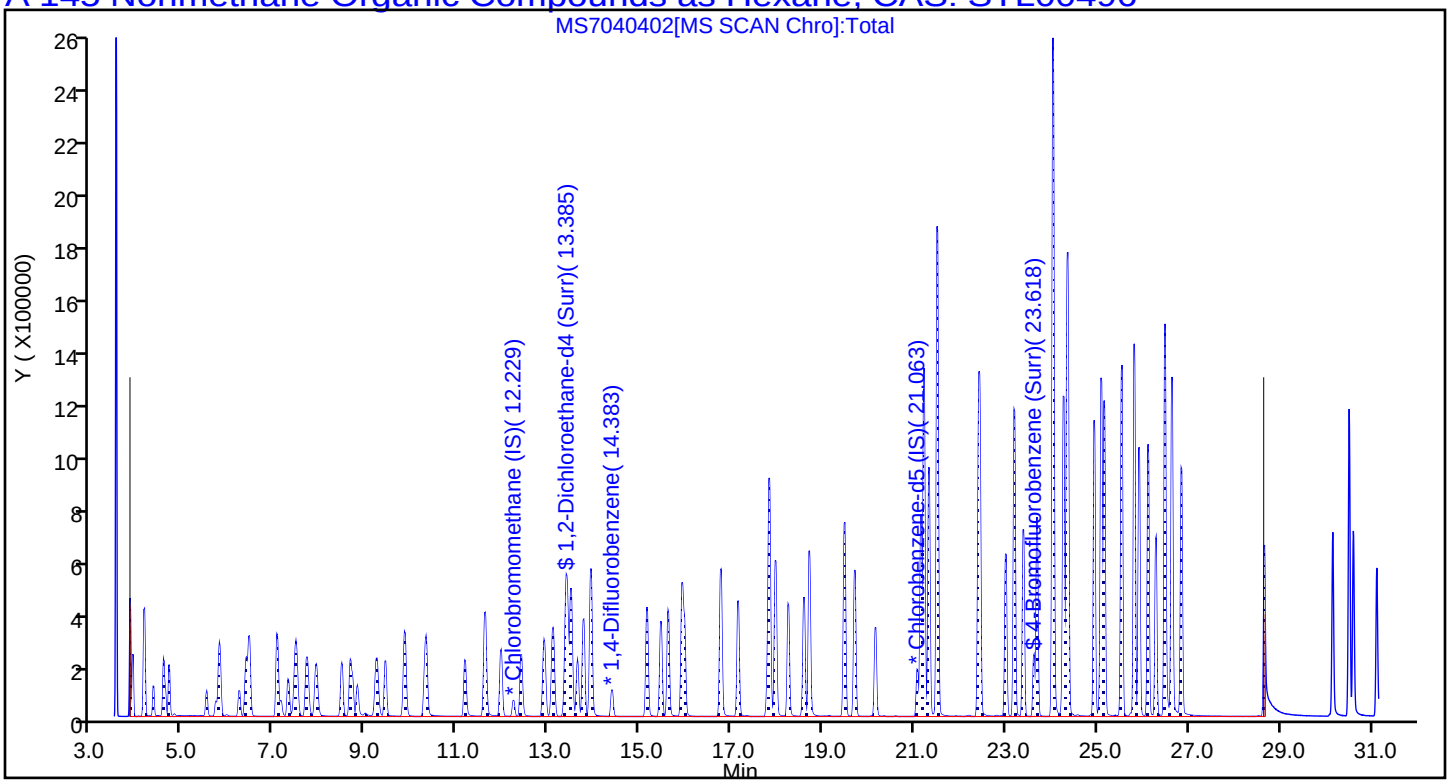
Report Date: 05-Apr-2018 12:21:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040402.D

Injection Date:	04-Apr-2018 10:39:30	Instrument ID:	ATMS7		
Lims ID:	CCVIS 20ppbv				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVC 320-216210/23 Calibration Date: 04/05/2018 09:34

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040423.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.9637	1.087		22.6	20.0	12.8	30.0
Dichlorodifluoromethane	Ave	1.612	1.592		19.7	20.0	-1.3	30.0
Dichlorotetrafluoroethane(F-114)	Ave	1.454	1.473		20.3	20.0	1.3	30.0
Chloromethane	Ave	0.8644	0.9355		21.6	20.0	8.2	30.0
Vinyl chloride	Ave	0.7613	0.7561		19.9	20.0	-0.7	30.0
Butadiene	Ave	0.7696	0.8810		22.9	20.0	14.5	30.0
Bromomethane	Ave	0.5779	0.6562		22.7	20.0	13.6	30.0
Chloroethane	Ave	0.4386	0.4638		21.2	20.0	5.8	30.0
Trichlorofluoromethane	Ave	2.208	2.509		22.7	20.0	13.6	30.0
Acetone	Ave	1.879	2.194		23.4	20.0	16.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.814	1.887		20.8	20.0	4.0	30.0
1,1-Dichloroethene	Ave	1.598	1.792		22.4	20.0	12.1	30.0
tert-Butyl alcohol (TBA)	Ave	2.944	3.128		21.3	20.0	6.3	30.0
Methylene Chloride	Ave	1.534	1.715		22.4	20.0	11.8	30.0
Carbon disulfide	Ave	1.877	1.898		20.2	20.0	1.1	30.0
Acrylonitrile	Ave	0.997	1.092		21.9	20.0	9.6	30.0
Methyl tert-butyl ether	Ave	2.656	2.881		21.7	20.0	8.5	30.0
trans-1,2-Dichloroethene	Ave	1.428	1.554		21.8	20.0	8.9	30.0
Hexane	Ave	1.453	1.797		24.7	20.0	23.7	30.0
1,1-Dichloroethane	Ave	1.906	2.056		21.6	20.0	7.9	30.0
Vinyl acetate	Ave	4.105	4.307		21.0	20.0	4.9	30.0
2-Butanone (MEK)	Ave	0.5112	0.5286		20.7	20.0	3.4	30.0
cis-1,2-Dichloroethene	Ave	0.9609	0.9873		20.5	20.0	2.7	30.0
Ethyl acetate	Ave	3.322	3.862		23.3	20.0	16.3	30.0
Chloroform	Ave	2.031	2.246		22.1	20.0	10.6	30.0
Tetrahydrofuran	Ave	1.872	2.187		23.4	20.0	16.9	30.0
1,1,1-Trichloroethane	Ave	2.233	2.533		22.7	20.0	13.4	30.0
Cyclohexane	Ave	0.2909	0.3080		21.2	20.0	5.9	30.0
Carbon tetrachloride	Ave	0.5652	0.5447		19.3	20.0	-3.6	30.0
1,2-Dichloroethane	Ave	0.3747	0.4545		24.3	20.0	21.3	30.0
Benzene	Ave	0.7502	0.7690		20.5	20.0	2.5	30.0
n-Heptane	Ave	0.7206	0.8761		24.3	20.0	21.6	30.0
Trichloroethene	Ave	0.3601	0.3704		20.6	20.0	2.9	30.0
1,2-Dichloropropane	Ave	0.1206	0.1430		23.7	20.0	18.6	30.0
Bromodichloromethane	Ave	0.3735	0.4150		22.2	20.0	11.1	30.0
1,4-Dioxane	Ave	0.2064	0.1985		19.2	20.0	-3.8	30.0
NMOC as Hexane	Ave	850.6	908.2		2280	20.0	6.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.126	1.303		23.2	20.0	15.8	30.0
cis-1,3-Dichloropropene	Ave	0.5435	0.5721		21.1	20.0	5.3	30.0
n-Octane	Ave	1.083	1.301		24.0	20.0	20.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVC 320-216210/23 Calibration Date: 04/05/2018 09:34

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040423.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.056	1.081		20.5	20.0	2.4	30.0
trans-1,3-Dichloropropene	Ave	0.4675	0.4985		21.3	20.0	6.6	30.0
1,1,2-Trichloroethane	Ave	0.3211	0.3263		20.3	20.0	1.6	30.0
2-Hexanone	Ave	0.4866	0.5169		21.2	20.0	6.2	30.0
Tetrachloroethene	Ave	0.5198	0.5163		19.9	20.0	-0.7	30.0
Dibromochloromethane	Ave	0.6690	0.7049		21.1	20.0	5.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.5299	0.5429		20.5	20.0	2.5	30.0
Chlorobenzene	Ave	0.8779	0.8876		20.2	20.0	1.1	30.0
n-Nonane	Ave	1.088	1.444		26.5	20.0	32.6*	30.0
Ethylbenzene	Ave	1.399	1.502		21.5	20.0	7.4	30.0
m-Xylene & p-Xylene	Ave	1.083	1.193		44.1	40.0	10.2	30.0
o-Xylene	Ave	1.078	1.204		22.3	20.0	11.7	30.0
Styrene	Ave	0.8312	0.9559		23.0	20.0	15.0	30.0
Bromoform	Ave	0.6600	0.6708		20.3	20.0	1.6	30.0
Isopropylbenzene	Ave	0.4124	0.4628		22.4	20.0	12.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7563	0.7735		20.5	20.0	2.3	30.0
1,2,3-Trichloropropane	Ave	0.2345	0.2527		21.5	20.0	7.7	30.0
N-Propylbenzene	Ave	1.777	2.019		22.7	20.0	13.6	30.0
4-Ethyltoluene	Ave	0.4537	0.5240		23.1	20.0	15.5	30.0
1,3,5-Trimethylbenzene	Ave	0.6675	0.7194		21.6	20.0	7.8	30.0
tert-Butylbenzene	Ave	0.9145	1.013		22.1	20.0	10.7	30.0
1,2,4-Trimethylbenzene	Ave	0.6060	0.6972		23.0	20.0	15.1	30.0
sec-Butylbenzene	Ave	1.927	2.167		22.5	20.0	12.4	30.0
4-Isopropyltoluene	Ave	1.647	1.865		22.6	20.0	13.2	30.0
1,3-Dichlorobenzene	Ave	0.8182	0.9118		22.3	20.0	11.4	30.0
1,4-Dichlorobenzene	Ave	0.8272	0.8943		21.6	20.0	8.1	30.0
Benzyl chloride	Ave	1.368	1.263		14.8	16.0	-7.7	30.0
n-Butylbenzene	Ave	0.7556	0.8863		23.5	20.0	17.3	30.0
1,2-Dichlorobenzene	Ave	0.7767	0.8472		21.8	20.0	9.1	30.0
1,2,4-Trichlorobenzene	Ave	0.5038	0.4884		19.4	20.0	-3.1	30.0
Hexachlorobutadiene	Ave	0.5027	0.4875		19.4	20.0	-3.0	30.0
Naphthalene	Ave	1.469	1.239		16.9	20.0	-15.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3772	0.4520		4.79	4.00	19.8	30.0
Toluene-d8 (Surr)	Ave	0.6967	0.7086		4.07	4.00	1.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7430	0.7893		4.25	4.00	6.2	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040423.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 05-Apr-2018 09:34:30 ALS Bottle#: 2 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 10:18:57 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: leeh Date: 05-Apr-2018 10:18:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.217	12.248	-0.031	92	28507	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.371	14.401	-0.030	89	125077	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.044	21.081	-0.037	91	134695	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.410	13.418	-0.036	97	56539	4.00	4.79	
$ 5 Toluene-d8 (Surr)	100	17.765	17.764	-0.037	97	88627	4.00	4.07	
$ 6 4-Bromofluorobenzene (Surr	95	23.594	23.589	-0.036	88	106314	4.00	4.25	
11 Propene	41	3.828	3.837	-0.018	99	154868	20.0	22.6	
12 Chlorodifluoromethane	51	3.840	3.849	-0.018	92	279028	20.0	22.2	
13 Dichlorodifluoromethane	85	3.895	3.897	-0.012	98	226956	20.0	19.7	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.144	4.152	-0.018	97	210012	20.0	20.3	
16 Chloromethane	50	4.345	4.346	-0.012	99	133343	20.0	21.6	
17 Butane	43	4.564	4.571	-0.018	84	229132	20.0	21.9	
18 Vinyl chloride	62	4.601	4.607	-0.018	98	107765	20.0	19.9	
19 Butadiene	39	4.686	4.692	-0.018	91	125568	20.0	22.9	
21 Bromomethane	94	5.501	5.511	-0.024	98	93534	20.0	22.7	
22 Chloroethane	64	5.708	5.718	-0.024	74	66109	20.0	21.2	
25 Vinyl bromide	106	6.219	6.221	-0.018	98	103157	20.0	20.6	
26 Trichlorofluoromethane	101	6.371	6.379	-0.024	98	357662	20.0	22.7	
27 Pentane	43	6.438	6.440	-0.018	95	374630	20.0	23.4	
29 Ethyl ether	74	7.046	7.053	-0.024	41	62678	20.0	20.9	
31 Acrolein	56	7.125	7.132	-0.025	82	77229	20.0	22.4	
32 Acetone	43	7.290	7.290	-0.018	100	312720	20.0	23.4	
33 1,1,2-Trichloro-1,2,2-trif	101	7.454	7.459	-0.024	97	268991	20.0	20.8	
34 1,1-Dichloroethene	61	7.685	7.690	-0.024	90	255461	20.0	22.4	
35 Acetonitrile	41	7.728	7.726	-0.018	99	179717	20.0	25.2	
36 2-Methyl-2-propanol	59	7.904	7.902	-0.018	92	445905	20.0	21.3	
38 3-Chloro-1-propene	41	8.458	8.455	-0.018	92	266830	20.0	21.9	
39 Methylene Chloride	49	8.646	8.643	-0.018	90	244412	20.0	22.4	
40 Carbon disulfide	76	8.689	8.691	-0.024	95	270553	20.0	20.2	
41 Acrylonitrile	53	8.804	8.801	-0.018	95	155690	20.0	21.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.224	9.219	-0.018	91	410693	20.0	21.7	
43 trans-1,2-Dichloroethene	61	9.413	9.407	-0.018	91	221565	20.0	21.8	
44 Hexane	41	9.832	9.832	-0.025	83	256144	20.0	24.7	
45 1,1-Dichloroethane	63	10.277	10.275	-0.024	99	293102	20.0	21.6	
47 Vinyl acetate	43	10.307	10.306	-0.024	100	613937	20.0	21.0	
48 2-Butanone (MEK)	72	11.153	11.149	-0.024	93	75337	20.0	20.7	
51 cis-1,2-Dichloroethene	96	11.578	11.574	-0.025	94	140728	20.0	20.5	
52 Ethyl acetate	43	11.603	11.592	-0.018	94	550530	20.0	23.3	
53 Chloroform	83	11.943	11.932	-0.019	94	320110	20.0	22.1	
54 Tetrahydrofuran	42	12.381	12.375	-0.025	90	311790	20.0	23.4	
55 1,1,1-Trichloroethane	97	12.880	12.872	-0.025	96	361029	20.0	22.7	
56 Cyclohexane	84	13.075	13.072	-0.024	88	192587	20.0	21.2	
58 Isooctane	57	13.373	13.363	-0.018	96	1107662	20.0	21.9	
59 Carbon tetrachloride	117	13.470	13.460	-0.019	97	340665	20.0	19.3	
60 n-Butanol	56	13.477	13.461	-0.018	74	199948	20.0	20.1	
61 1,2-Dichloroethane	62	13.610	13.606	-0.025	95	284221	20.0	24.3	
63 Benzene	78	13.744	13.733	-0.018	96	480926	20.0	20.5	
64 n-Heptane	43	13.902	13.897	-0.025	88	547918	20.0	24.3	
65 Trichloroethene	130	15.131	15.123	-0.025	96	231653	20.0	20.6	
66 1,2-Dichloropropane	76	15.435	15.427	-0.025	82	89412	20.0	23.7	
67 Methyl methacrylate	69	15.594	15.585	-0.024	84	197248	20.0	22.0	
68 Dichlorobromomethane	85	15.898	15.888	-0.024	97	259536	20.0	22.2	
69 1,4-Dioxane	88	15.910	15.900	-0.024	70	124107	20.0	19.2	
70 Dibromomethane	174	15.953	15.943	-0.024	98	198982	20.0	19.2	
71 4-Methyl-2-pentanone (MIBK	43	16.743	16.738	-0.031	96	815078	20.0	23.2	
72 cis-1,3-Dichloropropene	75	17.127	17.115	-0.024	93	357790	20.0	21.1	
73 n-Octane	43	17.808	17.795	-0.024	95	875915	20.0	24.0	
75 Toluene	91	17.942	17.928	-0.024	92	676251	20.0	20.5	
76 trans-1,3-Dichloropropene	75	18.222	18.214	-0.024	92	335746	20.0	21.3	
77 1,1,2-Trichloroethane	97	18.562	18.560	-0.031	95	219754	20.0	20.3	
78 2-Hexanone	58	18.684	18.676	-0.024	88	348101	20.0	21.2	
80 Tetrachloroethene	166	19.451	19.441	-0.024	93	347739	20.0	19.9	
81 Chlorodibromomethane	129	19.676	19.666	-0.024	97	474731	20.0	21.1	
82 Ethylene Dibromide	107	20.126	20.121	-0.030	98	365640	20.0	20.5	
83 Chlorobenzene	112	21.124	21.111	-0.024	91	597762	20.0	20.2	
84 n-Nonane	43	21.191	21.170	-0.025	90	972274	20.0	26.5	
86 Ethylbenzene	91	21.300	21.287	-0.024	98	1011675	20.0	21.5	
87 m-Xylene & p-Xylene	91	21.483	21.469	-0.025	98	1607410	40.0	44.1	
88 o-Xylene	91	22.383	22.368	-0.024	97	811156	20.0	22.3	
89 Styrene	104	22.413	22.399	-0.025	96	643801	20.0	23.0	
90 Bromoform	173	22.979	22.963	-0.024	95	451774	20.0	20.3	
92 Isopropylbenzene	120	23.168	23.152	-0.024	97	311662	20.0	22.4	
93 1,1,2,2-Tetrachloroethane	83	23.368	23.346	-0.019	98	520896	20.0	20.5	
97 1,2,3-Trichloropropane	110	23.667	23.650	-0.024	97	170183	20.0	21.5	
99 N-Propylbenzene	91	24.007	23.990	-0.024	98	1359826	20.0	22.7	
101 n-Decane	57	24.019	24.002	-0.025	81	860349	20.0	24.4	
102 4-Ethyltoluene	120	24.244	24.227	-0.025	99	352875	20.0	23.1	
103 2-Chlorotoluene	126	24.317	24.299	-0.025	98	280117	20.0	21.8	
104 1,3,5-Trimethylbenzene	120	24.342	24.324	-0.024	91	484523	20.0	21.6	
105 Alpha Methyl Styrene	118	24.920	24.901	-0.024	86	489960	20.0	23.2	
106 tert-Butylbenzene	91	25.072	25.053	-0.024	92	681947	20.0	22.1	
107 1,2,4-Trimethylbenzene	120	25.139	25.119	-0.024	98	469562	20.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.516	25.496	-0.024	98	1459492	20.0	22.5	
109 4-Isopropyltoluene	119	25.796	25.775	-0.024	97	1255818	20.0	22.6	
110 1,3-Dichlorobenzene	146	25.899	25.878	-0.024	98	614100	20.0	22.3	
111 1,4-Dichlorobenzene	146	26.100	26.079	-0.024	92	602298	20.0	21.6	
113 Benzyl chloride	91	26.270	26.249	-0.025	97	680460	16.0	14.8	
114 Undecane	57	26.465	26.443	-0.024	87	851609	20.0	21.9	
115 n-Butylbenzene	92	26.617	26.595	-0.024	98	596867	20.0	23.5	
116 1,2-Dichlorobenzene	146	26.830	26.808	-0.024	93	570531	20.0	21.8	
118 Dodecane	57	28.649	28.623	-0.024	86	566419	20.0	19.6	
119 1,2,4-Trichlorobenzene	180	30.146	30.117	-0.024	94	328893	20.0	19.4	
120 Hexachlorobutadiene	225	30.511	30.476	-0.018	94	328287	20.0	19.4	
121 Naphthalene	128	30.596	30.567	-0.024	98	834748	20.0	16.9	
122 1,2,3-Trichlorobenzene	180	31.113	31.077	-0.018	95	273058	20.0	18.6	
A 139 C6 Range	1	9.893	(9.653-10.133)		0	1233509	20.0	21.7	
A 146 Total VOC as Hexane	1	16.257	(3.834-28.679)		0	129445245	20.0	2279.5	E
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.679)		0	129445245	20.0	2279.5	E
A 144 Total VOCs as Tetrachloroe	1	16.457	(3.704-29.211)		0	130699810	20.0	0	
A 147 TVOC as Toluene	1	16.457	(3.704-29.211)		0	130699810	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1202774	NC	NC	
A 149 PCE Range	1	19.493	(19.290-19.697)		0	3623401	NC	NC	
S 150 Xylenes, Total	91				0		60.0	66.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

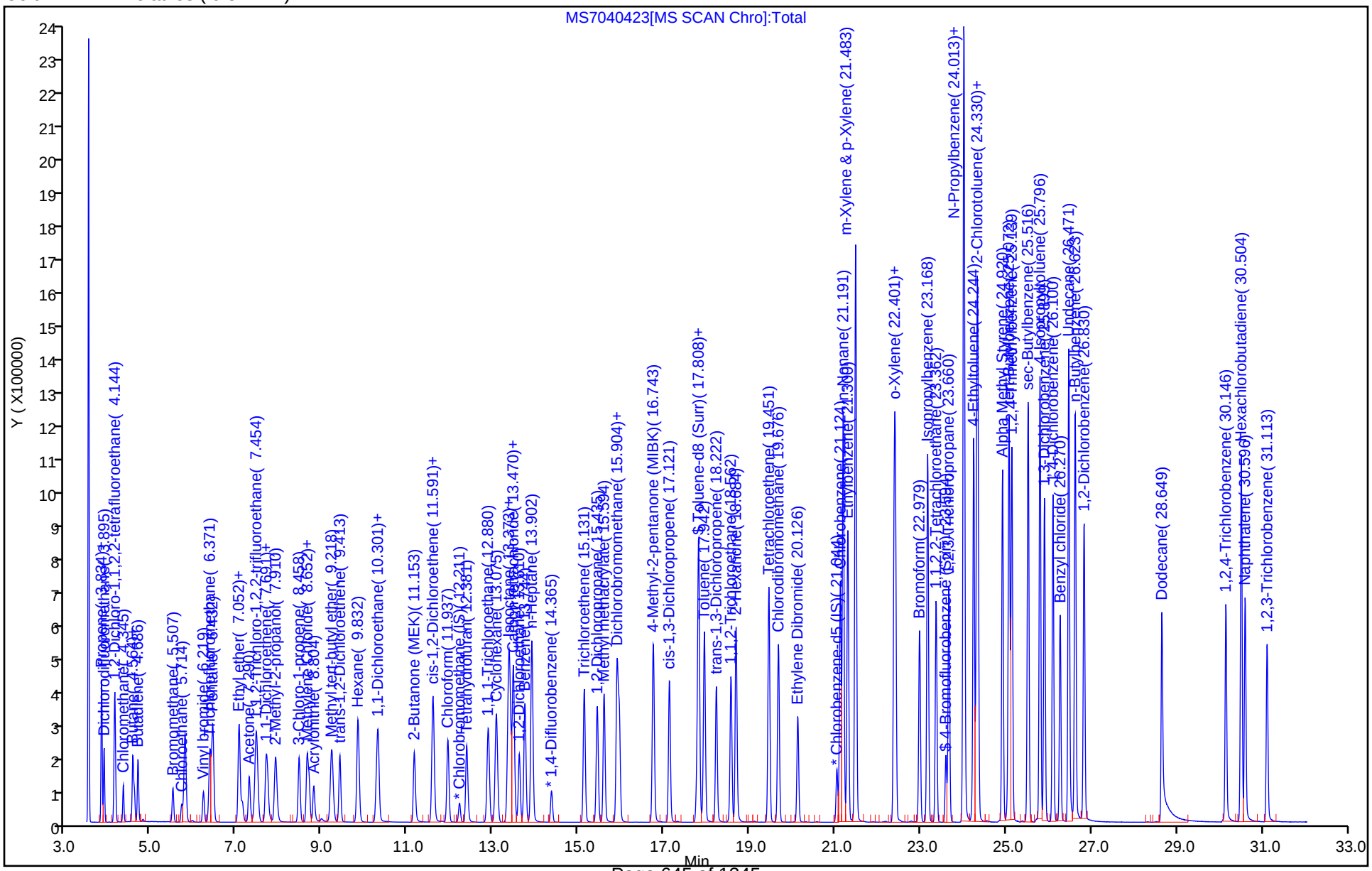
Report Date: 05-Apr-2018 10:18:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040423.D

Injection Date:	05-Apr-2018 09:34:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	CCVC			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



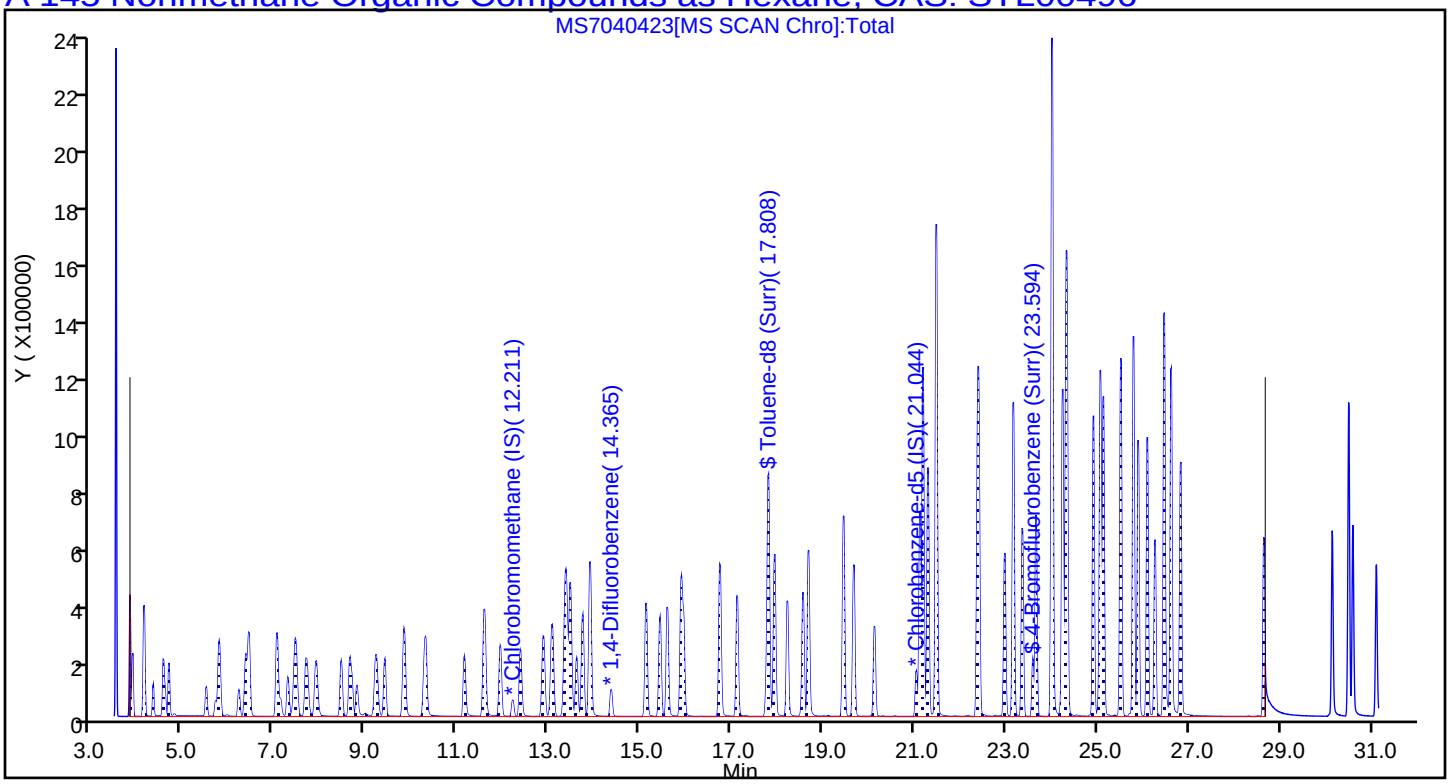
Report Date: 05-Apr-2018 10:18:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040423.D

Injection Date:	05-Apr-2018 09:34:30	Instrument ID:	ATMS7		
Lims ID:	CCVC				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVIS 320-216406/2 Calibration Date: 04/05/2018 11:59

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040502.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.9637	1.072		22.2	20.0	11.2	30.0
Dichlorodifluoromethane	Ave	1.612	1.497		18.6	20.0	-7.2	30.0
Dichlorotetrafluoroethane(F-114)	Ave	1.454	1.437		19.8	20.0	-1.2	30.0
Chloromethane	Ave	0.8644	0.8965		20.7	20.0	3.7	30.0
Vinyl chloride	Ave	0.7613	0.7091		18.6	20.0	-6.9	30.0
Butadiene	Ave	0.7696	0.8021		20.8	20.0	4.2	30.0
Bromomethane	Ave	0.5779	0.5237		18.1	20.0	-9.4	30.0
Chloroethane	Ave	0.4386	0.4452		20.3	20.0	1.5	30.0
Trichlorofluoromethane	Ave	2.208	2.367		21.4	20.0	7.2	30.0
Acetone	Ave	1.879	2.038		21.7	20.0	8.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.814	1.786		19.7	20.0	-1.6	30.0
1,1-Dichloroethene	Ave	1.598	1.701		21.3	20.0	6.4	30.0
tert-Butyl alcohol (TBA)	Ave	2.944	2.923		19.9	20.0	-0.7	30.0
Methylene Chloride	Ave	1.534	1.604		20.9	20.0	4.6	30.0
Carbon disulfide	Ave	1.877	1.833		19.5	20.0	-2.4	30.0
Acrylonitrile	Ave	0.997	1.056		21.2	20.0	6.0	30.0
Methyl tert-butyl ether	Ave	2.656	2.722		20.5	20.0	2.5	30.0
trans-1,2-Dichloroethene	Ave	1.428	1.455		20.4	20.0	1.9	30.0
Hexane	Ave	1.453	1.662		22.9	20.0	14.4	30.0
1,1-Dichloroethane	Ave	1.906	1.938		20.3	20.0	1.7	30.0
Vinyl acetate	Ave	4.105	4.043		19.7	20.0	-1.5	30.0
2-Butanone (MEK)	Ave	0.5112	0.5055		19.8	20.0	-1.1	30.0
cis-1,2-Dichloroethene	Ave	0.9609	0.9388		19.5	20.0	-2.3	30.0
Ethyl acetate	Ave	3.322	3.614		21.8	20.0	8.8	30.0
Chloroform	Ave	2.031	2.104		20.7	20.0	3.6	30.0
Tetrahydrofuran	Ave	1.872	2.052		21.9	20.0	9.6	30.0
1,1,1-Trichloroethane	Ave	2.233	2.340		21.0	20.0	4.8	30.0
Cyclohexane	Ave	0.2909	0.2921		20.1	20.0	0.4	30.0
Carbon tetrachloride	Ave	0.5652	0.5041		17.8	20.0	-10.8	30.0
1,2-Dichloroethane	Ave	0.3747	0.4196		22.4	20.0	12.0	30.0
Benzene	Ave	0.7502	0.7245		19.3	20.0	-3.4	30.0
n-Heptane	Ave	0.7206	0.8178		22.7	20.0	13.5	30.0
Trichloroethene	Ave	0.3601	0.3483		19.3	20.0	-3.3	30.0
1,2-Dichloropropane	Ave	0.1206	0.1316		21.8	20.0	9.1	30.0
Bromodichloromethane	Ave	0.3735	0.3826		20.5	20.0	2.4	30.0
1,4-Dioxane	Ave	0.2064	0.1868		18.1	20.0	-9.5	30.0
NMOC as Hexane	Ave	850.6	852.7		2140	20.0	0.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.126	1.212		21.5	20.0	7.6	30.0
cis-1,3-Dichloropropene	Ave	0.5435	0.5395		19.9	20.0	-0.7	30.0
n-Octane	Ave	1.083	1.148		21.2	20.0	5.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVIS 320-216406/2 Calibration Date: 04/05/2018 11:59

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040502.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.056	1.015		19.2	20.0	-3.8	30.0
trans-1,3-Dichloropropene	Ave	0.4675	0.4427		18.9	20.0	-5.3	30.0
1,1,2-Trichloroethane	Ave	0.3211	0.2920		18.2	20.0	-9.0	30.0
2-Hexanone	Ave	0.4866	0.4663		19.2	20.0	-4.2	30.0
Tetrachloroethene	Ave	0.5198	0.4632		17.8	20.0	-10.9	30.0
Dibromochloromethane	Ave	0.6690	0.6217		18.6	20.0	-7.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.5299	0.4896		18.5	20.0	-7.6	30.0
Chlorobenzene	Ave	0.8779	0.7982		18.2	20.0	-9.1	30.0
n-Nonane	Ave	1.088	1.288		23.7	20.0	18.3	30.0
Ethylbenzene	Ave	1.399	1.350		19.3	20.0	-3.5	30.0
m-Xylene & p-Xylene	Ave	1.083	1.068		39.4	40.0	-1.4	30.0
o-Xylene	Ave	1.078	1.083		20.1	20.0	0.4	30.0
Styrene	Ave	0.8312	0.8614		20.7	20.0	3.6	30.0
Bromoform	Ave	0.6600	0.5998		18.2	20.0	-9.1	30.0
Isopropylbenzene	Ave	0.4124	0.4147		20.1	20.0	0.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7563	0.7013		18.5	20.0	-7.3	30.0
1,2,3-Trichloropropane	Ave	0.2345	0.2257		19.2	20.0	-3.8	30.0
N-Propylbenzene	Ave	1.777	1.802		20.3	20.0	1.4	30.0
4-Ethyltoluene	Ave	0.4537	0.4665		20.6	20.0	2.8	30.0
1,3,5-Trimethylbenzene	Ave	0.6675	0.6537		19.6	20.0	-2.1	30.0
tert-Butylbenzene	Ave	0.9145	0.8931		19.5	20.0	-2.3	30.0
1,2,4-Trimethylbenzene	Ave	0.6060	0.6112		20.2	20.0	0.9	30.0
sec-Butylbenzene	Ave	1.927	1.916		19.9	20.0	-0.6	30.0
4-Isopropyltoluene	Ave	1.647	1.646		20.0	20.0	-0.0	30.0
1,3-Dichlorobenzene	Ave	0.8182	0.8094		19.8	20.0	-1.1	30.0
1,4-Dichlorobenzene	Ave	0.8272	0.8043		19.4	20.0	-2.8	30.0
Benzyl chloride	Ave	1.368	1.134		13.3	16.0	-17.2	30.0
n-Butylbenzene	Ave	0.7556	0.7783		20.6	20.0	3.0	30.0
1,2-Dichlorobenzene	Ave	0.7767	0.7493		19.3	20.0	-3.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5038	0.4339		17.2	20.0	-13.9	30.0
Hexachlorobutadiene	Ave	0.5027	0.4359		17.3	20.0	-13.3	30.0
Naphthalene	Ave	1.469	1.093		14.9	20.0	-25.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3772	0.4379		4.64	4.00	16.1	30.0
Toluene-d8 (Surr)	Ave	0.6967	0.7189		4.13	4.00	3.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7430	0.8219		4.42	4.00	10.6	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040502.D
Lims ID: CCVIS 20ppbv
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Apr-2018 11:59:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:28:56 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: leeh Date: 05-Apr-2018 13:02:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.205	12.205	0.000	92	31631	4.00	4.00	
*	2 1,4-Difluorobenzene	114	14.364	14.364	0.000	97	139106	4.00	4.00	
*	3 Chlorobenzene-d5 (IS)	117	21.044	21.044	0.000	90	157334	4.00	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.409	13.409	0.000	97	60910	4.00	4.64	
$	5 Toluene-d8 (Surr)	100	17.765	17.765	0.000	97	100006	4.00	4.13	
$	6 4-Bromofluorobenzene (Surr	95	23.593	23.593	0.000	88	129305	4.00	4.42	
	11 Propene	41	3.840	3.840	0.000	97	169470	20.0	22.2	
	12 Chlorodifluoromethane	51	3.852	3.852	0.000	93	296381	20.0	21.3	
	13 Dichlorodifluoromethane	85	3.901	3.901	0.000	98	236729	20.0	18.6	
	14 1,2-Dichloro-1,1,2,2-tetra	135	4.150	4.150	0.000	92	227306	20.0	19.8	
	16 Chloromethane	50	4.351	4.351	0.000	99	141781	20.0	20.7	
	17 Butane	43	4.576	4.576	0.000	85	231615	20.0	19.9	
	18 Vinyl chloride	62	4.613	4.613	0.000	98	112154	20.0	18.6	
	19 Butadiene	39	4.692	4.692	0.000	93	126860	20.0	20.8	
	21 Bromomethane	94	5.513	5.513	0.000	98	82822	20.0	18.1	
	22 Chloroethane	64	5.720	5.720	0.000	75	70417	20.0	20.3	
	25 Vinyl bromide	106	6.225	6.225	0.000	98	108523	20.0	19.6	
	26 Trichlorofluoromethane	101	6.377	6.377	0.000	97	374426	20.0	21.4	
	27 Pentane	43	6.444	6.444	0.000	95	396248	20.0	22.3	
	29 Ethyl ether	74	7.058	7.058	0.000	41	67060	20.0	20.1	
	31 Acrolein	56	7.137	7.137	0.000	83	80969	20.0	21.2	
	32 Acetone	43	7.295	7.295	0.000	100	322301	20.0	21.7	
	33 1,1,2-Trichloro-1,2,2-trif	101	7.460	7.460	0.000	97	282437	20.0	19.7	
	34 1,1-Dichloroethene	61	7.691	7.691	0.000	90	269088	20.0	21.3	
	35 Acetonitrile	41	7.733	7.733	0.000	99	185865	20.0	23.5	
	36 2-Methyl-2-propanol	59	7.910	7.910	0.000	92	462239	20.0	19.9	
	38 3-Chloro-1-propene	41	8.463	8.463	0.000	92	278202	20.0	20.5	
	39 Methylene Chloride	49	8.646	8.646	0.000	90	253640	20.0	20.9	
	40 Carbon disulfide	76	8.695	8.695	0.000	96	289833	20.0	19.5	
	41 Acrylonitrile	53	8.804	8.804	0.000	93	167073	20.0	21.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.218	9.218	0.000	91	430512	20.0	20.5	
43 trans-1,2-Dichloroethene	61	9.412	9.412	0.000	91	230074	20.0	20.4	
44 Hexane	41	9.832	9.832	0.000	84	262884	20.0	22.9	
45 1,1-Dichloroethane	63	10.276	10.276	0.000	99	306476	20.0	20.3	
47 Vinyl acetate	43	10.307	10.307	0.000	100	639380	20.0	19.7	
48 2-Butanone (MEK)	72	11.152	11.152	0.000	93	79940	20.0	19.8	
51 cis-1,2-Dichloroethene	96	11.578	11.578	0.000	94	148473	20.0	19.5	
52 Ethyl acetate	43	11.603	11.603	0.000	95	571578	20.0	21.8	
53 Chloroform	83	11.937	11.937	0.000	94	332822	20.0	20.7	
54 Tetrahydrofuran	42	12.375	12.375	0.000	90	324462	20.0	21.9	
55 1,1,1-Trichloroethane	97	12.880	12.880	0.000	96	370156	20.0	21.0	
56 Cyclohexane	84	13.069	13.069	0.000	89	203147	20.0	20.1	
58 Isooctane	57	13.367	13.367	0.000	96	1161755	20.0	20.7	
59 Carbon tetrachloride	117	13.464	13.464	0.000	97	350599	20.0	17.8	
60 n-Butanol	56	13.470	13.470	0.000	74	215212	20.0	19.5	
61 1,2-Dichloroethane	62	13.610	13.610	0.000	96	291858	20.0	22.4	
63 Benzene	78	13.744	13.744	0.000	96	503940	20.0	19.3	
64 n-Heptane	43	13.902	13.902	0.000	88	568785	20.0	22.7	
65 Trichloroethene	130	15.131	15.131	0.000	96	242269	20.0	19.3	
66 1,2-Dichloropropane	76	15.435	15.435	0.000	83	91496	20.0	21.8	
67 Methyl methacrylate	69	15.593	15.593	0.000	85	208050	20.0	20.8	
68 Dichlorobromomethane	85	15.891	15.891	0.000	97	266127	20.0	20.5	
69 1,4-Dioxane	88	15.910	15.910	0.000	70	129902	20.0	18.1	
70 Dibromomethane	174	15.952	15.952	0.000	98	208766	20.0	18.1	
71 4-Methyl-2-pentanone (MIBK	43	16.743	16.743	0.000	96	842811	20.0	21.5	
72 cis-1,3-Dichloropropene	75	17.120	17.120	0.000	94	375260	20.0	19.9	
73 n-Octane	43	17.802	17.802	0.000	95	902738	20.0	21.2	
75 Toluene	91	17.936	17.936	0.000	94	706012	20.0	19.2	
76 trans-1,3-Dichloropropene	75	18.221	18.221	0.000	92	348270	20.0	18.9	
77 1,1,2-Trichloroethane	97	18.562	18.562	0.000	96	229721	20.0	18.2	
78 2-Hexanone	58	18.684	18.684	0.000	88	366794	20.0	19.2	
80 Tetrachloroethene	166	19.450	19.450	0.000	94	364385	20.0	17.8	
81 Chlorodibromomethane	129	19.675	19.675	0.000	97	489082	20.0	18.6	
82 Ethylene Dibromide	107	20.126	20.126	0.000	98	385162	20.0	18.5	
83 Chlorobenzene	112	21.123	21.123	0.000	91	627919	20.0	18.2	
84 n-Nonane	43	21.190	21.190	0.000	91	1013336	20.0	23.7	
86 Ethylbenzene	91	21.300	21.300	0.000	99	1061742	20.0	19.3	
87 m-Xylene & p-Xylene	91	21.482	21.482	0.000	98	1679904	40.0	39.4	
88 o-Xylene	91	22.383	22.383	0.000	97	851595	20.0	20.1	
89 Styrene	104	22.413	22.413	0.000	97	677600	20.0	20.7	
90 Bromoform	173	22.979	22.979	0.000	95	471824	20.0	18.2	
92 Isopropylbenzene	120	23.167	23.167	0.000	97	326217	20.0	20.1	
93 1,1,2,2-Tetrachloroethane	83	23.362	23.362	0.000	99	551662	20.0	18.5	
97 1,2,3-Trichloropropane	110	23.666	23.666	0.000	93	177561	20.0	19.2	
99 N-Propylbenzene	91	24.007	24.007	0.000	98	1417917	20.0	20.3	
101 n-Decane	57	24.019	24.019	0.000	82	901745	20.0	21.9	
102 4-Ethyltoluene	120	24.244	24.244	0.000	98	366993	20.0	20.6	
103 2-Chlorotoluene	126	24.317	24.317	0.000	98	291134	20.0	19.4	
104 1,3,5-Trimethylbenzene	120	24.342	24.342	0.000	93	514240	20.0	19.6	
105 Alpha Methyl Styrene	118	24.919	24.919	0.000	93	512033	20.0	20.8	
106 tert-Butylbenzene	91	25.072	25.072	0.000	92	702573	20.0	19.5	
107 1,2,4-Trimethylbenzene	120	25.138	25.138	0.000	98	480841	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.516	25.516	0.000	98	1507215	20.0	19.9	
109 4-Isopropyltoluene	119	25.796	25.796	0.000	97	1295239	20.0	20.0	
110 1,3-Dichlorobenzene	146	25.899	25.899	0.000	98	636694	20.0	19.8	
111 1,4-Dichlorobenzene	146	26.100	26.100	0.000	92	632679	20.0	19.4	
113 Benzyl chloride	91	26.270	26.270	0.000	98	713384	16.0	13.3	
114 Undecane	57	26.471	26.471	0.000	87	881589	20.0	19.4	
115 n-Butylbenzene	92	26.623	26.623	0.000	98	612288	20.0	20.6	
116 1,2-Dichlorobenzene	146	26.830	26.830	0.000	94	589429	20.0	19.3	
118 Dodecane	57	28.649	28.649	0.000	86	592526	20.0	17.5	
119 1,2,4-Trichlorobenzene	180	30.145	30.145	0.000	94	341331	20.0	17.2	
120 Hexachlorobutadiene	225	30.510	30.510	0.000	95	342933	20.0	17.3	
121 Naphthalene	128	30.602	30.602	0.000	98	859712	20.0	14.9	
122 1,2,3-Trichlorobenzene	180	31.113	31.113	0.000	94	281529	20.0	16.4	
A 139 C6 Range	1	9.881	(9.635-10.127)		0	1282951	20.0	20.4	
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.609)		0	134860463	20.0	2140.3	E
A 146 Total VOC as Hexane	1	16.257	(3.834-28.609)		0	134860463	20.0	2140.3	E
A 147 TVOC as Toluene	1	16.500	(3.691-29.308)		0	136068541	20.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.500	(3.691-29.308)		0	136068541	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1210486	NC	NC	
A 149 PCE Range	1	19.475	(19.265-19.684)		0	3481717	NC	NC	
S 150 Xylenes, Total	91				0		60.0	59.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

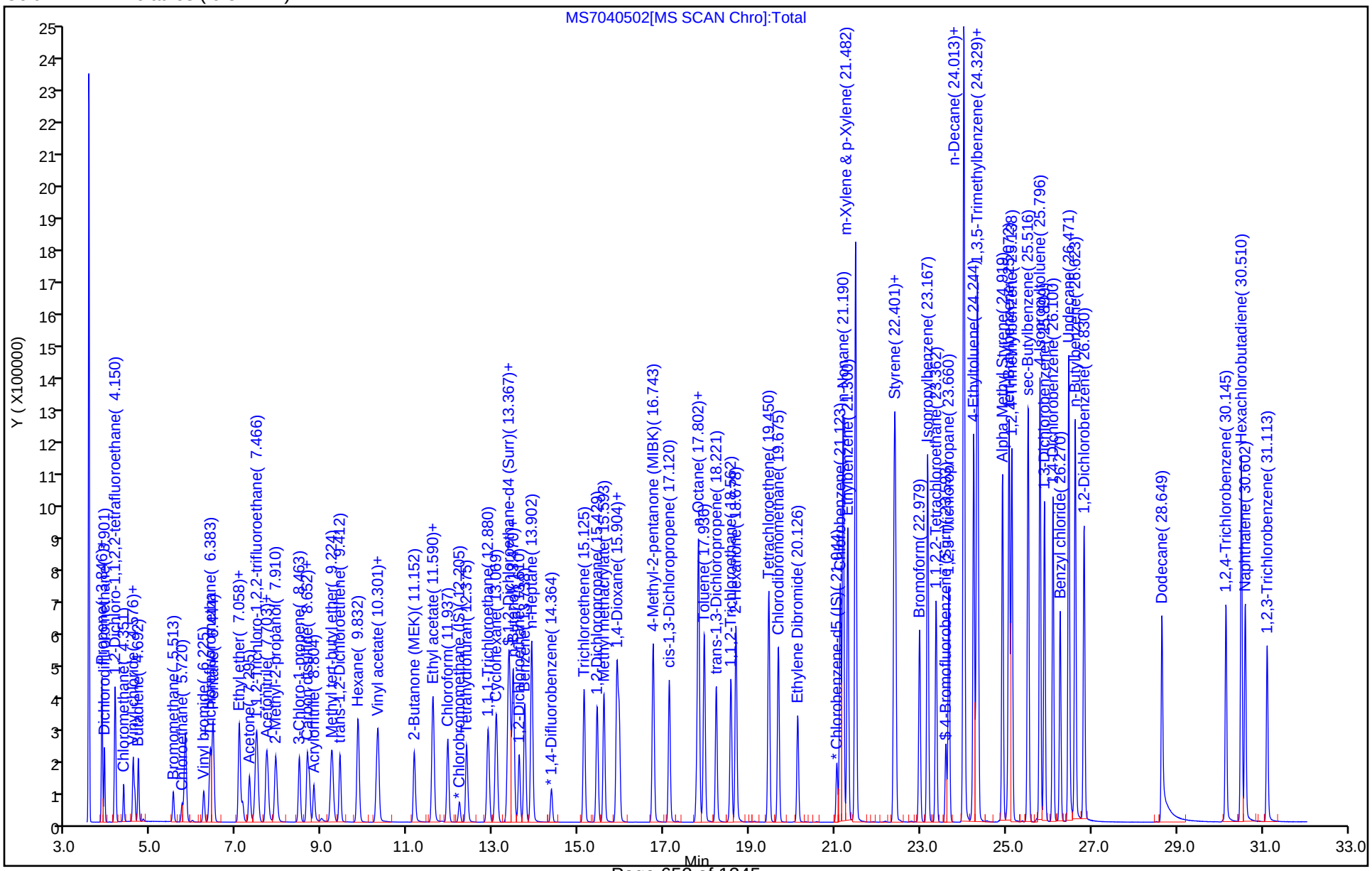
Report Date: 06-Apr-2018 11:28:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040502.D

Injection Date:	05-Apr-2018 11:59:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	CCVIS 20ppbv			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 06-Apr-2018 11:28:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040502.D

Injection Date: 05-Apr-2018 11:59:30 Instrument ID: ATMS7

Lims ID: CCVIS 20ppbv

Client ID:

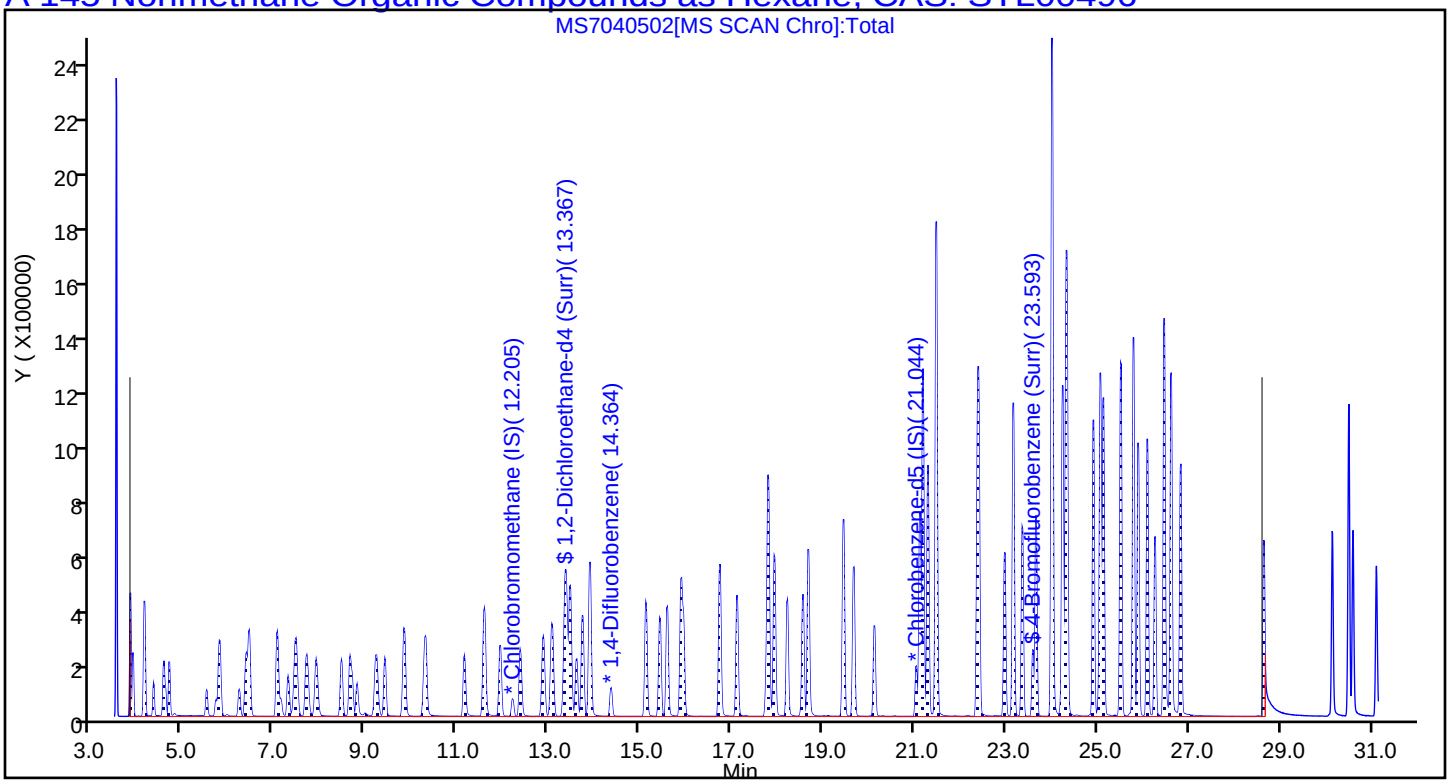
Operator ID: LHS ALS Bottle#: 2 Worklist Smp#: 2

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVC 320-216406/27 Calibration Date: 04/06/2018 10:17

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040526.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	0.9637	1.112		23.1	20.0	15.3	30.0
Dichlorodifluoromethane	Ave	1.612	1.571		19.5	20.0	-2.6	30.0
Dichlorotetrafluoroethane(F-114)	Ave	1.454	1.464		20.1	20.0	0.6	30.0
Chloromethane	Ave	0.8644	0.9212		21.3	20.0	6.6	30.0
Vinyl chloride	Ave	0.7613	0.7543		19.8	20.0	-0.9	30.0
Butadiene	Ave	0.7696	0.9038		23.5	20.0	17.4	30.0
Bromomethane	Ave	0.5779	0.5868		20.3	20.0	1.5	30.0
Chloroethane	Ave	0.4386	0.4556		20.8	20.0	3.9	30.0
Trichlorofluoromethane	Ave	2.208	2.492		22.6	20.0	12.8	30.0
Acetone	Ave	1.879	2.147		22.9	20.0	14.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.814	1.859		20.5	20.0	2.5	30.0
1,1-Dichloroethene	Ave	1.598	1.775		22.2	20.0	11.0	30.0
tert-Butyl alcohol (TBA)	Ave	2.944	2.924		19.9	20.0	-0.7	30.0
Methylene Chloride	Ave	1.534	1.695		22.1	20.0	10.5	30.0
Carbon disulfide	Ave	1.877	1.882		20.0	20.0	0.2	30.0
Acrylonitrile	Ave	0.997	1.093		21.9	20.0	9.6	30.0
Methyl tert-butyl ether	Ave	2.656	2.807		21.1	20.0	5.7	30.0
trans-1,2-Dichloroethene	Ave	1.428	1.515		21.2	20.0	6.1	30.0
Hexane	Ave	1.453	1.768		24.3	20.0	21.6	30.0
1,1-Dichloroethane	Ave	1.906	2.008		21.1	20.0	5.4	30.0
Vinyl acetate	Ave	4.105	4.162		20.3	20.0	1.4	30.0
2-Butanone (MEK)	Ave	0.5112	0.5099		20.0	20.0	-0.2	30.0
cis-1,2-Dichloroethene	Ave	0.9609	0.9470		19.7	20.0	-1.4	30.0
Ethyl acetate	Ave	3.322	3.770		22.7	20.0	13.5	30.0
Chloroform	Ave	2.031	2.168		21.3	20.0	6.7	30.0
Tetrahydrofuran	Ave	1.872	2.144		22.9	20.0	14.6	30.0
1,1,1-Trichloroethane	Ave	2.233	2.442		21.9	20.0	9.3	30.0
Cyclohexane	Ave	0.2909	0.2914		20.0	20.0	0.2	30.0
Carbon tetrachloride	Ave	0.5652	0.5060		17.9	20.0	-10.5	30.0
1,2-Dichloroethane	Ave	0.3747	0.4245		22.7	20.0	13.3	30.0
Benzene	Ave	0.7502	0.7190		19.2	20.0	-4.2	30.0
n-Heptane	Ave	0.7206	0.8294		23.0	20.0	15.1	30.0
Trichloroethene	Ave	0.3601	0.3444		19.1	20.0	-4.4	30.0
1,2-Dichloropropane	Ave	0.1206	0.1337		22.2	20.0	10.9	30.0
Bromodichloromethane	Ave	0.3735	0.3791		20.3	20.0	1.5	30.0
1,4-Dioxane	Ave	0.2064	0.1846		17.9	20.0	-10.6	30.0
NMOC as Hexane	Ave	850.6	875.6		2200	20.0	2.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.126	1.217		21.6	20.0	8.1	30.0
cis-1,3-Dichloropropene	Ave	0.5435	0.5314		19.6	20.0	-2.2	30.0
n-Octane	Ave	1.083	1.169		21.6	20.0	7.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVC 320-216406/27 Calibration Date: 04/06/2018 10:17

Instrument ID: ATMS7 Calib Start Date: 03/14/2018 17:28

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 03/15/2018 07:51

Lab File ID: MS7040526.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.056	1.006		19.1	20.0	-4.7	30.0
trans-1,3-Dichloropropene	Ave	0.4675	0.4430		19.0	20.0	-5.2	30.0
1,1,2-Trichloroethane	Ave	0.3211	0.2849		17.7	20.0	-11.3	30.0
2-Hexanone	Ave	0.4866	0.4539		18.7	20.0	-6.7	30.0
Tetrachloroethene	Ave	0.5198	0.4542		17.5	20.0	-12.6	30.0
Dibromochloromethane	Ave	0.6690	0.6162		18.4	20.0	-7.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.5299	0.4788		18.1	20.0	-9.6	30.0
Chlorobenzene	Ave	0.8779	0.7905		18.0	20.0	-10.0	30.0
n-Nonane	Ave	1.088	1.311		24.1	20.0	20.4	30.0
Ethylbenzene	Ave	1.399	1.335		19.1	20.0	-4.6	30.0
m-Xylene & p-Xylene	Ave	1.083	1.056		39.0	40.0	-2.5	30.0
o-Xylene	Ave	1.078	1.070		19.8	20.0	-0.8	30.0
Styrene	Ave	0.8312	0.8486		20.4	20.0	2.1	30.0
Bromoform	Ave	0.6600	0.5907		17.9	20.0	-10.5	30.0
Isopropylbenzene	Ave	0.4124	0.4091		19.8	20.0	-0.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7563	0.6895		18.2	20.0	-8.8	30.0
1,2,3-Trichloropropane	Ave	0.2345	0.2225		19.0	20.0	-5.1	30.0
N-Propylbenzene	Ave	1.777	1.794		20.2	20.0	0.9	30.0
4-Ethyltoluene	Ave	0.4537	0.4660		20.5	20.0	2.7	30.0
1,3,5-Trimethylbenzene	Ave	0.6675	0.6346		19.0	20.0	-4.9	30.0
tert-Butylbenzene	Ave	0.9145	0.8834		19.3	20.0	-3.4	30.0
1,2,4-Trimethylbenzene	Ave	0.6060	0.6111		20.2	20.0	0.8	30.0
sec-Butylbenzene	Ave	1.927	1.903		19.7	20.0	-1.3	30.0
4-Isopropyltoluene	Ave	1.647	1.641		19.9	20.0	-0.3	30.0
1,3-Dichlorobenzene	Ave	0.8182	0.7966		19.5	20.0	-2.6	30.0
1,4-Dichlorobenzene	Ave	0.8272	0.7824		18.9	20.0	-5.4	30.0
Benzyl chloride	Ave	1.368	1.061		12.4	16.0	-22.5	30.0
n-Butylbenzene	Ave	0.7556	0.7756		20.5	20.0	2.6	30.0
1,2-Dichlorobenzene	Ave	0.7767	0.7373		19.0	20.0	-5.1	30.0
1,2,4-Trichlorobenzene	Ave	0.5038	0.4320		17.1	20.0	-14.3	30.0
Hexachlorobutadiene	Ave	0.5027	0.4351		17.3	20.0	-13.5	30.0
Naphthalene	Ave	1.469	1.080		14.7	20.0	-26.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3772	0.4524		4.80	4.00	19.9	30.0
Toluene-d8 (Surr)	Ave	0.6967	0.7272		4.17	4.00	4.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7430	0.8062		4.34	4.00	8.5	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040526.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 06-Apr-2018 10:17:30 ALS Bottle#: 2 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7
Sublist: chrom-TO15_ATMS7N*sub4

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:42:05 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: leeh Date: 06-Apr-2018 11:41:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.260	12.223	0.037	92	29499	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.420	14.383	0.037	89	133159	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.081	21.063	0.018	91	150885	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.464	13.462	0.036	97	60240	4.00	4.80	
$ 5 Toluene-d8 (Surr)	100	17.814	17.829	0.030	97	96835	4.00	4.17	
$ 6 4-Bromofluorobenzene (Surr	95	23.624	23.626	0.018	88	121650	4.00	4.34	
11 Propene	41	3.858	3.852	0.018	98	163942	20.0	23.1	
12 Chlorodifluoromethane	51	3.877	3.864	0.025	92	295195	20.0	22.7	
13 Dichlorodifluoromethane	85	3.925	3.919	0.018	98	231718	20.0	19.5	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.181	4.169	0.025	93	215879	20.0	20.1	
16 Chloromethane	50	4.382	4.370	0.025	99	135866	20.0	21.3	
17 Butane	43	4.601	4.596	0.019	84	242463	20.0	22.3	
18 Vinyl chloride	62	4.643	4.633	0.024	98	111252	20.0	19.8	
19 Butadiene	39	4.728	4.718	0.024	91	133303	20.0	23.5	
21 Bromomethane	94	5.550	5.536	0.031	97	86545	20.0	20.3	
22 Chloroethane	64	5.750	5.743	0.024	74	67201	20.0	20.8	
25 Vinyl bromide	106	6.262	6.256	0.025	98	104778	20.0	20.2	
26 Trichlorofluoromethane	101	6.420	6.408	0.031	98	367515	20.0	22.6	
27 Pentane	43	6.481	6.469	0.030	95	389662	20.0	23.6	
29 Ethyl ether	74	7.089	7.079	0.031	31	64251	20.0	20.7	
31 Acrolein	56	7.180	7.165	0.036	83	77672	20.0	21.8	
32 Acetone	43	7.332	7.324	0.030	100	316714	20.0	22.9	
33 1,1,2-Trichloro-1,2,2-trif	101	7.503	7.494	0.031	96	274207	20.0	20.5	
34 1,1-Dichloroethene	61	7.734	7.726	0.031	90	261790	20.0	22.2	
35 Acetonitrile	41	7.770	7.763	0.030	99	182728	20.0	24.8	
36 2-Methyl-2-propanol	59	7.947	7.946	0.025	92	431325	20.0	19.9	
38 3-Chloro-1-propene	41	8.506	8.501	0.030	92	271818	20.0	21.5	
39 Methylene Chloride	49	8.689	8.684	0.031	90	249984	20.0	22.1	
40 Carbon disulfide	76	8.744	8.733	0.037	95	277579	20.0	20.0	
41 Acrylonitrile	53	8.847	8.843	0.030	94	161156	20.0	21.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
42 Methyl tert-butyl ether	73	9.267	9.264	0.031	91	414002	20.0	21.1	
43 trans-1,2-Dichloroethene	61	9.461	9.459	0.030	91	223475	20.0	21.2	
44 Hexane	41	9.881	9.880	0.030	82	260765	20.0	24.3	
45 1,1-Dichloroethane	63	10.319	10.319	0.030	99	296239	20.0	21.1	
47 Vinyl acetate	43	10.356	10.356	0.031	100	613849	20.0	20.3	
48 2-Butanone (MEK)	72	11.195	11.204	0.024	93	75212	20.0	20.0	
51 cis-1,2-Dichloroethene	96	11.621	11.625	0.030	93	139681	20.0	19.7	
52 Ethyl acetate	43	11.645	11.650	0.030	95	556009	20.0	22.7	
53 Chloroform	83	11.986	11.991	0.030	94	319825	20.0	21.3	
54 Tetrahydrofuran	42	12.424	12.431	0.030	89	316251	20.0	22.9	
55 1,1,1-Trichloroethane	97	12.935	12.937	0.036	96	360202	20.0	21.9	
56 Cyclohexane	84	13.124	13.120	0.037	88	193998	20.0	20.0	
58 Isooctane	57	13.422	13.419	0.037	96	1112119	20.0	20.7	
59 Carbon tetrachloride	117	13.519	13.517	0.036	97	336892	20.0	17.9	
60 n-Butanol	56	13.519	13.529	0.030	75	183267	20.0	17.8	
61 1,2-Dichloroethane	62	13.659	13.663	0.030	96	282611	20.0	22.7	
63 Benzene	78	13.793	13.791	0.037	96	478713	20.0	19.2	
64 n-Heptane	43	13.951	13.956	0.030	88	552217	20.0	23.0	
65 Trichloroethene	130	15.180	15.188	0.030	96	229313	20.0	19.1	
66 1,2-Dichloropropane	76	15.484	15.487	0.036	85	89042	20.0	22.2	
67 Methyl methacrylate	69	15.636	15.652	0.024	84	195128	20.0	20.4	
68 Dichlorobromomethane	85	15.947	15.956	0.031	96	252404	20.0	20.3	
69 1,4-Dioxane	88	15.959	15.969	0.031	70	122903	20.0	17.9	
70 Dibromomethane	174	16.001	16.011	0.030	98	194713	20.0	17.6	
71 4-Methyl-2-pentanone (MIBK	43	16.792	16.804	0.030	96	810370	20.0	21.6	
72 cis-1,3-Dichloropropene	75	17.169	17.182	0.030	93	353787	20.0	19.6	
73 n-Octane	43	17.851	17.865	0.031	95	882082	20.0	21.6	
75 Toluene	91	17.985	18.006	0.025	92	669966	20.0	19.1	
76 trans-1,3-Dichloropropene	75	18.264	18.256	0.024	91	334220	20.0	19.0	
77 1,1,2-Trichloroethane	97	18.605	18.597	0.024	95	214941	20.0	17.7	
78 2-Hexanone	58	18.721	18.712	0.025	87	342409	20.0	18.7	
80 Tetrachloroethene	166	19.487	19.486	0.018	93	342643	20.0	17.5	
81 Chlorodibromomethane	129	19.712	19.711	0.018	96	464863	20.0	18.4	
82 Ethylene Dibromide	107	20.162	20.162	0.018	97	361185	20.0	18.1	
83 Chlorobenzene	112	21.160	21.160	0.018	90	596360	20.0	18.0	
84 n-Nonane	43	21.221	21.257	0.018	90	988777	20.0	24.1	
86 Ethylbenzene	91	21.331	21.331	0.018	98	1006943	20.0	19.1	
87 m-Xylene & p-Xylene	91	21.513	21.513	0.018	98	1593142	40.0	39.0	
88 o-Xylene	91	22.413	22.421	0.012	96	807059	20.0	19.8	
89 Styrene	104	22.444	22.451	0.012	96	640222	20.0	20.4	
90 Bromoform	173	23.010	23.017	0.013	95	445649	20.0	17.9	
92 Isopropylbenzene	120	23.198	23.200	0.018	97	308621	20.0	19.8	
93 1,1,2,2-Tetrachloroethane	83	23.393	23.401	0.012	98	520145	20.0	18.2	
97 1,2,3-Trichloropropane	110	23.697	23.699	0.018	92	167845	20.0	19.0	
99 N-Propylbenzene	91	24.038	24.046	0.013	98	1353530	20.0	20.2	
101 n-Decane	57	24.050	24.058	0.012	81	863783	20.0	21.8	
102 4-Ethyltoluene	120	24.275	24.284	0.012	99	351588	20.0	20.5	
103 2-Chlorotoluene	126	24.348	24.357	0.012	98	279260	20.0	19.4	
104 1,3,5-Trimethylbenzene	120	24.372	24.381	0.012	91	478778	20.0	19.0	
105 Alpha Methyl Styrene	118	24.944	24.954	0.012	86	487105	20.0	20.6	
106 tert-Butylbenzene	91	25.102	25.112	0.012	92	666424	20.0	19.3	
107 1,2,4-Trimethylbenzene	120	25.163	25.173	0.012	99	461045	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
108 sec-Butylbenzene	105	25.546	25.556	0.012	98	1435542	20.0	19.7	
109 4-Isopropyltoluene	119	25.826	25.836	0.012	97	1238162	20.0	19.9	
110 1,3-Dichlorobenzene	146	25.930	25.940	0.013	97	600995	20.0	19.5	
111 1,4-Dichlorobenzene	146	26.130	26.135	0.018	92	590224	20.0	18.9	
113 Benzyl chloride	91	26.295	26.305	0.013	97	640427	16.0	12.4	
114 Undecane	57	26.495	26.506	0.012	87	855306	20.0	19.6	
115 n-Butylbenzene	92	26.648	26.658	0.013	98	585108	20.0	20.5	
116 1,2-Dichlorobenzene	146	26.854	26.865	0.012	96	556263	20.0	19.0	
118 Dodecane	57	28.673	28.686	0.012	86	529723	20.0	16.3	
119 1,2,4-Trichlorobenzene	180	30.176	30.190	0.012	94	325894	20.0	17.1	
120 Hexachlorobutadiene	225	30.535	30.549	0.012	97	328240	20.0	17.3	
121 Naphthalene	128	30.626	30.641	0.012	98	814857	20.0	14.7	
122 1,2,3-Trichlorobenzene	180	31.137	31.152	0.012	94	265670	20.0	16.1	
A 139 C6 Range	1	9.881	(9.635-10.127)		0	1253863	20.0	21.3	
A 146 Total VOC as Hexane	1	16.257	(3.834-28.679)		0	129139361	20.0	2197.6	E
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.679)		0	129139361	20.0	2197.6	E
A 144 Total VOCs as Tetrachloroe	1	16.500	(3.691-29.308)		0	130648753	20.0	0	
A 147 TVOC as Toluene	1	16.500	(3.691-29.308)		0	130648753	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1333591	NC	NC	
A 149 PCE Range	1	19.438	(19.265-19.611)		0	2187946	NC	NC	
S 150 Xylenes, Total	91				0		60.0	58.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

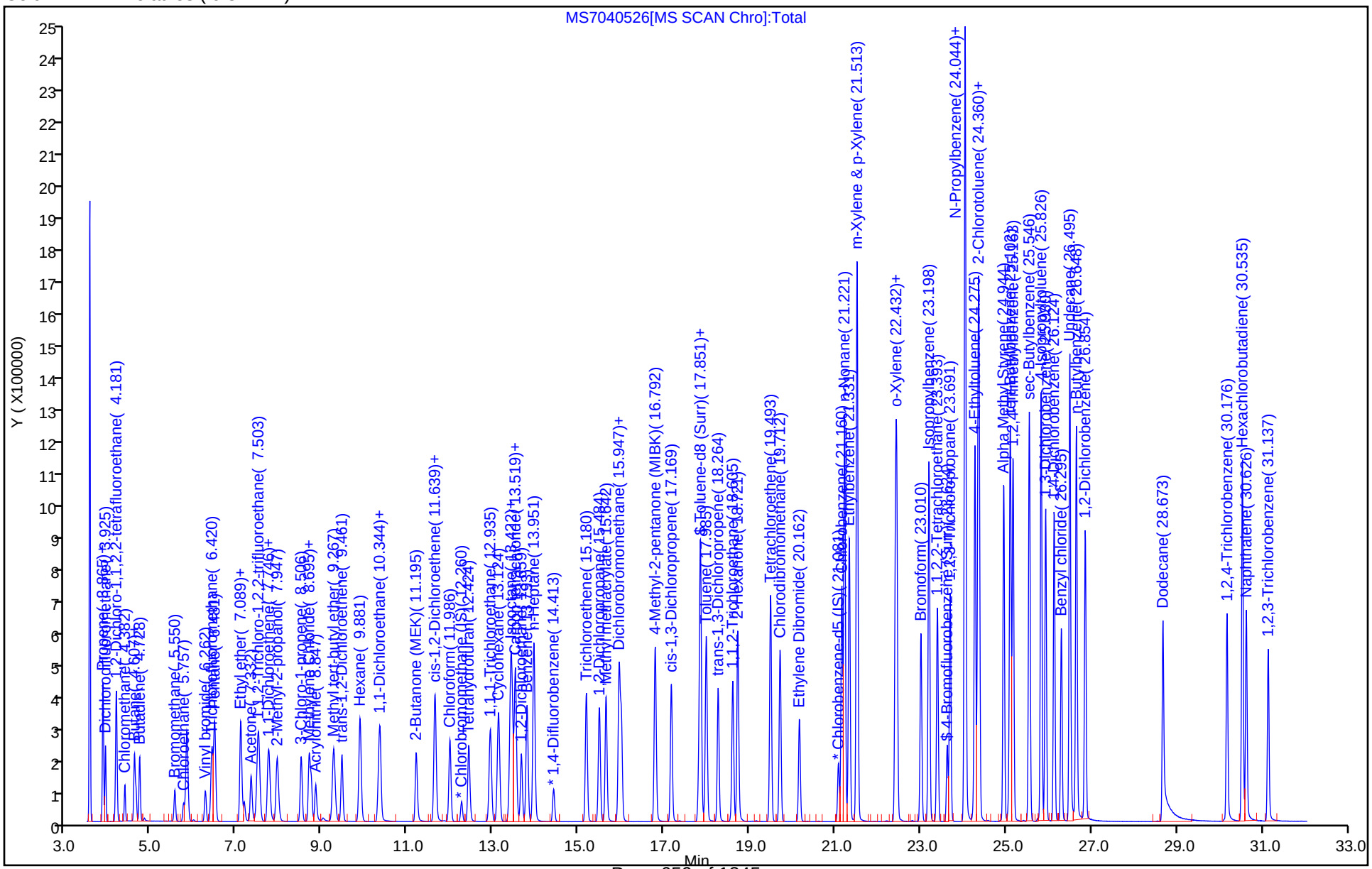
Report Date: 06-Apr-2018 11:42:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040526.D

Injection Date:	06-Apr-2018 10:17:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	CCVC			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



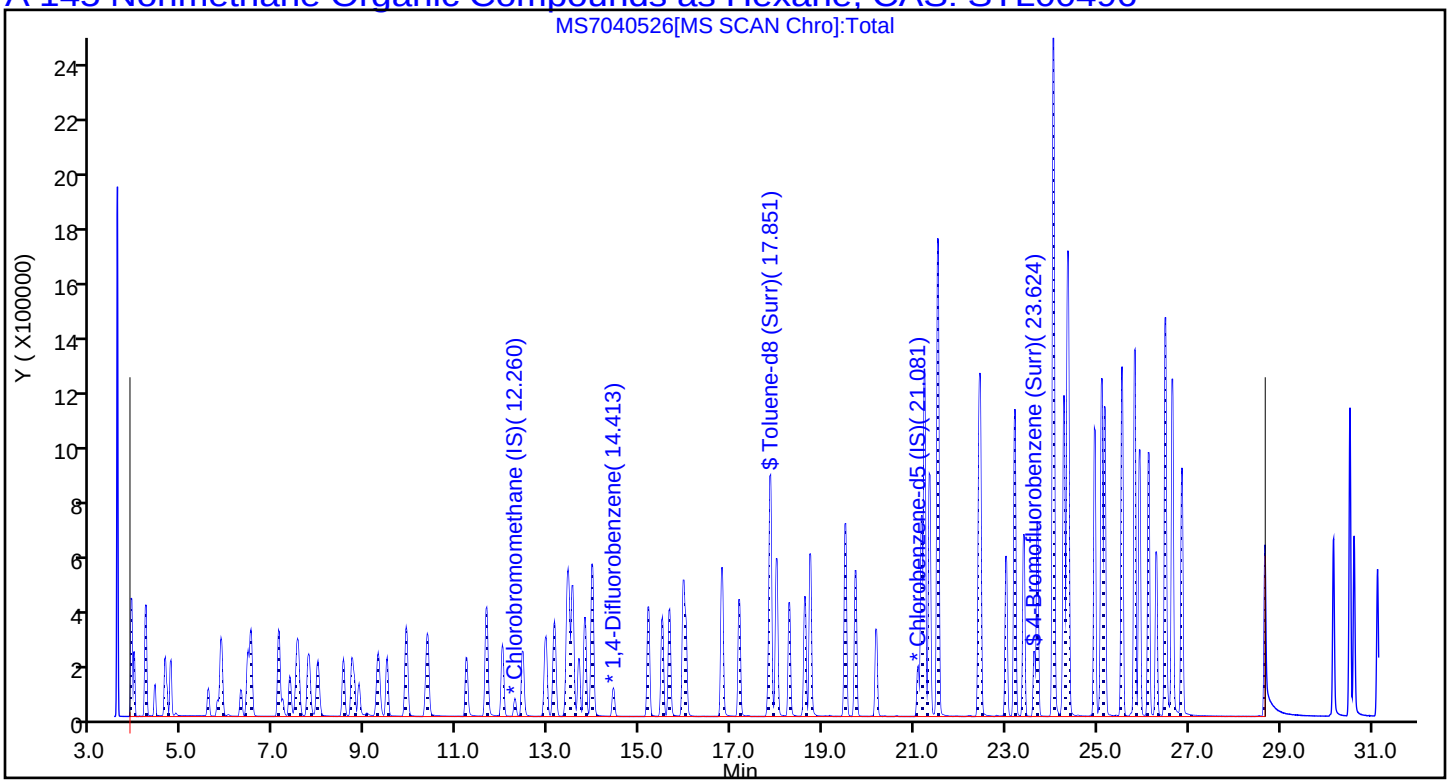
Report Date: 06-Apr-2018 11:42:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040526.D

Injection Date:	06-Apr-2018 10:17:30	Instrument ID:	ATMS7		
Lims ID:	CCVC				
Client ID:					
Operator ID:	LHS	ALS Bottle#:	2	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

A 145 Nonmethane Organic Compounds as Hexane, CAS: STL00496



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031401.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Mar-2018 14:31:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 250.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 24mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Mar-2018 11:13:16 Calib Date: 15-Mar-2018 07:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031414.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: leeh Date: 15-Mar-2018 06:20:36

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.229	12.229	0.000	96	277590	4.00	4.00	s
*	2 1,4-Difluorobenzene	114	14.383	14.383	0.000	95	1217822	4.00	4.00	s
*	3 Chlorobenzene-d5 (IS)	117	21.057	21.057	0.000	89	1227124	4.00	4.00	s
$	4 1,2-Dichloroethane-d4 (Sur	65	13.434	13.434	0.000	95	428658	4.00	3.73	
$	5 Toluene-d8 (Surr)	100	17.784	17.784	0.000	98	834598	4.00	3.93	
$	6 4-Bromofluorobenzene (Surr	95	23.606	23.606	0.000	90	855125	4.00	3.75	
$	7 BFB									

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
s - Failed ISTD Recovery Test

Reagents:

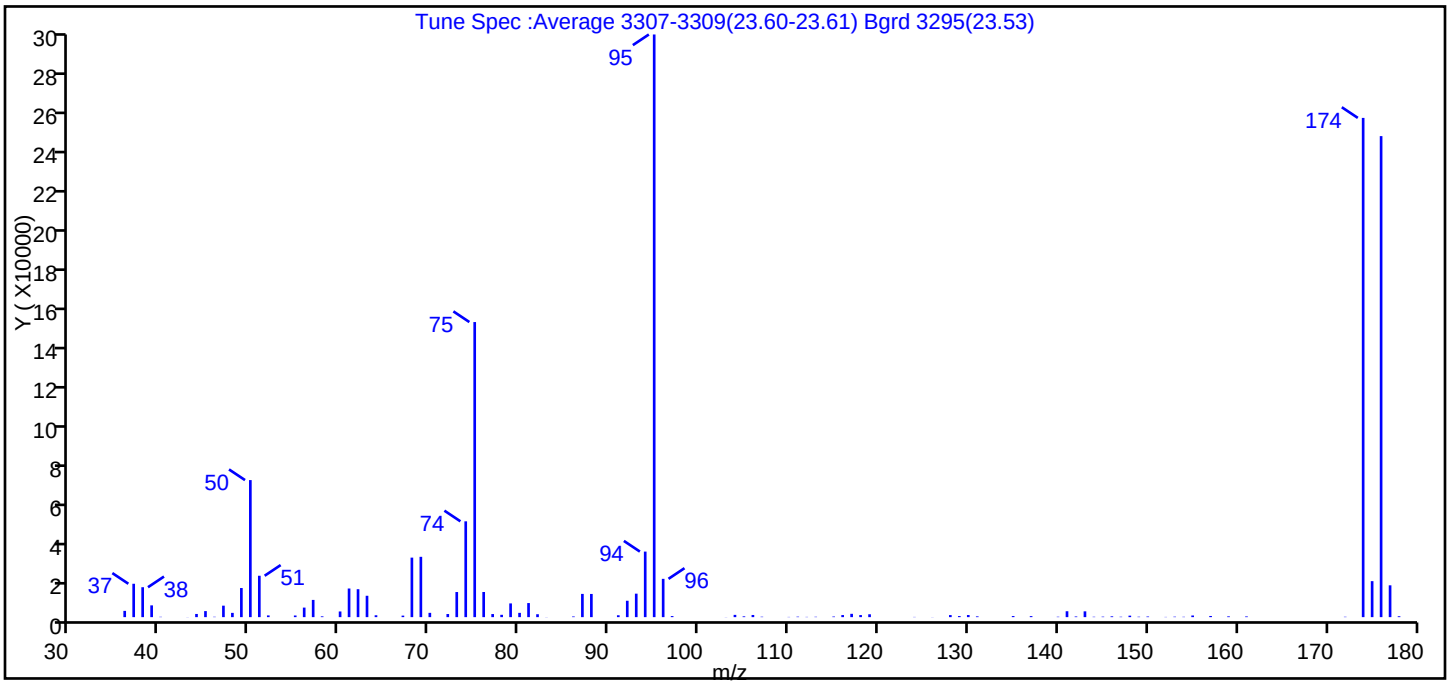
**VAMBFB_00034	Amount Added: 24.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

MS Tune Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031401.D
Injection Date: 14-Mar-2018 14:31:30 Instrument ID: ATMS7
Lims ID: BFB
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 250.0 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Tune Method: BFB Method TO-15

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	23.5
75	30.0 to 66.0 Percent of m/e 95	50.6
96	5.0 to 9.0 Percent of m/e 95	6.6
173	Less than 2.0 Percent of m/e 174	0.0 (0.0)
174	50.0 to 120.0 Percent of m/e 95	85.7
175	4.0 to 9.0 Percent of m/e 174	6.2 (7.2)
176	93.0 to 101.0 Percent of m/e 174	82.6 (96.4)
177	5.0 to 9.0 Percent of m/e 176	5.5 (6.6)

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031401.D\TO15_ATMS7N.rslt\spectr
Injection Date: 14-Mar-2018 14:31:30
Spectrum: Tune Spec :Average 3307-3309(23.60-23.61) Bgrd 3295(23.53)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3145	67.00	766	96.00	19248	140.00	206
37.00	16776	68.00	29912	97.00	531	141.00	2969
38.00	15035	69.00	30312	103.00	56	142.00	338
39.00	5916	70.00	2163	104.00	1141	143.00	2916
40.00	166	72.00	1565	105.00	395	144.00	193
43.00	52	73.00	12619	106.00	1086	145.00	245
44.00	1601	74.00	48152	107.00	214	146.00	405
45.00	3033	75.00	148288	110.00	111	147.00	201
46.00	181	76.00	12635	111.00	242	148.00	746
47.00	5767	77.00	1558	112.00	126	149.00	213
48.00	2144	78.00	1174	113.00	188	150.00	312
49.00	14633	79.00	6900	115.00	306	152.00	113
50.00	68872	80.00	2152	116.00	1046	153.00	233
51.00	20800	81.00	7076	117.00	1669	154.00	175
52.00	866	82.00	1461	118.00	1041	155.00	829
55.00	826	83.00	61	119.00	1442	157.00	583
56.00	4798	86.00	336	124.00	110	159.00	388
57.00	8660	87.00	11681	126.00	56	161.00	360
58.00	398	88.00	11655	128.00	1031	172.00	185
60.00	2851	91.00	944	129.00	538	174.00	250880
61.00	14390	92.00	8232	130.00	1057	175.00	18088
62.00	14043	93.00	11799	131.00	389	176.00	241728
63.00	10739	94.00	32944	135.00	545	177.00	15993
64.00	945	95.00	292800	137.00	513	178.00	443

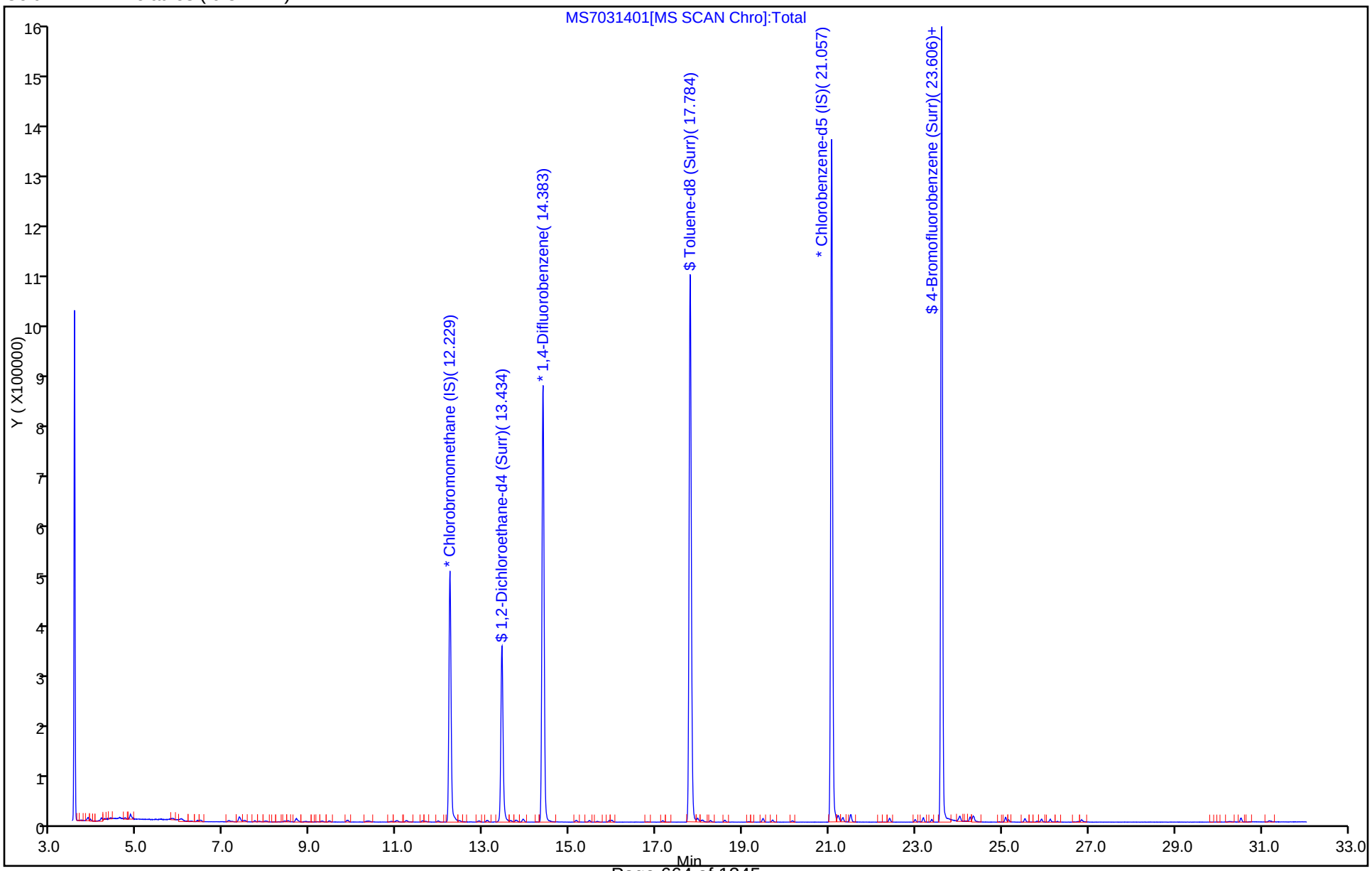
Report Date: 15-Mar-2018 11:13:17 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180314-55303.b\MS7031401.D

Injection Date:	14-Mar-2018 14:31:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	250.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040401.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 04-Apr-2018 09:47:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 250.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 24mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:20:40 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:20:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.254	12.254	0.000	93	239776	4.00	4.00	s
* 2 1,4-Difluorobenzene	114	14.407	14.407	0.000	96	1058337	4.00	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	21.081	21.081	0.000	92	1095579	4.00	4.00	s
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.452	13.452	0.000	97	419240	4.00	4.20	
$ 5 Toluene-d8 (Surr)	100	17.802	17.802	0.000	97	738076	4.00	4.00	
$ 6 4-Bromofluorobenzene (Surr	95	23.624	23.624	0.000	91	784665	4.00	3.86	
$ 7 BFB									

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
s - Failed ISTD Recovery Test

Reagents:

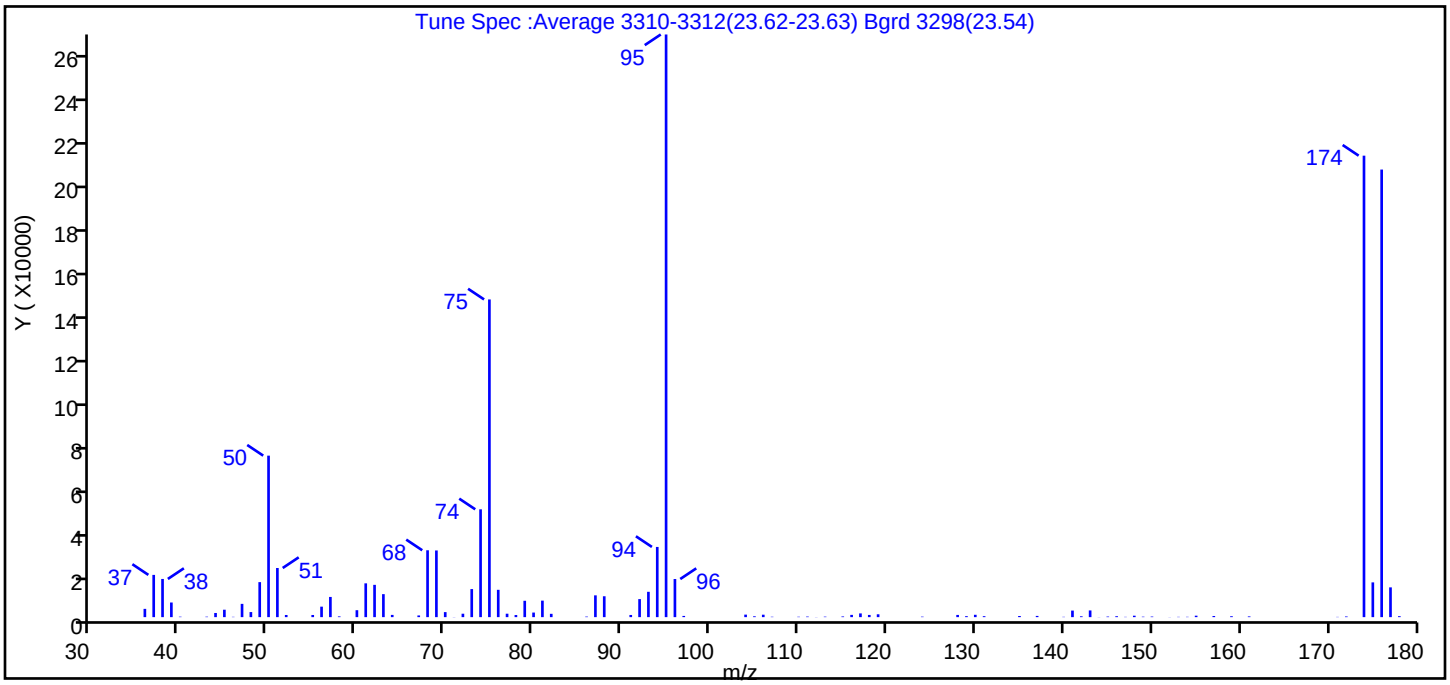
**VAMBFB_00034	Amount Added: 24.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

MS Tune Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040401.D
Injection Date: 04-Apr-2018 09:47:30 Instrument ID: ATMS7
Lims ID: BFB
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 250.0 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Tune Method: BFB Method TO-15

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	27.7
75	30.0 to 66.0 Percent of m/e 95	54.5
96	5.0 to 9.0 Percent of m/e 95	6.5
173	Less than 2.0 Percent of m/e 174	0.0 (0.0)
174	50.0 to 120.0 Percent of m/e 95	79.2
175	4.0 to 9.0 Percent of m/e 174	6.0 (7.5)
176	93.0 to 101.0 Percent of m/e 174	76.8 (97.0)
177	5.0 to 9.0 Percent of m/e 176	5.1 (6.7)

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040401.D\TO15_ATMS7N.rslt\spectr
Injection Date: 04-Apr-2018 09:47:30
Spectrum: Tune Spec :Average 3310-3312(23.62-23.63) Bgrd 3298(23.54)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3777	67.00	770	96.00	17392	142.00	382
37.00	19280	68.00	30512	97.00	554	143.00	3058
38.00	17424	69.00	30424	104.00	1150	144.00	55
39.00	6683	70.00	2295	105.00	386	145.00	266
40.00	209	71.00	65	106.00	1116	146.00	424
43.00	213	72.00	1565	107.00	179	147.00	130
44.00	1899	73.00	12800	110.00	182	148.00	659
45.00	3391	74.00	49200	111.00	263	149.00	209
46.00	141	75.00	144960	112.00	58	150.00	264
47.00	6059	76.00	12469	113.00	226	152.00	55
48.00	2314	77.00	1569	115.00	318	153.00	134
49.00	15973	78.00	961	116.00	1033	154.00	151
50.00	73688	79.00	7468	117.00	1705	155.00	666
51.00	22424	80.00	2093	118.00	1007	157.00	508
52.00	983	81.00	7536	119.00	1304	159.00	407
55.00	985	82.00	1515	124.00	223	161.00	336
56.00	4784	86.00	254	128.00	1010	171.00	115
57.00	9219	87.00	9942	129.00	450	172.00	306
58.00	341	88.00	9528	130.00	1076	174.00	210560
60.00	3169	91.00	993	131.00	432	175.00	15859
61.00	15424	92.00	8233	135.00	521	176.00	204224
62.00	14735	93.00	11562	137.00	559	177.00	13588
63.00	10493	94.00	32032	140.00	141	178.00	430
64.00	1023	95.00	265856	141.00	2995		

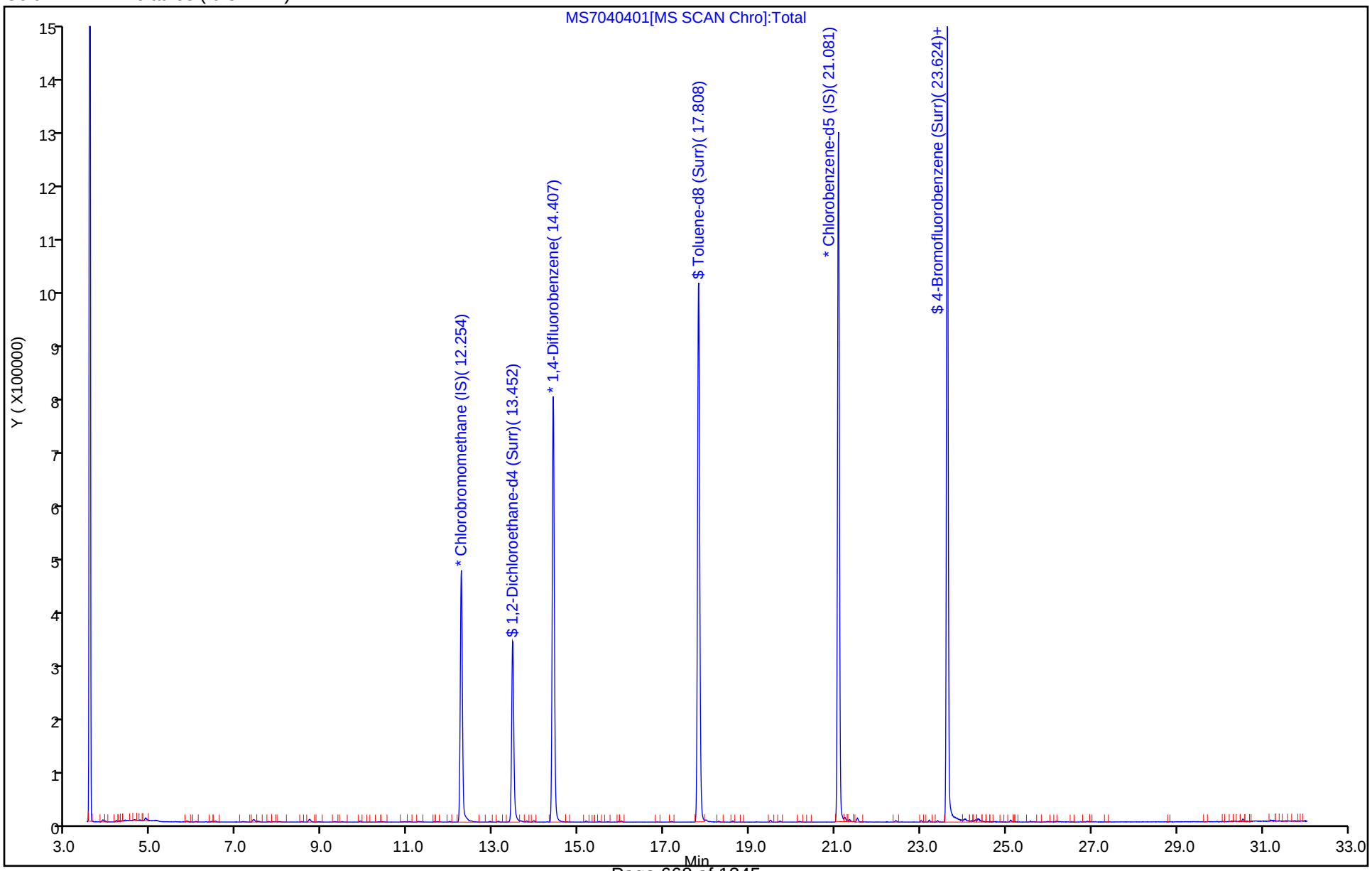
Report Date: 05-Apr-2018 12:20:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040401.D

Injection Date:	04-Apr-2018 09:47:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	250.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040501.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 05-Apr-2018 11:07:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 250.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 24mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 14:47:51 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: leeh Date: 05-Apr-2018 12:44:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.223	12.223	0.000	93	228519	4.00	4.00	s
* 2 1,4-Difluorobenzene	114	14.371	14.371	0.000	96	1010811	4.00	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	21.051	21.051	0.000	92	1050238	4.00	4.00	s
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.422	0.000	96	405753	4.00	4.26	
$ 5 Toluene-d8 (Surr)	100	17.772	17.772	0.000	97	707120	4.00	4.02	
$ 6 4-Bromofluorobenzene (Surr	95	23.600	23.600	0.000	86	756350	4.00	3.88	
$ 7 BFB									

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
s - Failed ISTD Recovery Test

Reagents:

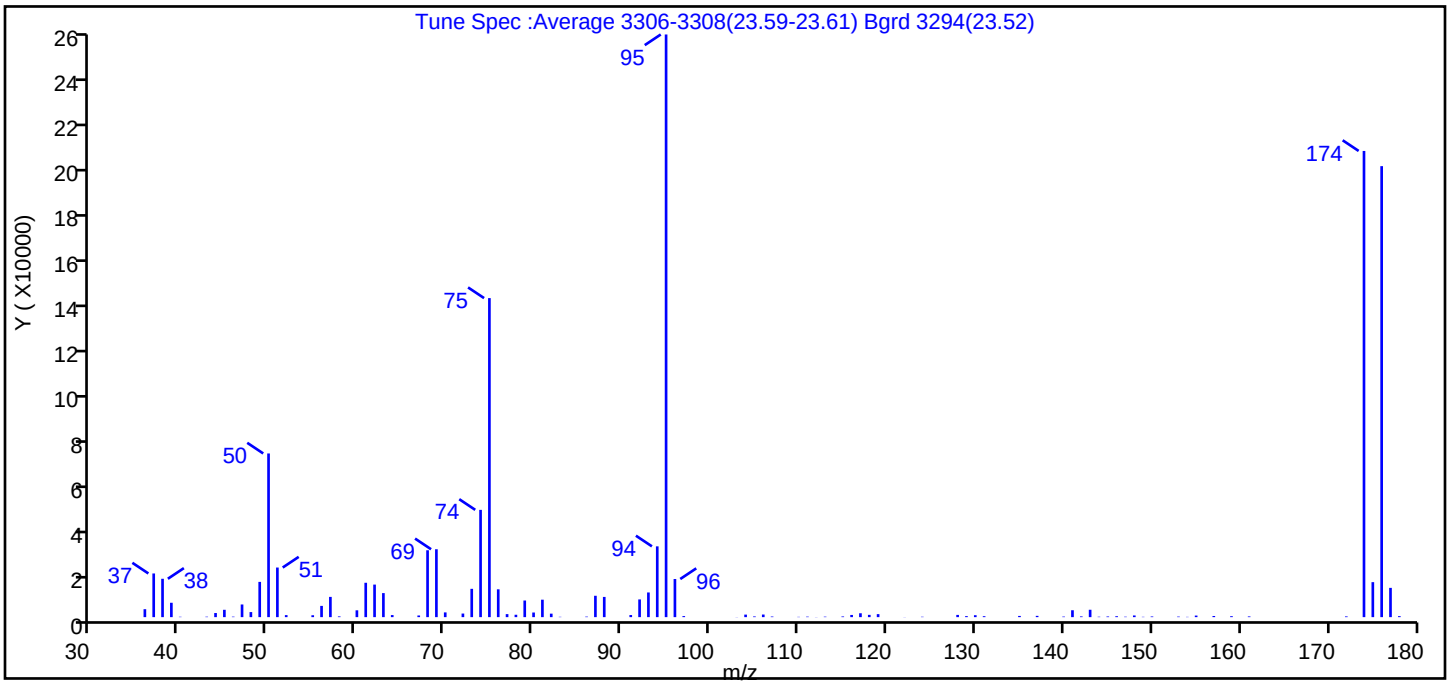
**VAMBFB_00034	Amount Added: 24.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

MS Tune Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040501.D
Injection Date: 05-Apr-2018 11:07:30 Instrument ID: ATMS7
Lims ID: BFB
Client ID:
Operator ID: LHS ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 250.0 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Tune Method: BFB Method TO-15

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	28.1
75	30.0 to 66.0 Percent of m/e 95	54.8
96	5.0 to 9.0 Percent of m/e 95	6.5
173	Less than 2.0 Percent of m/e 174	0.0 (0.0)
174	50.0 to 120.0 Percent of m/e 95	80.0
175	4.0 to 9.0 Percent of m/e 174	6.0 (7.5)
176	93.0 to 101.0 Percent of m/e 174	77.4 (96.7)
177	5.0 to 9.0 Percent of m/e 176	5.0 (6.5)

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040501.D\TO15_ATMS7N.rslt\spectr
Injection Date: 05-Apr-2018 11:07:30
Spectrum: Tune Spec :Average 3306-3308(23.59-23.61) Bgrd 3294(23.52)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3516	67.00	734	96.00	16864	140.00	244
37.00	19320	68.00	29584	97.00	458	141.00	3053
38.00	16968	69.00	30032	103.00	56	142.00	325
39.00	6362	70.00	2096	104.00	1122	143.00	3269
40.00	163	72.00	1591	105.00	313	144.00	188
43.00	200	73.00	12524	106.00	1158	145.00	293
44.00	1821	74.00	47456	107.00	271	146.00	411
45.00	3251	75.00	141120	110.00	126	147.00	194
46.00	217	76.00	12308	111.00	224	148.00	742
47.00	5602	77.00	1334	112.00	58	149.00	143
48.00	2238	78.00	1057	113.00	214	150.00	295
49.00	15596	79.00	7358	115.00	305	153.00	243
50.00	72400	80.00	2049	116.00	971	154.00	123
51.00	21944	81.00	7722	117.00	1720	155.00	697
52.00	893	82.00	1546	118.00	1012	157.00	497
55.00	838	83.00	142	119.00	1332	159.00	410
56.00	4975	86.00	235	122.00	51	161.00	317
57.00	8958	87.00	9451	124.00	174	172.00	326
58.00	328	88.00	8945	128.00	990	174.00	206208
60.00	3024	91.00	928	129.00	452	175.00	15475
61.00	15203	92.00	7840	130.00	852	176.00	199488
62.00	14401	93.00	10918	131.00	410	177.00	12949
63.00	10634	94.00	31312	135.00	538	178.00	431
64.00	916	95.00	257728	137.00	568		

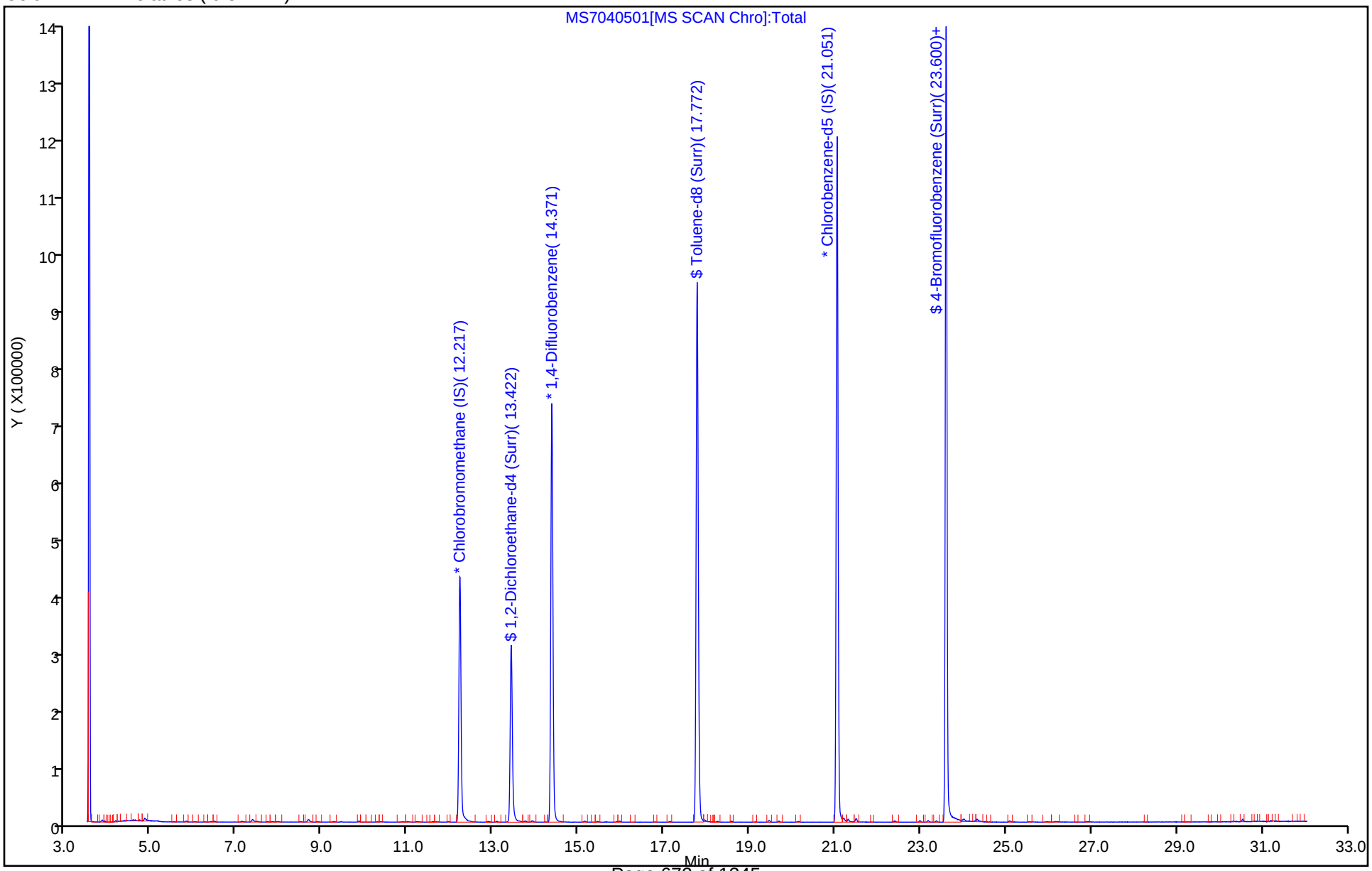
Report Date: 05-Apr-2018 14:47:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040501.D

Injection Date:	05-Apr-2018 11:07:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	250.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-216210/7

Matrix: Air Lab File ID: MS7040407.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/04/2018 15:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	U	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	0.95	U M	12	0.95	0.42
71-43-2	Benzene	0.64	U	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	0.83	U	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-216210/7

Matrix: Air Lab File ID: MS7040407.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/04/2018 15:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.0	U	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.87	U	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.69	U	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.87	U	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.75	U	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	2.2	U	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040407.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Apr-2018 15:07:30 ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:25:20 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:25:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.260	12.235	0.025	93	32744	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.413	14.389	0.024	96	145395	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.087	21.069	0.018	91	149356	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.458	13.434	0.024	95	58198	4.00	4.24	
$ 5 Toluene-d8 (Surr)	100	17.814	17.790	0.024	97	102892	4.00	4.06	
$ 6 4-Bromofluorobenzene (Surr	95	23.636	23.618	0.018	87	96261	4.00	3.47	
$ 7 BFB									
11 Propene	41	3.858	3.846	0.012	79	480		0.0608	
74 Isobutanol TIC	43	17.820	17.885	-0.109	36	1074		0.1312	
95 Epichlorohydrin TIC	57	23.642	23.650	-0.067	44	3370		0.0903	
A 139 C6 Range	1	9.893	(9.653-10.133)		0	9917		0.1520	
A 170 C4-C10	1	14.413	(4.682-24.144)		0	565257		NC	
A 145 Nonmethane Organic Compoun	1	16.240	(3.834-28.645)		0	742361		11.4	
A 146 Total VOC as Hexane	1	16.240	(3.834-28.645)		0	742361		11.4	
A 141 GRO	1	16.354	(3.946-28.761)		0	742426		NC	
A 147 TVOC as Toluene	1	16.448	(3.704-29.193)		0	763430		0	
A 144 Total VOCs as Tetrachloroe	1	16.457	(3.704-29.211)		0	764125		0	
A 142 C4-C12	1	16.722	(4.682-28.761)		0	678435		NC	
A 160 C6-C10	1	17.047	(9.951-24.144)		0	316466		NC	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	5271		NC	
A 148 C6-C12	1	19.356	(9.951-28.761)		0	429644		NC	
A 149 PCE Range	1	19.500	(19.303-19.697)		0	4364		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

VAMSIS20_00126 Amount Added: 50.00 Units: mL Run Reagent

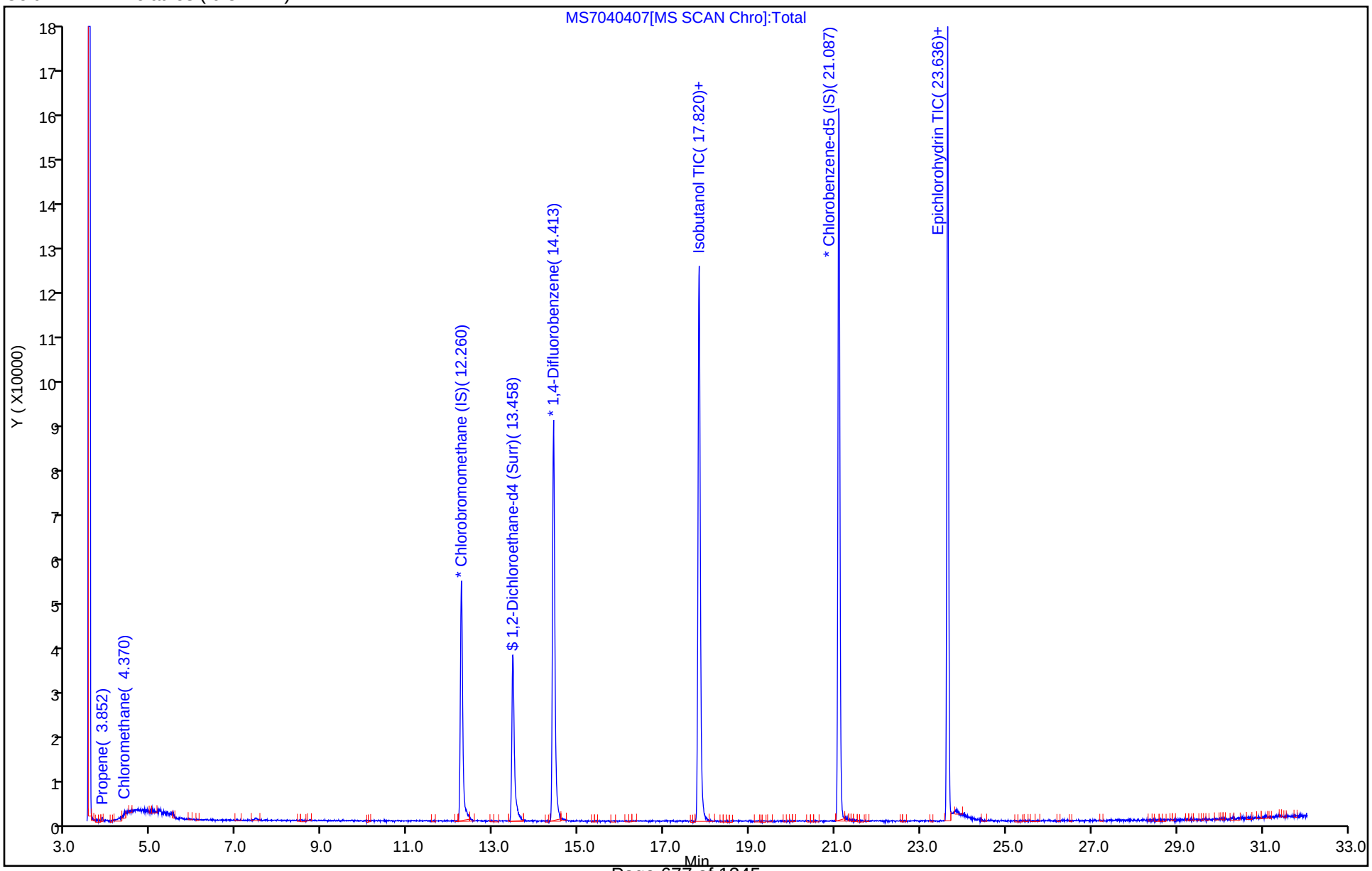
Report Date: 05-Apr-2018 12:25:21 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040407.D

Injection Date:	04-Apr-2018 15:07:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040407.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Apr-2018 15:07:30 ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:25:20 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:25:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.24	106.10
$ 5 Toluene-d8 (Surr)	4.00	4.06	101.57
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.47	86.74

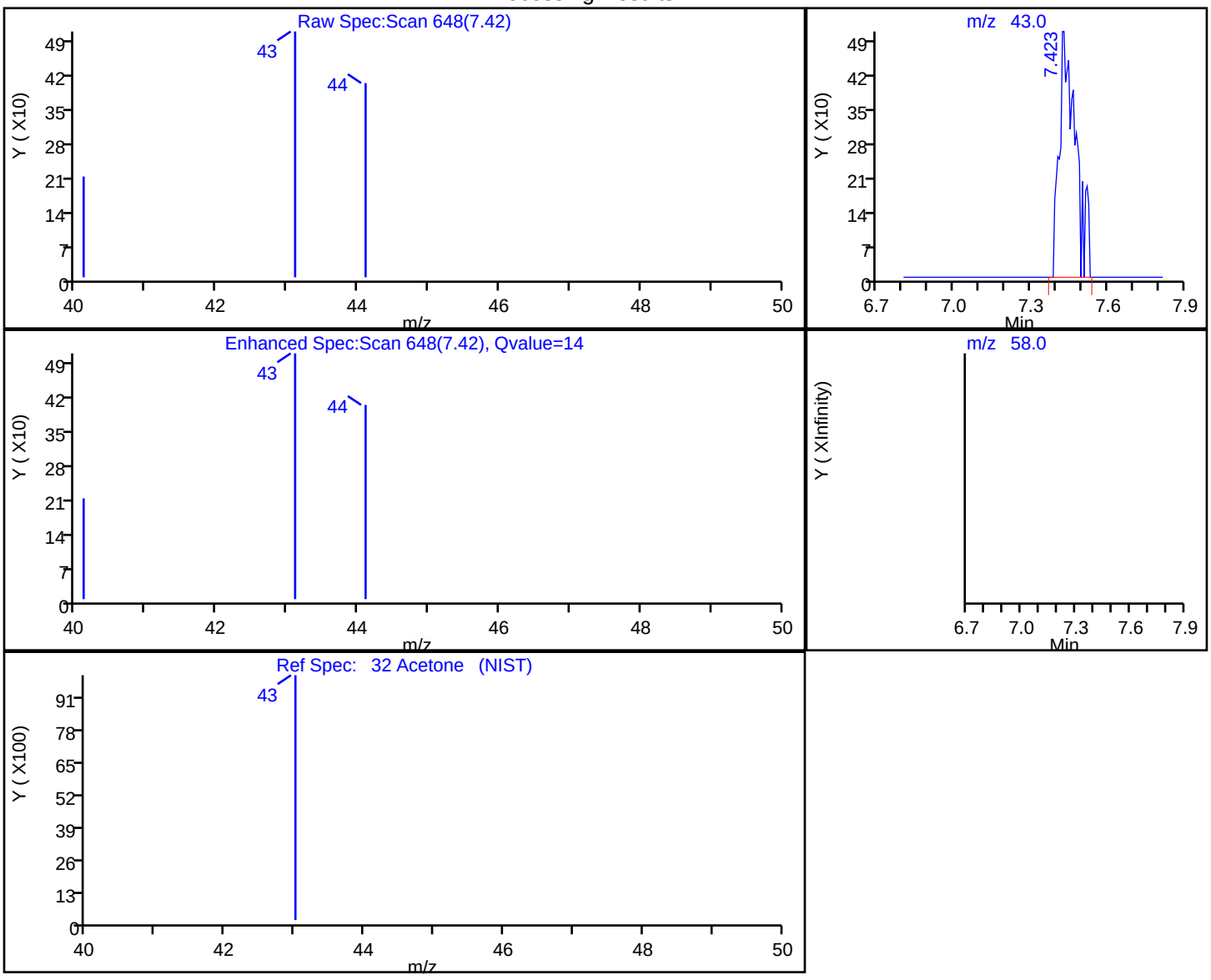
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040407.D
Injection Date: 04-Apr-2018 15:07:30 Instrument ID: ATMS7
Lims ID: MB
Client ID:
Operator ID: LHS ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

32 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
7.42	43.00	2277	0.148033
7.31	58.00	0	

Reviewer: phanthasena, 05-Apr-2018 12:25:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-216406/6

Matrix: Air Lab File ID: MS7040507.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/05/2018 16:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	1.1	U	2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	0.81	U	1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	1.6	U	3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	8.9	U	15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	2.0	U	3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	1.5	U	6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	2.4	U	4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	0.81	U	3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	3.7	U	4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	2.0	U	3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	2.4	U	4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	2.4	U	4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	1.2	U	2.4	1.2	0.59
591-78-6	2-Hexanone	0.82	U	1.6	0.82	0.36
622-96-8	4-Ethyltoluene	2.0	U	3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	U	3.3	1.6	0.55
67-64-1	Acetone	0.95	U M	12	0.95	0.42
71-43-2	Benzene	0.64	U	1.3	0.64	0.25
100-44-7	Benzyl chloride	2.1	U	4.1	2.1	0.84
75-27-4	Bromodichloromethane	1.3	U	2.0	1.3	0.44
75-25-2	Bromoform	2.1	U	4.1	2.1	0.72
74-83-9	Bromomethane	3.1	U	3.9	3.1	1.3
106-99-0	Butadiene	0.88	U	1.8	0.88	0.34
75-15-0	Carbon disulfide	1.2	U	2.5	1.2	0.47
56-23-5	Carbon tetrachloride	2.5	U	5.0	2.5	0.94
108-90-7	Chlorobenzene	0.92	U	1.4	0.92	0.29
75-00-3	Chloroethane	2.1	U	2.6	2.1	0.81
67-66-3	Chloroform	0.98	U	1.5	0.98	0.46
74-87-3	Chloromethane	0.83	U M	1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	0.79	U	1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	1.8	U	3.6	1.8	0.47
124-48-1	Dibromochloromethane	1.7	U	3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-216406/6

Matrix: Air Lab File ID: MS7040507.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/05/2018 16:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	2.0	U	4.0	2.0	0.72
100-41-4	Ethylbenzene	0.87	U	1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	13	U	21	13	4.6
1634-04-4	Methyl tert-butyl ether	1.4	U	2.9	1.4	0.43
75-09-2	Methylene Chloride	0.69	U	1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	0.87	U	3.5	0.87	0.43
91-20-3	Naphthalene	6.3	U	10	6.3	2.9
95-47-6	o-Xylene	0.87	U	1.7	0.87	0.23
100-42-5	Styrene	0.85	U	1.7	0.85	0.25
127-18-4	Tetrachloroethene	1.4	U	2.7	1.4	0.35
108-88-3	Toluene	0.75	U	1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	0.79	U	1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	0.91	U	1.8	0.91	0.40
79-01-6	Trichloroethene	2.1	U	4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	2.2	U	4.5	2.2	1.1
108-05-4	Vinyl acetate	1.4	U	2.8	1.4	0.51
75-01-4	Vinyl chloride	1.0	U	2.0	1.0	0.31
123-91-1	1,4-Dioxane	1.4	U	2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	83		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040507.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Apr-2018 16:27:30 ALS Bottle#: 16 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:31:14 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:31:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.236	12.223	0.013	92	32450	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.383	0.006	96	144223	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.063	0.006	91	139952	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.440	13.428	0.012	97	59322	4.00	4.36	
$ 5 Toluene-d8 (Surr)	100	17.796	17.784	0.012	97	98325	4.00	3.91	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.606	0.012	86	86763	4.00	3.34	
$ 7 BFB									
11 Propene	41	3.846	3.840	0.006	78	392		0.0501	
74 Isobutanol TIC	43	17.796	17.947	-0.133	40	1085		0.1337	
95 Epichlorohydrin TIC	57	23.618	23.732	-0.091	44	3036		0.0868	
A 139 C6 Range	1	9.881	(9.635-10.127)		0	9255		0.1432	
A 170 C4-C10	1	14.398	(4.676-24.119)		0	550598		NC	
A 146 Total VOC as Hexane	1	16.257	(3.834-28.679)		0	734716		11.4	
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.679)		0	734716		11.4	
A 141 GRO	1	16.344	(3.940-28.749)		0	733499		NC	
A 144 Total VOCs as Tetrachloroe	1	16.500	(3.691-29.308)		0	756203		0	
A 147 TVOC as Toluene	1	16.500	(3.691-29.308)		0	756203		0	
A 142 C4-C12	1	16.712	(4.676-28.749)		0	663020		NC	
A 160 C6-C10	1	17.026	(9.932-24.119)		0	299733		NC	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	3849		NC	
A 148 C6-C12	1	19.340	(9.932-28.749)		0	409001		NC	
A 149 PCE Range	1	19.475	(19.265-19.684)		0	6141		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

VAMSIS20_00126	Amount Added:	50.00	Units: mL	Run Reagent

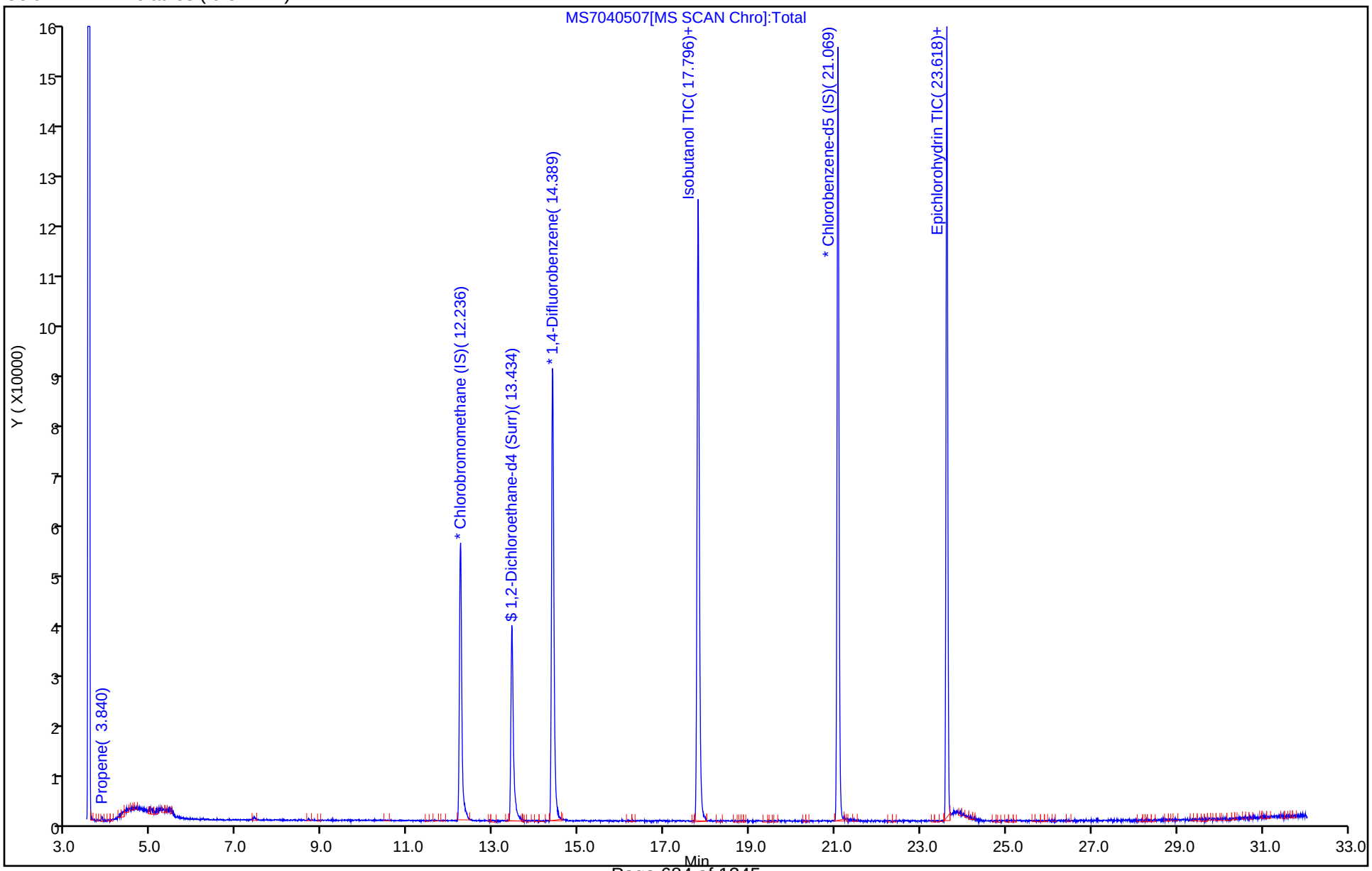
Report Date: 06-Apr-2018 11:31:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040507.D

Injection Date:	05-Apr-2018 16:27:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040507.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Apr-2018 16:27:30 ALS Bottle#: 16 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 06-Apr-2018 11:31:14 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: phanthasena Date: 06-Apr-2018 11:31:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.36	109.03
$ 5 Toluene-d8 (Surr)	4.00	3.91	97.85
$ 6 4-Bromofluorobenzene (Surr)	4.00	3.34	83.43

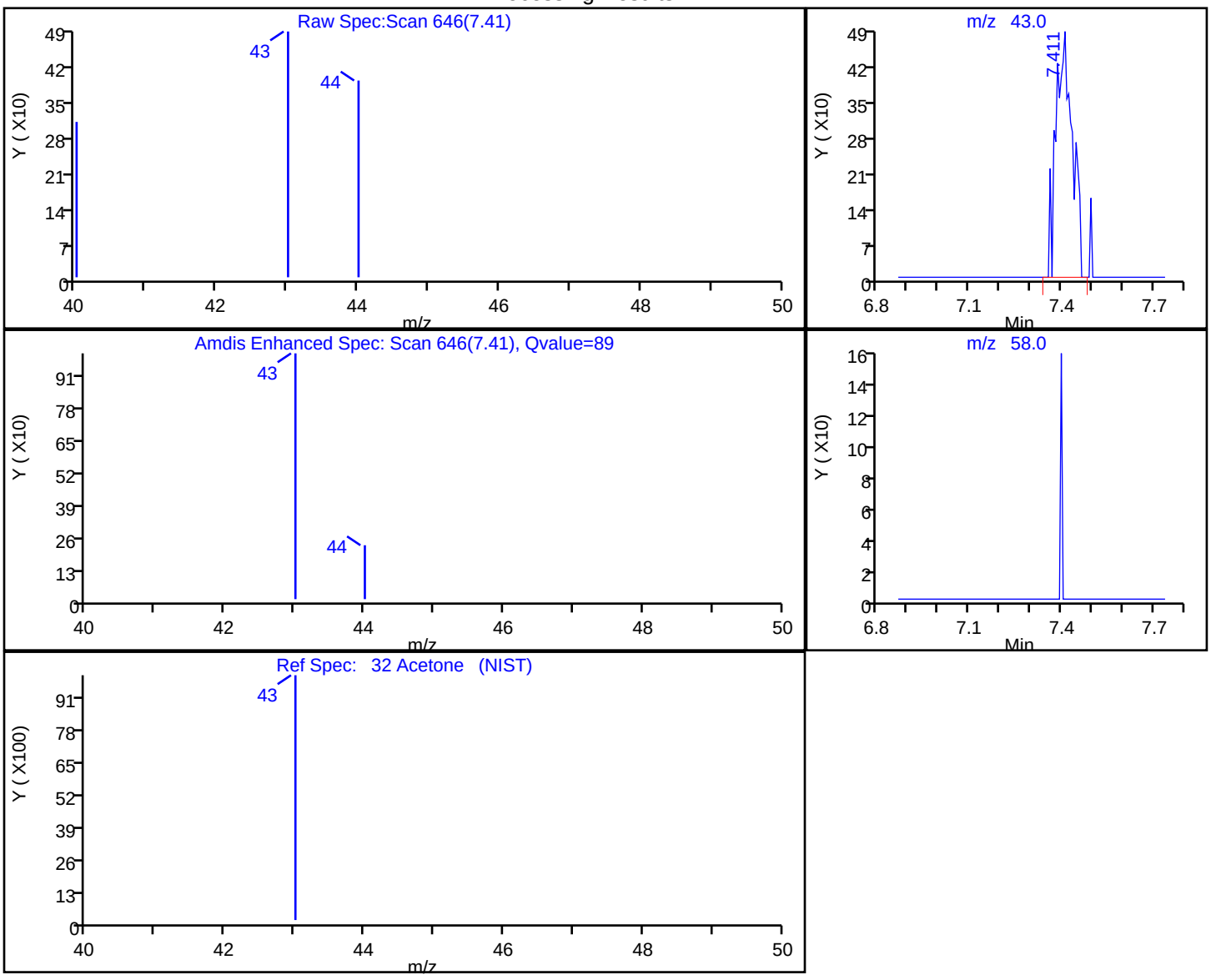
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040507.D
Injection Date: 05-Apr-2018 16:27:30 Instrument ID: ATMS7
Lims ID: MB
Client ID:
Operator ID: LHS ALS Bottle#: 16 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

32 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
7.41	43.00	1794	0.117689
7.30	58.00	0	

Reviewer: phanthasena, 06-Apr-2018 11:31:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

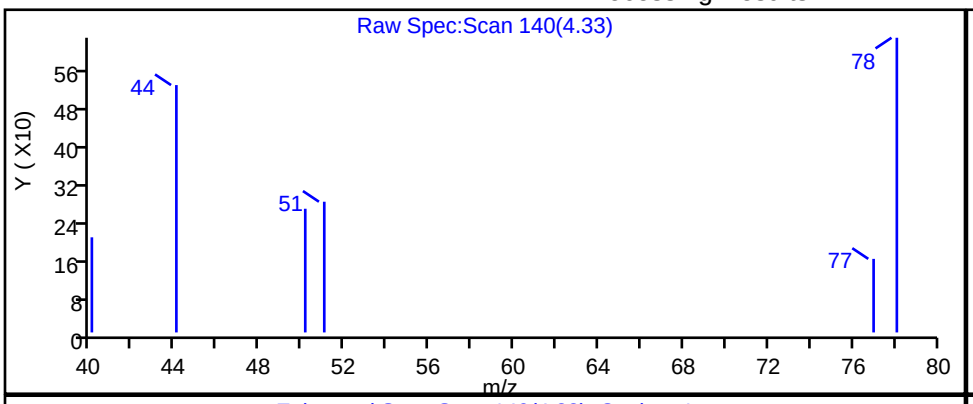
User Disabled Compound Report

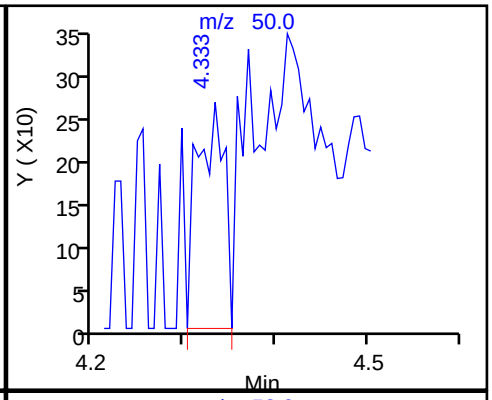
TestAmerica Sacramento

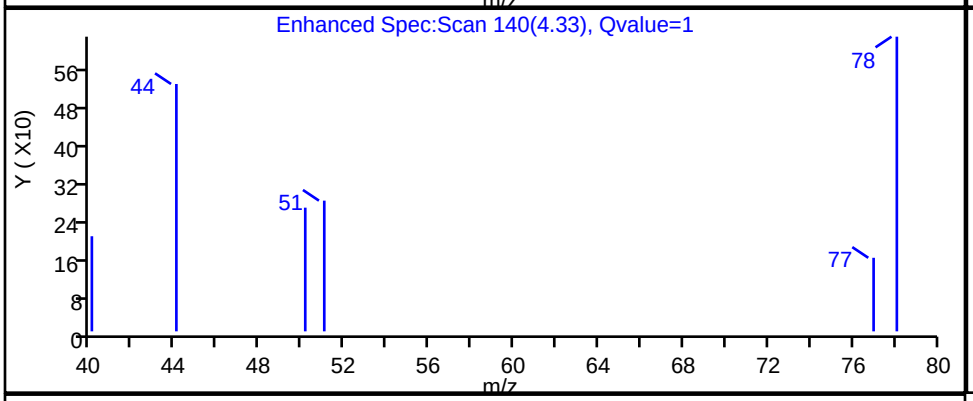
Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040507.D
Injection Date: 05-Apr-2018 16:27:30 Instrument ID: ATMS7
Lims ID: MB
Client ID:
Operator ID: LHS ALS Bottle#: 16 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

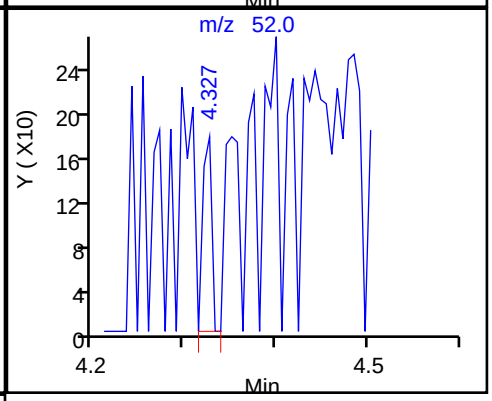
16 Chloromethane, CAS: 74-87-3

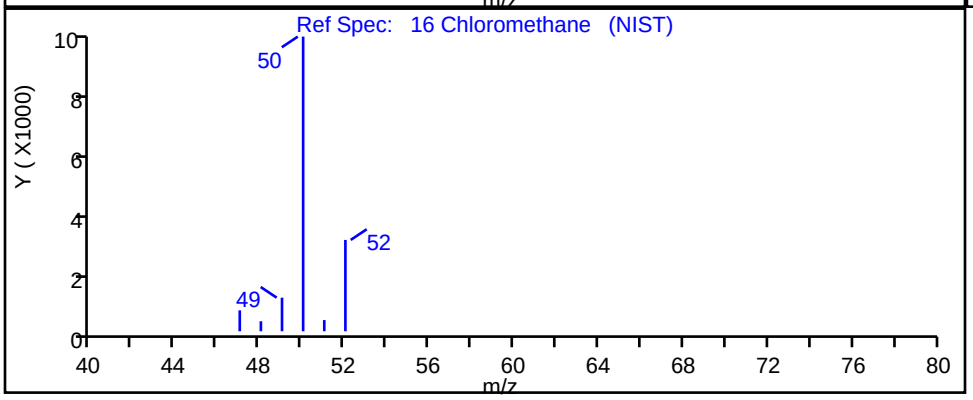
Processing Results











RT	Mass	Response	Amount
4.33	50.00	538	0.076720
4.33	52.00	119	

Reviewer: phanthasena, 06-Apr-2018 11:31:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-216210/3

Matrix: Air Lab File ID: MS7040403.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/04/2018 11:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	117		1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	139		2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifl uoroethane	158		6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	109		2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	86.1		1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	88.4		3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	147		15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	109		3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	155		6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	125		4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	92.4		3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	104		4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	103		3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	129		4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	126		4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	60.9		2.4	1.2	0.59
591-78-6	2-Hexanone	87.3		1.6	0.82	0.36
622-96-8	4-Ethyltoluene	108		3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	92.3		3.3	1.6	0.55
67-64-1	Acetone	52.8		12	0.95	0.42
71-43-2	Benzene	65.8		1.3	0.64	0.25
100-44-7	Benzyl chloride	75.4		4.1	2.1	0.84
75-27-4	Bromodichloromethane	141		2.0	1.3	0.44
75-25-2	Bromoform	205		4.1	2.1	0.72
74-83-9	Bromomethane	73.3		3.9	3.1	1.3
106-99-0	Butadiene	52.4		1.8	0.88	0.34
75-15-0	Carbon disulfide	64.4		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	117		5.0	2.5	0.94
108-90-7	Chlorobenzene	92.4		1.4	0.92	0.29
75-00-3	Chloroethane	56.8		2.6	2.1	0.81
67-66-3	Chloroform	105		1.5	0.98	0.46
74-87-3	Chloromethane	44.3		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	80.8		1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	95.5		3.6	1.8	0.47
124-48-1	Dibromochloromethane	173		3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-216210/3

Matrix: Air Lab File ID: MS7040403.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/04/2018 11:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	93.3		4.0	2.0	0.72
100-41-4	Ethylbenzene	92.7		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	204		21	13	4.6
1634-04-4	Methyl tert-butyl ether	77.7		2.9	1.4	0.43
75-09-2	Methylene Chloride	74.9		1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	189		3.5	0.87	0.43
91-20-3	Naphthalene	89.8		10	6.3	2.9
95-47-6	o-Xylene	95.4		1.7	0.87	0.23
100-42-5	Styrene	96.0		1.7	0.85	0.25
127-18-4	Tetrachloroethene	134		2.7	1.4	0.35
108-88-3	Toluene	76.8		1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	85.5		1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	95.4		1.8	0.91	0.40
79-01-6	Trichloroethene	109		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	123		4.5	2.2	1.1
108-05-4	Vinyl acetate	71.9		2.8	1.4	0.51
75-01-4	Vinyl chloride	52.8		2.0	1.0	0.31
123-91-1	1,4-Dioxane	69.6		2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040403.D
Lims ID: LCS 20ppbv
Client ID:
Sample Type: LCS
Inject. Date: 04-Apr-2018 11:32:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:24:17 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:24:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.229	12.229	0.000	93	32979	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.389	0.000	96	143442	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.069	0.000	91	154263	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.434	13.434	0.000	95	60824	4.00	4.50	
$ 5 Toluene-d8 (Surr)	100	17.790	17.790	0.000	97	101371	4.00	4.06	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.618	0.000	87	122942	4.00	4.29	
11 Propene	41	3.846	3.846	0.000	98	179312	20.0	22.6	
12 Chlorodifluoromethane	51	3.858	3.858	0.000	92	316933	20.0	21.8	
13 Dichlorodifluoromethane	85	3.907	3.907	0.000	98	250854	20.0	18.9	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.163	4.163	0.000	95	244692	20.0	20.4	
16 Chloromethane	50	4.357	4.357	0.000	99	152764	20.0	21.4	
17 Butane	43	4.582	4.582	0.000	85	270192	20.0	22.3	
18 Vinyl chloride	62	4.625	4.625	0.000	98	129700	20.0	20.7	
19 Butadiene	39	4.704	4.704	0.000	92	150441	20.0	23.7	
21 Bromomethane	94	5.525	5.525	0.000	98	89991	20.0	18.9	
22 Chloroethane	64	5.726	5.726	0.000	75	77879	20.0	21.5	
25 Vinyl bromide	106	6.237	6.237	0.000	99	120524	20.0	20.8	
26 Trichlorofluoromethane	101	6.395	6.395	0.000	98	400159	20.0	22.0	
27 Pentane	43	6.456	6.456	0.000	95	430748	20.0	23.3	
29 Ethyl ether	74	7.064	7.064	0.000	32	74428	20.0	21.4	
31 Acrolein	56	7.150	7.150	0.000	82	86002	20.0	21.6	
32 Acetone	43	7.308	7.308	0.000	99	344658	20.0	22.2	
33 1,1,2-Trichloro-1,2,2-trif	101	7.478	7.478	0.000	97	308718	20.0	20.6	
34 1,1-Dichloroethene	61	7.709	7.709	0.000	91	293971	20.0	22.3	
35 Acetonitrile	41	7.746	7.746	0.000	99	200056	20.0	24.3	
36 2-Methyl-2-propanol	59	7.916	7.916	0.000	92	492859	20.0	20.3	
38 3-Chloro-1-propene	41	8.476	8.476	0.000	92	308501	20.0	21.9	
39 Methylene Chloride	49	8.664	8.664	0.000	91	272833	20.0	21.6	
40 Carbon disulfide	76	8.713	8.713	0.000	96	320011	20.0	20.7	
41 Acrylonitrile	53	8.816	8.816	0.000	94	179865	20.0	21.9	
42 Methyl tert-butyl ether	73	9.236	9.236	0.000	91	471928	20.0	21.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
43 trans-1,2-Dichloroethene	61	9.431	9.431	0.000	91	253756	20.0	21.6	
44 Hexane	41	9.851	9.851	0.000	84	285722	20.0	23.8	
45 1,1-Dichloroethane	63	10.295	10.295	0.000	99	334502	20.0	21.3	
47 Vinyl acetate	43	10.325	10.325	0.000	100	691220	20.0	20.4	
48 2-Butanone (MEK)	72	11.177	11.177	0.000	93	87013	20.0	20.6	
51 cis-1,2-Dichloroethene	96	11.597	11.597	0.000	94	161380	20.0	20.4	
52 Ethyl acetate	43	11.621	11.621	0.000	95	612562	20.0	22.4	
53 Chloroform	83	11.962	11.962	0.000	95	360372	20.0	21.5	
54 Tetrahydrofuran	42	12.400	12.400	0.000	90	349410	20.0	22.6	
55 1,1,1-Trichloroethane	97	12.905	12.905	0.000	96	394832	20.0	21.4	
56 Cyclohexane	84	13.099	13.099	0.000	89	224413	20.0	21.5	
58 Isooctane	57	13.391	13.391	0.000	96	1269580	20.0	21.9	
59 Carbon tetrachloride	117	13.489	13.489	0.000	97	375443	20.0	18.5	
60 n-Butanol	56	13.489	13.489	0.000	74	208400	20.0	18.1	
61 1,2-Dichloroethane	62	13.635	13.635	0.000	96	306814	20.0	22.8	
63 Benzene	78	13.762	13.762	0.000	96	554264	20.0	20.6	
64 n-Heptane	43	13.927	13.927	0.000	89	610582	20.0	23.6	
65 Trichloroethene	130	15.149	15.149	0.000	97	263059	20.0	20.4	
66 1,2-Dichloropropane	76	15.460	15.460	0.000	83	97177	20.0	22.5	
67 Methyl methacrylate	69	15.618	15.618	0.000	85	227425	20.0	22.1	
68 Dichlorobromomethane	85	15.916	15.916	0.000	97	282844	20.0	21.1	
69 1,4-Dioxane	88	15.934	15.934	0.000	70	142942	20.0	19.3	
70 Dibromomethane	174	15.977	15.977	0.000	98	225399	20.0	18.9	
71 4-Methyl-2-pentanone (MIBK	43	16.768	16.768	0.000	96	909772	20.0	22.5	
72 cis-1,3-Dichloropropene	75	17.145	17.145	0.000	95	409924	20.0	21.0	
73 n-Octane	43	17.826	17.826	0.000	95	976486	20.0	23.4	
75 Toluene	91	17.966	17.966	0.000	95	771877	20.0	20.4	
76 trans-1,3-Dichloropropene	75	18.246	18.246	0.000	93	378786	20.0	21.0	
77 1,1,2-Trichloroethane	97	18.587	18.587	0.000	97	248398	20.0	20.1	
78 2-Hexanone	58	18.708	18.708	0.000	88	399868	20.0	21.3	
80 Tetrachloroethene	166	19.475	19.475	0.000	94	396767	20.0	19.8	
81 Chlorodibromomethane	129	19.700	19.700	0.000	97	523122	20.0	20.3	
82 Ethylene Dibromide	107	20.150	20.150	0.000	99	413130	20.0	20.2	
83 Chlorobenzene	112	21.148	21.148	0.000	91	679337	20.0	20.1	
84 n-Nonane	43	21.215	21.215	0.000	91	1080404	20.0	25.7	
86 Ethylbenzene	91	21.324	21.324	0.000	99	1152032	20.0	21.3	
87 m-Xylene & p-Xylene	91	21.507	21.507	0.000	98	1813819	40.0	43.4	
88 o-Xylene	91	22.407	22.407	0.000	97	913523	20.0	22.0	
89 Styrene	104	22.438	22.438	0.000	96	722133	20.0	22.5	
90 Bromoform	173	23.003	23.003	0.000	95	505377	20.0	19.9	
92 Isopropylbenzene	120	23.192	23.192	0.000	97	349635	20.0	22.0	
93 1,1,2,2-Tetrachloroethane	83	23.387	23.387	0.000	99	592011	20.0	20.3	
97 1,2,3-Trichloropropane	110	23.691	23.691	0.000	93	188827	20.0	20.9	
99 N-Propylbenzene	91	24.031	24.031	0.000	98	1516178	20.0	22.1	
101 n-Decane	57	24.044	24.044	0.000	82	960524	20.0	23.8	
102 4-Ethyltoluene	120	24.269	24.269	0.000	99	384853	20.0	22.0	
103 2-Chlorotoluene	126	24.336	24.336	0.000	98	307882	20.0	20.9	
104 1,3,5-Trimethylbenzene	120	24.360	24.360	0.000	91	537713	20.0	20.9	
105 Alpha Methyl Styrene	118	24.938	24.938	0.000	86	545038	20.0	22.5	
106 tert-Butylbenzene	91	25.096	25.096	0.000	92	738778	20.0	20.9	
107 1,2,4-Trimethylbenzene	120	25.157	25.157	0.000	98	519792	20.0	22.2	
108 sec-Butylbenzene	105	25.540	25.540	0.000	98	1590163	20.0	21.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
109 4-Isopropyltoluene	119	25.814	25.814	0.000	97	1373332	20.0	21.6	
110 1,3-Dichlorobenzene	146	25.917	25.917	0.000	98	675367	20.0	21.4	
111 1,4-Dichlorobenzene	146	26.118	26.118	0.000	92	666403	20.0	20.9	
113 Benzyl chloride	91	26.282	26.282	0.000	97	768488	16.0	14.6	
114 Undecane	57	26.483	26.483	0.000	88	939187	20.0	21.1	
115 n-Butylbenzene	92	26.635	26.635	0.000	98	650073	20.0	22.3	
116 1,2-Dichlorobenzene	146	26.842	26.842	0.000	93	622878	20.0	20.8	
118 Dodecane	57	28.661	28.661	0.000	87	631974	20.0	19.1	
119 1,2,4-Trichlorobenzene	180	30.158	30.158	0.000	94	385087	20.0	19.8	
120 Hexachlorobutadiene	225	30.517	30.517	0.000	97	370990	20.0	19.1	
121 Naphthalene	128	30.608	30.608	0.000	98	971010	20.0	17.1	
122 1,2,3-Trichlorobenzene	180	31.125	31.125	0.000	95	316272	20.0	18.8	
A 139 C6 Range	1	9.893	(9.653-10.133)		0	1391927	20.0	21.2	
A 146 Total VOC as Hexane	1	16.257	(3.834-28.645)		0	143326028	20.0	2181.7	E
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.645)		0	143326028	20.0	2181.7	E
A 144 Total VOCs as Tetrachloroe	1	16.457	(3.704-29.211)		0	144631105	20.0	0	
A 147 TVOC as Toluene	1	16.457	(3.704-29.211)		0	144631105	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1486301	NC	NC	
A 149 PCE Range	1	19.450	(19.290-19.697)		0	2450196	NC	NC	
S 150 Xylenes, Total	91				0		60.0	65.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

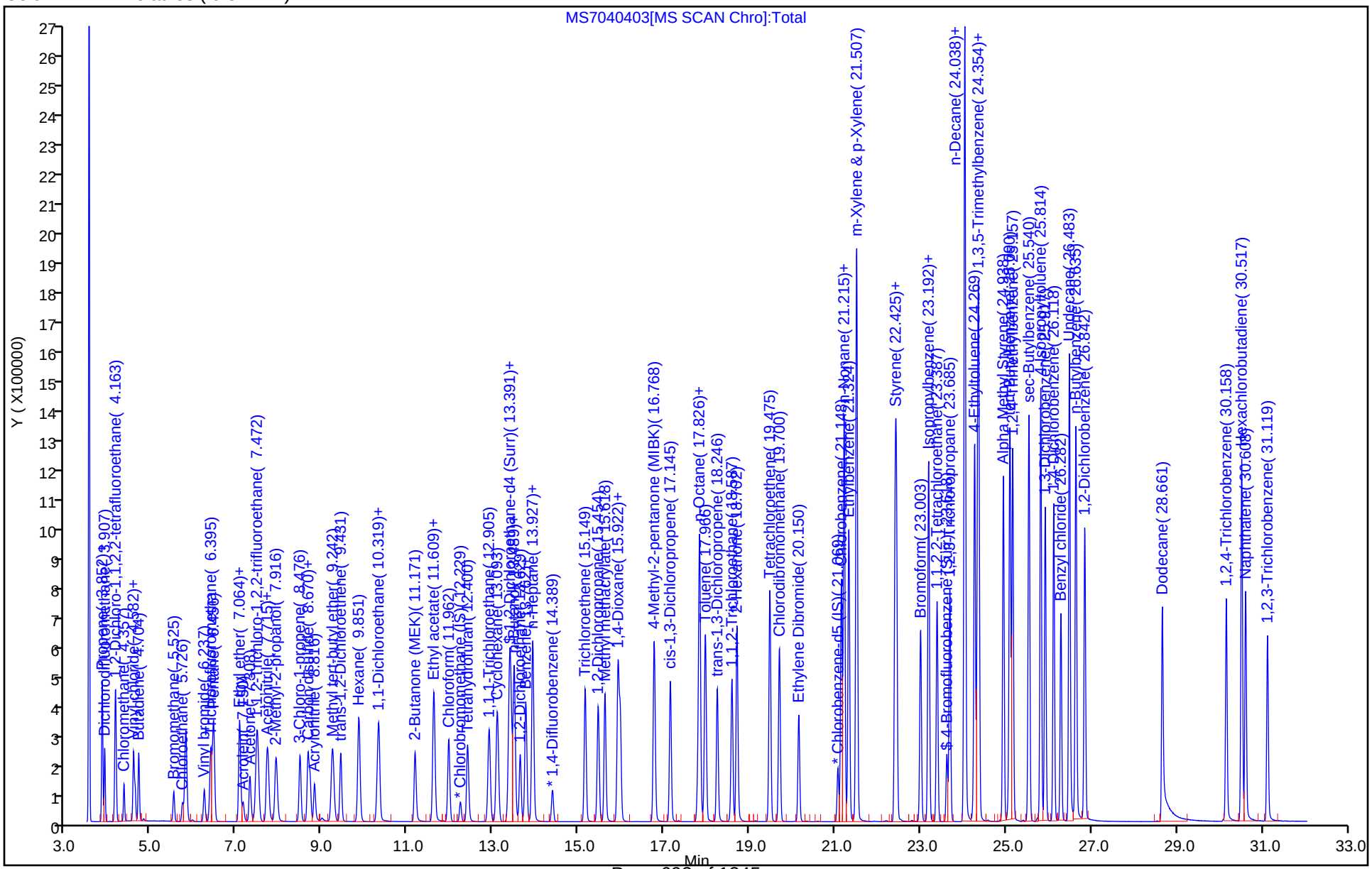
Report Date: 05-Apr-2018 12:24:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040403.D

Injection Date:	04-Apr-2018 11:32:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	LCS 20ppbv			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040403.D
Lims ID: LCS 20ppbv
Client ID:
Sample Type: LCS
Inject. Date: 04-Apr-2018 11:32:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:24:17 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:24:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.50	112.40
$ 5 Toluene-d8 (Surr)	4.00	4.06	101.43
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.29	107.26

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-216406/3

Matrix: Air Lab File ID: MS7040503.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/05/2018 12:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	118		1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	135		2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifl uoroethane	156		6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	109		2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	85.7		1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	87.3		3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	139		15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	103		3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	153		6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	122		4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	92.7		3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	104		4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	99.2		3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	124		4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	120		4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	61.7		2.4	1.2	0.59
591-78-6	2-Hexanone	85.2		1.6	0.82	0.36
622-96-8	4-Ethyltoluene	104		3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	91.6		3.3	1.6	0.55
67-64-1	Acetone	52.9		12	0.95	0.42
71-43-2	Benzene	65.5		1.3	0.64	0.25
100-44-7	Benzyl chloride	71.4		4.1	2.1	0.84
75-27-4	Bromodichloromethane	142		2.0	1.3	0.44
75-25-2	Bromoform	199		4.1	2.1	0.72
74-83-9	Bromomethane	77.8		3.9	3.1	1.3
106-99-0	Butadiene	50.5		1.8	0.88	0.34
75-15-0	Carbon disulfide	62.8		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	114		5.0	2.5	0.94
108-90-7	Chlorobenzene	89.7		1.4	0.92	0.29
75-00-3	Chloroethane	55.3		2.6	2.1	0.81
67-66-3	Chloroform	104		1.5	0.98	0.46
74-87-3	Chloromethane	44.9		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	80.1		1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	94.9		3.6	1.8	0.47
124-48-1	Dibromochloromethane	170		3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-216406/3

Matrix: Air Lab File ID: MS7040503.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/05/2018 12:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	90.2		4.0	2.0	0.72
100-41-4	Ethylbenzene	89.5		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	196		21	13	4.6
1634-04-4	Methyl tert-butyl ether	77.1		2.9	1.4	0.43
75-09-2	Methylene Chloride	74.4		1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	182		3.5	0.87	0.43
91-20-3	Naphthalene	86.1		10	6.3	2.9
95-47-6	o-Xylene	92.4		1.7	0.87	0.23
100-42-5	Styrene	92.7		1.7	0.85	0.25
127-18-4	Tetrachloroethene	130		2.7	1.4	0.35
108-88-3	Toluene	75.2		1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	84.3		1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	95.1		1.8	0.91	0.40
79-01-6	Trichloroethene	108		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	122		4.5	2.2	1.1
108-05-4	Vinyl acetate	72.2		2.8	1.4	0.51
75-01-4	Vinyl chloride	52.0		2.0	1.0	0.31
123-91-1	1,4-Dioxane	68.7		2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040503.D
Lims ID: LCS 20ppbv
Client ID:
Sample Type: LCS
Inject. Date: 05-Apr-2018 12:52:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 13:36:26 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: leeh Date: 05-Apr-2018 13:36:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.223	12.223	0.000	93	33720	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.371	14.371	0.000	96	147204	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.051	21.051	0.000	91	156876	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.422	13.422	0.000	97	63763	4.00	4.59	
$ 5 Toluene-d8 (Surr)	100	17.772	17.772	0.000	97	103378	4.00	4.03	
$ 6 4-Bromofluorobenzene (Surr	95	23.600	23.600	0.000	88	125074	4.00	4.29	
11 Propene	41	3.846	3.846	0.000	98	180006	20.0	22.2	
12 Chlorodifluoromethane	51	3.858	3.858	0.000	92	315430	20.0	21.3	
13 Dichlorodifluoromethane	85	3.907	3.907	0.000	98	247846	20.0	18.2	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.163	4.163	0.000	92	245837	20.0	20.1	
16 Chloromethane	50	4.363	4.363	0.000	99	158491	20.0	21.8	
17 Butane	43	4.588	4.588	0.000	85	273805	20.0	22.1	
18 Vinyl chloride	62	4.625	4.625	0.000	98	130466	20.0	20.3	
19 Butadiene	39	4.710	4.710	0.000	92	148031	20.0	22.8	
21 Bromomethane	94	5.525	5.525	0.000	98	97657	20.0	20.0	
22 Chloroethane	64	5.732	5.732	0.000	75	77531	20.0	21.0	
25 Vinyl bromide	106	6.237	6.237	0.000	98	120074	20.0	20.3	
26 Trichlorofluoromethane	101	6.389	6.389	0.000	98	402997	20.0	21.7	
27 Pentane	43	6.456	6.456	0.000	95	435131	20.0	23.0	
29 Ethyl ether	74	7.064	7.064	0.000	41	74226	20.0	20.9	
31 Acrolein	56	7.150	7.150	0.000	82	88613	20.0	21.8	
32 Acetone	43	7.308	7.308	0.000	99	352504	20.0	22.3	
33 1,1,2-Trichloro-1,2,2-trif	101	7.472	7.472	0.000	97	311418	20.0	20.4	
34 1,1-Dichloroethene	61	7.703	7.703	0.000	90	296651	20.0	22.0	
35 Acetonitrile	41	7.746	7.746	0.000	99	205578	20.0	24.4	
36 2-Methyl-2-propanol	59	7.928	7.928	0.000	92	513684	20.0	20.7	
38 3-Chloro-1-propene	41	8.476	8.476	0.000	92	309115	20.0	21.4	
39 Methylene Chloride	49	8.658	8.658	0.000	90	276945	20.0	21.4	
40 Carbon disulfide	76	8.707	8.707	0.000	96	318918	20.0	20.2	
41 Acrylonitrile	53	8.816	8.816	0.000	94	177696	20.0	21.2	
42 Methyl tert-butyl ether	73	9.236	9.236	0.000	91	478822	20.0	21.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
43 trans-1,2-Dichloroethene	61	9.425	9.425	0.000	91	255740	20.0	21.3	
44 Hexane	41	9.851	9.851	0.000	84	290736	20.0	23.7	
45 1,1-Dichloroethane	63	10.283	10.283	0.000	99	340402	20.0	21.2	
47 Vinyl acetate	43	10.325	10.325	0.000	100	709442	20.0	20.5	
48 2-Butanone (MEK)	72	11.165	11.165	0.000	93	90145	20.0	20.9	
51 cis-1,2-Dichloroethene	96	11.591	11.591	0.000	95	163617	20.0	20.2	
52 Ethyl acetate	43	11.615	11.615	0.000	95	632989	20.0	22.6	
53 Chloroform	83	11.950	11.950	0.000	94	365777	20.0	21.4	
54 Tetrahydrofuran	42	12.388	12.388	0.000	90	361535	20.0	22.9	
55 1,1,1-Trichloroethane	97	12.892	12.892	0.000	96	407150	20.0	21.6	
56 Cyclohexane	84	13.087	13.087	0.000	89	226438	20.0	21.2	
58 Isooctane	57	13.379	13.379	0.000	96	1294651	20.0	21.8	
59 Carbon tetrachloride	117	13.477	13.477	0.000	97	378129	20.0	18.2	
60 n-Butanol	56	13.489	13.489	0.000	74	241020	20.0	20.5	
61 1,2-Dichloroethane	62	13.616	13.616	0.000	96	315895	20.0	22.9	
63 Benzene	78	13.750	13.750	0.000	96	565674	20.0	20.5	
64 n-Heptane	43	13.915	13.915	0.000	89	623709	20.0	23.5	
65 Trichloroethene	130	15.137	15.137	0.000	96	267091	20.0	20.2	
66 1,2-Dichloropropane	76	15.442	15.442	0.000	87	99770	20.0	22.5	
67 Methyl methacrylate	69	15.606	15.606	0.000	85	232426	20.0	22.0	
68 Dichlorobromomethane	85	15.904	15.904	0.000	97	291776	20.0	21.2	
69 1,4-Dioxane	88	15.922	15.922	0.000	70	144786	20.0	19.1	
70 Dibromomethane	174	15.959	15.959	0.000	98	229507	20.0	18.8	
71 4-Methyl-2-pentanone (MIBK	43	16.749	16.749	0.000	96	926710	20.0	22.4	
72 cis-1,3-Dichloropropene	75	17.127	17.127	0.000	95	418077	20.0	20.9	
73 n-Octane	43	17.814	17.814	0.000	95	981388	20.0	23.1	
75 Toluene	91	17.948	17.948	0.000	92	774953	20.0	19.9	
76 trans-1,3-Dichloropropene	75	18.228	18.228	0.000	92	384057	20.0	20.9	
77 1,1,2-Trichloroethane	97	18.568	18.568	0.000	97	251756	20.0	20.0	
78 2-Hexanone	58	18.690	18.690	0.000	88	396960	20.0	20.8	
80 Tetrachloroethene	166	19.457	19.457	0.000	94	390684	20.0	19.2	
81 Chlorodibromomethane	129	19.682	19.682	0.000	97	524972	20.0	20.0	
82 Ethylene Dibromide	107	20.132	20.132	0.000	98	414878	20.0	20.0	
83 Chlorobenzene	112	21.130	21.130	0.000	91	670602	20.0	19.5	
84 n-Nonane	43	21.197	21.197	0.000	91	1072019	20.0	25.1	
86 Ethylbenzene	91	21.306	21.306	0.000	98	1131068	20.0	20.6	
87 m-Xylene & p-Xylene	91	21.489	21.489	0.000	98	1777327	40.0	41.9	
88 o-Xylene	91	22.389	22.389	0.000	96	899671	20.0	21.3	
89 Styrene	104	22.419	22.419	0.000	96	709410	20.0	21.8	
90 Bromoform	173	22.985	22.985	0.000	95	497761	20.0	19.2	
92 Isopropylbenzene	120	23.174	23.174	0.000	97	341332	20.0	21.1	
93 1,1,2,2-Tetrachloroethane	83	23.368	23.368	0.000	99	582737	20.0	19.6	
97 1,2,3-Trichloropropane	110	23.666	23.666	0.000	93	185148	20.0	20.1	
99 N-Propylbenzene	91	24.013	24.013	0.000	98	1488212	20.0	21.4	
101 n-Decane	57	24.025	24.025	0.000	82	941211	20.0	22.9	
102 4-Ethyltoluene	120	24.251	24.251	0.000	99	375979	20.0	21.1	
103 2-Chlorotoluene	126	24.324	24.324	0.000	98	303156	20.0	20.3	
104 1,3,5-Trimethylbenzene	120	24.348	24.348	0.000	91	528025	20.0	20.2	
105 Alpha Methyl Styrene	118	24.926	24.926	0.000	87	535079	20.0	21.8	
106 tert-Butylbenzene	91	25.078	25.078	0.000	92	745773	20.0	20.8	
107 1,2,4-Trimethylbenzene	120	25.145	25.145	0.000	99	495827	20.0	20.9	
108 sec-Butylbenzene	105	25.522	25.522	0.000	98	1558550	20.0	20.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
109 4-Isopropyltoluene	119	25.802	25.802	0.000	97	1346421	20.0	20.8	
110 1,3-Dichlorobenzene	146	25.905	25.905	0.000	98	660205	20.0	20.6	
111 1,4-Dichlorobenzene	146	26.106	26.106	0.000	95	648370	20.0	20.0	
113 Benzyl chloride	91	26.276	26.276	0.000	97	739796	16.0	13.8	
114 Undecane	57	26.471	26.471	0.000	87	926586	20.0	20.4	
115 n-Butylbenzene	92	26.629	26.629	0.000	98	642367	20.0	21.7	
116 1,2-Dichlorobenzene	146	26.836	26.836	0.000	93	615864	20.0	20.2	
118 Dodecane	57	28.655	28.655	0.000	87	610871	20.0	18.1	
119 1,2,4-Trichlorobenzene	180	30.152	30.152	0.000	94	371325	20.0	18.8	
120 Hexachlorobutadiene	225	30.511	30.511	0.000	95	362824	20.0	18.4	
121 Naphthalene	128	30.608	30.608	0.000	99	946532	20.0	16.4	
122 1,2,3-Trichlorobenzene	180	31.119	31.119	0.000	95	314259	20.0	18.3	
A 139 C6 Range	1	9.939	(9.653-10.121)		0	1409072	20.0	21.0	
A 145 Nonmethane Organic Compound	1	16.257	(3.834-28.679)		0	143202838	20.0	2131.9	E
A 146 Total VOC as Hexane	1	16.257	(3.834-28.679)		0	143202838	20.0	2131.9	E
A 147 TVOC as Toluene	1	16.433	(3.704-29.163)		0	144372385	20.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.433	(3.704-29.163)		0	144372385	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1432835	NC	NC	
A 149 PCE Range	1	19.481	(19.278-19.684)		0	3497860	NC	NC	
S 150 Xylenes, Total	91				0		60.0	63.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

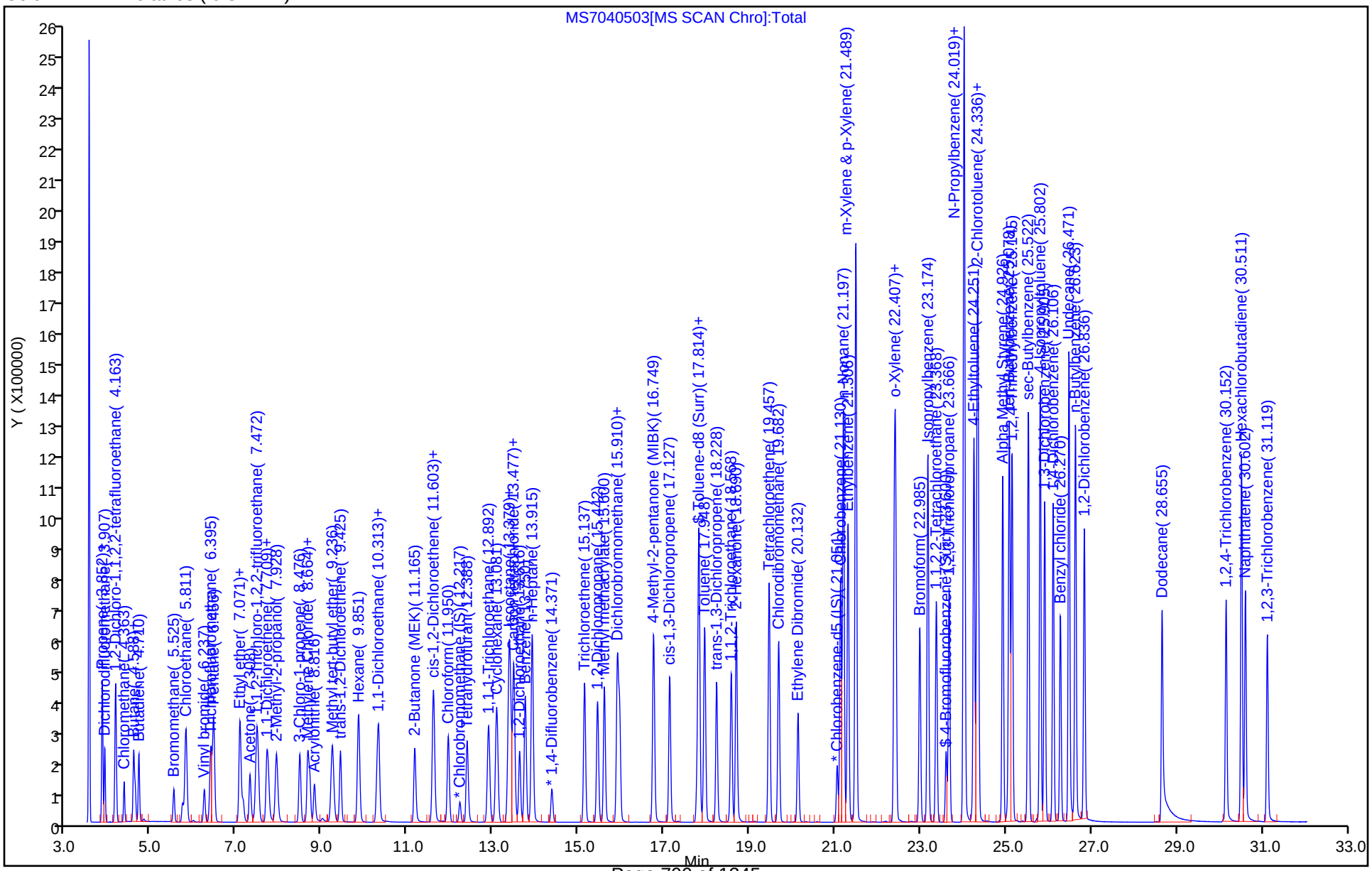
Report Date: 05-Apr-2018 13:36:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040503.D

Injection Date:	05-Apr-2018 12:52:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	LCS 20ppbv			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040503.D
Lims ID: LCS 20ppbv
Client ID:
Sample Type: LCS
Inject. Date: 05-Apr-2018 12:52:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 13:36:26 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: leeh Date: 05-Apr-2018 13:36:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.59	114.82
$ 5 Toluene-d8 (Surr)	4.00	4.03	100.79
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.29	107.30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-216210/4

Matrix: Air Lab File ID: MS7040404.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/04/2018 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	117		1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	140		2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifl uoroethane	158		6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	110		2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	86.6		1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	87.9		3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	148		15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	110		3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	157		6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	125		4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	90.8		3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	103		4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	104		3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	130		4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	127		4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	62.4		2.4	1.2	0.59
591-78-6	2-Hexanone	88.5		1.6	0.82	0.36
622-96-8	4-Ethyltoluene	108		3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	91.2		3.3	1.6	0.55
67-64-1	Acetone	52.4		12	0.95	0.42
71-43-2	Benzene	65.2		1.3	0.64	0.25
100-44-7	Benzyl chloride	75.4		4.1	2.1	0.84
75-27-4	Bromodichloromethane	141		2.0	1.3	0.44
75-25-2	Bromoform	207		4.1	2.1	0.72
74-83-9	Bromomethane	74.7		3.9	3.1	1.3
106-99-0	Butadiene	52.7		1.8	0.88	0.34
75-15-0	Carbon disulfide	64.4		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	114		5.0	2.5	0.94
108-90-7	Chlorobenzene	92.5		1.4	0.92	0.29
75-00-3	Chloroethane	57.4		2.6	2.1	0.81
67-66-3	Chloroform	105		1.5	0.98	0.46
74-87-3	Chloromethane	44.6		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	80.9		1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	94.8		3.6	1.8	0.47
124-48-1	Dibromochloromethane	174		3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-216210/4

Matrix: Air Lab File ID: MS7040404.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/04/2018 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216210 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	93.2		4.0	2.0	0.72
100-41-4	Ethylbenzene	93.1		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	208		21	13	4.6
1634-04-4	Methyl tert-butyl ether	78.1		2.9	1.4	0.43
75-09-2	Methylene Chloride	74.8		1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	189		3.5	0.87	0.43
91-20-3	Naphthalene	91.0		10	6.3	2.9
95-47-6	o-Xylene	95.7		1.7	0.87	0.23
100-42-5	Styrene	96.8		1.7	0.85	0.25
127-18-4	Tetrachloroethene	134		2.7	1.4	0.35
108-88-3	Toluene	75.9		1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	85.2		1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	96.8		1.8	0.91	0.40
79-01-6	Trichloroethene	108		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	122		4.5	2.2	1.1
108-05-4	Vinyl acetate	72.3		2.8	1.4	0.51
75-01-4	Vinyl chloride	53.0		2.0	1.0	0.31
123-91-1	1,4-Dioxane	68.6		2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040404.D
Lims ID: LCSD 20ppbv
Client ID:
Sample Type: LCSD
Inject. Date: 04-Apr-2018 12:25:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:24:09 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:24:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.235	12.235	0.000	93	34044	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.389	14.389	0.000	96	149187	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.069	21.069	0.000	90	157785	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.434	13.434	0.000	96	63625	4.00	4.52	
$ 5 Toluene-d8 (Surr)	100	17.790	17.790	0.000	97	103781	4.00	3.99	
$ 6 4-Bromofluorobenzene (Surr	95	23.618	23.618	0.000	88	124515	4.00	4.25	
11 Propene	41	3.846	3.846	0.000	98	183010	20.0	22.3	
12 Chlorodifluoromethane	51	3.858	3.858	0.000	92	321335	20.0	21.4	
13 Dichlorodifluoromethane	85	3.907	3.907	0.000	98	258647	20.0	18.8	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.163	4.163	0.000	92	250267	20.0	20.2	
16 Chloromethane	50	4.357	4.357	0.000	99	159044	20.0	21.6	
17 Butane	43	4.582	4.582	0.000	85	279569	20.0	22.3	
18 Vinyl chloride	62	4.619	4.619	0.000	98	134308	20.0	20.7	
19 Butadiene	39	4.704	4.704	0.000	93	156127	20.0	23.8	
21 Bromomethane	94	5.525	5.525	0.000	98	94597	20.0	19.2	
22 Chloroethane	64	5.732	5.732	0.000	75	81260	20.0	21.8	
25 Vinyl bromide	106	6.237	6.237	0.000	98	124812	20.0	20.9	
26 Trichlorofluoromethane	101	6.395	6.395	0.000	98	409392	20.0	21.8	
27 Pentane	43	6.456	6.456	0.000	95	445140	20.0	23.3	
29 Ethyl ether	74	7.070	7.070	0.000	32	76987	20.0	21.5	
31 Acrolein	56	7.150	7.150	0.000	83	89950	20.0	21.9	
32 Acetone	43	7.308	7.308	0.000	99	352529	20.0	22.0	
33 1,1,2-Trichloro-1,2,2-trif	101	7.478	7.478	0.000	96	318667	20.0	20.6	
34 1,1-Dichloroethene	61	7.709	7.709	0.000	91	301628	20.0	22.2	
35 Acetonitrile	41	7.746	7.746	0.000	99	208101	20.0	24.4	
36 2-Methyl-2-propanol	59	7.922	7.922	0.000	91	511841	20.0	20.4	
38 3-Chloro-1-propene	41	8.476	8.476	0.000	92	316684	20.0	21.7	
39 Methylene Chloride	49	8.664	8.664	0.000	91	280920	20.0	21.5	
40 Carbon disulfide	76	8.713	8.713	0.000	96	330241	20.0	20.7	
41 Acrylonitrile	53	8.823	8.823	0.000	94	187638	20.0	22.1	
42 Methyl tert-butyl ether	73	9.242	9.242	0.000	92	489659	20.0	21.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
43 trans-1,2-Dichloroethene	61	9.431	9.431	0.000	91	261216	20.0	21.5	
44 Hexane	41	9.857	9.857	0.000	84	293299	20.0	23.7	
45 1,1-Dichloroethane	63	10.301	10.301	0.000	99	347233	20.0	21.4	
47 Vinyl acetate	43	10.331	10.331	0.000	100	716881	20.0	20.5	
48 2-Butanone (MEK)	72	11.177	11.177	0.000	93	91998	20.0	21.1	
51 cis-1,2-Dichloroethene	96	11.603	11.603	0.000	94	166832	20.0	20.4	
52 Ethyl acetate	43	11.621	11.621	0.000	94	626428	20.0	22.2	
53 Chloroform	83	11.962	11.962	0.000	94	371053	20.0	21.5	
54 Tetrahydrofuran	42	12.406	12.406	0.000	90	359778	20.0	22.6	
55 1,1,1-Trichloroethane	97	12.905	12.905	0.000	96	407260	20.0	21.4	
56 Cyclohexane	84	13.099	13.099	0.000	89	232289	20.0	21.4	
58 Isooctane	57	13.391	13.391	0.000	96	1314059	20.0	21.8	
59 Carbon tetrachloride	117	13.489	13.489	0.000	98	382532	20.0	18.1	
60 n-Butanol	56	13.495	13.495	0.000	71	231729	20.0	19.5	
61 1,2-Dichloroethane	62	13.635	13.635	0.000	96	313591	20.0	22.4	
63 Benzene	78	13.762	13.762	0.000	97	570922	20.0	20.4	
64 n-Heptane	43	13.927	13.927	0.000	89	628771	20.0	23.4	
65 Trichloroethene	130	15.156	15.156	0.000	97	270450	20.0	20.1	
66 1,2-Dichloropropane	76	15.460	15.460	0.000	84	100461	20.0	22.3	
67 Methyl methacrylate	69	15.618	15.618	0.000	86	235837	20.0	22.0	
68 Dichlorobromomethane	85	15.922	15.922	0.000	97	292558	20.0	21.0	
69 1,4-Dioxane	88	15.934	15.934	0.000	70	146506	20.0	19.0	
70 Dibromomethane	174	15.977	15.977	0.000	97	233743	20.0	18.9	
71 4-Methyl-2-pentanone (MIBK	43	16.774	16.774	0.000	96	935103	20.0	22.3	
72 cis-1,3-Dichloropropene	75	17.151	17.151	0.000	96	423422	20.0	20.9	
73 n-Octane	43	17.832	17.832	0.000	95	1009537	20.0	23.6	
75 Toluene	91	17.966	17.966	0.000	92	792859	20.0	20.1	
76 trans-1,3-Dichloropropene	75	18.246	18.246	0.000	93	393157	20.0	21.3	
77 1,1,2-Trichloroethane	97	18.593	18.593	0.000	97	256269	20.0	20.2	
78 2-Hexanone	58	18.708	18.708	0.000	88	414575	20.0	21.6	
80 Tetrachloroethene	166	19.475	19.475	0.000	94	405555	20.0	19.8	
81 Chlorodibromomethane	129	19.700	19.700	0.000	97	538143	20.0	20.4	
82 Ethylene Dibromide	107	20.156	20.156	0.000	98	426054	20.0	20.4	
83 Chlorobenzene	112	21.148	21.148	0.000	93	695840	20.0	20.1	
84 n-Nonane	43	21.215	21.215	0.000	92	1109584	20.0	25.8	
86 Ethylbenzene	91	21.324	21.324	0.000	99	1182831	20.0	21.4	
87 m-Xylene & p-Xylene	91	21.507	21.507	0.000	98	1863440	40.0	43.6	
88 o-Xylene	91	22.407	22.407	0.000	96	937367	20.0	22.0	
89 Styrene	104	22.438	22.438	0.000	96	745107	20.0	22.7	
90 Bromoform	173	23.003	23.003	0.000	96	520217	20.0	20.0	
92 Isopropylbenzene	120	23.192	23.192	0.000	97	357331	20.0	22.0	
93 1,1,2,2-Tetrachloroethane	83	23.387	23.387	0.000	99	609616	20.0	20.4	
97 1,2,3-Trichloropropane	110	23.691	23.691	0.000	93	192271	20.0	20.8	
99 N-Propylbenzene	91	24.031	24.031	0.000	98	1556117	20.0	22.2	
101 n-Decane	57	24.044	24.044	0.000	82	990575	20.0	24.0	
102 4-Ethyltoluene	120	24.269	24.269	0.000	99	393058	20.0	22.0	
103 2-Chlorotoluene	126	24.342	24.342	0.000	98	314019	20.0	20.9	
104 1,3,5-Trimethylbenzene	120	24.366	24.366	0.000	92	554603	20.0	21.1	
105 Alpha Methyl Styrene	118	24.944	24.944	0.000	86	561449	20.0	22.7	
106 tert-Butylbenzene	91	25.096	25.096	0.000	92	749340	20.0	20.8	
107 1,2,4-Trimethylbenzene	120	25.163	25.163	0.000	98	532994	20.0	22.3	
108 sec-Butylbenzene	105	25.540	25.540	0.000	98	1633409	20.0	21.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
109 4-Isopropyltoluene	119	25.820	25.820	0.000	97	1397347	20.0	21.5	
110 1,3-Dichlorobenzene	146	25.923	25.923	0.000	98	696491	20.0	21.6	
111 1,4-Dichlorobenzene	146	26.124	26.124	0.000	92	688267	20.0	21.1	
113 Benzyl chloride	91	26.295	26.295	0.000	97	786325	16.0	14.6	
114 Undecane	57	26.489	26.489	0.000	88	979045	20.0	21.5	
115 n-Butylbenzene	92	26.641	26.641	0.000	98	668383	20.0	22.4	
116 1,2-Dichlorobenzene	146	26.854	26.854	0.000	94	639306	20.0	20.9	
118 Dodecane	57	28.673	28.673	0.000	89	679533	20.0	20.1	
119 1,2,4-Trichlorobenzene	180	30.170	30.170	0.000	95	395077	20.0	19.9	
120 Hexachlorobutadiene	225	30.529	30.529	0.000	96	386422	20.0	19.5	
121 Naphthalene	128	30.620	30.620	0.000	98	1005957	20.0	17.4	
122 1,2,3-Trichlorobenzene	180	31.131	31.131	0.000	95	332524	20.0	19.3	
A 139 C6 Range	1	9.887	(9.659-10.115)		0	1437810	20.0	21.2	
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.645)		0	147278762	20.0	2171.7	E
A 146 Total VOC as Hexane	1	16.257	(3.834-28.645)		0	147278762	20.0	2171.7	E
A 147 TVOC as Toluene	1	16.634	(3.704-29.534)		0	149044907	20.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.619	(3.704-29.534)		0	149045997	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1525191	NC	NC	
A 149 PCE Range	1	19.505	(19.296-19.715)		0	3918005	NC	NC	
S 150 Xylenes, Total	91				0		60.0	65.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

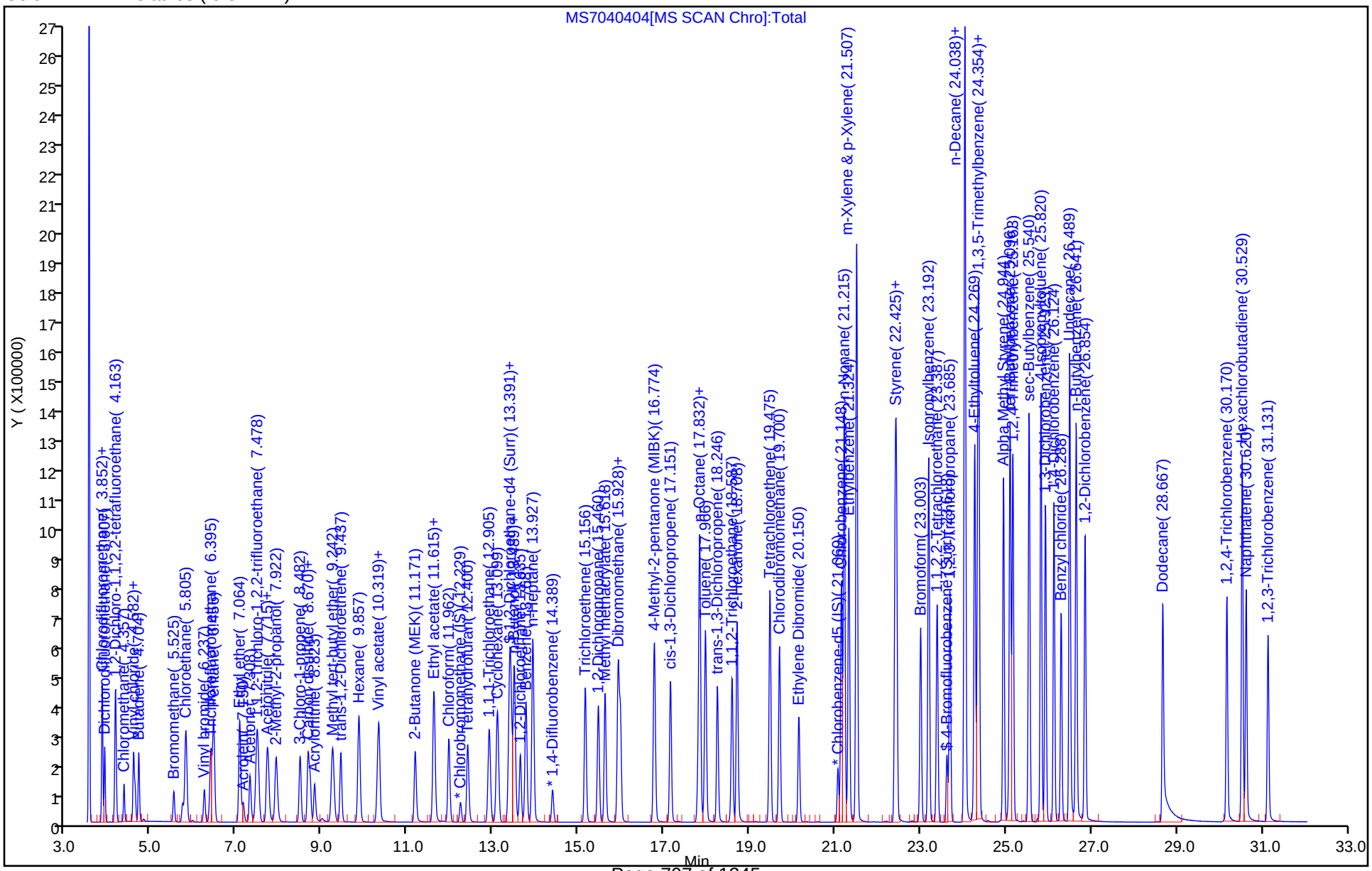
Report Date: 05-Apr-2018 12:24:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040404.D

Injection Date:	04-Apr-2018 12:25:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	LCSD 20ppbv			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\MS7040404.D
Lims ID: LCSD 20ppbv
Client ID:
Sample Type: LCSD
Inject. Date: 04-Apr-2018 12:25:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 12:24:09 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: phanthasena Date: 05-Apr-2018 12:24:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.52	113.05
$ 5 Toluene-d8 (Surr)	4.00	3.99	99.84
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.25	106.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-216406/4

Matrix: Air Lab File ID: MS7040504.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/05/2018 13:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	117		1.6	1.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	135		2.7	1.4	0.47
76-13-1	1,1,2-Trichloro-1,2,2-trifl uoroethane	155		6.1	3.1	1.2
79-00-5	1,1,2-Trichloroethane	108		2.2	1.1	0.37
75-34-3	1,1-Dichloroethane	86.4		1.2	0.81	0.29
75-35-4	1,1-Dichloroethene	87.3		3.2	1.6	0.51
120-82-1	1,2,4-Trichlorobenzene	142		15	8.9	3.2
95-63-6	1,2,4-Trimethylbenzene	106		3.9	2.0	0.80
106-93-4	1,2-Dibromoethane (EDB)	153		6.1	1.5	0.58
95-50-1	1,2-Dichlorobenzene	121		4.8	2.4	0.78
107-06-2	1,2-Dichloroethane	93.2		3.2	0.81	0.36
78-87-5	1,2-Dichloropropane	105		4.6	3.7	1.1
108-67-8	1,3,5-Trimethylbenzene	99.5		3.9	2.0	0.61
541-73-1	1,3-Dichlorobenzene	125		4.8	2.4	0.66
106-46-7	1,4-Dichlorobenzene	120		4.8	2.4	0.90
78-93-3	2-Butanone (MEK)	62.0		2.4	1.2	0.59
591-78-6	2-Hexanone	85.5		1.6	0.82	0.36
622-96-8	4-Ethyltoluene	106		3.9	2.0	0.92
108-10-1	4-Methyl-2-pentanone (MIBK)	92.1		3.3	1.6	0.55
67-64-1	Acetone	52.7		12	0.95	0.42
71-43-2	Benzene	66.1		1.3	0.64	0.25
100-44-7	Benzyl chloride	71.9		4.1	2.1	0.84
75-27-4	Bromodichloromethane	144		2.0	1.3	0.44
75-25-2	Bromoform	199		4.1	2.1	0.72
74-83-9	Bromomethane	87.0		3.9	3.1	1.3
106-99-0	Butadiene	47.7		1.8	0.88	0.34
75-15-0	Carbon disulfide	63.8		2.5	1.2	0.47
56-23-5	Carbon tetrachloride	115		5.0	2.5	0.94
108-90-7	Chlorobenzene	90.2		1.4	0.92	0.29
75-00-3	Chloroethane	56.0		2.6	2.1	0.81
67-66-3	Chloroform	105		1.5	0.98	0.46
74-87-3	Chloromethane	44.4		1.7	0.83	0.41
156-59-2	cis-1,2-Dichloroethene	81.3		1.6	0.79	0.35
10061-01-5	cis-1,3-Dichloropropene	95.8		3.6	1.8	0.47
124-48-1	Dibromochloromethane	170		3.4	1.7	0.67

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-216406/4

Matrix: Air Lab File ID: MS7040504.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 04/05/2018 13:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 216406 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-71-8	Dichlorodifluoromethane	91.2		4.0	2.0	0.72
100-41-4	Ethylbenzene	90.2		1.7	0.87	0.27
87-68-3	Hexachlorobutadiene	196		21	13	4.6
1634-04-4	Methyl tert-butyl ether	78.0		2.9	1.4	0.43
75-09-2	Methylene Chloride	74.3		1.4	0.69	0.25
179601-23-1	m-Xylene & p-Xylene	182		3.5	0.87	0.43
91-20-3	Naphthalene	84.5		10	6.3	2.9
95-47-6	o-Xylene	92.9		1.7	0.87	0.23
100-42-5	Styrene	93.6		1.7	0.85	0.25
127-18-4	Tetrachloroethene	130		2.7	1.4	0.35
108-88-3	Toluene	76.3		1.5	0.75	0.19
156-60-5	trans-1,2-Dichloroethene	84.8		1.6	0.79	0.40
10061-02-6	trans-1,3-Dichloropropene	94.4		1.8	0.91	0.40
79-01-6	Trichloroethene	109		4.3	2.1	0.56
75-69-4	Trichlorofluoromethane	121		4.5	2.2	1.1
108-05-4	Vinyl acetate	72.0		2.8	1.4	0.51
75-01-4	Vinyl chloride	51.8		2.0	1.0	0.31
123-91-1	1,4-Dioxane	69.4		2.9	1.4	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
460-00-4	4-Bromofluorobenzene (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040504.D
Lims ID: LCSD 20ppbv
Client ID:
Sample Type: LCSD
Inject. Date: 05-Apr-2018 13:45:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 14:45:25 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: leeh Date: 05-Apr-2018 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.229	12.229	0.000	93	34410	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.383	14.383	0.000	97	148863	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.063	21.063	0.000	90	161481	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.428	13.428	0.000	96	64469	4.00	4.59	
$ 5 Toluene-d8 (Surr)	100	17.784	17.784	0.000	98	105459	4.00	4.07	
$ 6 4-Bromofluorobenzene (Surr	95	23.606	23.606	0.000	88	130093	4.00	4.34	
11 Propene	41	3.840	3.840	0.000	98	183428	20.0	22.1	
12 Chlorodifluoromethane	51	3.852	3.852	0.000	92	321639	20.0	21.2	
13 Dichlorodifluoromethane	85	3.907	3.907	0.000	98	255801	20.0	18.4	
14 1,2-Dichloro-1,1,2,2-tetra	135	4.157	4.157	0.000	97	247503	20.0	19.8	
16 Chloromethane	50	4.357	4.357	0.000	99	159779	20.0	21.5	
17 Butane	43	4.582	4.582	0.000	85	277400	20.0	21.9	
18 Vinyl chloride	62	4.619	4.619	0.000	98	132700	20.0	20.3	
19 Butadiene	39	4.704	4.704	0.000	93	142833	20.0	21.6	
21 Bromomethane	94	5.519	5.519	0.000	98	111408	20.0	22.4	
22 Chloroethane	64	5.726	5.726	0.000	75	80051	20.0	21.2	
25 Vinyl bromide	106	6.237	6.237	0.000	99	123662	20.0	20.5	
26 Trichlorofluoromethane	101	6.389	6.389	0.000	97	409642	20.0	21.6	
27 Pentane	43	6.450	6.450	0.000	95	447074	20.0	23.2	
29 Ethyl ether	74	7.058	7.058	0.000	42	76559	20.0	21.1	
31 Acrolein	56	7.144	7.144	0.000	83	91543	20.0	22.0	
32 Acetone	43	7.302	7.302	0.000	99	358776	20.0	22.2	
33 1,1,2-Trichloro-1,2,2-trif	101	7.472	7.472	0.000	96	315989	20.0	20.2	
34 1,1-Dichloroethene	61	7.703	7.703	0.000	91	302670	20.0	22.0	
35 Acetonitrile	41	7.740	7.740	0.000	99	212740	20.0	24.7	
36 2-Methyl-2-propanol	59	7.922	7.922	0.000	91	520490	20.0	20.6	
38 3-Chloro-1-propene	41	8.476	8.476	0.000	92	318058	20.0	21.6	
39 Methylene Chloride	49	8.658	8.658	0.000	91	282064	20.0	21.4	
40 Carbon disulfide	76	8.707	8.707	0.000	96	330964	20.0	20.5	
41 Acrylonitrile	53	8.817	8.817	0.000	94	176797	20.0	20.6	
42 Methyl tert-butyl ether	73	9.236	9.236	0.000	91	494524	20.0	21.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
43 trans-1,2-Dichloroethene	61	9.431	9.431	0.000	92	262798	20.0	21.4	
44 Hexane	41	9.851	9.851	0.000	84	299574	20.0	24.0	
45 1,1-Dichloroethane	63	10.289	10.289	0.000	99	349980	20.0	21.3	
47 Vinyl acetate	43	10.325	10.325	0.000	100	721629	20.0	20.4	
48 2-Butanone (MEK)	72	11.171	11.171	0.000	93	92480	20.0	21.0	
51 cis-1,2-Dichloroethene	96	11.591	11.591	0.000	94	169609	20.0	20.5	
52 Ethyl acetate	43	11.615	11.615	0.000	95	646707	20.0	22.6	
53 Chloroform	83	11.956	11.956	0.000	94	374093	20.0	21.4	
54 Tetrahydrofuran	42	12.394	12.394	0.000	90	365321	20.0	22.7	
55 1,1,1-Trichloroethane	97	12.899	12.899	0.000	96	413366	20.0	21.5	
56 Cyclohexane	84	13.087	13.087	0.000	89	234522	20.0	21.7	
58 Isooctane	57	13.385	13.385	0.000	97	1334696	20.0	22.2	
59 Carbon tetrachloride	117	13.483	13.483	0.000	97	384822	20.0	18.3	
60 n-Butanol	56	13.489	13.489	0.000	71	216573	20.0	18.0	
61 1,2-Dichloroethane	62	13.629	13.629	0.000	96	321149	20.0	23.0	
63 Benzene	78	13.756	13.756	0.000	97	577321	20.0	20.7	
64 n-Heptane	43	13.921	13.921	0.000	89	641097	20.0	23.9	
65 Trichloroethene	130	15.150	15.150	0.000	96	272647	20.0	20.3	
66 1,2-Dichloropropane	76	15.448	15.448	0.000	85	102079	20.0	22.7	
67 Methyl methacrylate	69	15.612	15.612	0.000	85	240193	20.0	22.5	
68 Dichlorobromomethane	85	15.916	15.916	0.000	97	298238	20.0	21.5	
69 1,4-Dioxane	88	15.928	15.928	0.000	71	147840	20.0	19.2	
70 Dibromomethane	174	15.971	15.971	0.000	97	236634	20.0	19.1	
71 4-Methyl-2-pentanone (MIBK	43	16.762	16.762	0.000	96	942341	20.0	22.5	
72 cis-1,3-Dichloropropene	75	17.139	17.139	0.000	95	426754	20.0	21.1	
73 n-Octane	43	17.820	17.820	0.000	95	1003991	20.0	23.0	
75 Toluene	91	17.960	17.960	0.000	92	795305	20.0	20.2	
76 trans-1,3-Dichloropropene	75	18.240	18.240	0.000	93	392714	20.0	20.8	
77 1,1,2-Trichloroethane	97	18.581	18.581	0.000	97	256944	20.0	19.8	
78 2-Hexanone	58	18.696	18.696	0.000	88	409921	20.0	20.9	
80 Tetrachloroethene	166	19.469	19.469	0.000	94	403665	20.0	19.2	
81 Chlorodibromomethane	129	19.694	19.694	0.000	97	538280	20.0	19.9	
82 Ethylene Dibromide	107	20.144	20.144	0.000	99	424894	20.0	19.9	
83 Chlorobenzene	112	21.142	21.142	0.000	91	694060	20.0	19.6	
84 n-Nonane	43	21.203	21.203	0.000	91	1124661	20.0	25.6	
86 Ethylbenzene	91	21.312	21.312	0.000	99	1173320	20.0	20.8	
87 m-Xylene & p-Xylene	91	21.495	21.495	0.000	98	1836752	40.0	42.0	
88 o-Xylene	91	22.401	22.401	0.000	98	930626	20.0	21.4	
89 Styrene	104	22.432	22.432	0.000	96	737308	20.0	22.0	
90 Bromoform	173	22.997	22.997	0.000	95	513362	20.0	19.3	
92 Isopropylbenzene	120	23.180	23.180	0.000	97	352105	20.0	21.2	
93 1,1,2,2-Tetrachloroethane	83	23.381	23.381	0.000	99	601467	20.0	19.7	
97 1,2,3-Trichloropropane	110	23.679	23.679	0.000	93	191550	20.0	20.2	
99 N-Propylbenzene	91	24.025	24.025	0.000	98	1544304	20.0	21.5	
101 n-Decane	57	24.038	24.038	0.000	82	974983	20.0	23.0	
102 4-Ethyltoluene	120	24.263	24.263	0.000	99	393402	20.0	21.5	
103 2-Chlorotoluene	126	24.336	24.336	0.000	98	314476	20.0	20.4	
104 1,3,5-Trimethylbenzene	120	24.360	24.360	0.000	91	545139	20.0	20.2	
105 Alpha Methyl Styrene	118	24.932	24.932	0.000	86	555129	20.0	21.9	
106 tert-Butylbenzene	91	25.090	25.090	0.000	93	744654	20.0	20.2	
107 1,2,4-Trimethylbenzene	120	25.151	25.151	0.000	98	529147	20.0	21.6	
108 sec-Butylbenzene	105	25.534	25.534	0.000	98	1612633	20.0	20.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
109 4-Isopropyltoluene	119	25.814	25.814	0.000	97	1385724	20.0	20.8	
110 1,3-Dichlorobenzene	146	25.917	25.917	0.000	98	687110	20.0	20.8	
111 1,4-Dichlorobenzene	146	26.112	26.112	0.000	92	669012	20.0	20.0	
113 Benzyl chloride	91	26.282	26.282	0.000	97	767107	16.0	13.9	
114 Undecane	57	26.483	26.483	0.000	88	957937	20.0	20.5	
115 n-Butylbenzene	92	26.635	26.635	0.000	98	660379	20.0	21.6	
116 1,2-Dichlorobenzene	146	26.842	26.842	0.000	94	632003	20.0	20.2	
118 Dodecane	57	28.661	28.661	0.000	87	643568	20.0	18.6	
119 1,2,4-Trichlorobenzene	180	30.164	30.164	0.000	94	389812	20.0	19.2	
120 Hexachlorobutadiene	225	30.523	30.523	0.000	95	373104	20.0	18.4	
121 Naphthalene	128	30.614	30.614	0.000	98	956500	20.0	16.1	
122 1,2,3-Trichlorobenzene	180	31.125	31.125	0.000	95	324361	20.0	18.4	
A 139 C6 Range	1	9.887	(9.647-10.127)		0	1461862	20.0	21.3	
A 145 Nonmethane Organic Compoun	1	16.257	(3.834-28.679)		0	146922759	20.0	2143.4	E
A 146 Total VOC as Hexane	1	16.257	(3.834-28.679)		0	146922759	20.0	2143.4	E
A 147 TVOC as Toluene	1	16.491	(3.691-29.290)		0	148381601	20.0	0	
A 144 Total VOCs as Tetrachloroe	1	16.491	(3.691-29.290)		0	148381601	20.0	0	
A 143 Toluene Range	1	17.250	(17.100-17.400)		0	1531640	NC	NC	
A 149 PCE Range	1	19.441	(19.290-19.684)		0	2505191	NC	NC	
S 150 Xylenes, Total	91				0		60.0	63.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

VACORPIC40_00572	Amount Added: 125.00	Units: mL	
VAMSIS20_00126	Amount Added: 50.00	Units: mL	Run Reagent

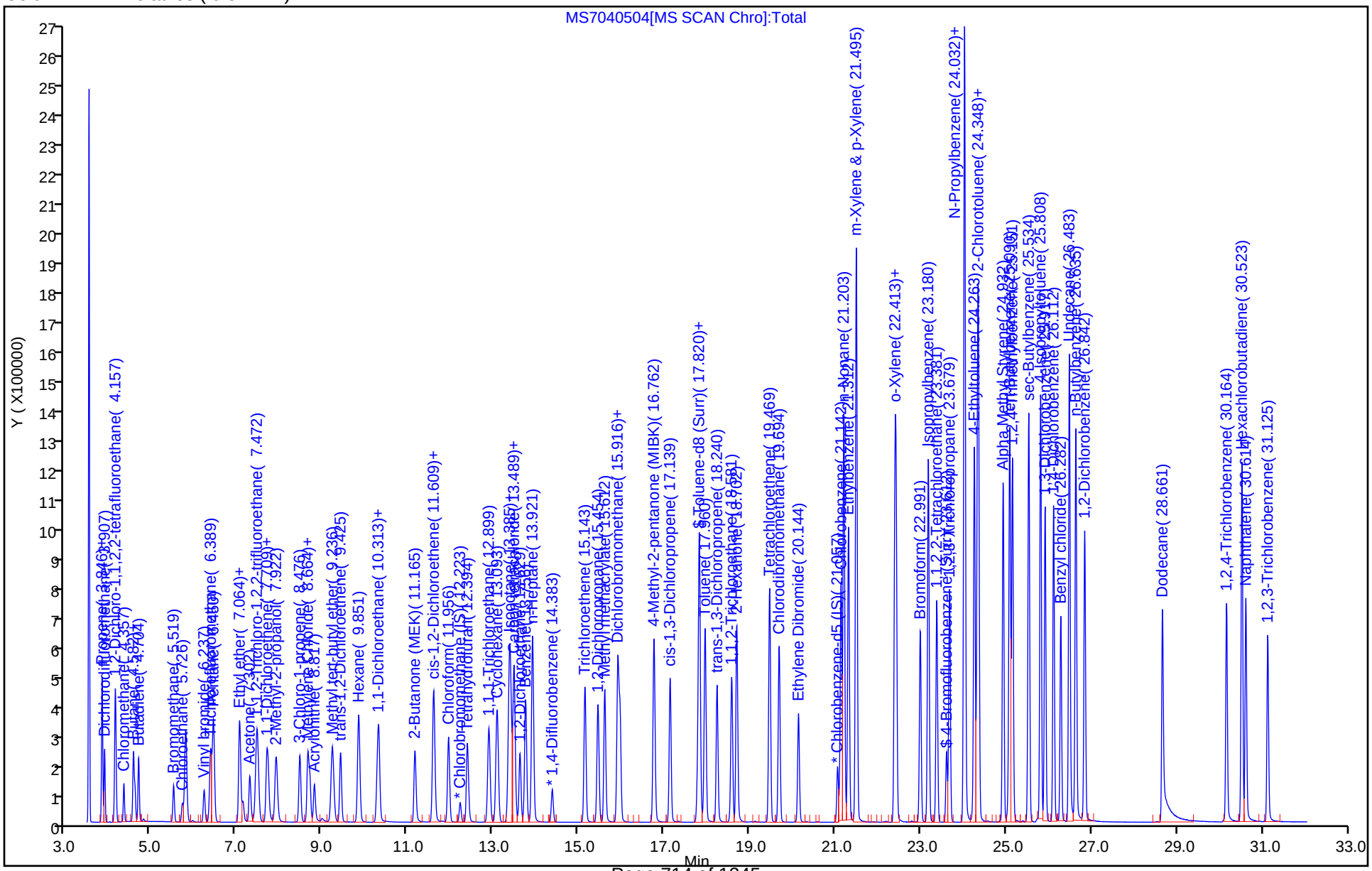
Report Date: 05-Apr-2018 14:45:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040504.D

Injection Date:	05-Apr-2018 13:45:30	Instrument ID:	ATMS7	Operator ID:	LHS
Lims ID:	LCSD 20ppbv			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\MS7040504.D
Lims ID: LCSD 20ppbv
Client ID:
Sample Type: LCSD
Inject. Date: 05-Apr-2018 13:45:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 20ppbv
Misc. Info.: 125 mL
Operator ID: LHS Instrument ID: ATMS7

Method: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 05-Apr-2018 14:45:25 Calib Date: 15-Mar-2018 21:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS7\20180315-55361.b\MS7031511.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: leeh Date: 05-Apr-2018 14:44:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	4.00	4.59	114.80
$ 5 Toluene-d8 (Surr)	4.00	4.07	101.68
$ 6 4-Bromofluorobenzene (Surr)	4.00	4.34	108.42

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Start Date: 03/14/2018 14:31

Analysis Batch Number: 212907 End Date: 03/15/2018 09:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-212907/1		03/14/2018 14:31	1	MS7031401.D	RTX-Volatiles 0.32(mm)
IC 320-212907/3		03/14/2018 17:28	1	MS7031403.D	RTX-Volatiles 0.32(mm)
IC 320-212907/4		03/14/2018 18:21	1	MS7031404.D	RTX-Volatiles 0.32(mm)
IC 320-212907/5		03/14/2018 19:13	1	MS7031405.D	RTX-Volatiles 0.32(mm)
IC 320-212907/6		03/14/2018 20:07	1	MS7031406.D	RTX-Volatiles 0.32(mm)
IC 320-212907/8		03/14/2018 21:57	1	MS7031408.D	RTX-Volatiles 0.32(mm)
ICIS 320-212907/9		03/14/2018 22:49	1	MS7031409.D	RTX-Volatiles 0.32(mm)
IC 320-212907/10		03/14/2018 23:44	1	MS7031410.D	RTX-Volatiles 0.32(mm)
IC 320-212907/11		03/15/2018 00:39	1	MS7031411.D	RTX-Volatiles 0.32(mm)
IC 320-212907/14		03/15/2018 07:51	1	MS7031414.D	RTX-Volatiles 0.32(mm)
ICV 320-212907/15		03/15/2018 09:01	1	MS7031415.D	RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Start Date: 04/04/2018 09:47

Analysis Batch Number: 216210 End Date: 04/05/2018 09:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-216210/1		04/04/2018 09:47	1	MS7040401.D	RTX-Volatiles 0.32(mm)
CCVIS 320-216210/2		04/04/2018 10:39	1	MS7040402.D	RTX-Volatiles 0.32(mm)
LCS 320-216210/3		04/04/2018 11:32	1	MS7040403.D	RTX-Volatiles 0.32(mm)
LCSD 320-216210/4		04/04/2018 12:25	1	MS7040404.D	RTX-Volatiles 0.32(mm)
CCV 320-216210/5		04/04/2018 13:18	1		RTX-Volatiles 0.32(mm)
MB 320-216210/7		04/04/2018 15:07	1	MS7040407.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/04/2018 16:07	1		RTX-Volatiles 0.32(mm)
320-37345-1		04/04/2018 19:39	1	MS7040412.D	RTX-Volatiles 0.32(mm)
320-37345-2		04/04/2018 20:36	1	MS7040413.D	RTX-Volatiles 0.32(mm)
320-37345-3		04/04/2018 21:32	1	MS7040414.D	RTX-Volatiles 0.32(mm)
320-37345-5		04/04/2018 22:29	1	MS7040415.D	RTX-Volatiles 0.32(mm)
320-37345-6		04/04/2018 23:25	1	MS7040416.D	RTX-Volatiles 0.32(mm)
320-37345-7		04/05/2018 01:16	1	MS7040418.D	RTX-Volatiles 0.32(mm)
320-37345-8		04/05/2018 02:13	1	MS7040419.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/05/2018 08:42	0.333		RTX-Volatiles 0.32(mm)
CCVC 320-216210/23		04/05/2018 09:34	1	MS7040423.D	RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS7 Start Date: 04/05/2018 11:07

Analysis Batch Number: 216406 End Date: 04/06/2018 10:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-216406/1		04/05/2018 11:07	1	MS7040501.D	RTX-Volatiles 0.32(mm)
CCVIS 320-216406/2		04/05/2018 11:59	1	MS7040502.D	RTX-Volatiles 0.32(mm)
LCS 320-216406/3		04/05/2018 12:52	1	MS7040503.D	RTX-Volatiles 0.32(mm)
LCSD 320-216406/4		04/05/2018 13:45	1	MS7040504.D	RTX-Volatiles 0.32(mm)
CCV 320-216406/21 CCVIS		04/05/2018 14:38	1		RTX-Volatiles 0.32(mm)
MB 320-216406/6		04/05/2018 16:27	1	MS7040507.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/05/2018 17:27	0.333		RTX-Volatiles 0.32(mm)
320-37345-21		04/05/2018 18:23	1	MS7040509.D	RTX-Volatiles 0.32(mm)
320-37345-10		04/05/2018 19:18	1	MS7040510.D	RTX-Volatiles 0.32(mm)
320-37345-11		04/05/2018 20:15	1	MS7040511.D	RTX-Volatiles 0.32(mm)
320-37345-12		04/05/2018 21:11	1	MS7040512.D	RTX-Volatiles 0.32(mm)
320-37345-13		04/05/2018 22:08	1	MS7040513.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/05/2018 23:04	1		RTX-Volatiles 0.32(mm)
320-37345-16		04/06/2018 00:01	1	MS7040515.D	RTX-Volatiles 0.32(mm)
320-37345-17		04/06/2018 00:57	1	MS7040516.D	RTX-Volatiles 0.32(mm)
320-37345-18		04/06/2018 02:48	1	MS7040518.D	RTX-Volatiles 0.32(mm)
320-37345-20		04/06/2018 03:44	1	MS7040519.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/06/2018 04:38	2.2		RTX-Volatiles 0.32(mm)
ZZZZZ		04/06/2018 05:36	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/06/2018 06:28	19.6		RTX-Volatiles 0.32(mm)
ZZZZZ		04/06/2018 07:25	1		RTX-Volatiles 0.32(mm)
320-37345-14		04/06/2018 08:21	1	MS7040524.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/06/2018 09:23	0.333		RTX-Volatiles 0.32(mm)
CCVC 320-216406/27		04/06/2018 10:17	1	MS7040526.D	RTX-Volatiles 0.32(mm)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

MS VOA AIR Data Review Checklist

Job(s): 320-37247, 320-37345
Instrument ID: ATMS 7 (WL56203)
TO-14A TO-14A MOD (TO-15) (TO-15 MOD) TO-15 SIM
ICAL Batch: 212906, 212907
TALS Batch: 216109, 216210

Review Items	Level 1 Yes	Level 1 No	Level 2	NA
Initial Calibration				
1. Is ICAL locked in Chrom & TALS?	✓		✓	
2. Is ICV properly linked in TALS for L3/L4 jobs?	✓		✓	
Continuing Calibration				
1. BFB tune documentation meets criteria? The PFTBA Tune Documentation is attached in TALS (SIM methods only)?	✓		✓	
2. All Internal Standards within 50-200% of ICAL mid-point (TO-14A/TO-14A MOD) or 60-140% (TO-15/ TO-15 MOD?	✓		✓	
3. Does the %D meet:30%D for standard program, and 20%D for DoD?	✓		✓	
4. Isomeric pairs checked for correct peak assignment? • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • Hexane / Vinyl acetate • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloropropene • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlorobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓		✓	
Client Samples & QC Sample Results				
1. Was analysis done within holding times?	✓		✓	
2. Have initial/final volumes been changed to 50mL/250mL in Analyst Desktop for all TO14/TO15_Mod samples and QC (excluding BFB)?	✓		✓	
3. Are Chromatograms reviewed and spectra verified?	✓		✓	
4. Are positive results within calibration range?	✓		✓	
5. Are all positive results within RT windows?	✓		✓	
6. All target cpds in MB < RL (< ½ RL for DoD)? Requires NCM if "no."	✓		✓	
7. Are surrogate recoveries for MB and LCS/LCSD within control limits?	✓		✓	
8. Are target constituents in LCS/LCSD within control limits?	✓		✓	
9. Are all Chrom graphics uploaded?	✓		✓	
10. Are all QC samples properly linked in TALS?	✓		✓	
11. Do the Internal Standards meet criteria?	✓		✓	
12. Do results (e.g., dilutions) make sense?	✓		✓	
13. Have all flags been reviewed for appropriateness?	✓		✓	
14. All manual integrations appropriate and documented?	✓		✓	
15. Are non-conformances documented as NCMs?			✓	✓
16. Are client sample surrogate failures flagged and NCM written?				✓
17. Dilutions due to target cpds? ____ Dilutions due to non-targets? ____				✓
18. Has QC checker been run?	✓		✓	

1st Level Reviewer / Date: Atchara Phanthavong 4/5/18
2nd Level Reviewer / Date: YSB 4.6.18

Comments: 4/5/18

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 180404 Worklist Num: 56203
Instrument: ATMS7 Method: TO15_ATMS7N
Batch Directory: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b
Anaylysis Type: VOA Creator: Lee, Hoseung
Inj Volume: 5.00 Inj Vol Units: mL
Run Reagents:
VAMSIS20_00126, Amount Added: 50.00 , Units: mL

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
BFB	320-0056203-001	BFB	04-Apr-2018 09:47:30	MS7040401.D	1	1.0		air
CCVIS 20ppbv	320-0056203-002	CCVIS	04-Apr-2018 10:39:30	MS7040402.D	2	1.0		air
LCS 20ppbv	320-0056203-003	LCS	04-Apr-2018 11:32:30	MS7040403.D	2	1.0		air
LCSD 20ppbv	320-0056203-004	LCSD	04-Apr-2018 12:25:30	MS7040404.D	2	1.0		air
CCV ADD 20ppbv	320-0056203-005	CCV	04-Apr-2018 13:18:30	MS7040405.D	4	1.0		air
IB	320-0056203-006	EB	04-Apr-2018 14:12:30	MS7040406.D	16	1.0		air
MB	320-0056203-007	MB	04-Apr-2018 15:07:30	MS7040407.D	16	1.0		air
MB	320-0056203-008	MB	04-Apr-2018 16:07:30	MS7040408.D	16	1.0		air
320-37247-B-1	320-0056203-009	Client	04-Apr-2018 16:59:30	MS7040409.D	5	1.0	Route 32	air
320-37247-B-3	320-0056203-010	Client	04-Apr-2018 17:51:30	MS7040410.D	6	1.0	Grid 1	air
320-37247-B-5	320-0056203-011	Client	04-Apr-2018 18:43:30	MS7040411.D	7	1.0	Probe 18	air
320-37345-A-1	320-0056203-012	Client	04-Apr-2018 19:39:30	MS7040412.D	8	1.0	774VMP-1_0318	air
320-37345-A-2	320-0056203-013	Client	04-Apr-2018 20:36:30	MS7040413.D	9	1.0	774VMP-2_0318	air
320-37345-A-3	320-0056203-014	Client	04-Apr-2018 21:32:30	MS7040414.D	10	1.0	774VMP-3_0318	air
320-37345-A-5	320-0056203-015	Client	04-Apr-2018 22:29:30	MS7040415.D	11	1.0	776VMP-1_0318	air
320-37345-A-6	320-0056203-016	Client	04-Apr-2018 23:25:30	MS7040416.D	12	1.0	776VMP-2_0318	air
IB (H2O)	320-0056203-017	Client	05-Apr-2018 00:19:30	MS7040417.D	13	1.0		air
320-37345-A-7	320-0056203-018	Client	05-Apr-2018 01:16:30	MS7040418.D	14	1.0	776VMP-2_0318-a	air
320-37345-A-8	320-0056203-019	Client	05-Apr-2018 02:13:30	MS7040419.D	15	1.0	776VMP-3_0318	air
320-37764-A-1	320-0056203-022	Client	05-Apr-2018 08:42:30	MS7040422.D	16	0.3	34000092	air
CCVC	320-0056203-023	CCVC	05-Apr-2018 09:34:30	MS7040423.D	2	1.0		air

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 180404 Worklist Number: 56203
Instrument Name: ATMS7 Chrom Method: TO15_ATMS7N
Data Directory: \\ChromNA\Sacramento\ChromData\ATMS7\20180404-56203.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	MSA - TO15_MOD - ICAL Raw Batch: 216209	MSA - TO15 - ICAL Raw Batch: 216210	MSA - TO14 - ICAL Raw Batch: 216211	MSA - TO15 _PREC - ICAL Raw Batch: 216212
# 1 BFB	# 1 BFB	# 1 BFB	# 1 BFB	# 1 BFB
# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv
# 3 LCS 20ppbv	# 3 LCS 20ppbv	# 3 LCS 20ppbv	# 3 LCS 20ppbv	# 3 LCS 20ppbv
# 4 LCSD 20ppbv	# 4 LCSD 20ppbv	# 4 LCSD 20ppbv	# 4 LCSD 20ppbv	# 4 LCSD 20ppbv
# 5 CCV ADD 20ppbv	# 5 CCV ADD 20ppbv	# 5 CCV ADD 20ppbv	# 5 CCV ADD 20ppbv	# 5 CCV ADD 20ppbv
# 6 IB	# 6 IB	# 6 IB	# 6 IB	# 6 IB
# 7 MB	# 7 MB	# 7 MB	# 7 MB	# 7 MB
# 8 MB	# 8 MB	# 8 MB	# 8 MB	# 8 MB
# 9 320-37247-B-1	# 9 320-37247-B-1			
#10 320-37247-B-3	#10 320-37247-B-3			
#11 320-37247-B-5	#11 320-37247-B-5			
#12 320-37345-A-1		#12 320-37345-A-1		
#13 320-37345-A-2		#13 320-37345-A-2		
#14 320-37345-A-3		#14 320-37345-A-3		
#15 320-37345-A-5		#15 320-37345-A-5		
#16 320-37345-A-6		#16 320-37345-A-6		
#17 IB (H2O)		#17 IB (H2O)		
#18 320-37345-A-7		#18 320-37345-A-7		
#19 320-37345-A-8		#19 320-37345-A-8		
#22 320-37764-A-1		#22 320-37764-A-1		
#23 CCVC		#23 CCVC		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

ICAL Review Checklist
Volatile Air GCMS

Method & Instrument ID: TO-15 ATMS7 **ICAL Date:** 3/14/18 TO-15 Mod 212906 38158
Chrom Worklist #: 55303 **Calibration ID:** REG **TALS Analysis Batch:** TO-15 212907 38159
Method (Check the applicable box) TO14 ICAL 212908 38160
☑ TO-14A / TO-15 Modified SCAN ☑ TO-15 Scan ☐ TO-15 ~~SIM~~ ☐ TO-15 SIM (Special Proj~~ect~~) TO15 PREC 212909 38161

Acceptance criteria are found in the applicable laboratory SOP or in TALS. If item is No, create an NCM.

Review Items	Level 1		NA	Level 2
General Criteria	Yes	No		
Standards analyzed within 24 hour tune time.	✓			✓
Chrom Peak Review calibration reports (F6) reviewed for error flags	✓			✓
Retention time correct for isomers/coeluters and all other analytes • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • Hexane / Vinyl acetate • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓			
Curve reviewed in Chrom for all analytes and all appropriate leves are included/excluded	✓			✓
Uploaded all calibration levels to TALS after any changes were made in Peak Review	✓			✓
Method for this worklist set as Most Recent Method	✓			
ICAL locked in Chrom and in TALS	✓			✓
ICV passes -See criteria below	✓			✓
Manual Integrations clearly identified, initialed, dated and reason given.	✓			✓
SIM Criteria				
PFTBA tune documentation present in Chrom & TALS and meets criteria			✓	
RSD < 30% (≤ 40% for up to 2 analytes.			✓	
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 5 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint.			✓	
ICV (Second Source) meets 70-130% criteria (60-140%) for up to 2 analytes,			✓	
Scan Criteria				
BFB Tune documentation present in Chrom & TALS and meets criteria	✓			✓
For GRO: WS-GRO report (F8) reviewed to ensure IS/Surrogate subtraction from area sum.			✓	
RSD < 30% (≤ 40% for up to 2 analytes, and ≤ 55% for up to 4 poor performers defined in SOP)	✓			✓
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 6 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint (for TO-15 / TO-15 Modified) or within 50-200% of ICAL midpoint (for TO-14A)	✓			✓
ICV (Second Source) meets 70-130% criteria (60-140% for up to 2 analytes, and 45-155% for up to 4 poor performers defined in SOP)	✓			✓

ICAL compounds outside RSD criteria (write compound and %RSD
None

Repeat Failure from Prev ICAL: Yes ☐ No ☐

ICV (second source) compounds outside RSD criteria (write compound and %D.
None

Yes ☐ No ☐

1st Level Reviewer: [signature] Date: 3/15/18
2nd Level Reviewer: [signature] Date: 3-16-18
Comments: ICV (Reg) - 212906-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

ICAL Review Checklist
Volatile Air GCMS

ID

Method & Instrument ID: TO-15 ATM57 **ICAL Date:** 3/15/18 TO-15 MOD 213119 3817
Chrom Worklist #: 55361 **Calibration ID:** ADD ~~83170~~ 3.16.18 **TALS Analysis Batch:** TO-15 213120 3814
Method (Check the applicable box) TO14ICAL 213121 3817
☑ TO-14A / TO-15 Modified SCAN ☑ TO-15 Scan ☑ ~~TO-15 SIM~~ PREC ☐ TO-15 SIM (Special Project) TO15 PREC 213122 3817

Acceptance criteria are found in the applicable laboratory SOP or in TALS. If item is No, create an NCM.

Review Items General Criteria	Level 1 Yes	Level 1 No	NA	Level 2
Standards analyzed within 24 hour tune time.	✓			✓
Chrom Peak Review calibration reports (F6) reviewed for error flags	✓			✓
Retention time correct for isomers/coeluters and all other analytes • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • Hexane / Vinyl acetate • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓			✓
Curve reviewed in Chrom for all analytes and all appropriate leves are included/excluded	✓			✓
Uploaded all calibration levels to TALS after any changes were made in Peak Review	✓			✓
Method for this worklist set as Most Recent Method	✓			
ICAL locked in Chrom and in TALS	✓			✓
ICV passes -See criteria below	✓			✓
Manual Integrations clearly identified, initialed, dated and reason given.	✓			✓
SIM Criteria				
PFTBA tune documentation present in Chrom & TALS and meets criteria			✓	
RSD < 30% (≤ 40% for up to 2 analytes.			✓	
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 5 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint.			✓	
ICV (Second Source) meets 70-130% criteria (60-140%) for up to 2 analytes,			✓	
Scan Criteria				
BFB Tune documentation present in Chrom & TALS and meets criteria	✓			✓
For GRO: WS-GRO report (F8) reviewed to ensure IS/Surrogate subtraction from area sum.			✓	
RSD < 30% (≤ 40% for up to 2 analytes, and ≤ 55% for up to 4 poor performers defined in SOP)	✓			✓
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 6 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint (for TO-15 / TO-15 Modified) or within 50-200% of ICAL midpoint (for TO-14A)	✓			✓
ICV (Second Source) meets 70-130% criteria (60-140% for up to 2 analytes, and 45-155% for up to 4 poor performers defined in SOP)	✓			✓

ICAL compounds outside RSD criteria (write compound and %RSD
None

Repeat Failure from Prev ICAL: Yes ☐ No ☐

ICV (second source) compounds outside RSD criteria (write compound and %D.
None

Yes ☐ No ☐

1st Level Reviewer: [signature] Date: 3/16/18
2nd Level Reviewer: [signature] Date: 3.16.18
Comments: ICV ADD - 13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Volatile Air Daily Hand-off Sheet

Date : 4/4/2018	Inst: MS7	WL#56203

	Initial
Remote Review Requested	
QC Pressures Checked	
Components Rebooted	
Can Valves Opened	

Comments
4/5/18

Daily QC

	Initial
BFB Check	
CCVIS Check	
CCV Other Check	
LCS/LCSD Check	
Sequence Verified	RG

Comments
4/5/18

Job#	Port#	Load Vol.	DF	LV	Init psi	Final psi
320-37247-B-1	5	73	1.00	73		
320-37247-B-3	6	72	1.00	72		
320-37247-B-5	7	72	1.00	72		
320-37345-A-1	8	386	1.00	386		
320-37345-A-2	9	396	1.00	396		
320-37345-A-3	10	388	1.00	388		4/5/18
320-37345-A-5	11	402	1.00	402		
320-37345-A-6	12	408	1.00	408		
IB (H2O)	13	250	1.00	250		
320-37345-A-7	14	409	1.00	409		
320-37345-A-8	15	392	1.00	392		
320-37345-A-10	4	331	1.00	331		
320-37345-A-11	4	394	1.00	394		
320-37336-A-1		750	0.333	750		
CCVC		125	1.00	125		

→ last run 4/5

- Boeing can cont,

4/5/18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

MS VOA AIR Data Review Checklist

Job(s): 440-207619, 320-37345, 320-37467

Instrument ID: ATMS7/WL 56260

TO-14A TO-14A MOD TO-15 TO-15 MOD TO-15 SIM

ICAL Batch: 212907

TALS Batch: 216406

Review Items	Level 1 Yes	Level 1 No	Level 2	NA
Initial Calibration				
1. Is ICAL locked in Chrom & TALS?	✓		✓	
2. Is ICV properly linked in TALS for L3/L4 jobs?	✓		✓	
Continuing Calibration				
1. BFB tune documentation meets criteria? The PFTBA Tune Documentation is attached in TALS (SIM methods only)?	✓		✓	
2. All Internal Standards within 50-200% of ICAL mid-point (TO-14A/TO-14A MOD) or 60-140% (TO-15/ TO-15 MOD?	✓		✓	
3. Does the %D meet:30%D for standard program, and 20%D for DoD?	✓		✓	
4. Isomeric pairs checked for correct peak assignment? • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • Hexane / Vinyl acetate • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓		✓	
Client Samples & QC Sample Results				
1. Was analysis done within holding times?	✓		✓	
2. Have initial/final volumes been changed to 50mL/250mL in Analyst Desktop for all TO14/TO15_Mod samples and QC (excluding BFB)?				✓
3. Are Chromatograms reviewed and spectra verified?	✓		✓	
4. Are positive results within calibration range?	✓		✓	
5. Are all positive results within RT windows?	✓		✓	
6. All target cpds in MB < RL (< ½ RL for DoD)? Requires NCM if "no."	✓		✓	
7. Are surrogate recoveries for MB and LCS/LCSD within control limits?	✓		✓	
8. Are target constituents in LCS/LCSD within control limits?	✓		✓	
9. Are all Chrom graphics uploaded?	✓		✓	
10. Are all QC samples properly linked in TALS?	✓		✓	
11. Do the Internal Standards meet criteria?	✓		✓	
12. Do results (e.g., dilutions) make sense?	✓		✓	
13. Have all flags been reviewed for appropriateness?	✓		✓	
14. All manual integrations appropriate and documented?	✓		✓	
15. Are non-conformances documented as NCMs?				✓
16. Are client sample surrogate failures flagged and NCM written?				✓
17. Dilutions due to target cpds? ____ Dilutions due to non-targets? ____				
18. Has QC checker been run?	✓		✓	

1st Level Reviewer / Date: 4/6/18 2nd Level Reviewer / Date: 4.6.18

Comments:

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 180405 Worklist Num: 56260
Instrument: ATMS7 Method: TO15_ATMS7N
Batch Directory: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b
Anaylysis Type: VOA Creator: Lee, Hoseung
Inj Volume: 5.00 Inj Vol Units: mL
Run Reagents:
VAMSIS20_00126, Amount Added: 50.00 , Units: mL

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
BFB	320-0056260-001	BFB	05-Apr-2018 11:07:30	MS7040501.D	1	1.0		air
CCVIS 20ppbv	320-0056260-002	CCVIS	05-Apr-2018 11:59:30	MS7040502.D	2	1.0		air
LCS 20ppbv	320-0056260-003	LCS	05-Apr-2018 12:52:30	MS7040503.D	2	1.0		air
LCSD 20ppbv	320-0056260-004	LCSD	05-Apr-2018 13:45:30	MS7040504.D	2	1.0		air
CCV ADD 20ppbv	320-0056260-021	CCVIS	05-Apr-2018 14:38:30	MS7040505.D	4	1.0		air
IB	320-0056260-005	EB	05-Apr-2018 15:33:30	MS7040506.D	16	1.0		air
MB	320-0056260-006	MB	05-Apr-2018 16:27:30	MS7040507.D	16	1.0		air
MB	320-0056260-022	MB	05-Apr-2018 17:27:30	MS7040508.D	16	1.0		air
320-37345-A-21	320-0056260-007	Client	05-Apr-2018 18:23:30	MS7040509.D	5	1.0	774776INF_0318	air
320-37345-A-10	320-0056260-008	Client	05-Apr-2018 19:18:30	MS7040510.D	6	1.0	776OA-1_0318	air
320-37345-A-11	320-0056260-009	Client	05-Apr-2018 20:15:30	MS7040511.D	7	1.0	785VMP-2_0318	air
320-37345-A-12	320-0056260-010	Client	05-Apr-2018 21:11:30	MS7040512.D	8	1.0	785VMP-2_0318-a	air
320-37345-A-13	320-0056260-011	Client	05-Apr-2018 22:08:30	MS7040513.D	9	1.0	785VMP-4_0318	air
320-37345-A-14	320-0056260-012	Client	05-Apr-2018 23:04:30	MS7040514.D	10	1.0	785VMP-5_0318	air
320-37345-A-16	320-0056260-013	Client	06-Apr-2018 00:01:30	MS7040515.D	11	1.0	786VMP-1_0318	air
320-37345-A-17	320-0056260-014	Client	06-Apr-2018 00:57:30	MS7040516.D	12	1.0	786VMP-2_0318	air
IB (H2O)	320-0056260-015	Client	06-Apr-2018 01:51:30	MS7040517.D	13	1.0		air
320-37345-A-18	320-0056260-016	Client	06-Apr-2018 02:48:30	MS7040518.D	14	1.0	786VMP-3_0318	air
320-37345-A-20	320-0056260-017	Client	06-Apr-2018 03:44:30	MS7040519.D	15	1.0	785OA-1_0318	air
320-37467-A-1	320-0056260-018	Client	06-Apr-2018 04:38:30	MS7040520.D	4	2.2	EFF-FAN1-032218	air
320-37467-A-2	320-0056260-019	Client	06-Apr-2018 05:36:30	MS7040521.D	4	1.0	EFF-FAN2-032218	air
440-207619-A-1	320-0056260-023	Client	06-Apr-2018 06:28:30	MS7040522.D	6	19.6	St-5-4	air
440-207619-A-2	320-0056260-024	Client	06-Apr-2018 07:25:30	MS7040523.D	7	1.0	PM-IA2	air
320-37345-A-14	320-0056260-025	Client	06-Apr-2018 08:21:30	MS7040524.D	8	1.0	785VMP-5_0318	air
320-37622-A-1	320-0056260-026	Client	06-Apr-2018 09:23:30	MS7040525.D	16	0.3	7808	air
CCVC	320-0056260-027	CCVC	06-Apr-2018 10:17:30	MS7040526.D	2	1.0		air

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 180405 Worklist Number: 56260
Instrument Name: ATMS7 Chrom Method: TO15_ATMS7N
Data Directory: \\ChromNA\Sacramento\ChromData\ATMS7\20180405-56260.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	MSA - TO15_MOD - ICAL Raw Batch: 216405	MSA - TO15 - ICAL Raw Batch: 216406	MSA - TO14 - ICAL Raw Batch: 216407	MSA - TO15 _PREC - ICAL Raw Batch: 216408
# 1 BFB	# 1 BFB	# 1 BFB	# 1 BFB	# 1 BFB
# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv	# 2 CCVIS 20ppbv
# 3 LCS 20ppbv	# 3 LCS 20ppbv	# 3 LCS 20ppbv	# 3 LCS 20ppbv	# 3 LCS 20ppbv
# 4 LCSD 20ppbv	# 4 LCSD 20ppbv	# 4 LCSD 20ppbv	# 4 LCSD 20ppbv	# 4 LCSD 20ppbv
#21 CCV ADD 20ppbv	#21 CCV ADD 20ppbv	#21 CCV ADD 20ppbv	#21 CCV ADD 20ppbv	#21 CCV ADD 20ppbv
# 5 IB	# 5 IB	# 5 IB	# 5 IB	# 5 IB
# 6 MB	# 6 MB	# 6 MB	# 6 MB	# 6 MB
#22 MB	#22 MB	#22 MB	#22 MB	#22 MB
# 7 320-37345-A-21		# 7 320-37345-A-21		
# 8 320-37345-A-10		# 8 320-37345-A-10		
# 9 320-37345-A-11		# 9 320-37345-A-11		
#10 320-37345-A-12		#10 320-37345-A-12		
#11 320-37345-A-13		#11 320-37345-A-13		
#12 320-37345-A-14		#12 320-37345-A-14		
#13 320-37345-A-16		#13 320-37345-A-16		
#14 320-37345-A-17		#14 320-37345-A-17		
#15 IB (H2O)		#15 IB (H2O)		
#16 320-37345-A-18		#16 320-37345-A-18		
#17 320-37345-A-20		#17 320-37345-A-20		
#18 320-37467-A-1		#18 320-37467-A-1		
#19 320-37467-A-2		#19 320-37467-A-2		
#23 440-207619-A-1		#23 440-207619-A-1		
#24 440-207619-A-2		#24 440-207619-A-2		
#25 320-37345-A-14		#25 320-37345-A-14		
#26 320-37622-A-1		#26 320-37622-A-1		
#27 CCVC		#27 CCVC		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

ICAL Review Checklist
Volatile Air GCMS

Method & Instrument ID: TO-15 ATMS7 ICAL Date: 3/14/18 TO-15 MOD 212906 38158
Chrom Worklist #: 55303 Calibration ID: REG TALS Analysis Batch: TO-15 212907 38159
Method (Check the applicable box) TO14 ICAL 212908 38160
☑ TO-14A / TO-15 Modified SCAN ☑ TO-15 Scan ☐ TO-15 SIM ☐ TO-15 SIM (Special Project) TO15 PREC 212909 38161

Acceptance criteria are found in the applicable laboratory SOP or in TALS. If item is No, create an NCM.

Review Items	Level 1 Yes	Level 1 No	NA	Level 2
General Criteria				
Standards analyzed within 24 hour tune time.	✓			✓
Chrom Peak Review calibration reports (F6) reviewed for error flags	✓			✓
Retention time correct for isomers/coeluters and all other analytes • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • Hexane / Vinyl acetate • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓			✓
Curve reviewed in Chrom for all analytes and all appropriate leves are included/excluded	✓			✓
Uploaded all calibration levels to TALS after any changes were made in Peak Review	✓			✓
Method for this worklist set as Most Recent Method	✓			
ICAL locked in Chrom and in TALS	✓			✓
ICV passes -See criteria below	✓			✓
Manual Integrations clearly identified, initialed, dated and reason given.	✓			✓
SIM Criteria				
PFTBA tune documentation present in Chrom & TALS and meets criteria			✓	
RSD < 30% (≤ 40% for up to 2 analytes.			✓	
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 5 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint.			✓	
ICV (Second Source) meets 70-130% criteria (60-140%) for up to 2 analytes,			✓	
Scan Criteria				
BFB Tune documentation present in Chrom & TALS and meets criteria	✓			✓
For GRO: WS-GRO report (F8) reviewed to ensure IS/Surrogate subtraction from area sum.			✓	
RSD < 30% (≤ 40% for up to 2 analytes, and ≤ 55% for up to 4 poor performers defined in SOP)	✓			✓
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 6 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint (for TO-15 / TO-15 Modified) or within 50-200% of ICAL midpoint (for TO-14A)	✓			✓
ICV (Second Source) meets 70-130% criteria (60-140% for up to 2 analytes, and 45-155% for up to 4 poor performers defined in SOP)	✓			✓

ICAL compounds outside RSD criteria (write compound and %RSD
None

Repeat Failure from Prev ICAL: Yes ☐ No ☐

ICV (second source) compounds outside RSD criteria (write compound and %D.
None

Yes ☐ No ☐

1st Level Reviewer: [signature] Date: 3/15/18
2nd Level Reviewer: [signature] Date: 3-16-18
Comments: ICV (Reg) - 212906-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

ICAL Review Checklist
Volatile Air GCMS

ID

Method & Instrument ID: TO-15 ATM57 ICAL Date: 3/15/18 TO15 MOD 213119 3811
Chrom Worklist #: 553621 Calibration ID: ADD 3/16/18 TALS Analysis Batch: TO-15 213120 3812
Method (Check the applicable box) TO14ICAL 213121 3813
☑ TO-14A / TO-15 Modified SCAN ☑ TO-15 Scan ☑ TO-15 ~~SIM~~ PREC ☐ TO-15 SIM (Special Project) TO15 PREC 213122 3814

Acceptance criteria are found in the applicable laboratory SOP or in TALS. If item is No, create an NCM.

Review Items	Level 1		NA	Level 2
General Criteria	Yes	No		
Standards analyzed within 24 hour tune time.	✓			✓
Chrom Peak Review calibration reports (F6) reviewed for error flags	✓			✓
Retention time correct for isomers/coeluters and all other analytes • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • Hexane / Vinyl acetate • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓			✓
Curve reviewed in Chrom for all analytes and all appropriate leves are included/excluded	✓			✓
Uploaded all calibration levels to TALS after any changes were made in Peak Review	✓			✓
Method for this worklist set as Most Recent Method	✓			
ICAL locked in Chrom and in TALS	✓			✓
ICV passes -See criteria below	✓			✓
Manual Integrations clearly identified, initialed, dated and reason given.	✓			✓
SIM Criteria				
PFTBA tune documentation present in Chrom & TALS and meets criteria			✓	
RSD < 30% (≤ 40% for up to 2 analytes.			✓	
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 5 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint.			✓	
ICV (Second Source) meets 70-130% criteria (60-140%) for up to 2 analytes,			✓	
Scan Criteria				
BFB Tune documentation present in Chrom & TALS and meets criteria	✓			✓
For GRO: WS-GRO report (F8) reviewed to ensure IS/Surrogate subtraction from area sum.			✓	
RSD < 30% (≤ 40% for up to 2 analytes, and ≤ 55% for up to 4 poor performers defined in SOP)	✓			✓
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 6 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint (for TO-15 / TO-15 Modified) or within 50-200% of ICAL midpoint (for TO-14A)	✓			✓
ICV (Second Source) meets 70-130% criteria (60-140% for up to 2 analytes, and 45-155% for up to 4 poor performers defined in SOP)	✓			✓

ICAL compounds outside RSD criteria (write compound and %RSD
None

Repeat Failure from Prev ICAL: Yes ☐ No ☐

ICV (second source) compounds outside RSD criteria (write compound and %D.
None

Yes ☐ No ☐

1st Level Reviewer: [signature] Date: 3/16/18
2nd Level Reviewer: [signature] Date: 3.16.18
Comments: ICV ADD - 13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Volatile Air Daily Hand-off Sheet

Date : 4/5/2018	Inst: MS7	WL#56260

	Initial
Remote Review Requested	MS
QC Pressures Checked	MS
Components Rebooted	MS
Can Valves Opened	MS

Comments

4/6/18 MS

Daily QC

	Initial
BFB Check 11:07A	MS
CCVIS Check	MS
CCV Other Check	MS
LCS/LCSD Check	MS
Sequence Verified	MS

Comments

4/6/18 MS

Job#	Port#	Load Vol.	DF	LV	Init psi	Final psi
320-37345-A-21	5	328	1.00	328		
320-37345-A-10	6	331	1.00	331		
320-37345-A-11	7	394	1.00	394		
320-37345-A-12	8	401	1.00	401		
320-37345-A-13	9	390	1.00	390		
320-37345-A-14 IS ↓	10	394	1.00	394		
320-37345-A-16	11	398	1.00	398		
320-37345-A-17	12	381	1.00	381		
IB (H2O)	13	250	1.00	250		
320-37345-A-18	14	413	1.00	413		
320-37345-A-20	15	376	1.00	376		
320-37467-A-1	4	150	2.20	150		
320-37467-A-2 O/R	4	Acetone (DW) ~~533~~ 340	1.00	~~533~~ 340	4/5/18 MS	2nd pressurized
440-207619-A-1	6	blank 20	9.6	20		
A-2	7	407 ~~205~~	~~1.0~~ 1.99	~~205~~	407 ml	
320-37622-A-1	16	750	1.0	750	Bottle	CAN CONT
320-37736-A-1	16	↓	↓	↓	↓	later
320-37345-A-14	10	394	1.0	394 ml		
CCVC		125	1.00	125		

Use 135 mL → MS7

Method TO15 SIM DOD

Volatile Organic Compounds (GC/MS) by Method TO15 SIM DOD

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-Volatil ID: 0.32(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
	MB 320-217160/7	100	97	90
	LCS 320-217160/3	98	97	103
	LCSD 320-217160/4	97	98	103

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II TO-15 SIM

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 18041003.D

Lab ID: LCS 320-217160/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	6.55	6.39	98	68-125	
1,1-Dichloroethene	4.76	4.32	91	61-133	
Benzene	3.83	3.37	88	69-119	
Carbon tetrachloride	7.55	7.31	97	68-132	
cis-1,2-Dichloroethene	4.76	4.41	93	70-121	
Methylene Chloride	4.17	3.81	91	62-115	
Tetrachloroethene	8.14	7.26	89	66-124	
Trichloroethene	6.45	5.71	88	71-123	
Vinyl chloride	3.07	2.65	86	64-127	
1,4-Dioxane	4.32	3.83	89	71-122	

Column to be used to flag recovery and RPD values

FORM III TO-15 SIM

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 18041004.D

Lab ID: LCSD 320-217160/4 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCSD CONCENTRATION (ug/m3)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	6.55	6.51	99	2	25	68-125	
1,1-Dichloroethene	4.76	4.45	94	3	25	61-133	
Benzene	3.83	3.44	90	2	25	69-119	
Carbon tetrachloride	7.55	7.46	99	2	25	68-132	
cis-1,2-Dichloroethene	4.76	4.51	95	2	25	70-121	
Methylene Chloride	4.17	3.88	93	2	25	62-115	
Tetrachloroethene	8.14	7.36	90	1	25	66-124	
Trichloroethene	6.45	5.81	90	2	25	71-123	
Vinyl chloride	3.07	2.72	89	3	25	64-127	
1,4-Dioxane	4.32	3.67	85	4	25	71-122	

Column to be used to flag recovery and RPD values

FORM III TO-15 SIM

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab File ID: 18041007.D Lab Sample ID: MB 320-217160/7

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

Instrument ID: ATMS5 Date Analyzed: 04/10/2018 14:17

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-217160/3	18041003.D	04/10/2018 10:52
	LCSD 320-217160/4	18041004.D	04/10/2018 11:41
774IA-1_0318	320-37345-4	18041014.D	04/10/2018 21:04
776IA-1_0318	320-37345-9	18041015.D	04/10/2018 22:01
785IA-1_0318	320-37345-15	18041016.D	04/10/2018 22:56
786IA-1_0318	320-37345-19	18041017.D	04/10/2018 23:52

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Sample No.: ICIS 320-216538/9 Date Analyzed: 04/05/2018 20:47

Instrument ID: ATMS5 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS5040509.D Heated Purge: (Y/N) N

Calibration ID: 38477

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		49515	11.37	219082	13.53	190424	20.18
UPPER LIMIT		69321	11.70	306715	13.86	266594	20.51
LOWER LIMIT		29709	11.04	131449	13.20	114254	19.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 320-217160/2		52113	11.37	238445	13.53	202218	20.19

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Sample No.: CCVIS 320-217160/2 Date Analyzed: 04/10/2018 10:02

Instrument ID: ATMS5 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): 18041002.D Heated Purge: (Y/N) N

Calibration ID: 38477

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		52113	11.37	238445	13.53	202218	20.19
UPPER LIMIT		72958	11.70	333823	13.86	283105	20.52
LOWER LIMIT		31268	11.04	143067	13.20	121331	19.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 320-217160/3		52585	11.36	236449	13.52	199972	20.18
LCSD 320-217160/4		52300	11.36	235208	13.52	200757	20.18
MB 320-217160/7		49614	11.36	219060	13.52	174107	20.18
320-37345-4	774IA-1_0318	63514	11.38	281533	13.53	210570	20.19
320-37345-9	776IA-1_0318	57623	11.36	254214	13.53	210303	20.19
320-37345-15	785IA-1_0318	55089	11.37	241132	13.53	178686	20.19
320-37345-19	786IA-1_0318	54549	11.36	240163	13.52	180264	20.18
CCV 320-217160/22		49352	11.36	218389	13.53	185689	20.18

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 774IA-1_0318 Lab Sample ID: 320-37345-4

Matrix: Air Lab File ID: 18041014.D

Analysis Method: TO-15 SIM Date Collected: 03/21/2018 16:00

Sample wt/vol: 845(mL) Date Analyzed: 04/10/2018 21:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.055	U M	0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	0.040	U	0.079	0.040	0.020
71-43-2	Benzene	0.44		0.16	0.064	0.032
56-23-5	Carbon tetrachloride	0.41		0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	0.071	J	0.079	0.040	0.020
75-09-2	Methylene Chloride	0.37	J	0.69	0.35	0.17
127-18-4	Tetrachloroethene	0.080	J	0.14	0.14	0.068
79-01-6	Trichloroethene	0.11		0.11	0.054	0.027
75-01-4	Vinyl chloride	0.026	U	0.051	0.026	0.013

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041014.D
Lims ID: 320-37345-A-4
Client ID: 774IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 21:04:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-4
Misc. Info.: 845
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:51:14 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:49:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.378	11.370	0.008	100	63514	2.00	
* 2 1,4-Difluorobenzene	114	13.532	13.530	0.002	100	281533	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.189	-0.002	100	210570	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.559	12.552	0.007	84	121183	1.86	
$ 5 Toluene-d8 (Surr)	100	16.909	16.909	0.000	100	164129	1.92	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.751	-0.001	100	117540	1.74	
7 Propene	41	3.778	3.755	0.023	86	37214	0.4021	
8 Dichlorodifluoromethane	85	3.837	3.822	0.015	99	55428	0.4088	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.060	4.038	0.022	98	1153	0.0155	
10 Chloromethane	50	4.209	4.187	0.022	100	45760	0.5022	
13 Bromomethane	94	5.206	5.184	0.022	96	250	0.006989	
15 Trichlorofluoromethane	101	5.977	5.962	0.015	100	911453	7.93	E
16 Isopropyl alcohol	45	6.555	6.541	0.014	0	126169	0.5158	
17 Acrolein	56	6.608	6.593	0.015	80	6459	0.1840	
18 Acetone	43	6.749	6.742	0.007	99	423917	3.23	
19 1,1,2-Trichloro-1,2,2-trif	101	6.957	6.950	0.007	100	6208	0.0624	
22 Methylene Chloride	49	8.002	7.989	0.013	98	13266	0.1055	
26 Hexane	41	9.178	9.165	0.013	97	27132	0.2598	
29 2-Butanone (MEK)	72	10.385	10.369	0.016	100	6578	0.3259	
30 cis-1,2-Dichloroethene	96	10.775	10.775	0.000	63	780	0.0179	
31 Ethyl acetate	43	10.834	10.820	0.014	100	8525	0.0396	
32 Chloroform	83	11.125	11.125	0.000	100	3598	0.0377	
33 Tetrahydrofuran	42	11.593	11.593	0.044	99	2047	0.0166	M
35 Cyclohexane	84	12.256	12.256	0.000	55	721	0.0131	
36 Carbon tetrachloride	117	12.635	12.628	0.007	95	6805	0.0657	
37 1,2-Dichloroethane	62	12.749	12.749	0.000	92	1351	0.0143	
38 Benzene	78	12.894	12.886	0.008	99	19719	0.1372	
39 n-Heptane	43	13.130	13.130	0.008	95	6144	0.0301	M
40 Trichloroethene	130	14.280	14.281	0.000	100	1213	0.0204	
41 1,2-Dichloropropane	76	14.572	14.573	-0.001	99	100	0.004123	
44 4-Methyl-2-pentanone (MIBK	43	15.944	15.917	0.027	99	2120	0.008455	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
46 Toluene	91	17.080	17.080	0.000	100	21848	0.1319	
49 2-Hexanone	58	17.873	17.849	0.024	43	1929	0.0321	
50 Tetrachloroethene	166	18.600	18.602	-0.002	100	842	0.0118	
53 Chlorobenzene	112	20.270	20.266	0.004	51	592	0.005549	
55 Ethylbenzene	91	20.468	20.464	0.004	100	6981	0.0383	
56 m-Xylene & p-Xylene	91	20.655	20.651	0.004	100	11594	0.0843	
57 o-Xylene	91	21.549	21.545	0.004	99	3638	0.0268	
58 Styrene	104	21.575	21.576	-0.001	96	2012	0.0242	
63 1,2,4-Trimethylbenzene	120	24.320	24.317	0.003	97	1497	0.0250	
70 Naphthalene	128	29.704	29.700	0.004	100	1129	0.0242	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

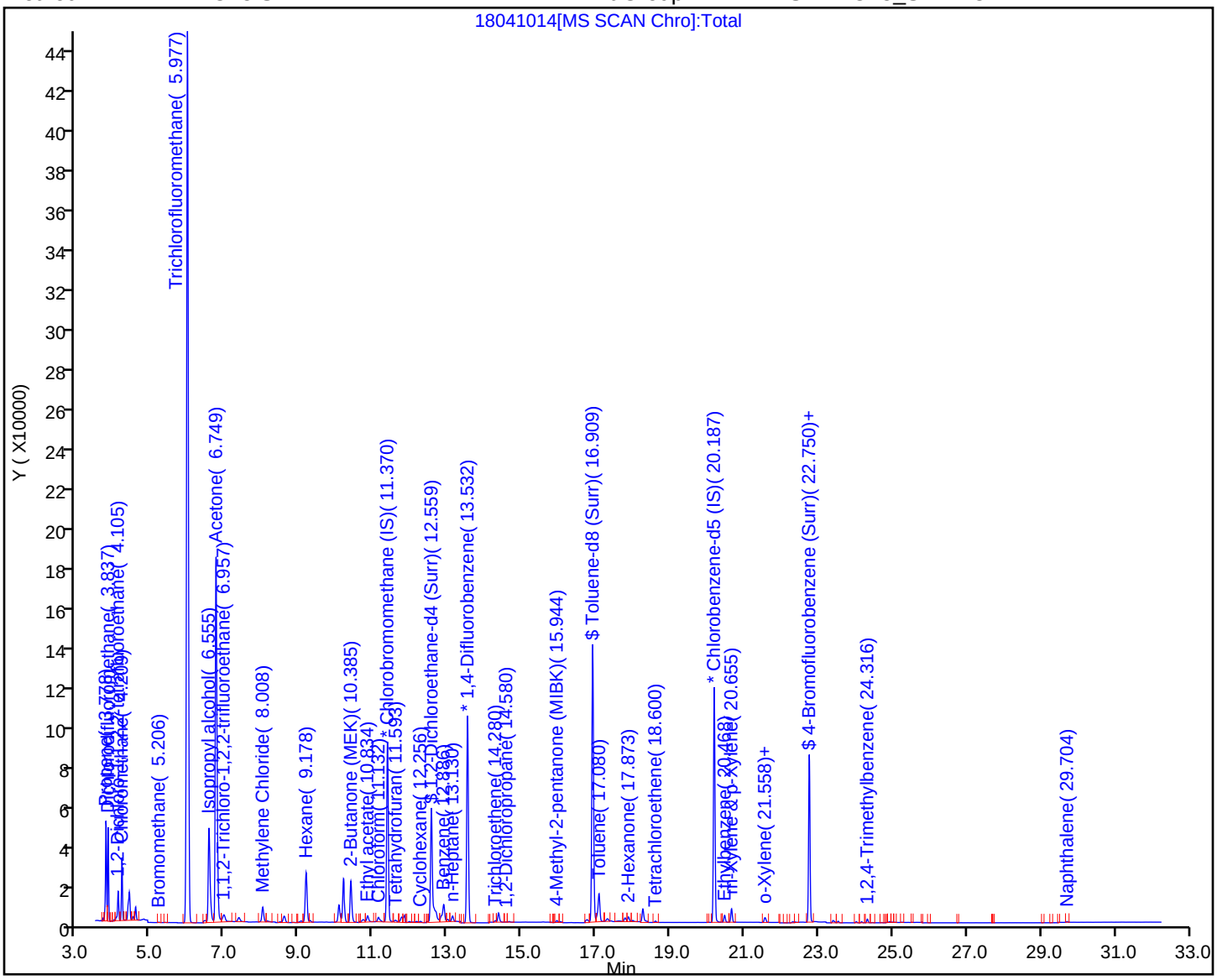
VAMSIS20_00140 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 11-Apr-2018 17:51:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041014.D

Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041014.D
Lims ID: 320-37345-A-4
Client ID: 774IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 21:04:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-4
Misc. Info.: 845
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:51:14 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:49:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	1.86	92.98
$ 5 Toluene-d8 (Surr)	2.00	1.92	95.83
$ 6 4-Bromofluorobenzene (Surr)	2.00	1.74	86.76

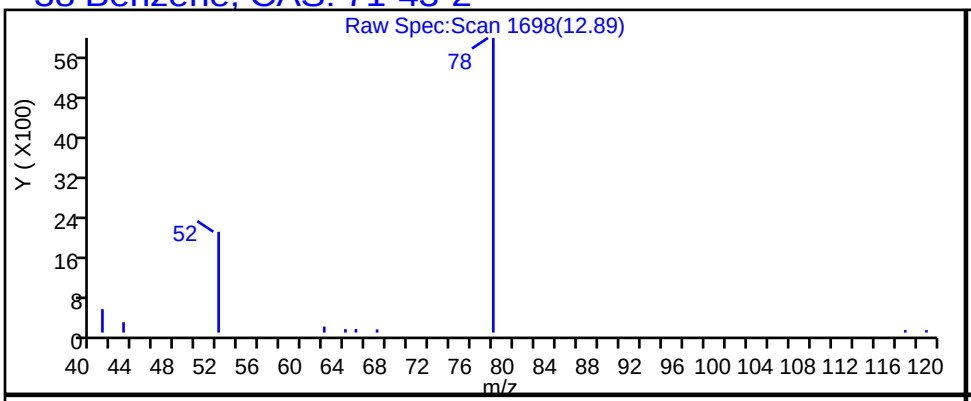
Report Date: 11-Apr-2018 17:51:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

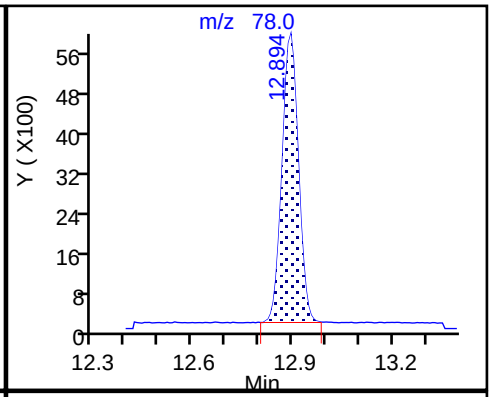
TestAmerica Sacramento

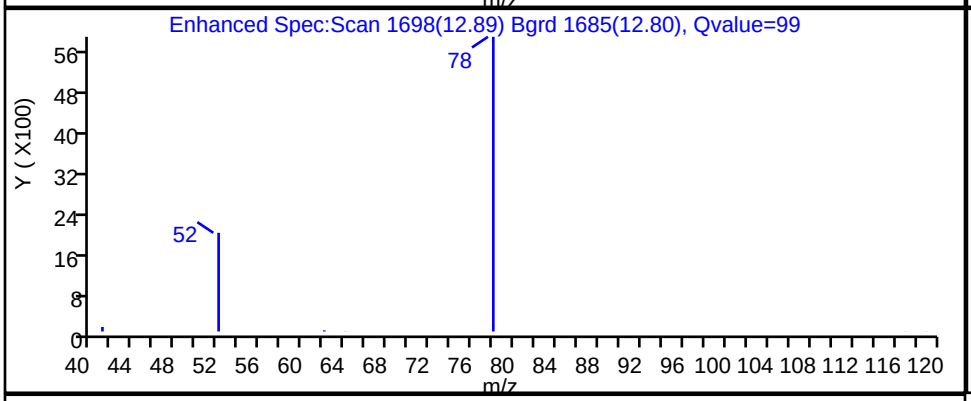
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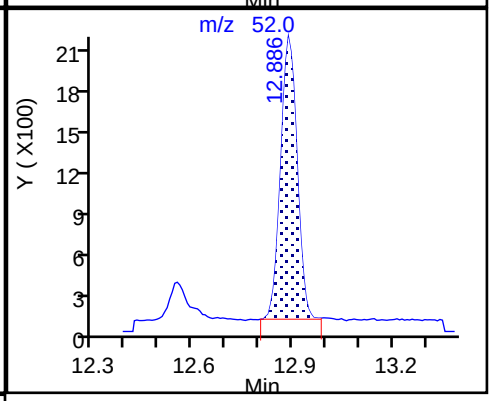
Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

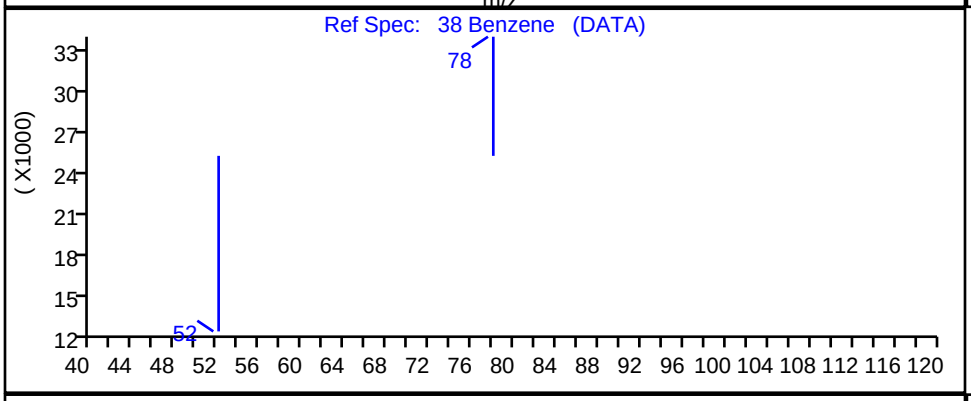
38 Benzene, CAS: 71-43-2

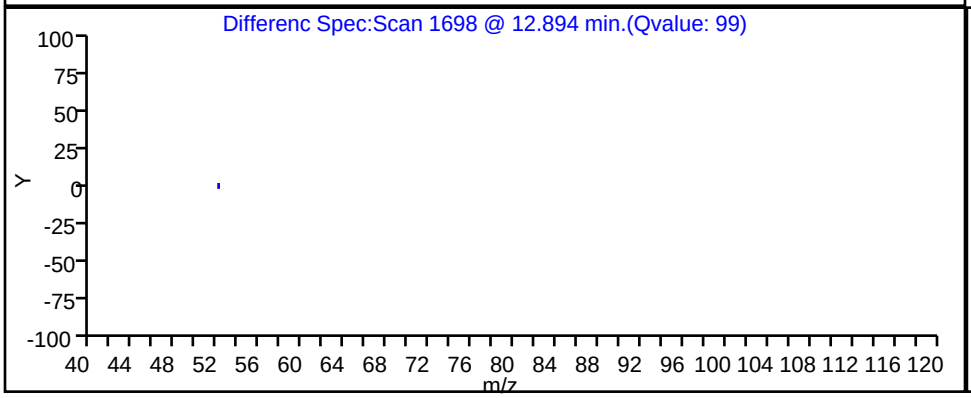


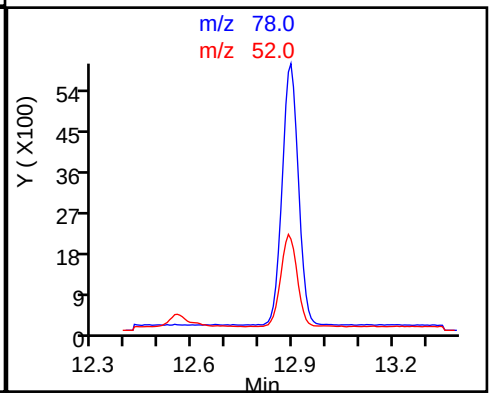












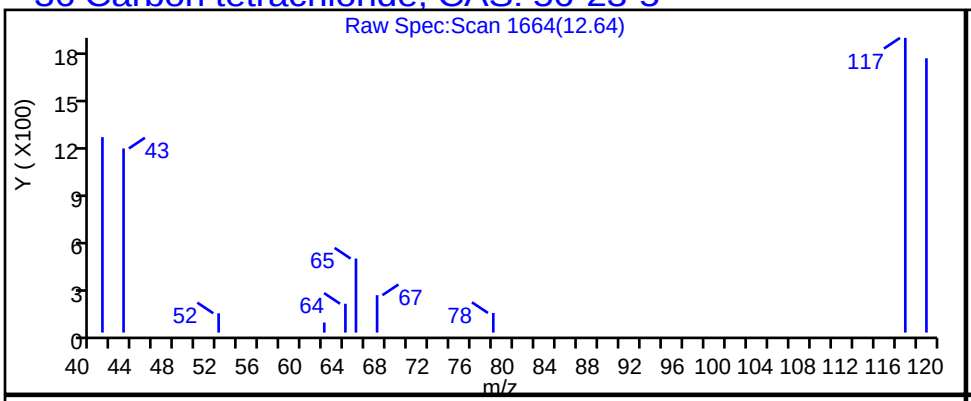
Report Date: 11-Apr-2018 17:51:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

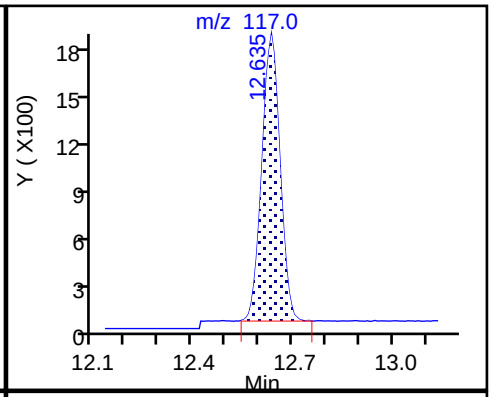
TestAmerica Sacramento

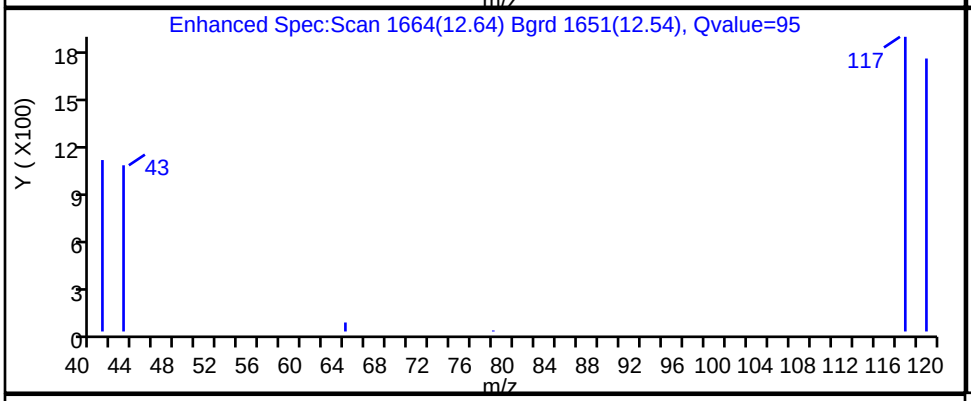
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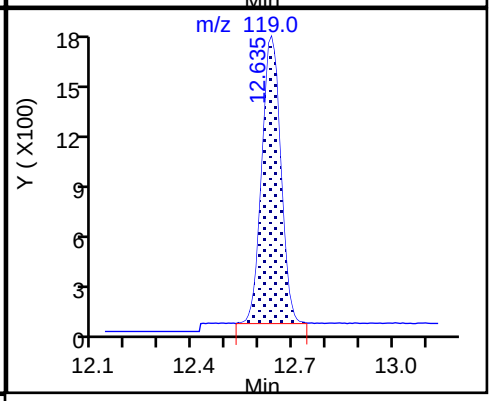
Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

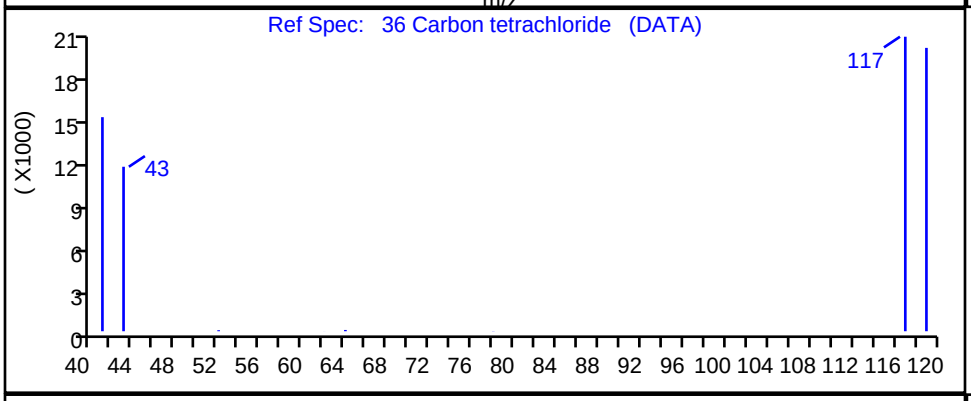
36 Carbon tetrachloride, CAS: 56-23-5

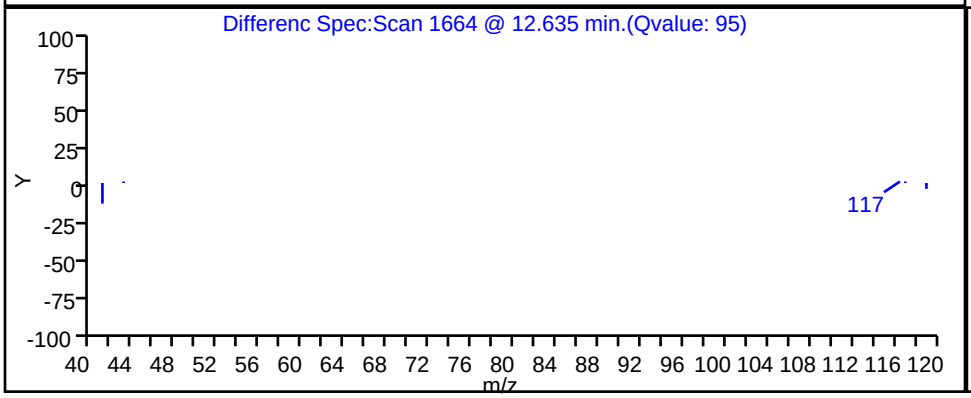


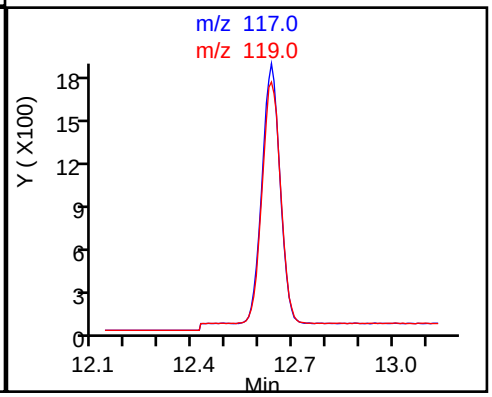












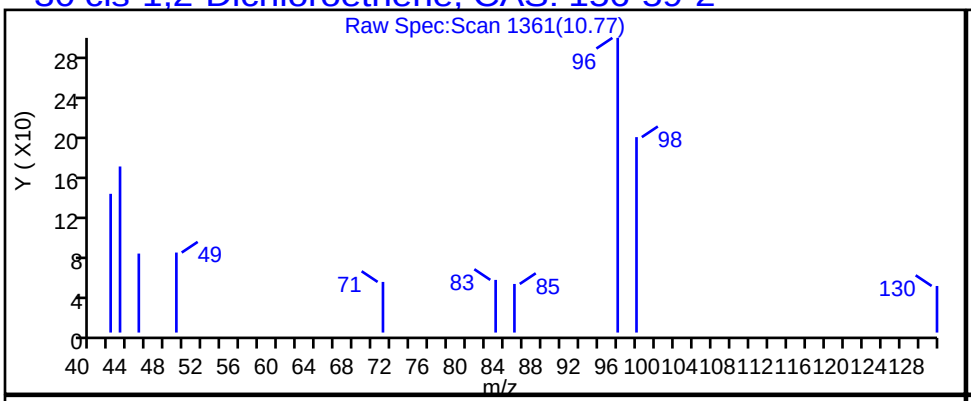
Report Date: 11-Apr-2018 17:51:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

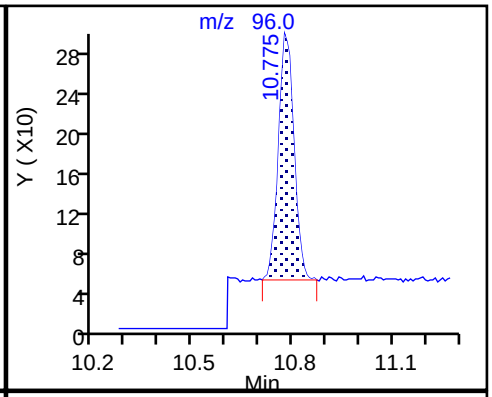
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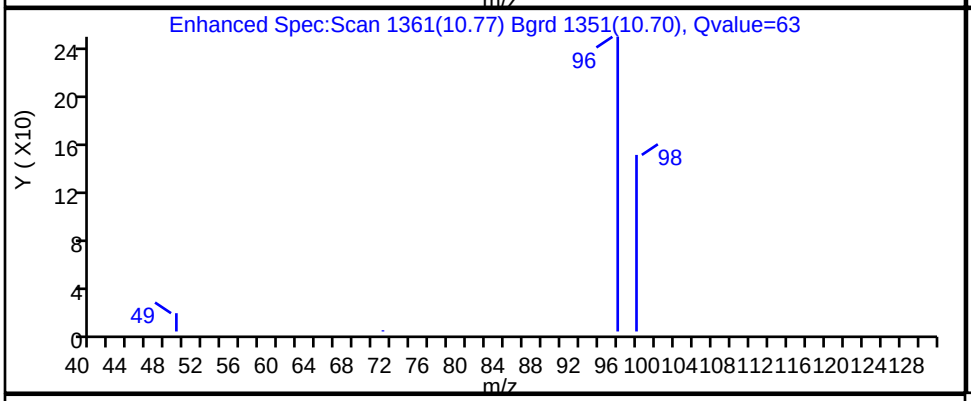
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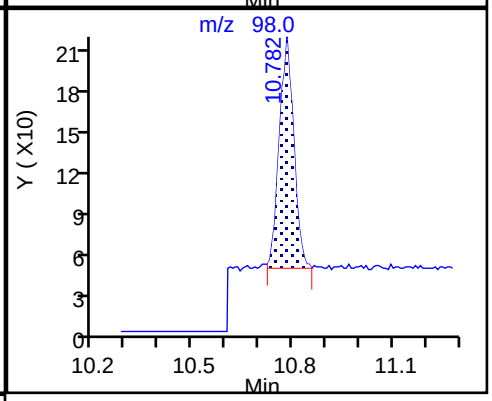
Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

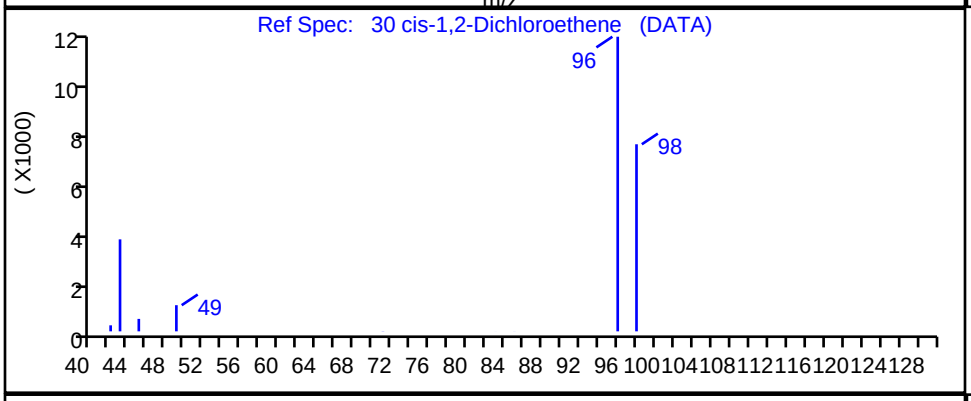
30 cis-1,2-Dichloroethene, CAS: 156-59-2

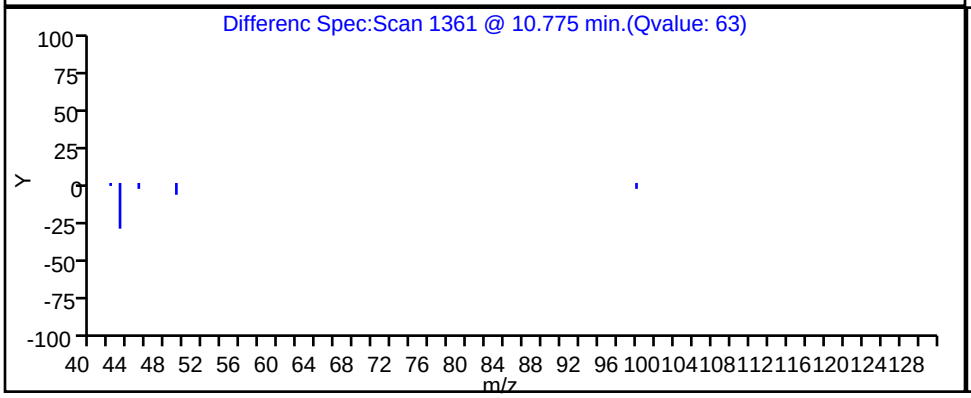


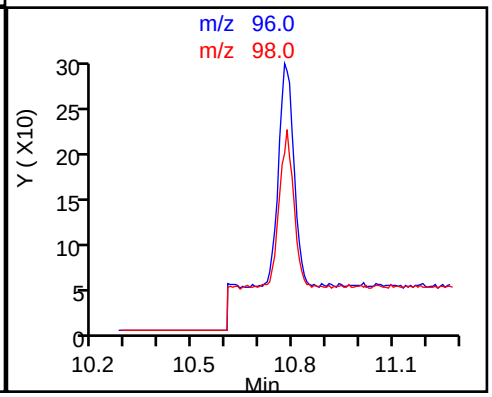












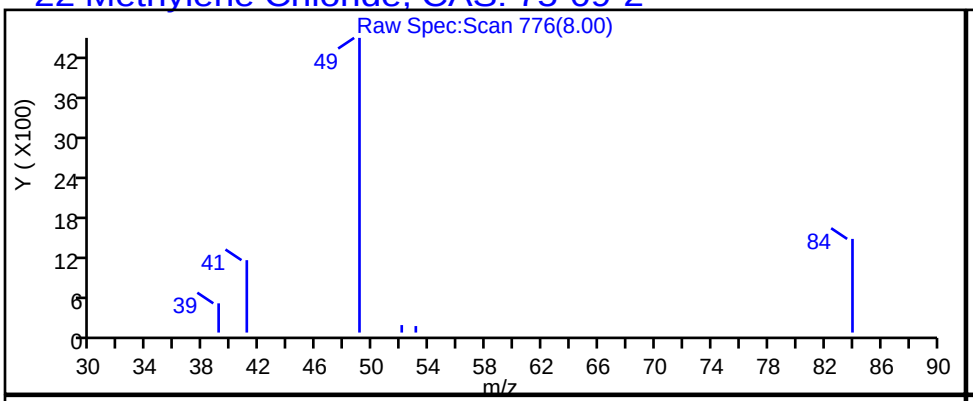
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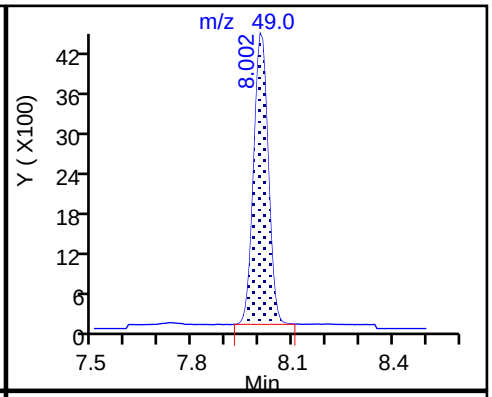
TestAmerica Sacramento

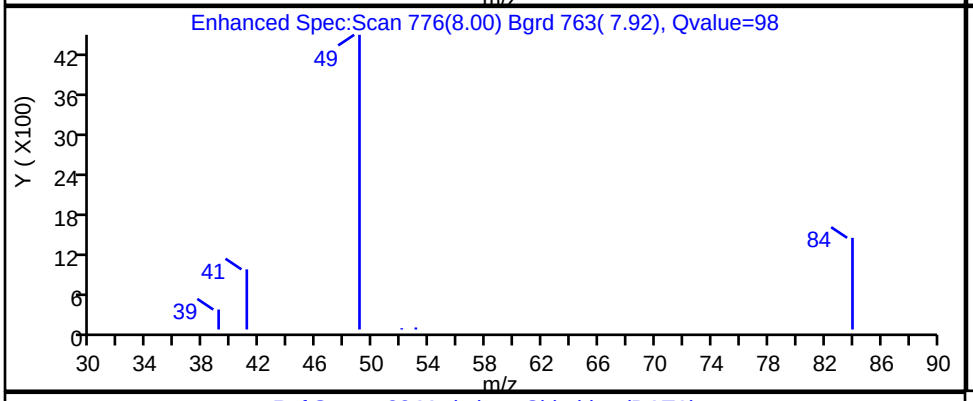
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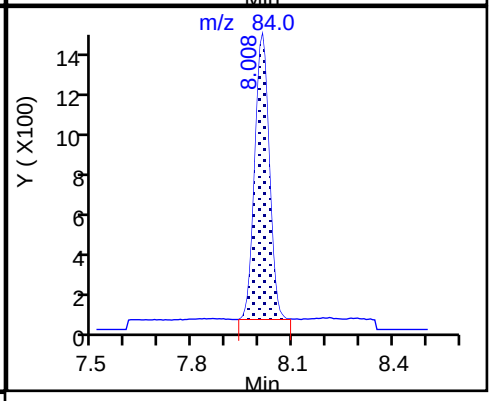
Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4
Client ID:	774IA-1_0318		
Operator ID:	SV	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

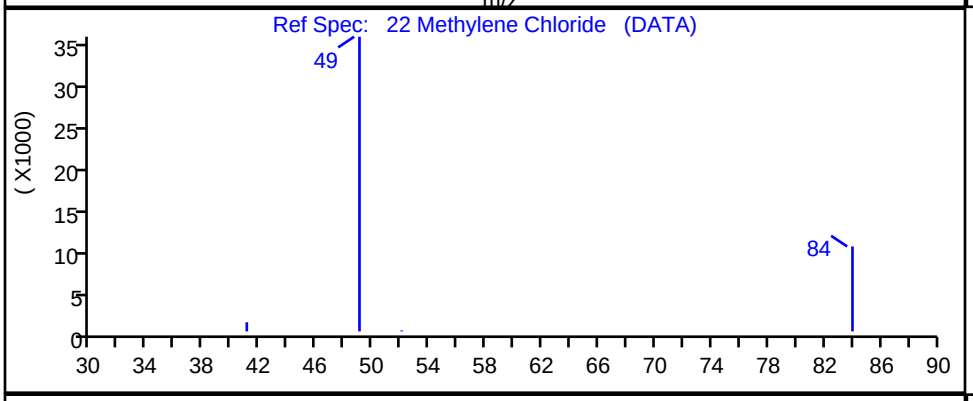
22 Methylene Chloride, CAS: 75-09-2

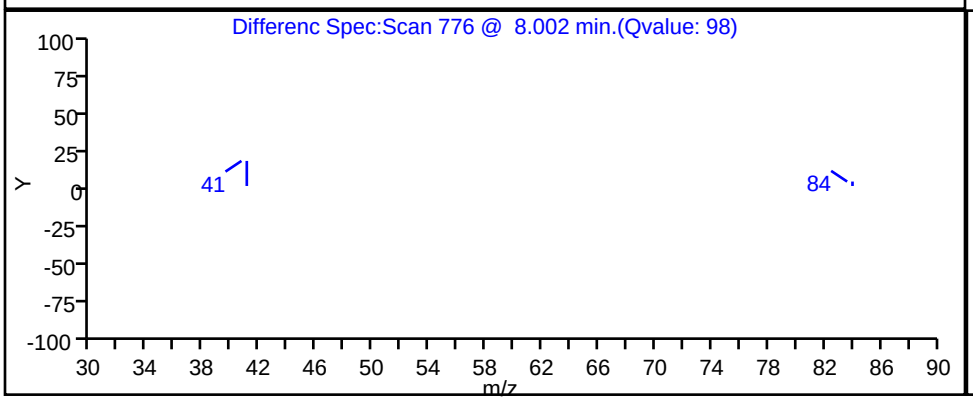


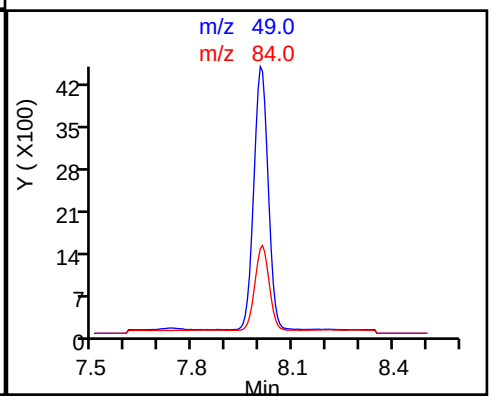












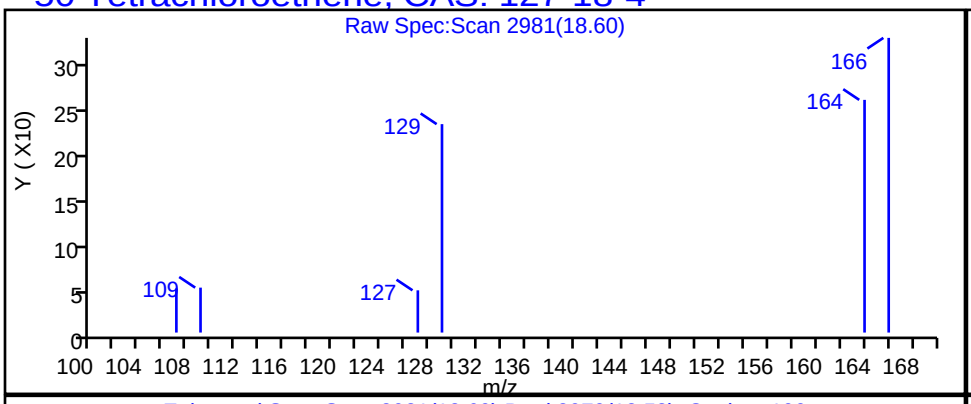
Report Date: 11-Apr-2018 17:51:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

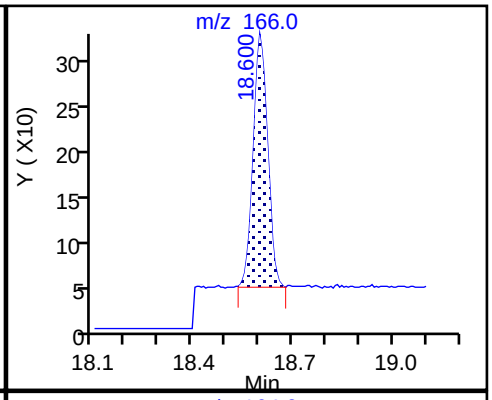
TestAmerica Sacramento

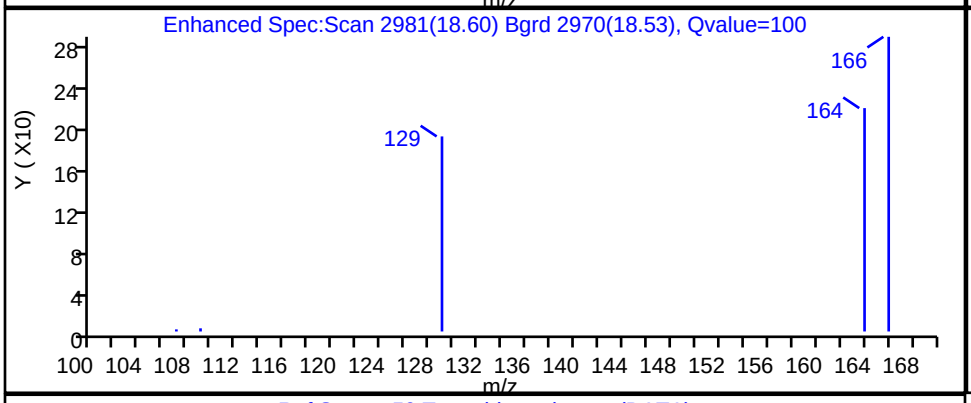
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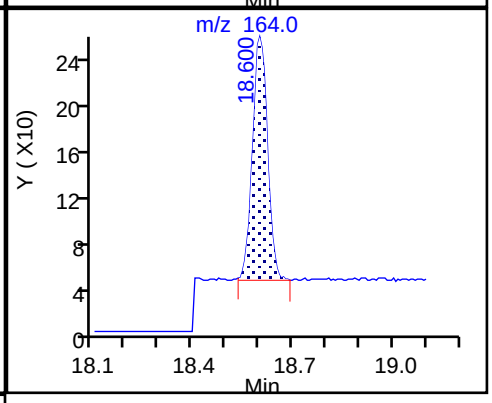
Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

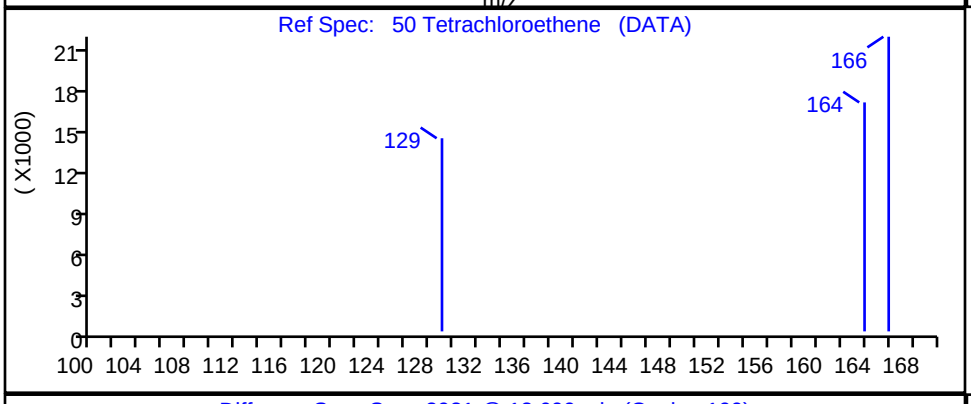
50 Tetrachloroethene, CAS: 127-18-4

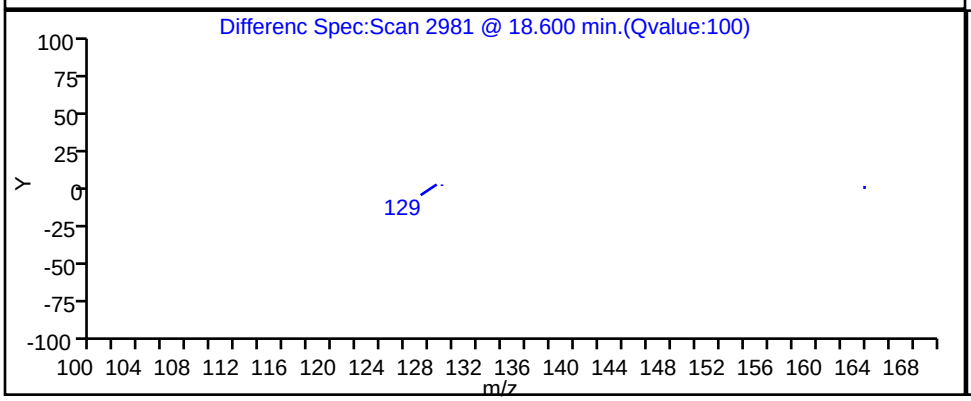


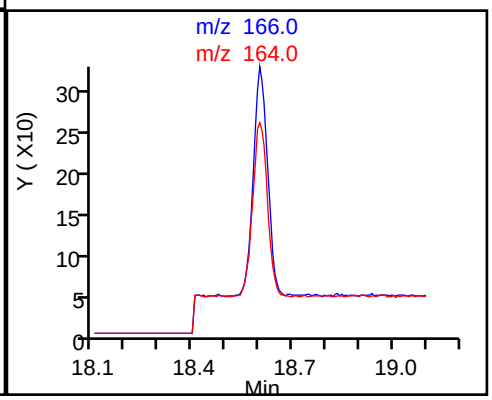












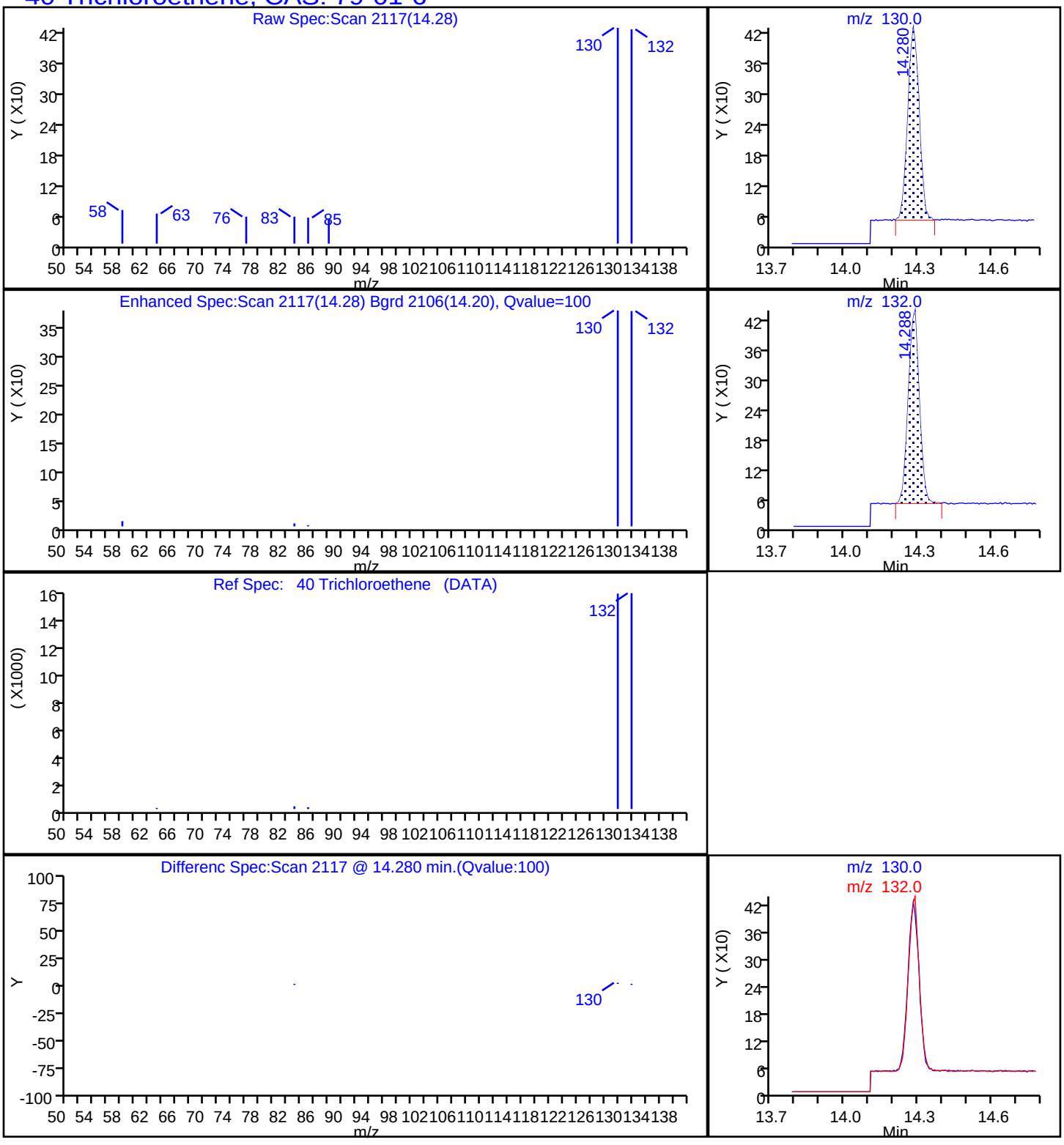
Report Date: 11-Apr-2018 17:51:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041014.D

Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

40 Trichloroethene, CAS: 79-01-6



User Disabled Compound Report

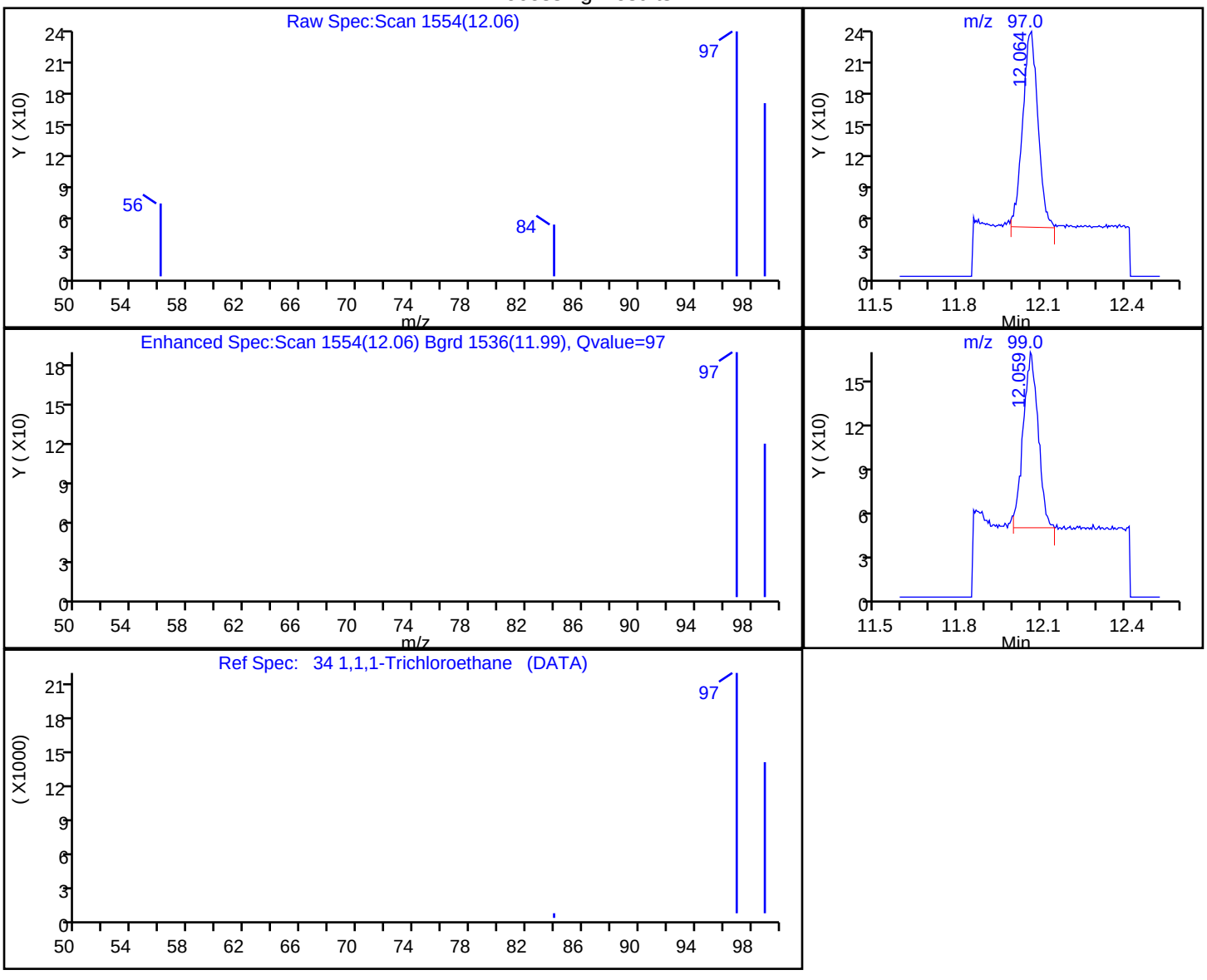
TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041014.D

Injection Date:	10-Apr-2018 21:04:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-4	Lab Sample ID:	320-37345-4		
Client ID:	774IA-1_0318				
Operator ID:	SV	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

34 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
12.06	97.00	711	-0.001228
12.06	99.00	446	

Reviewer: phanthasena, 11-Apr-2018 17:49:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 776IA-1_0318 Lab Sample ID: 320-37345-9

Matrix: Air Lab File ID: 18041015.D

Analysis Method: TO-15 SIM Date Collected: 03/21/2018 15:35

Sample wt/vol: 790(mL) Date Analyzed: 04/10/2018 22:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.055	U	0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	0.040	U	0.079	0.040	0.020
71-43-2	Benzene	0.48		0.16	0.064	0.032
56-23-5	Carbon tetrachloride	0.42		0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	1.2		0.079	0.040	0.020
75-09-2	Methylene Chloride	0.38	J	0.69	0.35	0.17
127-18-4	Tetrachloroethene	0.17		0.14	0.14	0.068
79-01-6	Trichloroethene	0.13		0.11	0.054	0.027
75-01-4	Vinyl chloride	0.026	U	0.051	0.026	0.013
123-91-1	1,4-Dioxane	0.062	J	0.36	0.072	0.036

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041015.D
Lims ID: 320-37345-A-9
Client ID: 776IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 22:01:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-9
Misc. Info.: 790
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:52:48 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:52:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	100	57623	2.00	
* 2 1,4-Difluorobenzene	114	13.526	13.530	-0.004	100	254214	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.189	-0.002	100	210303	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	84	112802	1.92	
$ 5 Toluene-d8 (Surr)	100	16.901	16.909	-0.008	100	152219	1.97	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.751	-0.001	99	137232	2.03	
7 Propene	41	3.763	3.755	0.008	48	75503	0.8992	
8 Dichlorodifluoromethane	85	3.815	3.822	-0.007	74	54342	0.4418	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	98	1049	0.0155	
10 Chloromethane	50	4.187	4.187	0.000	100	53248	0.6441	
13 Bromomethane	94	5.189	5.184	0.005	100	904	0.0279	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	22183	0.2126	
16 Isopropyl alcohol	45	6.526	6.541	-0.015	0	1192625	5.37	E
17 Acrolein	56	6.585	6.593	-0.008	78	12753	0.4004	
18 Acetone	43	6.719	6.742	-0.023	100	1839383	15.6	E
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	98	5659	0.0628	
21 Acetonitrile	41	7.807	7.807	-0.019	30	370	0.003036	7M
22 Methylene Chloride	49	7.989	7.989	0.000	99	12407	0.1087	
26 Hexane	41	9.158	9.165	-0.007	97	6673	0.0704	
29 2-Butanone (MEK)	72	10.365	10.369	-0.005	100	12797	0.6987	
30 cis-1,2-Dichloroethene	96	10.768	10.775	-0.007	97	11945	0.3024	
31 Ethyl acetate	43	10.812	10.820	-0.008	100	76400	0.3908	
32 Chloroform	83	11.117	11.125	-0.008	100	9243	0.1067	
33 Tetrahydrofuran	42	11.571	11.571	0.022	100	2827	0.0253	M
35 Cyclohexane	84	12.256	12.256	0.000	69	2250	0.0450	
36 Carbon tetrachloride	117	12.620	12.628	-0.008	34	6192	0.0663	
37 1,2-Dichloroethane	62	12.742	12.749	-0.007	100	4447	0.0520	
38 Benzene	78	12.886	12.886	0.000	100	19312	0.1488	
39 n-Heptane	43	13.122	13.130	0.000	96	15632	0.0848	
40 Trichloroethene	130	14.273	14.281	-0.007	99	1340	0.0249	
41 1,2-Dichloropropane	76	14.565	14.573	-0.008	100	135	0.006164	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
43 1,4-Dioxane	88	15.062	15.050	0.015	46	435	0.0173	
44 4-Methyl-2-pentanone (MIBK	43	15.920	15.917	0.003	100	79069	0.3492	
46 Toluene	91	17.072	17.080	-0.008	100	40302	0.2694	
49 2-Hexanone	58	17.857	17.849	0.008	5	4141	0.0691	
50 Tetrachloroethene	166	18.600	18.602	-0.002	100	1784	0.0250	
53 Chlorobenzene	112	20.270	20.266	0.004	51	534	0.005011	
55 Ethylbenzene	91	20.462	20.464	-0.002	100	13147	0.0722	
56 m-Xylene & p-Xylene	91	20.650	20.651	-0.001	100	23777	0.1731	
57 o-Xylene	91	21.549	21.545	0.004	94	9889	0.0729	
58 Styrene	104	21.575	21.576	-0.001	88	11203	0.1347	
62 1,3,5-Trimethylbenzene	120	23.527	23.527	-0.003	98	888	0.0128	
63 1,2,4-Trimethylbenzene	120	24.314	24.317	-0.003	97	2806	0.0468	
70 Naphthalene	128	29.699	29.700	-0.001	100	9324	0.2001	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

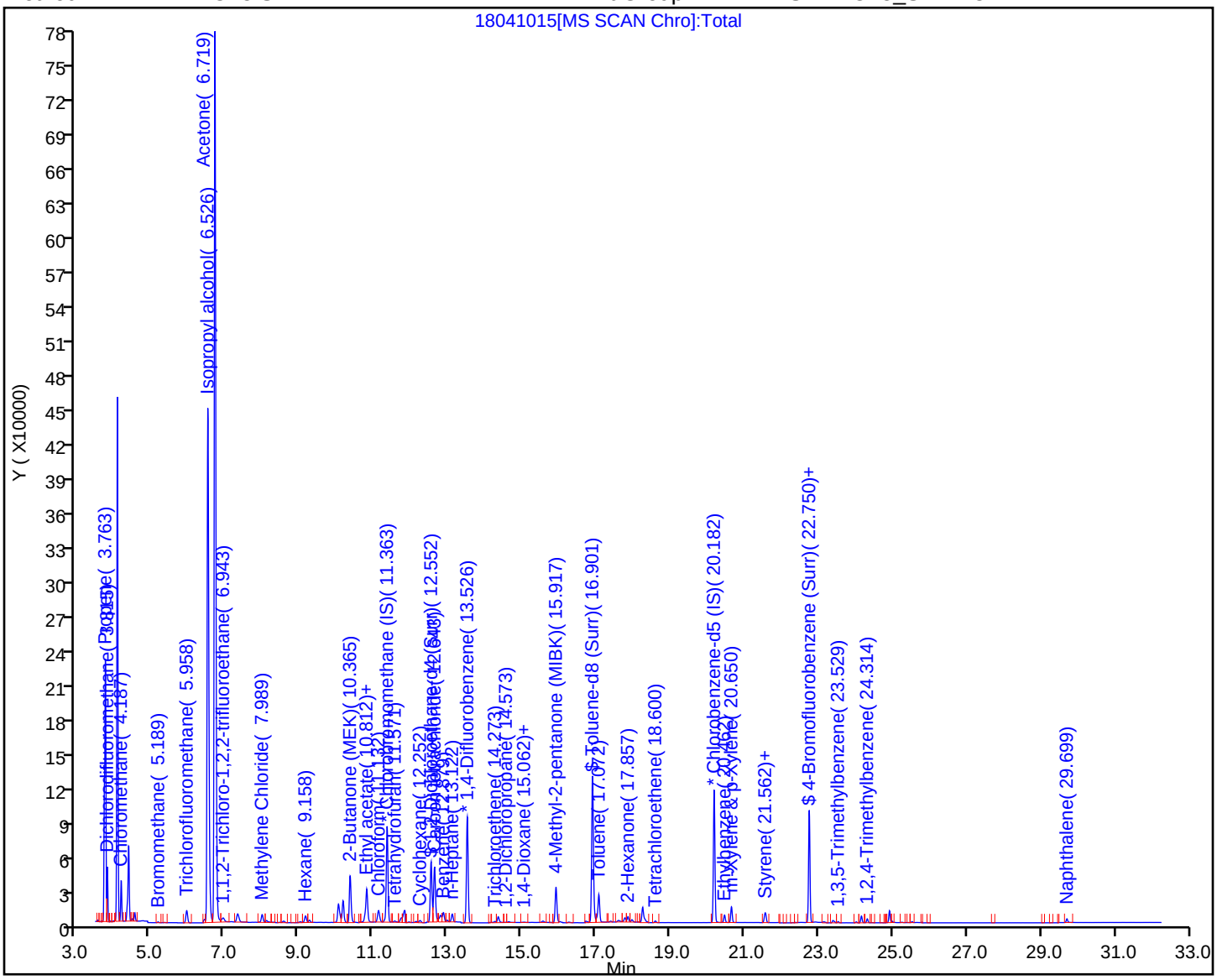
VAMSIS20_00140 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 11-Apr-2018 17:52:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041015.D

Injection Date:	10-Apr-2018 22:01:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9		
Client ID:	776IA-1_0318				
Operator ID:	SV	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041015.D
Lims ID: 320-37345-A-9
Client ID: 776IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 22:01:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-9
Misc. Info.: 790
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:52:48 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:52:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	1.92	95.85
$ 5 Toluene-d8 (Surr)	2.00	1.97	98.42
$ 6 4-Bromofluorobenzene (Surr)	2.00	2.03	101.43

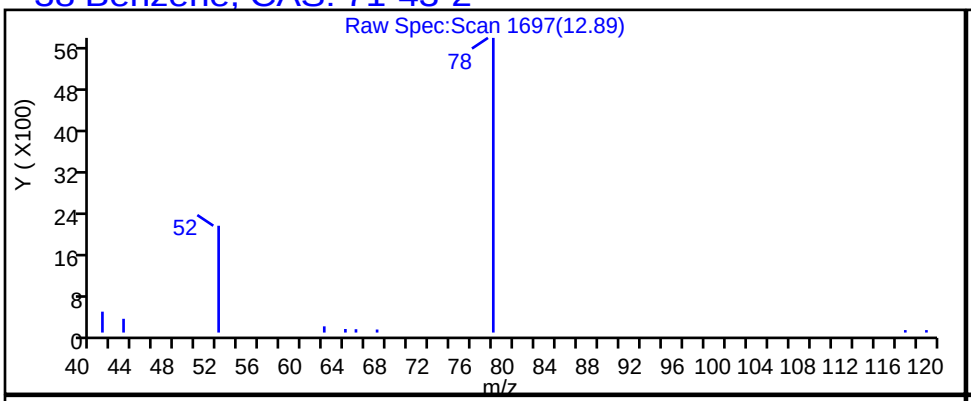
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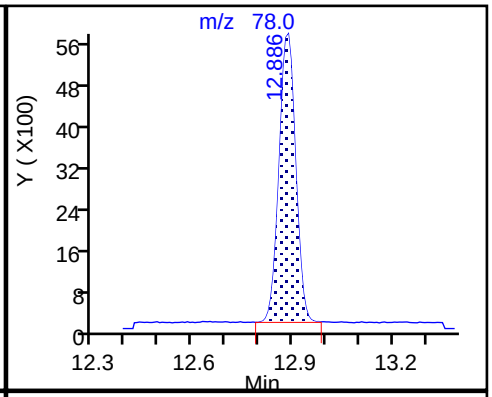
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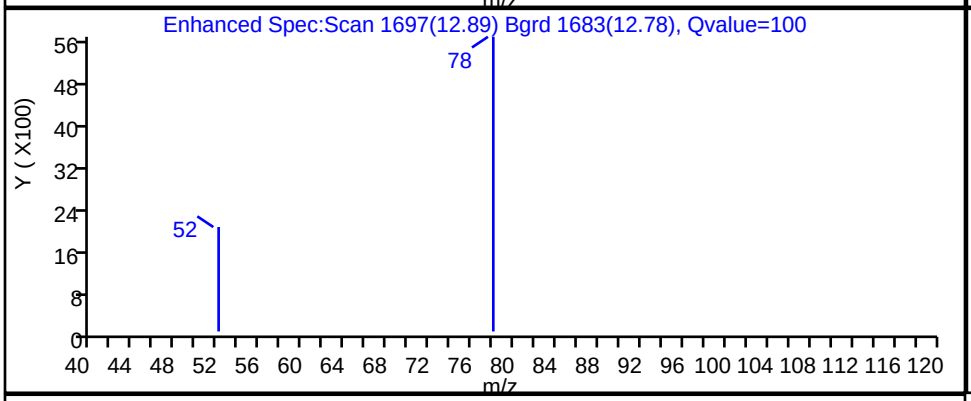
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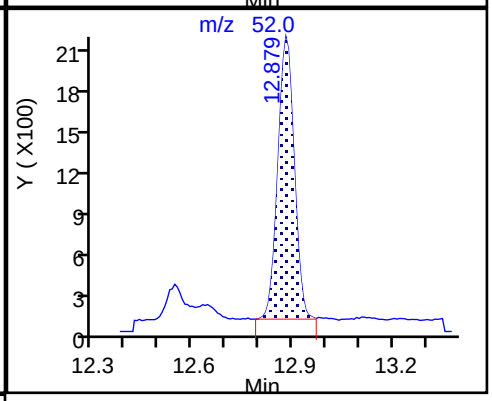
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Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9
Client ID:	776IA-1_0318		
Operator ID:	SV	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

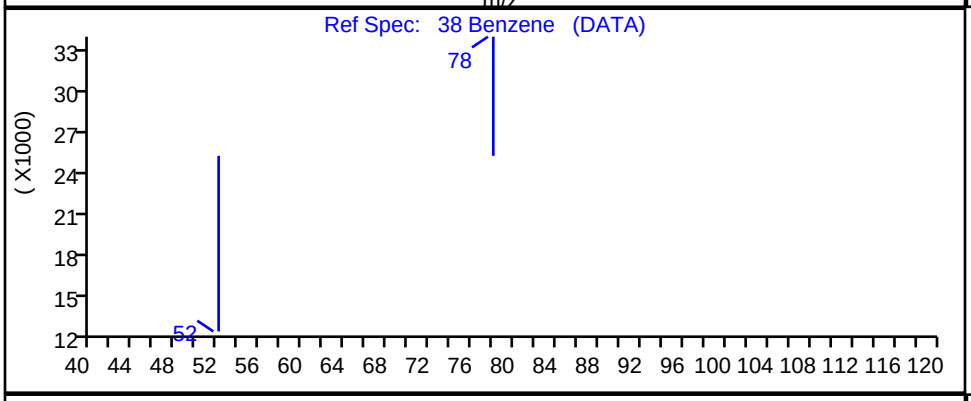
38 Benzene, CAS: 71-43-2

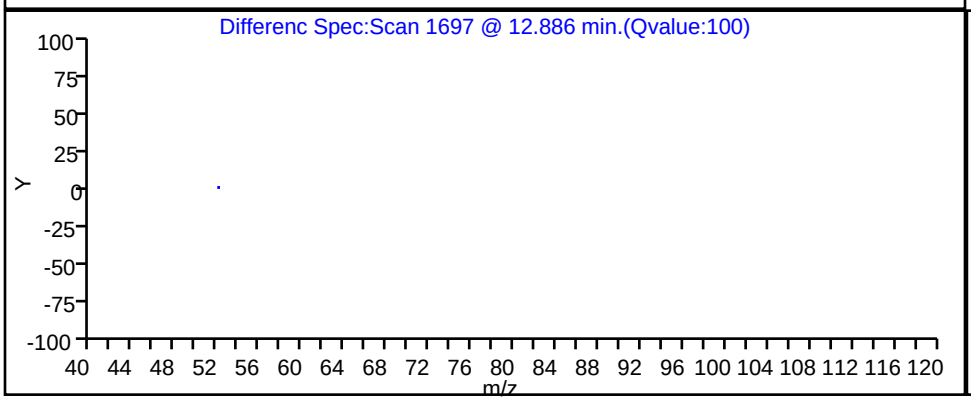


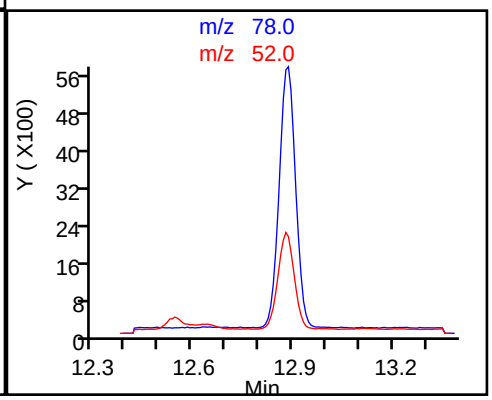












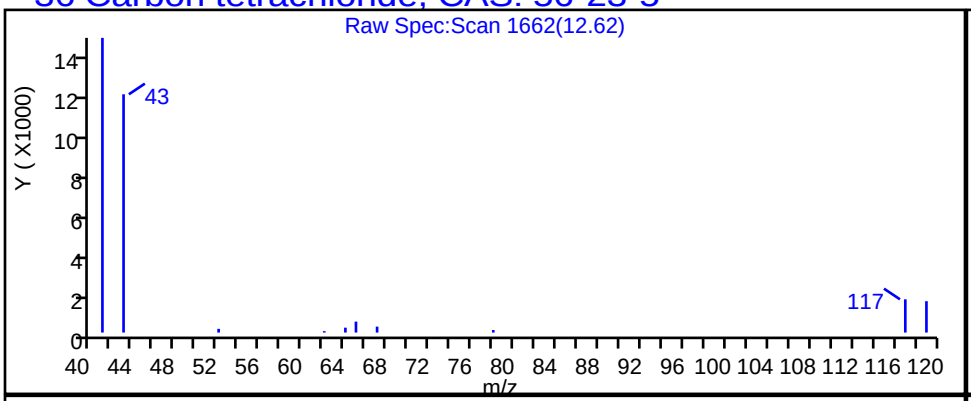
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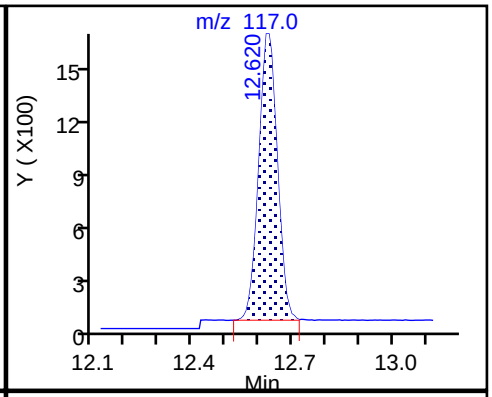
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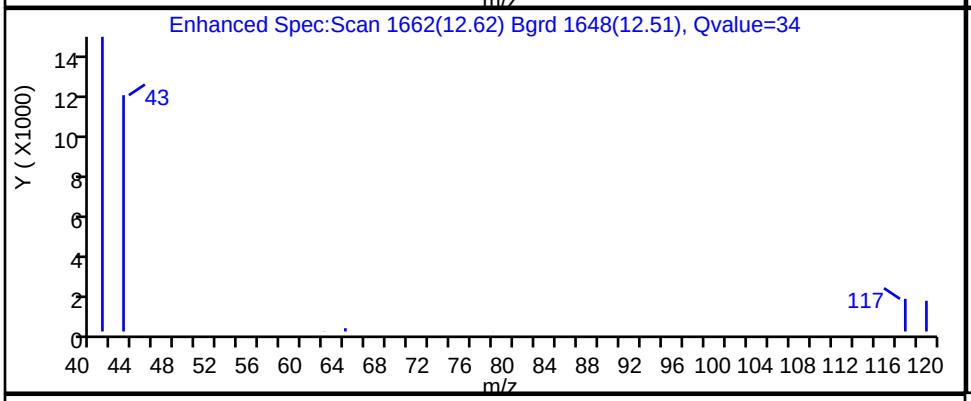
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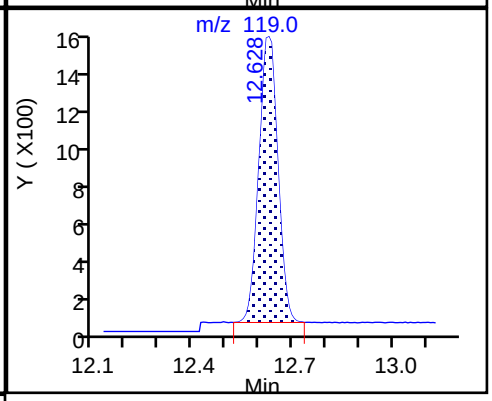
Injection Date:	10-Apr-2018 22:01:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9		
Client ID:	776IA-1_0318				
Operator ID:	SV	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

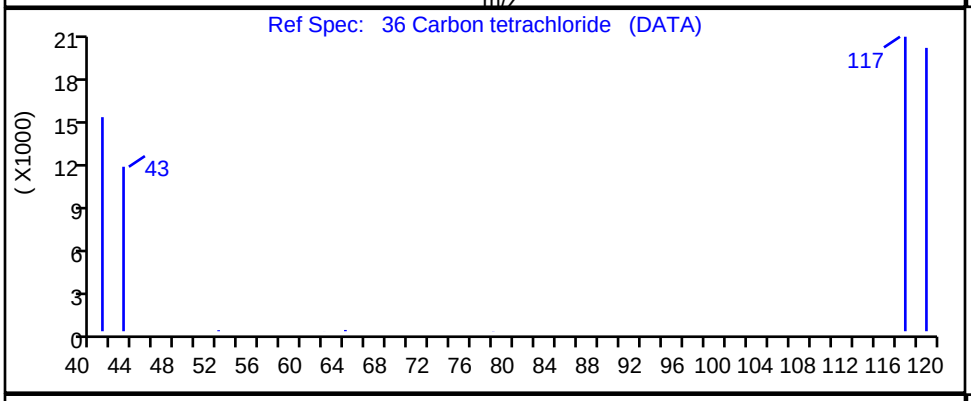
36 Carbon tetrachloride, CAS: 56-23-5

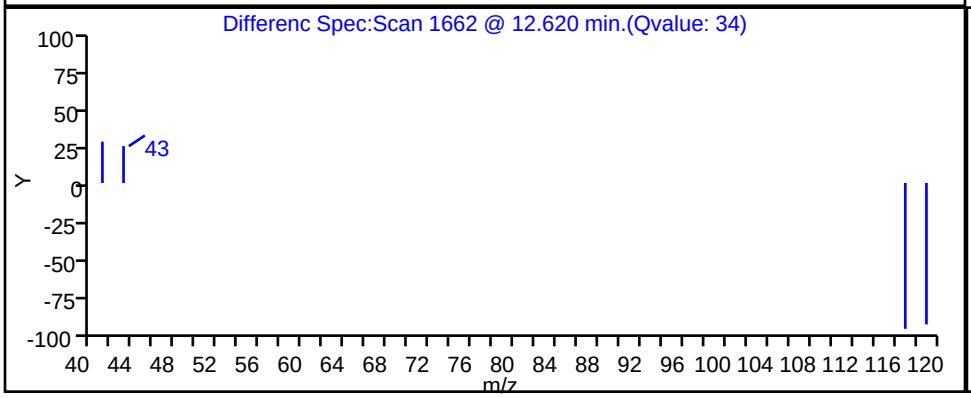


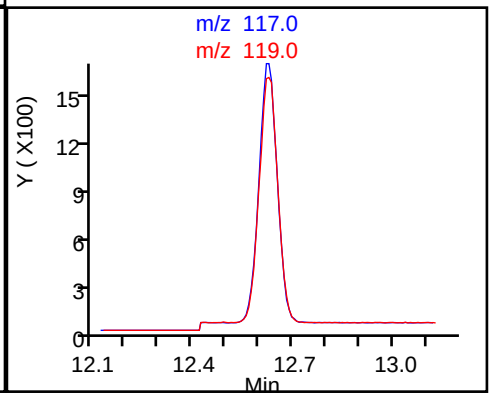












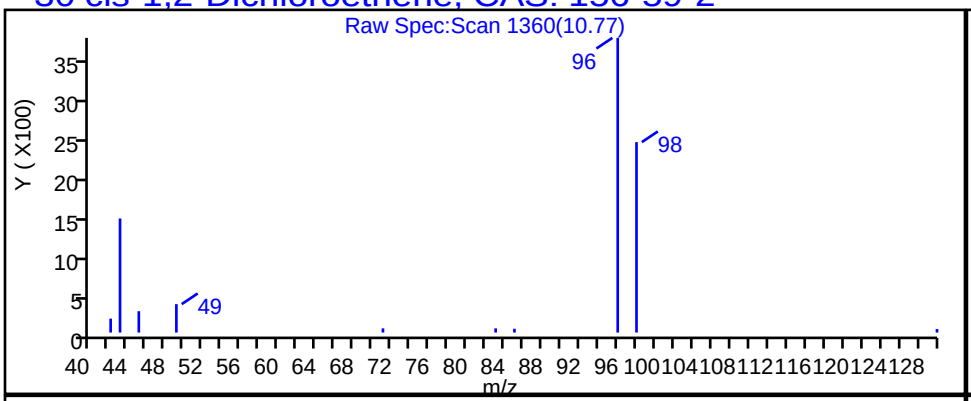
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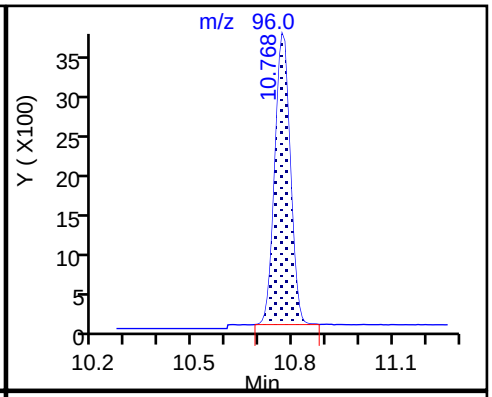
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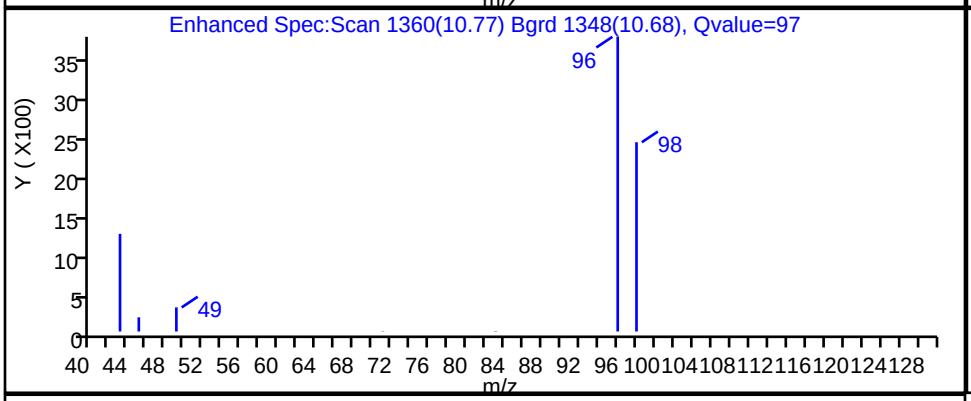
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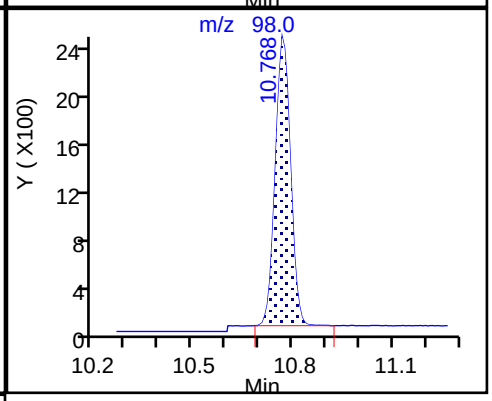
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Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9		
Client ID:	776IA-1_0318				
Operator ID:	SV	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

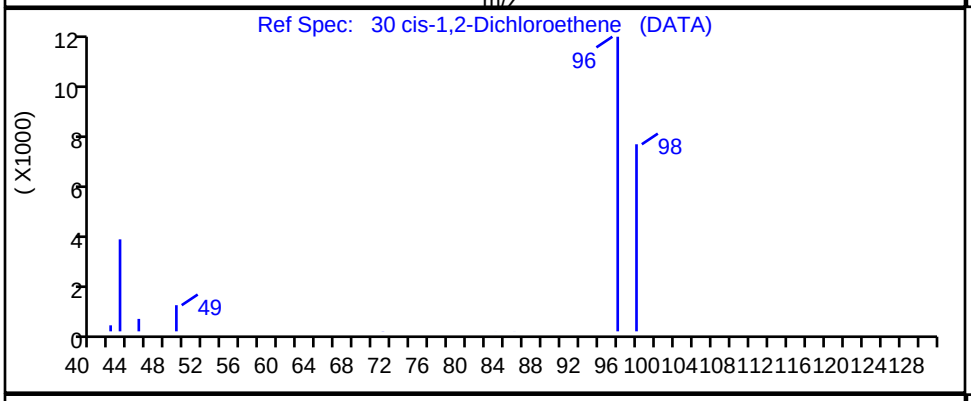
30 cis-1,2-Dichloroethene, CAS: 156-59-2

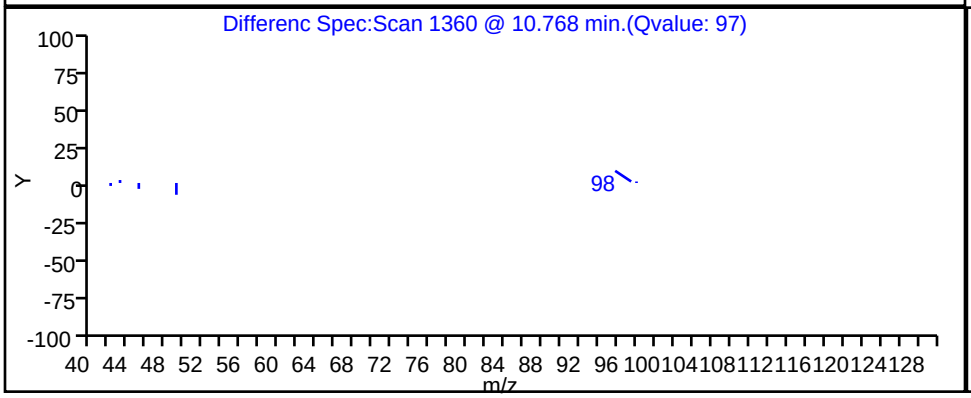


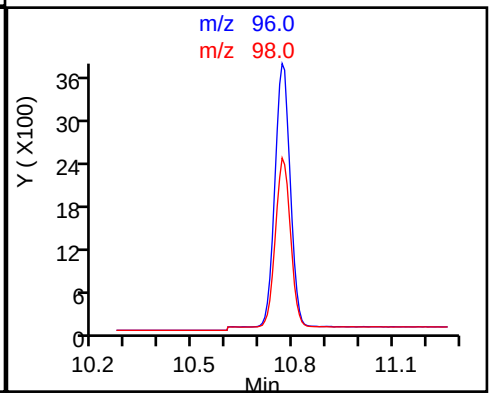












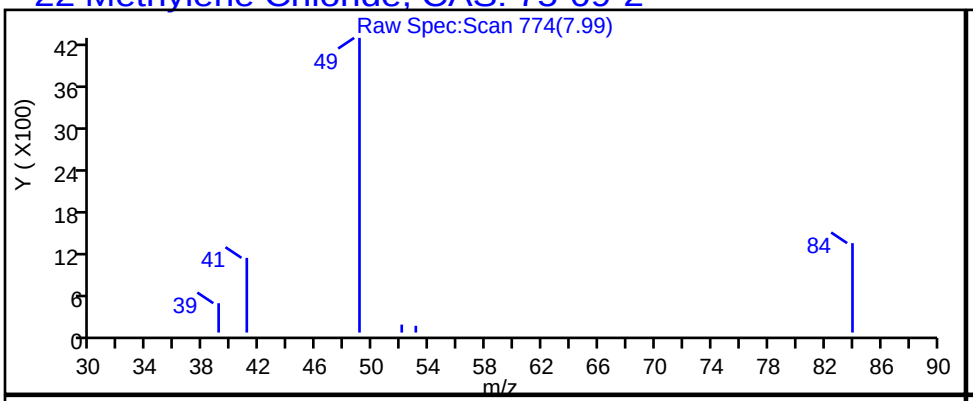
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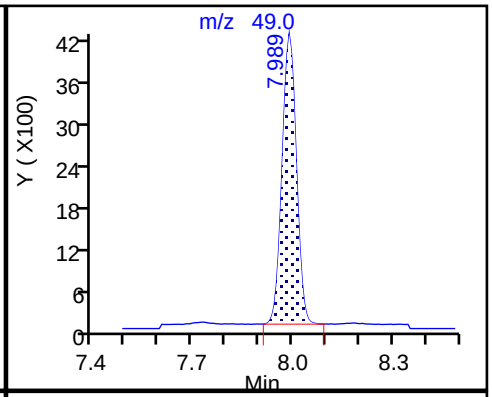
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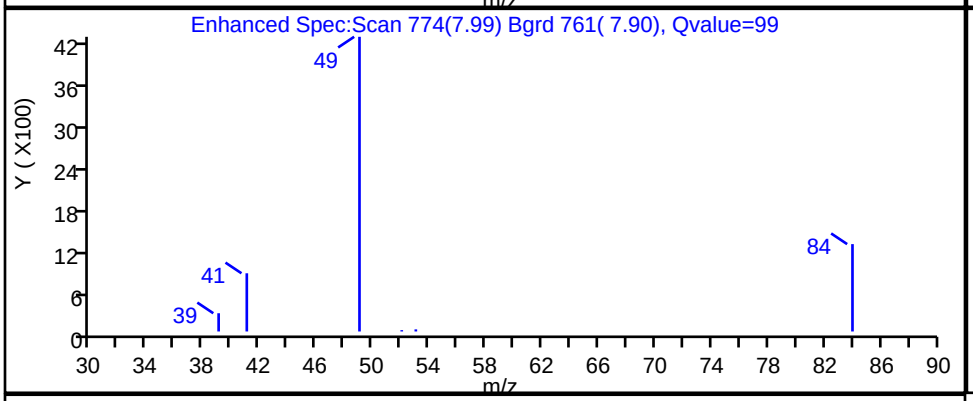
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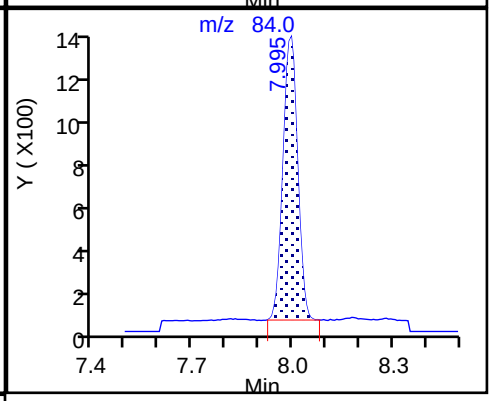
Injection Date:	10-Apr-2018 22:01:30	Instrument ID:	ATMS5
Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9
Client ID:	776IA-1_0318		
Operator ID:	SV	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

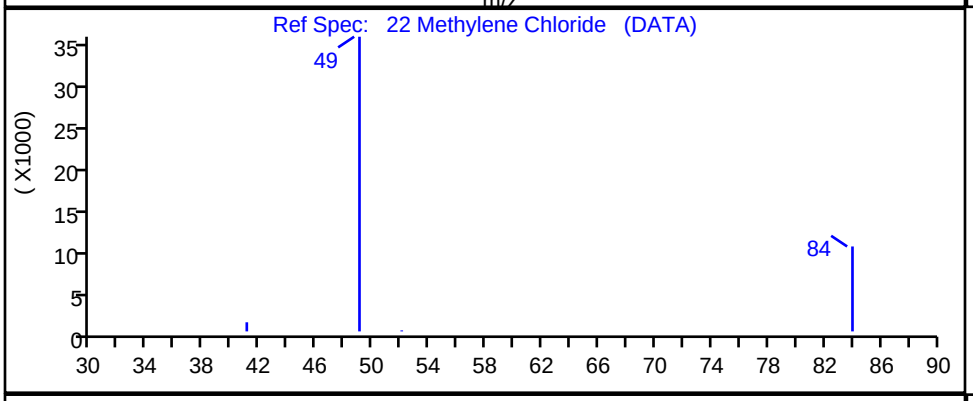
22 Methylene Chloride, CAS: 75-09-2

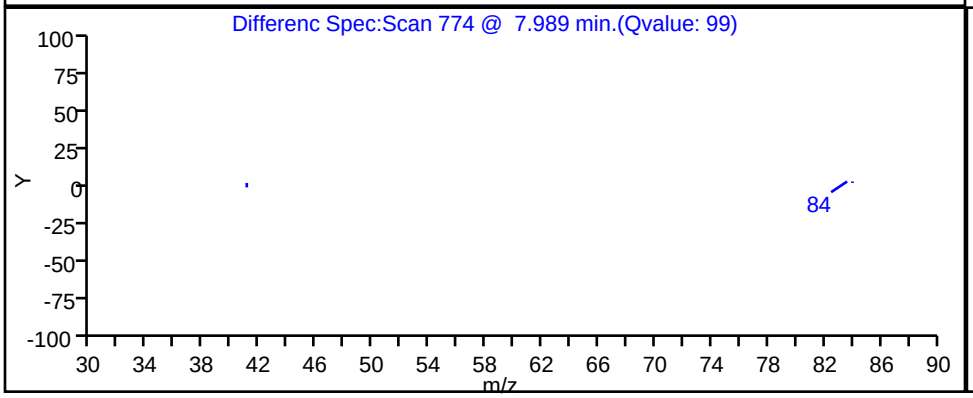


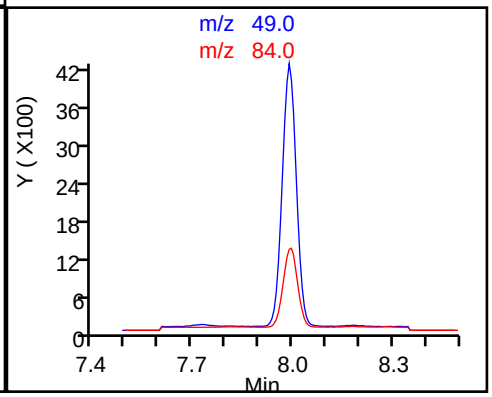












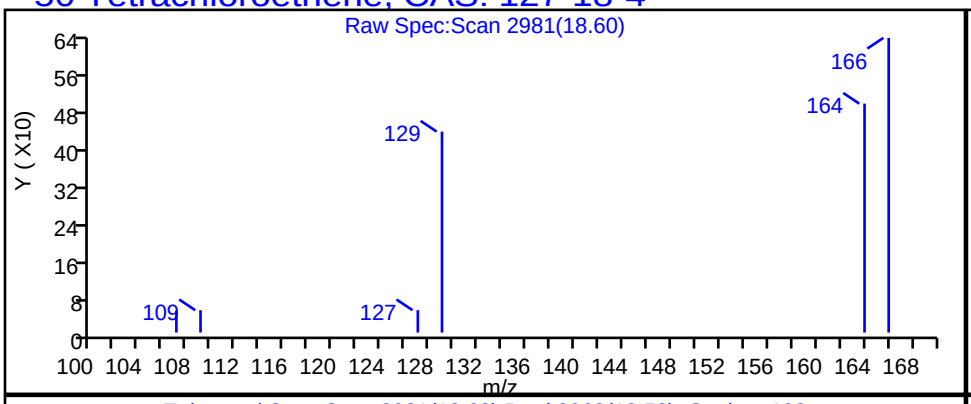
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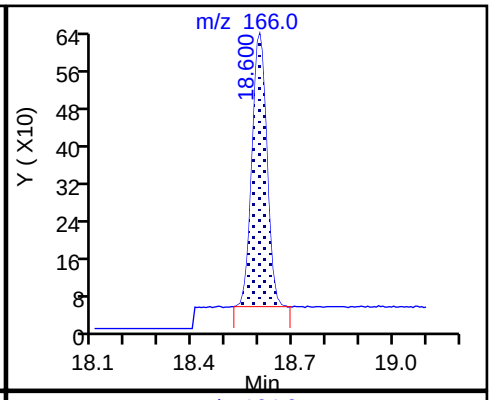
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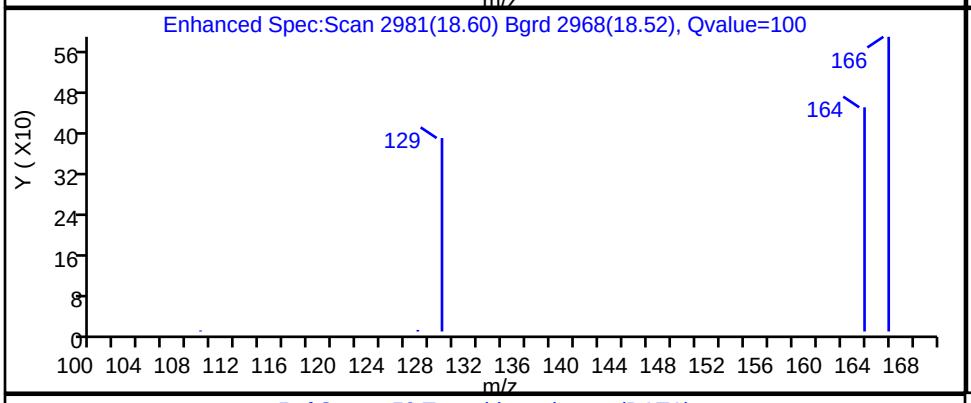
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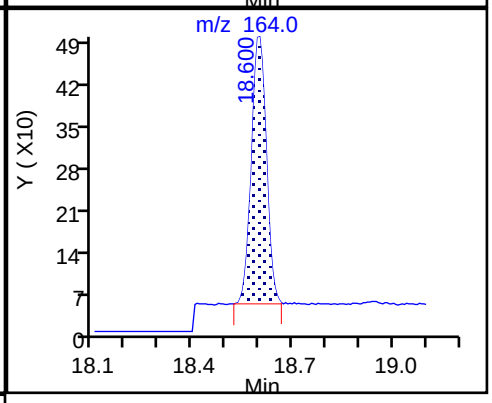
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Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9		
Client ID:	776IA-1_0318				
Operator ID:	SV	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

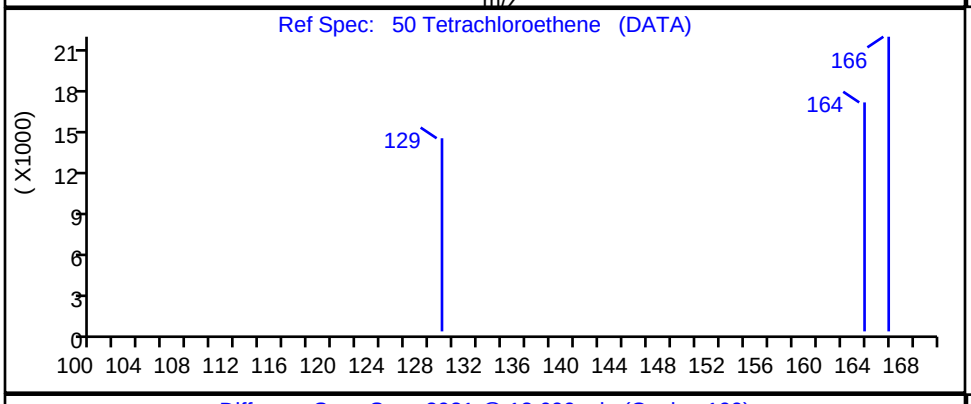
50 Tetrachloroethene, CAS: 127-18-4

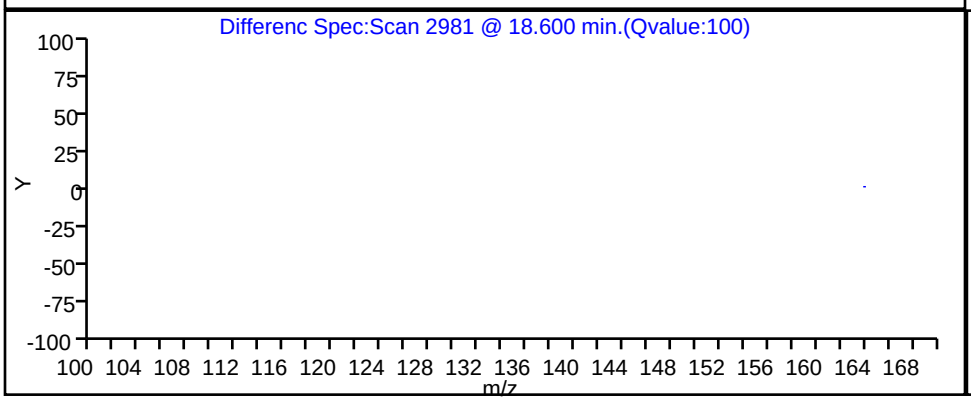


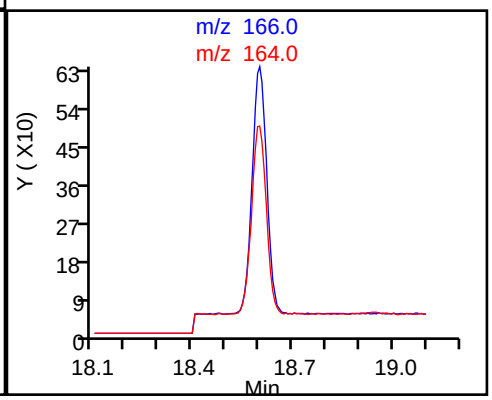












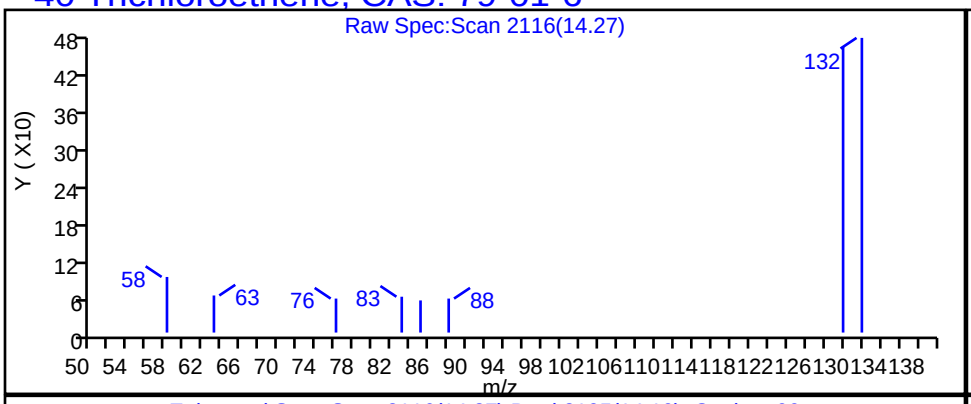
Report Date: 11-Apr-2018 17:52:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20

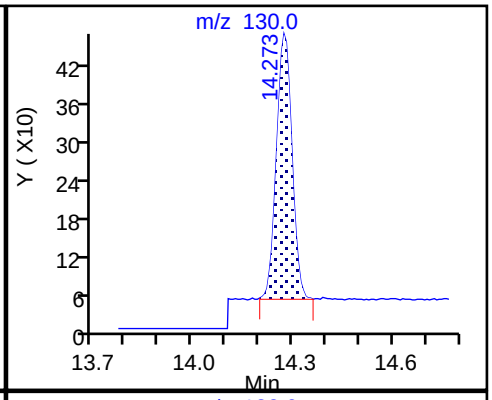
TestAmerica Sacramento

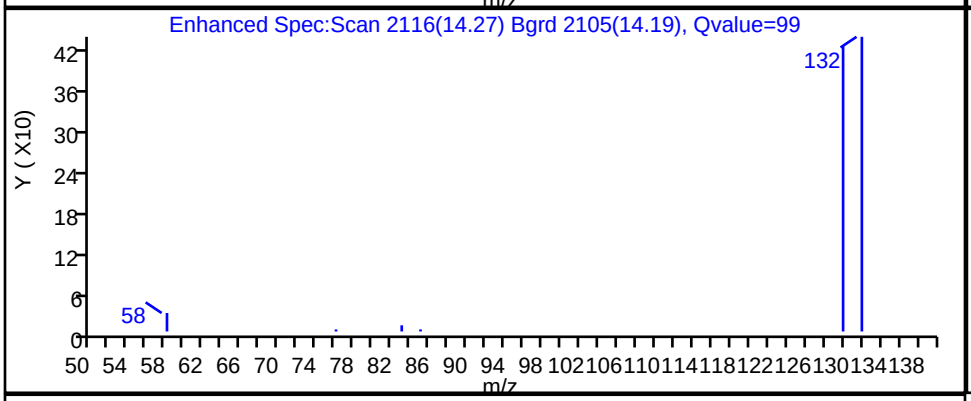
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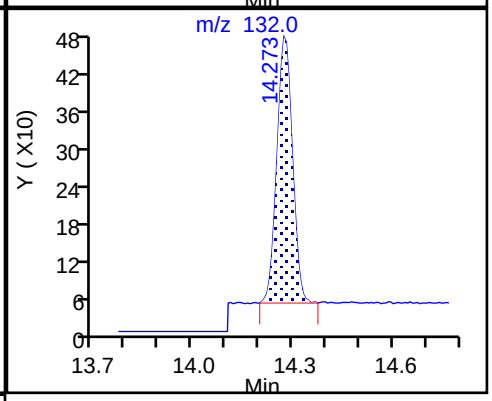
Injection Date:	10-Apr-2018 22:01:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9		
Client ID:	776IA-1_0318				
Operator ID:	SV	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

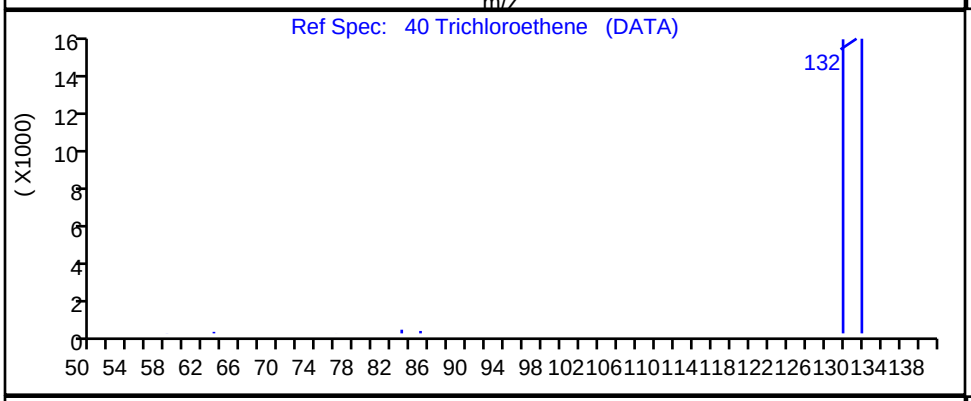
40 Trichloroethene, CAS: 79-01-6

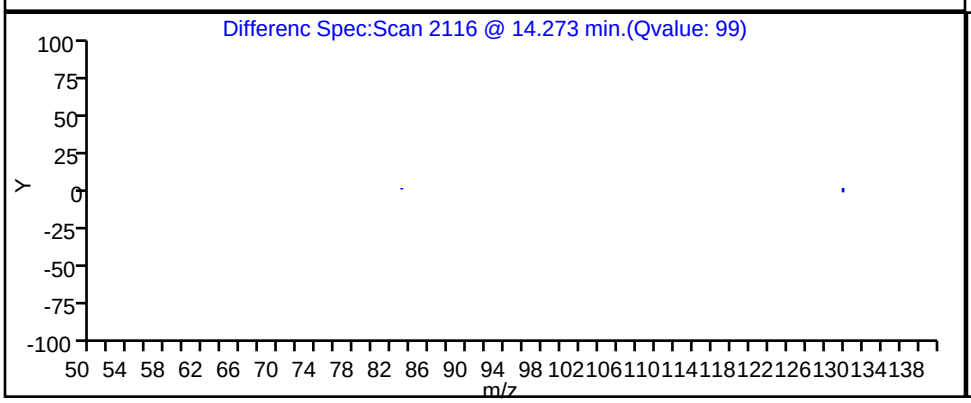


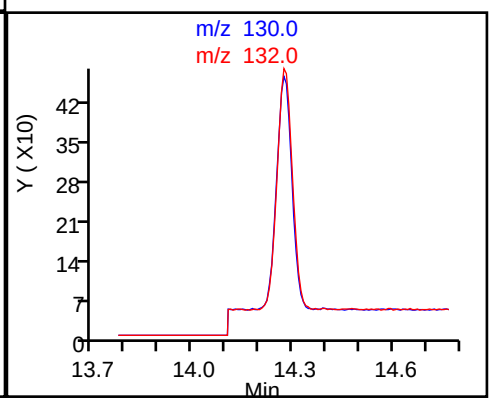












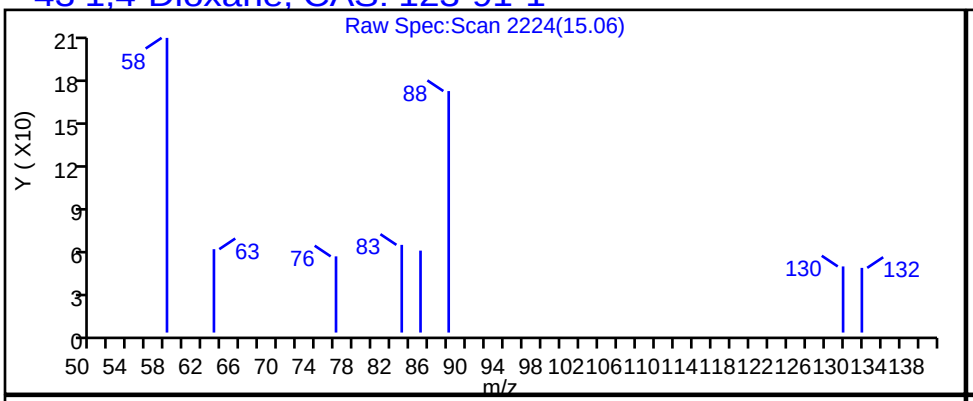
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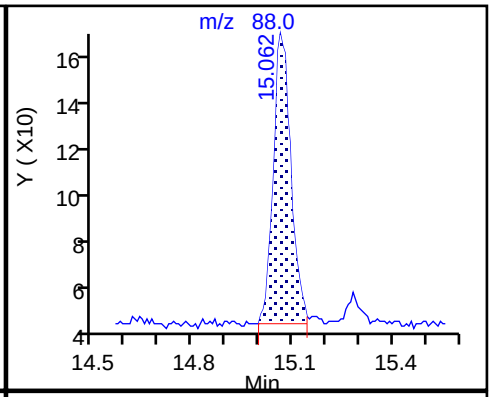
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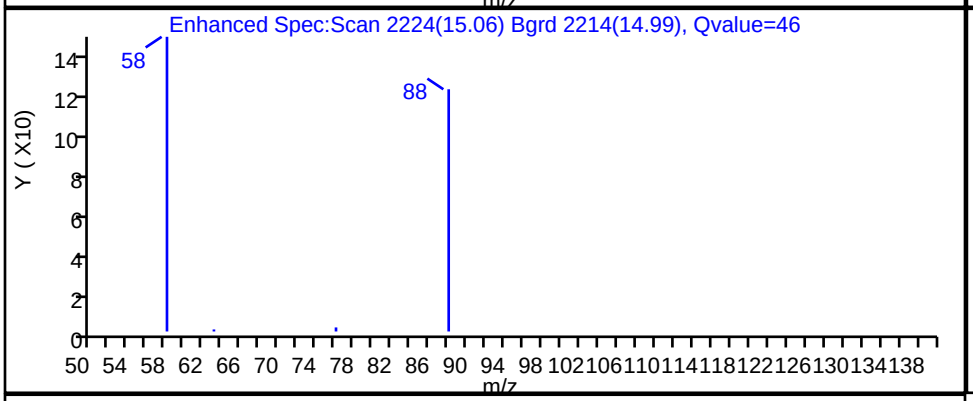
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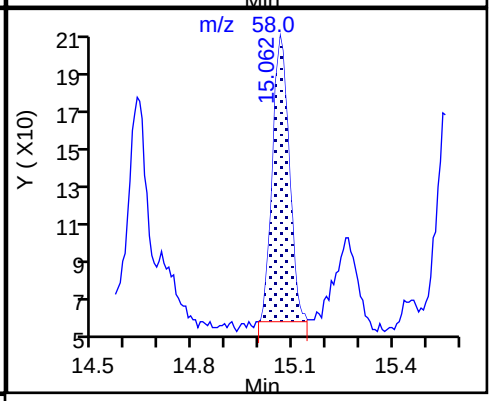
Injection Date:	10-Apr-2018 22:01:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-9	Lab Sample ID:	320-37345-9		
Client ID:	776IA-1_0318				
Operator ID:	SV	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

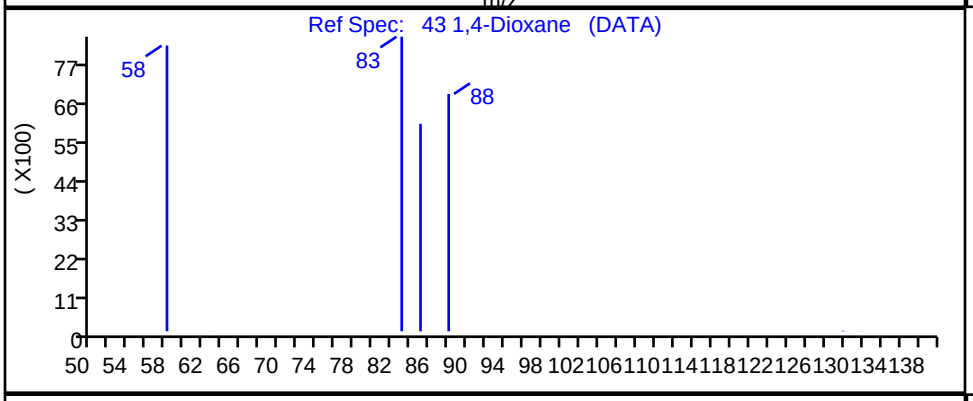
43 1,4-Dioxane, CAS: 123-91-1

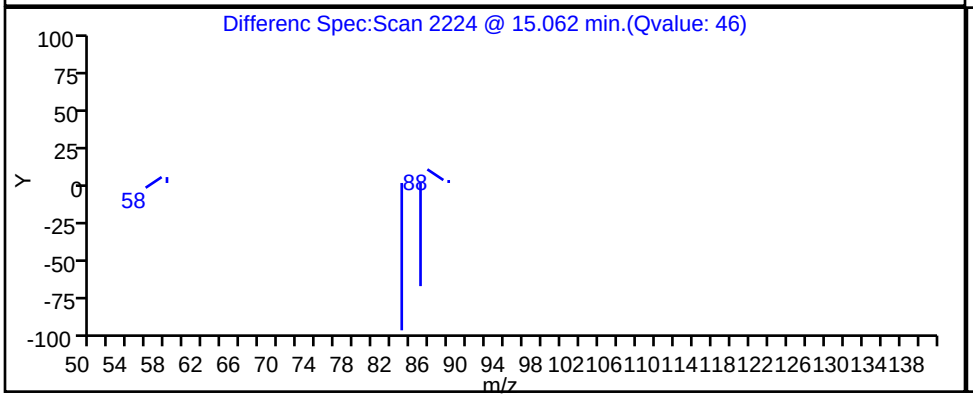


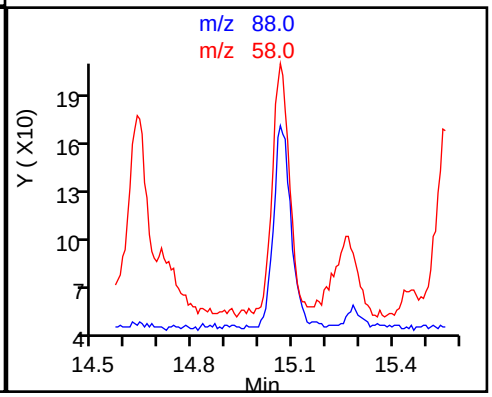












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 785IA-1_0318 Lab Sample ID: 320-37345-15

Matrix: Air Lab File ID: 18041016.D

Analysis Method: TO-15 SIM Date Collected: 03/21/2018 16:45

Sample wt/vol: 725(mL) Date Analyzed: 04/10/2018 22:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.055	U M	0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	0.040	U	0.079	0.040	0.020
71-43-2	Benzene	0.52		0.16	0.064	0.032
56-23-5	Carbon tetrachloride	0.34		0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.079	0.040	0.020
75-09-2	Methylene Chloride	0.52	J	0.69	0.35	0.17
127-18-4	Tetrachloroethene	0.14	U M	0.14	0.14	0.068
79-01-6	Trichloroethene	0.029	J M	0.11	0.054	0.027
75-01-4	Vinyl chloride	0.026	U	0.051	0.026	0.013

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041016.D
Lims ID: 320-37345-A-15
Client ID: 785IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 22:56:30 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-15
Misc. Info.: 725
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:56:16 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:56:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.370	11.370	0.000	100	55089	2.00	
* 2 1,4-Difluorobenzene	114	13.526	13.530	-0.004	100	241132	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.189	-0.002	100	178686	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	84	106869	1.91	
$ 5 Toluene-d8 (Surr)	100	16.901	16.909	-0.008	100	140813	1.92	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.751	-0.001	100	99271	1.73	
7 Propene	41	3.763	3.755	0.008	84	33402	0.4161	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	100	49362	0.4197	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	99	939	0.0145	
10 Chloromethane	50	4.194	4.187	0.007	100	38941	0.4927	
13 Bromomethane	94	5.189	5.184	0.005	94	230	0.007413	
15 Trichlorofluoromethane	101	5.962	5.962	0.000	100	20795	0.2085	
16 Isopropyl alcohol	45	6.533	6.541	-0.008	0	63329	0.2985	
17 Acrolein	56	6.593	6.593	0.000	79	3796	0.1247	
18 Acetone	43	6.727	6.742	-0.015	100	253306	2.21	
19 1,1,2-Trichloro-1,2,2-trif	101	6.950	6.950	0.000	99	5382	0.0624	
22 Methylene Chloride	49	7.989	7.989	0.000	99	16188	0.1484	
26 Hexane	41	9.165	9.165	0.000	97	7238	0.0799	
29 2-Butanone (MEK)	72	10.371	10.369	0.002	100	5201	0.2970	
31 Ethyl acetate	43	10.812	10.820	-0.008	100	164398	0.8796	
32 Chloroform	83	11.117	11.125	-0.008	99	1680	0.0203	
33 Tetrahydrofuran	42	11.579	11.579	0.030	100	1420	0.0133	M
35 Cyclohexane	84	12.252	12.256	-0.004	97	11442	0.2394	
36 Carbon tetrachloride	117	12.628	12.628	0.000	92	4880	0.0536	
37 1,2-Dichloroethane	62	12.742	12.749	-0.007	91	1384	0.0171	
38 Benzene	78	12.886	12.886	0.000	100	20221	0.1643	
39 n-Heptane	43	13.122	13.130	0.000	96	8678	0.0496	
40 Trichloroethene	130	14.273	14.273	-0.007	99	279	0.005470	a
41 1,2-Dichloropropane	76	14.558	14.573	-0.015	100	85	0.004092	
44 4-Methyl-2-pentanone (MIBK	43	15.937	15.937	0.020	100	3495	0.0163	M
46 Toluene	91	17.072	17.080	-0.008	100	57246	0.4035	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
49 2-Hexanone	58	17.873	17.849	0.024	51	824	0.0162	
55 Ethylbenzene	91	20.462	20.464	-0.002	100	7904	0.0511	
56 m-Xylene & p-Xylene	91	20.650	20.651	-0.001	100	19602	0.1680	
57 o-Xylene	91	21.545	21.545	0.000	94	8552	0.0742	
61 4-Ethyltoluene	120	23.417	23.417	-0.014	0	1338	0.0331	M
62 1,3,5-Trimethylbenzene	120	23.529	23.527	-0.001	99	2630	0.0446	
63 1,2,4-Trimethylbenzene	120	24.314	24.317	-0.003	97	7218	0.1418	
70 Naphthalene	128	29.695	29.700	-0.005	100	1255	0.0317	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

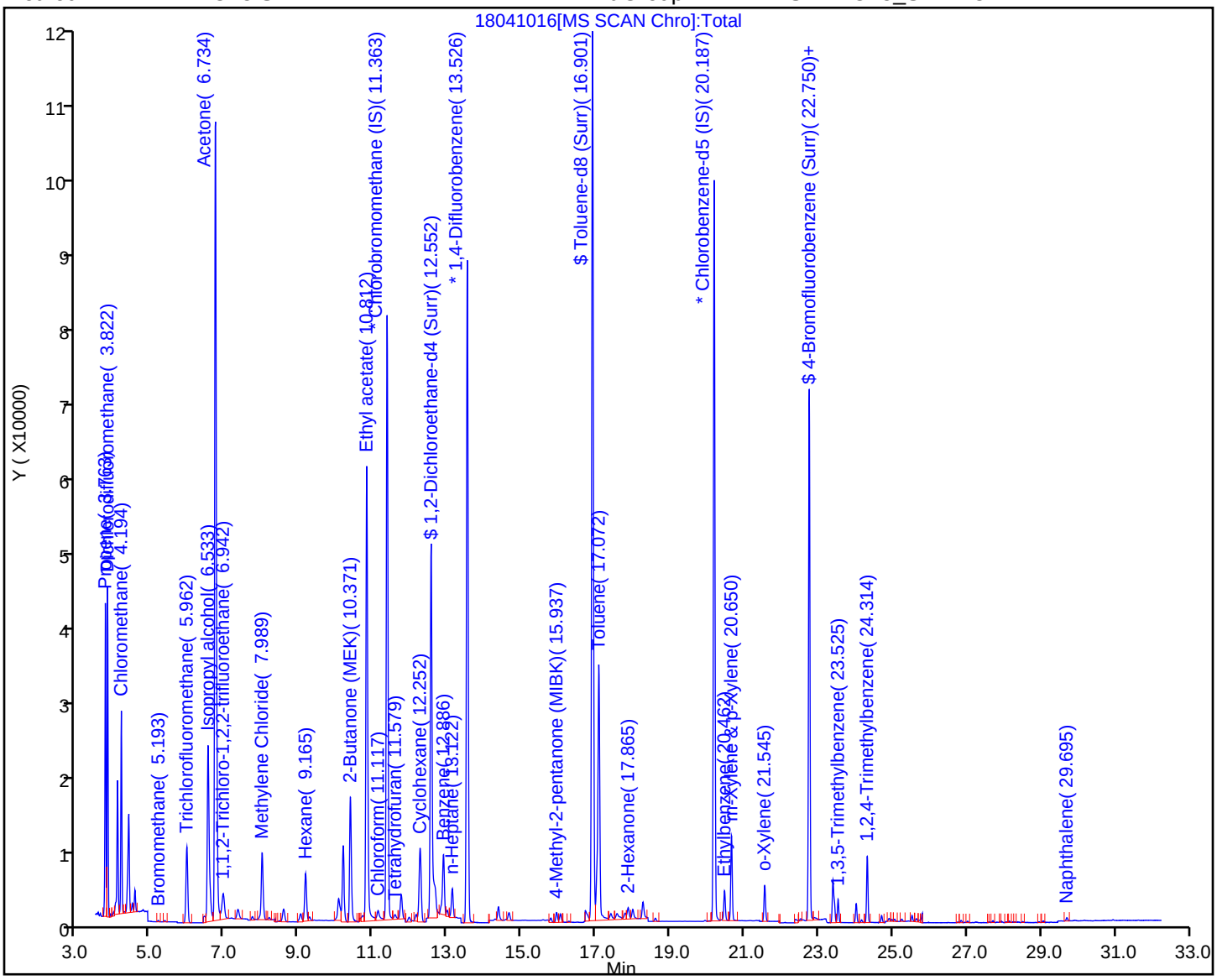
VAMSIS20_00140 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 11-Apr-2018 17:56:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041016.D

Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041016.D
Lims ID: 320-37345-A-15
Client ID: 785IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 22:56:30 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-15
Misc. Info.: 725
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:56:16 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:56:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	1.91	95.73
$ 5 Toluene-d8 (Surr)	2.00	1.92	95.99
$ 6 4-Bromofluorobenzene (Surr)	2.00	1.73	86.35

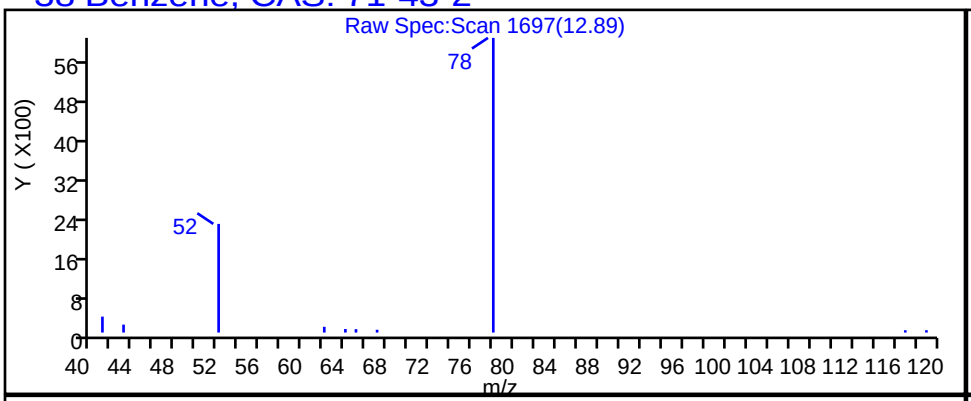
Report Date: 11-Apr-2018 17:56:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

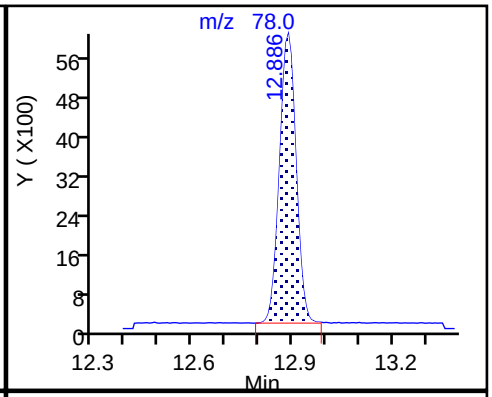
TestAmerica Sacramento

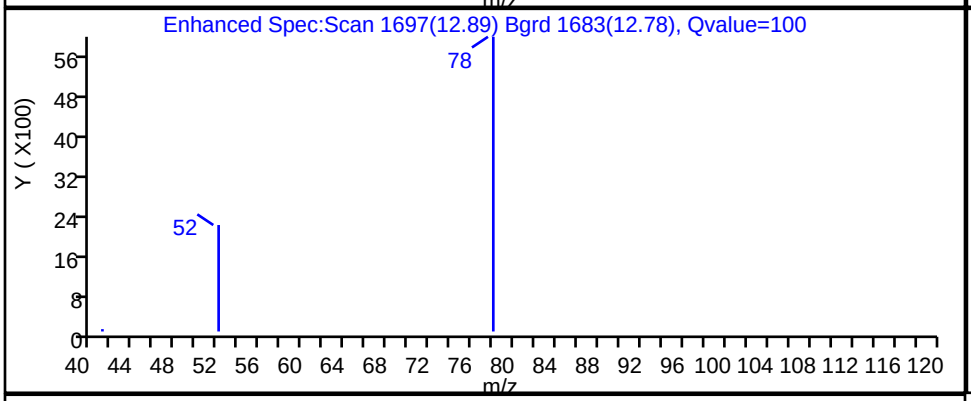
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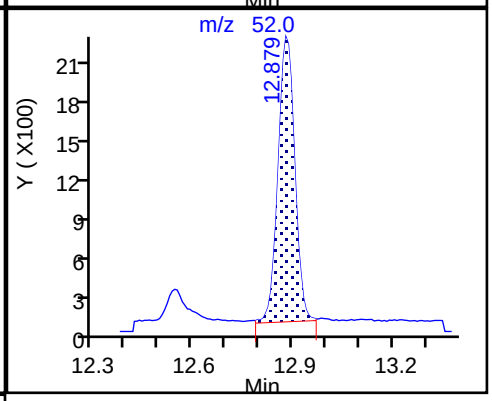
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Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

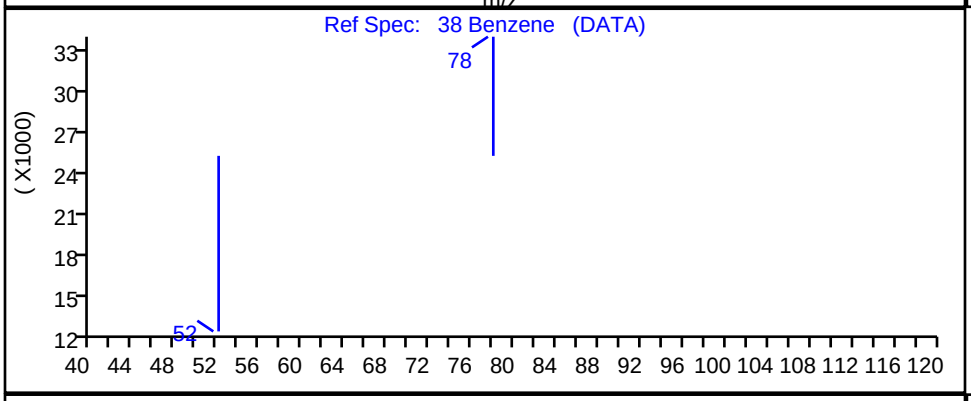
38 Benzene, CAS: 71-43-2

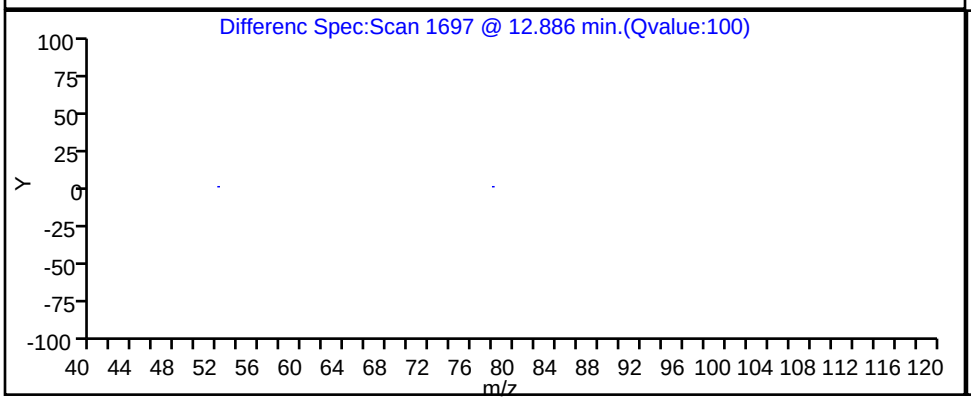


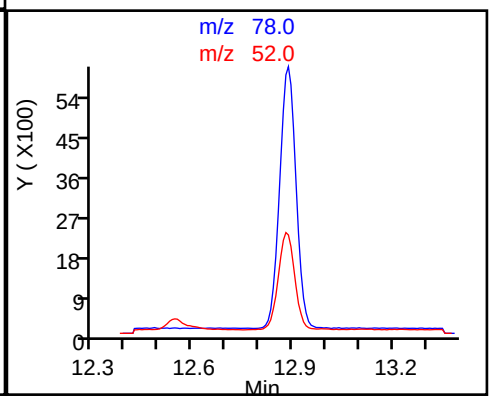












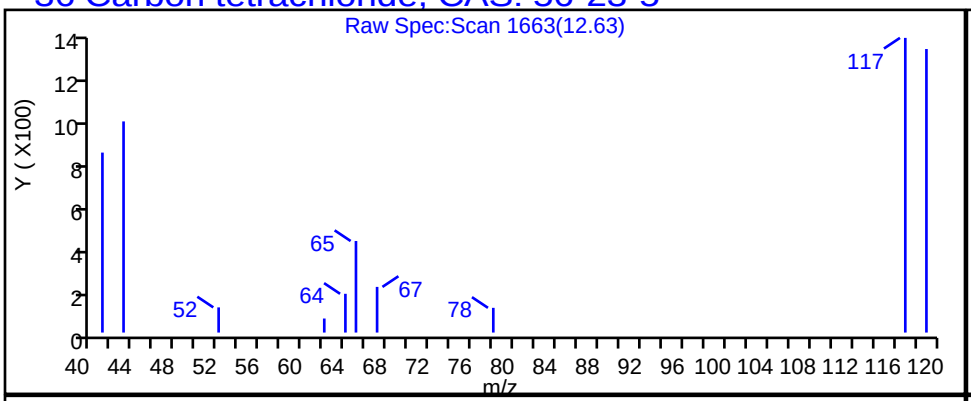
Report Date: 11-Apr-2018 17:56:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

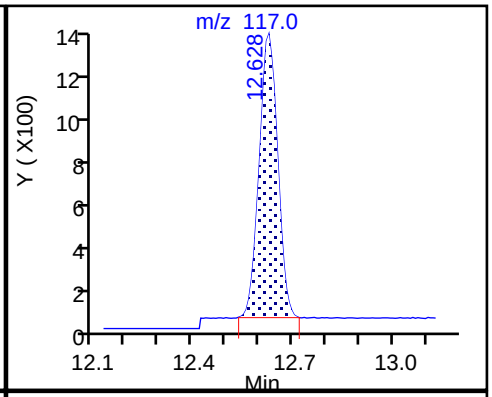
TestAmerica Sacramento

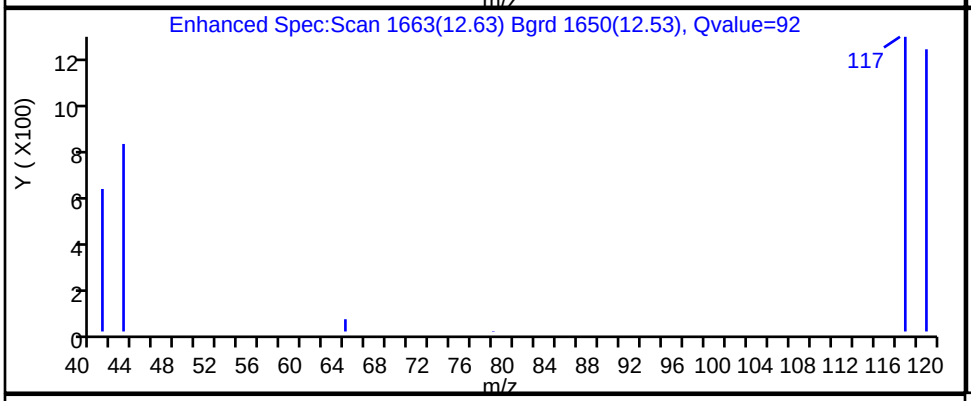
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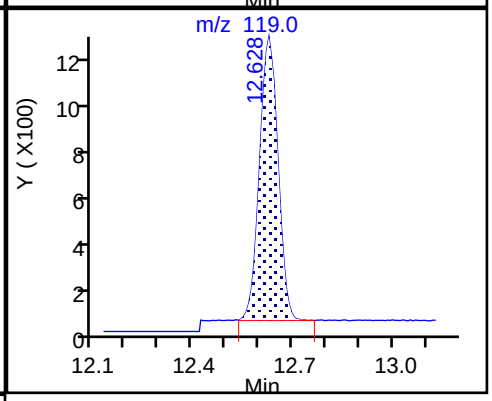
Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

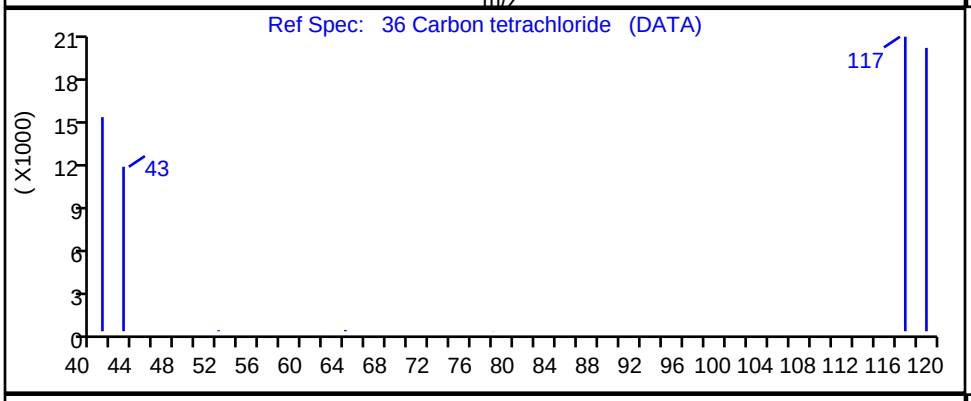
36 Carbon tetrachloride, CAS: 56-23-5

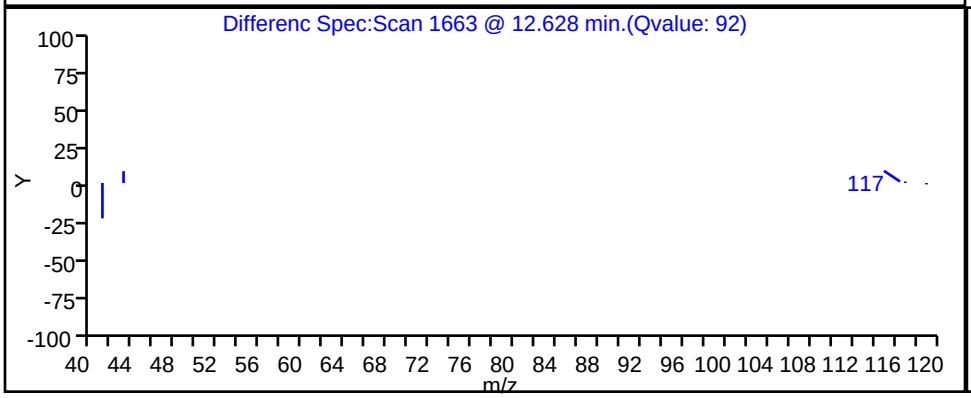


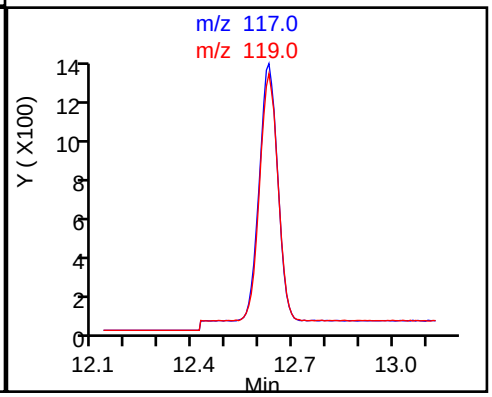












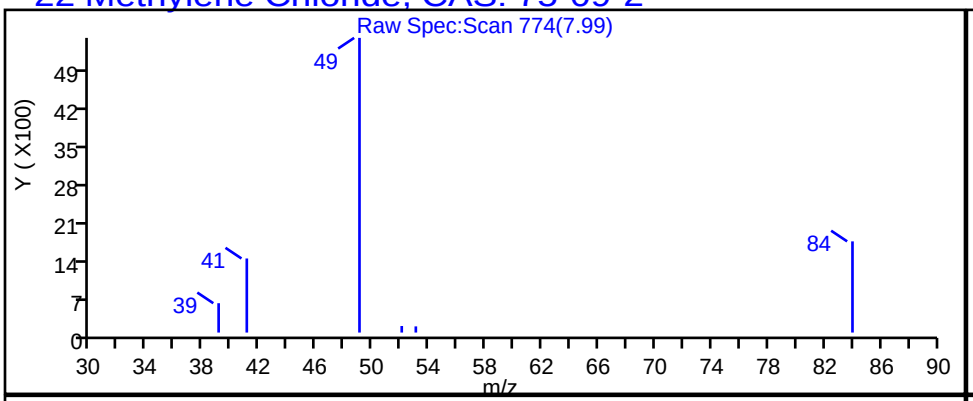
Report Date: 11-Apr-2018 17:56:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

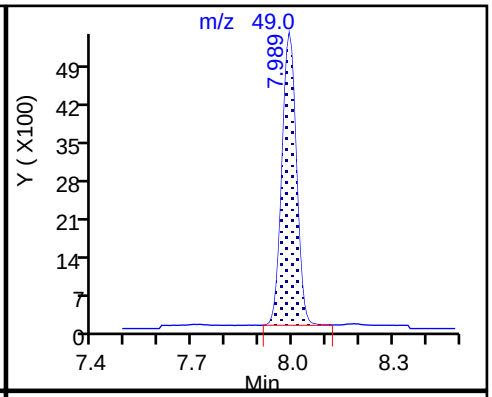
TestAmerica Sacramento

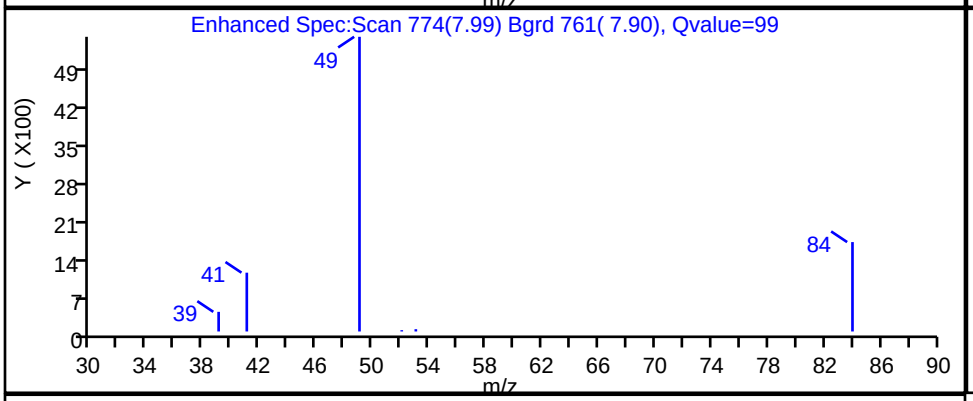
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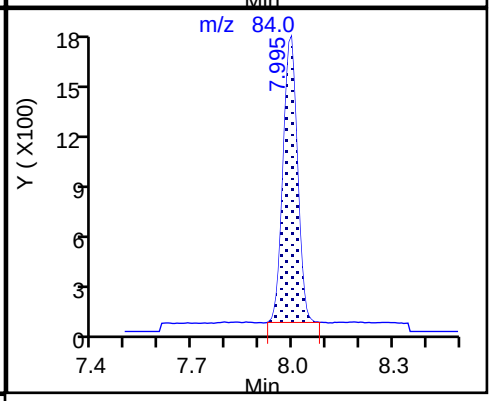
Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15
Client ID:	785IA-1_0318		
Operator ID:	SV	ALS Bottle#:	10 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

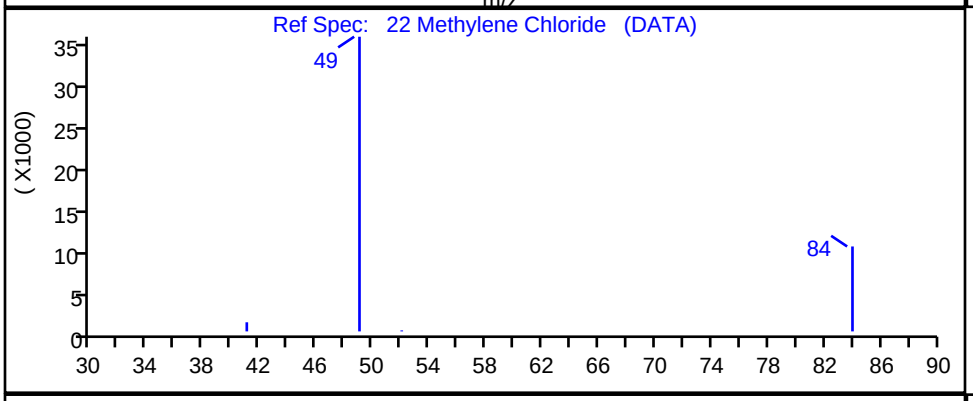
22 Methylene Chloride, CAS: 75-09-2

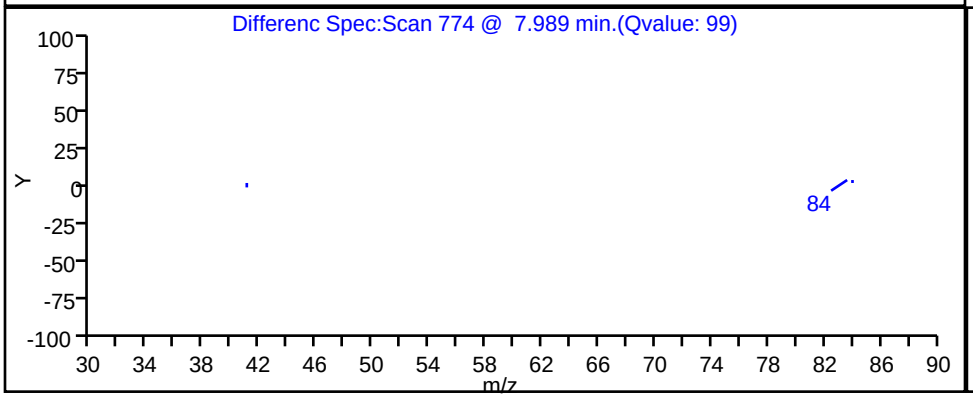


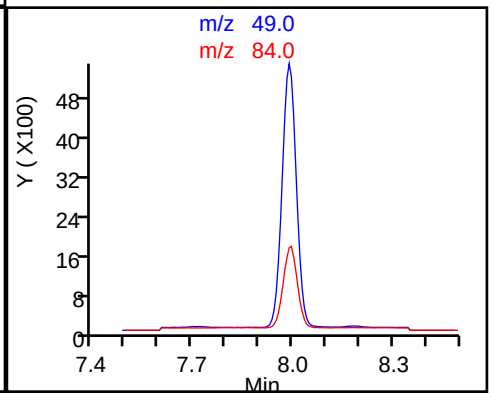












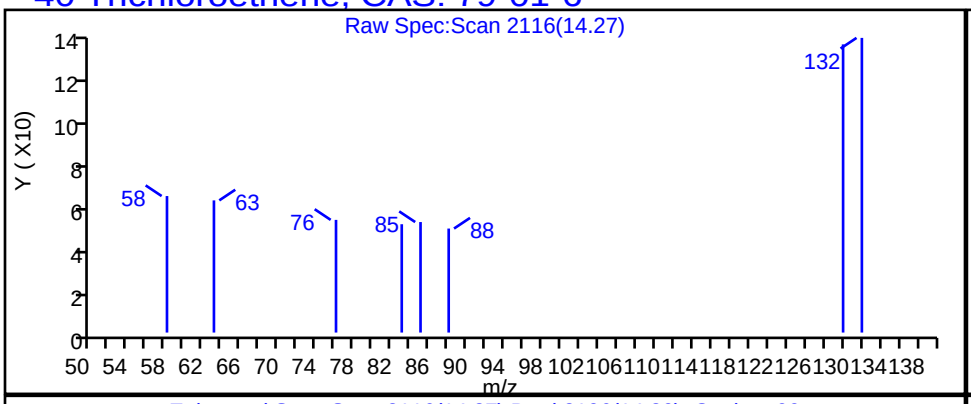
Report Date: 11-Apr-2018 17:56:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

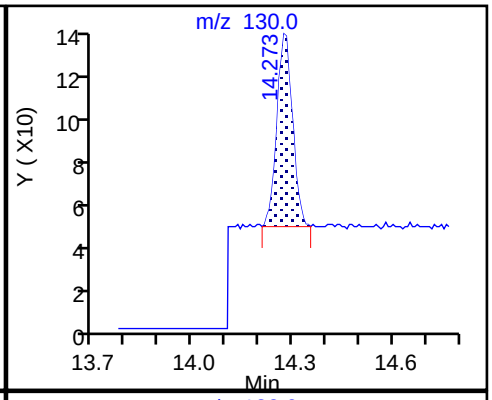
TestAmerica Sacramento

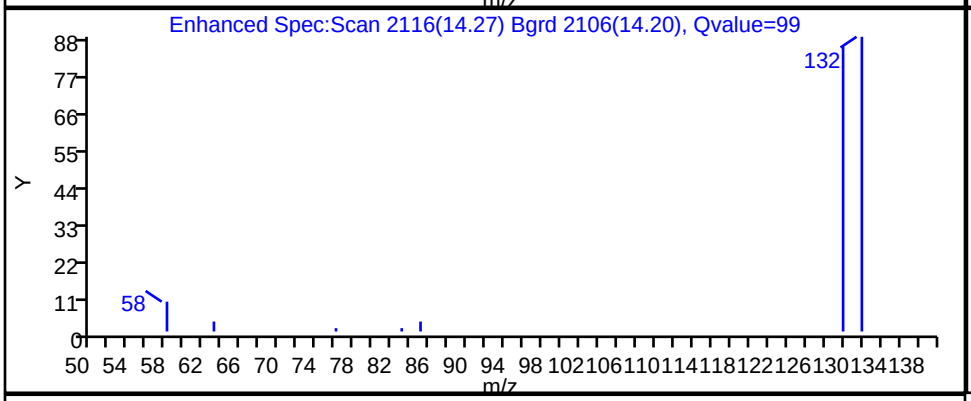
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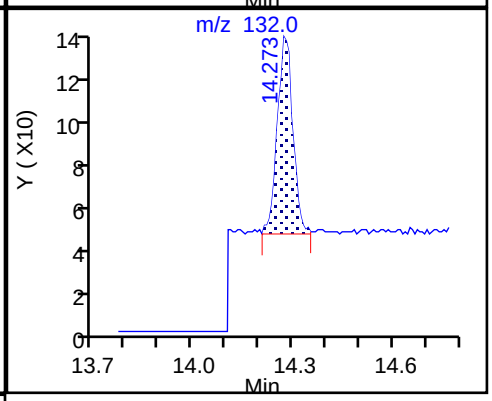
Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

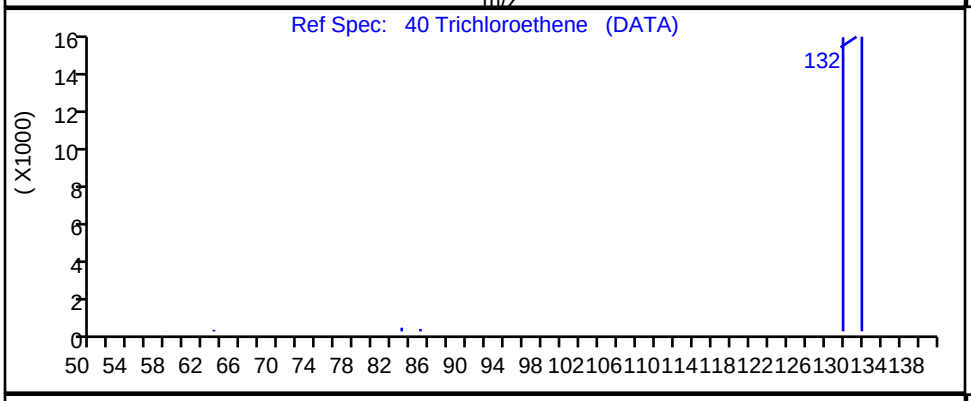
40 Trichloroethene, CAS: 79-01-6

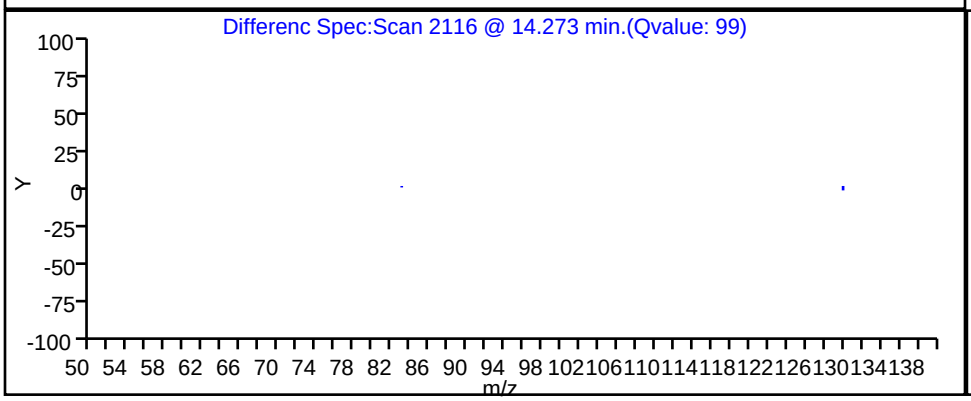


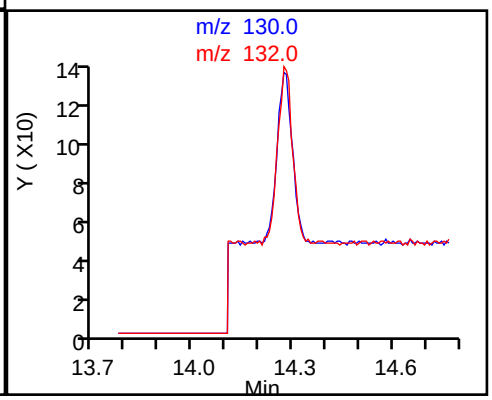












User Disabled Compound Report

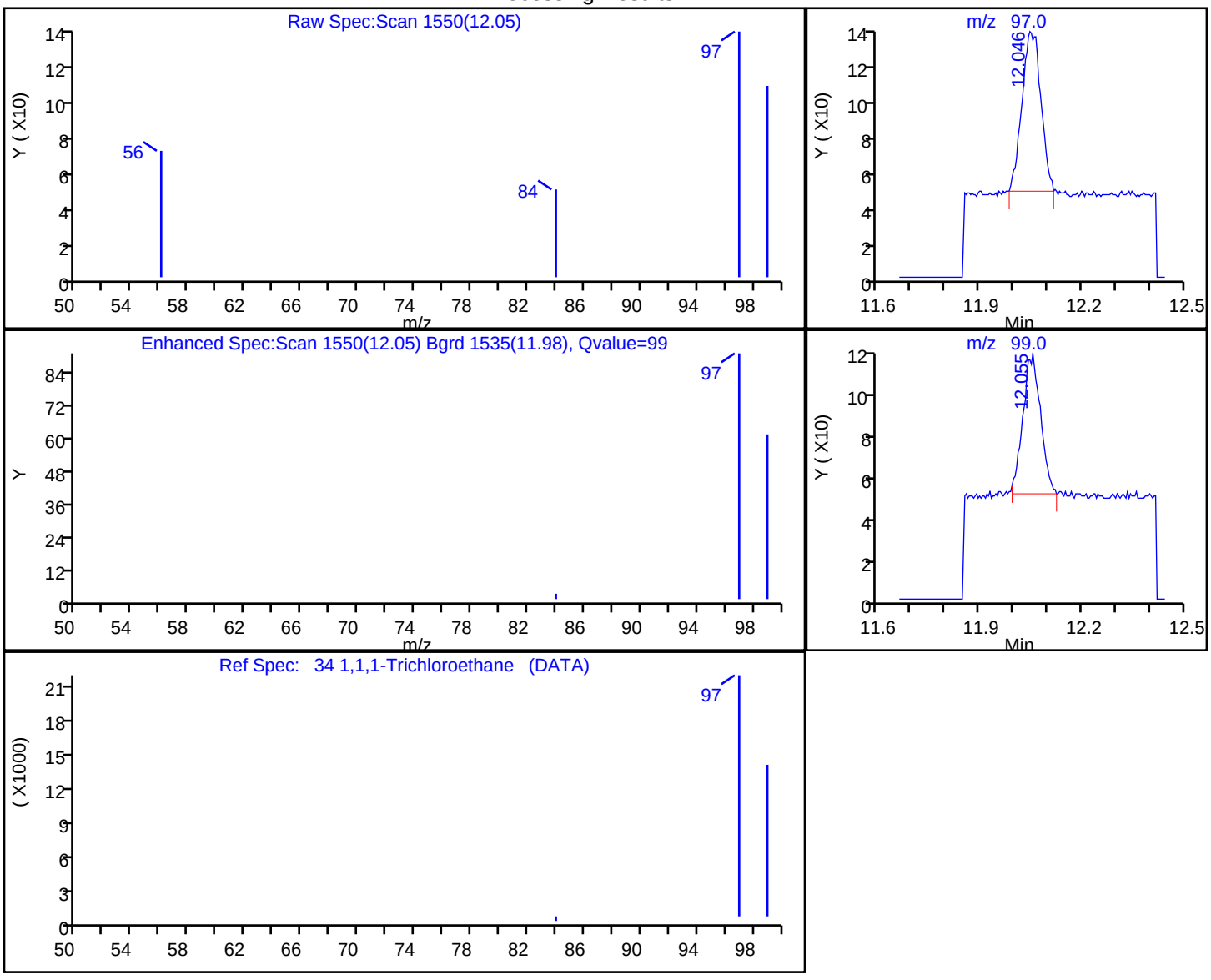
TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041016.D

Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

34 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
12.05	97.00	352	-0.004409
12.06	99.00	231	

Reviewer: phanthasena, 11-Apr-2018 17:56:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

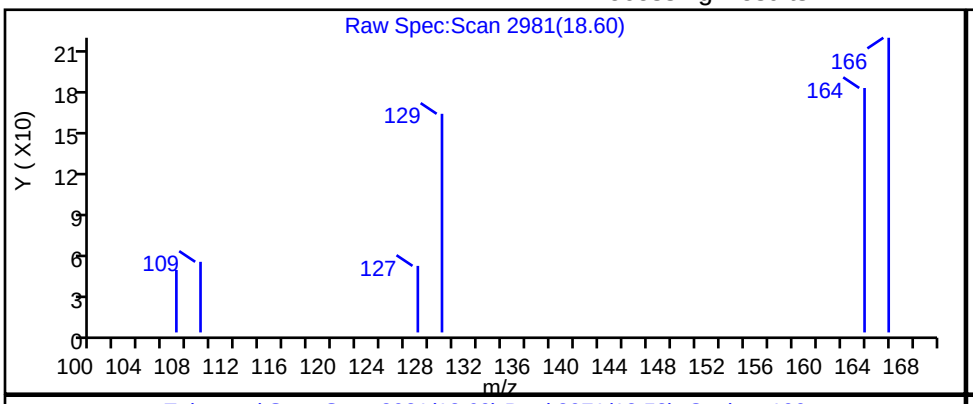
User Disabled Compound Report

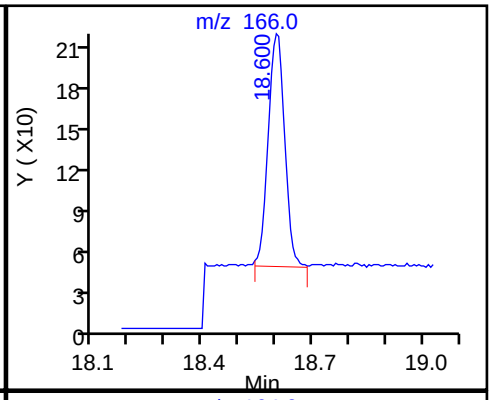
TestAmerica Sacramento

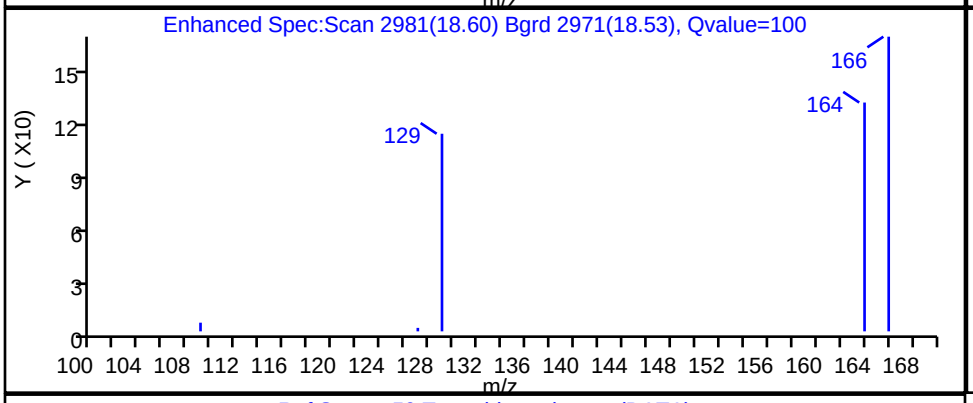
Data File:	\\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041016.D				
Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

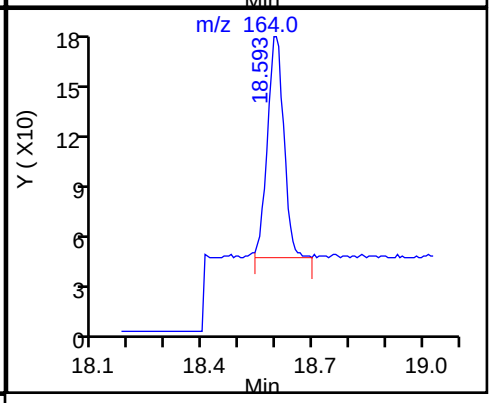
50 Tetrachloroethene, CAS: 127-18-4

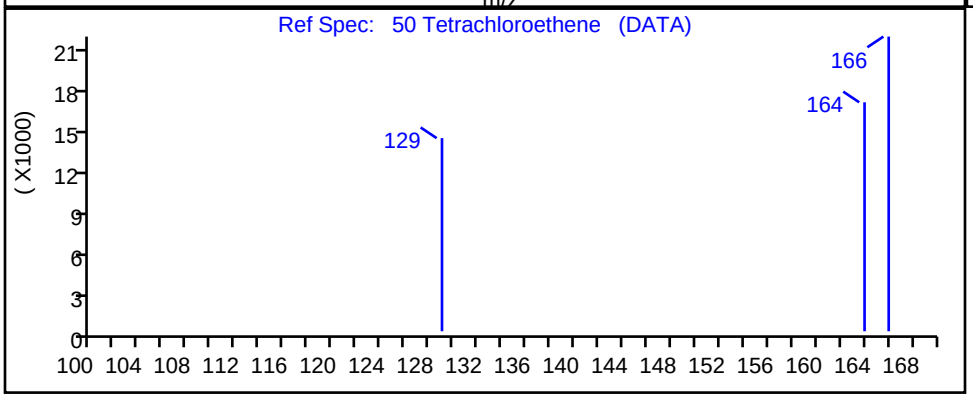
Processing Results











RT	Mass	Response	Amount
18.60	166.00	539	0.008887
18.59	164.00	422	

Reviewer: phanthasena, 11-Apr-2018 17:56:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

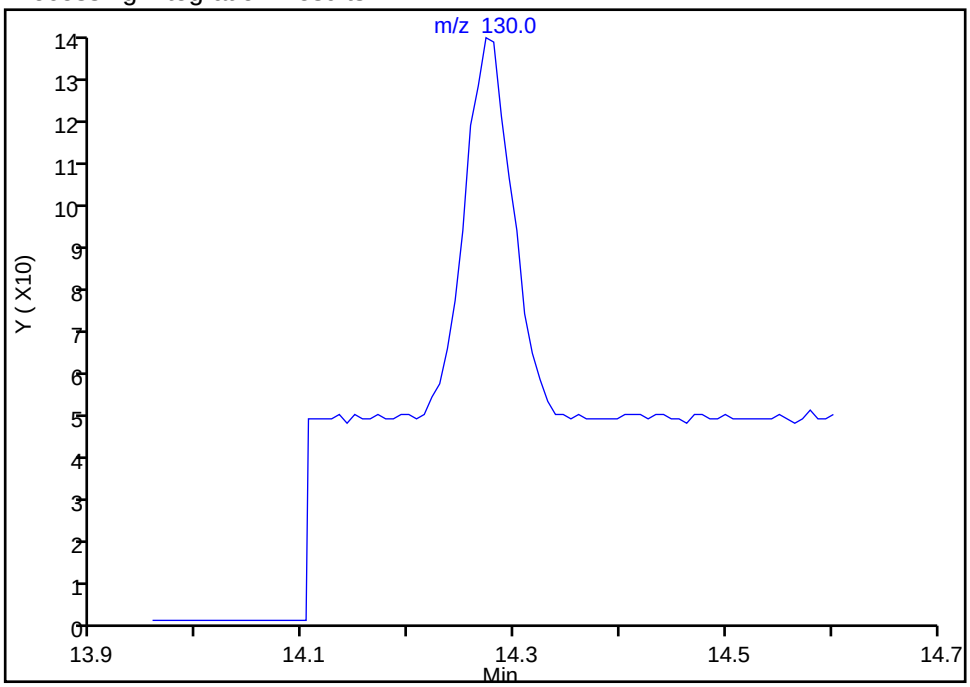
Data File:	\\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041016.D				
Injection Date:	10-Apr-2018 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-15	Lab Sample ID:	320-37345-15		
Client ID:	785IA-1_0318				
Operator ID:	SV	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

40 Trichloroethene, CAS: 79-01-6

Signal: 1

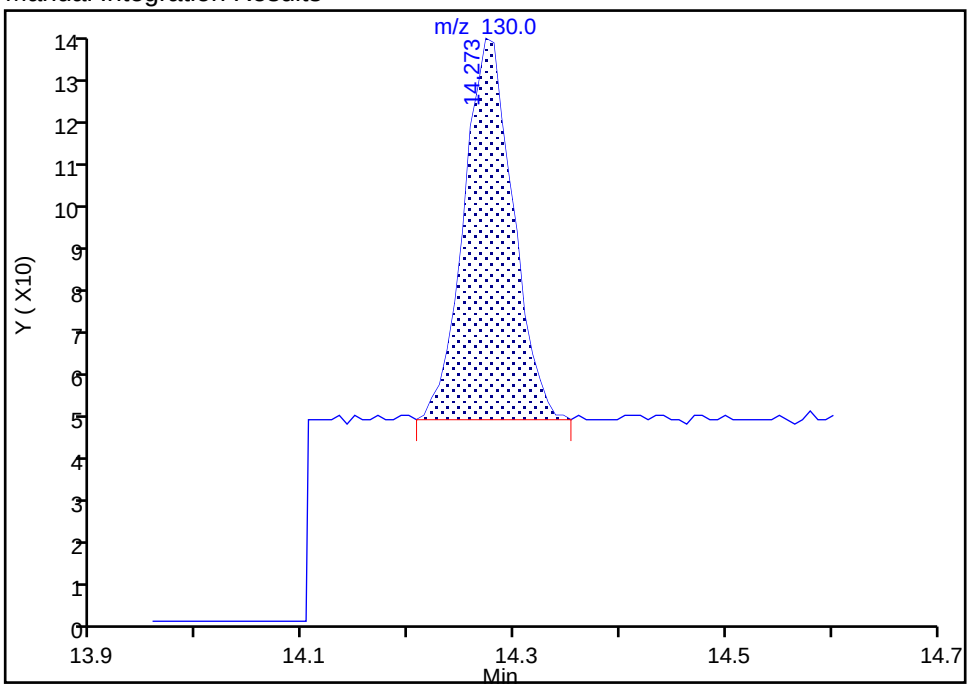
Not Detected
Expected RT: 14.28

Processing Integration Results



Manual Integration Results

RT: 14.27
Area: 279
Amount: 0.005470
Amount Units: ppb v/v



Reviewer: phanthasena, 11-Apr-2018 17:54:52
Audit Action: Assigned Compound ID Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: 786IA-1_0318 Lab Sample ID: 320-37345-19

Matrix: Air Lab File ID: 18041017.D

Analysis Method: TO-15 SIM Date Collected: 03/21/2018 16:25

Sample wt/vol: 865(mL) Date Analyzed: 04/10/2018 23:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.055	U M	0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	0.040	U	0.079	0.040	0.020
71-43-2	Benzene	0.40		0.16	0.064	0.032
56-23-5	Carbon tetrachloride	0.063	U	0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.079	0.040	0.020
75-09-2	Methylene Chloride	0.35	U M	0.69	0.35	0.17
127-18-4	Tetrachloroethene	0.14	U	0.14	0.14	0.068
79-01-6	Trichloroethene	0.035	J	0.11	0.054	0.027
75-01-4	Vinyl chloride	0.026	U	0.051	0.026	0.013

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041017.D
Lims ID: 320-37345-A-19
Client ID: 786IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 23:52:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-19
Misc. Info.: 865
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:58:28 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:58:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	100	54549	2.00	
* 2 1,4-Difluorobenzene	114	13.524	13.530	-0.006	100	240163	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.189	-0.007	100	180264	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	83	106987	1.92	
$ 5 Toluene-d8 (Surr)	100	16.901	16.909	-0.008	100	141049	1.93	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.751	-0.006	100	99993	1.72	
7 Propene	41	3.755	3.755	0.000	86	23211	0.2920	
8 Dichlorodifluoromethane	85	3.815	3.822	-0.007	100	42997	0.3692	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.031	4.038	-0.007	98	930	0.0145	
10 Chloromethane	50	4.187	4.187	0.000	100	36801	0.4702	
13 Bromomethane	94	5.184	5.184	0.000	98	234	0.007617	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	20026	0.2028	
16 Isopropyl alcohol	45	6.548	6.541	0.007	0	11513	0.0548	
18 Acetone	43	6.727	6.742	-0.015	100	207736	1.82	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	5200	0.0605	
26 Hexane	41	9.158	9.158	-0.007	98	4754	0.0530	M
29 2-Butanone (MEK)	72	10.371	10.369	0.002	100	5219	0.3010	
31 Ethyl acetate	43	10.835	10.835	0.015	86	1791	0.009677	7a
32 Chloroform	83	11.110	11.125	-0.015	99	1985	0.0242	
33 Tetrahydrofuran	42	11.586	11.579	0.037	100	605	0.005713	
34 1,1,1-Trichloroethane	97	12.042	12.042	-0.013	100	333	-0.004598	7a
35 Cyclohexane	84	12.248	12.256	-0.008	65	624	0.0132	
37 1,2-Dichloroethane	62	12.742	12.749	-0.007	93	1203	0.0149	
38 Benzene	78	12.879	12.886	-0.007	100	15531	0.1267	
39 n-Heptane	43	13.115	13.130	-0.007	97	4583	0.0263	
40 Trichloroethene	130	14.266	14.273	-0.014	100	327	0.006436	
41 1,2-Dichloropropane	76	14.573	14.573	0.000	96	88	0.004253	
44 4-Methyl-2-pentanone (MIBK	43	15.931	15.931	0.014	100	4387	0.0205	M
46 Toluene	91	17.072	17.080	-0.008	99	16136	0.1142	
55 Ethylbenzene	91	20.463	20.464	-0.001	100	6665	0.0427	
56 m-Xylene & p-Xylene	91	20.650	20.651	-0.001	100	17977	0.1527	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
57 o-Xylene	91	21.545	21.545	0.000	94	7539	0.0648	
61 4-Ethyltoluene	120	23.415	23.415	-0.016	0	2201	0.0540	M
62 1,3,5-Trimethylbenzene	120	23.527	23.527	-0.003	100	3743	0.0630	
63 1,2,4-Trimethylbenzene	120	24.312	24.317	-0.005	97	6935	0.1351	
70 Naphthalene	128	29.700	29.700	0.000	100	805	0.0202	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

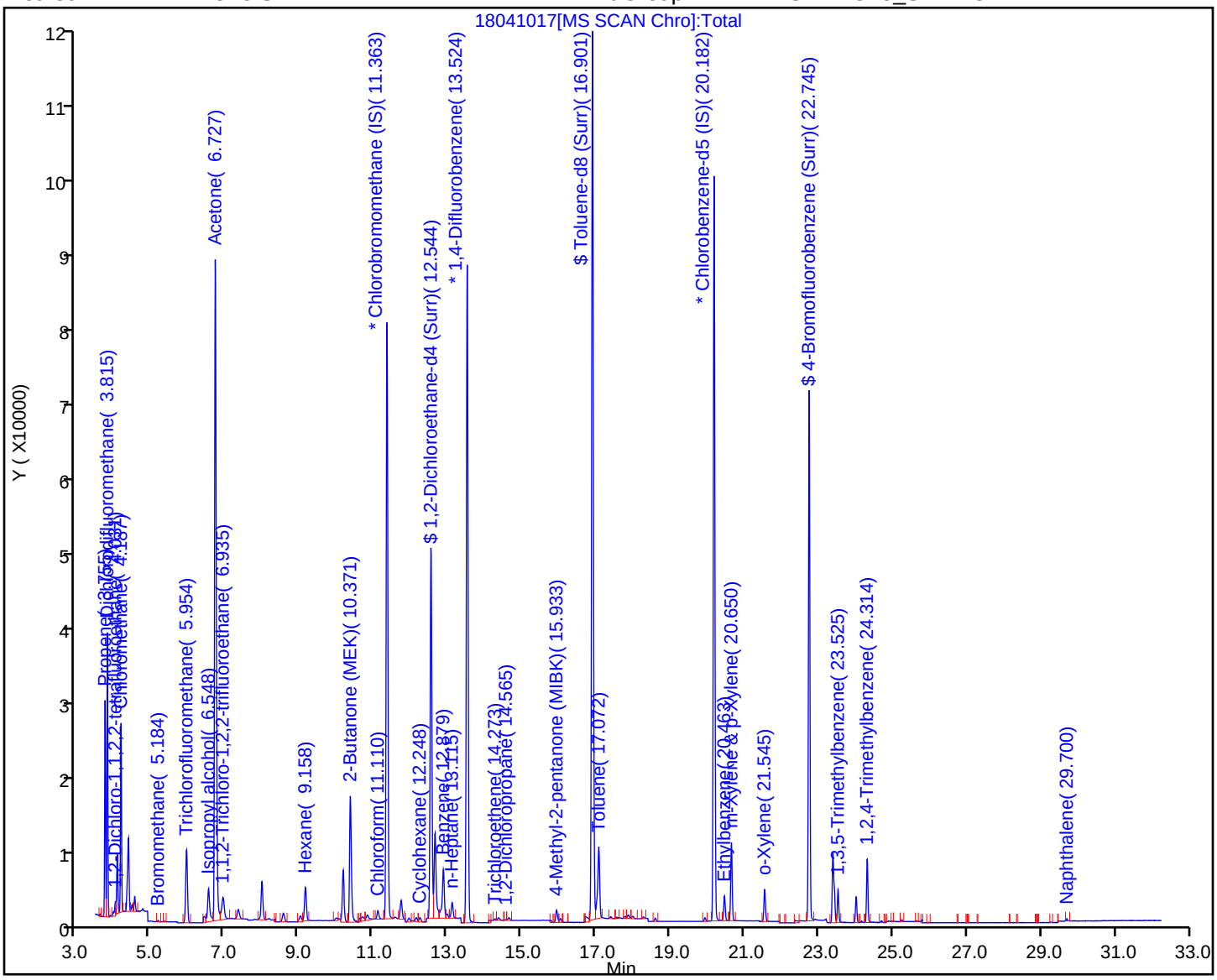
VAMSIS20_00140 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 11-Apr-2018 17:58:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041017.D

Injection Date:	10-Apr-2018 23:52:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-19	Lab Sample ID:	320-37345-19		
Client ID:	786IA-1_0318				
Operator ID:	SV	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041017.D
Lims ID: 320-37345-A-19
Client ID: 786IA-1_0318
Sample Type: Client
Inject. Date: 10-Apr-2018 23:52:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-37345-A-19
Misc. Info.: 865
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:58:28 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:58:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	1.92	96.22
$ 5 Toluene-d8 (Surr)	2.00	1.93	96.54
$ 6 4-Bromofluorobenzene (Surr)	2.00	1.72	86.22

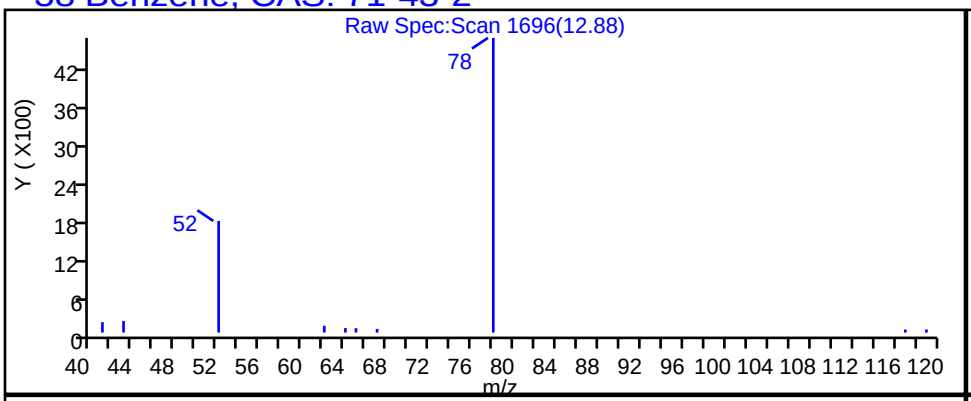
Report Date: 11-Apr-2018 17:58:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

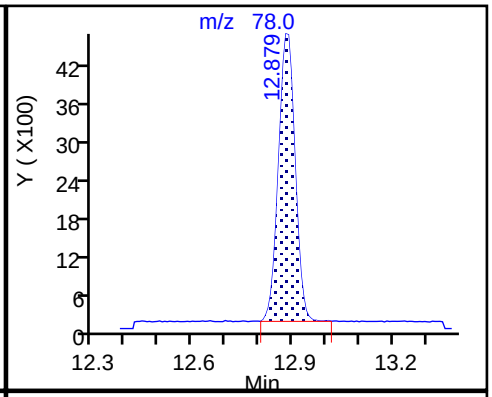
TestAmerica Sacramento

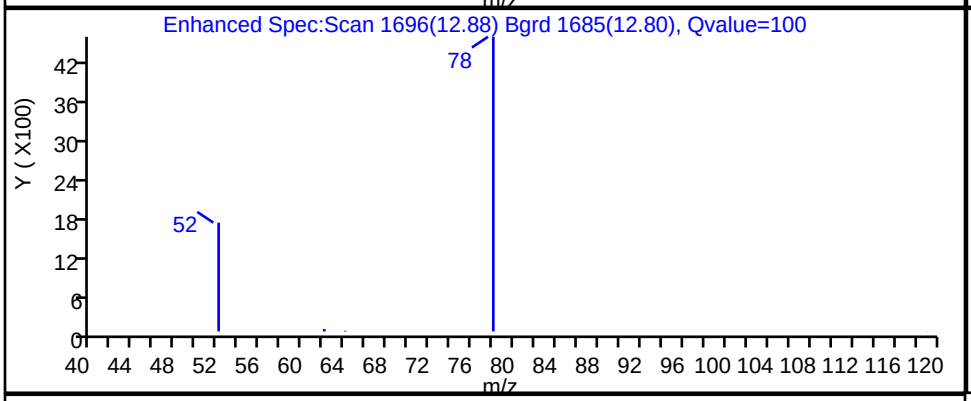
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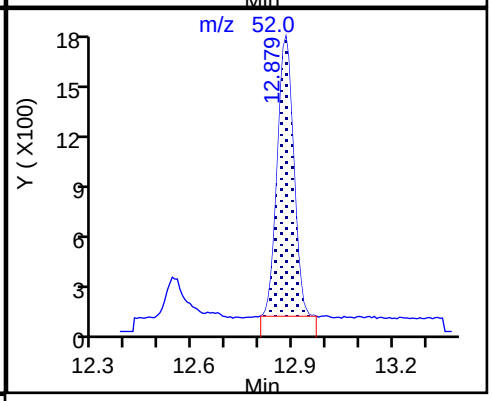
Injection Date:	10-Apr-2018 23:52:30	Instrument ID:	ATMS5
Lims ID:	320-37345-A-19	Lab Sample ID:	320-37345-19
Client ID:	786IA-1_0318		
Operator ID:	SV	ALS Bottle#:	11 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

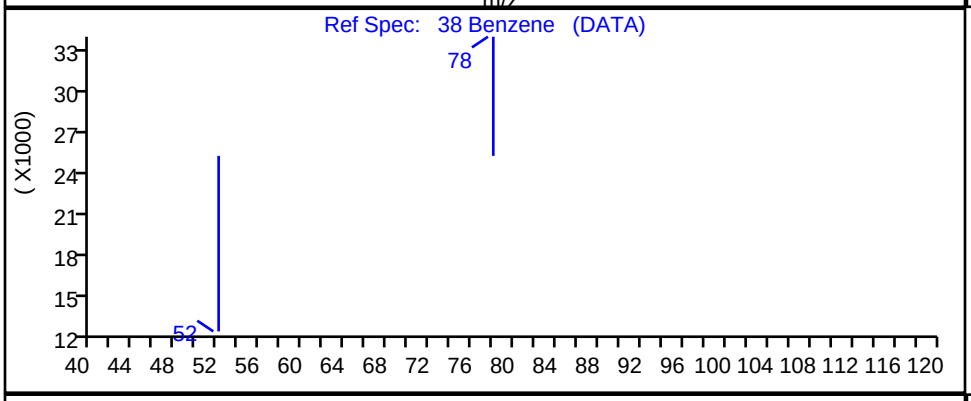
38 Benzene, CAS: 71-43-2

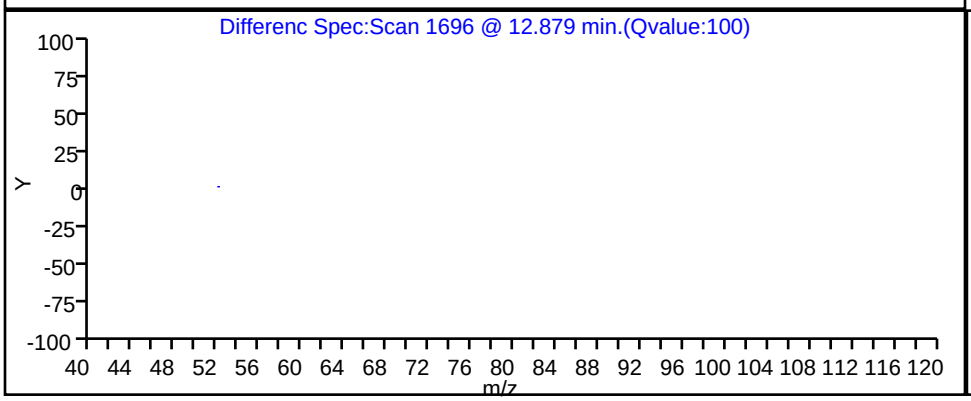


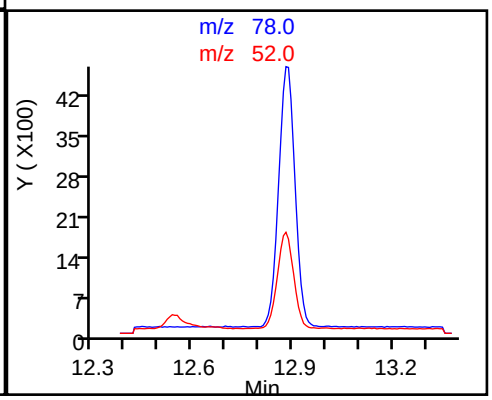












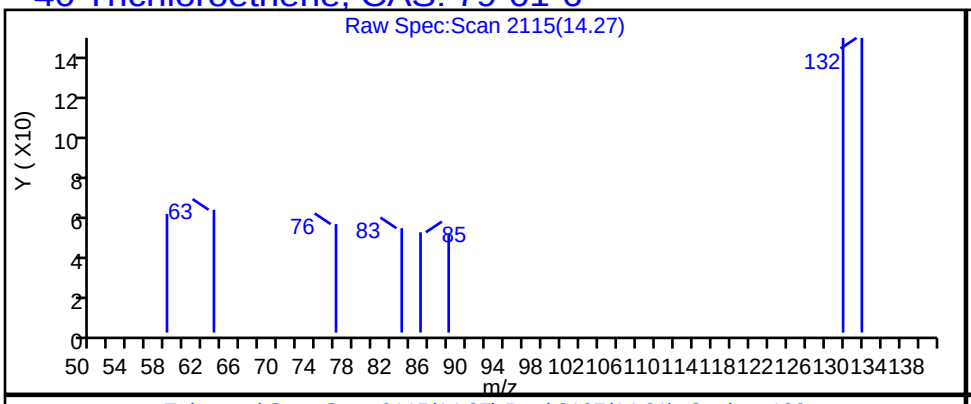
Report Date: 11-Apr-2018 17:58:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

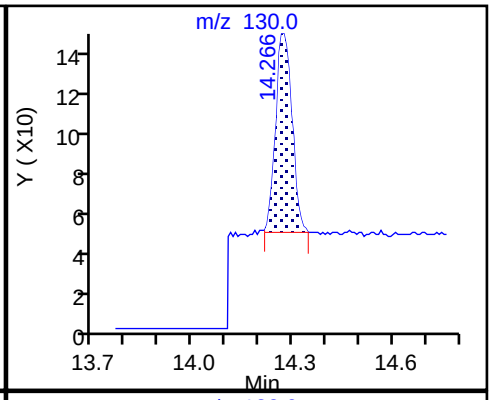
TestAmerica Sacramento

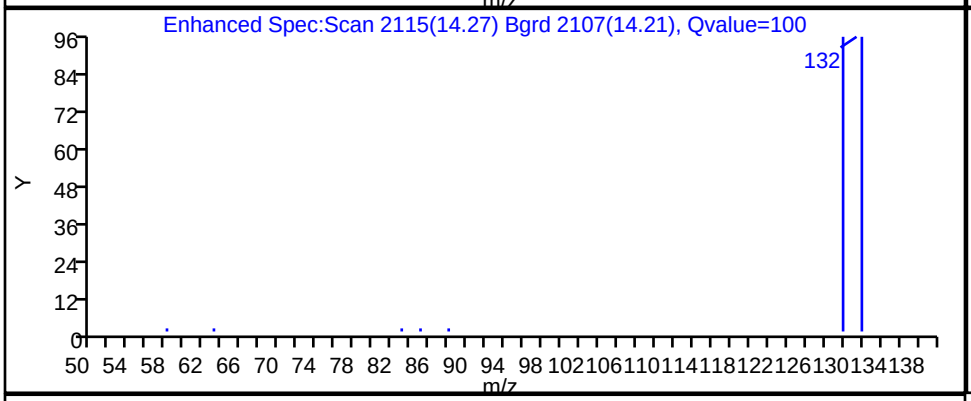
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041017.D

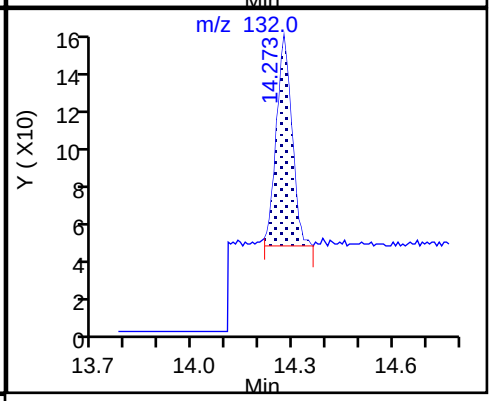
Injection Date:	10-Apr-2018 23:52:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-19	Lab Sample ID:	320-37345-19		
Client ID:	786IA-1_0318				
Operator ID:	SV	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

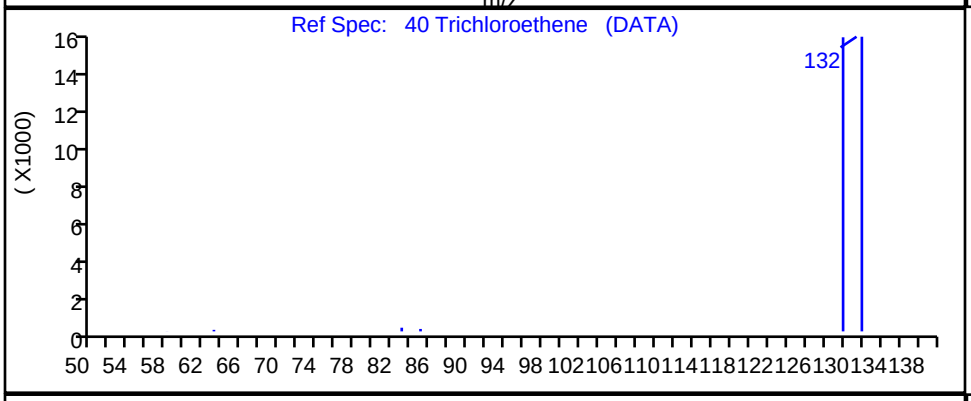
40 Trichloroethene, CAS: 79-01-6

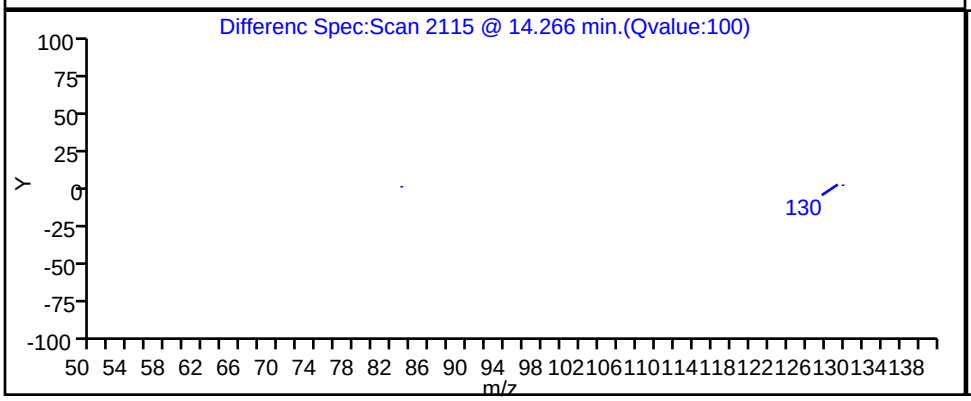


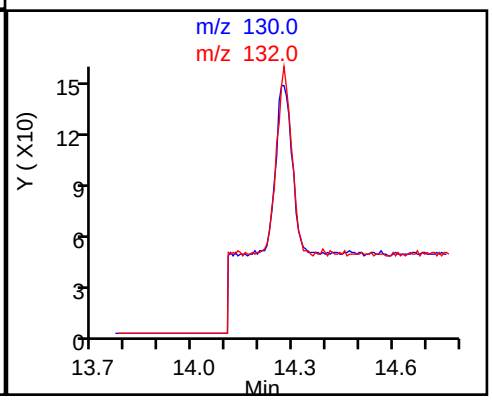












Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041017.D

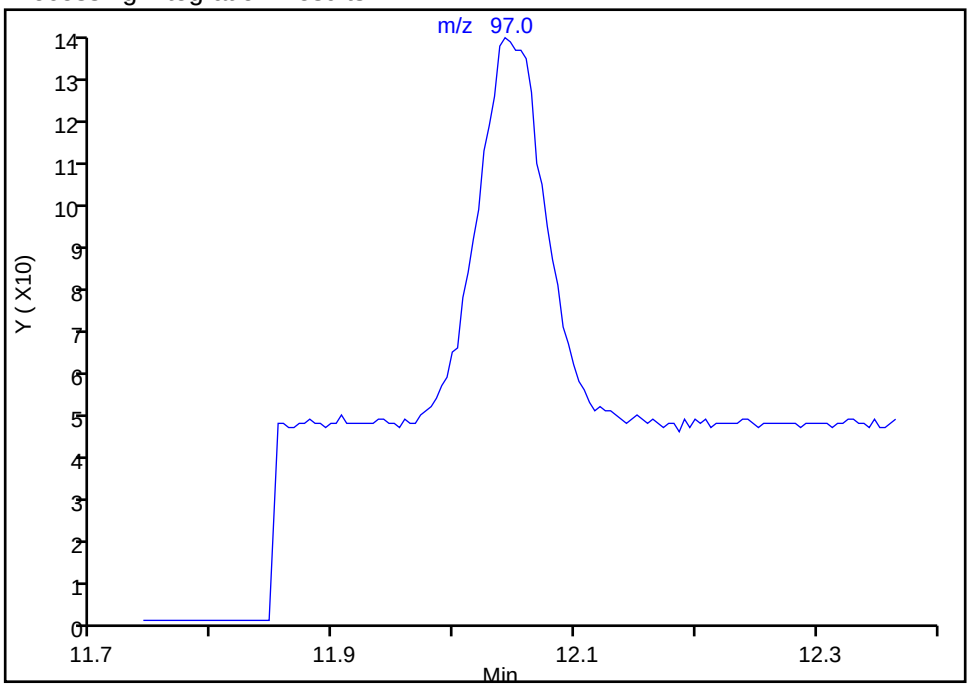
Injection Date:	10-Apr-2018 23:52:30	Instrument ID:	ATMS5
Lims ID:	320-37345-A-19	Lab Sample ID:	320-37345-19
Client ID:	786IA-1_0318		
Operator ID:	SV	ALS Bottle#:	11 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

34 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

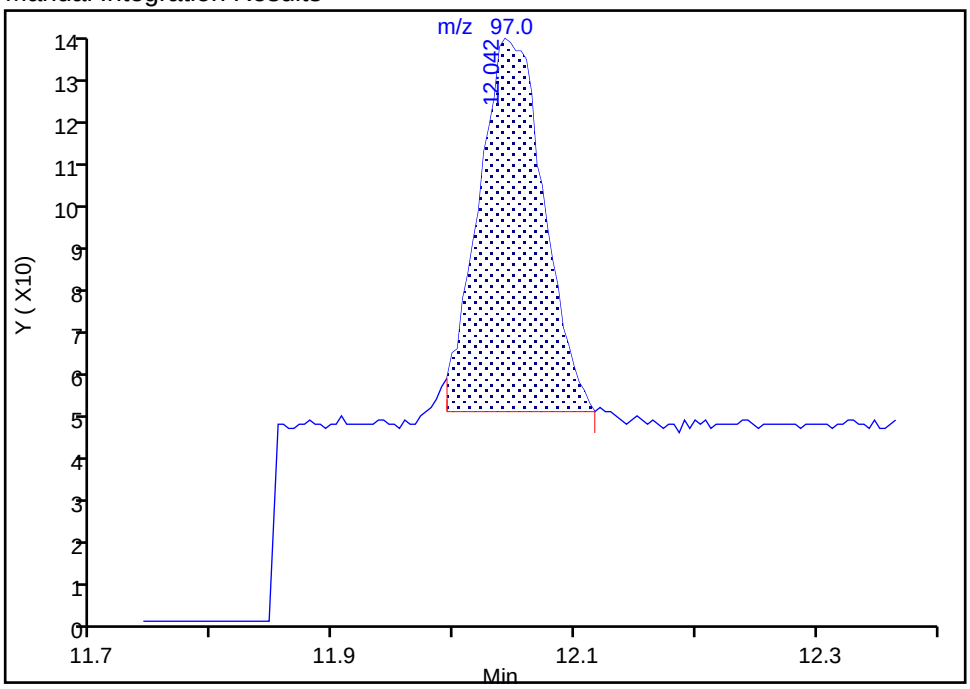
Not Detected
Expected RT: 12.06

Processing Integration Results



Manual Integration Results

RT: 12.04
Area: 333
Amount: -0.004598
Amount Units: ppb v/v



Reviewer: phanthasena, 11-Apr-2018 17:57:31
Audit Action: Assigned Compound ID Audit Reason: Baseline

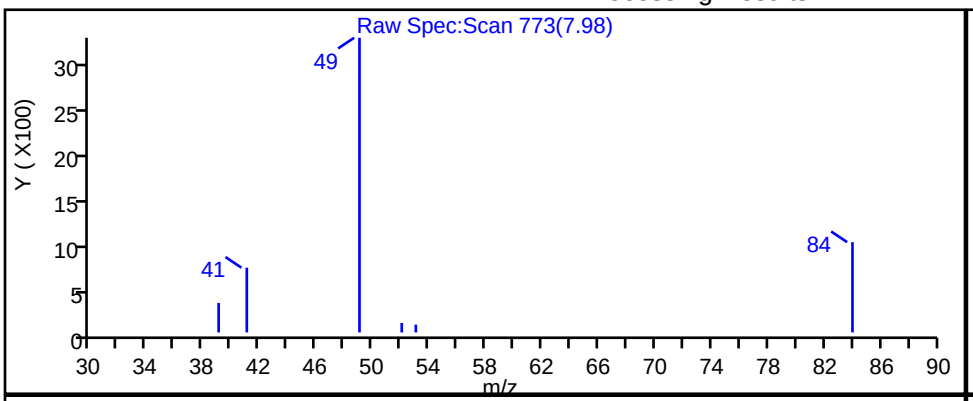
User Disabled Compound Report

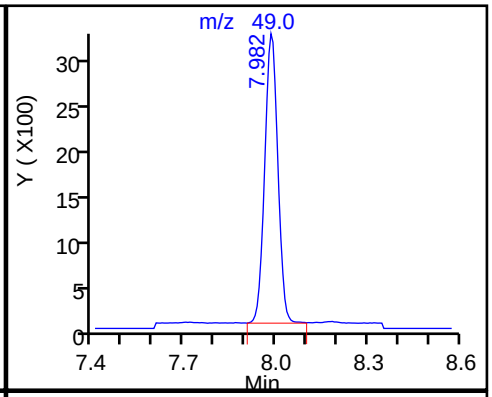
TestAmerica Sacramento

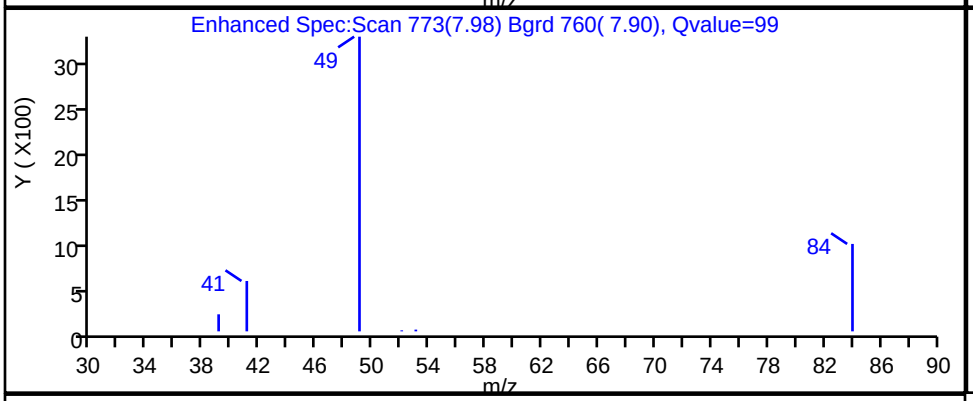
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Injection Date:	10-Apr-2018 23:52:30	Instrument ID:	ATMS5		
Lims ID:	320-37345-A-19	Lab Sample ID:	320-37345-19		
Client ID:	786IA-1_0318				
Operator ID:	SV	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15 SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

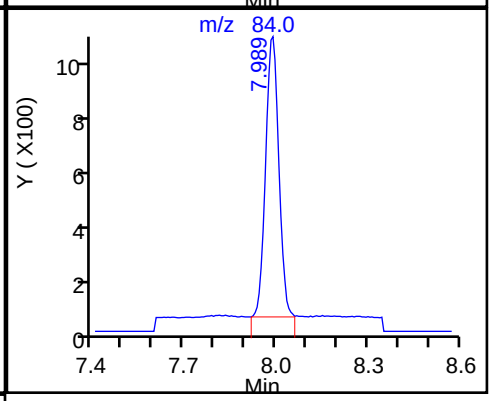
22 Methylene Chloride, CAS: 75-09-2

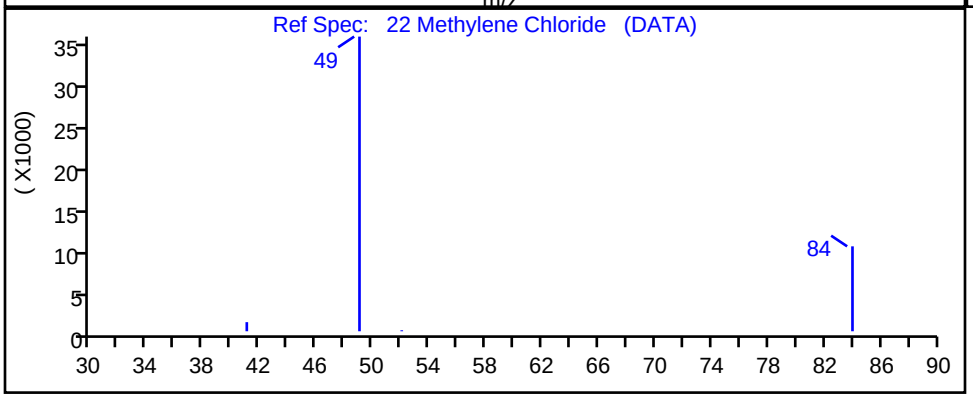
Processing Results











RT	Mass	Response	Amount
7.98	49.00	9706	0.089868
7.99	84.00	2924	

Reviewer: phanthasena, 11-Apr-2018 17:58:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 216538

SDG No.:

Instrument ID: ATMS5 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2018 14:51 Calibration End Date: 04/05/2018 22:36 Calibration ID: 38477

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-216538/2	MS5040502.D
Level 2	IC 320-216538/3	MS5040503.D
Level 3	IC 320-216538/4	MS5040504.D
Level 4	IC 320-216538/5	MS5040505.D
Level 5	IC 320-216538/6	MS5040506.D
Level 6	IC 320-216538/7	MS5040507.D
Level 7	IC 320-216538/8	MS5040508.D
Level 8	ICIS 320-216538/9	MS5040509.D
Level 9	IC 320-216538/10	MS5040510.D
Level 10	IC 320-216538/11	MS5040511.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 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	+++++ 5.4353	+++++ 3.9036	4.6656 3.9730	4.2432 4.0463	4.0254 3.8646	Ave		4.2696				12.6		30.0			
Chloromethane	+++++ 3.6410	+++++ 2.6283	+++++ 2.7232	3.1118 2.6252	2.7736 2.5829	Ave		2.8694				13.4		30.0			
Vinyl chloride	+++++ 2.0393	2.2758 1.5322	1.8075 1.5943	1.6238 1.5367	1.4948 1.5782	Ave		1.7203				15.7		30.0			
Butadiene	+++++ 3.0228	+++++ 2.2163	+++++ 2.2107	2.3446 2.1398	2.1584 2.0911	Ave		2.3120				14.0		30.0			
Chloroethane	+++++ 1.0198	+++++ 0.8465	+++++ 0.8366	0.9228 0.8336	0.8200 0.8290	Ave		0.8726				8.4		30.0			
Trichlorofluoromethane	+++++ 4.5795	+++++ 3.4687	+++++ 3.4391	3.7067 3.4124	3.3775 3.3640	Ave		3.6211				12.1		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 3.2186	6.2437 2.7116	4.1552 2.4466	3.3138 2.5860	2.7932 2.5729	Lin	0.0355	2.5619							1.0000		0.9900
1,1-Dichloroethene	+++++ 1.4538	+++++ 1.1933	1.3376 1.1648	1.2562 1.1595	1.1348 1.1620	Ave		1.2327				9.0		30.0			
Methylene Chloride	+++++ 4.9552	+++++ 4.0016	+++++ 3.5181	+++++ 3.7082	+++++ 3.6161	Ave		3.9598				14.8		30.0			
Methyl tert-butyl ether	+++++ 4.6634	+++++ 3.6759	3.9745 3.5648	3.7067 3.6609	3.4106 3.6629	Ave		3.7900				10.2		30.0			
trans-1,2-Dichloroethene	+++++ 1.3600	+++++ 1.1692	1.2865 1.0970	1.1966 1.1347	1.0905 1.1374	Ave		1.1840				8.0		30.0			
1,1-Dichloroethane	+++++ 4.2533	+++++ 3.4345	3.8129 2.9960	3.5577 3.3194	3.2680 3.2878	Ave		3.4912				11.1		30.0			
cis-1,2-Dichloroethene	+++++ 1.6807	+++++ 1.3391	1.4652 1.1898	1.3875 1.3120	1.2857 1.3075	Ave		1.3709				10.8		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 216538

SDG No.:

Instrument ID: ATMS5 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2018 14:51 Calibration End Date: 04/05/2018 22:36 Calibration ID: 38477

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 9	LVL 5 LVL 10		B	M1	M2								
Chloroform	+++++ 3.6948	+++++ 2.9371	3.3429 2.6037	3.0621 2.8335	2.7888 2.8014	Ave		3.0080				11.8		30.0			
1,1,1-Trichloroethane	+++++ 3.9767	5.4963 3.1841	3.9894 2.7849	3.5544 3.0663	3.1114 3.0296	Lin	0.0261	3.0212							0.9990		0.9900
Carbon tetrachloride	+++++ 0.8446	1.0188 0.6926	0.7725 0.6007	0.7172 0.6611	0.6560 +++++	Lin	0.0057	0.6494							0.9970		0.9900
1,2-Dichloroethane	+++++ 0.8527	+++++ 0.6505	0.7352 0.5841	0.6935 0.6253	0.6315 0.6073	Ave		0.6725				13.0		30.0			
Benzene	+++++ 1.2485	+++++ 0.9789	1.1881 0.8747	1.0648 0.9433	0.9466 0.9217	Ave		1.0208				13.2		30.0			
Trichloroethene	+++++ 0.5360	+++++ 0.4087	0.4630 0.3691	0.4388 0.3937	0.3910 0.3843	Ave		0.4231				13.0		30.0			
1,2-Dichloropropane	+++++ 0.2240	+++++ 0.1693	+++++ 0.1542	0.1763 0.1619	0.1634 0.1570	Ave		0.1723				13.9		30.0			
Bromodichloromethane	+++++ 0.6270	0.7060 0.4787	0.5584 0.4380	0.5048 0.4648	0.4552 0.4550	Ave		0.5209				17.7		30.0			
1,4-Dioxane	+++++ 0.2407	+++++ 0.1764	0.1860 0.1792	0.2136 0.2039	0.1814 0.2019	Ave		0.1979				11.1		30.0			
cis-1,3-Dichloropropene	+++++ 0.7914	+++++ 0.5969	0.6505 0.5629	0.6023 0.6063	0.5469 0.6044	Ave		0.6202				12.2		30.0			
Toluene	+++++ 1.4878	+++++ 1.1345	1.3097 1.0576	1.1850 1.1030	1.0622 1.0752	Ave		1.1769				12.8		30.0			
trans-1,3-Dichloropropene	+++++ 0.7886	+++++ 0.5801	0.6806 0.5501	0.6299 0.5595	0.5777 0.5236	Ave		0.6113				14.2		30.0			
1,1,2-Trichloroethane	+++++ 0.5864	+++++ 0.4308	+++++ 0.4008	0.4745 0.3934	0.4290 0.3656	Ave		0.4401				16.6		30.0			
Tetrachloroethene	+++++ 0.8936	+++++ 0.6549	0.7741 0.5963	0.7211 0.5894	0.6567 0.5448	Ave		0.6789				16.8		30.0			
Dibromochloromethane	+++++ 1.0397	1.1104 0.7678	0.8901 0.7144	0.8269 0.7108	0.7476 0.6623	Ave		0.8300				18.7		30.0			
1,2-Dibromoethane (EDB)	1.1169 0.8359	0.9008 0.6141	0.6979 0.5737	0.6708 +++++	0.5952 +++++	Ave		0.7507				25.0		30.0			
Chlorobenzene	+++++ 1.3106	+++++ 0.9875	1.1609 0.9055	1.0726 0.8953	0.9592 0.8155	Ave		1.0134				15.9		30.0			
Ethylbenzene	+++++ 2.2419	+++++ 1.7186	1.9356 1.5862	1.7916 1.5468	1.6198 1.4052	Ave		1.7307				15.1		30.0			
m-Xylene & p-Xylene	+++++ 1.6811	+++++ 1.2972	1.4501 1.2019	1.3367 1.1826	1.2157 1.0827	Ave		1.3060				14.4		30.0			
o-Xylene	+++++ 1.6503	+++++ 1.2787	1.4639 1.1761	1.3277 1.1712	1.1989 1.0553	Ave		1.2903				14.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 216538

SDG No.:

Instrument ID: ATMS5 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2018 14:51 Calibration End Date: 04/05/2018 22:36 Calibration ID: 38477

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 9	LVL 5 LVL 10		B	M1	M2								
Styrene	+++++ 0.9572	+++++ 0.8038	0.7851 0.7628	0.7732 0.8046	0.6911 0.7488	Ave		0.7908				9.7		30.0			
1,1,2,2-Tetrachloroethane	+++++ 1.0336	+++++ 0.7988	0.9190 0.7291	0.8502 0.7352	0.7606 0.6679	Ave		0.8118				14.6		30.0			
1,2,3-Trichloropropane	+++++ 0.2876	+++++ 0.2214	+++++ 0.2038	0.2457 0.2065	0.2176 0.1909	Ave		0.2248				14.5		30.0			
1,3-Dichlorobenzene	+++++ 0.7690	+++++ 0.6453	+++++ 0.5833	0.6554 0.6379	0.5762 0.5794	Ave		0.6352				10.7		30.0			
1,4-Dichlorobenzene	+++++ 0.6719	+++++ 0.5708	+++++ 0.5224	0.5748 0.5821	0.4990 0.5362	Ave		0.5653				9.9		30.0			
Benzyl chloride	+++++ 0.8008	+++++ 0.6500	0.7043 0.6164	0.7950 0.7604	0.6993 0.7197	Ave		0.7182				9.1		30.0			
1,2-Dichlorobenzene	+++++ 0.6515	+++++ 0.5529	+++++ 0.4881	0.5966 0.5396	0.5220 0.4812	Ave		0.5474				11.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.1968	+++++ 0.1540	0.1870 0.1656	0.2027 0.2139	0.1818 0.2071	Ave		0.1886				11.0		30.0			
Hexachlorobutadiene	+++++ 0.7011	+++++ 0.5373	0.7354 0.5050	0.6711 0.5289	0.5918 0.4861	Ave		0.5946				16.1		30.0			
Naphthalene	+++++ 0.4170	0.6542 0.2914	0.5195 0.3413	0.4875 0.4372	0.4087 0.4316	Ave		0.4432				23.6		30.0			
1,2-Dichloroethane-d4 (Surr)	0.4549 0.4640	0.4600 0.4633	0.4608 0.4621	0.4657 0.4678	0.4650 0.4661	Ave		0.4630				0.8		30.0			
Toluene-d8 (Surr)	0.6644 0.6038	0.5988 0.6041	0.6038 0.5989	0.5993 0.6096	0.5954 0.6057	Ave		0.6084				3.3		30.0			
4-Bromofluorobenzene (Surr)	0.6002 0.6102	0.5951 0.6513	0.6002 0.6690	0.6080 0.7210	0.6029 0.7756	Ave		0.6434				9.6		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 216538

SDG No.:

Instrument ID: ATMS5 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2018 14:51 Calibration End Date: 04/05/2018 22:36 Calibration ID: 38477

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-216538/2	MS5040502.D
Level 2	IC 320-216538/3	MS5040503.D
Level 3	IC 320-216538/4	MS5040504.D
Level 4	IC 320-216538/5	MS5040505.D
Level 5	IC 320-216538/6	MS5040506.D
Level 6	IC 320-216538/7	MS5040507.D
Level 7	IC 320-216538/8	MS5040508.D
Level 8	ICIS 320-216538/9	MS5040509.D
Level 9	IC 320-216538/10	MS5040510.D
Level 10	IC 320-216538/11	MS5040511.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	CBM	Ave	+++++ 25067	+++++ 58872	2194 118035	3844 249810	9258 523017	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Chloromethane	CBM	Ave	+++++ 16792	+++++ 39638	+++++ 80904	2819 162072	6379 349560	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
Vinyl chloride	CBM	Ave	+++++ 9405	542 23108	850 47365	1471 94874	3438 213590	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Butadiene	CBM	Ave	+++++ 13941	+++++ 33425	+++++ 65678	2124 132103	4964 283003	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
Chloroethane	CBM	Ave	+++++ 4703	+++++ 12766	+++++ 24856	836 51462	1886 112192	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
Trichlorofluoromethane	CBM	Ave	+++++ 21120	+++++ 52313	+++++ 102173	3358 210675	7768 455261	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Lin	+++++ 14844	1487 40894	1954 72686	3002 159656	6424 348199	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1-Dichloroethene	CBM	Ave	+++++ 6705	+++++ 17996	629 34604	1138 71583	2610 157259	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Methylene Chloride	CBM	Ave	+++++ 22853	+++++ 60350	+++++ 104518	+++++ 228934	+++++ 489386	+++++ 0.200	+++++ 0.600	+++++ 1.20	+++++ 2.50	+++++ 5.00
Methyl tert-butyl ether	CBM	Ave	+++++ 21507	+++++ 55438	1869 105908	3358 226017	7844 495724	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
trans-1,2-Dichloroethene	CBM	Ave	+++++ 6272	+++++ 17633	605 32592	1084 70053	2508 153936	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1-Dichloroethane	CBM	Ave	+++++ 19616	+++++ 51797	1793 89008	3223 204933	7516 444958	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 7751	+++++ 20196	689 35348	1257 80998	2957 176954	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Chloroform	CBM	Ave	+++++ 17040	+++++ 44296	1572 77354	2774 174935	6414 379127	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 216538

SDG No.:

Instrument ID: ATMS5 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2018 14:51 Calibration End Date: 04/05/2018 22:36 Calibration ID: 38477

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1-Trichloroethane	CBM	Lin	+++++ 18340	1309 48020	1876 82737	3220 189307	7156 410014	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Carbon tetrachloride	DFBZ	Lin	+++++ 16954	1065 46007	1595 78966	2847 181692	6634 +++++	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 +++++
1,2-Dichloroethane	DFBZ	Ave	+++++ 17116	+++++ 43216	1518 76780	2753 171872	6386 370638	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Benzene	DFBZ	Ave	+++++ 25061	+++++ 65028	2453 114975	4227 259277	9572 562491	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Trichloroethene	DFBZ	Ave	+++++ 10759	+++++ 27153	956 48519	1742 108214	3954 234499	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 4496	+++++ 11250	+++++ 20267	700 44500	1652 95798	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
Bromodichloromethane	DFBZ	Ave	+++++ 12585	738 31801	1153 57579	2004 127763	4603 277684	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,4-Dioxane	DFBZ	Ave	+++++ 4831	+++++ 11721	384 23552	848 56050	1834 123225	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 15885	+++++ 39651	1343 73988	2391 166632	5530 368830	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Toluene	DFBZ	Ave	+++++ 29865	+++++ 75368	2704 139020	4704 303174	10741 656152	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	+++++ 13344	+++++ 33198	1179 62856	2079 142191	4792 313132	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,2-Trichloroethane	CBZd 5	Ave	+++++ 9922	+++++ 24650	+++++ 45795	1566 99982	3558 218612	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
Tetrachloroethene	CBZd 5	Ave	+++++ 15120	+++++ 37474	1341 68134	2380 149798	5447 325797	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Dibromochloromethane	CBZd 5	Ave	+++++ 17591	959 43939	1542 81618	2729 180642	6201 396091	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	410 14143	778 35141	1209 65547	2214 +++++	4937 +++++	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 +++++	0.100 +++++
Chlorobenzene	CBZd 5	Ave	+++++ 22176	+++++ 56510	2011 103452	3540 227533	7956 487690	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Ethylbenzene	CBZd 5	Ave	+++++ 37933	+++++ 98345	3353 181234	5913 393122	13435 840381	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
m-Xylene & p-Xylene	CBZd 5	Ave	+++++ 56888	+++++ 148465	5024 274648	8823 601103	20167 1294916	+++++ 0.400	+++++ 1.20	0.0400 2.40	0.0800 5.00	0.200 10.0
o-Xylene	CBZd 5	Ave	+++++ 27923	+++++ 73172	2536 134374	4382 297659	9944 631089	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Styrene	CBZd 5	Ave	+++++ 16196	+++++ 45996	1360 87151	2552 204496	5732 447786	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	+++++ 17489	+++++ 45712	1592 83308	2806 186840	6309 399451	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1 Analy Batch No.: 216538

SDG No.:

Instrument ID: ATMS5 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2018 14:51 Calibration End Date: 04/05/2018 22:36 Calibration ID: 38477

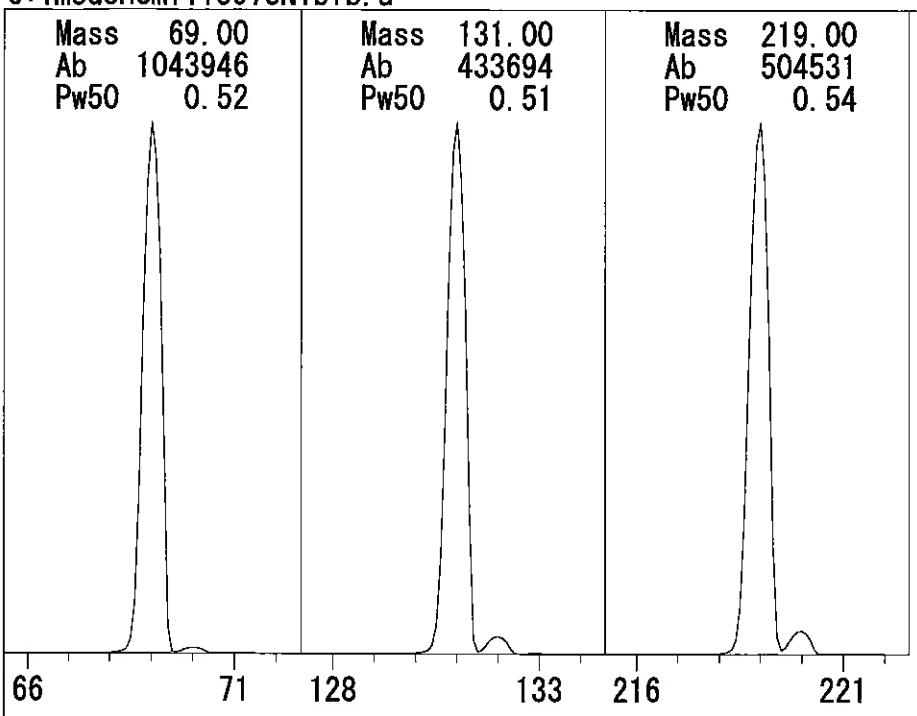
ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2,3-Trichloropropane	CBZd5	Ave	+++++ 4866	+++++ 12672	+++++ 23282	811 52476	1805 114156	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
1,3-Dichlorobenzene	CBZd5	Ave	+++++ 13011	+++++ 36930	+++++ 66648	2163 162128	4779 346524	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
1,4-Dichlorobenzene	CBZd5	Ave	+++++ 11369	+++++ 32664	+++++ 59691	1897 147927	4139 320665	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
Benzyl chloride	CBZd5	Ave	+++++ 10840	+++++ 29755	976 56344	2099 154609	4640 344344	+++++ 0.160	+++++ 0.480	0.0160 0.960	0.0320 2.00	0.0800 4.00
1,2-Dichlorobenzene	CBZd5	Ave	+++++ 11023	+++++ 31641	+++++ 55772	1969 137133	4330 287792	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
1,2,4-Trichlorobenzene	CBZd5	Ave	+++++ 3330	+++++ 8810	324 18915	669 54369	1508 123839	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Hexachlorobutadiene	CBZd5	Ave	+++++ 11863	+++++ 30749	1274 57695	2215 134425	4909 290710	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Naphthalene	CBZd5	Ave	+++++ 7055	565 16677	900 38994	1609 111115	3390 258132	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloroethane-d4 (Surr)	DFBZ	Ave	71545 93142	96165 102592	95145 101232	92440 102850	94035 113780	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00
Toluene-d8 (Surr)	DFBZ	Ave	104507 121195	125194 133769	124663 131199	118949 134043	120416 147844	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00
4-Bromofluorobenzene (Surr)	CBZd5	Ave	88124 103242	102788 124242	103978 127398	100339 146591	100020 185524	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

Thu Apr 05 13:35:55 2018
C:¥msdchem¥1¥5973N¥bfb.u

Instrument: ATMS5
US33220083

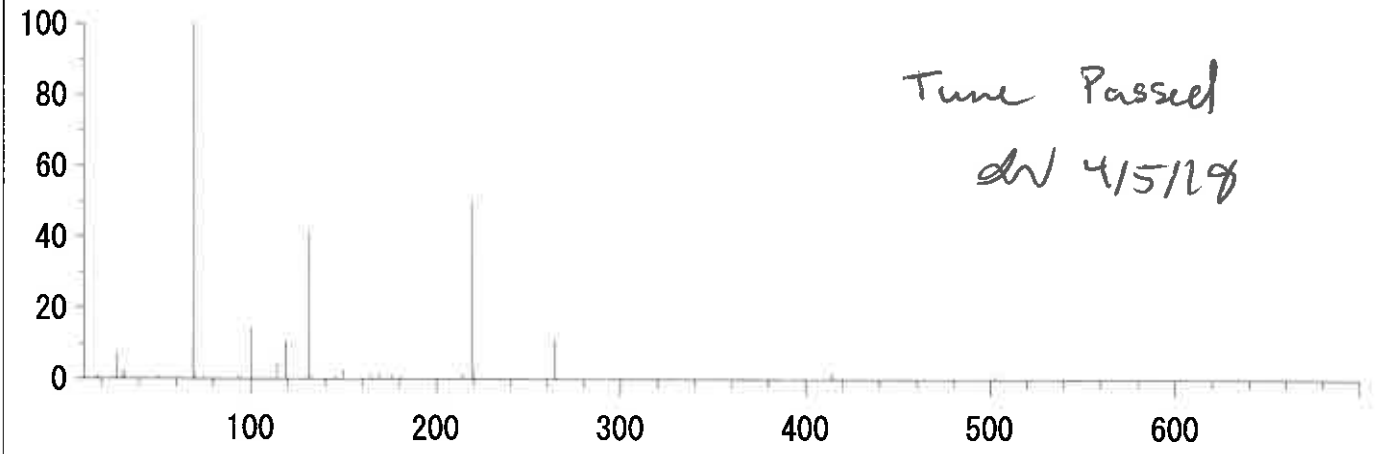


Ion Pol	Pos	MassGain	157
		MassOffs	-11
Emission	34.6	AmuGain	2125
EIEnrgy	69.9	AmuOffs	135
Filament	1	Wid219	-0.008
		DC Pol	Pos
Repeller	27.78		
IonFcus	67.4	HEDEnab	On
EntLens	0.0	EMVolts	1459
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
108 peaks Base: 69.00 Abundance: 760896



Tune Passed
dN 4/5/18

Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	760896	100.00	70.00	8276	1.09
131.00	317312	41.70	132.00	10197	3.21
219.00	381056	50.08	220.00	16632	4.36

Air/Water Check: H2O~1.05% N2~7.35% O2~2.46% CO2~0.22% N2/H2O~696.96%

Column(1) Flow: 1.498 Column(2): 0 ml/min. Interface Temp: 240

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 219; EM Gain 133361
Repeller Maximum 28 volts using ion 131; Gain Factor 1.33

MassGain Values(Samples):	159(3)	159(2)	159(1)	159(0)	157(FS)		
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	135.0	135.0	135.0	135.0	135.0	135.0	135.0
Entrance Lens Offset:	15.8	11.3	11.5	12.5	13.3	14.1	14.1
Target Abund(%):	1.0	100.0	45.0	55.0	2.4	2.0	
Actual Tune Abund(%):	1.2	100.0	41.7	50.1	1.7	1.1	

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040502.D
Lims ID: IC 0.005ppbv
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Apr-2018 14:51:30 ALS Bottle#: 4 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.005ppbv (0.1ppbv)
Misc. Info.: 25ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:25 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	38623	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.524	13.526	-0.002	100	157292	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	146836	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	78	71545	2.00	1.96	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	104507	2.00	2.18	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	99	88124	2.00	1.87	
7 Propene	41	3.763	3.763	0.000	96	956	0.005000	0.0170	
8 Dichlorodifluoromethane	85	3.815	3.822	-0.007	99	797	0.005000	0.009666	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.031	4.038	-0.007	98	435	0.005000	0.009599	
10 Chloromethane	50	4.187	4.194	-0.007	99	721	0.005000	0.0130	
11 Vinyl chloride	62	4.418	4.418	0.000	62	296	0.005000	0.008910	
12 Butadiene	39	4.485	4.492	-0.007	97	437	0.005000	0.009788	
13 Bromomethane	94	5.180	5.189	-0.009	94	221	0.005000	0.0102	
14 Chloroethane	64	5.359	5.368	-0.009	99	152	0.005000	0.009020	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	669	0.005000	0.009567	
16 Isopropyl alcohol	45	6.563	6.526	0.037	99	1566	0.005000	0.0105	
17 Acrolein	56	6.600	6.593	0.007	91	214	0.005000	0.0100	
18 Acetone	43	6.757	6.734	0.023	100	2708	0.005000	-0.0146	
19 1,1,2-Trichloro-1,2,2-trif	101	6.935	6.950	-0.015	95	938	0.005000	0.005087	
20 1,1-Dichloroethene	96	7.121	7.129	-0.008	98	212	0.005000	0.008905	
21 Acetonitrile	41	7.820	7.826	-0.006	100	673	0.005000	0.008238	
22 Methylene Chloride	49	7.983	7.989	-0.006	100	2329	0.005000	0.0305	
23 Acrylonitrile	53	8.119	8.112	0.007	98	315	0.005000	0.007122	
24 Methyl tert-butyl ether	73	8.598	8.563	0.035	100	626	0.005000	0.008553	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	197	0.005000	0.008616	
26 Hexane	41	9.165	9.165	0.000	97	584	0.005000	0.009195	
28 1,1-Dichloroethane	63	9.516	9.529	-0.013	91	484	0.005000	0.007179	
30 cis-1,2-Dichloroethene	96	10.760	10.768	-0.008	89	198	0.005000	0.007479	
31 Ethyl acetate	43	10.842	10.812	0.030	98	1125	0.005000	0.008585	
32 Chloroform	83	11.110	11.117	-0.007	99	408	0.005000	0.007024	
33 Tetrahydrofuran	42	11.579	11.541	0.038	98	678	0.005000	0.009043	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1,1-Trichloroethane	97	12.047	12.051	-0.004	98	612	0.005000	0.001851	
35 Cyclohexane	84	12.256	12.256	0.000	99	303	0.005000	0.009043	
36 Carbon tetrachloride	117	12.628	12.628	0.000	34	475	0.005000	0.000596	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	93	425	0.005000	0.008035	
38 Benzene	78	12.879	12.886	-0.007	99	793	0.005000	0.009877	
39 n-Heptane	43	13.122	13.122	0.000	100	1076	0.005000	0.009434	
40 Trichloroethene	130	14.273	14.273	0.000	97	294	0.005000	0.008836	
41 1,2-Dichloropropane	76	14.565	14.565	0.000	100	126	0.005000	0.009298	
42 Dichlorobromomethane	85	15.026	15.018	0.008	79	371	0.005000	0.009056	
43 1,4-Dioxane	88	15.092	15.048	0.044	33	127	0.005000	0.008160	
44 4-Methyl-2-pentanone (MIBK	43	15.944	15.913	0.031	99	1094	0.005000	0.007810	
45 cis-1,3-Dichloropropene	75	16.264	16.262	0.002	100	411	0.005000	0.008427	
46 Toluene	91	17.073	17.072	0.000	97	843	0.005000	0.009108	
47 trans-1,3-Dichloropropene	75	17.359	17.350	0.009	97	368	0.005000	0.008200	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	96	304	0.005000	0.009409	
49 2-Hexanone	58	17.874	17.849	0.025	99	327	0.005000	0.007814	
50 Tetrachloroethene	166	18.600	18.600	0.000	98	437	0.005000	0.008768	
51 Chlorodibromomethane	129	18.789	18.782	0.007	98	488	0.005000	0.008008	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	410	0.005000	0.007439	
53 Chlorobenzene	112	20.270	20.259	0.011	51	664	0.005000	0.008925	
55 Ethylbenzene	91	20.463	20.462	0.001	100	1129	0.005000	0.008885	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	100	1757	0.0100	0.0183	
57 o-Xylene	91	21.545	21.545	0.000	98	865	0.005000	0.009131	
58 Styrene	104	21.576	21.571	0.005	93	495	0.005000	0.008526	
59 Bromoform	173	22.092	22.092	0.000	98	398	0.005000	0.008526	
54 1,1,2,2-Tetrachloroethane	83	22.525	22.519	0.006	100	518	0.005000	0.008691	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	43	156	0.005000	0.009453	
62 1,3,5-Trimethylbenzene	120	23.532	23.527	0.005	98	429	0.005000	0.008863	
63 1,2,4-Trimethylbenzene	120	24.321	24.312	0.009	99	355	0.005000	0.008488	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	100	454	0.005000	0.009735	
65 1,4-Dichlorobenzene	146	25.254	25.245	0.009	99	396	0.005000	0.009541	
66 Benzyl chloride	91	25.411	25.411	0.000	99	317	0.004000	0.006012	
67 1,2-Dichlorobenzene	146	25.966	25.963	0.003	100	412	0.005000	0.0103	
68 1,2,4-Trichlorobenzene	180	29.274	29.271	0.003	100	136	0.005000	0.009821	
69 Hexachlorobutadiene	225	29.660	29.656	0.004	100	488	0.005000	0.0112	
70 Naphthalene	128	29.700	29.699	0.001	1	356	0.005000	0.0109	

Reagents:

VACORPIC0.1_00060	Amount Added: 25.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:26 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040502.D

Injection Date: 05-Apr-2018 14:51:30 Instrument ID: ATMS5

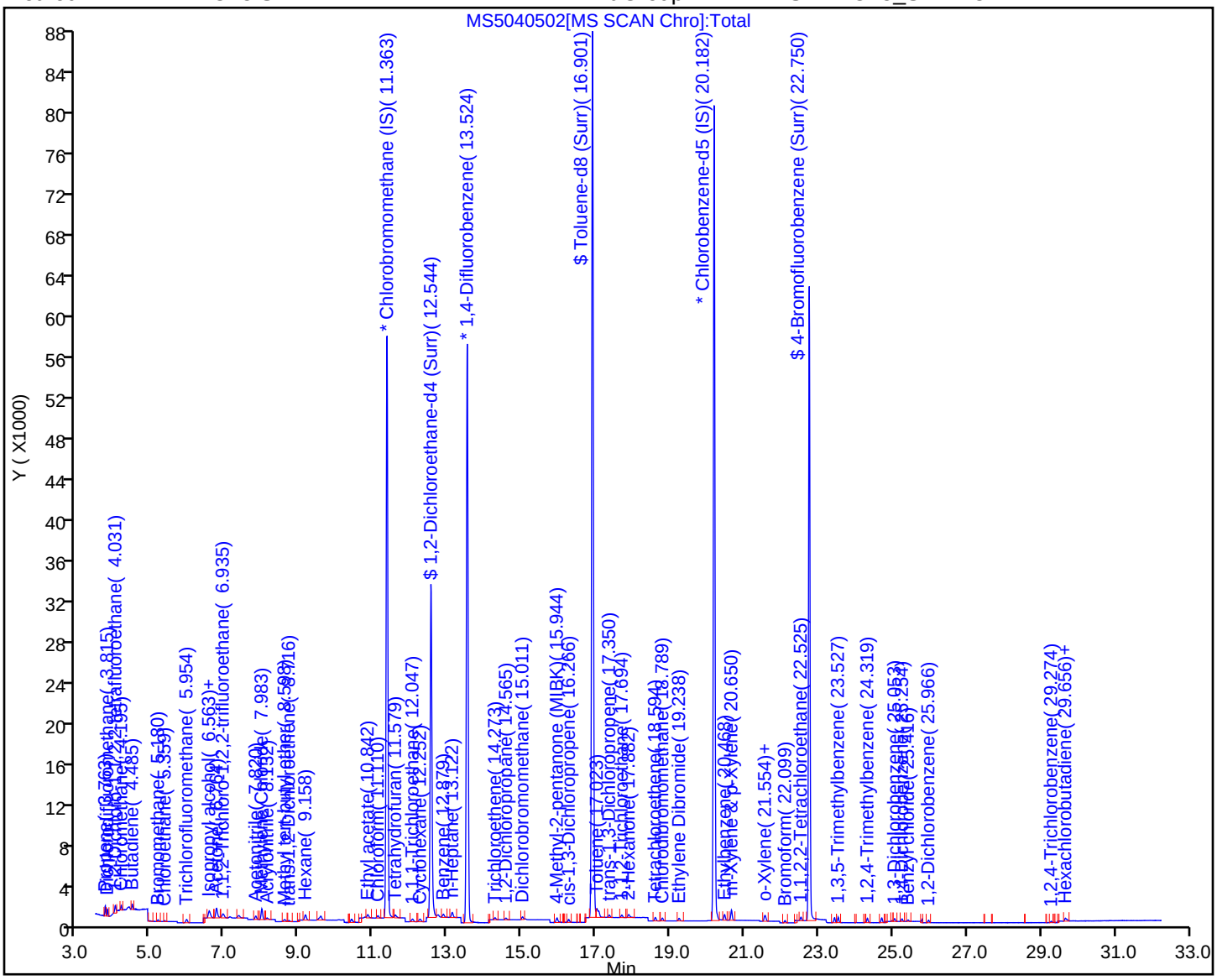
Lims ID: IC 0.005ppbv

Client ID:

Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040503.D
Lims ID: IC 0.01ppbv
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Apr-2018 15:44:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.01ppbv (0.1ppbv)
Misc. Info.: 50ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:27 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 05-Apr-2018 16:29:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	47632	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.523	13.526	-0.003	100	209063	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	172734	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	78	96165	2.00	1.99	
$ 5 Toluene-d8 (Surr)	100	16.900	16.901	-0.001	100	125194	2.00	1.97	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	99	102788	2.00	1.85	
7 Propene	41	3.763	3.763	0.000	97	1397	0.0100	0.0201	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	100	1363	0.0100	0.0134	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	97	790	0.0100	0.0141	
10 Chloromethane	50	4.187	4.194	-0.007	100	1091	0.0100	0.0160	
11 Vinyl chloride	62	4.418	4.418	0.000	62	542	0.0100	0.0132	
12 Butadiene	39	4.492	4.492	0.000	98	776	0.0100	0.0141	
13 Bromomethane	94	5.184	5.189	-0.005	95	368	0.0100	0.0137	
14 Chloroethane	64	5.359	5.368	-0.009	100	296	0.0100	0.0142	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	99	1182	0.0100	0.0137	
16 Isopropyl alcohol	45	6.563	6.526	0.037	98	2683	0.0100	0.0146	M
17 Acrolein	56	6.600	6.593	0.007	95	363	0.0100	0.0138	
18 Acetone	43	6.756	6.734	0.022	100	2808	0.0100	-0.0201	
19 1,1,2-Trichloro-1,2,2-trif	101	6.942	6.950	-0.008	100	1487	0.0100	0.0105	
20 1,1-Dichloroethene	96	7.121	7.129	-0.008	100	395	0.0100	0.0135	
21 Acetonitrile	41	7.826	7.826	0.000	100	1379	0.0100	0.0137	a
22 Methylene Chloride	49	7.982	7.989	-0.007	100	3171	0.0100	0.0336	
23 Acrylonitrile	53	8.125	8.112	0.013	99	660	0.0100	0.0121	
24 Methyl tert-butyl ether	73	8.598	8.563	0.035	99	1159	0.0100	0.0128	
25 trans-1,2-Dichloroethene	96	8.712	8.720	-0.008	100	398	0.0100	0.0141	
26 Hexane	41	9.158	9.165	-0.007	98	1185	0.0100	0.0151	
28 1,1-Dichloroethane	63	9.522	9.529	-0.007	93	1169	0.0100	0.0141	
27 Vinyl acetate	43	9.574	9.568	0.006	75	2576	0.0100	0.0120	
29 2-Butanone (MEK)	72	10.400	10.367	0.033	100	167	0.0100	0.0110	Ma
30 cis-1,2-Dichloroethene	96	10.760	10.768	-0.008	66	442	0.0100	0.0135	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.834	10.812	0.022	98	1968	0.0100	0.0122	
32 Chloroform	83	11.110	11.117	-0.007	100	984	0.0100	0.0137	
33 Tetrahydrofuran	42	11.586	11.541	0.045	97	1260	0.0100	0.0136	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	1309	0.0100	0.009554	
35 Cyclohexane	84	12.256	12.256	0.000	100	613	0.0100	0.0148	
36 Carbon tetrachloride	117	12.620	12.628	-0.008	55	1065	0.0100	0.006985	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	92	989	0.0100	0.0141	
38 Benzene	78	12.886	12.886	0.000	99	1633	0.0100	0.0153	
39 n-Heptane	43	13.122	13.122	0.000	99	2141	0.0100	0.0141	
40 Trichloroethene	130	14.273	14.273	0.000	100	634	0.0100	0.0143	
41 1,2-Dichloropropane	76	14.565	14.565	0.000	100	285	0.0100	0.0158	
42 Dichlorobromomethane	85	15.018	15.018	0.000	66	738	0.0100	0.0136	
43 1,4-Dioxane	88	15.084	15.048	0.036	37	257	0.0100	0.0124	
44 4-Methyl-2-pentanone (MIBK	43	15.935	15.913	0.022	100	2129	0.0100	0.0114	a
45 cis-1,3-Dichloropropene	75	16.264	16.262	0.002	100	816	0.0100	0.0126	
46 Toluene	91	17.080	17.072	0.008	98	1706	0.0100	0.0139	
47 trans-1,3-Dichloropropene	75	17.358	17.350	0.008	95	735	0.0100	0.0139	
48 1,1,2-Trichloroethane	97	17.693	17.694	-0.001	98	550	0.0100	0.0145	
49 2-Hexanone	58	17.881	17.849	0.032	99	511	0.0100	0.0104	
50 Tetrachloroethene	166	18.600	18.600	0.000	99	840	0.0100	0.0143	
51 Chlorodibromomethane	129	18.789	18.782	0.007	100	959	0.0100	0.0134	
52 Ethylene Dibromide	107	19.238	19.238	0.000	97	778	0.0100	0.0120	
53 Chlorobenzene	112	20.264	20.259	0.005	51	1259	0.0100	0.0144	
55 Ethylbenzene	91	20.468	20.462	0.006	100	2107	0.0100	0.0141	
56 m-Xylene & p-Xylene	91	20.649	20.650	-0.001	100	3152	0.0200	0.0279	
57 o-Xylene	91	21.549	21.545	0.004	99	1626	0.0100	0.0146	
58 Styrene	104	21.575	21.571	0.004	96	879	0.0100	0.0129	
59 Bromoform	173	22.101	22.092	0.009	99	755	0.0100	0.0137	
54 1,1,2,2-Tetrachloroethane	83	22.524	22.519	0.005	99	996	0.0100	0.0142	
60 1,2,3-Trichloropropane	110	22.827	22.822	0.005	54	286	0.0100	0.0147	
61 4-Ethyltoluene	120	23.431	23.428	0.003	100	479	0.0100	0.0123	
62 1,3,5-Trimethylbenzene	120	23.531	23.527	0.004	100	783	0.0100	0.0138	
63 1,2,4-Trimethylbenzene	120	24.318	24.312	0.006	99	638	0.0100	0.0130	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	99	774	0.0100	0.0141	
65 1,4-Dichlorobenzene	146	25.254	25.245	0.009	100	664	0.0100	0.0136	
66 Benzyl chloride	91	25.415	25.411	0.004	100	586	0.008000	0.009447	
67 1,2-Dichlorobenzene	146	25.965	25.963	0.002	100	715	0.0100	0.0151	
68 1,2,4-Trichlorobenzene	180	29.271	29.271	0.000	98	201	0.0100	0.0123	
69 Hexachlorobutadiene	225	29.660	29.656	0.004	98	810	0.0100	0.0158	
70 Naphthalene	128	29.704	29.699	0.005	1	565	0.0100	0.0148	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC0.1_00060	Amount Added: 50.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040503.D

Injection Date: 05-Apr-2018 15:44:30 Instrument ID: ATMS5

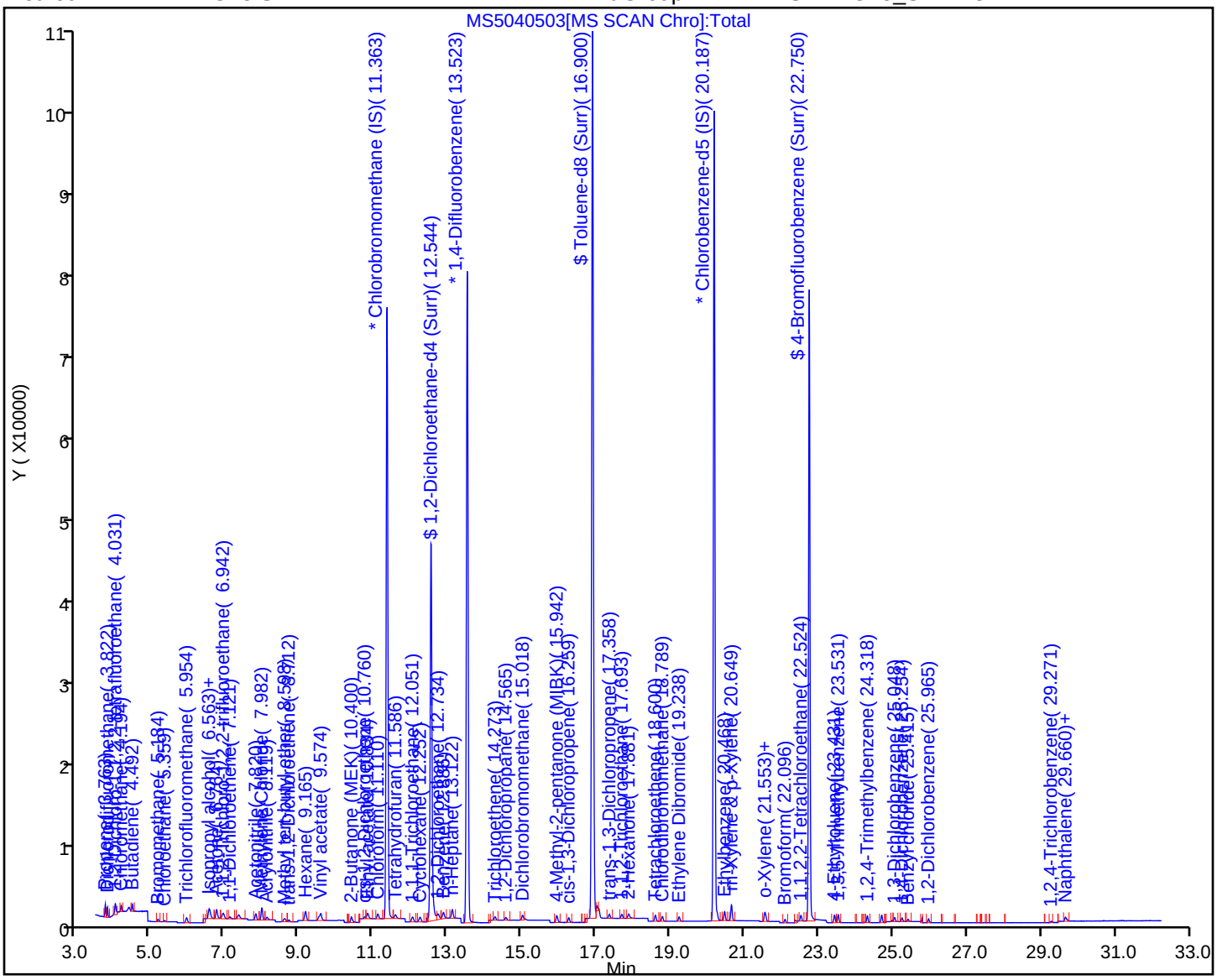
Lims ID: IC 0.01ppbv

Client ID:

Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

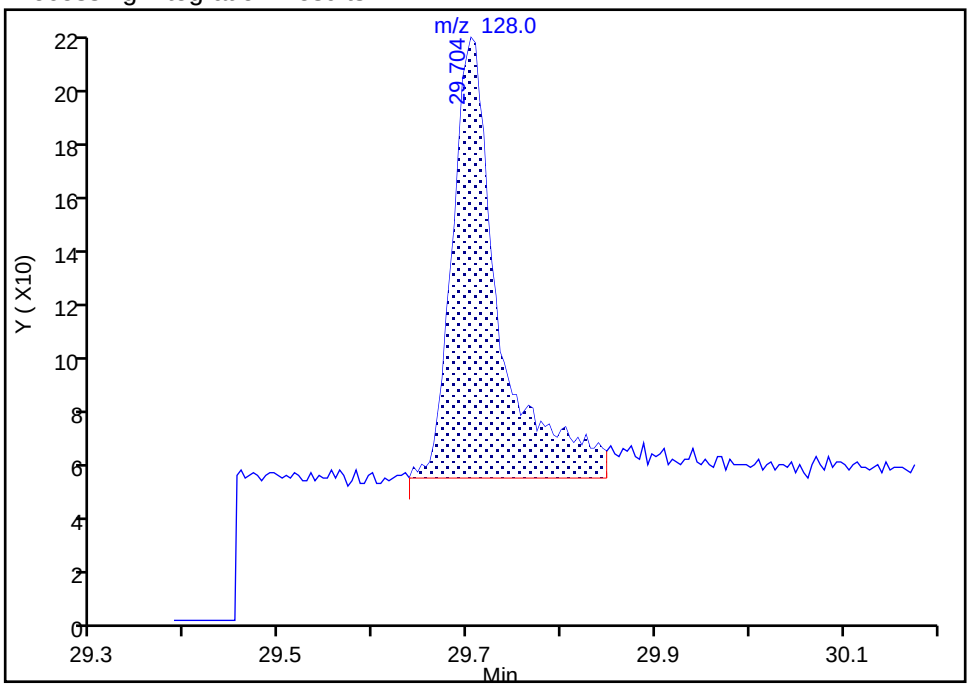
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Injection Date: 05-Apr-2018 15:44:30 Instrument ID: ATMS5
Lims ID: IC 0.01ppbv
Client ID:
Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

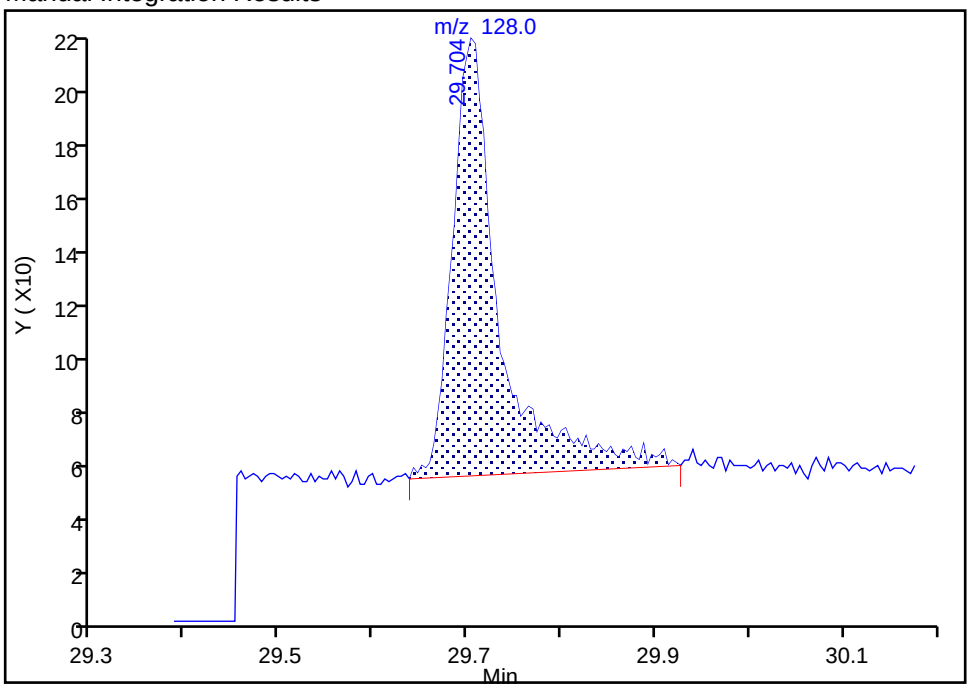
Processing Integration Results

RT: 29.70
Area: 568
Amount: 0.015014
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 565
Amount: 0.014762
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:28:53
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040504.D
Lims ID: IC 0.02ppbv
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Apr-2018 16:36:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.02ppbv (0.1ppbv)
Misc. Info.: 100ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:29 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:47:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	47025	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.524	13.526	-0.002	100	206465	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	173232	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	78	95145	2.00	1.99	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	124663	2.00	1.98	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	99	103978	2.00	1.87	
7 Propene	41	3.763	3.763	0.000	99	1923	0.0200	0.0281	
8 Dichlorodifluoromethane	85	3.815	3.822	-0.007	99	2194	0.0200	0.0219	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.031	4.038	-0.007	97	1219	0.0200	0.0221	
10 Chloromethane	50	4.187	4.194	-0.007	100	1724	0.0200	0.0256	
11 Vinyl chloride	62	4.418	4.418	0.000	65	850	0.0200	0.0210	
12 Butadiene	39	4.485	4.492	-0.007	98	1195	0.0200	0.0220	
13 Bromomethane	94	5.184	5.189	-0.005	100	601	0.0200	0.0227	
14 Chloroethane	64	5.364	5.368	-0.004	99	446	0.0200	0.0217	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	1890	0.0200	0.0222	
16 Isopropyl alcohol	45	6.556	6.526	0.030	98	4138	0.0200	0.0228	M
17 Acrolein	56	6.600	6.593	0.007	98	547	0.0200	0.0210	
18 Acetone	43	6.757	6.734	0.023	100	4388	0.0200	-0.003238	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	99	1954	0.0200	0.0186	
20 1,1-Dichloroethene	96	7.121	7.129	-0.008	98	629	0.0200	0.0217	
21 Acetonitrile	41	7.820	7.826	-0.006	100	2143	0.0200	0.0215	
22 Methylene Chloride	49	7.983	7.989	-0.006	100	3895	0.0200	0.0418	
23 Acrylonitrile	53	8.119	8.112	0.007	100	1087	0.0200	0.0202	
24 Methyl tert-butyl ether	73	8.589	8.563	0.026	100	1869	0.0200	0.0210	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	605	0.0200	0.0217	
26 Hexane	41	9.158	9.165	-0.007	99	1787	0.0200	0.0231	
28 1,1-Dichloroethane	63	9.523	9.529	-0.006	95	1793	0.0200	0.0218	
27 Vinyl acetate	43	9.568	9.568	0.000	75	4298	0.0200	0.0203	
29 2-Butanone (MEK)	72	10.392	10.367	0.025	100	235	0.0200	0.0157	
30 cis-1,2-Dichloroethene	96	10.760	10.768	-0.008	74	689	0.0200	0.0214	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.835	10.812	0.023	98	3218	0.0200	0.0202	
32 Chloroform	83	11.117	11.117	0.000	99	1572	0.0200	0.0222	
33 Tetrahydrofuran	42	11.579	11.541	0.038	100	1951	0.0200	0.0214	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	1876	0.0200	0.0178	
35 Cyclohexane	84	12.252	12.256	-0.004	100	923	0.0200	0.0226	
36 Carbon tetrachloride	117	12.628	12.628	0.000	45	1595	0.0200	0.0151	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	93	1518	0.0200	0.0219	
38 Benzene	78	12.879	12.886	-0.007	100	2453	0.0200	0.0233	
39 n-Heptane	43	13.122	13.122	0.000	100	3381	0.0200	0.0226	
40 Trichloroethene	130	14.273	14.273	0.000	100	956	0.0200	0.0219	
41 1,2-Dichloropropane	76	14.558	14.565	-0.007	99	411	0.0200	0.0231	
42 Dichlorobromomethane	85	15.011	15.018	-0.007	96	1153	0.0200	0.0214	
43 1,4-Dioxane	88	15.077	15.048	0.029	34	384	0.0200	0.0188	
44 4-Methyl-2-pentanone (MIBK	43	15.938	15.913	0.025	100	3421	0.0200	0.0186	
45 cis-1,3-Dichloropropene	75	16.260	16.262	-0.002	100	1343	0.0200	0.0210	
46 Toluene	91	17.072	17.072	0.000	99	2704	0.0200	0.0223	
47 trans-1,3-Dichloropropene	75	17.359	17.350	0.009	100	1179	0.0200	0.0223	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	97	873	0.0200	0.0229	
49 2-Hexanone	58	17.874	17.849	0.025	99	828	0.0200	0.0168	
50 Tetrachloroethene	166	18.600	18.600	0.000	99	1341	0.0200	0.0228	
51 Chlorodibromomethane	129	18.789	18.782	0.007	99	1542	0.0200	0.0214	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	1209	0.0200	0.0186	
53 Chlorobenzene	112	20.264	20.259	0.005	51	2011	0.0200	0.0229	
55 Ethylbenzene	91	20.463	20.462	0.001	100	3353	0.0200	0.0224	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	100	5024	0.0400	0.0444	
57 o-Xylene	91	21.545	21.545	0.000	98	2536	0.0200	0.0227	
58 Styrene	104	21.576	21.571	0.005	99	1360	0.0200	0.0199	
54 1,1,2,2-Tetrachloroethane	83	22.525	22.519	0.005	100	1592	0.0200	0.0226	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	71	434	0.0200	0.0223	
61 4-Ethyltoluene	120	23.431	23.428	0.003	100	793	0.0200	0.0202	
62 1,3,5-Trimethylbenzene	120	23.532	23.527	0.005	100	1241	0.0200	0.0217	
63 1,2,4-Trimethylbenzene	120	24.318	24.312	0.006	100	1032	0.0200	0.0209	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	99	1243	0.0200	0.0226	
65 1,4-Dichlorobenzene	146	25.250	25.245	0.005	100	1049	0.0200	0.0214	
66 Benzyl chloride	91	25.416	25.411	0.005	100	976	0.0160	0.0157	
67 1,2-Dichlorobenzene	146	25.968	25.963	0.005	100	1150	0.0200	0.0243	
68 1,2,4-Trichlorobenzene	180	29.276	29.271	0.005	100	324	0.0200	0.0198	
69 Hexachlorobutadiene	225	29.660	29.656	0.004	100	1274	0.0200	0.0247	
70 Naphthalene	128	29.704	29.699	0.005	1	900	0.0200	0.0234	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VACORPIC0.1_00060	Amount Added: 100.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040504.D

Injection Date: 05-Apr-2018 16:36:30 Instrument ID: ATMS5

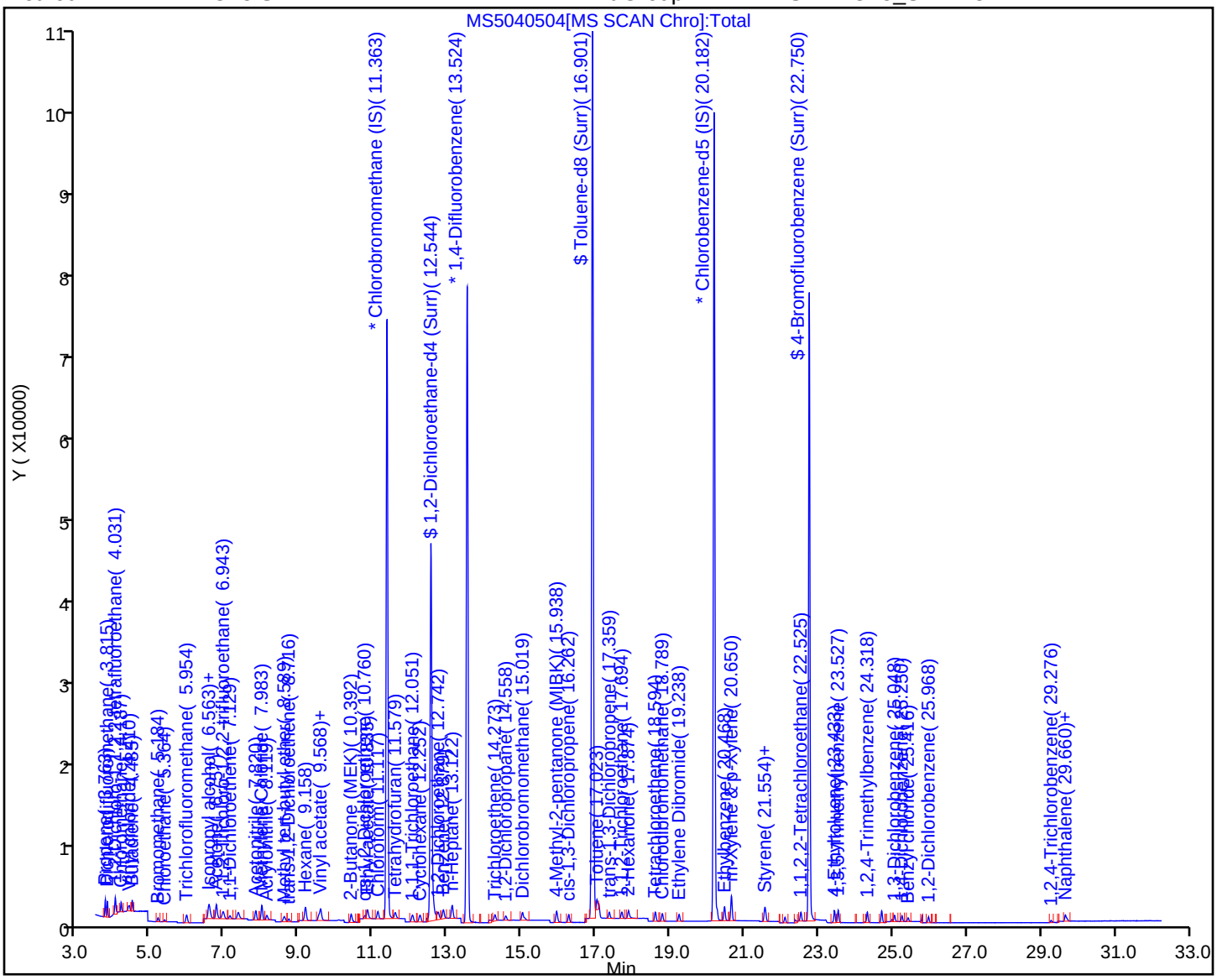
Lims ID: IC 0.02ppbv

Client ID:

Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 4

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

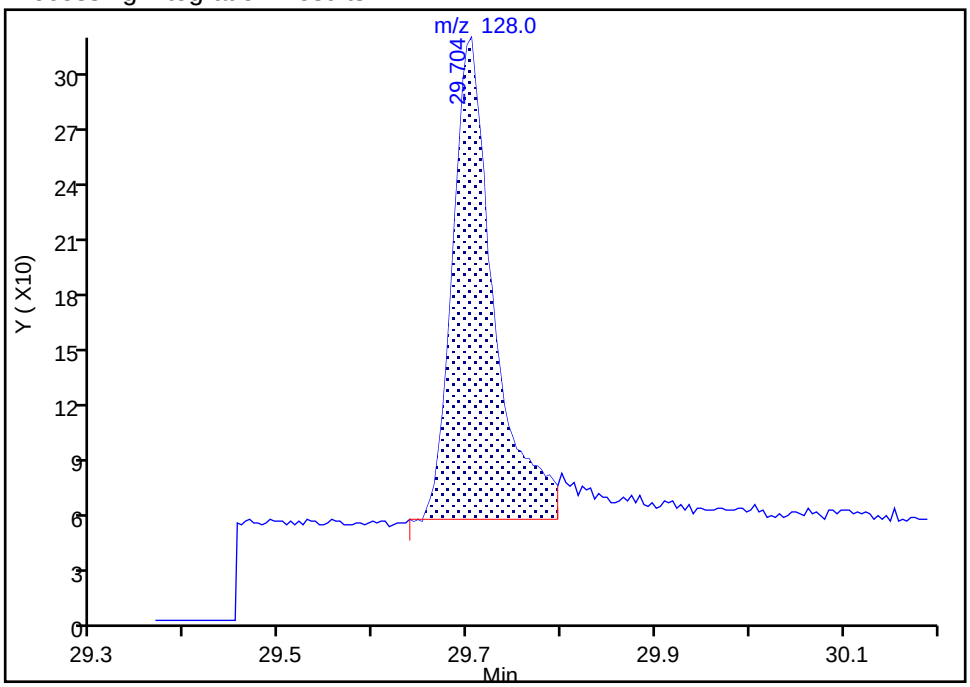
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040504.D
Injection Date: 05-Apr-2018 16:36:30 Instrument ID: ATMS5
Lims ID: IC 0.02ppbv
Client ID:
Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

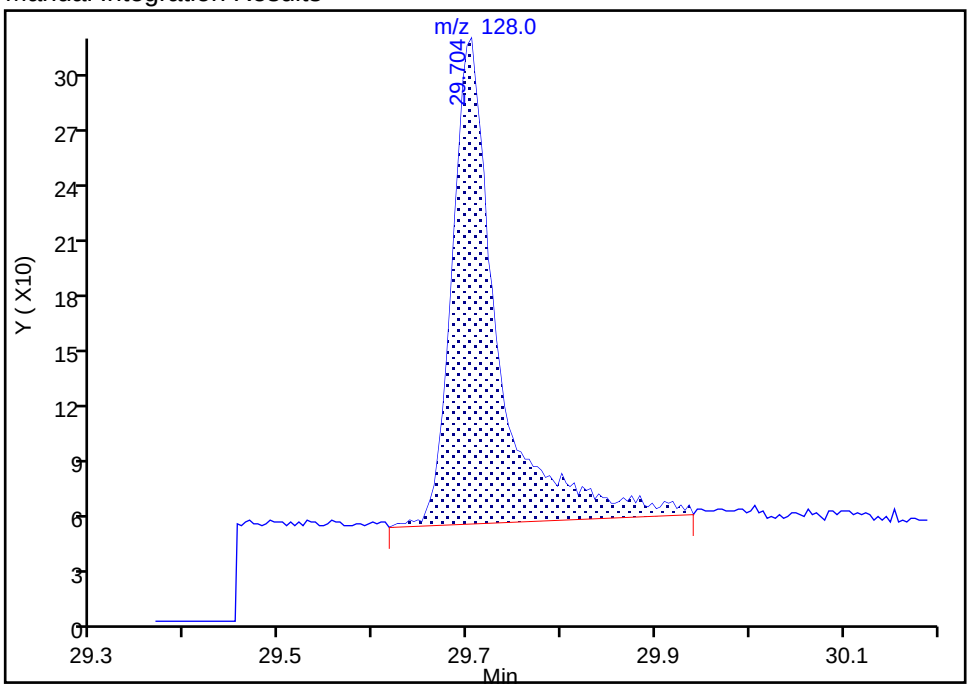
Processing Integration Results

RT: 29.70
Area: 794
Amount: 0.020654
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 900
Amount: 0.023447
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:27:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040505.D
Lims ID: IC 0.04ppbv
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Apr-2018 17:26:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.04ppbv (0.1ppbv)
Misc. Info.: 200ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:31 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:28:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	45296	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.526	13.526	0.000	100	198486	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	165019	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	79	92440	2.00	2.01	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	118949	2.00	1.97	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	99	100339	2.00	1.89	
7 Propene	41	3.763	3.763	0.000	98	3028	0.0400	0.0459	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	99	3844	0.0400	0.0398	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	98	2123	0.0400	0.0399	
10 Chloromethane	50	4.195	4.194	0.001	100	2819	0.0400	0.0434	
11 Vinyl chloride	62	4.418	4.418	0.000	98	1471	0.0400	0.0378	
12 Butadiene	39	4.492	4.492	0.000	98	2124	0.0400	0.0406	
13 Bromomethane	94	5.189	5.189	0.000	100	1054	0.0400	0.0413	
14 Chloroethane	64	5.368	5.368	0.000	100	836	0.0400	0.0423	
15 Trichlorofluoromethane	101	5.958	5.962	-0.004	100	3358	0.0400	0.0409	
16 Isopropyl alcohol	45	6.556	6.526	0.030	99	7153	0.0400	0.0410	a
17 Acrolein	56	6.608	6.593	0.015	99	1029	0.0400	0.0411	
18 Acetone	43	6.757	6.734	0.023	100	5473	0.0400	0.0103	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	3002	0.0400	0.0379	
20 1,1-Dichloroethene	96	7.129	7.129	0.000	100	1138	0.0400	0.0408	
21 Acetonitrile	41	7.826	7.826	0.000	100	3832	0.0400	0.0400	
22 Methylene Chloride	49	7.989	7.989	0.000	100	5410	0.0400	0.0603	
23 Acrylonitrile	53	8.119	8.112	0.007	100	2031	0.0400	0.0392	
24 Methyl tert-butyl ether	73	8.589	8.563	0.026	100	3358	0.0400	0.0391	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	1084	0.0400	0.0404	
26 Hexane	41	9.165	9.165	0.000	99	3100	0.0400	0.0416	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	99	3223	0.0400	0.0408	
27 Vinyl acetate	43	9.575	9.568	0.007	75	7921	0.0400	0.0388	
29 2-Butanone (MEK)	72	10.392	10.367	0.025	100	238	0.0400	0.0165	
30 cis-1,2-Dichloroethene	96	10.768	10.768	0.000	68	1257	0.0400	0.0405	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.835	10.812	0.023	98	6124	0.0400	0.0398	
32 Chloroform	83	11.117	11.117	0.000	99	2774	0.0400	0.0407	
33 Tetrahydrofuran	42	11.579	11.541	0.038	100	3516	0.0400	0.0400	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	99	3220	0.0400	0.0384	
35 Cyclohexane	84	12.256	12.256	0.000	100	1606	0.0400	0.0409	
36 Carbon tetrachloride	117	12.628	12.628	0.000	49	2847	0.0400	0.0355	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	93	2753	0.0400	0.0412	
38 Benzene	78	12.887	12.886	0.001	99	4227	0.0400	0.0417	
39 n-Heptane	43	13.122	13.122	0.000	99	5783	0.0400	0.0402	
40 Trichloroethene	130	14.273	14.273	0.000	99	1742	0.0400	0.0415	
41 1,2-Dichloropropane	76	14.565	14.565	0.000	100	700	0.0400	0.0409	
42 Dichlorobromomethane	85	15.018	15.018	0.000	96	2004	0.0400	0.0388	
43 1,4-Dioxane	88	15.077	15.048	0.029	35	848	0.0400	0.0432	
44 4-Methyl-2-pentanone (MIBK	43	15.933	15.913	0.020	100	6814	0.0400	0.0385	a
45 cis-1,3-Dichloropropene	75	16.264	16.262	0.002	100	2391	0.0400	0.0388	
46 Toluene	91	17.072	17.072	0.000	99	4704	0.0400	0.0403	
47 trans-1,3-Dichloropropene	75	17.359	17.350	0.009	97	2079	0.0400	0.0412	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	99	1566	0.0400	0.0431	
49 2-Hexanone	58	17.874	17.849	0.025	100	2029	0.0400	0.0431	
50 Tetrachloroethene	166	18.600	18.600	0.000	100	2380	0.0400	0.0425	
51 Chlorodibromomethane	129	18.789	18.782	0.007	100	2729	0.0400	0.0398	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	2214	0.0400	0.0357	
53 Chlorobenzene	112	20.264	20.259	0.005	77	3540	0.0400	0.0423	
55 Ethylbenzene	91	20.463	20.462	0.001	100	5913	0.0400	0.0414	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	100	8823	0.0800	0.0819	
57 o-Xylene	91	21.549	21.545	0.004	100	4382	0.0400	0.0412	
58 Styrene	104	21.576	21.571	0.005	94	2552	0.0400	0.0391	
59 Bromoform	173	22.095	22.092	0.002	100	2150	0.0400	0.0410	
54 1,1,2,2-Tetrachloroethane	83	22.524	22.519	0.005	100	2806	0.0400	0.0419	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	87	811	0.0400	0.0437	
61 4-Ethyltoluene	120	23.429	23.428	0.001	100	1445	0.0400	0.0387	
62 1,3,5-Trimethylbenzene	120	23.532	23.527	0.005	100	2191	0.0400	0.0403	
63 1,2,4-Trimethylbenzene	120	24.316	24.312	0.004	100	1835	0.0400	0.0390	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	100	2163	0.0400	0.0413	
65 1,4-Dichlorobenzene	146	25.250	25.245	0.005	100	1897	0.0400	0.0407	
66 Benzyl chloride	91	25.416	25.411	0.005	100	2099	0.0320	0.0354	
67 1,2-Dichlorobenzene	146	25.963	25.963	0.000	100	1969	0.0400	0.0436	
68 1,2,4-Trichlorobenzene	180	29.269	29.271	-0.002	99	669	0.0400	0.0430	
69 Hexachlorobutadiene	225	29.651	29.656	-0.005	100	2215	0.0400	0.0451	
70 Naphthalene	128	29.700	29.699	0.001	1	1609	0.0400	0.0440	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC0.1_00060	Amount Added: 200.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:32 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040505.D

Injection Date: 05-Apr-2018 17:26:30 Instrument ID: ATMS5

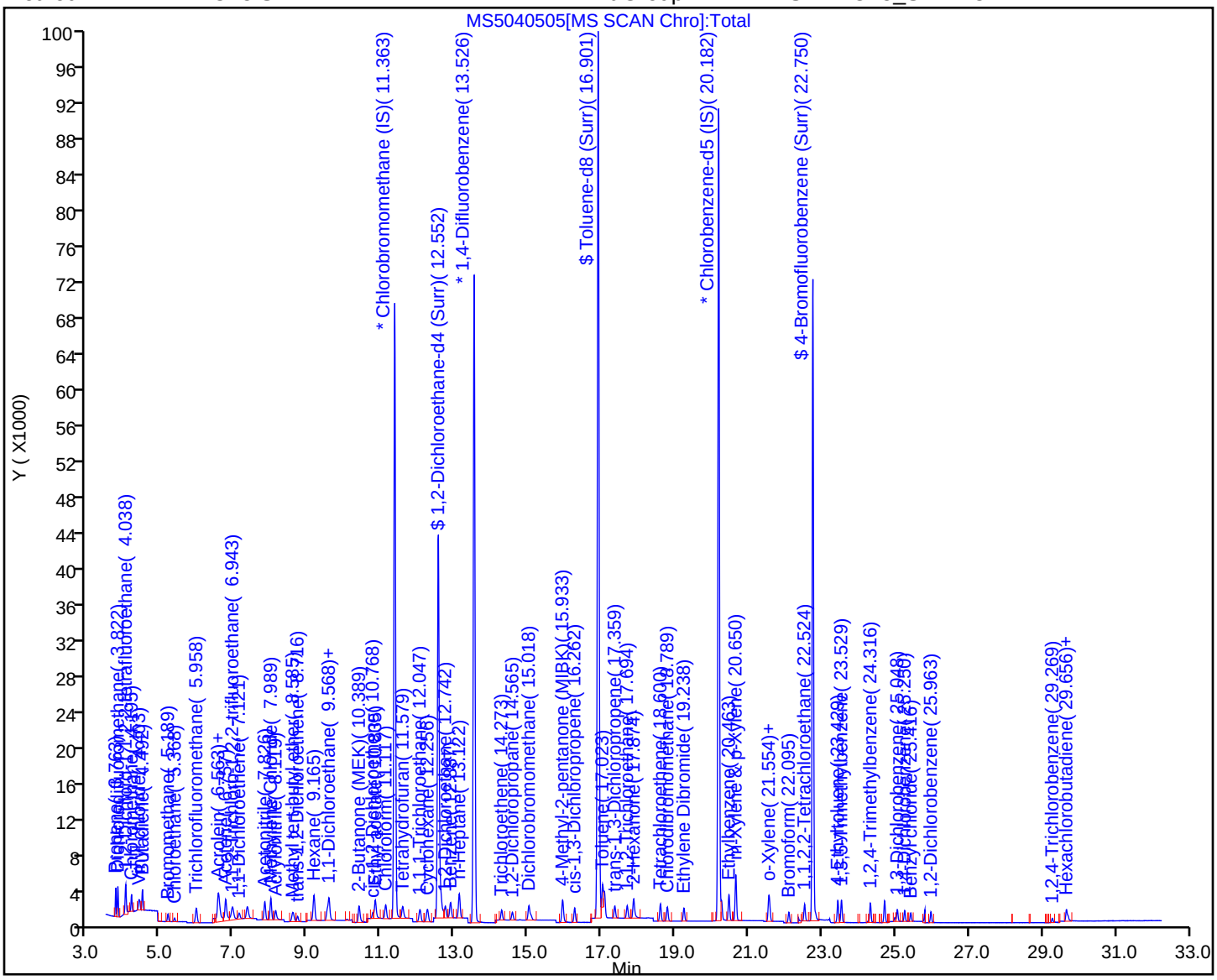
Lims ID: IC 0.04ppbv

Client ID:

Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

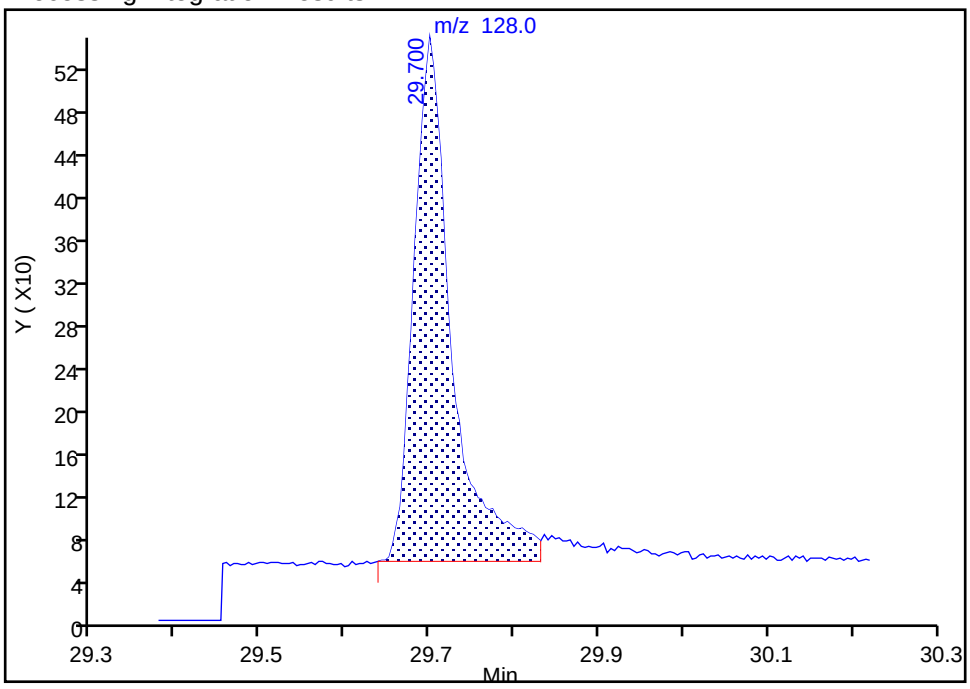
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040505.D
Injection Date: 05-Apr-2018 17:26:30 Instrument ID: ATMS5
Lims ID: IC 0.04ppbv
Client ID:
Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

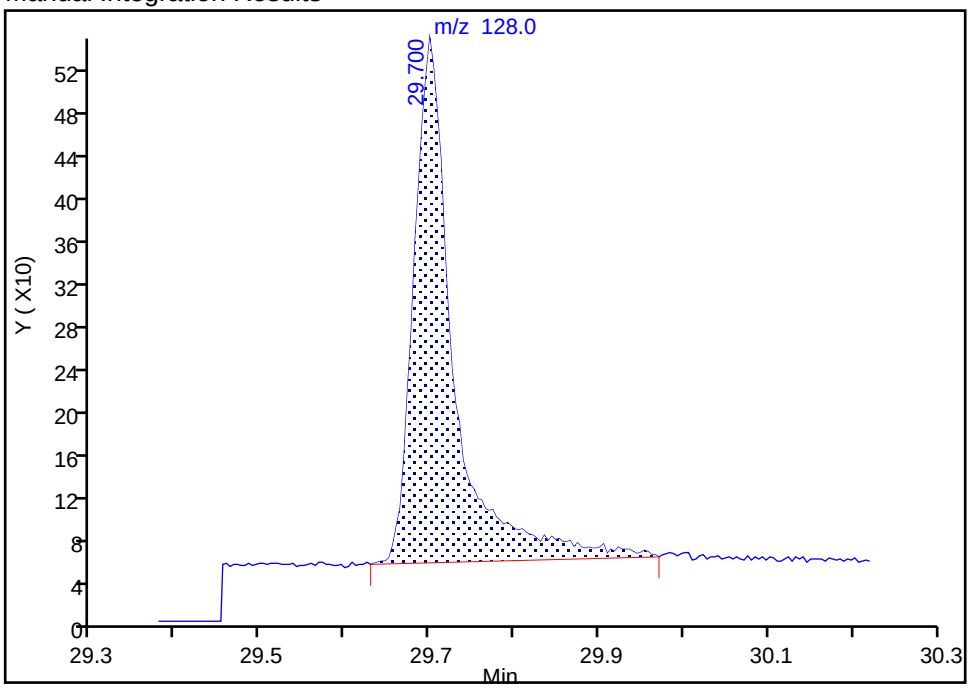
Processing Integration Results

RT: 29.70
Area: 1523
Amount: 0.040621
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 1609
Amount: 0.044004
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:27:02
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040506.D
Lims ID: IC 0.1ppbv
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Apr-2018 18:19:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.10pbv (0.1ppbv)
Misc. Info.: 5000ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:33 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:54:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	45998	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.524	13.526	-0.002	100	202245	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.182	0.000	100	165888	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	79	94035	2.00	2.01	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	120416	2.00	1.96	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.745	0.000	100	100020	2.00	1.87	
7 Propene	41	3.763	3.763	0.000	100	6801	0.1000	0.1015	
8 Dichlorodifluoromethane	85	3.823	3.822	0.001	100	9258	0.1000	0.0943	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.031	4.038	-0.007	99	5000	0.1000	0.0926	
10 Chloromethane	50	4.187	4.194	-0.007	100	6379	0.1000	0.0967	
11 Vinyl chloride	62	4.418	4.418	0.000	86	3438	0.1000	0.0869	
12 Butadiene	39	4.485	4.492	-0.007	100	4964	0.1000	0.0934	
13 Bromomethane	94	5.180	5.189	-0.009	99	2431	0.1000	0.0938	
14 Chloroethane	64	5.359	5.368	-0.009	100	1886	0.1000	0.0940	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	7768	0.1000	0.0933	
16 Isopropyl alcohol	45	6.541	6.526	0.015	100	16025	0.1000	0.0905	a
17 Acrolein	56	6.593	6.593	0.000	93	2327	0.1000	0.0915	
18 Acetone	43	6.749	6.734	0.015	100	11812	0.1000	0.0770	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	6424	0.1000	0.0952	
20 1,1-Dichloroethene	96	7.121	7.129	-0.008	100	2610	0.1000	0.0921	
21 Acetonitrile	41	7.820	7.826	-0.006	100	9107	0.1000	0.0936	
22 Methylene Chloride	49	7.983	7.989	-0.006	100	10501	0.1000	0.1153	
23 Acrylonitrile	53	8.113	8.112	0.001	99	4706	0.1000	0.0893	
24 Methyl tert-butyl ether	73	8.581	8.563	0.018	100	7844	0.1000	0.0900	
25 trans-1,2-Dichloroethene	96	8.712	8.720	-0.008	99	2508	0.1000	0.0921	
26 Hexane	41	9.158	9.165	-0.007	98	7247	0.1000	0.0958	
28 1,1-Dichloroethane	63	9.523	9.529	-0.006	98	7516	0.1000	0.0936	
27 Vinyl acetate	43	9.568	9.568	0.000	75	18352	0.1000	0.0886	
29 2-Butanone (MEK)	72	10.380	10.367	0.013	100	1291	0.1000	0.0883	
30 cis-1,2-Dichloroethene	96	10.768	10.768	0.000	94	2957	0.1000	0.0938	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.827	10.812	0.015	98	14330	0.1000	0.0918	
32 Chloroform	83	11.110	11.117	-0.007	100	6414	0.1000	0.0927	
33 Tetrahydrofuran	42	11.571	11.541	0.030	100	8213	0.1000	0.0920	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	7156	0.1000	0.0943	
35 Cyclohexane	84	12.256	12.256	0.000	100	3739	0.1000	0.0937	
36 Carbon tetrachloride	117	12.628	12.628	0.000	54	6634	0.1000	0.0923	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	100	6386	0.1000	0.0939	
38 Benzene	78	12.879	12.886	-0.007	99	9572	0.1000	0.0927	
39 n-Heptane	43	13.123	13.122	0.000	100	13458	0.1000	0.0918	
40 Trichloroethene	130	14.273	14.273	0.000	99	3954	0.1000	0.0924	
41 1,2-Dichloropropane	76	14.566	14.565	0.001	100	1652	0.1000	0.0948	
42 Dichlorobromomethane	85	15.011	15.018	-0.007	96	4603	0.1000	0.0874	
43 1,4-Dioxane	88	15.070	15.048	0.022	35	1834	0.1000	0.0917	
44 4-Methyl-2-pentanone (MIBK	43	15.929	15.913	0.016	100	15601	0.1000	0.0866	
45 cis-1,3-Dichloropropene	75	16.262	16.262	0.000	97	5530	0.1000	0.0882	
46 Toluene	91	17.073	17.072	0.001	100	10741	0.1000	0.0903	
47 trans-1,3-Dichloropropene	75	17.359	17.350	0.009	100	4792	0.1000	0.0945	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	98	3558	0.1000	0.0975	
49 2-Hexanone	58	17.866	17.849	0.017	100	4510	0.1000	0.0954	
50 Tetrachloroethene	166	18.600	18.600	0.000	99	5447	0.1000	0.0967	
51 Chlorodibromomethane	129	18.789	18.782	0.007	100	6201	0.1000	0.0901	
52 Ethylene Dibromide	107	19.238	19.238	0.000	99	4937	0.1000	0.0793	
53 Chlorobenzene	112	20.265	20.259	0.005	91	7956	0.1000	0.0947	
55 Ethylbenzene	91	20.463	20.462	0.001	100	13435	0.1000	0.0936	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	100	20167	0.2000	0.1862	
57 o-Xylene	91	21.545	21.545	0.000	99	9944	0.1000	0.0929	
58 Styrene	104	21.576	21.571	0.005	97	5732	0.1000	0.0874	
59 Bromoform	173	22.095	22.092	0.003	100	4889	0.1000	0.0927	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.519	0.000	100	6309	0.1000	0.0937	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	90	1805	0.1000	0.0968	
61 4-Ethyltoluene	120	23.429	23.428	0.001	100	3484	0.1000	0.0929	
62 1,3,5-Trimethylbenzene	120	23.527	23.527	0.000	100	5088	0.1000	0.0930	
63 1,2,4-Trimethylbenzene	120	24.314	24.312	0.002	100	4192	0.1000	0.0887	
64 1,3-Dichlorobenzene	146	25.044	25.048	-0.004	99	4779	0.1000	0.0907	
65 1,4-Dichlorobenzene	146	25.245	25.245	0.000	100	4139	0.1000	0.0883	
66 Benzyl chloride	91	25.411	25.411	0.000	100	4640	0.0800	0.0779	
67 1,2-Dichlorobenzene	146	25.961	25.963	-0.002	100	4330	0.1000	0.0954	
68 1,2,4-Trichlorobenzene	180	29.267	29.271	-0.004	98	1508	0.1000	0.0964	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	4909	0.1000	0.0995	
70 Naphthalene	128	29.700	29.699	0.001	1	3390	0.1000	0.0922	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC0.1_00060	Amount Added: 500.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040506.D

Injection Date: 05-Apr-2018 18:19:30 Instrument ID: ATMS5

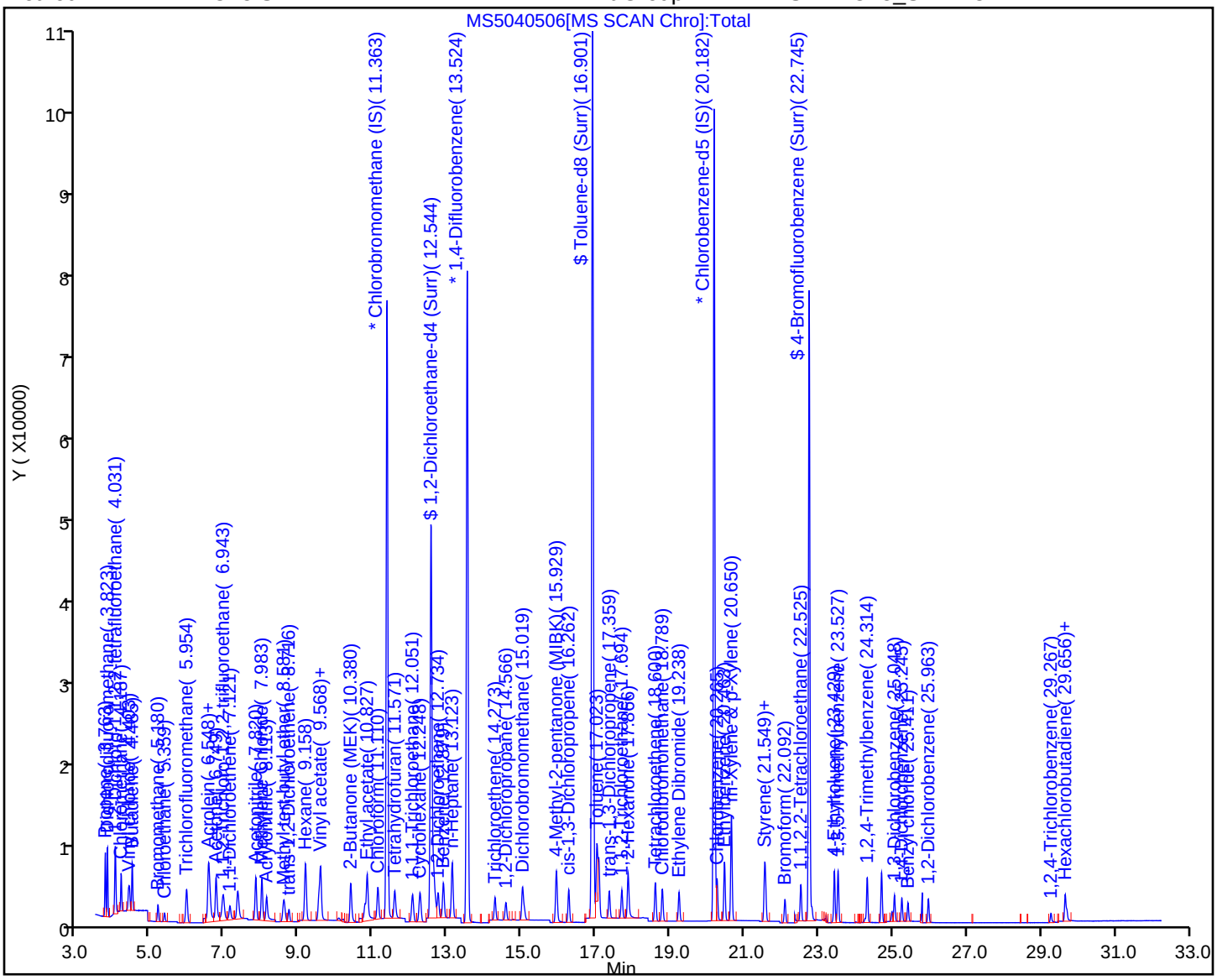
Lims ID: IC 0.1ppbv

Client ID:

Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

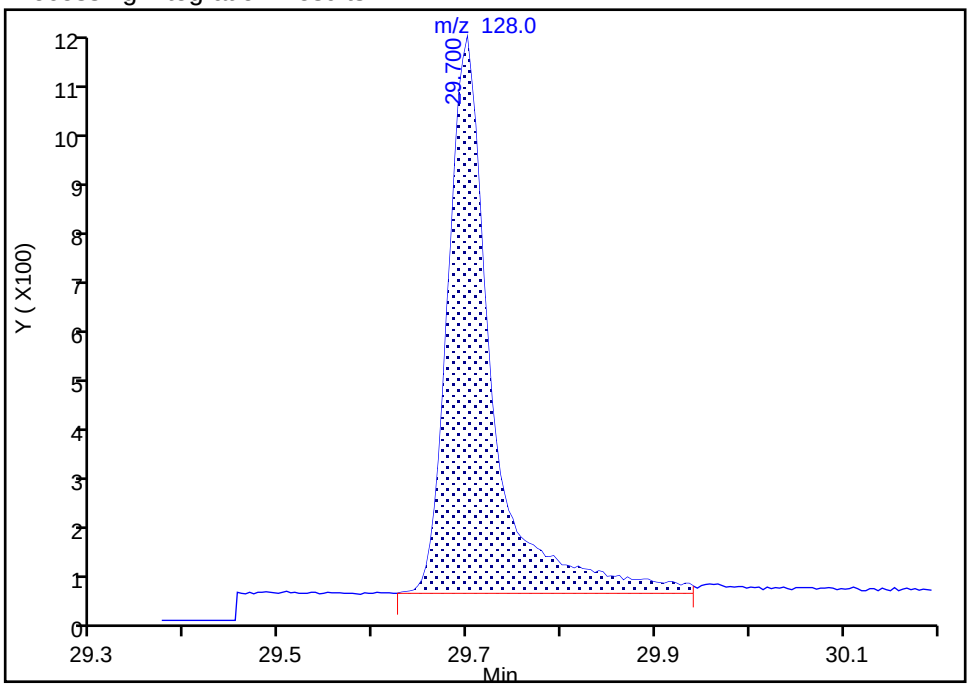
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Injection Date: 05-Apr-2018 18:19:30 Instrument ID: ATMS5
Lims ID: IC 0.1ppbv
Client ID:
Operator ID: SV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

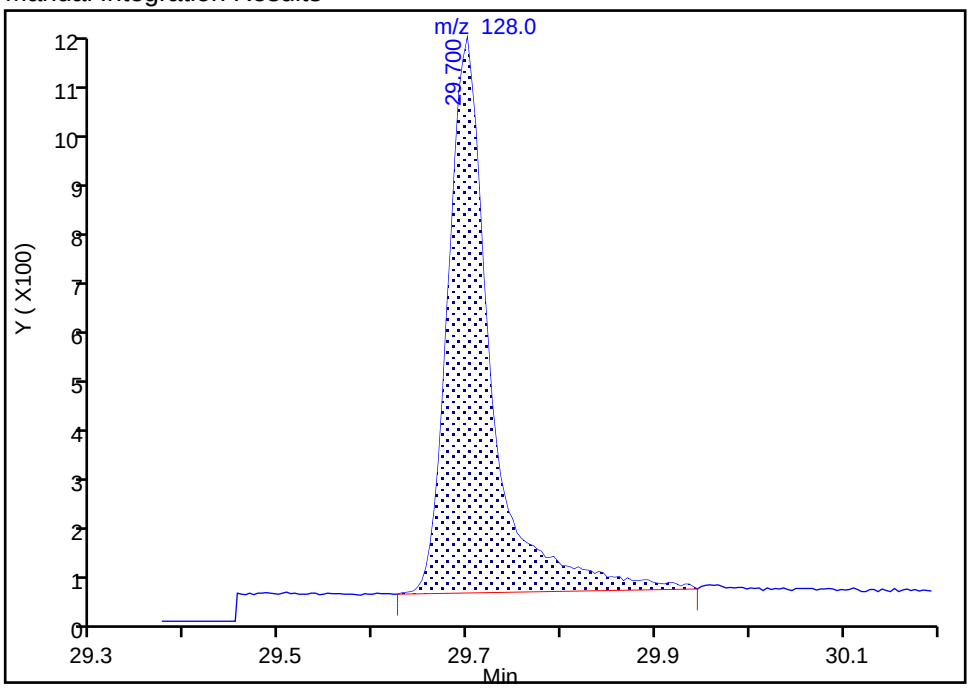
Processing Integration Results

RT: 29.70
Area: 3485
Amount: 0.088921
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 3390
Amount: 0.092225
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:26:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040507.D
Lims ID: IC 0.2ppbv
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Apr-2018 19:08:30 ALS Bottle#: 1 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.20ppbv (2.5ppbv)
Misc. Info.: 40ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:35 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:48:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.370	11.370	0.000	100	46119	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.528	13.526	0.002	100	200730	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.182	0.000	100	169201	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	82	93142	2.00	2.00	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	121195	2.00	1.98	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.745	0.000	100	103242	2.00	1.90	
7 Propene	41	3.763	3.763	0.000	99	17431	0.2000	0.2594	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	99	25067	0.2000	0.2546	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	99	13783	0.2000	0.2547	
10 Chloromethane	50	4.194	4.194	0.000	100	16792	0.2000	0.2538	
11 Vinyl chloride	62	4.418	4.418	0.000	99	9405	0.2000	0.2371	
12 Butadiene	39	4.492	4.492	0.000	98	13941	0.2000	0.2615	
13 Bromomethane	94	5.184	5.189	-0.005	100	6402	0.2000	0.2465	
14 Chloroethane	64	5.363	5.368	-0.005	100	4703	0.2000	0.2337	
15 Trichlorofluoromethane	101	5.958	5.962	-0.004	100	21120	0.2000	0.2529	
16 Isopropyl alcohol	45	6.533	6.526	0.007	99	43662	0.2000	0.2458	a
17 Acrolein	56	6.593	6.593	0.000	94	6221	0.2000	0.2441	
18 Acetone	43	6.742	6.734	0.008	100	25695	0.2000	0.2245	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	14844	0.2000	0.2374	
20 1,1-Dichloroethene	96	7.129	7.129	0.000	100	6705	0.2000	0.2359	
21 Acetonitrile	41	7.826	7.826	0.000	100	23100	0.2000	0.2368	
22 Methylene Chloride	49	7.989	7.989	0.000	100	22853	0.2000	0.2503	
23 Acrylonitrile	53	8.112	8.112	0.000	100	12490	0.2000	0.2365	
24 Methyl tert-butyl ether	73	8.572	8.563	0.009	100	21507	0.2000	0.2461	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	6272	0.2000	0.2297	
26 Hexane	41	9.165	9.165	0.000	99	18588	0.2000	0.2451	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	95	19616	0.2000	0.2437	
27 Vinyl acetate	43	9.568	9.568	0.000	99	51944	0.2000	0.2501	
29 2-Butanone (MEK)	72	10.378	10.367	0.011	100	3488	0.2000	0.2380	
30 cis-1,2-Dichloroethene	96	10.768	10.768	0.000	96	7751	0.2000	0.2452	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.820	10.812	0.008	98	38643	0.2000	0.2470	
32 Chloroform	83	11.117	11.117	0.000	100	17040	0.2000	0.2457	
33 Tetrahydrofuran	42	11.556	11.541	0.015	100	22370	0.2000	0.2499	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	18340	0.2000	0.2546	
35 Cyclohexane	84	12.256	12.256	0.000	99	9284	0.2000	0.2320	
36 Carbon tetrachloride	117	12.628	12.628	0.000	60	16954	0.2000	0.2514	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	100	17116	0.2000	0.2536	
38 Benzene	78	12.886	12.886	0.000	99	25061	0.2000	0.2446	
39 n-Heptane	43	13.122	13.122	0.000	100	38149	0.2000	0.2621	
40 Trichloroethene	130	14.273	14.273	0.000	99	10759	0.2000	0.2534	
41 1,2-Dichloropropane	76	14.573	14.565	0.008	100	4496	0.2000	0.2600	
42 Dichlorobromomethane	85	15.018	15.018	0.000	98	12585	0.2000	0.2407	
43 1,4-Dioxane	88	15.055	15.048	0.007	59	4831	0.2000	0.2432	
44 4-Methyl-2-pentanone (MIBK	43	15.924	15.913	0.011	100	44704	0.2000	0.2501	
45 cis-1,3-Dichloropropene	75	16.264	16.262	0.002	98	15885	0.2000	0.2552	
46 Toluene	91	17.072	17.072	0.000	100	29865	0.2000	0.2528	
47 trans-1,3-Dichloropropene	75	17.358	17.350	0.008	99	13344	0.2000	0.2580	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	99	9922	0.2000	0.2665	
49 2-Hexanone	58	17.857	17.849	0.008	99	11541	0.2000	0.2393	
50 Tetrachloroethene	166	18.600	18.600	0.000	100	15120	0.2000	0.2633	
51 Chlorodibromomethane	129	18.789	18.782	0.007	100	17591	0.2000	0.2505	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	14143	0.2000	0.2227	
53 Chlorobenzene	112	20.264	20.259	0.005	97	22176	0.2000	0.2587	
55 Ethylbenzene	91	20.462	20.462	0.000	100	37933	0.2000	0.2591	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	100	56888	0.4000	0.5149	
57 o-Xylene	91	21.545	21.545	0.000	100	27923	0.2000	0.2558	
58 Styrene	104	21.575	21.571	0.004	99	16196	0.2000	0.2421	
59 Bromoform	173	22.092	22.092	0.000	100	13986	0.2000	0.2600	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.519	0.000	100	17489	0.2000	0.2546	
60 1,2,3-Trichloropropane	110	22.816	22.822	-0.006	97	4866	0.2000	0.2559	
61 4-Ethyltoluene	120	23.426	23.428	-0.002	100	9664	0.2000	0.2526	
62 1,3,5-Trimethylbenzene	120	23.525	23.527	-0.002	100	14407	0.2000	0.2583	
63 1,2,4-Trimethylbenzene	120	24.314	24.312	0.002	100	11885	0.2000	0.2466	
64 1,3-Dichlorobenzene	146	25.044	25.048	-0.004	100	13011	0.2000	0.2421	
65 1,4-Dichlorobenzene	146	25.245	25.245	0.000	100	11369	0.2000	0.2377	
66 Benzyl chloride	91	25.411	25.411	0.000	100	10840	0.1600	0.1784	
67 1,2-Dichlorobenzene	146	25.959	25.963	-0.004	100	11023	0.2000	0.2380	
68 1,2,4-Trichlorobenzene	180	29.269	29.271	-0.002	100	3330	0.2000	0.2087	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	11863	0.2000	0.2358	
70 Naphthalene	128	29.699	29.699	0.000	1	7055	0.2000	0.1882	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC0.1_00060	Amount Added: 1000.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040507.D

Injection Date: 05-Apr-2018 19:08:30 Instrument ID: ATMS5

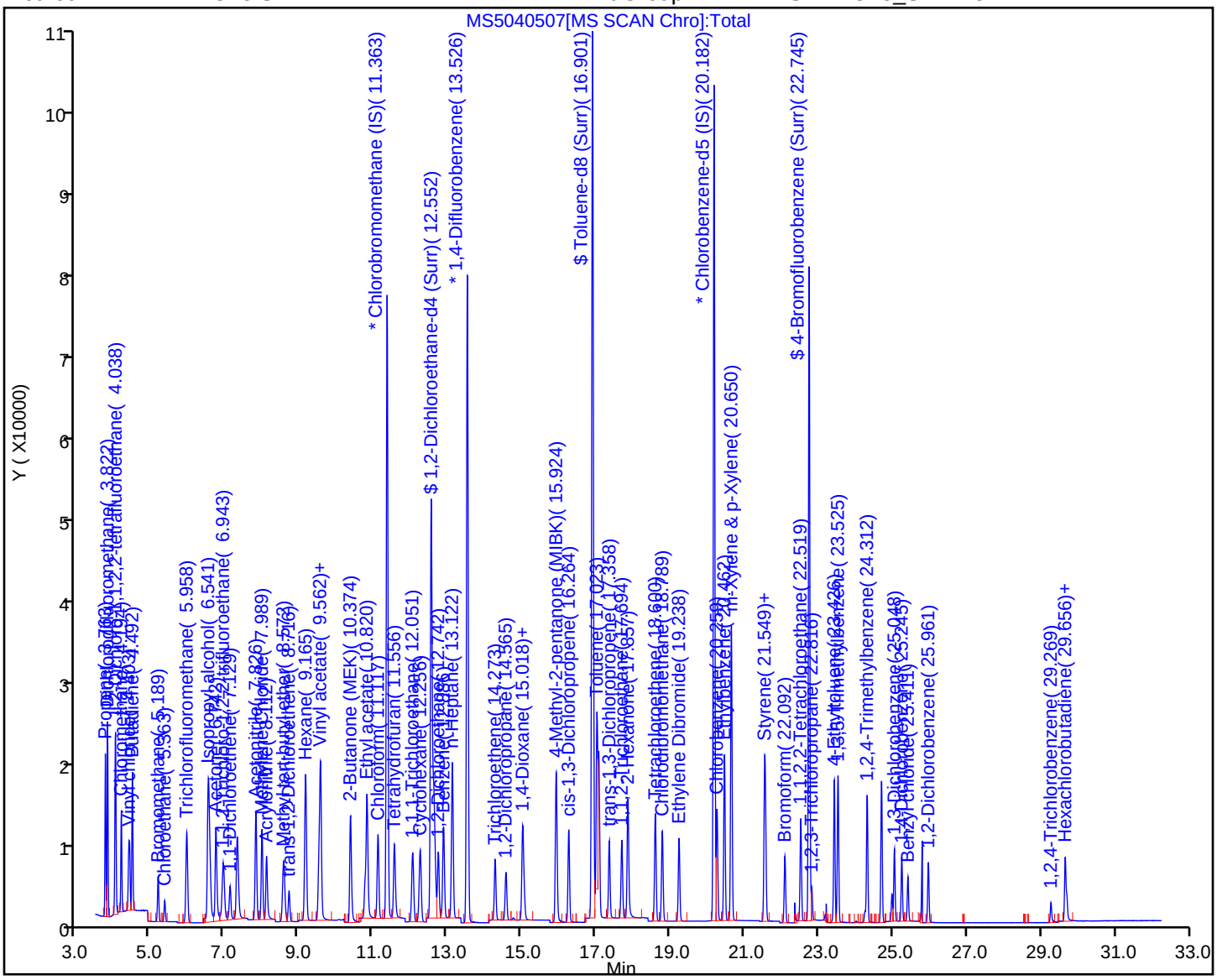
Lims ID: IC 0.2ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

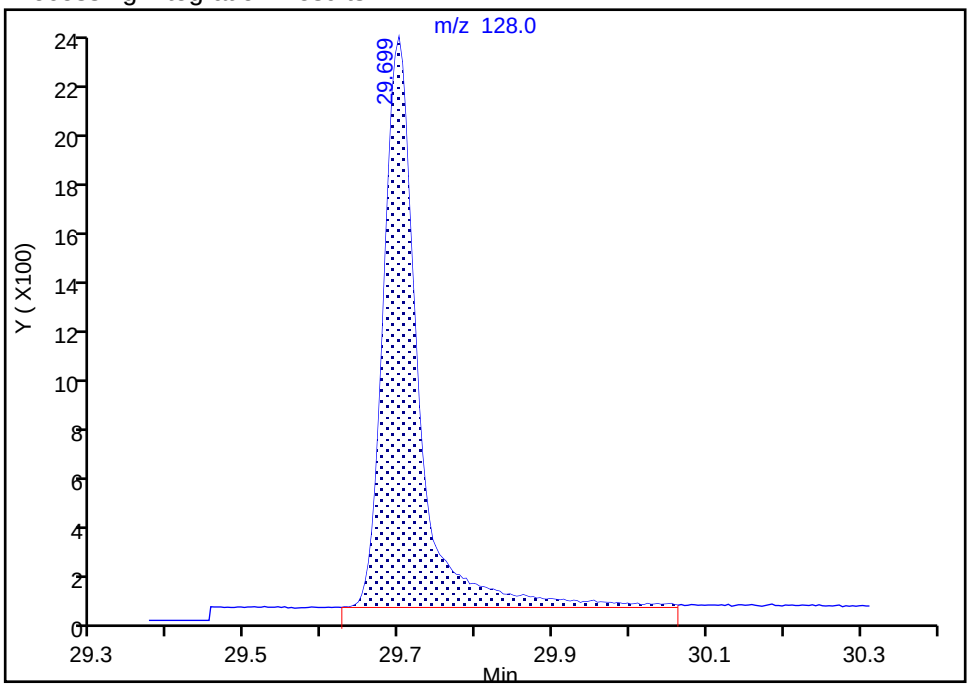
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040507.D
Injection Date: 05-Apr-2018 19:08:30 Instrument ID: ATMS5
Lims ID: IC 0.2ppbv
Client ID:
Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

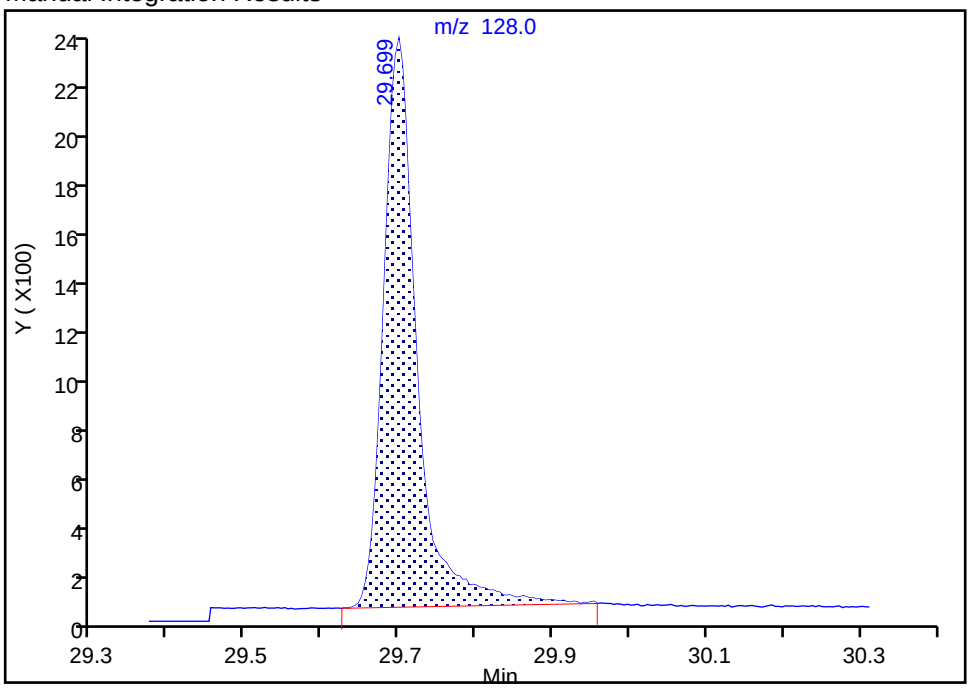
Processing Integration Results

RT: 29.70
Area: 7352
Amount: 0.188576
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 7055
Amount: 0.188174
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:26:18
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040508.D
Lims ID: IC 0.6ppbv
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Apr-2018 19:58:30 ALS Bottle#: 1 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 0.6ppbv (2.5ppbv)
Misc. Info.: 120ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:37 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:49:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	50271	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.526	13.526	0.000	100	221437	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.182	0.000	100	190751	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	86	102592	2.00	2.00	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	133769	2.00	1.99	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.745	0.000	100	124242	2.00	2.02	
7 Propene	41	3.763	3.763	0.000	99	41011	0.6000	0.5598	
8 Dichlorodifluoromethane	85	3.823	3.822	0.001	99	58872	0.6000	0.5486	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	100	32266	0.6000	0.5470	
10 Chloromethane	50	4.195	4.194	0.001	100	39638	0.6000	0.5496	
11 Vinyl chloride	62	4.418	4.418	0.000	100	23108	0.6000	0.5344	
12 Butadiene	39	4.492	4.492	0.000	97	33425	0.6000	0.5752	
13 Bromomethane	94	5.184	5.189	-0.005	100	16169	0.6000	0.5711	
14 Chloroethane	64	5.364	5.368	-0.004	100	12766	0.6000	0.5820	
15 Trichlorofluoromethane	101	5.958	5.962	-0.004	100	52313	0.6000	0.5747	
16 Isopropyl alcohol	45	6.526	6.526	0.000	99	109439	0.6000	0.5653	a
17 Acrolein	56	6.593	6.593	0.000	98	16383	0.6000	0.5896	
18 Acetone	43	6.734	6.734	0.000	100	66788	0.6000	0.6034	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	40894	0.6000	0.6212	
20 1,1-Dichloroethene	96	7.129	7.129	0.000	100	17996	0.6000	0.5808	
21 Acetonitrile	41	7.826	7.826	0.000	100	63439	0.6000	0.5966	
22 Methylene Chloride	49	7.989	7.989	0.000	100	60350	0.6000	0.6063	
23 Acrylonitrile	53	8.106	8.112	-0.006	100	32278	0.6000	0.5607	
24 Methyl tert-butyl ether	73	8.563	8.563	0.000	100	55438	0.6000	0.5819	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	17633	0.6000	0.5925	
26 Hexane	41	9.165	9.165	0.000	99	49473	0.6000	0.5985	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	92	51797	0.6000	0.5903	
27 Vinyl acetate	43	9.568	9.568	0.000	100	132933	0.6000	0.5872	
29 2-Butanone (MEK)	72	10.367	10.367	0.000	100	9089	0.6000	0.5689	
30 cis-1,2-Dichloroethene	96	10.768	10.768	0.000	100	20196	0.6000	0.5861	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.812	10.812	0.000	98	98143	0.6000	0.5754	
32 Chloroform	83	11.118	11.117	0.001	100	44296	0.6000	0.5859	
33 Tetrahydrofuran	42	11.549	11.541	0.008	100	56355	0.6000	0.5775	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	48020	0.6000	0.6237	
35 Cyclohexane	84	12.252	12.256	-0.004	100	26532	0.6000	0.6084	
36 Carbon tetrachloride	117	12.628	12.628	0.000	64	46007	0.6000	0.6312	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	100	43216	0.6000	0.5804	
38 Benzene	78	12.887	12.886	0.001	100	65028	0.6000	0.5753	
39 n-Heptane	43	13.123	13.122	0.001	100	95025	0.6000	0.5918	
40 Trichloroethene	130	14.273	14.273	0.000	100	27153	0.6000	0.5797	
41 1,2-Dichloropropane	76	14.566	14.565	0.001	100	11250	0.6000	0.5897	
42 Dichlorobromomethane	85	15.019	15.018	0.001	99	31801	0.6000	0.5514	
43 1,4-Dioxane	88	15.048	15.048	0.000	93	11721	0.6000	0.5350	
44 4-Methyl-2-pentanone (MIBK	43	15.915	15.913	0.002	100	115210	0.6000	0.5842	
45 cis-1,3-Dichloropropene	75	16.260	16.262	-0.002	98	39651	0.6000	0.5775	
46 Toluene	91	17.073	17.072	0.001	100	75368	0.6000	0.5784	
47 trans-1,3-Dichloropropene	75	17.351	17.350	0.000	98	33198	0.6000	0.5694	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	100	24650	0.6000	0.5873	
49 2-Hexanone	58	17.849	17.849	0.000	99	27320	0.6000	0.5026	
50 Tetrachloroethene	166	18.594	18.600	-0.006	100	37474	0.6000	0.5788	
51 Chlorodibromomethane	129	18.782	18.782	0.000	100	43939	0.6000	0.5551	
52 Ethylene Dibromide	107	19.231	19.238	-0.007	100	35141	0.6000	0.4908	
53 Chlorobenzene	112	20.259	20.259	0.000	100	56510	0.6000	0.5847	
55 Ethylbenzene	91	20.457	20.462	-0.005	100	98345	0.6000	0.5958	
56 m-Xylene & p-Xylene	91	20.644	20.650	-0.006	100	148465	1.20	1.19	
57 o-Xylene	91	21.541	21.545	-0.004	99	73172	0.6000	0.5946	
58 Styrene	104	21.571	21.571	0.000	96	45996	0.6000	0.6098	
59 Bromoform	173	22.090	22.092	-0.002	100	36576	0.6000	0.6032	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.519	0.000	100	45712	0.6000	0.5904	
60 1,2,3-Trichloropropane	110	22.816	22.822	-0.006	99	12672	0.6000	0.5911	
61 4-Ethyltoluene	120	23.424	23.428	-0.004	100	26711	0.6000	0.6193	
62 1,3,5-Trimethylbenzene	120	23.525	23.527	-0.002	100	38710	0.6000	0.6156	
63 1,2,4-Trimethylbenzene	120	24.312	24.312	0.000	100	33793	0.6000	0.6219	
64 1,3-Dichlorobenzene	146	25.044	25.048	-0.004	100	36930	0.6000	0.6096	
65 1,4-Dichlorobenzene	146	25.245	25.245	0.000	100	32664	0.6000	0.6058	
66 Benzyl chloride	91	25.411	25.411	0.000	100	29755	0.4800	0.4344	
67 1,2-Dichlorobenzene	146	25.961	25.963	-0.002	100	31641	0.6000	0.6060	
68 1,2,4-Trichlorobenzene	180	29.269	29.271	-0.002	100	8810	0.6000	0.4898	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	30749	0.6000	0.5422	
70 Naphthalene	128	29.700	29.699	0.001	1	16677	0.6000	0.3946	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 120.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040508.D

Injection Date: 05-Apr-2018 19:58:30 Instrument ID: ATMS5

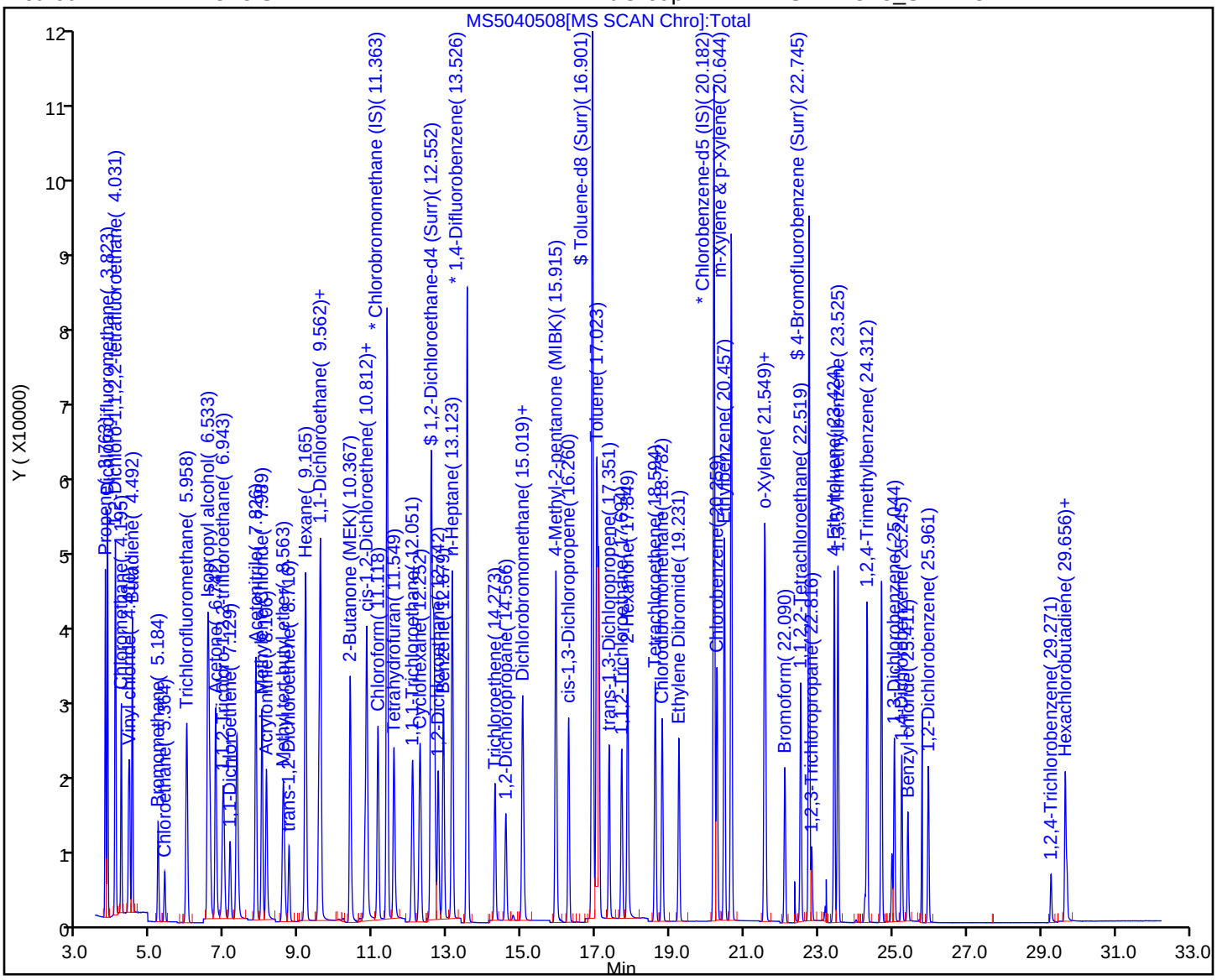
Lims ID: IC 0.6ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

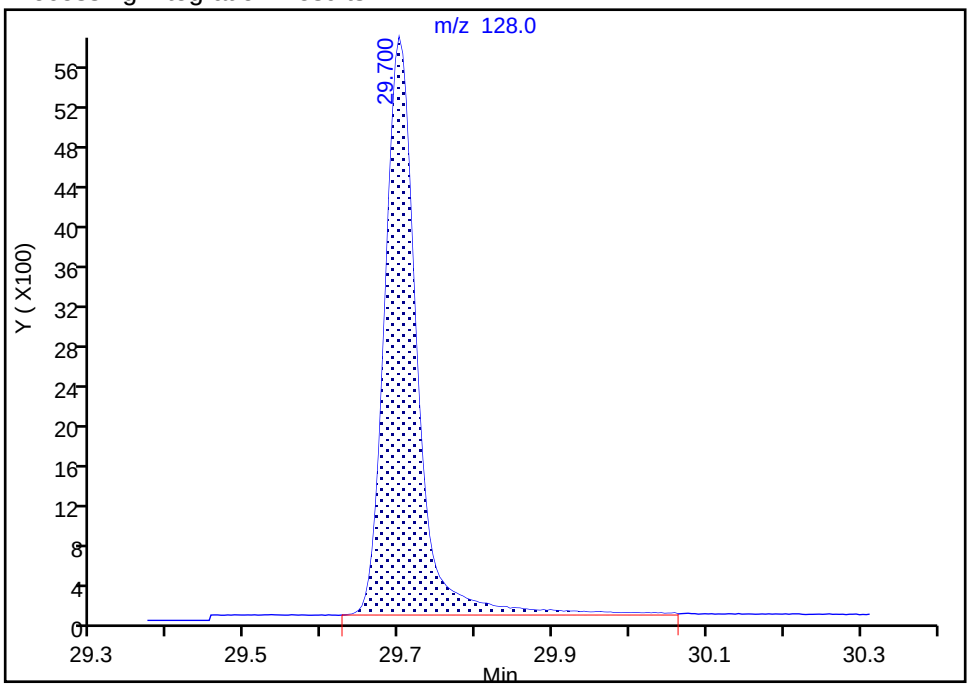
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040508.D
Injection Date: 05-Apr-2018 19:58:30 Instrument ID: ATMS5
Lims ID: IC 0.6ppbv
Client ID:
Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

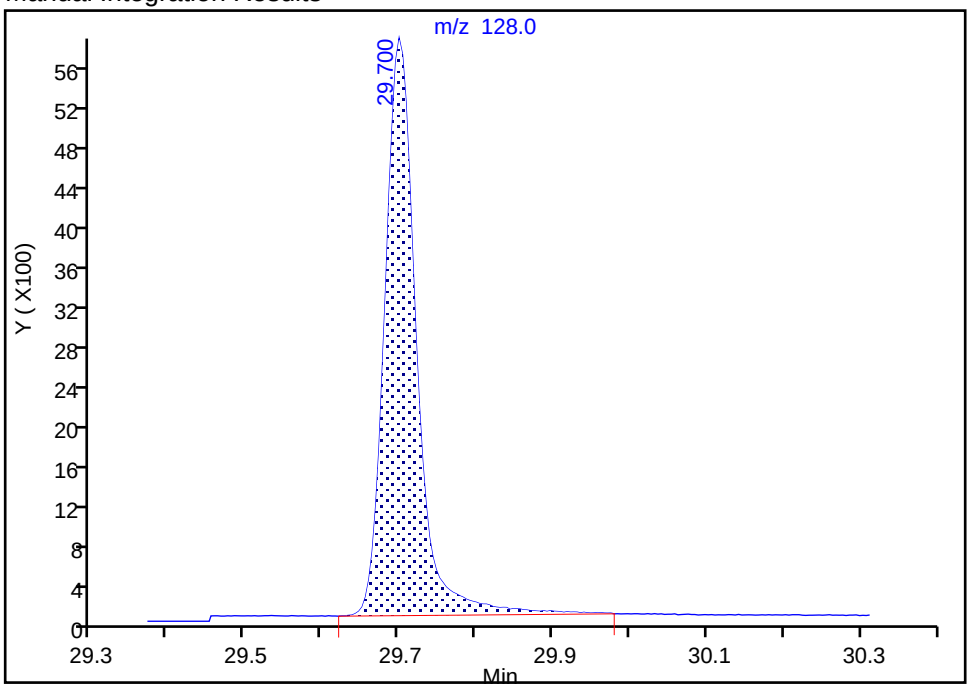
Processing Integration Results

RT: 29.70
Area: 16972
Amount: 0.384872
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 16677
Amount: 0.394563
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:25:40
Audit Action: Manually Integrated Audit Reason: Peak Tail

Report Date: 10-Apr-2018 08:44:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040509.D
Lims ID: ICIS 1.2ppbv
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 05-Apr-2018 20:47:30 ALS Bottle#: 1 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 1.2ppbv (2.5ppbv)
Misc. Info.: 240ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:40 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 10-Apr-2018 08:43:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.370	11.370	0.000	100	49515	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.526	13.526	0.000	1	219082	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.182	0.000	100	190424	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	100	101232	2.00	2.00	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	131199	2.00	1.97	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.745	0.000	1	127398	2.00	2.08	
7 Propene	41	3.763	3.763	0.000	100	80699	1.20	1.12	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	100	118035	1.20	1.12	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	100	67662	1.20	1.16	
10 Chloromethane	50	4.194	4.194	0.000	100	80904	1.20	1.14	
11 Vinyl chloride	62	4.418	4.418	0.000	1	47365	1.20	1.11	
12 Butadiene	39	4.492	4.492	0.000	100	65678	1.20	1.15	
13 Bromomethane	94	5.189	5.189	0.000	100	31913	1.20	1.14	
14 Chloroethane	64	5.368	5.368	0.000	1	24856	1.20	1.15	
15 Trichlorofluoromethane	101	5.962	5.962	0.000	100	102173	1.20	1.14	
16 Isopropyl alcohol	45	6.526	6.526	0.000	0	207792	1.20	1.09	a
17 Acrolein	56	6.593	6.593	0.000	1	30976	1.20	1.13	
18 Acetone	43	6.734	6.734	0.000	1	122274	1.20	1.16	
19 1,1,2-Trichloro-1,2,2-trif	101	6.950	6.950	0.000	100	72686	1.20	1.13	
20 1,1-Dichloroethene	96	7.129	7.129	0.000	100	34604	1.20	1.13	
21 Acetonitrile	41	7.826	7.826	0.000	100	112361	1.20	1.07	
22 Methylene Chloride	49	7.989	7.989	0.000	100	104518	1.20	1.07	
23 Acrylonitrile	53	8.112	8.112	0.000	100	61695	1.20	1.09	
24 Methyl tert-butyl ether	73	8.563	8.563	0.000	100	105908	1.20	1.13	
25 trans-1,2-Dichloroethene	96	8.720	8.720	0.000	100	32592	1.20	1.11	
26 Hexane	41	9.165	9.165	0.000	100	85899	1.20	1.06	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	100	89008	1.20	1.03	
27 Vinyl acetate	43	9.568	9.568	0.000	100	250306	1.20	1.12	
29 2-Butanone (MEK)	72	10.367	10.367	0.000	100	17905	1.20	1.14	
30 cis-1,2-Dichloroethene	96	10.768	10.768	0.000	1	35348	1.20	1.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.812	10.812	0.000	100	189293	1.20	1.13	
32 Chloroform	83	11.117	11.117	0.000	100	77354	1.20	1.04	
33 Tetrahydrofuran	42	11.541	11.541	0.000	100	108413	1.20	1.13	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	82737	1.20	1.10	
35 Cyclohexane	84	12.256	12.256	0.000	100	45886	1.20	1.07	
36 Carbon tetrachloride	117	12.628	12.628	0.000	1	78966	1.20	1.10	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	100	76780	1.20	1.04	
38 Benzene	78	12.886	12.886	0.000	1	114975	1.20	1.03	
39 n-Heptane	43	13.122	13.122	0.000	100	171860	1.20	1.08	
40 Trichloroethene	130	14.273	14.273	0.000	100	48519	1.20	1.05	
41 1,2-Dichloropropane	76	14.565	14.565	0.000	100	20267	1.20	1.07	
42 Dichlorobromomethane	85	15.018	15.018	0.000	19	57579	1.20	1.01	
43 1,4-Dioxane	88	15.048	15.048	0.000	100	23552	1.20	1.09	
44 4-Methyl-2-pentanone (MIBK	43	15.913	15.913	0.000	100	226420	1.20	1.16	
45 cis-1,3-Dichloropropene	75	16.262	16.262	0.000	1	73988	1.20	1.09	
46 Toluene	91	17.072	17.072	0.000	1	139020	1.20	1.08	
47 trans-1,3-Dichloropropene	75	17.350	17.350	0.000	1	62856	1.20	1.08	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	100	45795	1.20	1.09	
49 2-Hexanone	58	17.849	17.849	0.000	100	59410	1.20	1.09	
50 Tetrachloroethene	166	18.600	18.600	0.000	100	68134	1.20	1.05	
51 Chlorodibromomethane	129	18.782	18.782	0.000	100	81618	1.20	1.03	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	65547	1.20	0.9171	
53 Chlorobenzene	112	20.259	20.259	0.000	1	103452	1.20	1.07	
55 Ethylbenzene	91	20.462	20.462	0.000	100	181234	1.20	1.10	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	1	274648	2.40	2.21	
57 o-Xylene	91	21.545	21.545	0.000	1	134374	1.20	1.09	
58 Styrene	104	21.571	21.571	0.000	1	87151	1.20	1.16	
59 Bromoform	173	22.092	22.092	0.000	100	67042	1.20	1.11	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.519	0.000	1	83308	1.20	1.08	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	100	23282	1.20	1.09	
61 4-Ethyltoluene	120	23.428	23.428	0.000	100	48685	1.20	1.13	
62 1,3,5-Trimethylbenzene	120	23.527	23.527	0.000	100	70577	1.20	1.12	
63 1,2,4-Trimethylbenzene	120	24.312	24.312	0.000	100	61326	1.20	1.13	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	1	66648	1.20	1.10	
65 1,4-Dichlorobenzene	146	25.245	25.245	0.000	100	59691	1.20	1.11	
66 Benzyl chloride	91	25.411	25.411	0.000	100	56344	0.9600	0.8239	
67 1,2-Dichlorobenzene	146	25.963	25.963	0.000	1	55772	1.20	1.07	
68 1,2,4-Trichlorobenzene	180	29.271	29.271	0.000	1	18915	1.20	1.05	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	57695	1.20	1.02	
70 Naphthalene	128	29.699	29.699	0.000	1	38994	1.20	0.9241	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 240.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040509.D

Injection Date: 05-Apr-2018 20:47:30 Instrument ID: ATMS5

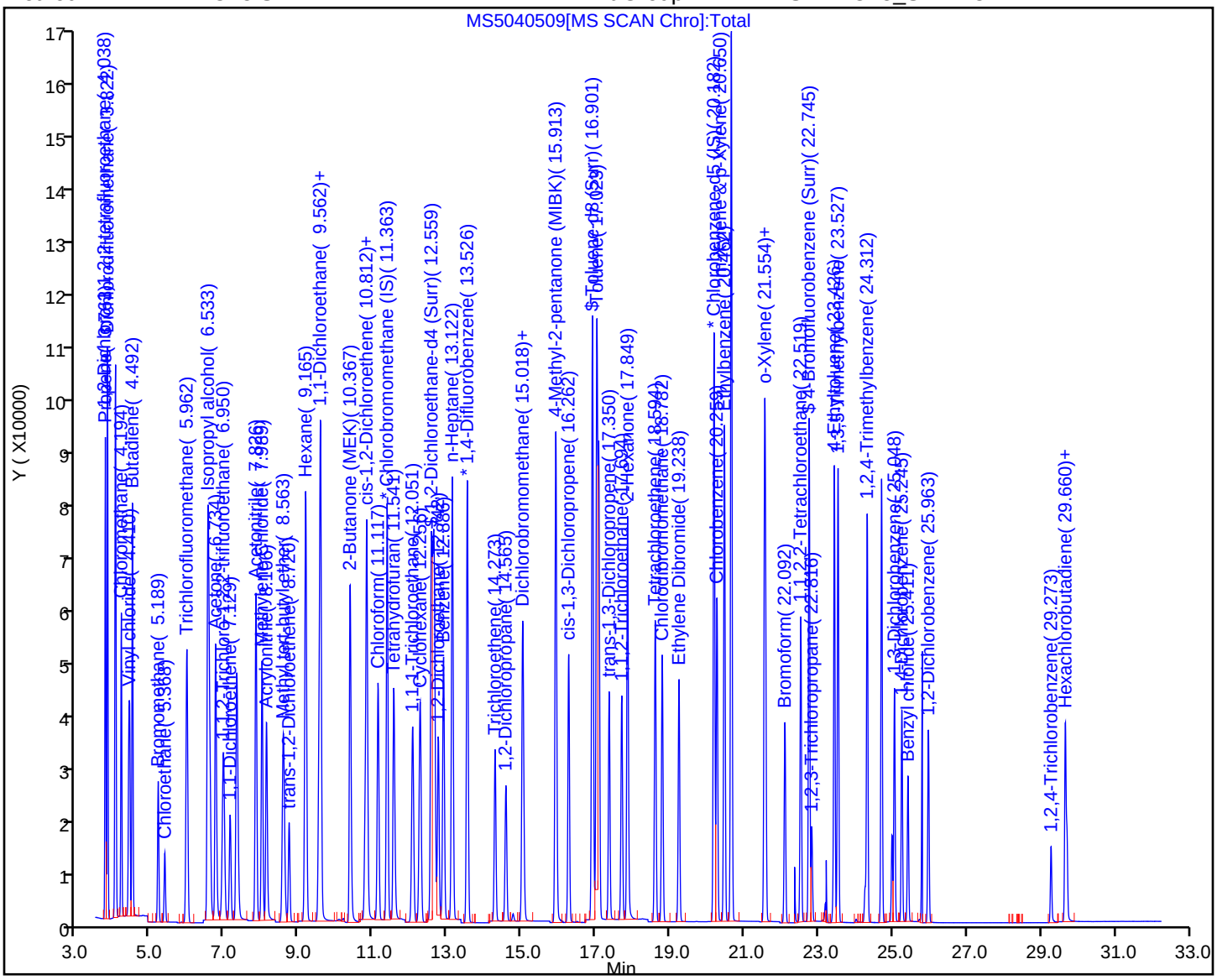
Lims ID: ICIS 1.2ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040510.D
Lims ID: IC 2.5ppbv
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 05-Apr-2018 21:39:30 ALS Bottle#: 1 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 2.5ppbv (2.5ppbv)
Misc. Info.: 500ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:42 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:50:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	99	49390	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.526	13.526	0.000	100	219881	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	203316	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	79	102850	2.00	2.02	
$ 5 Toluene-d8 (Surr)	100	16.901	16.901	0.000	100	134043	2.00	2.00	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	100	146591	2.00	2.24	
7 Propene	41	3.763	3.763	0.000	100	168461	2.50	2.34	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	99	249810	2.50	2.37	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	100	139832	2.50	2.41	
10 Chloromethane	50	4.194	4.194	0.000	100	162072	2.50	2.29	
11 Vinyl chloride	62	4.418	4.418	0.000	100	94874	2.50	2.23	
12 Butadiene	39	4.492	4.492	0.000	98	132103	2.50	2.31	
13 Bromomethane	94	5.184	5.189	-0.005	100	66118	2.50	2.38	
14 Chloroethane	64	5.363	5.368	-0.005	100	51462	2.50	2.39	
15 Trichlorofluoromethane	101	5.958	5.962	-0.004	100	210675	2.50	2.36	
16 Isopropyl alcohol	45	6.518	6.526	-0.008	99	444971	2.50	2.34	a
17 Acrolein	56	6.585	6.593	-0.008	96	66185	2.50	2.42	
18 Acetone	43	6.727	6.734	-0.007	100	261122	2.50	2.55	
19 1,1,2-Trichloro-1,2,2-trif	101	6.942	6.950	-0.008	100	159656	2.50	2.51	
20 1,1-Dichloroethene	96	7.129	7.129	0.000	100	71583	2.50	2.35	
21 Acetonitrile	41	7.826	7.826	0.000	100	251979	2.50	2.41	
22 Methylene Chloride	49	7.989	7.989	0.000	100	228934	2.50	2.34	
23 Acrylonitrile	53	8.106	8.112	-0.006	100	132733	2.50	2.35	
24 Methyl tert-butyl ether	73	8.559	8.563	-0.004	100	226017	2.50	2.41	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	70053	2.50	2.40	
26 Hexane	41	9.158	9.165	-0.007	99	195478	2.50	2.41	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	86	204933	2.50	2.38	
27 Vinyl acetate	43	9.562	9.568	-0.006	100	549257	2.50	2.47	
29 2-Butanone (MEK)	72	10.358	10.367	-0.009	100	39659	2.50	2.53	
30 cis-1,2-Dichloroethene	96	10.767	10.768	-0.001	90	80998	2.50	2.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.805	10.812	-0.007	100	410983	2.50	2.45	
32 Chloroform	83	11.117	11.117	0.000	100	174935	2.50	2.35	
33 Tetrahydrofuran	42	11.534	11.541	-0.007	100	234256	2.50	2.44	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	189307	2.50	2.53	
35 Cyclohexane	84	12.252	12.256	-0.004	100	105589	2.50	2.46	
36 Carbon tetrachloride	117	12.628	12.628	0.000	78	181692	2.50	2.54	
37 1,2-Dichloroethane	62	12.742	12.742	0.000	100	171872	2.50	2.32	
38 Benzene	78	12.886	12.886	0.000	100	259277	2.50	2.31	
39 n-Heptane	43	13.122	13.122	0.000	100	381978	2.50	2.40	
40 Trichloroethene	130	14.273	14.273	0.000	100	108214	2.50	2.33	
41 1,2-Dichloropropane	76	14.565	14.565	0.000	100	44500	2.50	2.35	
42 Dichlorobromomethane	85	15.018	15.018	0.000	98	127763	2.50	2.23	
43 1,4-Dioxane	88	15.040	15.048	-0.008	89	56050	2.50	2.58	
44 4-Methyl-2-pentanone (MIBK	43	15.911	15.913	-0.002	100	507861	2.50	2.59	
45 cis-1,3-Dichloropropene	75	16.262	16.262	0.000	99	166632	2.50	2.44	
46 Toluene	91	17.072	17.072	0.000	100	303174	2.50	2.34	
47 trans-1,3-Dichloropropene	75	17.358	17.350	0.008	100	142191	2.50	2.29	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	99	99982	2.50	2.23	
49 2-Hexanone	58	17.849	17.849	0.000	100	159984	2.50	2.76	
50 Tetrachloroethene	166	18.600	18.600	0.000	100	149798	2.50	2.17	
51 Chlorodibromomethane	129	18.789	18.782	0.007	100	180642	2.50	2.14	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	148072	2.50	1.94	
53 Chlorobenzene	112	20.264	20.259	0.005	99	227533	2.50	2.21	
55 Ethylbenzene	91	20.462	20.462	0.000	100	393122	2.50	2.23	
56 m-Xylene & p-Xylene	91	20.650	20.650	0.000	100	601103	5.00	4.53	
57 o-Xylene	91	21.545	21.545	0.000	100	297659	2.50	2.27	
58 Styrene	104	21.575	21.571	0.004	98	204496	2.50	2.54	
59 Bromoform	173	22.094	22.092	0.002	100	153328	2.50	2.37	
54 1,1,2,2-Tetrachloroethane	83	22.524	22.519	0.005	100	186840	2.50	2.26	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	100	52476	2.50	2.30	
61 4-Ethyltoluene	120	23.428	23.428	0.000	100	110771	2.50	2.41	
62 1,3,5-Trimethylbenzene	120	23.529	23.527	0.002	100	158077	2.50	2.36	
63 1,2,4-Trimethylbenzene	120	24.314	24.312	0.002	100	142502	2.50	2.46	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	100	162128	2.50	2.51	
65 1,4-Dichlorobenzene	146	25.249	25.245	0.004	100	147927	2.50	2.57	
66 Benzyl chloride	91	25.415	25.411	0.004	100	154609	2.00	2.12	
67 1,2-Dichlorobenzene	146	25.965	25.963	0.002	100	137133	2.50	2.46	
68 1,2,4-Trichlorobenzene	180	29.273	29.271	0.002	100	54369	2.50	2.84	
69 Hexachlorobutadiene	225	29.660	29.656	0.004	100	134425	2.50	2.22	
70 Naphthalene	128	29.699	29.699	0.000	1	111115	2.50	2.47	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 500.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040510.D

Injection Date: 05-Apr-2018 21:39:30 Instrument ID: ATMS5

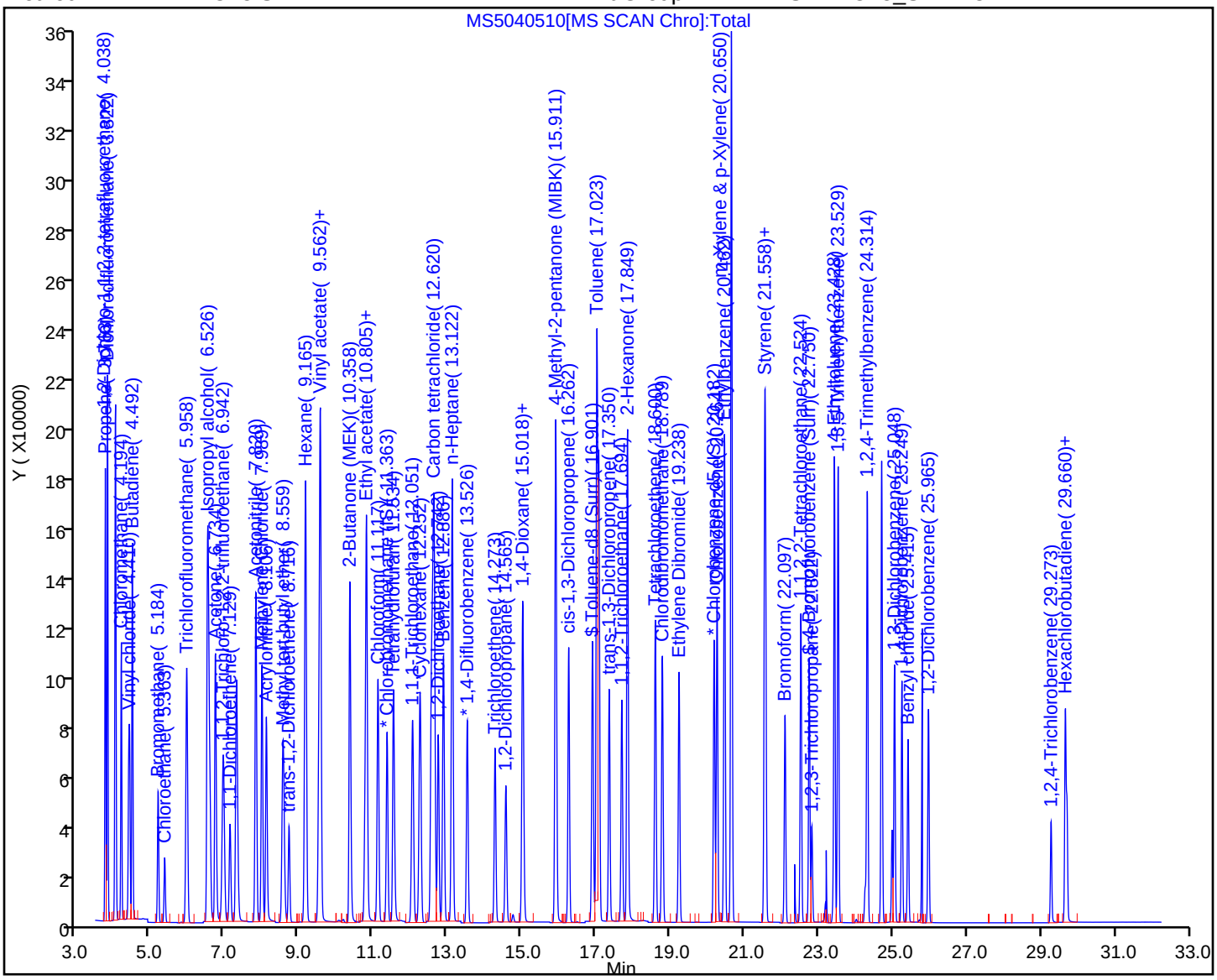
Lims ID: IC 2.5ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

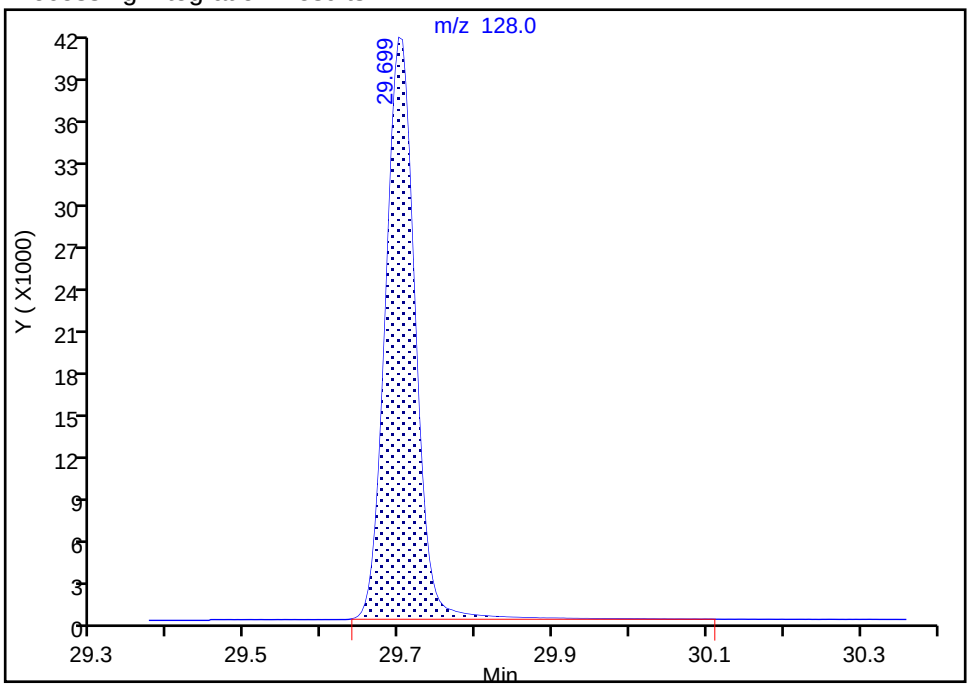
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040510.D
Injection Date: 05-Apr-2018 21:39:30 Instrument ID: ATMS5
Lims ID: IC 2.5ppbv
Client ID:
Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

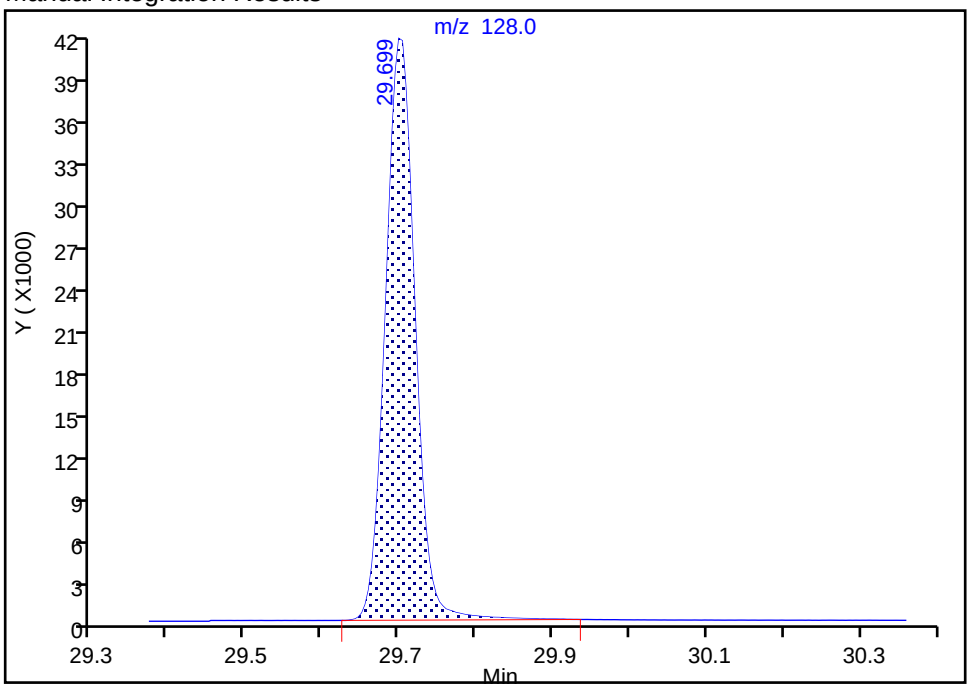
Processing Integration Results

RT: 29.70
Area: 111555
Amount: 2.366565
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 111115
Amount: 2.466419
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:29:26
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D
Lims ID: IC 5ppbv
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 05-Apr-2018 22:36:30 ALS Bottle#: 1 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 5.0ppbv (2.5ppbv)
Misc. Info.: 1000ML
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:44 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 09:51:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.370	11.370	0.000	100	54134	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.530	13.526	0.004	100	244104	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	239212	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.551	12.552	-0.001	55	113780	2.00	2.01	
$ 5 Toluene-d8 (Surr)	100	16.909	16.901	0.008	100	147844	2.00	1.99	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	100	185524	2.00	2.41	
7 Propene	41	3.763	3.763	0.000	99	349953	5.00	4.44	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	100	523017	5.00	4.53	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	99	302872	5.00	4.77	
10 Chloromethane	50	4.194	4.194	0.000	100	349560	5.00	4.50	
11 Vinyl chloride	62	4.425	4.418	0.007	99	213590	5.00	4.59	
12 Butadiene	39	4.492	4.492	0.000	98	283003	5.00	4.52	
13 Bromomethane	94	5.188	5.189	-0.001	100	143292	5.00	4.70	
14 Chloroethane	64	5.368	5.368	0.000	100	112192	5.00	4.75	
15 Trichlorofluoromethane	101	5.962	5.962	0.000	100	455261	5.00	4.64	
16 Isopropyl alcohol	45	6.518	6.526	-0.008	99	951344	5.00	4.56	a
17 Acrolein	56	6.585	6.593	-0.008	95	144925	5.00	4.84	
18 Acetone	43	6.726	6.734	-0.008	100	554839	5.00	4.98	
19 1,1,2-Trichloro-1,2,2-trif	101	6.942	6.950	-0.008	100	348199	5.00	5.01	
20 1,1-Dichloroethene	96	7.128	7.129	-0.001	100	157259	5.00	4.71	
21 Acetonitrile	41	7.826	7.826	0.000	100	543560	5.00	4.75	
22 Methylene Chloride	49	7.989	7.989	0.000	100	489386	5.00	4.57	
23 Acrylonitrile	53	8.106	8.112	-0.006	100	293059	5.00	4.73	
24 Methyl tert-butyl ether	73	8.554	8.563	-0.009	100	495724	5.00	4.83	
25 trans-1,2-Dichloroethene	96	8.720	8.720	0.000	100	153936	5.00	4.80	
26 Hexane	41	9.164	9.165	-0.001	100	416785	5.00	4.68	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	90	444958	5.00	4.71	
27 Vinyl acetate	43	9.568	9.568	0.000	100	1189781	5.00	4.88	
29 2-Butanone (MEK)	72	10.358	10.367	-0.009	100	87784	5.00	5.10	
30 cis-1,2-Dichloroethene	96	10.775	10.768	0.007	63	176954	5.00	4.77	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.805	10.812	-0.008	100	884721	5.00	4.82	
32 Chloroform	83	11.117	11.117	0.000	100	379127	5.00	4.66	
33 Tetrahydrofuran	42	11.534	11.541	-0.007	100	499899	5.00	4.76	
34 1,1,1-Trichloroethane	97	12.051	12.051	0.000	100	410014	5.00	5.01	
35 Cyclohexane	84	12.256	12.256	0.000	100	232710	5.00	4.96	
36 Carbon tetrachloride	117	12.628	12.628	0.000	84	392792	5.00	4.95	
37 1,2-Dichloroethane	62	12.749	12.742	0.007	100	370638	5.00	4.52	
38 Benzene	78	12.886	12.886	0.000	100	562491	5.00	4.51	
39 n-Heptane	43	13.122	13.122	0.000	100	815045	5.00	4.60	
40 Trichloroethene	130	14.280	14.273	0.007	100	234499	5.00	4.54	
41 1,2-Dichloropropane	76	14.572	14.565	0.007	100	95798	5.00	4.56	
42 Dichlorobromomethane	85	15.018	15.018	0.000	97	277684	5.00	4.37	
43 1,4-Dioxane	88	15.040	15.048	-0.008	84	123225	5.00	5.10	
44 4-Methyl-2-pentanone (MIBK	43	15.910	15.913	-0.003	100	1099441	5.00	5.06	
45 cis-1,3-Dichloropropene	75	16.264	16.262	0.002	100	368830	5.00	4.87	
46 Toluene	91	17.080	17.072	0.008	100	656152	5.00	4.57	
47 trans-1,3-Dichloropropene	75	17.358	17.350	0.008	99	313132	5.00	4.28	
48 1,1,2-Trichloroethane	97	17.693	17.694	-0.001	99	218612	5.00	4.15	
49 2-Hexanone	58	17.849	17.849	0.000	100	367432	5.00	5.39	
50 Tetrachloroethene	166	18.600	18.600	0.000	100	325797	5.00	4.01	
51 Chlorodibromomethane	129	18.789	18.782	0.006	100	396091	5.00	3.99	
52 Ethylene Dibromide	107	19.237	19.238	-0.001	100	326300	5.00	3.63	
53 Chlorobenzene	112	20.264	20.259	0.005	99	487690	5.00	4.02	
55 Ethylbenzene	91	20.462	20.462	0.000	100	840381	5.00	4.06	
56 m-Xylene & p-Xylene	91	20.649	20.650	-0.001	100	1294916	10.0	8.29	
57 o-Xylene	91	21.549	21.545	0.004	99	631089	5.00	4.09	
58 Styrene	104	21.575	21.571	0.004	97	447786	5.00	4.73	
59 Bromoform	173	22.096	22.092	0.004	100	331193	5.00	4.36	
54 1,1,2,2-Tetrachloroethane	83	22.524	22.519	0.005	100	399451	5.00	4.11	
60 1,2,3-Trichloropropane	110	22.821	22.822	-0.001	99	114156	5.00	4.25	
61 4-Ethyltoluene	120	23.431	23.428	0.002	100	240657	5.00	4.45	
62 1,3,5-Trimethylbenzene	120	23.529	23.527	0.002	100	340987	5.00	4.32	
63 1,2,4-Trimethylbenzene	120	24.316	24.312	0.004	100	305029	5.00	4.48	
64 1,3-Dichlorobenzene	146	25.052	25.048	0.004	100	346524	5.00	4.56	
65 1,4-Dichlorobenzene	146	25.249	25.245	0.004	100	320665	5.00	4.74	
66 Benzyl chloride	91	25.415	25.411	0.004	100	344344	4.00	4.01	
67 1,2-Dichlorobenzene	146	25.965	25.963	0.002	100	287792	5.00	4.40	
68 1,2,4-Trichlorobenzene	180	29.273	29.271	0.002	100	123839	5.00	5.49	
69 Hexachlorobutadiene	225	29.660	29.656	0.004	100	290710	5.00	4.09	
70 Naphthalene	128	29.704	29.699	0.005	1	258132	5.00	4.87	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 1000.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Injection Date: 05-Apr-2018 22:36:30 Instrument ID: ATMS5

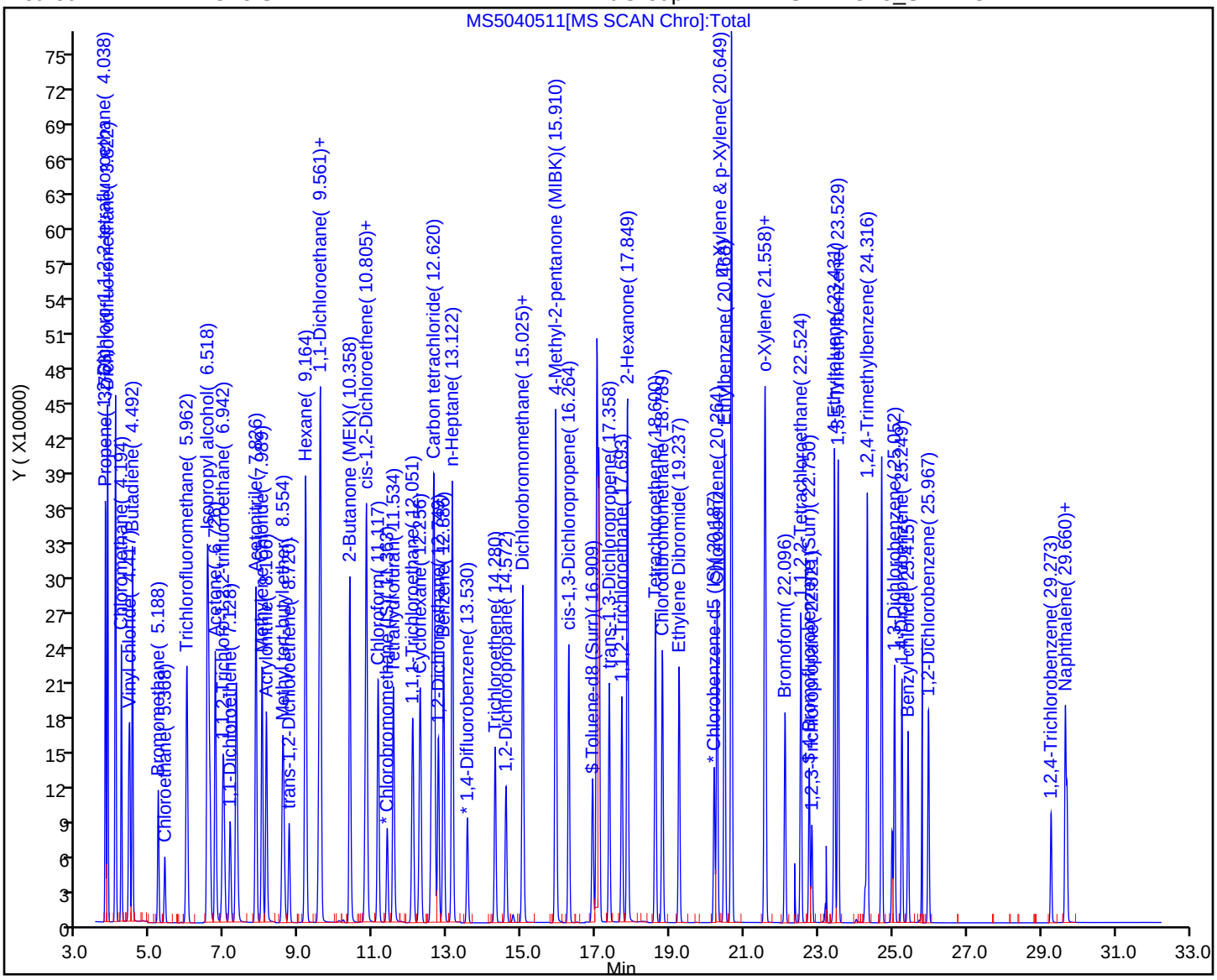
Lims ID: IC 5ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

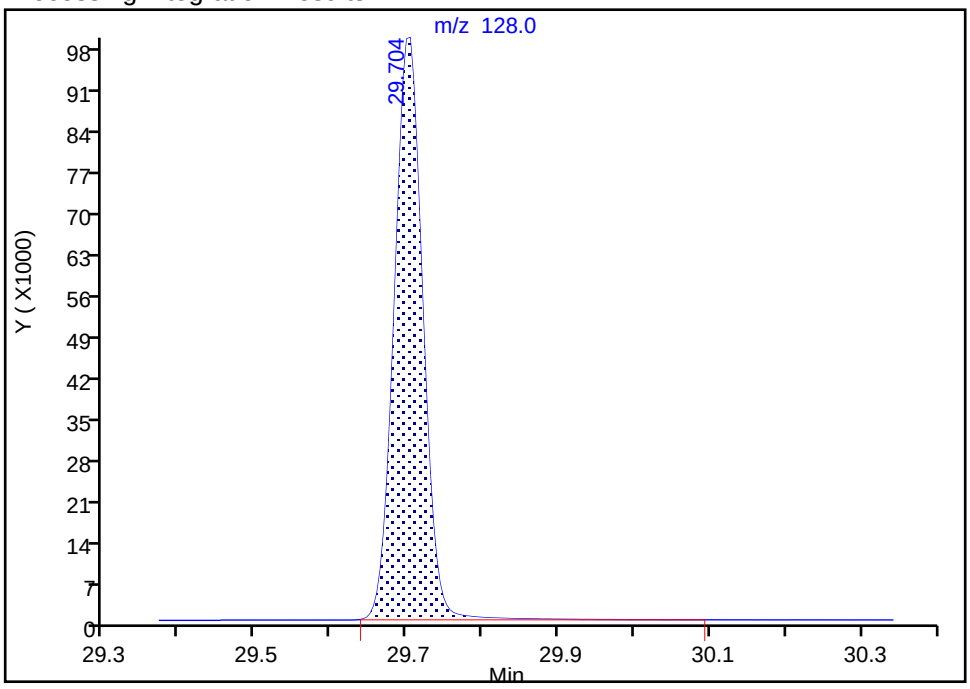
Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D
Injection Date: 05-Apr-2018 22:36:30 Instrument ID: ATMS5
Lims ID: IC 5ppbv
Client ID:
Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

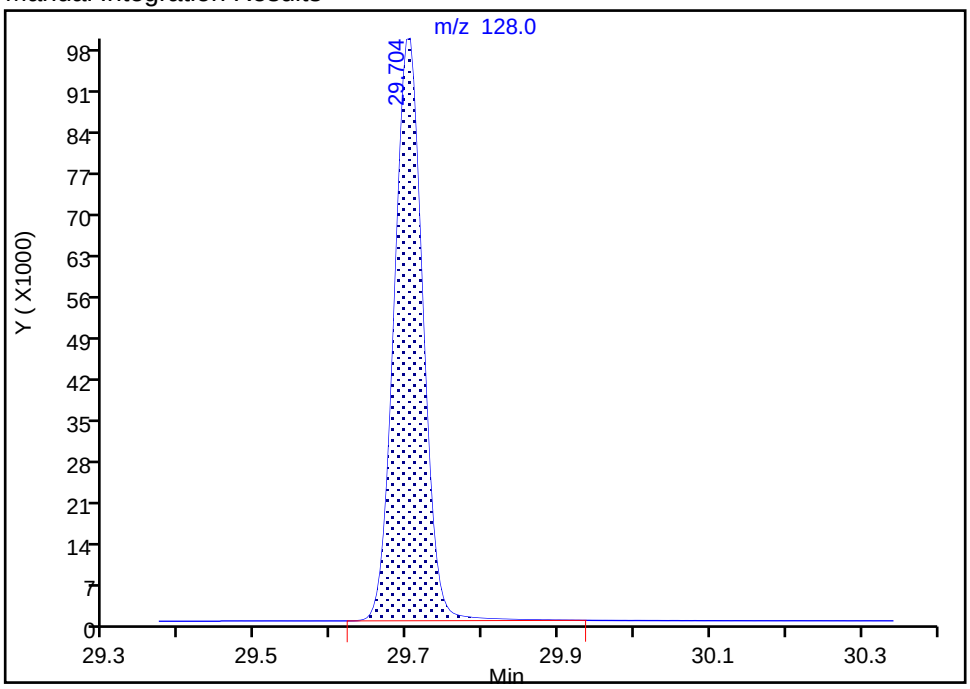
Processing Integration Results

RT: 29.70
Area: 258634
Amount: 4.634349
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 258132
Amount: 4.869951
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:29:52
Audit Action: Manually Integrated Audit Reason: Peak Tail

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID (1): CCVIS 320-217160/2 Instrument ID (1): ATMS5

GC Column (1): RTX-Volatiles ID: 0.32(mm) Date Analyzed (1): 04/10/2018 10:02

ANALYTE	RT	RESOLUTION (%)
Vinyl chloride	4.42	100.0
1,1-Dichloroethene	7.13	100.0
Methylene Chloride	7.99	100.0
cis-1,2-Dichloroethene	10.78	100.0
1,1,1-Trichloroethane	12.06	100.0
1,2-Dichloroethane-d4 (Surr)	12.55	100.0
Carbon tetrachloride	12.63	100.0
Benzene	12.89	100.0
Trichloroethene	14.28	100.0
1,4-Dioxane	15.05	100.0
Toluene-d8 (Surr)	16.91	100.0
Tetrachloroethene	18.60	100.0
4-Bromofluorobenzene (Surr)	22.75	100.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: ICV 320-216538/14 Calibration Date: 04/06/2018 01:12

Instrument ID: ATMS5 Calib Start Date: 04/05/2018 14:51

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 04/05/2018 22:36

Lab File ID: MS5040514.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	4.270	3.910		1.10	1.20	-8.4	30.0
Chloromethane	Ave	2.869	2.587		1.08	1.20	-9.8	30.0
Vinyl chloride	Ave	1.720	1.544		1.08	1.20	-10.2	30.0
Butadiene	Ave	2.312	2.120		1.10	1.20	-8.3	30.0
Chloroethane	Ave	0.8726	0.8517		1.17	1.20	-2.4	30.0
Trichlorofluoromethane	Ave	3.621	3.477		1.15	1.20	-4.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		2.527		1.17	1.20	-2.5	30.0
1,1-Dichloroethene	Ave	1.233	1.199		1.17	1.20	-2.8	30.0
Methylene Chloride	Ave	3.960	3.659		1.11	1.20	-7.6	30.0
Methyl tert-butyl ether	Ave	3.790	3.771		1.19	1.20	-0.5	30.0
trans-1,2-Dichloroethene	Ave	1.184	1.262		1.28	1.20	6.6	30.0
1,1-Dichloroethane	Ave	3.491	3.213		1.10	1.20	-8.0	30.0
cis-1,2-Dichloroethene	Ave	1.371	1.292		1.13	1.20	-5.8	30.0
Chloroform	Ave	3.008	2.741		1.09	1.20	-8.9	30.0
1,1,1-Trichloroethane	Lin		2.925		1.15	1.20	-3.9	30.0
Carbon tetrachloride	Lin		0.3993		0.729	1.20	-39.2*	30.0
1,2-Dichloroethane	Ave	0.6725	0.6195		1.11	1.20	-7.9	30.0
Benzene	Ave	1.021	0.9257		1.09	1.20	-9.3	30.0
Trichloroethene	Ave	0.4231	0.4021		1.14	1.20	-5.0	30.0
1,2-Dichloropropane	Ave	0.1723	0.1591		1.11	1.20	-7.7	30.0
Bromodichloromethane	Ave	0.5209	0.4551		1.05	1.20	-12.6	30.0
1,4-Dioxane	Ave	0.1979	0.1789		1.08	1.20	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.6202	0.5145		0.996	1.20	-17.0	30.0
Toluene	Ave	1.177	1.110		1.13	1.20	-5.7	30.0
trans-1,3-Dichloropropene	Ave	0.6113	0.6154		1.21	1.20	0.7	30.0
1,1,2-Trichloroethane	Ave	0.4401	0.4372		1.19	1.20	-0.7	30.0
Tetrachloroethene	Ave	0.6789	0.6608		1.17	1.20	-2.7	30.0
Dibromochloromethane	Ave	0.8300	0.7242		1.05	1.20	-12.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.7507	0.6296		1.01	1.20	-16.1	30.0
Chlorobenzene	Ave	1.013	0.9834		1.16	1.20	-3.0	30.0
Ethylbenzene	Ave	1.731	1.721		1.19	1.20	-0.6	30.0
m-Xylene & p-Xylene	Ave	1.306	1.294		2.38	2.40	-0.9	30.0
o-Xylene	Ave	1.290	1.279		1.19	1.20	-0.9	30.0
Styrene	Ave	0.7908	0.7956		1.21	1.20	0.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8118	0.7789		1.15	1.20	-4.1	30.0
1,2,3-Trichloropropane	Ave	0.2248	0.2233		1.19	1.20	-0.7	30.0
1,3-Dichlorobenzene	Ave	0.6352	0.6081		1.15	1.20	-4.3	30.0
1,4-Dichlorobenzene	Ave	0.5653	0.5306		1.13	1.20	-6.1	30.0
Benzyl chloride	Ave	0.7182	0.5937		0.793	0.960	-17.3	30.0
1,2-Dichlorobenzene	Ave	0.5474	0.4889		1.07	1.20	-10.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: ICV 320-216538/14 Calibration Date: 04/06/2018 01:12

Instrument ID: ATMS5 Calib Start Date: 04/05/2018 14:51

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 04/05/2018 22:36

Lab File ID: MS5040514.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.1886	0.1352		0.860	1.20	-28.3	30.0
Hexachlorobutadiene	Ave	0.5946	0.4275		0.863	1.20	-28.1	30.0
Naphthalene	Ave	0.4432	0.2920		0.791	1.20	-34.1*	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4630	0.4576		1.98	2.00	-1.2	30.0
Toluene-d8 (Surr)	Ave	0.6084	0.6007		1.97	2.00	-1.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6263		1.95	2.00	-2.6	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040514.D
Lims ID: ICV 1.2ppbv
Client ID:
Sample Type: ICV
Inject. Date: 06-Apr-2018 01:12:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICV 1.2ppbv (2.5ppbv)
Misc. Info.: 240ML
Operator ID: SV Instrument ID: ATMS5
Sublist:

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 10-Apr-2018 08:44:44 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: vanommens Date: 06-Apr-2018 10:10:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.370	11.370	0.000	100	52803	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.530	13.526	0.004	100	231383	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.187	20.182	0.005	100	190302	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.551	12.552	-0.001	94	105874	2.00	1.98	
$ 5 Toluene-d8 (Surr)	100	16.909	16.901	0.008	100	139000	2.00	1.97	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.745	0.005	100	119187	2.00	1.95	
7 Propene	41	3.763	3.763	0.000	99	76330	1.20	0.99	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	99	123862	1.20	1.10	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	99	73564	1.20	1.19	
10 Chloromethane	50	4.194	4.194	0.000	100	81974	1.20	1.08	
11 Vinyl chloride	62	4.417	4.418	-0.001	99	48931	1.20	1.08	
12 Butadiene	39	4.492	4.492	0.000	97	67157	1.20	1.10	
13 Bromomethane	94	5.188	5.189	-0.001	100	33223	1.20	1.12	
14 Chloroethane	64	5.363	5.368	-0.005	100	26984	1.20	1.17	
15 Trichlorofluoromethane	101	5.958	5.962	-0.004	100	110152	1.20	1.15	
16 Isopropyl alcohol	45	6.526	6.526	0.000	99	203037	1.20	1.00	a
17 Acrolein	56	6.593	6.593	0.000	98	27296	1.20	0.9353	
18 Acetone	43	6.734	6.734	0.000	100	137164	1.20	1.23	
19 1,1,2-Trichloro-1,2,2-trif	101	6.942	6.950	-0.008	100	80075	1.20	1.17	
20 1,1-Dichloroethene	96	7.128	7.129	-0.001	100	37980	1.20	1.17	
21 Acetonitrile	41	7.826	7.826	0.000	100	114483	1.20	1.03	
22 Methylene Chloride	49	7.989	7.989	0.000	100	115911	1.20	1.11	
23 Acrylonitrile	53	8.106	8.112	-0.006	100	68937	1.20	1.14	
24 Methyl tert-butyl ether	73	8.563	8.563	0.000	100	119462	1.20	1.19	
25 trans-1,2-Dichloroethene	96	8.720	8.720	0.000	100	39976	1.20	1.28	
26 Hexane	41	9.164	9.165	-0.001	100	105218	1.20	1.21	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	94	101780	1.20	1.10	
27 Vinyl acetate	43	9.568	9.568	0.000	100	247603	1.20	1.04	
29 2-Butanone (MEK)	72	10.367	10.367	0.000	100	19854	1.20	1.18	
30 cis-1,2-Dichloroethene	96	10.767	10.768	-0.001	99	40930	1.20	1.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.812	10.812	0.000	99	220317	1.20	1.23	
32 Chloroform	83	11.117	11.117	0.000	100	86847	1.20	1.09	
33 Tetrahydrofuran	42	11.549	11.541	0.008	100	118982	1.20	1.16	
34 1,1,1-Trichloroethane	97	12.055	12.051	0.004	100	92669	1.20	1.15	
35 Cyclohexane	84	12.260	12.256	0.004	100	54591	1.20	1.19	
36 Carbon tetrachloride	117	12.628	12.628	0.000	90	55432	1.20	0.7291	
37 1,2-Dichloroethane	62	12.749	12.742	0.007	100	86007	1.20	1.11	
38 Benzene	78	12.886	12.886	0.000	99	128511	1.20	1.09	
39 n-Heptane	43	13.130	13.122	0.008	100	190483	1.20	1.14	
40 Trichloroethene	130	14.280	14.273	0.007	100	55827	1.20	1.14	
41 1,2-Dichloropropane	76	14.572	14.565	0.007	100	22083	1.20	1.11	
42 Dichlorobromomethane	85	15.018	15.018	0.000	99	63185	1.20	1.05	
43 1,4-Dioxane	88	15.047	15.048	-0.001	91	24836	1.20	1.08	
44 4-Methyl-2-pentanone (MIBK	43	15.919	15.913	0.006	100	223146	1.20	1.08	
45 cis-1,3-Dichloropropene	75	16.266	16.262	0.004	100	71426	1.20	1.00	
46 Toluene	91	17.080	17.072	0.008	100	154042	1.20	1.13	
47 trans-1,3-Dichloropropene	75	17.358	17.350	0.008	100	70262	1.20	1.21	
48 1,1,2-Trichloroethane	97	17.702	17.694	0.008	100	49917	1.20	1.19	
49 2-Hexanone	58	17.857	17.849	0.008	100	62772	1.20	1.16	
50 Tetrachloroethene	166	18.600	18.600	0.000	100	75453	1.20	1.17	
51 Chlorodibromomethane	129	18.789	18.782	0.007	100	82690	1.20	1.05	
52 Ethylene Dibromide	107	19.238	19.238	0.000	100	71889	1.20	1.01	
53 Chlorobenzene	112	20.264	20.259	0.005	99	112288	1.20	1.16	
55 Ethylbenzene	91	20.468	20.462	0.006	100	196481	1.20	1.19	
56 m-Xylene & p-Xylene	91	20.649	20.650	-0.001	100	295507	2.40	2.38	
57 o-Xylene	91	21.549	21.545	0.004	100	146007	1.20	1.19	
58 Styrene	104	21.575	21.571	0.004	94	90845	1.20	1.21	
59 Bromoform	173	22.096	22.092	0.004	100	64350	1.20	1.06	
54 1,1,2,2-Tetrachloroethane	83	22.524	22.519	0.005	100	88935	1.20	1.15	
60 1,2,3-Trichloropropane	110	22.821	22.822	-0.001	99	25496	1.20	1.19	
61 4-Ethyltoluene	120	23.431	23.428	0.003	100	53412	1.20	1.24	
62 1,3,5-Trimethylbenzene	120	23.529	23.527	0.002	100	75467	1.20	1.20	
63 1,2,4-Trimethylbenzene	120	24.316	24.312	0.004	100	63246	1.20	1.17	
64 1,3-Dichlorobenzene	146	25.048	25.048	0.000	100	69438	1.20	1.15	
65 1,4-Dichlorobenzene	146	25.249	25.245	0.004	100	60586	1.20	1.13	
66 Benzyl chloride	91	25.415	25.411	0.004	100	54227	0.9600	0.7935	
67 1,2-Dichlorobenzene	146	25.965	25.963	0.002	100	55819	1.20	1.07	
68 1,2,4-Trichlorobenzene	180	29.273	29.271	0.002	100	15432	1.20	0.8599	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	48809	1.20	0.8627	
70 Naphthalene	128	29.704	29.699	0.005	1	33345	1.20	0.7908	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPLC2.5_00183	Amount Added: 240.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 10-Apr-2018 08:44:47 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040514.D

Injection Date: 06-Apr-2018 01:12:30 Instrument ID: ATMS5

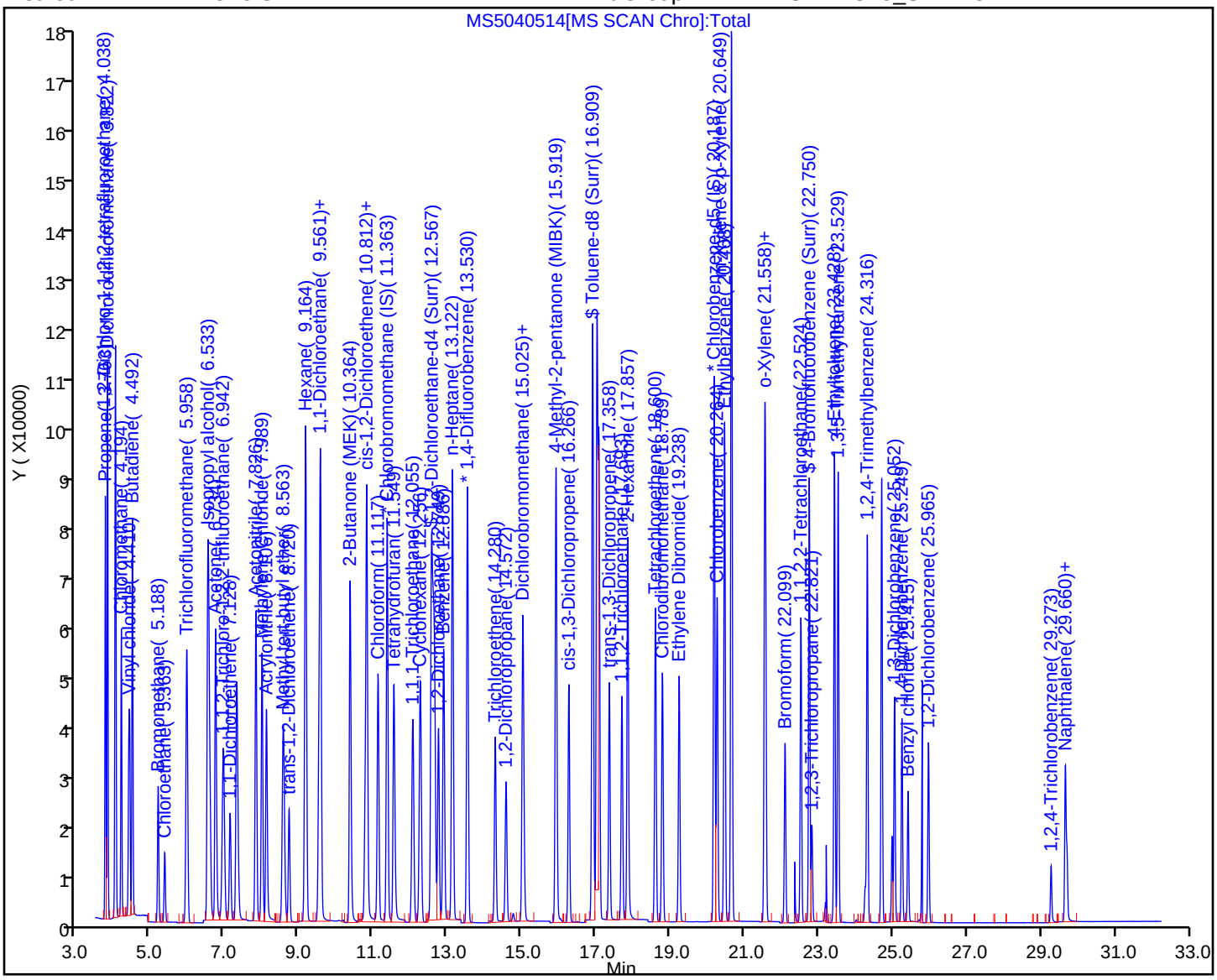
Lims ID: ICV 1.2ppbv

Client ID:

Operator ID: SV ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

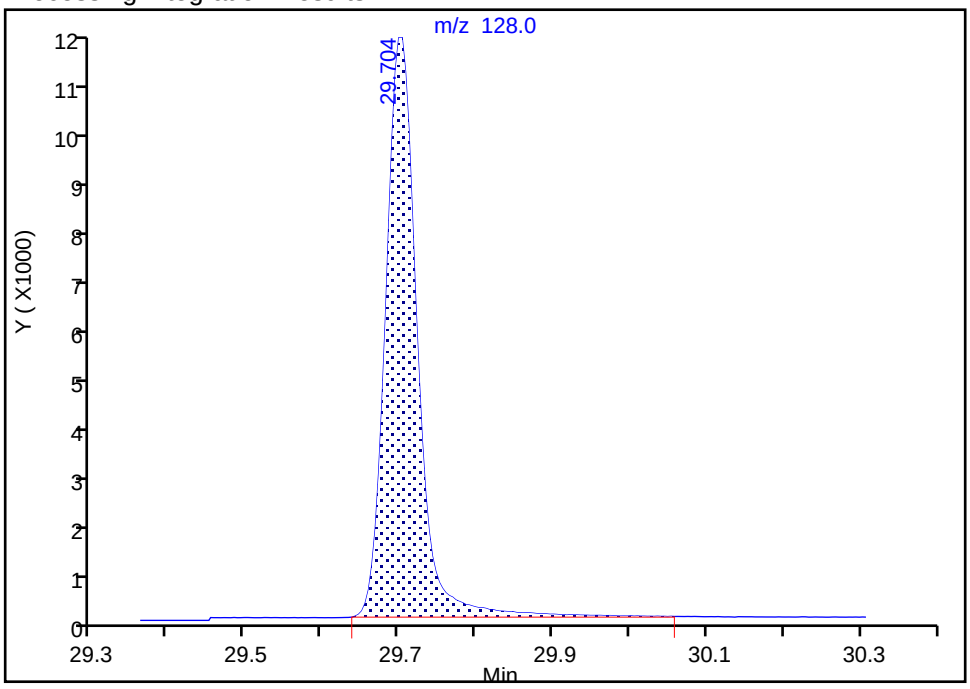
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Injection Date: 06-Apr-2018 01:12:30 Instrument ID: ATMS5
Lims ID: ICV 1.2ppbv
Client ID:
Operator ID: SV ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

70 Naphthalene, CAS: 91-20-3

Signal: 1

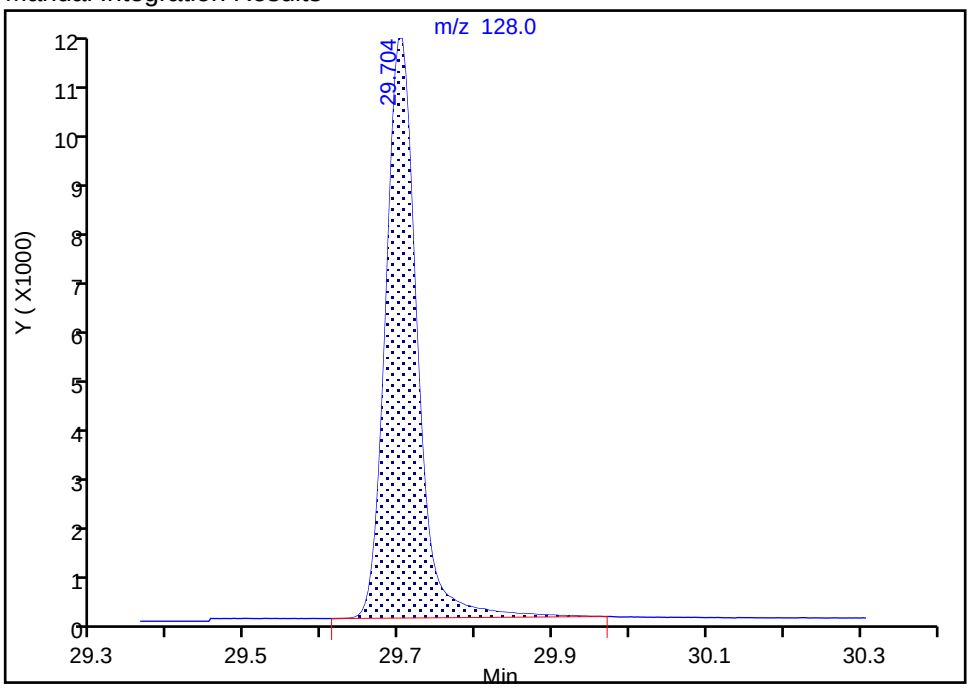
Processing Integration Results

RT: 29.70
Area: 33653
Amount: 0.745991
Amount Units: ppb v/v



Manual Integration Results

RT: 29.70
Area: 33345
Amount: 0.790775
Amount Units: ppb v/v



Reviewer: vanommens, 06-Apr-2018 10:30:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVIS 320-217160/2 Calibration Date: 04/10/2018 10:02

Instrument ID: ATMS5 Calib Start Date: 04/05/2018 14:51

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 04/05/2018 22:36

Lab File ID: 18041002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	4.270	3.869		1.09	1.20	-9.4	30.0
Chloromethane	Ave	2.869	2.594		1.08	1.20	-9.6	30.0
Vinyl chloride	Ave	1.720	1.548		1.08	1.20	-10.0	30.0
Butadiene	Ave	2.312	2.077		1.08	1.20	-10.2	30.0
Chloroethane	Ave	0.8726	0.8358		1.15	1.20	-4.2	30.0
Trichlorofluoromethane	Ave	3.621	3.383		1.12	1.20	-6.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		2.615		1.21	1.20	0.9	30.0
1,1-Dichloroethene	Ave	1.233	1.158		1.13	1.20	-6.1	30.0
Methylene Chloride	Ave	3.960	3.689		1.12	1.20	-6.8	30.0
Methyl tert-butyl ether	Ave	3.790	3.598		1.14	1.20	-5.1	30.0
trans-1,2-Dichloroethene	Ave	1.184	1.123		1.14	1.20	-5.1	30.0
1,1-Dichloroethane	Ave	3.491	3.269		1.12	1.20	-6.4	30.0
cis-1,2-Dichloroethene	Ave	1.371	1.286		1.13	1.20	-6.2	30.0
Chloroform	Ave	3.008	2.790		1.11	1.20	-7.2	30.0
1,1,1-Trichloroethane	Lin		3.033		1.20	1.20	-0.3	30.0
Carbon tetrachloride	Lin		0.6305		1.16	1.20	-3.6	30.0
1,2-Dichloroethane	Ave	0.6725	0.5903		1.05	1.20	-12.2	30.0
Benzene	Ave	1.021	0.8994		1.06	1.20	-11.9	30.0
Trichloroethene	Ave	0.4231	0.3745		1.06	1.20	-11.5	30.0
1,2-Dichloropropane	Ave	0.1723	0.1540		1.07	1.20	-10.6	30.0
Bromodichloromethane	Ave	0.5209	0.4404		1.01	1.20	-15.5	30.0
1,4-Dioxane	Ave	0.1979	0.1695		1.03	1.20	-14.3	30.0
cis-1,3-Dichloropropene	Ave	0.6202	0.5553		1.07	1.20	-10.5	30.0
Toluene	Ave	1.177	1.044		1.06	1.20	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.6113	0.5491		1.08	1.20	-10.2	30.0
1,1,2-Trichloroethane	Ave	0.4401	0.4038		1.10	1.20	-8.2	30.0
Tetrachloroethene	Ave	0.6789	0.6101		1.08	1.20	-10.1	30.0
Dibromochloromethane	Ave	0.8300	0.7241		1.05	1.20	-12.8	30.0
1,2-Dibromoethane (EDB)	Ave	0.7507	0.5834		0.933	1.20	-22.3	30.0
Chlorobenzene	Ave	1.013	0.9263		1.10	1.20	-8.6	30.0
Ethylbenzene	Ave	1.731	1.609		1.12	1.20	-7.0	30.0
m-Xylene & p-Xylene	Ave	1.306	1.220		2.24	2.40	-6.6	30.0
o-Xylene	Ave	1.290	1.201		1.12	1.20	-6.9	30.0
Styrene	Ave	0.7908	0.8004		1.21	1.20	1.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8118	0.7592		1.12	1.20	-6.5	30.0
1,2,3-Trichloropropane	Ave	0.2248	0.2161		1.15	1.20	-3.9	30.0
1,3-Dichlorobenzene	Ave	0.6352	0.6432		1.22	1.20	1.3	30.0
1,4-Dichlorobenzene	Ave	0.5653	0.5792		1.23	1.20	2.5	30.0
Benzyl chloride	Ave	0.7182	0.6951		0.929	0.960	-3.2	30.0
1,2-Dichlorobenzene	Ave	0.5474	0.5547		1.22	1.20	1.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCVIS 320-217160/2 Calibration Date: 04/10/2018 10:02

Instrument ID: ATMS5 Calib Start Date: 04/05/2018 14:51

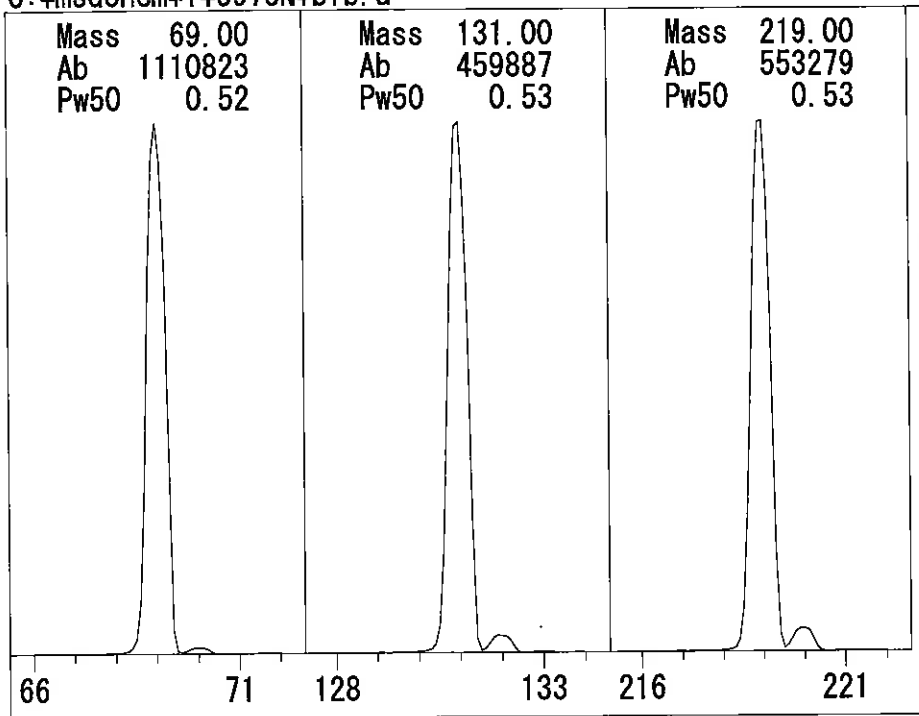
GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 04/05/2018 22:36

Lab File ID: 18041002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.1886	0.1967		1.25	1.20	4.3	30.0
Hexachlorobutadiene	Ave	0.5946	0.5408		1.09	1.20	-9.0	30.0
Naphthalene	Ave	0.4432	0.3452		0.935	1.20	-22.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4630	0.4456		1.93	2.00	-3.7	30.0
Toluene-d8 (Surr)	Ave	0.6084	0.5902		1.94	2.00	-3.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6698		2.08	2.00	4.1	30.0

Tue Apr 10 08:52:12 2018
C:¥msdchem¥1¥5973N¥bfb.u

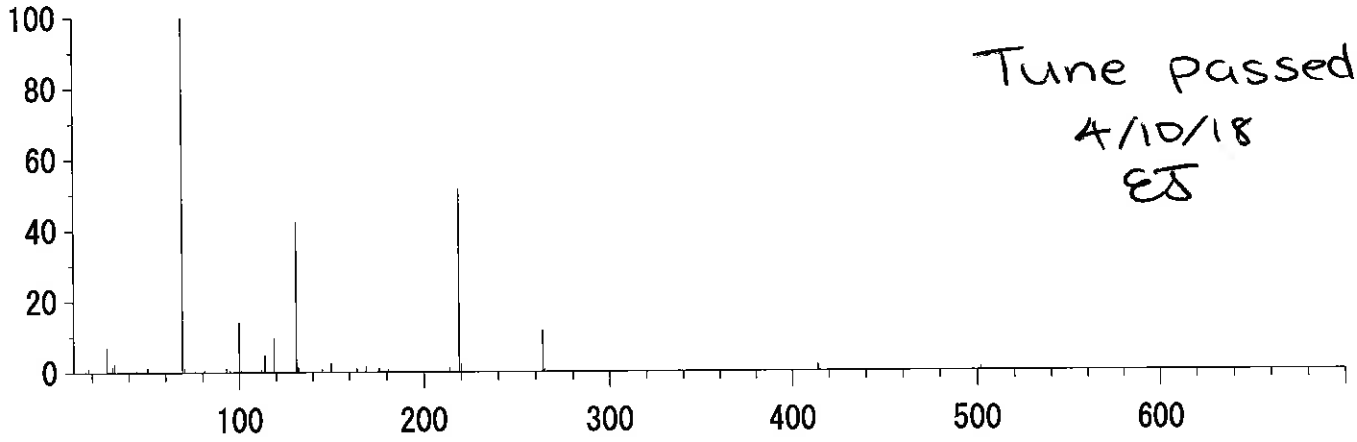
Instrument: ATMS5
US33220083



Ion Pol	Pos	MassGain	157
		MassOffs	-11
Emission	34.6	AmuGain	2125
EIEnrgy	69.9	AmuOffs	135
Filament	1	Wid219	-0.008
		DC Pol	Pos
Repeller	27.78		
IonFcus	67.4	HEDEnab	On
EntLens	0.0	EMVolts	1459
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:
MS Source 230 Turbo Speed100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
120 peaks Base: 69.00 Abundance: 868544



Tune passed
4/10/18
ES

Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	868544	100.00	70.00	9239	1.06
131.00	366400	42.19	132.00	11355	3.10
219.00	446208	51.37	220.00	19320	4.33

Air/Water Check: H2O~0.99% N2~6.92% O2~2.25% CO2~0.40% N2/H2O~698.54%

Column(1) Flow: 1.498 Column(2): 0 ml/min. Interface Temp: 240

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 219; EM Gain 138896
Repeller Maximum 28 volts using ion 131; Gain Factor 1.39

MassGain Values(Samples):	159(3)	159(2)	159(1)	159(0)	157(FS)		
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	135.0	135.0	135.0	135.0	135.0	135.0	135.0
Entrance Lens Offset:	15.8	11.3	11.5	12.5	13.3	14.1	14.1
Target Abund(%):	1.0	100.0	45.0	55.0	2.4	2.0	
Actual Tune Abund(%):	1.3	100.0	42.2	51.4	1.8	1.1	

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041002.D
Lims ID: CCVIS 1.2ppbv
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Apr-2018 10:02:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS 1.2
Misc. Info.: 240
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:41:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.370	11.370	0.000	100	52113	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.530	13.530	0.000	100	238445	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.189	20.189	0.000	100	202218	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.552	0.000	99	106252	2.00	1.93	
$ 5 Toluene-d8 (Surr)	100	16.909	16.909	0.000	100	140731	2.00	1.94	
$ 6 4-Bromofluorobenzene (Surr	95	22.751	22.751	0.000	99	135450	2.00	2.08	
7 Propene	41	3.755	3.755	0.000	100	82345	1.20	1.08	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	99	120978	1.20	1.09	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	100	70857	1.20	1.16	
10 Chloromethane	50	4.187	4.187	0.000	100	81112	1.20	1.08	
11 Vinyl chloride	62	4.418	4.418	0.000	97	48412	1.20	1.08	
12 Butadiene	39	4.492	4.492	0.000	99	64947	1.20	1.08	
13 Bromomethane	94	5.184	5.184	0.000	100	33514	1.20	1.14	
14 Chloroethane	64	5.363	5.363	0.000	100	26135	1.20	1.15	
15 Trichlorofluoromethane	101	5.962	5.962	0.000	100	105785	1.20	1.12	
16 Isopropyl alcohol	45	6.541	6.541	0.000	0	215679	1.20	1.07	a
17 Acrolein	56	6.593	6.593	0.000	96	32621	1.20	1.13	
18 Acetone	43	6.742	6.742	0.000	100	132073	1.20	1.20	
19 1,1,2-Trichloro-1,2,2-trif	101	6.950	6.950	0.000	100	81755	1.20	1.21	
20 1,1-Dichloroethene	96	7.129	7.129	0.000	100	36213	1.20	1.13	
21 Acetonitrile	41	7.826	7.826	0.000	100	124363	1.20	1.13	
22 Methylene Chloride	49	7.989	7.989	0.000	100	115339	1.20	1.12	
23 Acrylonitrile	53	8.112	8.112	0.000	100	64909	1.20	1.09	
24 Methyl tert-butyl ether	73	8.567	8.567	0.000	100	112517	1.20	1.14	
25 trans-1,2-Dichloroethene	96	8.720	8.720	0.000	100	35124	1.20	1.14	
26 Hexane	41	9.165	9.165	0.000	100	96310	1.20	1.12	
28 1,1-Dichloroethane	63	9.529	9.529	0.000	94	102199	1.20	1.12	
27 Vinyl acetate	43	9.568	9.568	0.000	100	261180	1.20	1.11	
29 2-Butanone (MEK)	72	10.369	10.369	0.000	100	18397	1.20	1.11	
30 cis-1,2-Dichloroethene	96	10.775	10.775	0.000	97	40205	1.20	1.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.820	10.820	0.000	100	192560	1.20	1.09	
32 Chloroform	83	11.125	11.125	0.000	100	87250	1.20	1.11	
33 Tetrahydrofuran	42	11.549	11.549	0.000	100	111700	1.20	1.10	
34 1,1,1-Trichloroethane	97	12.055	12.055	0.000	100	94832	1.20	1.20	
35 Cyclohexane	84	12.256	12.256	0.000	100	52386	1.20	1.16	
36 Carbon tetrachloride	117	12.628	12.628	0.000	96	90198	1.20	1.16	
37 1,2-Dichloroethane	62	12.749	12.749	0.000	100	84455	1.20	1.05	
38 Benzene	78	12.886	12.886	0.000	100	128674	1.20	1.06	
39 n-Heptane	43	13.122	13.122	0.000	100	186454	1.20	1.08	
40 Trichloroethene	130	14.280	14.280	0.000	100	53582	1.20	1.06	
41 1,2-Dichloropropane	76	14.573	14.573	0.000	100	22031	1.20	1.07	
42 Dichlorobromomethane	85	15.018	15.018	0.000	99	63006	1.20	1.01	
43 1,4-Dioxane	88	15.047	15.047	0.000	87	24252	1.20	1.03	
44 4-Methyl-2-pentanone (MIBK	43	15.917	15.917	0.000	100	237546	1.20	1.12	
45 cis-1,3-Dichloropropene	75	16.264	16.264	0.000	100	79442	1.20	1.07	
46 Toluene	91	17.080	17.080	0.000	100	149294	1.20	1.06	
47 trans-1,3-Dichloropropene	75	17.358	17.358	0.000	99	66621	1.20	1.08	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	100	48991	1.20	1.10	
49 2-Hexanone	58	17.849	17.849	0.000	100	59447	1.20	1.03	
50 Tetrachloroethene	166	18.602	18.602	0.000	100	74024	1.20	1.08	
51 Chlorodibromomethane	129	18.790	18.790	0.000	100	87851	1.20	1.05	
52 Ethylene Dibromide	107	19.239	19.239	0.000	100	70783	1.20	0.9326	
53 Chlorobenzene	112	20.266	20.266	0.000	99	112393	1.20	1.10	
55 Ethylbenzene	91	20.464	20.464	0.000	100	195188	1.20	1.12	
56 m-Xylene & p-Xylene	91	20.651	20.651	0.000	100	296052	2.40	2.24	
57 o-Xylene	91	21.545	21.545	0.000	99	145746	1.20	1.12	
58 Styrene	104	21.576	21.576	0.000	97	97113	1.20	1.21	
59 Bromoform	173	22.095	22.095	0.000	100	74082	1.20	1.15	
54 1,1,2,2-Tetrachloroethane	83	22.525	22.525	0.000	100	92111	1.20	1.12	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	99	26214	1.20	1.15	
61 4-Ethyltoluene	120	23.431	23.431	0.000	100	54433	1.20	1.19	
62 1,3,5-Trimethylbenzene	120	23.530	23.530	0.000	100	77197	1.20	1.16	
63 1,2,4-Trimethylbenzene	120	24.317	24.317	0.000	100	69014	1.20	1.20	
64 1,3-Dichlorobenzene	146	25.049	25.049	0.000	100	78040	1.20	1.22	
65 1,4-Dichlorobenzene	146	25.250	25.250	0.000	100	70275	1.20	1.23	
66 Benzyl chloride	91	25.416	25.416	0.000	100	67468	0.9600	0.9291	
67 1,2-Dichlorobenzene	146	25.966	25.966	0.000	100	67302	1.20	1.22	
68 1,2,4-Trichlorobenzene	180	29.272	29.272	0.000	100	23866	1.20	1.25	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	65617	1.20	1.09	
70 Naphthalene	128	29.700	29.700	0.000	100	41888	1.20	0.9348	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 240.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 11-Apr-2018 17:44:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041002.D

Injection Date: 10-Apr-2018 10:02:30 Instrument ID: ATMS5

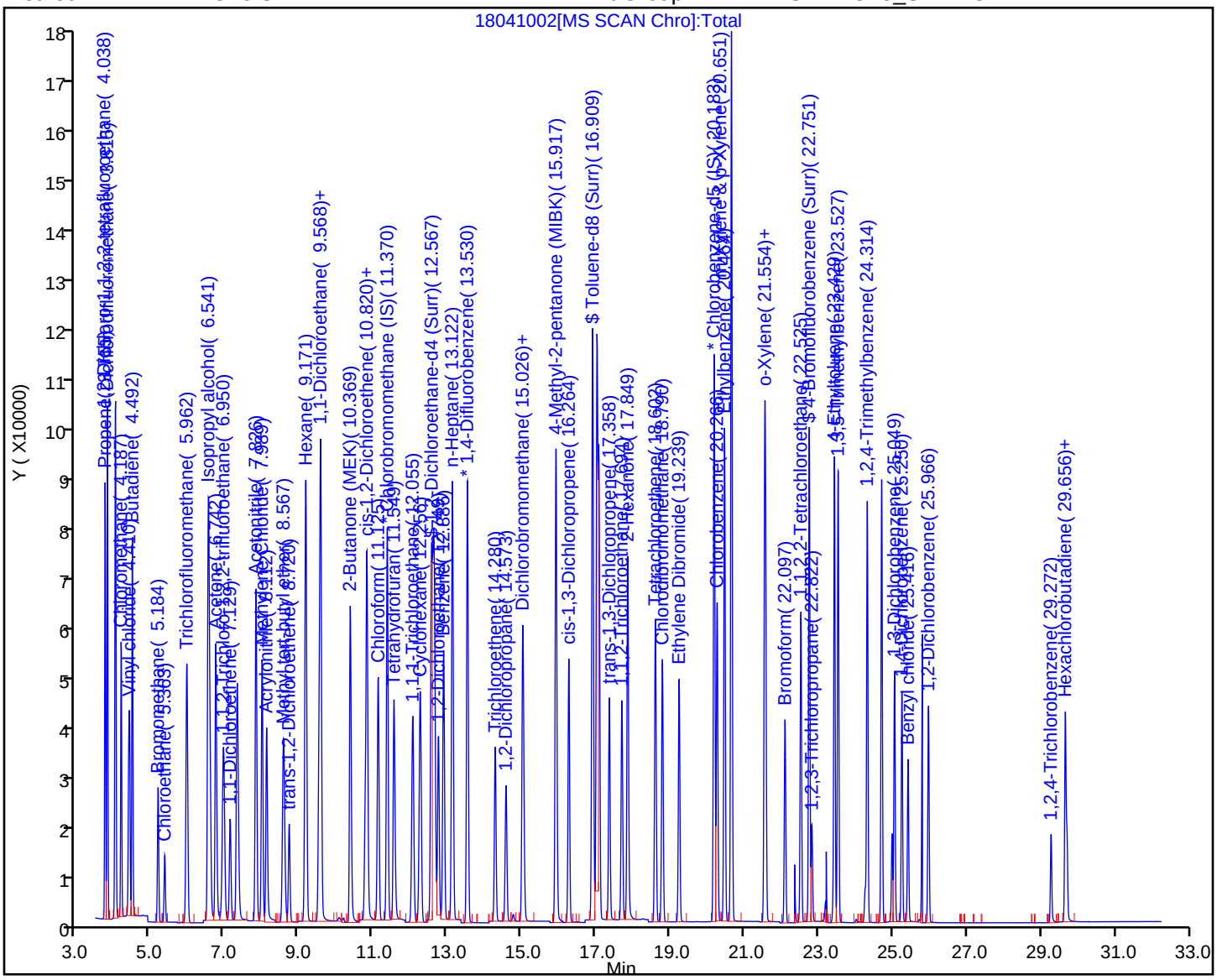
Lims ID: CCVIS 1.2ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCV 320-217160/22 Calibration Date: 04/11/2018 04:32

Instrument ID: ATMS5 Calib Start Date: 04/05/2018 14:51

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 04/05/2018 22:36

Lab File ID: 18041022.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	4.270	3.946		1.11	1.20	-7.6	30.0
Chloromethane	Ave	2.869	2.614		1.09	1.20	-8.9	30.0
Vinyl chloride	Ave	1.720	1.542		1.08	1.20	-10.3	30.0
Butadiene	Ave	2.312	2.125		1.10	1.20	-8.1	30.0
Chloroethane	Ave	0.8726	0.8511		1.17	1.20	-2.5	30.0
Trichlorofluoromethane	Ave	3.621	3.476		1.15	1.20	-4.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin		2.652		1.23	1.20	2.4	30.0
1,1-Dichloroethene	Ave	1.233	1.189		1.16	1.20	-3.5	30.0
Methylene Chloride	Ave	3.960	3.815		1.16	1.20	-3.7	30.0
Methyl tert-butyl ether	Ave	3.790	3.699		1.17	1.20	-2.4	30.0
trans-1,2-Dichloroethene	Ave	1.184	1.160		1.18	1.20	-2.0	30.0
1,1-Dichloroethane	Ave	3.491	3.386		1.16	1.20	-3.0	30.0
cis-1,2-Dichloroethene	Ave	1.371	1.343		1.18	1.20	-2.0	30.0
Chloroform	Ave	3.008	2.893		1.15	1.20	-3.8	30.0
1,1,1-Trichloroethane	Lin		3.139		1.24	1.20	3.2	30.0
Carbon tetrachloride	Lin		0.6739		1.24	1.20	3.0	30.0
1,2-Dichloroethane	Ave	0.6725	0.6435		1.15	1.20	-4.3	30.0
Benzene	Ave	1.021	0.9677		1.14	1.20	-5.2	30.0
Trichloroethene	Ave	0.4231	0.4043		1.15	1.20	-4.4	30.0
1,2-Dichloropropane	Ave	0.1723	0.1666		1.16	1.20	-3.3	30.0
Bromodichloromethane	Ave	0.5209	0.4741		1.09	1.20	-9.0	30.0
1,4-Dioxane	Ave	0.1979	0.2093		1.27	1.20	5.8	30.0
cis-1,3-Dichloropropene	Ave	0.6202	0.6049		1.17	1.20	-2.5	30.0
Toluene	Ave	1.177	1.125		1.15	1.20	-4.4	30.0
trans-1,3-Dichloropropene	Ave	0.6113	0.5963		1.17	1.20	-2.5	30.0
1,1,2-Trichloroethane	Ave	0.4401	0.4328		1.18	1.20	-1.7	30.0
Tetrachloroethene	Ave	0.6789	0.6482		1.15	1.20	-4.5	30.0
Dibromochloromethane	Ave	0.8300	0.7684		1.11	1.20	-7.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.7507	0.6266		1.00	1.20	-16.5	30.0
Chlorobenzene	Ave	1.013	0.9707		1.15	1.20	-4.2	30.0
Ethylbenzene	Ave	1.731	1.696		1.18	1.20	-2.0	30.0
m-Xylene & p-Xylene	Ave	1.306	1.287		2.37	2.40	-1.4	30.0
o-Xylene	Ave	1.290	1.268		1.18	1.20	-1.7	30.0
Styrene	Ave	0.7908	0.8313		1.26	1.20	5.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8118	0.7819		1.16	1.20	-3.7	30.0
1,2,3-Trichloropropane	Ave	0.2248	0.2194		1.17	1.20	-2.4	30.0
1,3-Dichlorobenzene	Ave	0.6352	0.6220		1.18	1.20	-2.1	30.0
1,4-Dichlorobenzene	Ave	0.5653	0.5527		1.17	1.20	-2.2	30.0
Benzyl chloride	Ave	0.7182	0.7261		0.970	0.960	1.1	30.0
1,2-Dichlorobenzene	Ave	0.5474	0.5197		1.14	1.20	-5.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Lab Sample ID: CCV 320-217160/22 Calibration Date: 04/11/2018 04:32

Instrument ID: ATMS5 Calib Start Date: 04/05/2018 14:51

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 04/05/2018 22:36

Lab File ID: 18041022.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.1886	0.2033		1.29	1.20	7.8	30.0
Hexachlorobutadiene	Ave	0.5946	0.5458		1.10	1.20	-8.2	30.0
Naphthalene	Ave	0.4432	0.4477		1.21	1.20	1.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4630	0.4621		2.00	2.00	-0.2	30.0
Toluene-d8 (Surr)	Ave	0.6084	0.6016		1.98	2.00	-1.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6522		2.03	2.00	1.4	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041022.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 11-Apr-2018 04:32:30 ALS Bottle#: 1 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV 1.2
Misc. Info.: 240
Operator ID: SV Instrument ID: ATMS5
Sublist: chrom-TO15 SIM*sub2

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 19:13:01 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 19:13:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	100	49352	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.528	13.530	-0.002	100	218389	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.189	-0.007	100	185689	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.552	12.550	0.000	100	100921	2.00	2.00	
$ 5 Toluene-d8 (Surr)	100	16.901	16.906	-0.008	100	131376	2.00	1.98	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.743	-0.006	100	121111	2.00	2.03	
7 Propene	41	3.763	3.753	0.008	100	79836	1.20	1.11	
8 Dichlorodifluoromethane	85	3.823	3.820	0.001	100	116833	1.20	1.11	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.036	0.000	99	66042	1.20	1.14	
10 Chloromethane	50	4.195	4.184	0.008	100	77409	1.20	1.09	
11 Vinyl chloride	62	4.418	4.415	0.000	96	45670	1.20	1.08	
12 Butadiene	39	4.485	4.489	-0.007	97	62932	1.20	1.10	
13 Bromomethane	94	5.185	5.181	0.000	100	32049	1.20	1.15	
14 Chloroethane	64	5.364	5.360	0.001	100	25201	1.20	1.17	
15 Trichlorofluoromethane	101	5.954	5.958	-0.008	100	102938	1.20	1.15	
16 Isopropyl alcohol	45	6.526	6.526	-0.015	0	215200	1.20	1.13	a
17 Acrolein	56	6.586	6.589	-0.007	100	31167	1.20	1.14	
18 Acetone	43	6.734	6.737	-0.008	100	129746	1.20	1.25	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.946	-0.007	100	78542	1.20	1.23	
20 1,1-Dichloroethene	96	7.121	7.124	-0.008	100	35217	1.20	1.16	
21 Acetonitrile	41	7.820	7.821	-0.006	100	121826	1.20	1.17	
22 Methylene Chloride	49	7.983	7.984	-0.006	100	112973	1.20	1.16	
23 Acrylonitrile	53	8.106	8.107	-0.006	100	63431	1.20	1.12	
24 Methyl tert-butyl ether	73	8.559	8.562	-0.008	100	109542	1.20	1.17	
25 trans-1,2-Dichloroethene	96	8.716	8.715	-0.004	100	34346	1.20	1.18	
26 Hexane	41	9.158	9.159	-0.007	100	94338	1.20	1.16	
28 1,1-Dichloroethane	63	9.523	9.523	-0.006	95	100249	1.20	1.16	
27 Vinyl acetate	43	9.562	9.562	-0.006	100	259653	1.20	1.17	
29 2-Butanone (MEK)	72	10.363	10.362	-0.006	100	19025	1.20	1.21	
30 cis-1,2-Dichloroethene	96	10.768	10.768	-0.007	97	39777	1.20	1.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
31 Ethyl acetate	43	10.812	10.813	-0.008	100	197025	1.20	1.18	
32 Chloroform	83	11.118	11.118	-0.007	100	85659	1.20	1.15	
33 Tetrahydrofuran	42	11.542	11.542	-0.007	100	113666	1.20	1.19	
34 1,1,1-Trichloroethane	97	12.055	12.048	0.000	100	92943	1.20	1.24	
35 Cyclohexane	84	12.256	12.248	0.000	100	51521	1.20	1.20	
36 Carbon tetrachloride	117	12.628	12.626	0.000	99	88302	1.20	1.24	
37 1,2-Dichloroethane	62	12.750	12.748	0.001	100	84318	1.20	1.15	
38 Benzene	78	12.887	12.885	0.001	100	126794	1.20	1.14	
39 n-Heptane	43	13.123	13.120	0.001	100	183914	1.20	1.16	
40 Trichloroethene	130	14.281	14.278	0.001	99	52974	1.20	1.15	
41 1,2-Dichloropropane	76	14.573	14.570	0.000	100	21834	1.20	1.16	
42 Dichlorobromomethane	85	15.019	15.016	0.001	100	62128	1.20	1.09	
43 1,4-Dioxane	88	15.048	15.045	0.001	94	27425	1.20	1.27	
44 4-Methyl-2-pentanone (MIBK	43	15.915	15.915	-0.002	100	239261	1.20	1.23	
45 cis-1,3-Dichloropropene	75	16.264	16.262	0.000	100	79261	1.20	1.17	
46 Toluene	91	17.073	17.078	-0.007	100	147421	1.20	1.15	
47 trans-1,3-Dichloropropene	75	17.359	17.352	0.001	98	66433	1.20	1.17	
48 1,1,2-Trichloroethane	97	17.694	17.688	0.000	100	48218	1.20	1.18	
49 2-Hexanone	58	17.849	17.843	0.000	100	78500	1.20	1.48	
50 Tetrachloroethene	166	18.600	18.595	-0.002	100	72220	1.20	1.15	
51 Chlorodibromomethane	129	18.789	18.784	-0.001	100	85607	1.20	1.11	
52 Ethylene Dibromide	107	19.238	19.233	-0.001	100	69807	1.20	1.00	
53 Chlorobenzene	112	20.265	20.259	-0.001	99	108149	1.20	1.15	
55 Ethylbenzene	91	20.463	20.457	-0.001	100	189010	1.20	1.18	
56 m-Xylene & p-Xylene	91	20.650	20.644	-0.001	100	286863	2.40	2.37	
57 o-Xylene	91	21.545	21.538	0.000	100	141239	1.20	1.18	
58 Styrene	104	21.571	21.569	-0.005	100	92612	1.20	1.26	
59 Bromoform	173	22.092	22.087	-0.003	100	69944	1.20	1.18	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.517	-0.006	100	87117	1.20	1.16	
60 1,2,3-Trichloropropane	110	22.816	22.814	-0.006	98	24442	1.20	1.17	
61 4-Ethyltoluene	120	23.427	23.423	-0.004	100	51362	1.20	1.22	
62 1,3,5-Trimethylbenzene	120	23.525	23.522	-0.005	100	75496	1.20	1.23	
63 1,2,4-Trimethylbenzene	120	24.312	24.308	-0.005	100	64634	1.20	1.22	
64 1,3-Dichlorobenzene	146	25.044	25.040	-0.005	100	69300	1.20	1.18	
65 1,4-Dichlorobenzene	146	25.245	25.241	-0.005	100	61583	1.20	1.17	
66 Benzyl chloride	91	25.411	25.407	-0.005	100	64715	0.9600	0.9705	
67 1,2-Dichlorobenzene	146	25.961	25.957	-0.005	100	57899	1.20	1.14	
68 1,2,4-Trichlorobenzene	180	29.269	29.262	-0.003	100	22645	1.20	1.29	
69 Hexachlorobutadiene	225	29.656	29.646	0.000	100	60804	1.20	1.10	
70 Naphthalene	128	29.700	29.690	0.000	100	49880	1.20	1.21	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 240.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 11-Apr-2018 19:13:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041022.D

Injection Date: 11-Apr-2018 04:32:30 Instrument ID: ATMS5

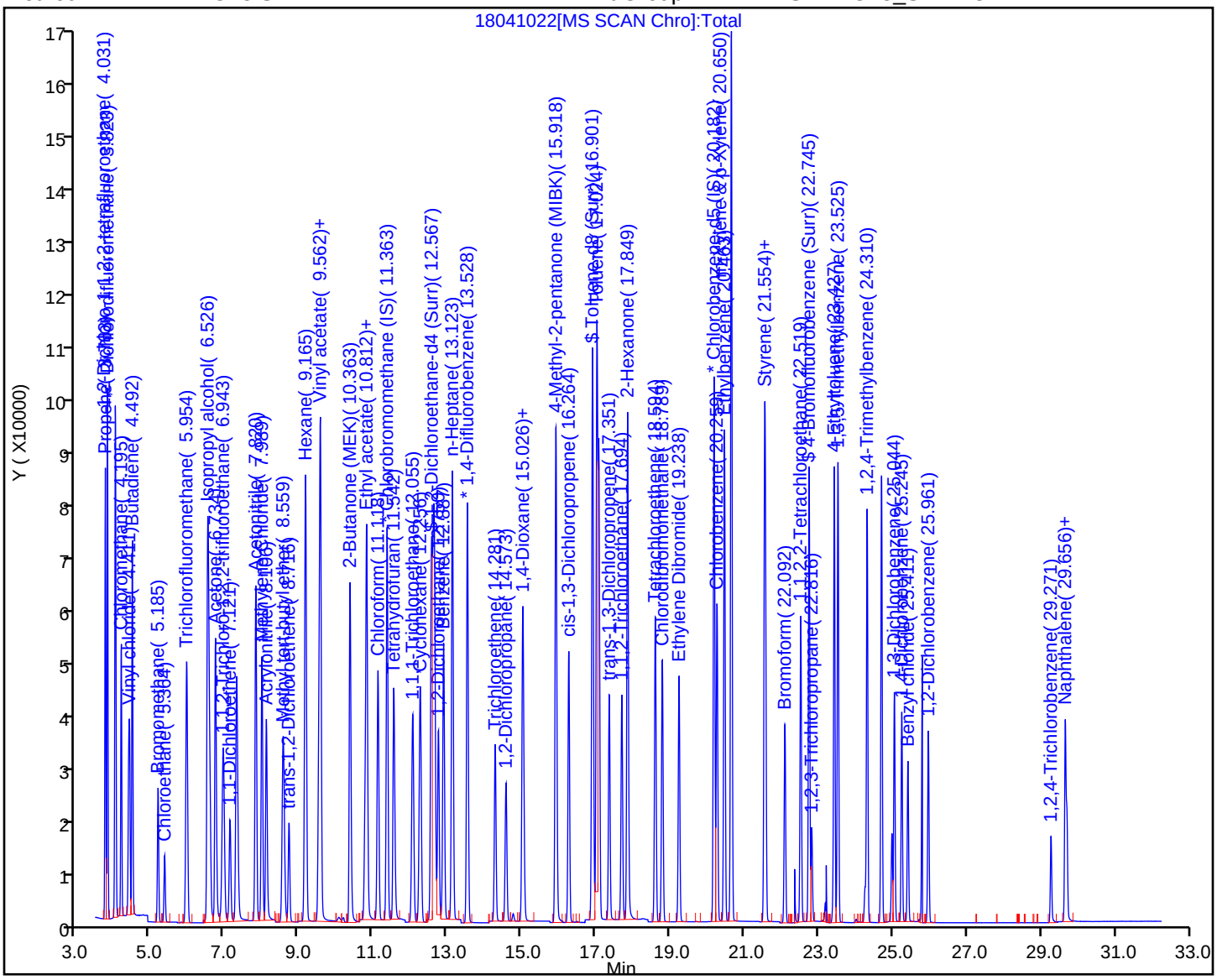
Lims ID: CCV

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-217160/7

Matrix: Air Lab File ID: 18041007.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 04/10/2018 14:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.055	U	0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	0.040	U	0.079	0.040	0.020
71-43-2	Benzene	0.064	U	0.16	0.064	0.032
56-23-5	Carbon tetrachloride	0.063	U	0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.079	0.040	0.020
75-09-2	Methylene Chloride	0.35	U	0.69	0.35	0.17
127-18-4	Tetrachloroethene	0.14	U	0.14	0.14	0.068
79-01-6	Trichloroethene	0.054	U	0.11	0.054	0.027
75-01-4	Vinyl chloride	0.026	U	0.051	0.026	0.013
123-91-1	1,4-Dioxane	0.072	U	0.36	0.072	0.036

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041007.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Apr-2018 14:17:30 ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	100	49614	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.521	13.530	-0.009	100	219060	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.189	-0.007	100	174107	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	84	101639	2.00	2.00	
$ 5 Toluene-d8 (Surr)	100	16.900	16.909	-0.009	100	129071	2.00	1.94	
$ 6 4-Bromofluorobenzene (Surr	95	22.750	22.751	-0.001	99	101223	2.00	1.81	
17 Acrolein	56	6.600	6.593	0.007	79	355		0.0129	
18 Acetone	43	6.749	6.742	0.007	96	12205		0.0786	
70 Naphthalene	128	29.699	29.700	-0.001	100	487		0.0126	

Reagents:

VAMSIS20_00140 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 11-Apr-2018 17:45:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041007.D

Injection Date: 10-Apr-2018 14:17:30 Instrument ID: ATMS5

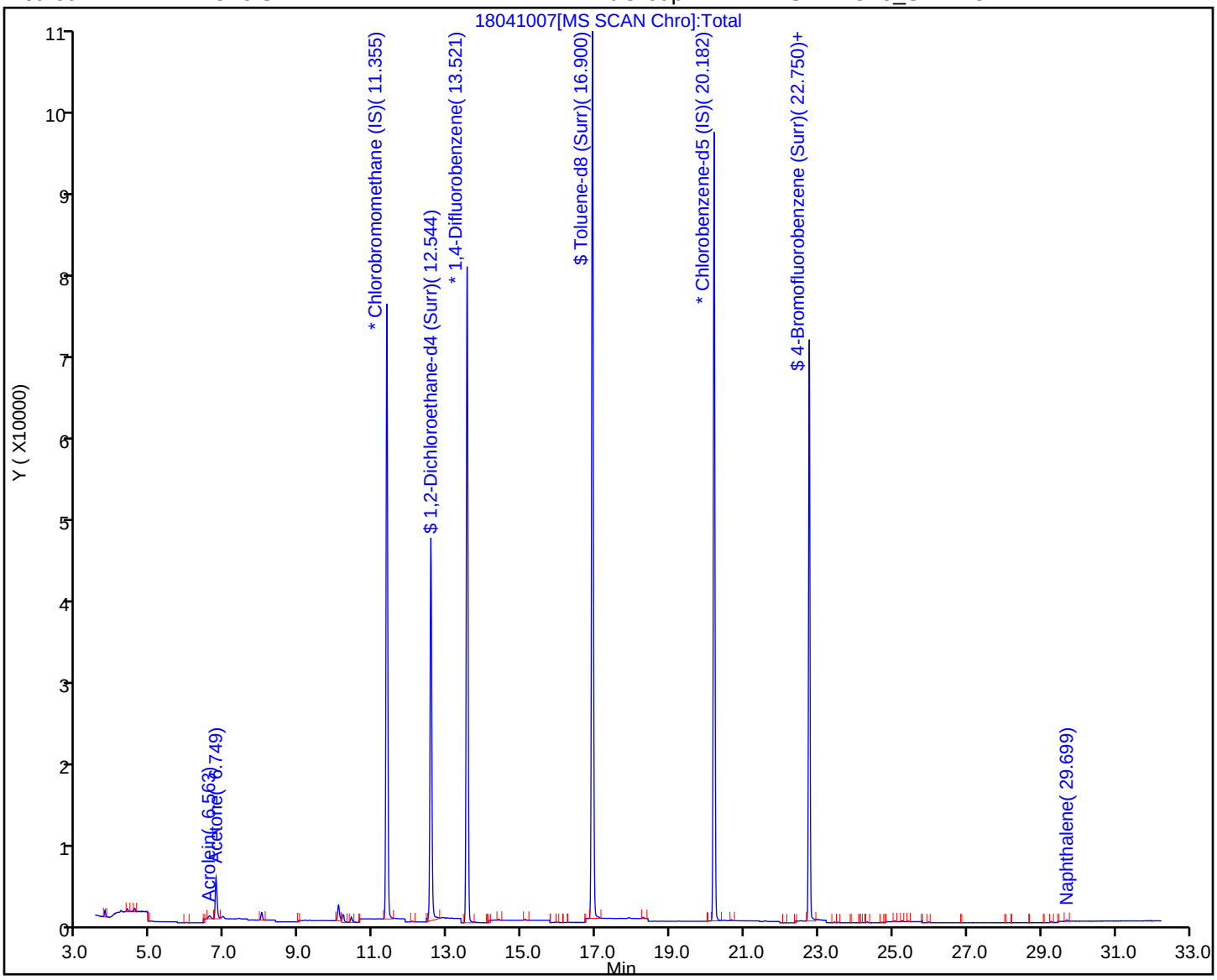
Lims ID: MB

Client ID:

Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041007.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Apr-2018 14:17:30 ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phanthasena Date: 11-Apr-2018 17:45:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	2.00	100.22
$ 5 Toluene-d8 (Surr)	2.00	1.94	96.85
$ 6 4-Bromofluorobenzene (Surr)	2.00	1.81	90.37

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-217160/3

Matrix: Air Lab File ID: 18041003.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 04/10/2018 10:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	6.39		0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	4.32		0.079	0.040	0.020
71-43-2	Benzene	3.37		0.16	0.064	0.032
56-23-5	Carbon tetrachloride	7.31		0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	4.41		0.079	0.040	0.020
75-09-2	Methylene Chloride	3.81		0.69	0.35	0.17
127-18-4	Tetrachloroethene	7.26		0.14	0.14	0.068
79-01-6	Trichloroethene	5.71		0.11	0.054	0.027
75-01-4	Vinyl chloride	2.65		0.051	0.026	0.013
123-91-1	1,4-Dioxane	3.83		0.36	0.072	0.036

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041003.D
Lims ID: LCS 1.2ppbv
Client ID:
Sample Type: LCS
Inject. Date: 10-Apr-2018 10:52:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: LCS 1.2
Misc. Info.: 240
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: jamese Date: 10-Apr-2018 12:36:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	100	52585	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.524	13.530	-0.006	100	236449	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.189	-0.007	100	199972	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	98	107255	2.00	1.96	
$ 5 Toluene-d8 (Surr)	100	16.901	16.909	-0.008	100	139663	2.00	1.94	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.751	-0.006	100	132064	2.00	2.05	
7 Propene	41	3.763	3.755	0.008	100	83391	1.20	1.09	
8 Dichlorodifluoromethane	85	3.822	3.822	0.000	100	123028	1.20	1.10	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.038	4.038	0.000	99	69344	1.20	1.12	
10 Chloromethane	50	4.187	4.187	0.000	100	80157	1.20	1.06	
11 Vinyl chloride	62	4.418	4.418	0.000	96	46921	1.20	1.04	
12 Butadiene	39	4.485	4.492	-0.007	99	64144	1.20	1.06	
13 Bromomethane	94	5.184	5.184	0.000	100	32532	1.20	1.10	
14 Chloroethane	64	5.364	5.363	0.001	100	25204	1.20	1.10	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	102998	1.20	1.08	
16 Isopropyl alcohol	45	6.526	6.541	-0.015	0	215771	1.20	1.07	a
17 Acrolein	56	6.585	6.593	-0.008	100	31641	1.20	1.09	
18 Acetone	43	6.734	6.742	-0.008	100	131154	1.20	1.18	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	80101	1.20	1.18	
20 1,1-Dichloroethene	96	7.121	7.129	-0.008	100	35298	1.20	1.09	
21 Acetonitrile	41	7.820	7.826	-0.006	100	123400	1.20	1.11	
22 Methylene Chloride	49	7.983	7.989	-0.007	100	114150	1.20	1.10	
23 Acrylonitrile	53	8.106	8.112	-0.006	100	63775	1.20	1.06	
24 Methyl tert-butyl ether	73	8.559	8.567	-0.008	100	110650	1.20	1.11	
25 trans-1,2-Dichloroethene	96	8.716	8.720	-0.004	100	34549	1.20	1.11	
26 Hexane	41	9.158	9.165	-0.007	100	95951	1.20	1.11	
28 1,1-Dichloroethane	63	9.523	9.529	-0.006	96	100980	1.20	1.10	
27 Vinyl acetate	43	9.562	9.568	-0.006	100	260337	1.20	1.10	
29 2-Butanone (MEK)	72	10.362	10.369	-0.007	100	18584	1.20	1.11	
30 cis-1,2-Dichloroethene	96	10.768	10.775	-0.007	96	40058	1.20	1.11	
31 Ethyl acetate	43	10.812	10.820	-0.008	100	193273	1.20	1.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Chloroform	83	11.117	11.125	-0.008	100	86088	1.20	1.09	
33 Tetrahydrofuran	42	11.542	11.549	-0.007	100	110879	1.20	1.09	
34 1,1,1-Trichloroethane	97	12.047	12.055	-0.008	100	93693	1.20	1.17	
35 Cyclohexane	84	12.252	12.256	-0.004	100	51816	1.20	1.14	
36 Carbon tetrachloride	117	12.628	12.628	0.000	98	89852	1.20	1.16	
37 1,2-Dichloroethane	62	12.742	12.749	-0.007	100	83740	1.20	1.05	
38 Benzene	78	12.879	12.886	-0.007	100	127127	1.20	1.05	
39 n-Heptane	43	13.122	13.122	0.000	100	185171	1.20	1.08	
40 Trichloroethene	130	14.273	14.280	-0.007	100	53110	1.20	1.06	
41 1,2-Dichloropropane	76	14.565	14.573	-0.008	100	21713	1.20	1.07	
42 Dichlorobromomethane	85	15.019	15.018	0.000	100	62083	1.20	1.01	
43 1,4-Dioxane	88	15.040	15.047	-0.007	83	24894	1.20	1.06	
44 4-Methyl-2-pentanone (MIBK	43	15.913	15.917	-0.004	100	235463	1.20	1.12	
45 cis-1,3-Dichloropropene	75	16.260	16.264	-0.004	100	78604	1.20	1.07	
46 Toluene	91	17.072	17.080	-0.008	100	145763	1.20	1.05	
47 trans-1,3-Dichloropropene	75	17.350	17.358	-0.008	99	65604	1.20	1.07	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	100	47846	1.20	1.09	
49 2-Hexanone	58	17.849	17.849	0.000	100	62135	1.20	1.09	
50 Tetrachloroethene	166	18.600	18.602	-0.002	100	72658	1.20	1.07	
51 Chlorodibromomethane	129	18.789	18.790	-0.001	100	85421	1.20	1.03	
52 Ethylene Dibromide	107	19.238	19.239	-0.001	100	68995	1.20	0.9192	
53 Chlorobenzene	112	20.264	20.266	-0.002	99	108182	1.20	1.07	
55 Ethylbenzene	91	20.463	20.464	-0.001	100	186941	1.20	1.08	
56 m-Xylene & p-Xylene	91	20.650	20.651	-0.001	100	283686	2.40	2.17	
57 o-Xylene	91	21.545	21.545	0.000	100	138006	1.20	1.07	
58 Styrene	104	21.576	21.576	0.000	95	90761	1.20	1.15	
59 Bromoform	173	22.095	22.095	-0.001	100	69408	1.20	1.09	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.525	-0.006	100	86886	1.20	1.07	
60 1,2,3-Trichloropropane	110	22.822	22.822	0.000	100	24287	1.20	1.08	
61 4-Ethyltoluene	120	23.429	23.431	-0.002	100	50412	1.20	1.11	
62 1,3,5-Trimethylbenzene	120	23.527	23.530	-0.003	100	72371	1.20	1.10	
63 1,2,4-Trimethylbenzene	120	24.316	24.317	-0.001	100	63865	1.20	1.12	
64 1,3-Dichlorobenzene	146	25.048	25.049	-0.001	100	71175	1.20	1.12	
65 1,4-Dichlorobenzene	146	25.250	25.250	0.000	100	63953	1.20	1.13	
66 Benzyl chloride	91	25.411	25.416	-0.005	100	63571	0.9600	0.8852	
67 1,2-Dichlorobenzene	146	25.963	25.966	-0.003	100	60716	1.20	1.11	
68 1,2,4-Trichlorobenzene	180	29.271	29.272	-0.001	100	23990	1.20	1.27	
69 Hexachlorobutadiene	225	29.656	29.656	0.000	100	63050	1.20	1.06	
70 Naphthalene	128	29.700	29.700	0.000	100	47042	1.20	1.06	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 240.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 11-Apr-2018 17:44:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041003.D

Injection Date: 10-Apr-2018 10:52:30 Instrument ID: ATMS5

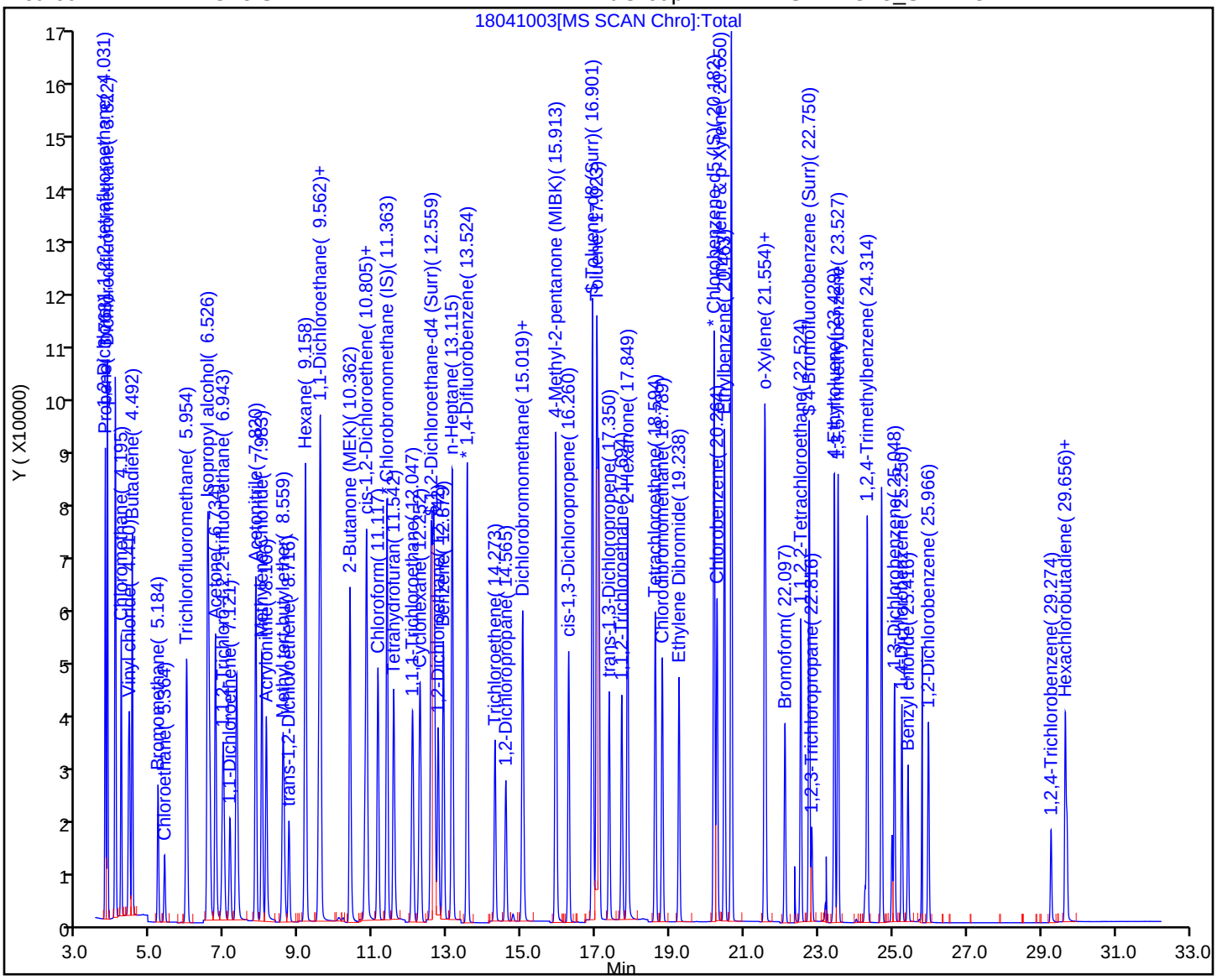
Lims ID: LCS 1.2ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041003.D
Lims ID: LCS 1.2ppbv
Client ID:
Sample Type: LCS
Inject. Date: 10-Apr-2018 10:52:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: LCS 1.2
Misc. Info.: 240
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: jamese Date: 10-Apr-2018 12:36:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	1.96	97.98
$ 5 Toluene-d8 (Surr)	2.00	1.94	97.09
$ 6 4-Bromofluorobenzene (Surr)	2.00	2.05	102.65

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-217160/4

Matrix: Air Lab File ID: 18041004.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 04/10/2018 11:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 217160 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	6.51		0.11	0.055	0.027
75-35-4	1,1-Dichloroethene	4.45		0.079	0.040	0.020
71-43-2	Benzene	3.44		0.16	0.064	0.032
56-23-5	Carbon tetrachloride	7.46		0.13	0.063	0.031
156-59-2	cis-1,2-Dichloroethene	4.51		0.079	0.040	0.020
75-09-2	Methylene Chloride	3.88		0.69	0.35	0.17
127-18-4	Tetrachloroethene	7.36		0.14	0.14	0.068
79-01-6	Trichloroethene	5.81		0.11	0.054	0.027
75-01-4	Vinyl chloride	2.72		0.051	0.026	0.013
123-91-1	1,4-Dioxane	3.67		0.36	0.072	0.036

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041004.D
Lims ID: LCSD 1.2ppbv
Client ID:
Sample Type: LCSD
Inject. Date: 10-Apr-2018 11:41:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 1.2
Misc. Info.: 240
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: jamese Date: 10-Apr-2018 12:40:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.363	11.370	-0.007	100	52300	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.524	13.530	-0.006	100	235208	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.182	20.189	-0.007	100	200757	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.544	12.552	-0.008	98	105934	2.00	1.95	
$ 5 Toluene-d8 (Surr)	100	16.901	16.909	-0.008	100	139924	2.00	1.96	
$ 6 4-Bromofluorobenzene (Surr	95	22.745	22.751	-0.006	100	132833	2.00	2.06	
7 Propene	41	3.748	3.755	-0.007	100	68497	1.20	0.8988	
8 Dichlorodifluoromethane	85	3.815	3.822	-0.007	100	120744	1.20	1.08	
9 1,2-Dichloro-1,1,2,2-tetra	135	4.031	4.038	-0.007	100	69552	1.20	1.13	
10 Chloromethane	50	4.187	4.187	0.000	100	79976	1.20	1.07	
11 Vinyl chloride	62	4.410	4.418	-0.008	97	47875	1.20	1.06	
12 Butadiene	39	4.485	4.492	-0.007	100	64769	1.20	1.07	
13 Bromomethane	94	5.180	5.184	-0.004	100	33059	1.20	1.12	
14 Chloroethane	64	5.359	5.363	-0.004	100	25996	1.20	1.14	
15 Trichlorofluoromethane	101	5.954	5.962	-0.008	100	105747	1.20	1.12	
16 Isopropyl alcohol	45	6.526	6.541	-0.015	0	210861	1.20	1.05	a
17 Acrolein	56	6.586	6.593	-0.007	97	31682	1.20	1.10	
18 Acetone	43	6.727	6.742	-0.015	100	130302	1.20	1.18	
19 1,1,2-Trichloro-1,2,2-trif	101	6.943	6.950	-0.007	100	81076	1.20	1.20	
20 1,1-Dichloroethene	96	7.121	7.129	-0.008	100	36185	1.20	1.12	
21 Acetonitrile	41	7.820	7.826	-0.006	100	124576	1.20	1.13	
22 Methylene Chloride	49	7.983	7.989	-0.006	100	115616	1.20	1.12	
23 Acrylonitrile	53	8.106	8.112	-0.006	100	62800	1.20	1.05	
24 Methyl tert-butyl ether	73	8.559	8.567	-0.008	1	112875	1.20	1.14	Ma
25 trans-1,2-Dichloroethene	96	8.712	8.720	-0.008	100	35381	1.20	1.14	
26 Hexane	41	9.158	9.165	-0.007	100	96495	1.20	1.12	
28 1,1-Dichloroethane	63	9.523	9.529	-0.006	96	102454	1.20	1.12	
27 Vinyl acetate	43	9.562	9.568	-0.006	100	259857	1.20	1.10	
29 2-Butanone (MEK)	72	10.363	10.369	-0.006	100	18083	1.20	1.09	
30 cis-1,2-Dichloroethene	96	10.768	10.775	-0.007	97	40789	1.20	1.14	
31 Ethyl acetate	43	10.812	10.820	-0.008	100	190341	1.20	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Chloroform	83	11.118	11.125	-0.007	100	87581	1.20	1.11	
33 Tetrahydrofuran	42	11.542	11.549	-0.007	100	110569	1.20	1.09	
34 1,1,1-Trichloroethane	97	12.047	12.055	-0.008	100	94994	1.20	1.19	
35 Cyclohexane	84	12.252	12.256	-0.004	100	52762	1.20	1.16	
36 Carbon tetrachloride	117	12.620	12.628	-0.008	97	91255	1.20	1.19	
37 1,2-Dichloroethane	62	12.742	12.749	-0.007	100	84907	1.20	1.07	
38 Benzene	78	12.879	12.886	-0.007	100	129218	1.20	1.08	
39 n-Heptane	43	13.115	13.122	-0.007	100	187632	1.20	1.10	
40 Trichloroethene	130	14.273	14.280	-0.007	100	53749	1.20	1.08	
41 1,2-Dichloropropane	76	14.566	14.573	-0.007	100	22090	1.20	1.09	
42 Dichlorobromomethane	85	15.011	15.018	-0.007	98	63137	1.20	1.03	
43 1,4-Dioxane	88	15.041	15.047	-0.007	83	23677	1.20	1.02	
44 4-Methyl-2-pentanone (MIBK	43	15.911	15.917	-0.006	100	234140	1.20	1.12	
45 cis-1,3-Dichloropropene	75	16.262	16.264	-0.002	99	79623	1.20	1.09	
46 Toluene	91	17.073	17.080	-0.007	100	149907	1.20	1.08	
47 trans-1,3-Dichloropropene	75	17.351	17.358	-0.008	99	66029	1.20	1.08	
48 1,1,2-Trichloroethane	97	17.694	17.694	0.000	99	48863	1.20	1.11	
49 2-Hexanone	58	17.849	17.849	0.000	100	55721	1.20	0.9739	
50 Tetrachloroethene	166	18.594	18.602	-0.008	100	73976	1.20	1.09	
51 Chlorodibromomethane	129	18.783	18.790	-0.008	100	87448	1.20	1.05	
52 Ethylene Dibromide	107	19.231	19.239	-0.008	100	70199	1.20	0.9316	
53 Chlorobenzene	112	20.259	20.266	-0.007	100	111330	1.20	1.09	
55 Ethylbenzene	91	20.457	20.464	-0.007	100	192802	1.20	1.11	
56 m-Xylene & p-Xylene	91	20.644	20.651	-0.007	100	293201	2.40	2.24	
57 o-Xylene	91	21.541	21.545	-0.004	99	143811	1.20	1.11	
58 Styrene	104	21.571	21.576	-0.005	96	95027	1.20	1.20	
59 Bromoform	173	22.090	22.095	-0.005	100	72331	1.20	1.13	
54 1,1,2,2-Tetrachloroethane	83	22.519	22.525	-0.006	100	89644	1.20	1.10	
60 1,2,3-Trichloropropane	110	22.816	22.822	-0.006	99	25424	1.20	1.13	
61 4-Ethyltoluene	120	23.424	23.431	-0.007	100	53105	1.20	1.17	
62 1,3,5-Trimethylbenzene	120	23.523	23.530	-0.007	100	75654	1.20	1.14	
63 1,2,4-Trimethylbenzene	120	24.310	24.317	-0.007	100	66886	1.20	1.17	
64 1,3-Dichlorobenzene	146	25.044	25.049	-0.005	100	75194	1.20	1.18	
65 1,4-Dichlorobenzene	146	25.241	25.250	-0.009	100	67777	1.20	1.19	
66 Benzyl chloride	91	25.407	25.416	-0.009	100	63847	0.9600	0.8856	
67 1,2-Dichlorobenzene	146	25.959	25.966	-0.007	100	64144	1.20	1.17	
68 1,2,4-Trichlorobenzene	180	29.267	29.272	-0.005	100	22848	1.20	1.21	
69 Hexachlorobutadiene	225	29.652	29.656	-0.004	100	63503	1.20	1.06	
70 Naphthalene	128	29.695	29.700	-0.005	100	41671	1.20	0.9368	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VACORPIC2.5_00381	Amount Added: 240.00	Units: mL	
VAMSIS20_00140	Amount Added: 50.00	Units: mL	Run Reagent

Report Date: 11-Apr-2018 17:45:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041004.D

Injection Date: 10-Apr-2018 11:41:30 Instrument ID: ATMS5

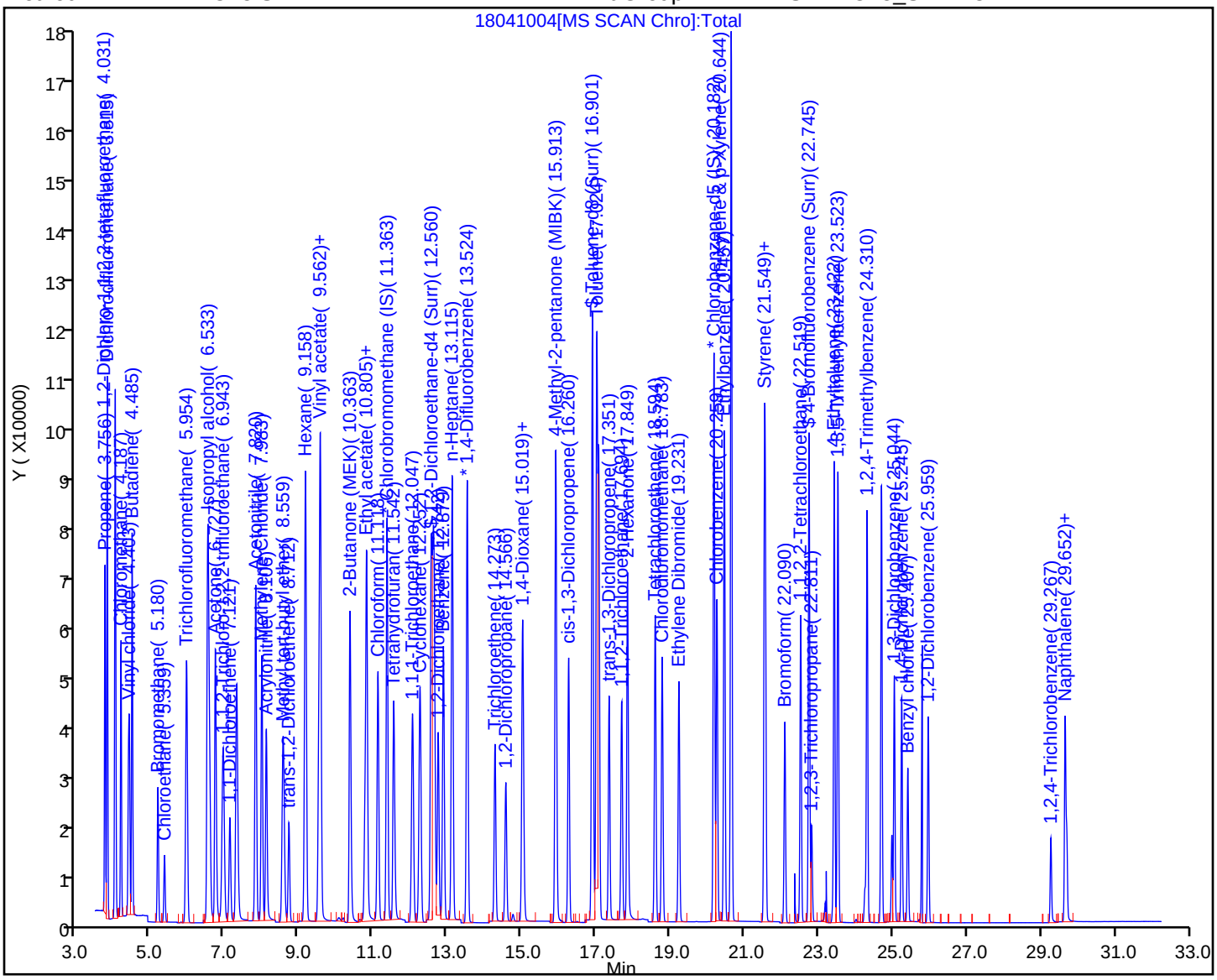
Lims ID: LCSD 1.2ppbv

Client ID:

Operator ID: SV ALS Bottle#: 1 Worklist Smp#: 4

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15 SIM Limit Group: MSA - TO15_SIM - ICAL



TestAmerica Sacramento
Recovery Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\18041004.D
Lims ID: LCSD 1.2ppbv
Client ID:
Sample Type: LCSD
Inject. Date: 10-Apr-2018 11:41:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 1.2
Misc. Info.: 240
Operator ID: SV Instrument ID: ATMS5

Method: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b\TO15 SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 11-Apr-2018 17:44:32 Calib Date: 05-Apr-2018 22:36:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS5\20180405-56296.b\MS5040511.D

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: jamese Date: 10-Apr-2018 12:40:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	2.00	1.95	97.28
$ 5 Toluene-d8 (Surr)	2.00	1.96	97.78
$ 6 4-Bromofluorobenzene (Surr)	2.00	2.06	102.85

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS5 Start Date: 04/05/2018 14:51

Analysis Batch Number: 216538 End Date: 04/06/2018 01:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-216538/2		04/05/2018 14:51	1	MS5040502.D	RTX-Volatiles 0.32(mm)
IC 320-216538/3		04/05/2018 15:44	1	MS5040503.D	RTX-Volatiles 0.32(mm)
IC 320-216538/4		04/05/2018 16:36	1	MS5040504.D	RTX-Volatiles 0.32(mm)
IC 320-216538/5		04/05/2018 17:26	1	MS5040505.D	RTX-Volatiles 0.32(mm)
IC 320-216538/6		04/05/2018 18:19	1	MS5040506.D	RTX-Volatiles 0.32(mm)
IC 320-216538/7		04/05/2018 19:08	1	MS5040507.D	RTX-Volatiles 0.32(mm)
IC 320-216538/8		04/05/2018 19:58	1	MS5040508.D	RTX-Volatiles 0.32(mm)
ICIS 320-216538/9		04/05/2018 20:47	1	MS5040509.D	RTX-Volatiles 0.32(mm)
IC 320-216538/10		04/05/2018 21:39	1	MS5040510.D	RTX-Volatiles 0.32(mm)
IC 320-216538/11		04/05/2018 22:36	1	MS5040511.D	RTX-Volatiles 0.32(mm)
ICV 320-216538/14		04/06/2018 01:12	1	MS5040514.D	RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37345-1

SDG No.:

Instrument ID: ATMS5 Start Date: 04/10/2018 10:02

Analysis Batch Number: 217160 End Date: 04/11/2018 04:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 320-217160/2		04/10/2018 10:02	1	18041002.D	RTX-Volatiles 0.32(mm)
LCS 320-217160/3		04/10/2018 10:52	1	18041003.D	RTX-Volatiles 0.32(mm)
LCSD 320-217160/4		04/10/2018 11:41	1	18041004.D	RTX-Volatiles 0.32(mm)
MB 320-217160/7		04/10/2018 14:17	1	18041007.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/10/2018 15:18	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/10/2018 16:18	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/10/2018 17:15	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/10/2018 18:13	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/10/2018 19:11	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/10/2018 20:08	1		RTX-Volatiles 0.32(mm)
320-37345-4		04/10/2018 21:04	1	18041014.D	RTX-Volatiles 0.32(mm)
320-37345-9		04/10/2018 22:01	1	18041015.D	RTX-Volatiles 0.32(mm)
320-37345-15		04/10/2018 22:56	1	18041016.D	RTX-Volatiles 0.32(mm)
320-37345-19		04/10/2018 23:52	1	18041017.D	RTX-Volatiles 0.32(mm)
ZZZZZ		04/11/2018 00:49	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/11/2018 01:47	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/11/2018 02:44	1		RTX-Volatiles 0.32(mm)
ZZZZZ		04/11/2018 03:42	1		RTX-Volatiles 0.32(mm)
CCV 320-217160/22		04/11/2018 04:32	1	18041022.D	RTX-Volatiles 0.32(mm)

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Sacramento

MS VOA AIR Data Review Checklist

Job(s): 320-37607, 320-37345, ~~320-37758~~ 4.11.18 Instrument ID: ATMS5 (WL 56477)

TO-14A TO-14A MOD TO-15 TO-15 MOD TO-15 SIM

ICAL Batch: 216538 TALS Batch: 217160

Review Items	Level 1 Yes	Level 1 No	Level 2	NA
Initial Calibration				
1. Is ICAL locked in Chrom & TALS?	✓		✓	
2. Is ICV properly linked in TALS for L3/L4 jobs?	✓		✓	
Continuing Calibration				
1. BFB tune documentation meets criteria? The PFTBA Tune Documentation is attached in TALS (SIM methods only)?	✓		✓	
2. All Internal Standards within 50-200% of ICAL mid-point (TO-14A/TO-14A MOD) or 60-140% (TO-15/ TO-15 MOD?	✓		✓	
3. Does the %D meet:30%D for standard program, and 20%D for DoD?	✓		✓	
4. Isomeric pairs checked for correct peak assignment? • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • Hexane / Vinyl acetate • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓		✓	
Client Samples & QC Sample Results				
1. Was analysis done within holding times?	✓		✓	
2. Have initial/final volumes been changed to 50mL/250mL in Analyst Desktop for all TO14/TO15_Mod samples and QC (excluding BFB)?				✓
3. Are Chromatograms reviewed and spectra verified?	✓		✓	
4. Are positive results within calibration range?	✓		✓	
5. Are all positive results within RT windows?	✓		✓	
6. All target cpds in MB < RL (< ½ RL for DoD)? Requires NCM if "no."	✓		✓	
7. Are surrogate recoveries for MB and LCS/LCSD within control limits?	✓		✓	
8. Are target constituents in LCS/LCSD within control limits?	✓		✓	
9. Are all Chrom graphics uploaded?	✓		✓	
10. Are all QC samples properly linked in TALS?	✓		✓	
11. Do the Internal Standards meet criteria?	✓		✓	
12. Do results (e.g., dilutions) make sense?	✓		✓	
13. Have all flags been reviewed for appropriateness?	✓		✓	
14. All manual integrations appropriate and documented?	✓		✓	
15. Are non-conformances documented as NCMs?				✓
16. Are client sample surrogate failures flagged and NCM written?				✓
17. Dilutions due to target cpds? ____ Dilutions due to non-targets? ____				✓
18. Has QC checker been run?	✓		✓	

1st Level Reviewer / Date: Ashley Pharthyson, 4/11/18 2nd Level Reviewer / Date: [signature] 4.11.18

Comments:

TestAmerica

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Sacramento

ICAL Review Checklist
Volatile Air GCMS

Method & Instrument ID: ATMS5 **ICAL Date:** 4/5/18
Chrom Worklist #: 562910 **Calibration ID:** TO15 SIM **TALS Analysis Batch:** 216538
Method (Check the applicable box)
☐ TO-14A / TO-15 Modified SCAN ☐ TO-15 Scan ☑ TO-15 SIM ☑ TO-15 SIM (Special Project)

Acceptance criteria are found in the applicable laboratory SOP or in TALS. If item is No, create an NCM.

Review Items	Level 1		NA	Level 2
General Criteria	Yes	No		
Standards analyzed within 24 hour tune time.	✓			
Chrom Peak Review calibration reports (F6) reviewed for error flags	✓			✓
Retention time correct for isomers/coeluters and all other analytes • Dichlorodifluoromethane / 1,2-Ddichlorofluoroethane • Trichlorofluoromethane / 1,1,2-Trichlorofluoroethane • Hexane / Vinyl acetate • 2-Methyl butane / Acrolein • 1,1-Dichloroethene / cis-1,2-Dichloroethene / trans-1,2-Dichloroethene • 1,2-Dichloroethane / Benzene • cis-1,3-Dichloropropane / trans-1,3-Dichloroproapne • Ethylbenzene / m/p-Xylene / o-Xylene • 4-Ethyl toluene / 1,3,5-Trimethylbenzene / 1,2,4-Trimethylbenzene • tert-Butylbenzene / 4-Isopropyltoluene • 1,3-Dichlorobenzene / 1,4-Dichlrobenzene / 1,2-Dichlorobenzene • 1,2,4,5-tetramethylbenzne / 1,2,3,4-tetramethylbenzene • 1,2,4-Trichlorobenzene / 1,2,3-Trichlorobenzene	✓			✓
Curve reviewed in Chrom for all analytes and all appropriate leves are included/excluded	✓			✓
Uploaded all calibration levels to TALS after any changes were made in Peak Review	✓			✓
Method for this worklist set as Most Recent Method	✓			
ICAL locked in Chrom and in TALS	✓			✓
ICV passes -See criteria below	✓			✓
Manual Integrations clearly identified, initialed, dated and reason given.	✓			✓
SIM Criteria				
PFTBA tune documentation present in Chrom & TALS and meets criteria	✓			✓
RSD < 30% (≤ 40% for up to 2 analytes.	✓			✓
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 5 points curve).	✓			✓
All internal standards are within 60-140% of ICAL midpoint.	✓			✓
ICV (Second Source) meets 70-130% criteria (60-140%) for up to 2 analytes,	✓			✓
Scan Criteria				
BFB Tune documentation present in Chrom & TALS and meets criteria			✓	
For GRO: WS-GRO report (F8) reviewed to ensure IS/Surrogate subtraction from area sum.			✓	
RSD < 30% (≤ 40% for up to 2 analytes, and ≤ 55% for up to 4 poor performers defined in SOP)			✓	
Linear regressions >0.995 and intercept <+/- ½ RL amount, (minimum of 6 points curve).			✓	
All internal standards are within 60-140% of ICAL midpoint (for TO-15 / TO-15 Modified) or within 50-200% of ICAL midpoint (for TO-14A)			✓	
ICV (Second Source) meets 70-130% criteria (60-140% for up to 2 analytes, and 45-155% for up to 4 poor performers defined in SOP)			✓	

ICAL compounds outside RSD criteria (write compound and %RSD) JW 4/16/18
~~Carbon Tetrachloride -39.2%, Naphthalene -34.1%~~

Repeat Failure from Prev ICAL: Yes ☐ No ☐

ICV (second source) compounds outside RSD criteria (write compound and %D.
Carbon Tetrachloride -39.2%, Naphthalene -34.1% OK
meet exception criteria (60-140%)

Yes ☐ No ☐

1st Level Reviewer: [signature] Date: 4/16/18

2nd Level Reviewer: [signature] Date: 4.9.18

Comments: Carbon Tetrachloride curved to 2.5 ppbv, Ethylene Dibromide curved to 1.2 ppbv.

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 180410 Worklist Num: 56477
Instrument: ATMS5 Method: TO15 SIM
Batch Directory: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b
Anaylysis Type: VOA Creator: James, Emily M
Inj Volume: 500.00 Inj Vol Units: mL
Run Reagents:
VAMSIS20_00140, Amount Added: 50.00 , Units: mL

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
Warmup	320-0056477-001	Client	10-Apr-2018 09:13:30	18041001.D	1	1.0		air
CCVIS 1.2ppbv	320-0056477-002	CCVIS	10-Apr-2018 10:02:30	18041002.D	1	1.0		air
LCS 1.2ppbv	320-0056477-003	LCS	10-Apr-2018 10:52:30	18041003.D	1	1.0		air
LCSD 1.2ppbv	320-0056477-004	LCSD	10-Apr-2018 11:41:30	18041004.D	1	1.0		air
IB	320-0056477-005	Client	10-Apr-2018 12:33:30	18041005.D	16	1.0		air
IB	320-0056477-006	Client	10-Apr-2018 13:25:30	18041006.D	16	1.0		air
MB	320-0056477-007	MB	10-Apr-2018 14:17:30	18041007.D	16	1.0		air
320-37607-A-1	320-0056477-008	Client	10-Apr-2018 15:18:30	18041008.D	2	1.0	IDA9605 1498 S KRAMERIA ST	air
320-37607-A-2	320-0056477-009	Client	10-Apr-2018 16:18:30	18041009.D	3	1.0	IDA9606 1777 S JASMINE ST	air
320-37607-A-3	320-0056477-010	Client	10-Apr-2018 17:15:30	18041010.D	4	1.0	IDA9607 1761 S JASMINE ST	air
320-37607-A-4	320-0056477-011	Client	10-Apr-2018 18:13:30	18041011.D	5	1.0	IDA9608 1880 S KEARNEY ST	air
320-37607-A-5	320-0056477-012	Client	10-Apr-2018 19:11:30	18041012.D	6	1.0	IDA9609 1849 S KEARNEY ST	air
320-37607-A-6	320-0056477-013	Client	10-Apr-2018 20:08:30	18041013.D	7	1.0	IDA9609FD 1849 S KEARNEY ST	air
320-37345-A-4	320-0056477-014	Client	10-Apr-2018 21:04:30	18041014.D	8	1.0	774IA-1_0318	air
320-37345-A-9	320-0056477-015	Client	10-Apr-2018 22:01:30	18041015.D	9	1.0	776IA-1_0318	air
320-37345-A-15	320-0056477-016	Client	10-Apr-2018 22:56:30	18041016.D	10	1.0	785IA-1_0318	air
320-37345-A-19	320-0056477-017	Client	10-Apr-2018 23:52:30	18041017.D	11	1.0	786IA-1_0318	air
320-37758-A-1	320-0056477-018	Client	11-Apr-2018 00:49:30	18041018.D	12	1.0	34000007	air
320-37758-A-2	320-0056477-019	Client	11-Apr-2018 01:47:30	18041019.D	13	1.0	34000387	air
320-37758-A-3	320-0056477-020	Client	11-Apr-2018 02:44:30	18041020.D	14	1.0	34001038	air
320-37758-A-4	320-0056477-021	Client	11-Apr-2018 03:42:30	18041021.D	16	1.0	34001484	air
CCV	320-0056477-022	CCV	11-Apr-2018 04:32:30	18041022.D	1	1.0		air

Atchara Phanthavong, 4/11/18

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 180410 Worklist Number: 56477
Instrument Name: ATMS5 Chrom Method: TO15 SIM
Data Directory: \\ChromNA\Sacramento\ChromData\ATMS5\20180410-56477.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	MSA - TO15_SIM - ICAL Raw Batch: 217160
# 1 Warmup	# 1 Warmup
# 2 CCVIS 1.2ppbv	# 2 CCVIS 1.2ppbv
# 3 LCS 1.2ppbv	# 3 LCS 1.2ppbv
# 4 LCSD 1.2ppbv	# 4 LCSD 1.2ppbv
# 5 IB	# 5 IB
# 6 IB	# 6 IB
# 7 MB	# 7 MB
# 8 320-37607-A-1	# 8 320-37607-A-1
# 9 320-37607-A-2	# 9 320-37607-A-2
#10 320-37607-A-3	#10 320-37607-A-3
#11 320-37607-A-4	#11 320-37607-A-4
#12 320-37607-A-5	#12 320-37607-A-5
#13 320-37607-A-6	#13 320-37607-A-6
#14 320-37345-A-4	#14 320-37345-A-4
#15 320-37345-A-9	#15 320-37345-A-9
#16 320-37345-A-15	#16 320-37345-A-15
#17 320-37345-A-19	#17 320-37345-A-19
#18 320-37758-A-1	#18 320-37758-A-1
#19 320-37758-A-2	#19 320-37758-A-2
#20 320-37758-A-3	#20 320-37758-A-3
#21 320-37758-A-4	#21 320-37758-A-4
#22 CCV	#22 CCV

Atchara Phanthaseth, 4/11/18

TestAmerica
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Sacramento
Volatile Air Daily Hand-off Sheet

Date: ~~4/9/18~~ EB 4/10/18 4/10/18	Inst: MS 5	WL# 56439 56477 EB 4/10/18

	Initial
Remote Review Requested	
QC Pressures Checked	
Components Rebooted	
Can Valves Opened	

Comments

Daily QC	
	Initial
BFB Check	
CCVIS Check	
CCV Other Check	
LCS/LCSD Check	
Sequence Verified	GMC

Comments

Job#	Port#	Load Vol.	DF	LV	Init psi	Final psi
320-37607-A-1	2	1080				
-2	3	1070				
-3	4	870				
-4	5	1030				
-5	6	1100				
-6	7	805				
320-37345-A-4	8	845				
-9	9	790				
-15	10	725				
-19	11	865				
320-37758-A-1	12	1000				
-2	13	↓				
-3	14					
-4	16	↓				
CCV	1	240				

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 1

Client/Project:		VFR ID:		
Canister Serial #:	34000012	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.96	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.02	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.54			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.54		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

	Date	Instr.	File #
	4/4/2018	MS7	

Canister DF = 1.54 X Load DF = 0.6476684 X Bag DF = 1 = FINAL DF 1.00048775
250 (BVf (mLs))
386 (Bvi (mLs))

	Date	Instr.	File #

Canister DF = 1.54 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) (BVf (mLs))
LVi (mLs) (Bvi (mLs))

	Date	Instr.	File #

Canister DF = 1.54 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) (BVf (mLs))
LVi (mLs) (Bvi (mLs))

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JOB # 320-37345
Sample # 2

Client/Project:		VFR ID:		
Canister Serial #:	34000021	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.57	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.93	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.59			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.59		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/4/2018	MS7		
Canister DF =	1.59	X	Load DF =	0.6313131	X	Bag DF =	1	=	FINAL DF	1.000960279	
				250		BVf (mLs)					
				396		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.59	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.59	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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JOB # 320-37345
Sample # 3

Client/Project:		VFR ID:		
Canister Serial #:	8241	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.81	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.90	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.55			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.55		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/4/2018	MS7	

Canister DF = 1.55 X Load DF = 0.6443299 X Bag DF = 1 = FINAL DF 1.000949645
250 BVf (mLs)
388 Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.55 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.55 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

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JOB # 320-37345
Sample # 4

Client/Project:		VFR ID:		
Canister Serial #:	34000342	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.98	03/28/18	ccb
FINAL PRESSURE (PSIA)	20.25	03/28/18	ccb
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.69			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.69		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/9/2018	ATMS5	

Canister DF = 1.69 X Load DF = 0.591716 X Bag DF = 1 = FINAL DF 1.00018769
500 BVf (mLs)
845 Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.69 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.69 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 5

Client/Project:		VFR ID:		
Canister Serial #:	34000279	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.57	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.22	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.61			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.61		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/4/2018	MS7		
Canister DF =	1.61	X	Load DF =	0.6218905	X	Bag DF =	1	=	FINAL DF	1.000368088	
				250		BVf (mLs)					
				402		Bvi (mLs)					

								Date	Instr.	File #	
Canister DF =	1.61	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

								Date	Instr.	File #	
Canister DF =	1.61	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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Sacramento

JOB # 320-37345
Sample # 6

Client/Project:		VFR ID:		
Canister Serial #:	34001159	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.27	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.04	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.63			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.63		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/4/2018	MS7		
Canister DF =	1.63	X	Load DF =	0.6127451	X	Bag DF =	1	=	FINAL DF	1.000767055	
				250		BVf (mLs)					
				408		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.63	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.63	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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Sacramento

JOB # 320-37345
Sample # 7

Client/Project:		VFR ID:		
Canister Serial #:	34002158	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.28	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.10	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.64			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.64		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/4/2018	MS7		
Canister DF =	1.64	X	Load DF =	0.6112469	X	Bag DF =	1	=	FINAL DF	1.000493776	
				250		BVf (mLs)					
				409		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.64	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.64	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 8

Client/Project:		VFR ID:		
Canister Serial #:	8279	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.68	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.89	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.57			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.57		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

	Date	Instr.	File #
	4/4/2018	MS7	

Canister DF = 1.57 X Load DF = 0.6377551 X Bag DF = 1 = FINAL DF 1.000390298
250 BVf (mLs)
392 Bvi (mLs)

	Date	Instr.	File #

Canister DF = 1.57 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

	Date	Instr.	File #

Canister DF = 1.57 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 9

Client/Project:		VFR ID:		
Canister Serial #:	34000881	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.96	03/28/18	ccb
FINAL PRESSURE (PSIA)	20.59	03/28/18	ccb
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.59			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.59		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/9/2018	ATMS5	

Canister DF = 1.59 X Load DF = 0.6329114 X Bag DF = 1 = FINAL DF 1.005528208
500 BVf (mLs)
790 Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.59 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.59 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 10

Client/Project:		VFR ID:		
Canister Serial #:	34000566	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	14.98	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.84	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.32			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.32		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/5/2018	MS7	

Canister DF = 1.32 X Load DF = 0.755287 X Bag DF = 1 = FINAL DF 1.00032672
250 BVf (mLs)
331 Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.32 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.32 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 11

Client/Project:		VFR ID:		
Canister Serial #:	34001453	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.50	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.70	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.58			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.58		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/5/2018	MS7	

Canister DF = 1.58 X Load DF = 0.6345178 X Bag DF = 1 = FINAL DF 1
250 BVf (mLs)
394 Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.58 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.58 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 12

Client/Project:		VFR ID:		
Canister Serial #:	34001433	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.65	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.32	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.61			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.61		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/5/2018	MS7		
Canister DF =	1.61	X	Load DF =	0.6234414	X	Bag DF =	1	=	FINAL DF	1.001448947	
				250		BVf (mLs)					
				401		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.61	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.61	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 13

Client/Project:		VFR ID:		
Canister Serial #:	34000408	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.85	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.06	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.56			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.56		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/5/2018	MS7		
Canister DF =	1.56	X	Load DF =	0.6410256	X	Bag DF =	1	=	FINAL DF	1.000698394	
				250		BVf (mLs)					
				390		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.56	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.56	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 14

Client/Project:		VFR ID:		
Canister Serial #:	8296	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD

READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY

READING		PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)		29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)				
INITIAL PRESSURE (PSIA)		12.69	03/29/18	GKI
FINAL PRESSURE (PSIA)		20.00	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He		SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor =	1.58			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.58		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/5/2018	MS7		
Canister DF =	1.58	X	Load DF =	0.6345178	X	Bag DF =	1	=	FINAL DF	1.000028001	
				250		BVf (mLs)					
				394		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.58	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.58	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 15

Client/Project:		VFR ID:		
Canister Serial #:	34001451	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD

READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY

READING		PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)		29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)				
INITIAL PRESSURE (PSIA)		13.75	03/28/18	ccb
FINAL PRESSURE (PSIA)		20.06	03/28/18	ccb
Pressurization Gas: ☐ N2 ☐ He		SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor =	1.46			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.46		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/9/2018	ATMS5		
Canister DF =	1.46	X	Load DF =	0.6896552	X	Bag DF =	1	=	FINAL DF	1.006144201	
				500		BVf (mLs)					
				725		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.46	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.46	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 16

Client/Project:		VFR ID:		
Canister Serial #:	34000789	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD

READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY

READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.54	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.99	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.59			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.59		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/5/2018	MS7		
Canister DF =	1.59	X	Load DF =	0.6281407	X	Bag DF =	1	=	FINAL DF	1.001318394	
				250		BVf (mLs)					
				398		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.59	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.59	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 17

Client/Project:		VFR ID:		
Canister Serial #:	7960	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD

READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY

READING		PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)		29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)				
INITIAL PRESSURE (PSIA)		13.07	03/29/18	GKI
FINAL PRESSURE (PSIA)		19.96	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He		SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor =	1.53			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.53		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/5/2018	MS7		
Canister DF =	1.53	X	Load DF =	0.656168	X	Bag DF =	1	=	FINAL DF	1.002074435	
				250		BVf (mLs)					
				381		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.53	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.53	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 18

Client/Project:		VFR ID:		
Canister Serial #:	8240	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.12	03/29/18	GKI
FINAL PRESSURE (PSIA)	20.03	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.65			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.65		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

	Date	Instr.	File #
	4/5/2018	MS7	

Canister DF = 1.65 X Load DF = 0.6053269 X Bag DF = 1 = FINAL DF 1.000387569
250 BVf (mLs)
413 Bvi (mLs)

	Date	Instr.	File #

Canister DF = 1.65 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

	Date	Instr.	File #

Canister DF = 1.65 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 19

Client/Project:		VFR ID:		
Canister Serial #:	34002114	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.67	03/28/18	ccb
FINAL PRESSURE (PSIA)	20.27	03/28/18	ccb
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.74			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.74		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/9/2018	ATMS5	

Canister DF = 1.74 X Load DF = 0.5780347 X Bag DF = 1 = FINAL DF 1.004007113
500 (BVf (mLs))
865 (Bvi (mLs))

Date	Instr.	File #

Canister DF = 1.74 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.74 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 20

Client/Project:		VFR ID:		
Canister Serial #:	34000559	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	13.13	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.79	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.51			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.51		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
4/5/2018	MS7	

Canister DF = 1.51 X Load DF = 0.6648936 X Bag DF = 1 = FINAL DF 1.002151156
250 BVf (mLs)
376 Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.51 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

Date	Instr.	File #

Canister DF = 1.51 X Load DF = #DIV/0! X Bag DF = 1 = FINAL DF #DIV/0!
LVf (mLs) BVf (mLs)
LVi (mLs) Bvi (mLs)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-37345
Sample # 21

Client/Project:		VFR ID:		
Canister Serial #:	5622	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD

READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY

READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	15.01	03/29/18	GKI
FINAL PRESSURE (PSIA)	19.70	03/29/18	GKI
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.31			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.31		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								4/5/2018	MS7		
Canister DF =	1.31	X	Load DF =	0.7621951	X	Bag DF =	1	=	FINAL DF	1.000349361	
				250		BVf (mLs)					
				328		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.31	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	1.31	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

Certification Type: TO-15 SIM

Date Cleaned/Batch ID: 1-29-18 320-35506

Date of QC: 2/5/18, 2/6/18

320-35506 Chain of Custody

Canister ID	Filename
34001451	MS12020515
34000793	MS12020517
8131	MS12020518
34002011	MS12020519
8360	MS12020520
34001283	MS12020608
7791	MS12020609
34000447	MS12020610
34002159	MS12020611
8056	MS12020613
34001802	MS12020614
34000174	MS12020615

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

Emily James
1st level Reviewed By:

2/8/18
Date:

2nd level Reviewed By:

2/15/18
Date:

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QA-814C

RKE 10262017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Batch Certification

Date Cleaned/Batch ID 1-31-18 320-35602

Date of QC 2/14/18

Data File Number 18021426

320-35602 Chain of Custody

(*File ID for certification analysis of canister designated below)*

CANISTER ID NUMBERS

*	34001546
	34001159
	34001453
	34000408
	8121
	8130

	34000279
	8279
	34000018
	34001196
	8296
	34002158

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: 2/15/18 Date:

2nd level Reviewed By: 2/19/18 Date:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

Certification Type: TO-15 SIM

Date Cleaned/Batch ID: 2-2-18 320-35716

Date of QC: 2/16/18, 2/18/18

320-35716 Chain of Custody

Canister ID	Filename
34001658	MS1021621
8431	MS1021622
~~34002103~~ 8e 2-13-18	———
34000465	MS1021623
34001223	MS1021624
34001122	MS1021625
34000081	MS1021806
34000581	MS1021807
8124	MS1021808
34000150	MS1021809
8303	MS1021811
8126	MS1021812

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

[signature] 2/19/18
1st level Reviewed By: Date:

2nd level Reviewed By: Date:

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QA-814C *RKE 10262017*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

Certification Type: TO-15 SIM

Date Cleaned/Batch ID: 2-6-18 320-35833

Date of QC: 2/18/18

320-35833 Chain of Custody

Canister ID	Filename	
340000355	MS12021806	
340014439	MS12021807	
340014477	MS12021808	
340013666	~~MS12021809~~	ES 2/19/18
340000084	MS12021811	
340000834	~~MS12021812~~	ES 2/19/18
340011132	MS12021813	
340011217	MS12021814	
340021114	MS12021816	
340011124	MS12021817	
340000342	MS12021818	
340000016	MS12021819	

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

Emily James
1st level Reviewed By:

2/19/18
Date:

2nd level Reviewed By:

2/21/18
Date:

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QA-814C

RKE 10262017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Batch Certification

Date Cleaned/Batch ID 2-12-18 320-35976

Date of QC 2/14/18

Data File Number MS6021404

320-35976 Chain of Custody

(*File ID for certification analysis of canister designated below)*

CANISTER ID NUMBERS

*	34002099
	5622
	7960
	34000559
	8240
	8070

	8157
	34000789
	34000012
	8241
	34000004
	34000566

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Steve Van Buren — 1st level Reviewed By: — Date: 2/16/18

2nd level Reviewed By: — Date: 2/16/18

Q:\DOCUMENT-MANAGEMENT\FORMS\QA-814 BATCH CAN QC 20171023.DOC
QA-814

RE 10232017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Batch Certification

Date Cleaned/Batch ID 2-13-18 320-36037

Date of QC 2/17/18

Data File Number MS9021707

320-36037 Chain of Custody

(*File ID for certification analysis of canister designated below*)

CANISTER ID NUMBERS

*	8234
	34001433
	7799
	8213
	34000815
	34001404

	34000589
	34001195
	34000543
	34000875
	34000844
	8342

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

RG for AP — 1st level Reviewed By:
2/19/18 — Date:

2nd level Reviewed By:
2/21/18 — Date:

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab File ID: MS12020507.D Lab Sample ID: MB 320-206917/7

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

Instrument ID: ATMS12 Date Analyzed: 02/05/2018 17:07

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34001451	320-35506-1	MS12020515.D	02/06/2018 01:01
34000793	320-35506-2	MS12020517.D	02/06/2018 02:54
8131	320-35506-3	MS12020518.D	02/06/2018 03:54
34002011	320-35506-4	MS12020519.D	02/06/2018 04:55
8360	320-35506-5	MS12020520.D	02/06/2018 05:55

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-206917/7

Matrix: Air Lab File ID: MS12020507.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/05/2018 17:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-206917/7

Matrix: Air Lab File ID: MS12020507.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/05/2018 17:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.140	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020507.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Feb-2018 17:07:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 06-Feb-2018 12:46:02 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: phanthasena Date: 06-Feb-2018 12:46:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	98	32121	2.00	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	152756	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.412	20.410	0.002	100	126826	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	99	79571	2.00	2.34	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	90547	2.00	2.00	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	98	89505	2.00	1.95	
7 Propene	41	4.246	4.216	0.030	99	500		0.0267	
18 Acetone	43	7.762	7.717	0.045	98	5108		0.1400	
29 2-Butanone (MEK)	72	11.467	11.467	0.051	100	102		0.0117	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 06-Feb-2018 12:46:03 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020507.D

Injection Date: 05-Feb-2018 17:07:30 Instrument ID: ATMS12

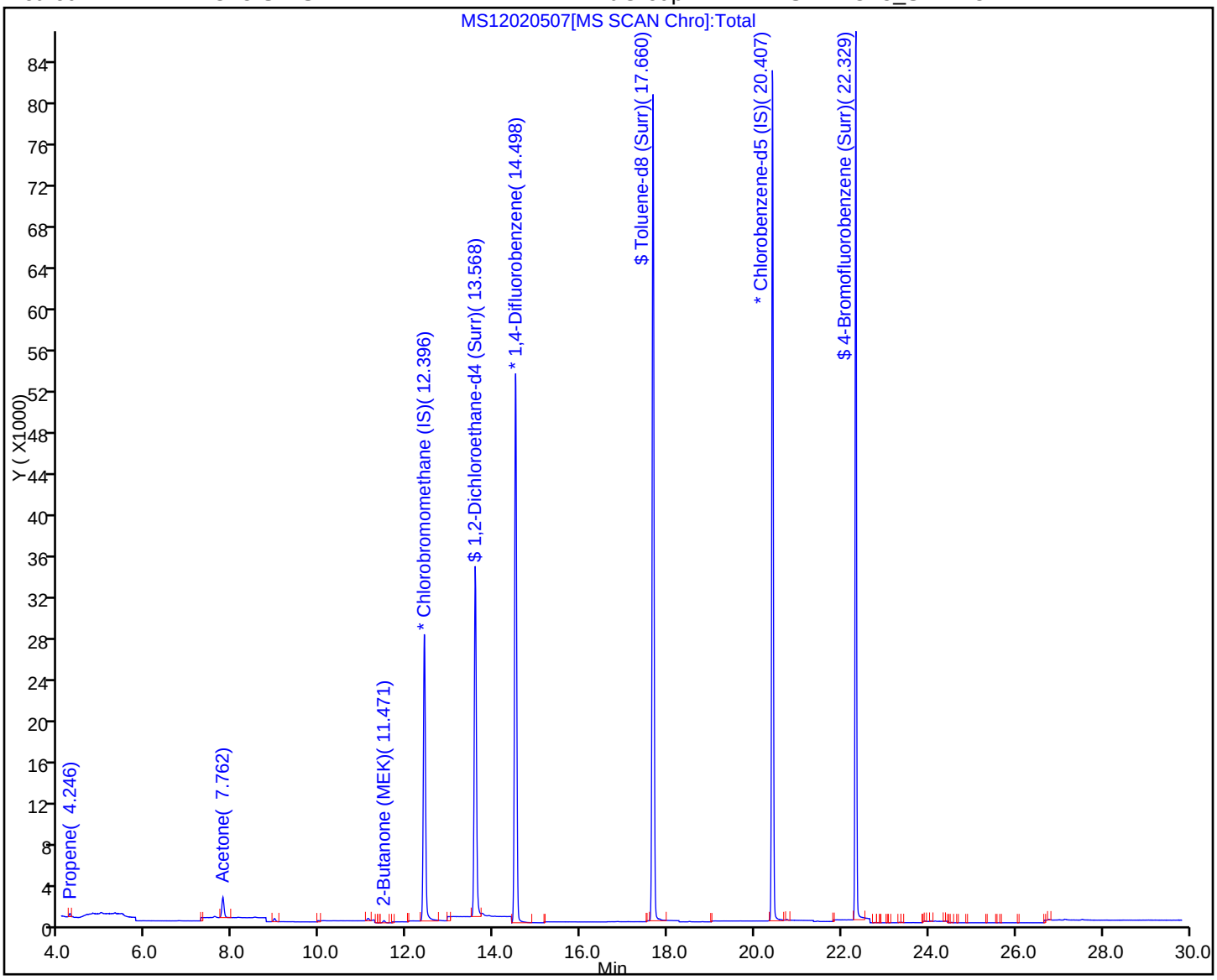
Lims ID: MB

Client ID:

Operator ID: EJ ALS Bottle#: 7 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15-SIMSIM Limit Group: MSA - TO15_SIM - ICAL



Report Date: 06-Feb-2018 12:46:03 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020507.D

Injection Date: 05-Feb-2018 17:07:30 Instrument ID: ATMS12

Lims ID: MB

Client ID:

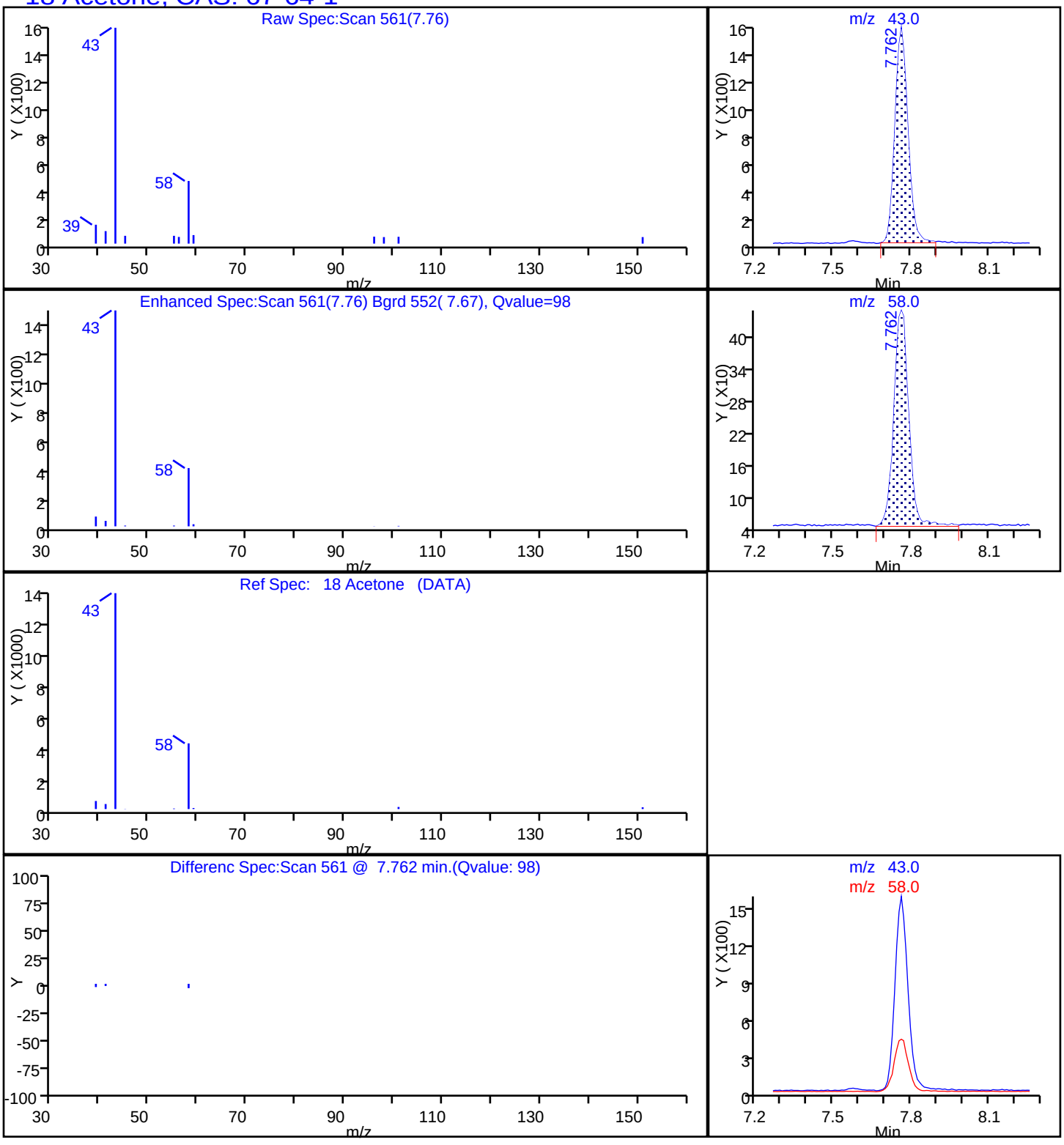
Operator ID: EJ ALS Bottle#: 7 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15-SIMSIM Limit Group: MSA - TO15_SIM - ICAL

Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1



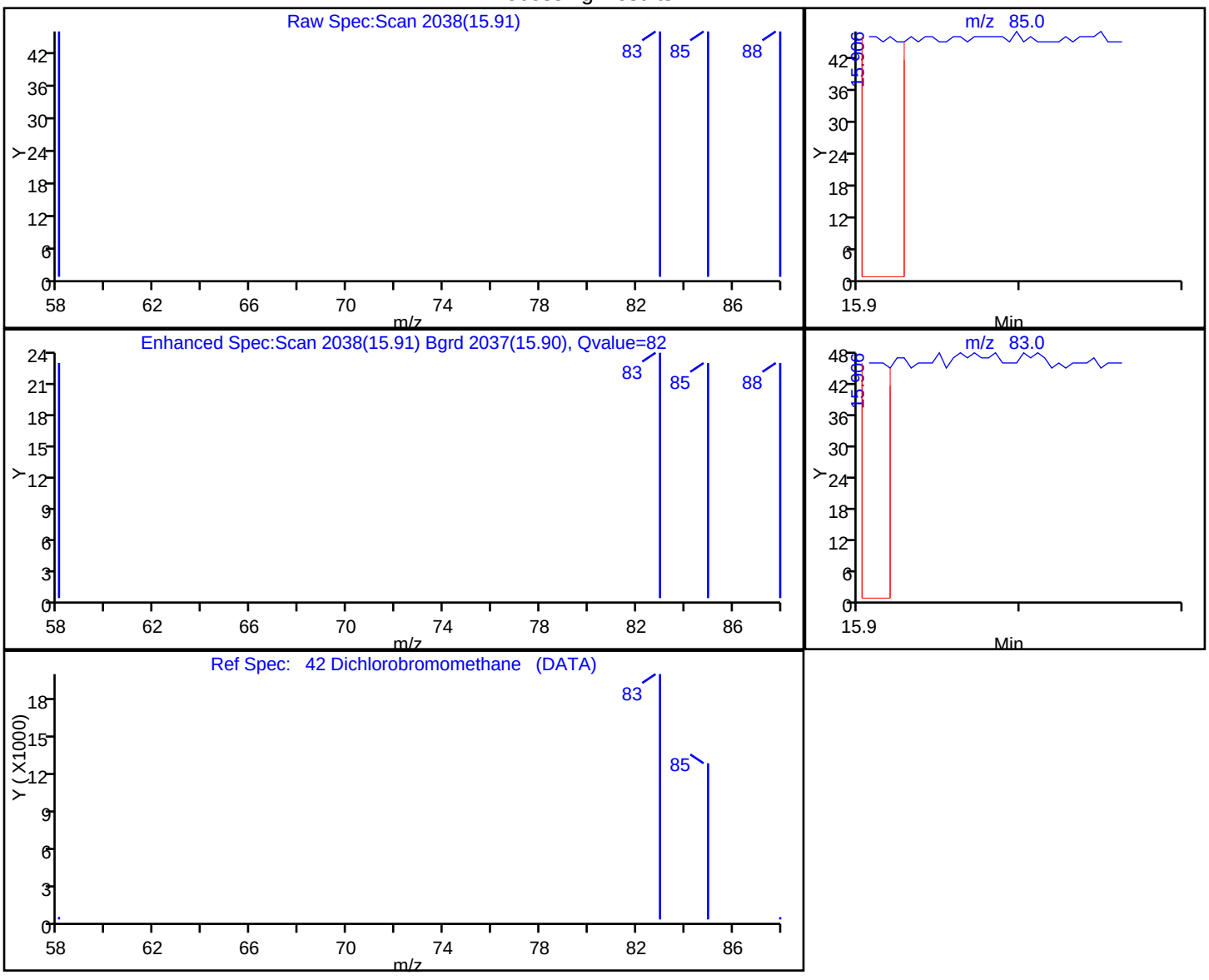
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020507.D				
Injection Date:	05-Feb-2018 17:07:30	Instrument ID:	ATMS12		
Lims ID:	MB				
Client ID:					
Operator ID:	EJ	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	72	0.002239
15.91	83.00	48	

Reviewer: phanthasena, 06-Feb-2018 12:46:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab File ID: MS12020607.D Lab Sample ID: MB 320-207084/7

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

Instrument ID: ATMS12 Date Analyzed: 02/06/2018 16:23

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34001283	320-35506-6	MS12020608.D	02/06/2018 17:24
7791	320-35506-7	MS12020609.D	02/06/2018 18:25
34000447	320-35506-8	MS12020610.D	02/06/2018 19:25
34002159	320-35506-9	MS12020611.D	02/06/2018 20:26
8056	320-35506-10	MS12020613.D	02/06/2018 22:19
34001802	320-35506-11	MS12020614.D	02/06/2018 23:19
34000174	320-35506-12	MS12020615.D	02/07/2018 00:20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-207084/7

Matrix: Air Lab File ID: MS12020607.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 16:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-207084/7

Matrix: Air Lab File ID: MS12020607.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 16:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.172	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020607.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Feb-2018 16:23:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 07-Feb-2018 12:06:42 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: phanthasena Date: 07-Feb-2018 12:10:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	29259	2.00	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	137681	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.407	0.003	99	115035	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	93	73759	2.00	2.41	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	80565	2.00	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.328	22.322	0.006	100	82681	2.00	1.98	
7 Propene	41	4.246	4.224	0.022	90	413		0.0242	
18 Acetone	43	7.762	7.726	0.036	99	5724		0.1722	
29 2-Butanone (MEK)	72	11.463	11.424	0.039	100	110		0.0139	
49 2-Hexanone	58	18.473	18.465	0.008	98	48		0.002374	

Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 07-Feb-2018 12:10:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020607.D

Injection Date: 06-Feb-2018 16:23:30 Instrument ID: ATMS12

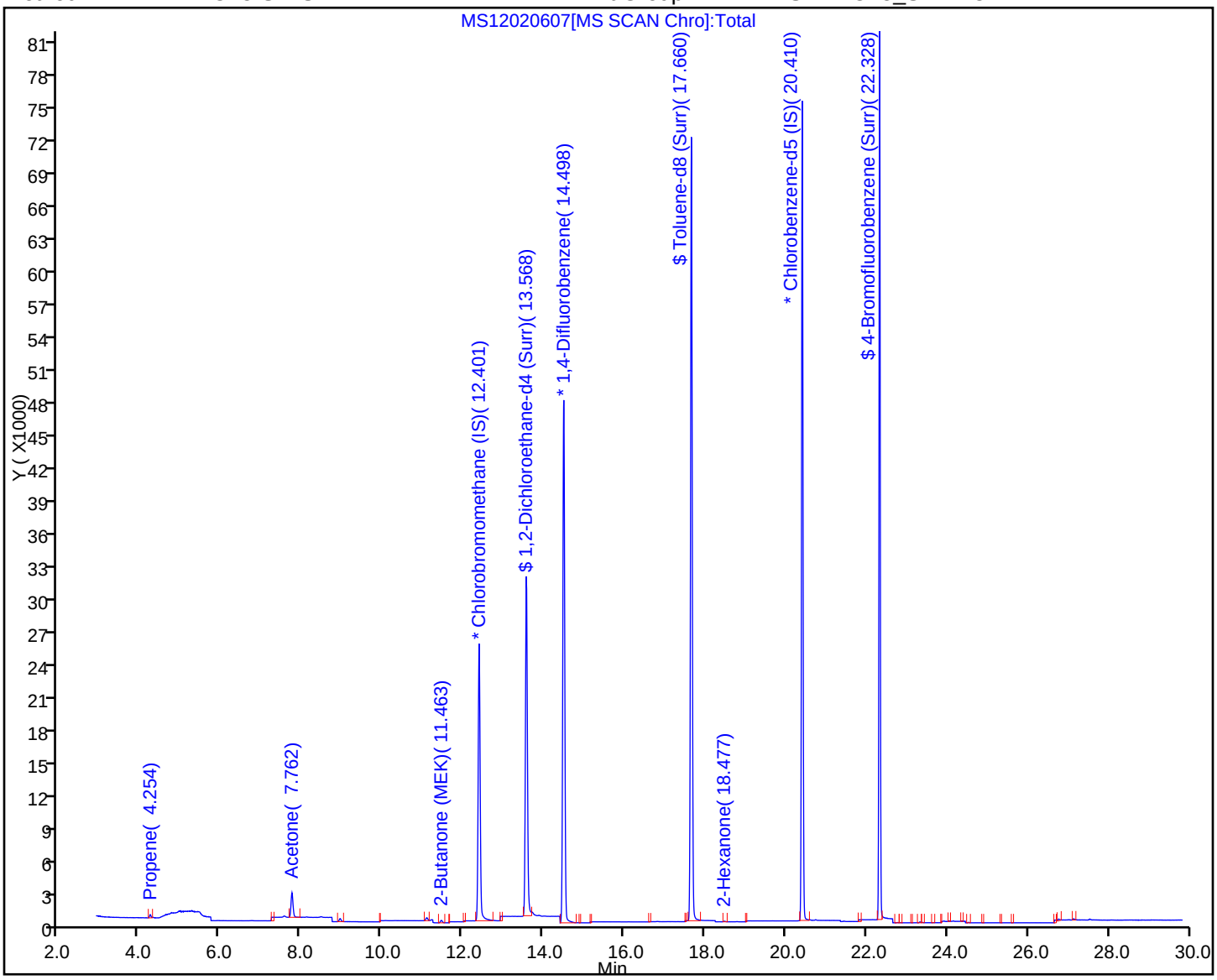
Lims ID: MB

Client ID:

Operator ID: EJ ALS Bottle#: 7 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15-SIMSIM Limit Group: MSA - TO15_SIM - ICAL



Report Date: 07-Feb-2018 12:10:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020607.D

Injection Date: 06-Feb-2018 16:23:30 Instrument ID: ATMS12

Lims ID: MB

Client ID:

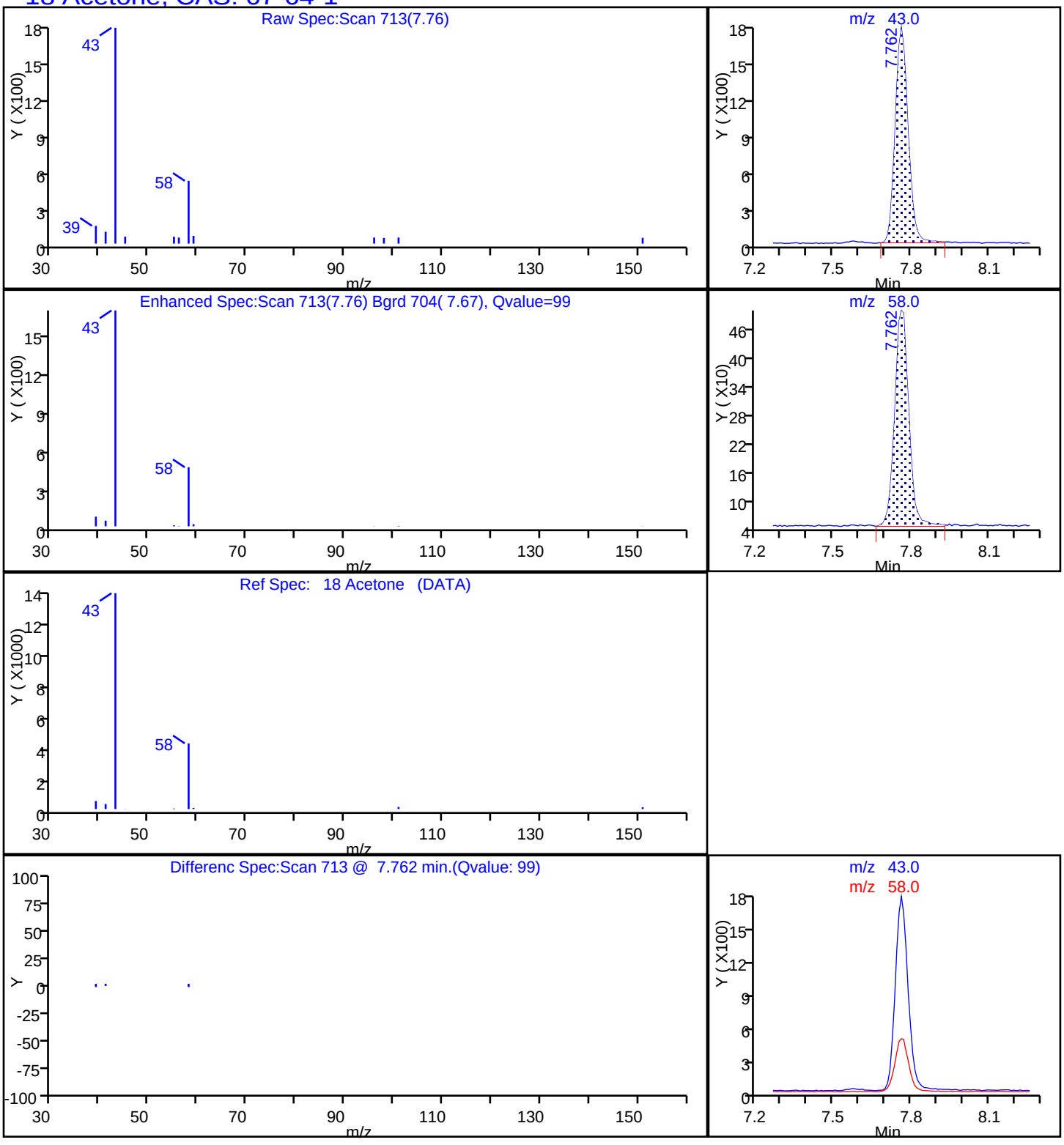
Operator ID: EJ ALS Bottle#: 7 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15-SIMSIM Limit Group: MSA - TO15_SIM - ICAL

Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1



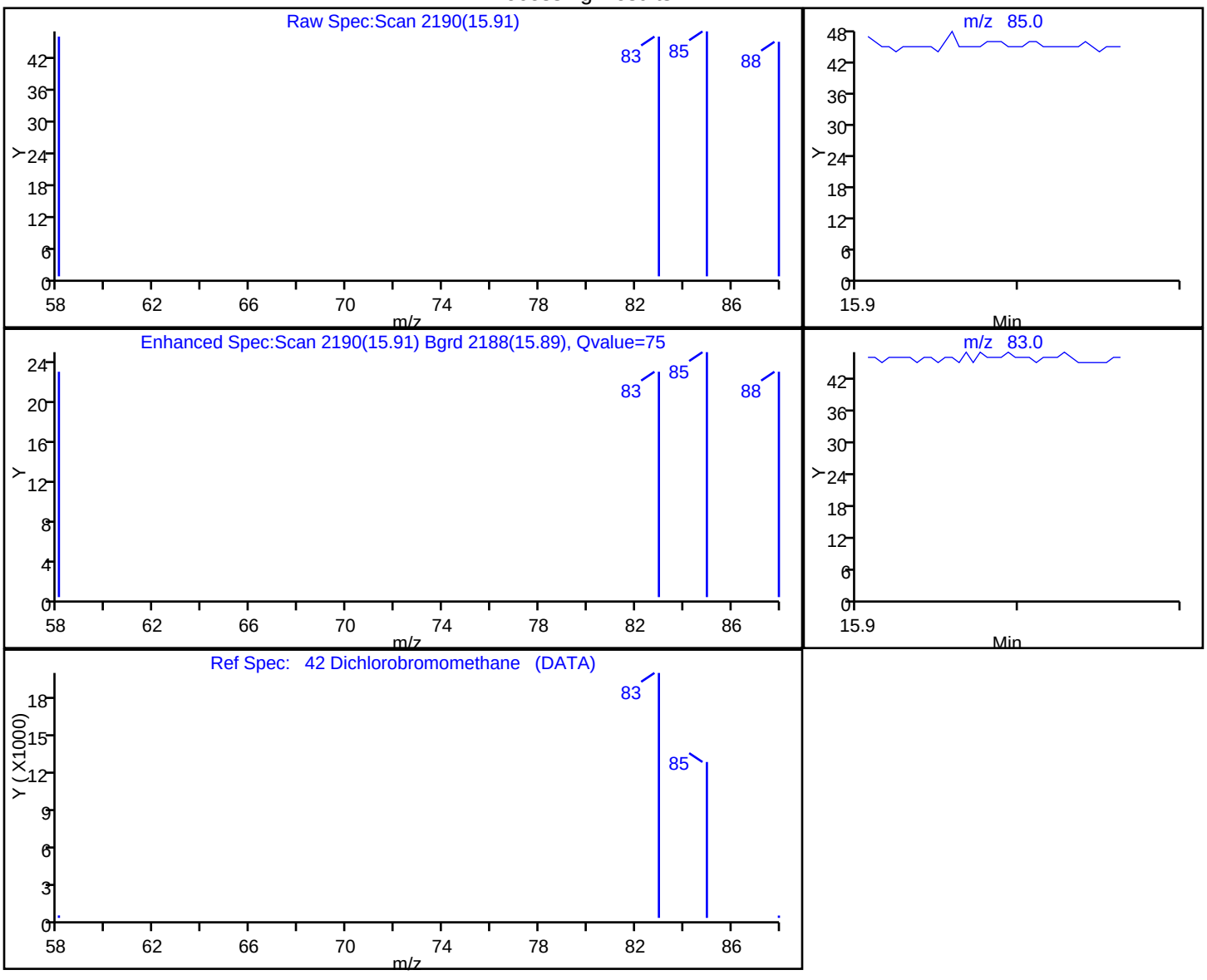
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020607.D				
Injection Date:	06-Feb-2018 16:23:30	Instrument ID:	ATMS12		
Lims ID:	MB				
Client ID:					
Operator ID:	EJ	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	60	0.002070
15.91	83.00	36	

Reviewer: jamese, 06-Feb-2018 17:36:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab File ID: 18021414.D Lab Sample ID: MB 320-208383/13

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

Instrument ID: ATMS2 Date Analyzed: 02/14/2018 21:22

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34001546	320-35602-1	18021426.D	02/15/2018 07:36

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208383/13

Matrix: Air Lab File ID: 18021414.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 21:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208383 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208383/13

Matrix: Air Lab File ID: 18021414.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 21:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208383 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	0.126	J	0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	Freon-113	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067
79-01-6	Trichloroethene	ND		0.40	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208383/13

Matrix: Air Lab File ID: 18021414.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 21:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208383 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054
1330-20-7	Xylenes, Total	ND		1.2	0.074
64-17-5	Ethanol	ND		1.0	0.18
75-05-8	Acetonitrile	ND		0.40	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Feb-2018 21:22:30 ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250mL
Operator ID: SV Instrument ID: ATMS2

Method: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\TO15_ATMS2N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Feb-2018 16:28:22 Calib Date: 06-Feb-2018 23:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS2\20180206-53757.b\18020612.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: sanjumnair Date: 15-Feb-2018 13:15:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.380	11.380	0.000	97	57166	4.00	4.00	
* 2 1,4-Difluorobenzene	114	13.466	13.473	-0.007	95	243285	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	19.532	19.526	0.006	87	222315	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.530	12.530	-0.006	0	81210	4.00	3.75	
$ 5 Toluene-d8 (Surr)	100	16.697	16.689	0.000	99	150925	4.00	3.87	
$ 6 4-Bromofluorobenzene (Surr	95	21.551	21.551	-0.001	91	155444	4.00	3.81	
$ 7 BFB									
15 Propane, 2-methyl	43	4.244	4.260	-0.018	0	1594		0.0533	
16 Chloromethane	50	4.359	4.357	0.000	50	765		0.0470	a
18 Butane	43	4.542	4.551	-0.012	99	3338		0.1175	
39 Methylene Chloride	49	8.070	8.084	-0.018	63	2504		0.1258	a
74 Toluene	91	16.861	16.847	0.006	95	1571		0.0355	
106 1,2,4-Trimethylbenzene	120	22.671	22.671	0.000	93	643		0.0249	
114 2-Chloroethyl vinyl ether	63	21.545	22.926	-1.394	0	4833		0	
123 1,2,4-Trichlorobenzene	180	25.980	25.980	0.000	66	653		0.0219	
127 1,2,3-Trichlorobenzene	180	26.680	26.674	0.006	77	845		0.0297	
A 147 C6 Range	1	9.208	(9.108-9.308)		0	1179		0.0119	
A 148 C3-C10	1	12.910	(3.766-22.053)		0	363435		3.56	
A 149 C4-C10	1	13.220	(4.479-22.053)		0	330982		NC	
A 151 GRO	1	14.443	(3.840-25.119)		0	1023617		7.71	
A 150 Nonmethane Organic Compoun	1	14.443	(3.840-25.119)		0	1023617		10.4	
A 152 C4-C12	1	14.753	(4.479-25.119)		0	991164		7.47	
A 153 C6-C10	1	15.535	(9.016-22.053)		0	245069		2.54	
A 154 C5-C12	1	15.599	(5.969-25.119)		0	951894		7.26	
A 157 Total VOCs as Tetrachloroe	1	15.943	(3.866-28.019)		0	2870716		0	
A 156 Total VOC as Hexane	1	15.943	(3.866-28.019)		0	2870716		29.1	
A 158 TVOC as Toluene	1	16.042	(4.154-27.929)		0	484842		0	
A 155 Toluene Range	1	16.916	(16.770-17.062)		0	15884		NC	
A 160 C6-C12	1	17.068	(9.016-25.119)		0	905251		7.10	
A 159 PCE Range	1	18.185	(18.115-18.255)		0	1778		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

VAMSIS20_00106	Amount Added:	50.00	Units: mL	Run Reagent

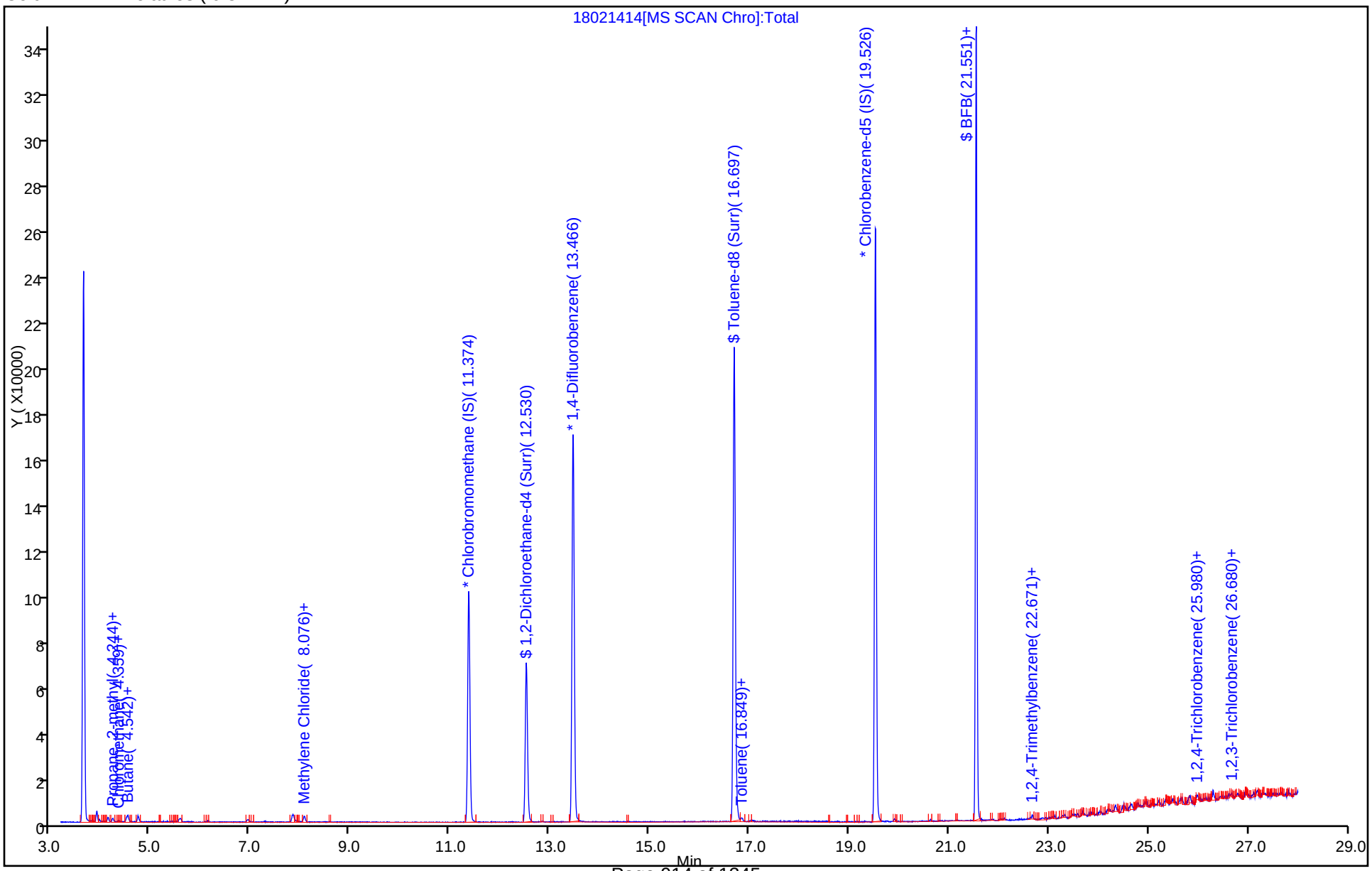
Report Date: 15-Feb-2018 16:34:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D

Injection Date:	14-Feb-2018 21:22:30	Instrument ID:	ATMS2	Operator ID:	SV
Lims ID:	MB			Worklist Smp#:	13
Client ID:					
Purge Vol:	250.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 15-Feb-2018 16:34:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D

Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2

Lims ID: MB

Client ID:

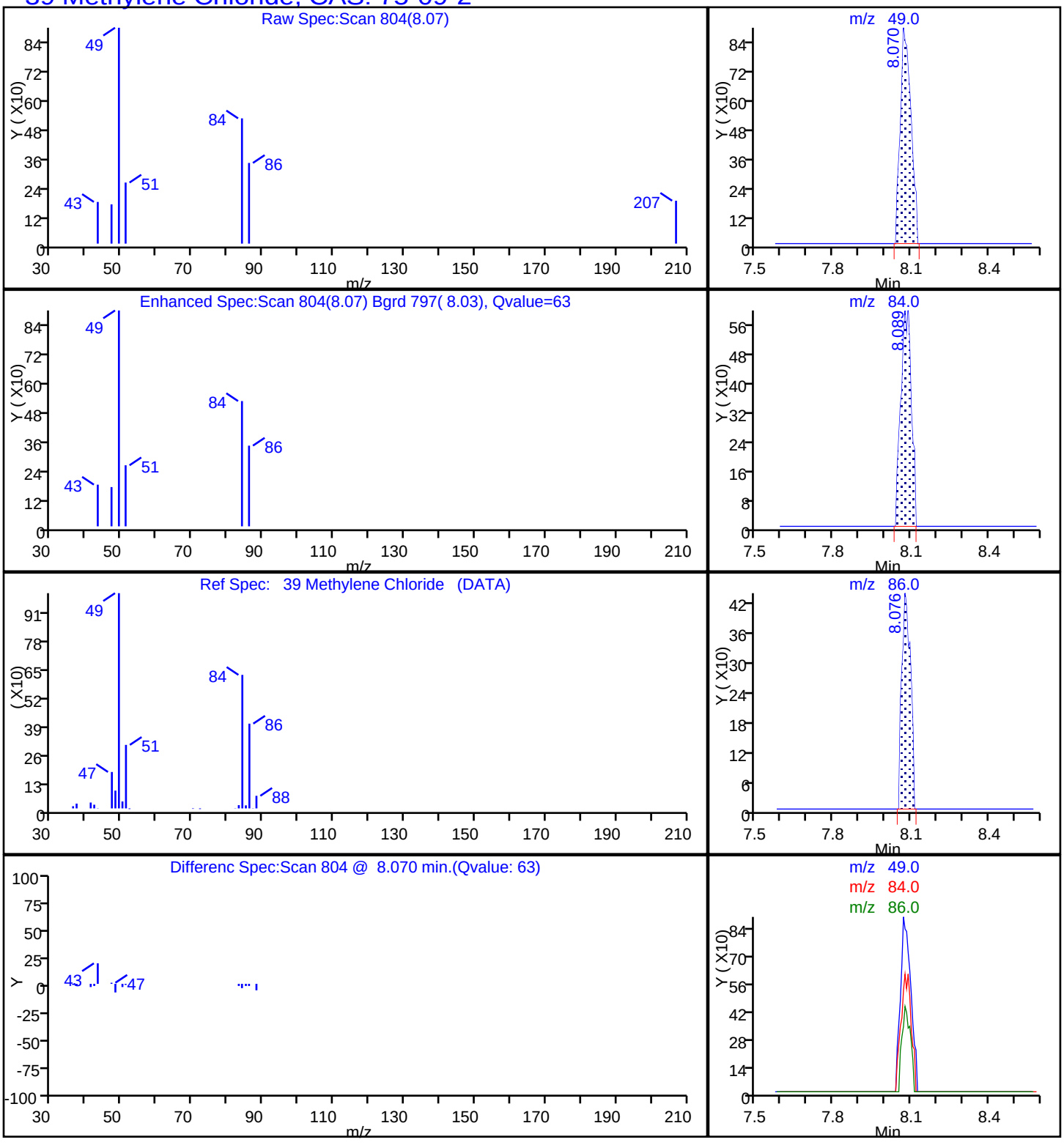
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13

Purge Vol: 250.000 mL Dil. Factor: 1.0000

Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm) Detector MS SCAN

39 Methylene Chloride, CAS: 75-09-2



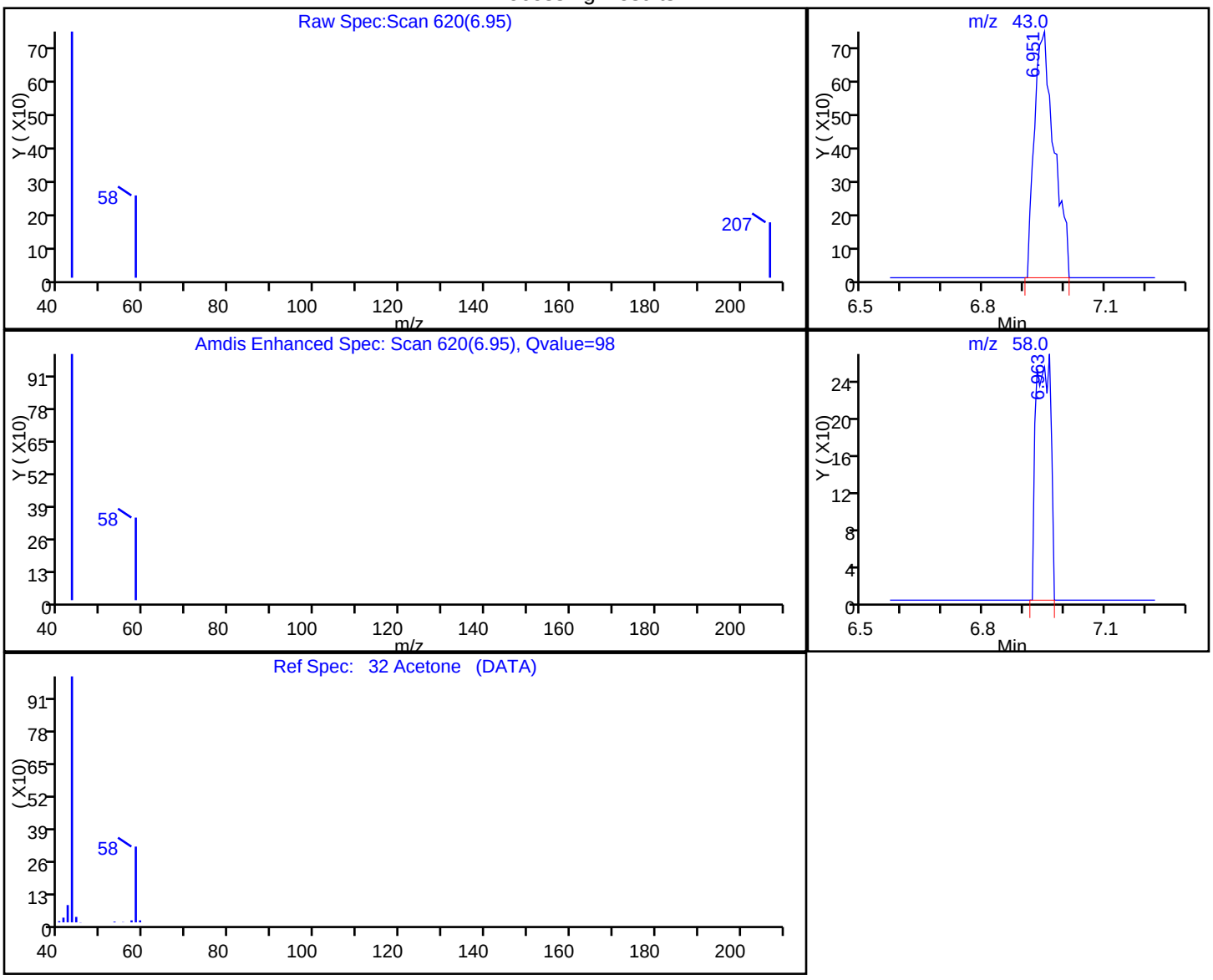
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

32 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
6.95	43.00	2508	-0.868995
6.96	58.00	652	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

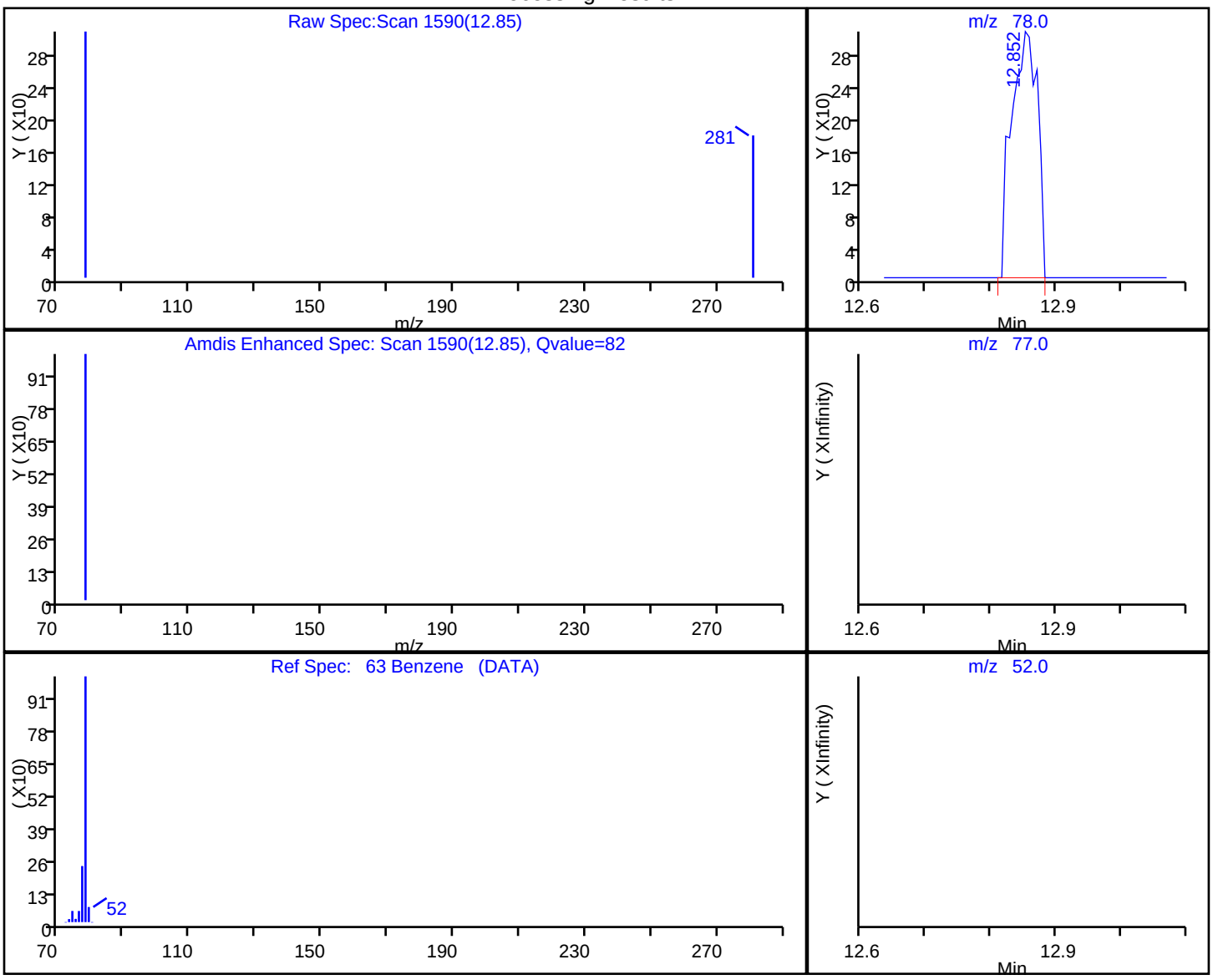
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

63 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
12.85	78.00	856	0.019269
12.85	77.00	0	
12.85	52.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

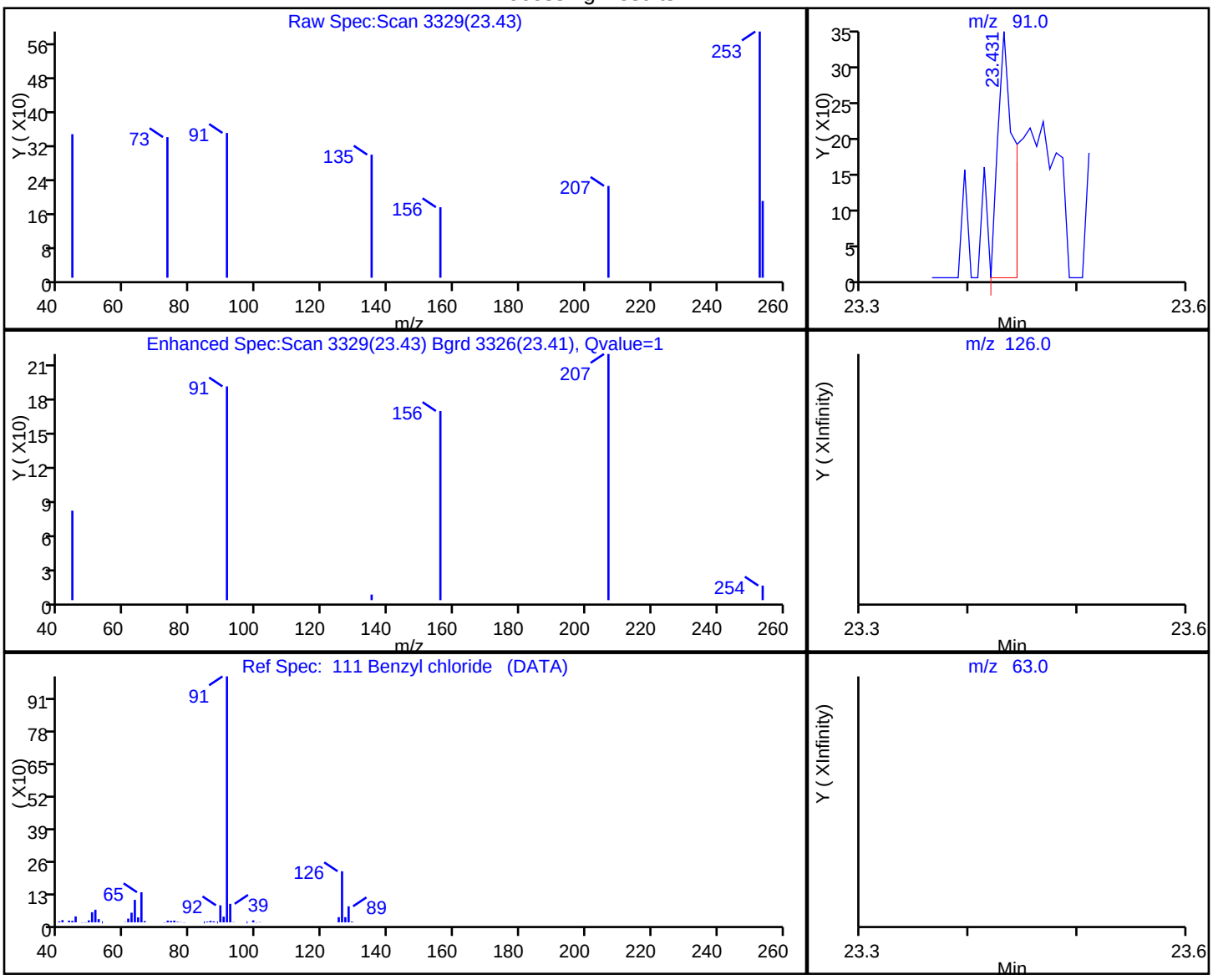
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

111 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
23.43	91.00	340	0.005236
23.44	126.00	0	
23.44	63.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:15:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

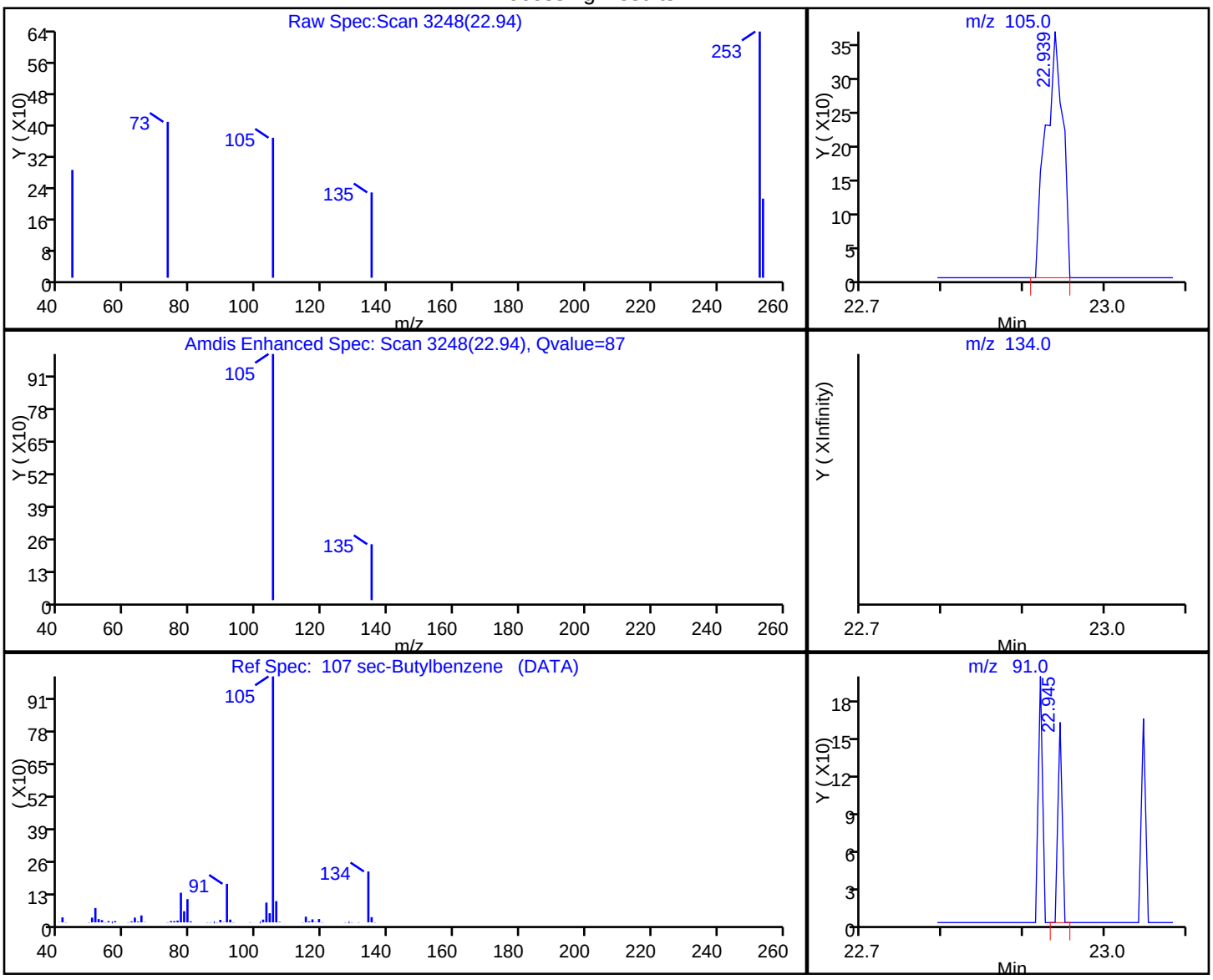
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

107 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
22.94	105.00	525	0.007110
22.94	134.00	0	
22.94	91.00	57	

Reviewer: sanjumnair, 15-Feb-2018 13:15:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

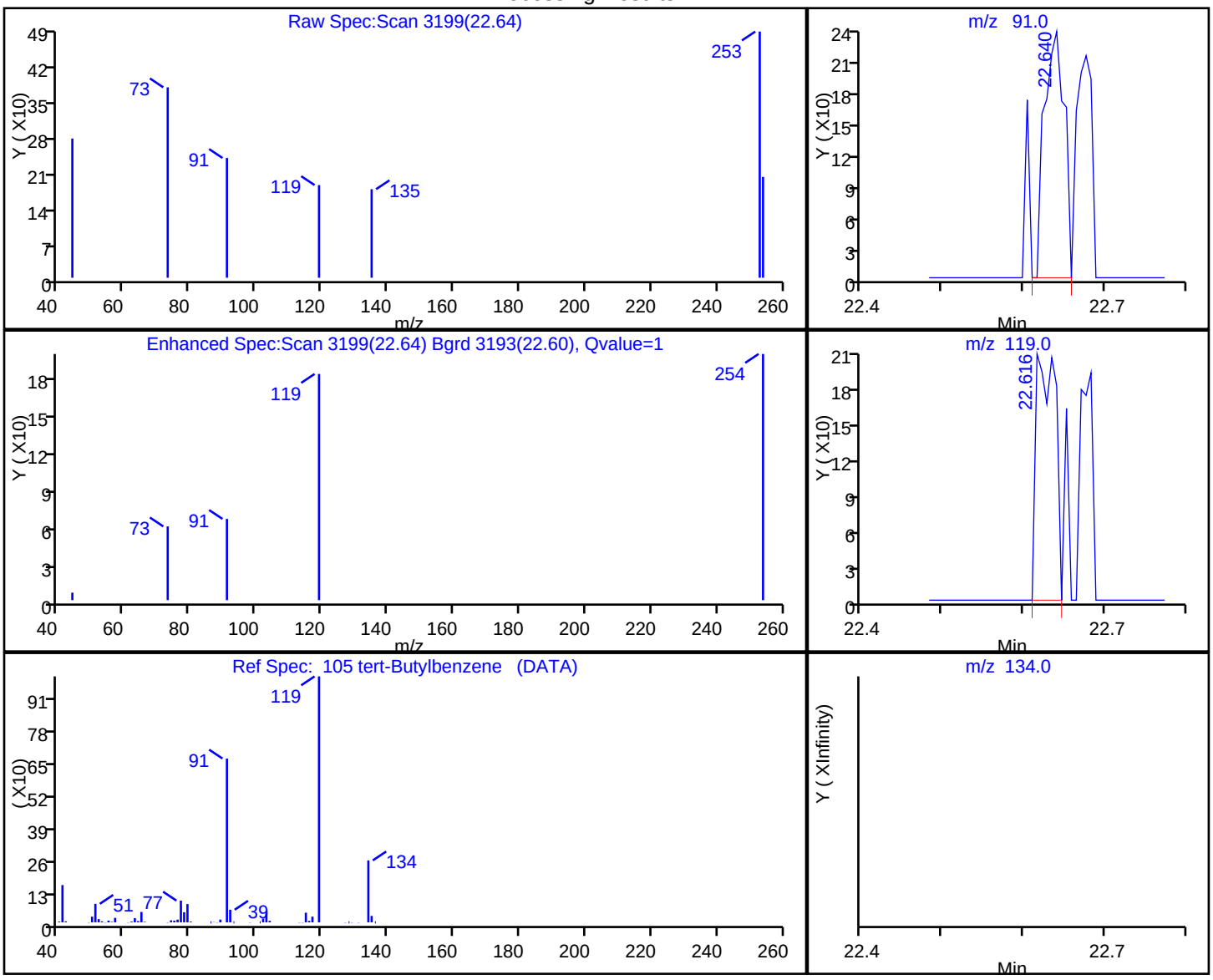
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

105 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.64	91.00	403	0.011270
22.62	119.00	348	
22.63	134.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:15:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

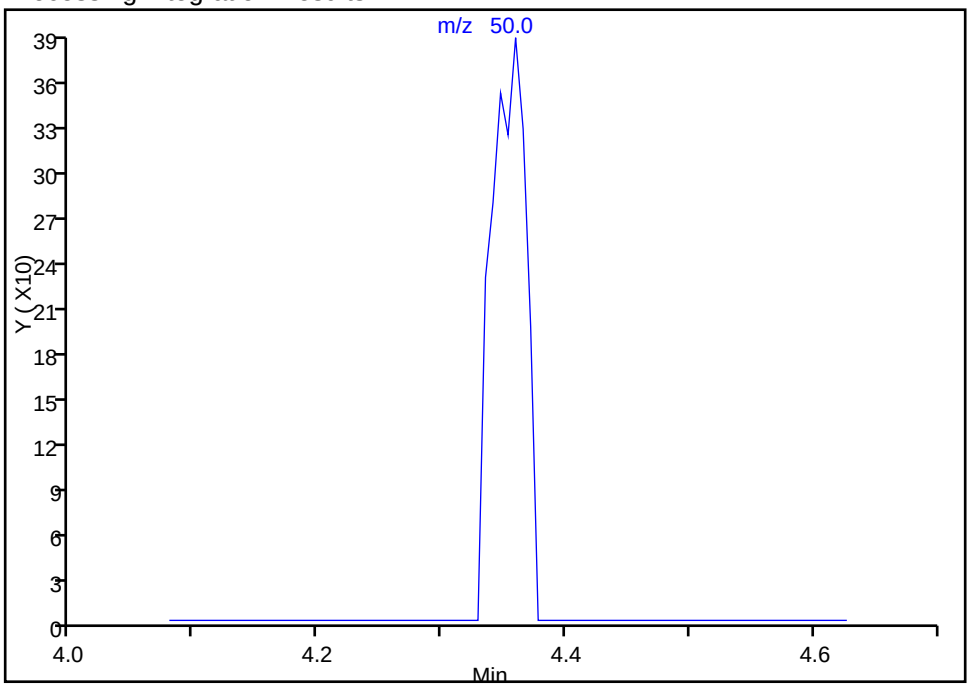
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Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

16 Chloromethane, CAS: 74-87-3

Signal: 1

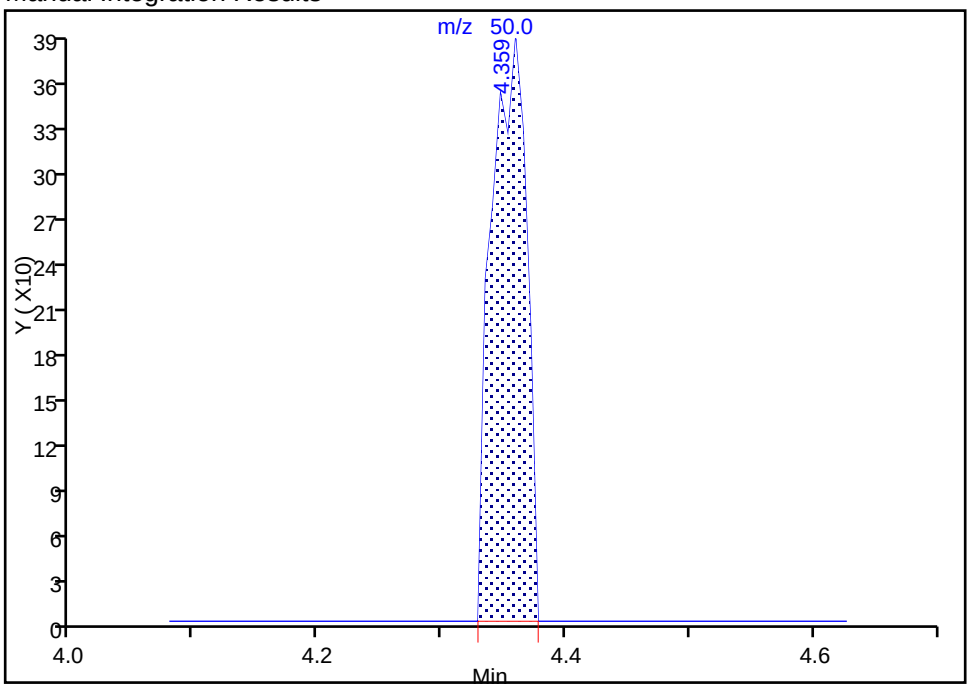
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 765
Amount: 0.046960
Amount Units: ppb v/v



Reviewer: sanjumnair, 15-Feb-2018 13:10:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

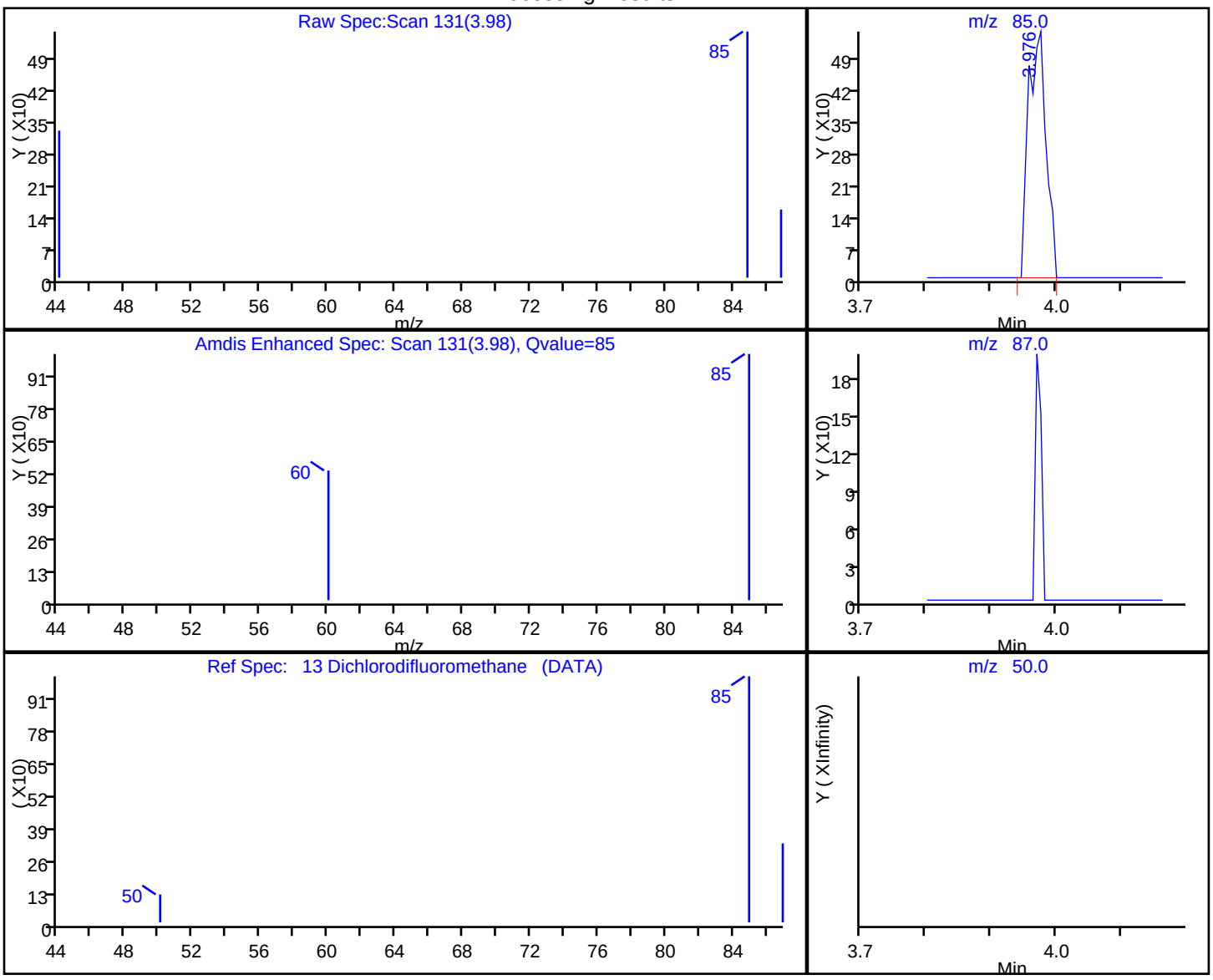
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

13 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
3.98	85.00	1048	0.029982
3.98	87.00	0	
3.98	50.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

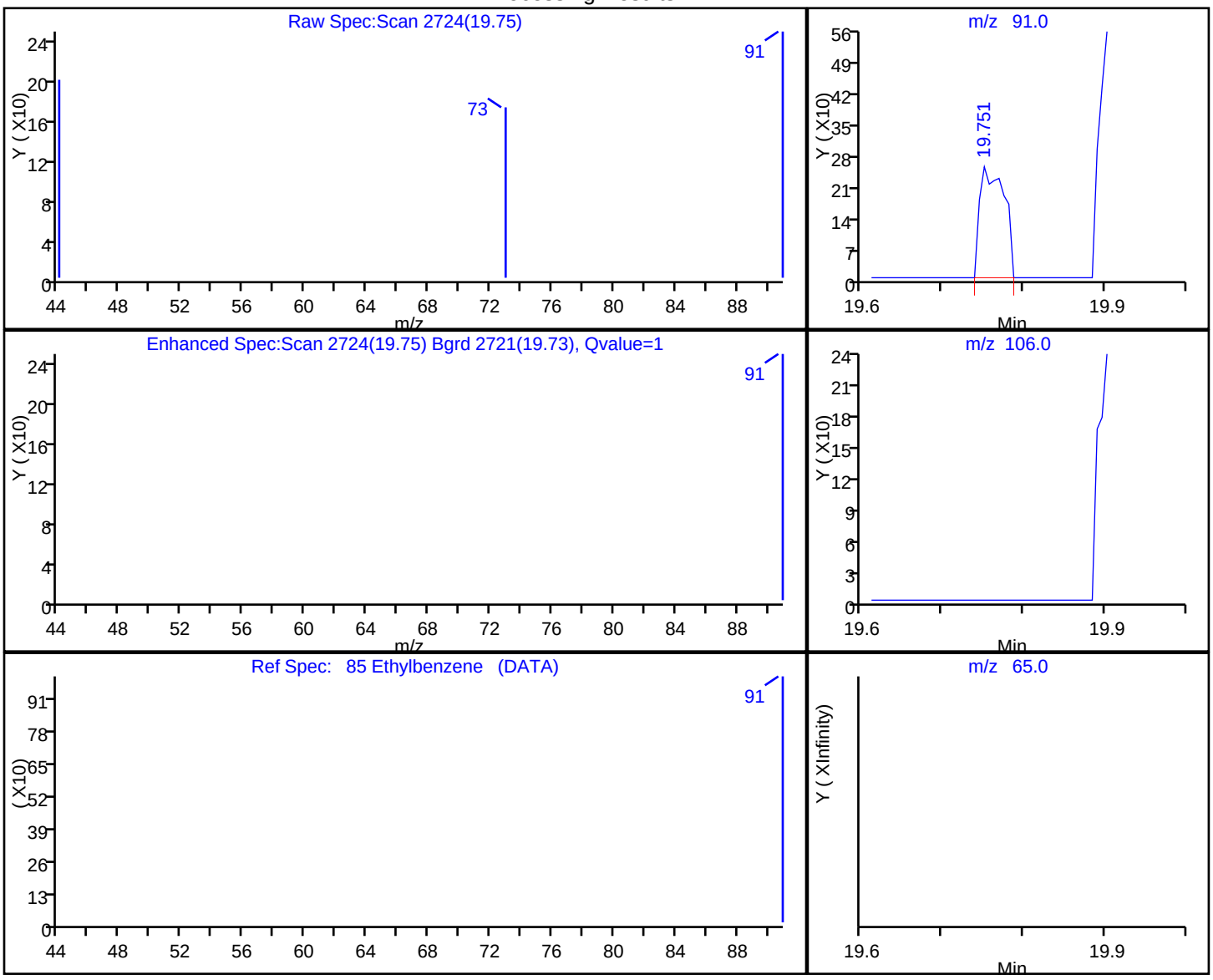
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

85 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.75	91.00	522	-0.021829
19.76	106.00	0	
19.76	65.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

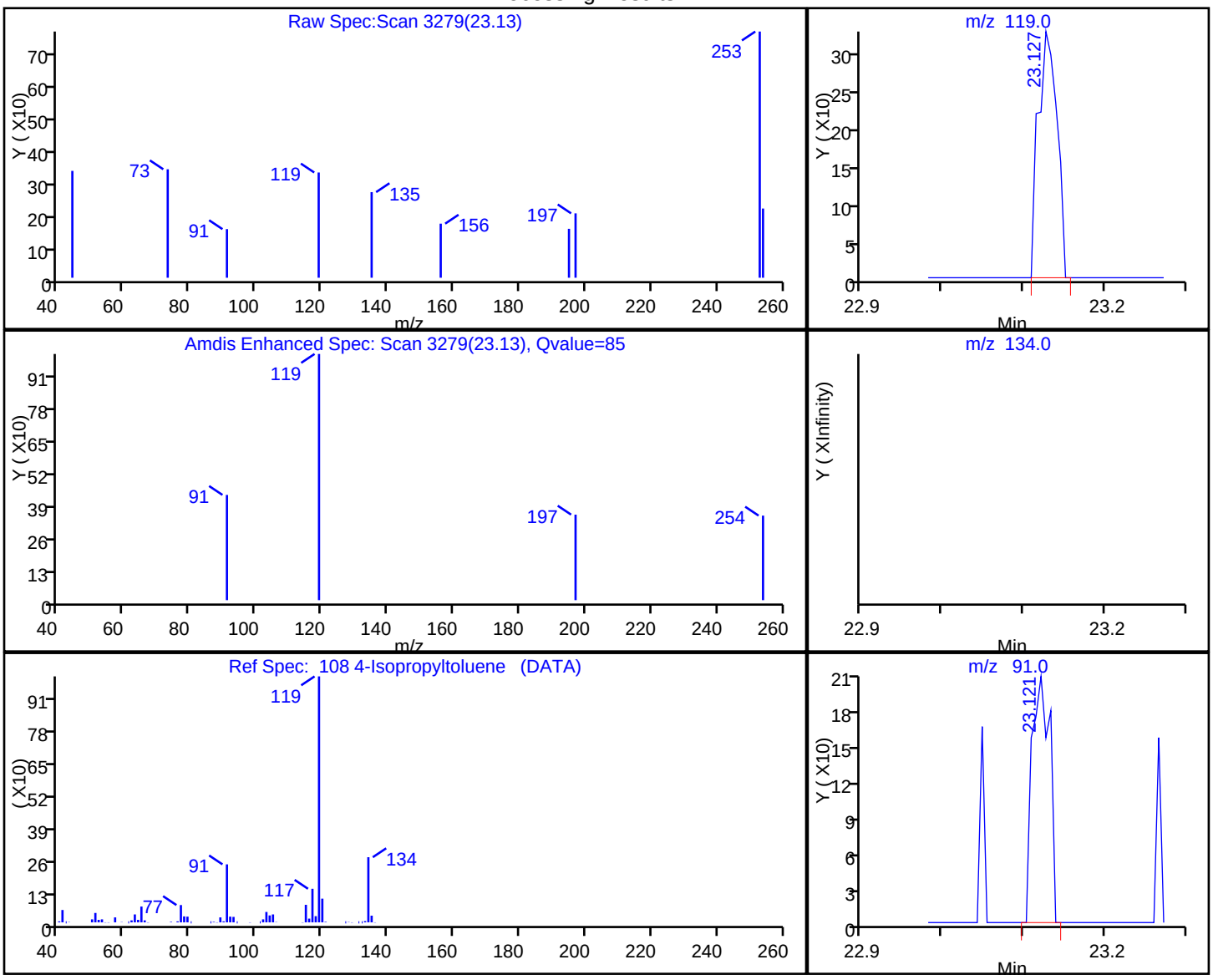
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

108 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
23.13	119.00	528	0.008171
23.13	134.00	0	
23.12	91.00	308	

Reviewer: sanjumnair, 15-Feb-2018 13:15:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

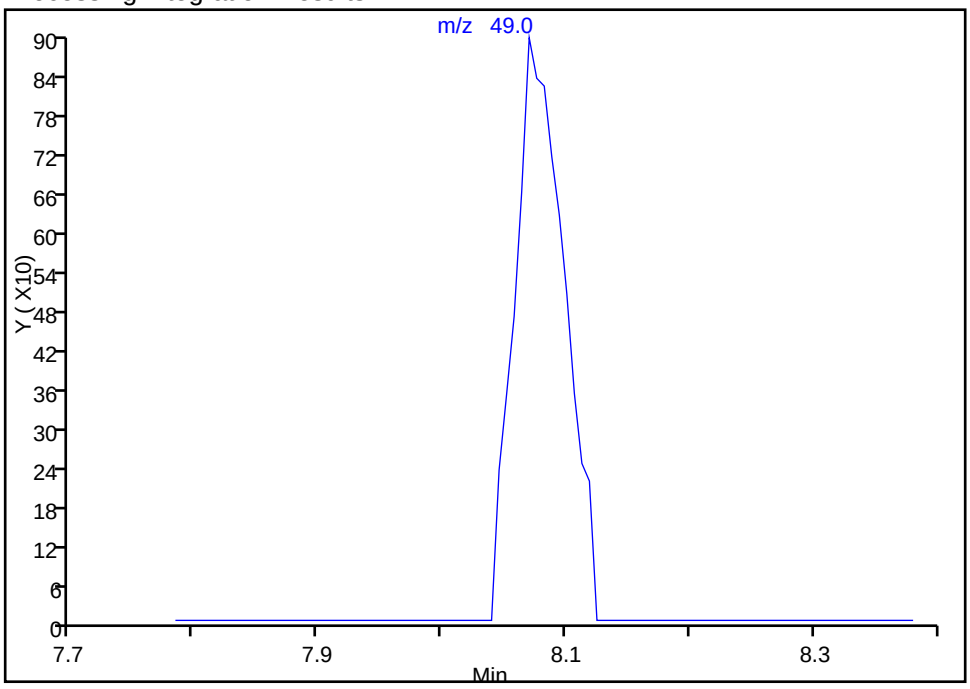
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Injection Date:	14-Feb-2018 21:22:30	Instrument ID:	ATMS2		
Lims ID:	MB				
Client ID:					
Operator ID:	SV	ALS Bottle#:	16	Worklist Smp#:	13
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

39 Methylene Chloride, CAS: 75-09-2

Signal: 1

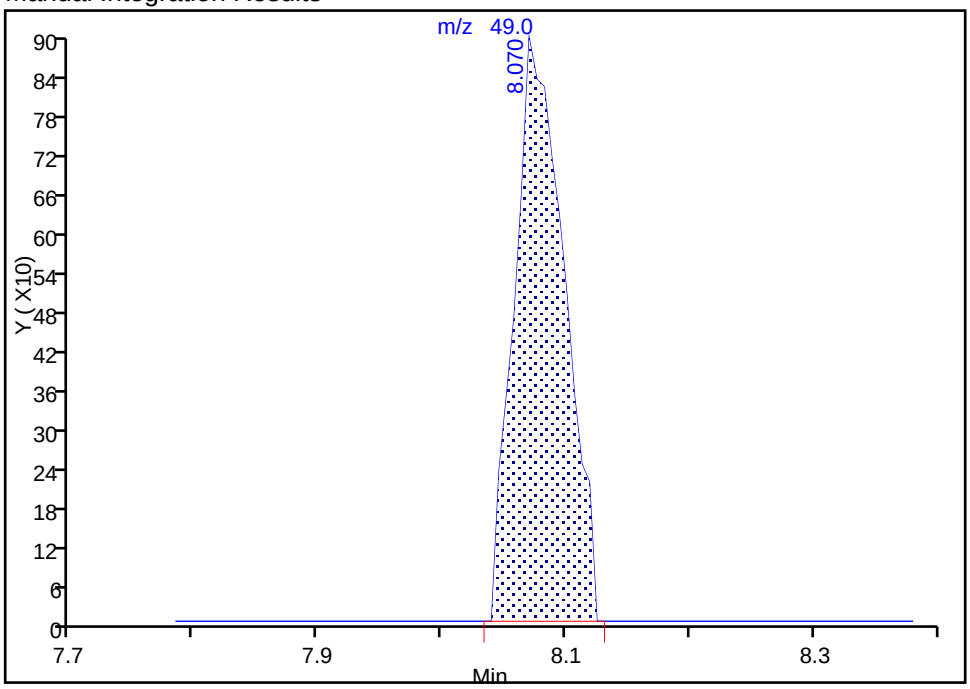
Not Detected
Expected RT: 8.09

Processing Integration Results



Manual Integration Results

RT: 8.07
Area: 2504
Amount: 0.125757
Amount Units: ppb v/v



Reviewer: sanjumnair, 15-Feb-2018 13:11:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

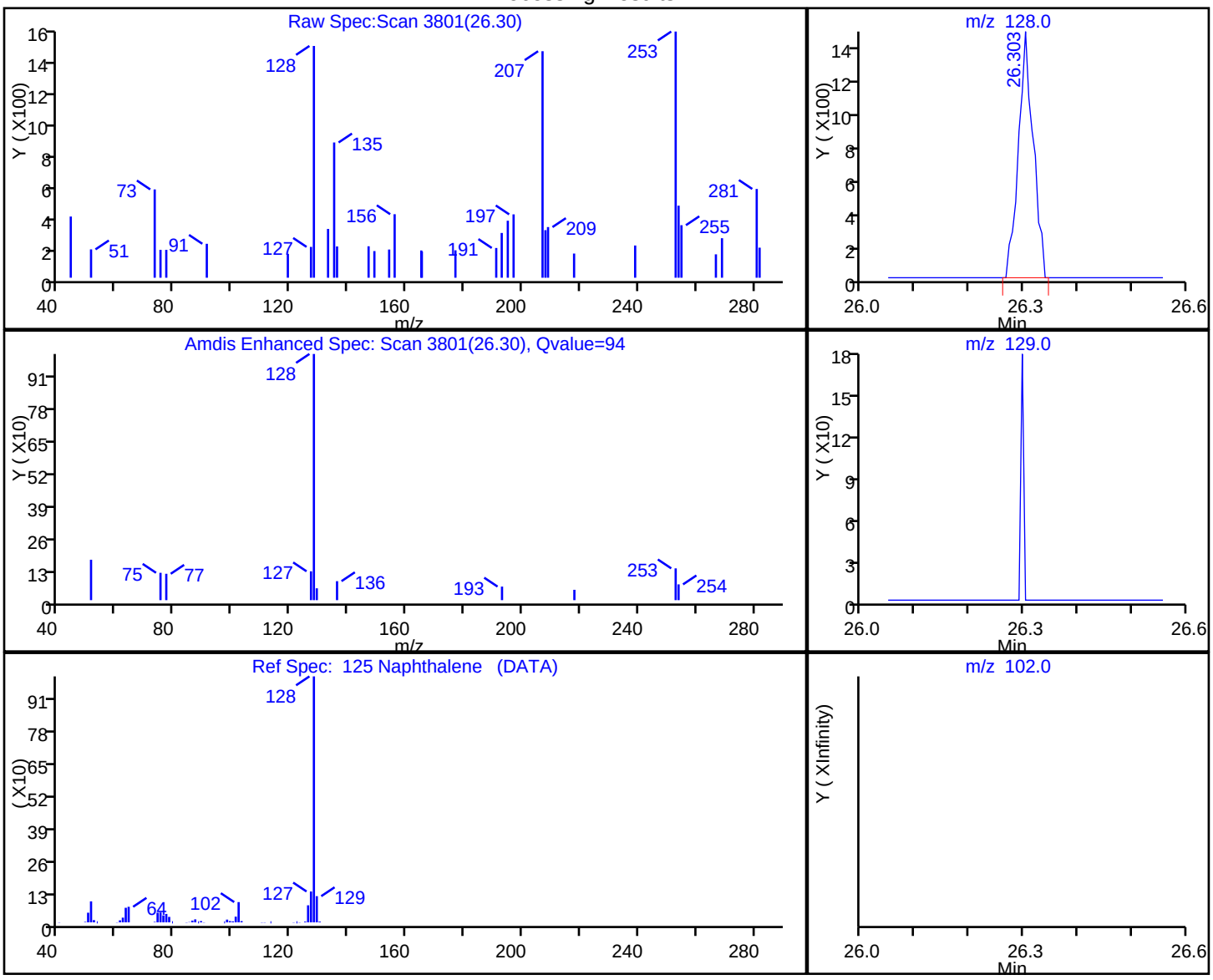
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

125 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
26.30	128.00	2843	0.039665
26.30	129.00	0	
26.30	102.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:15:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

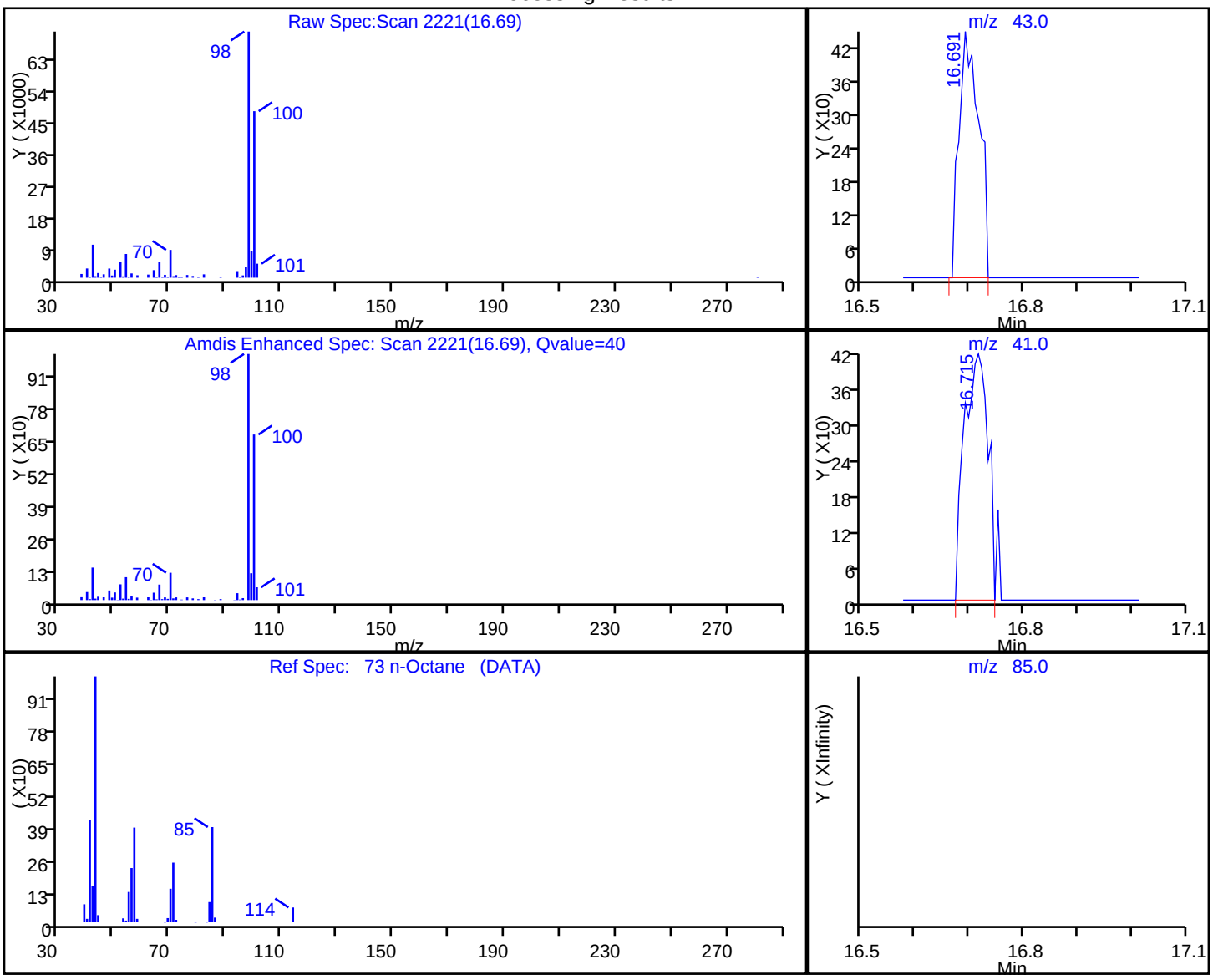
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

73 n-Octane, CAS: 111-65-9

Processing Results



RT	Mass	Response	Amount
16.69	43.00	1133	0.025247
16.72	41.00	1269	
16.79	85.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

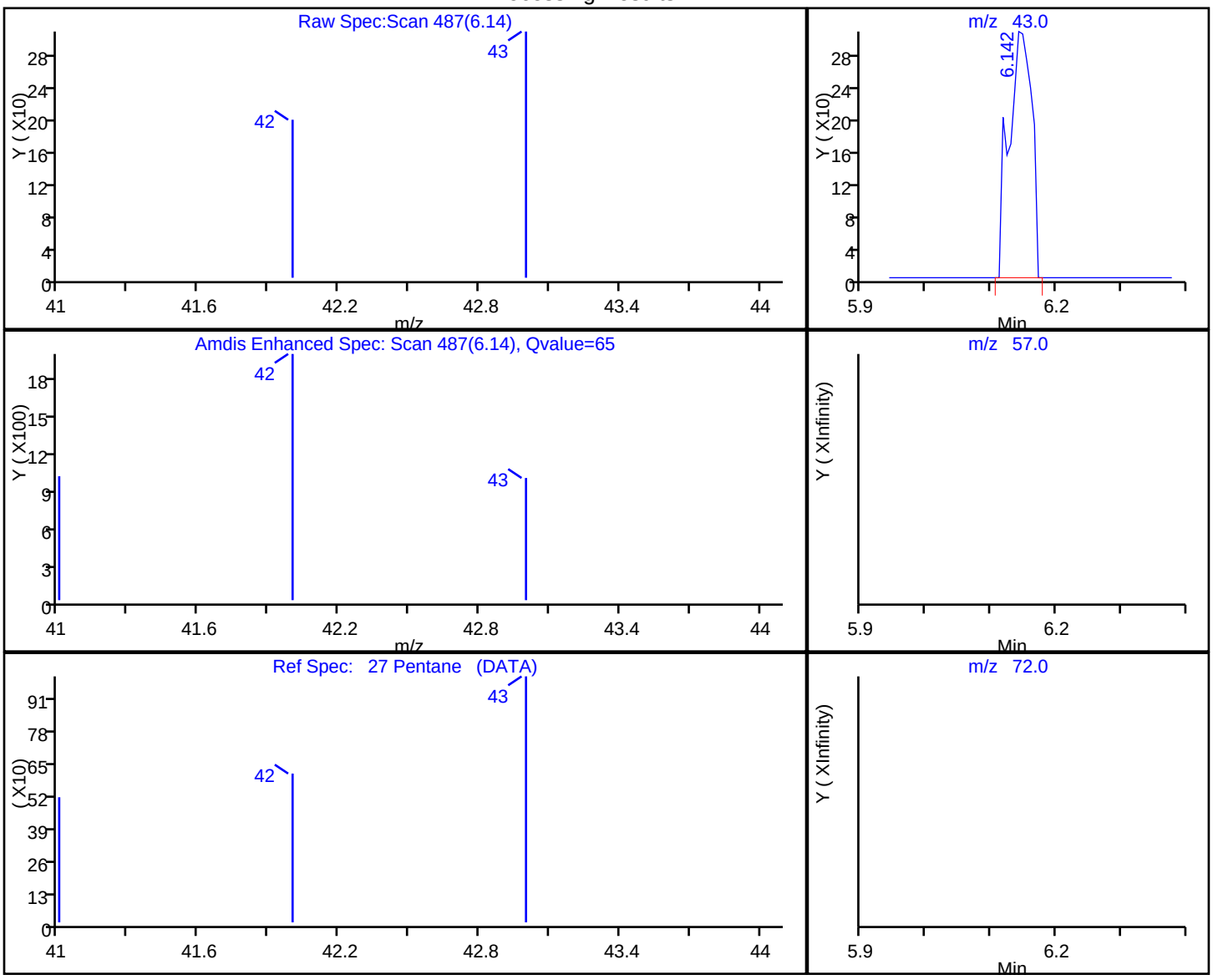
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

27 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
6.14	43.00	754	0.022057
6.16	57.00	0	
6.16	72.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

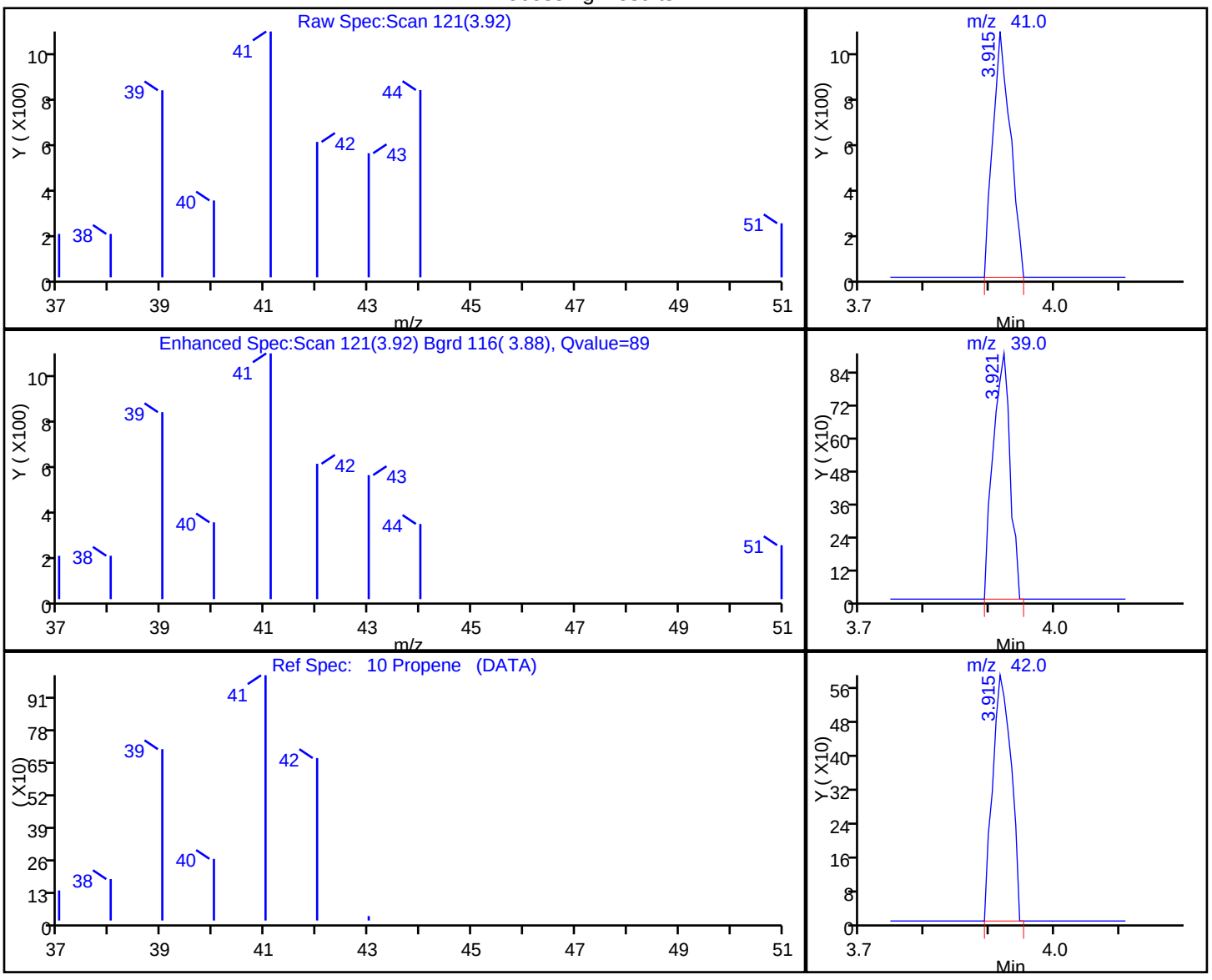
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

10 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
3.92	41.00	2003	0.123890
3.92	39.00	1653	
3.92	42.00	1157	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

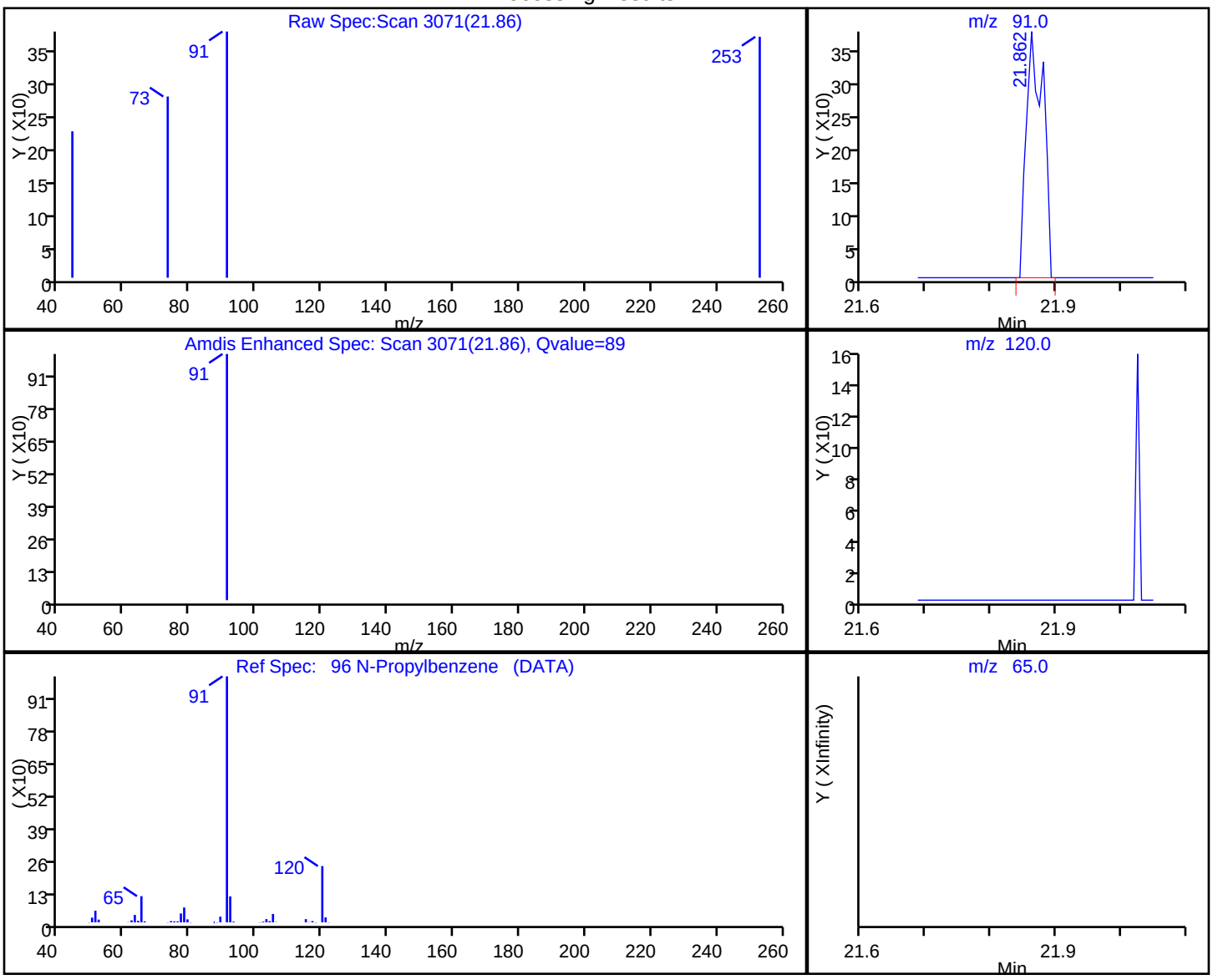
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

96 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
21.86	91.00	680	0.009058
21.87	120.00	0	
21.87	65.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:15:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

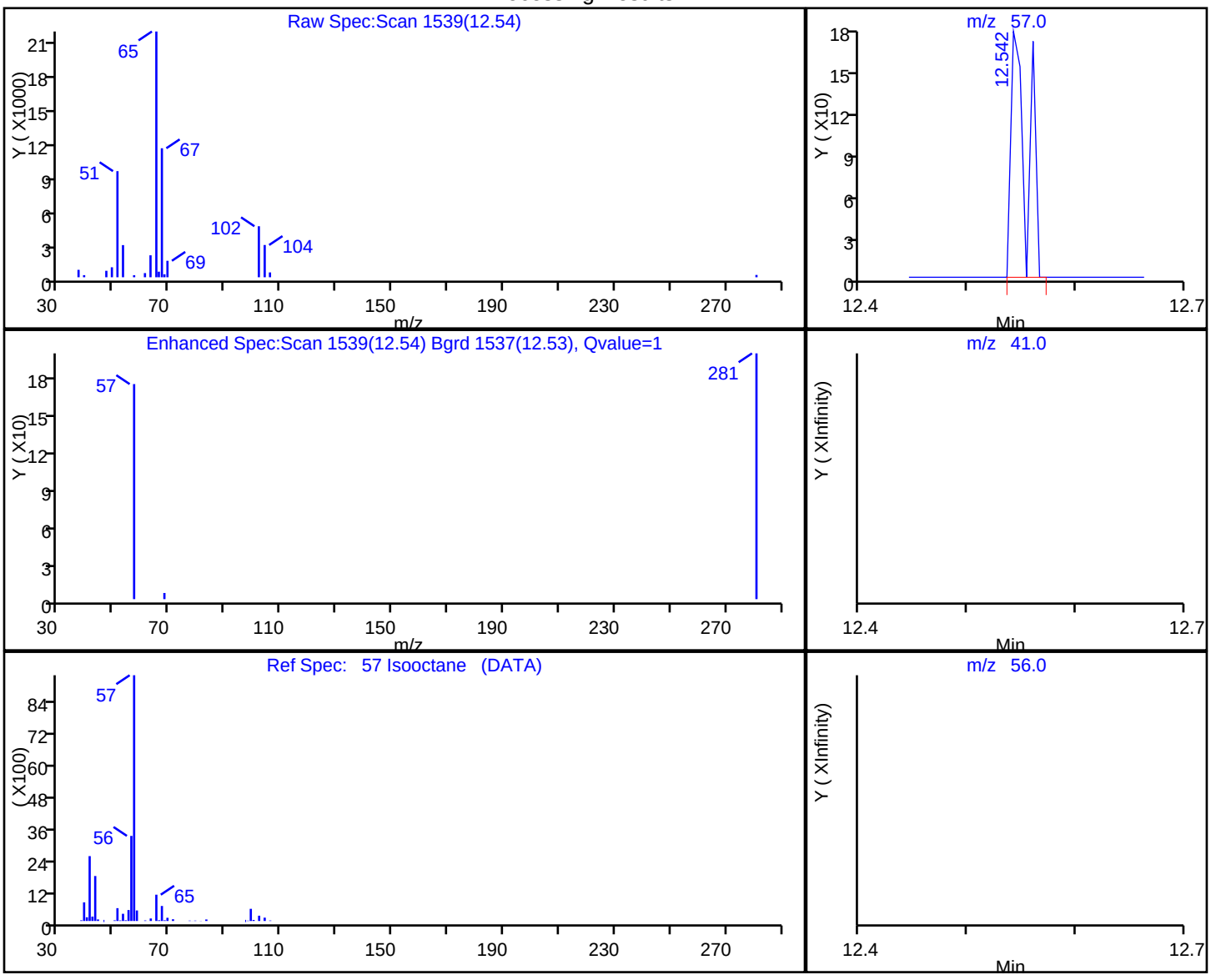
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

57 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
12.54	57.00	180	0.002107
12.55	41.00	0	
12.55	56.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

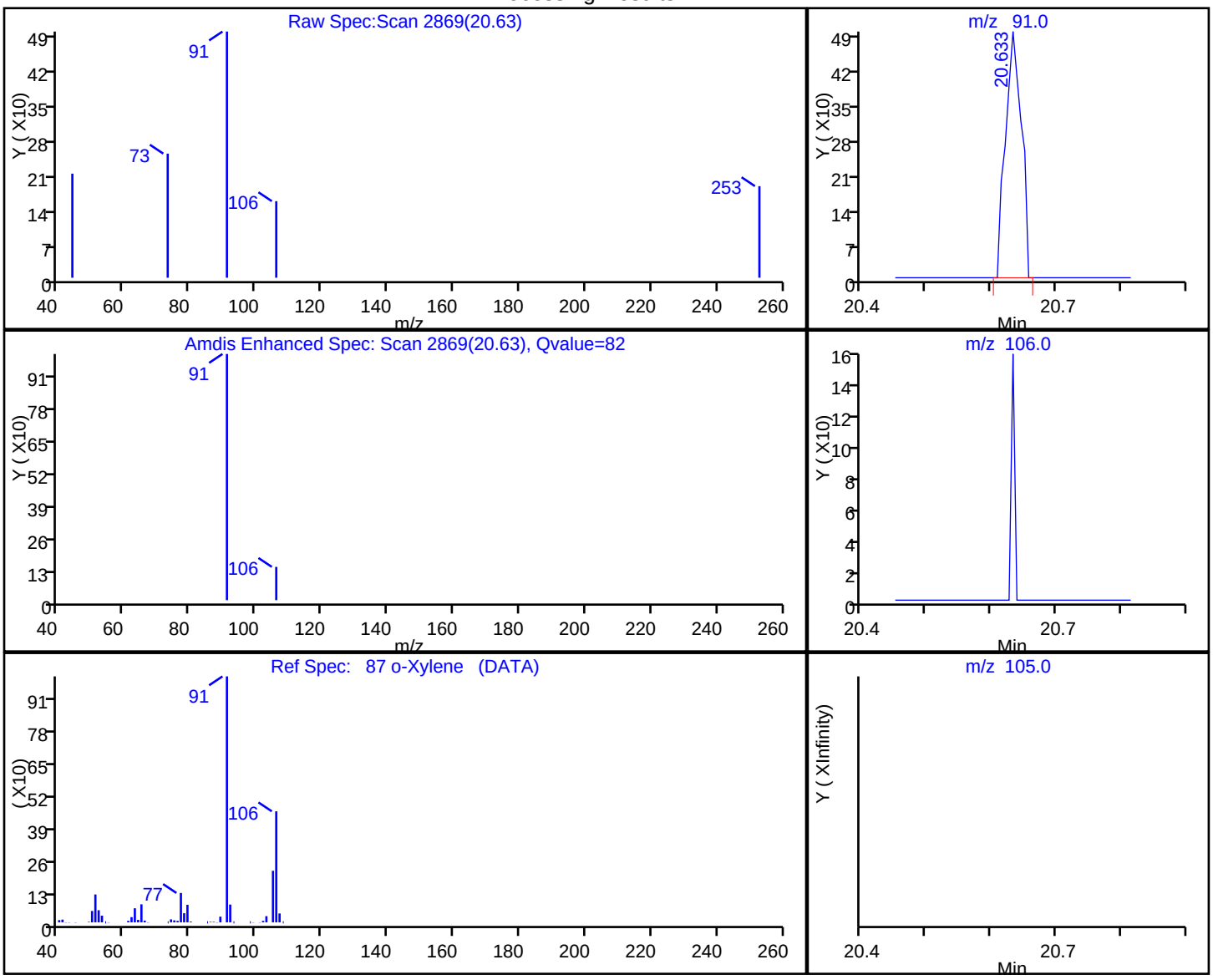
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021414.D
Injection Date: 14-Feb-2018 21:22:30 Instrument ID: ATMS2
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 16 Worklist Smp#: 13
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

87 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
20.63	91.00	841	0.018777
20.63	106.00	0	
20.63	105.00	0	
20.63	78.00	0	

Reviewer: sanjumnair, 15-Feb-2018 13:12:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Lab File ID: MS10216A05.D Lab Sample ID: MB 320-208855/5

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

Instrument ID: ATMS1 Date Analyzed: 02/16/2018 20:54

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34001658	320-35716-1	MS10216A21.D	02/17/2018 12:37
8431	320-35716-2	MS10216A22.D	02/17/2018 13:38
34000465	320-35716-4	MS10216A23.D	02/17/2018 14:38
34001223	320-35716-5	MS10216A24.D	02/17/2018 15:38
34001122	320-35716-6	MS10216A25.D	02/17/2018 16:39

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208855/5

Matrix: Air Lab File ID: MS10216A05.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2018 20:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208855/5

Matrix: Air Lab File ID: MS10216A05.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2018 20:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	ND		0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Feb-2018 20:54:30 ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: SV Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 10:12:14 Calib Date: 16-Feb-2018 18:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A03.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: phanthasena Date: 19-Feb-2018 11:03:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.608	11.607	0.001	76	51274	2.00	2.00	
* 2 1,4-Difluorobenzene	114	13.770	13.769	0.001	100	223332	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.462	20.461	0.001	100	139326	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.798	12.797	0.001	58	133974	2.00	2.10	
$ 5 Toluene-d8 (Surr)	100	17.169	17.169	0.000	100	109424	2.00	1.94	
$ 6 4-Bromofluorobenzene (Surr	174	23.031	23.024	0.007	98	80784	2.00	1.75	
7 Propene	41	4.351	4.351	0.000	38	1412		0.0110	
18 Acetone	43	6.898	6.892	0.006	96	1993		0.0217	
22 Methylene Chloride	49	8.165	8.164	0.001	65	778		0.008722	7a
54 1,1,1,2-Tetrachloroethane	131	20.206	20.205	0.001	90	68		0.001998	
63 1,3,5-Trimethylbenzene	120	23.786	23.788	-0.002	82	52		0.000601	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

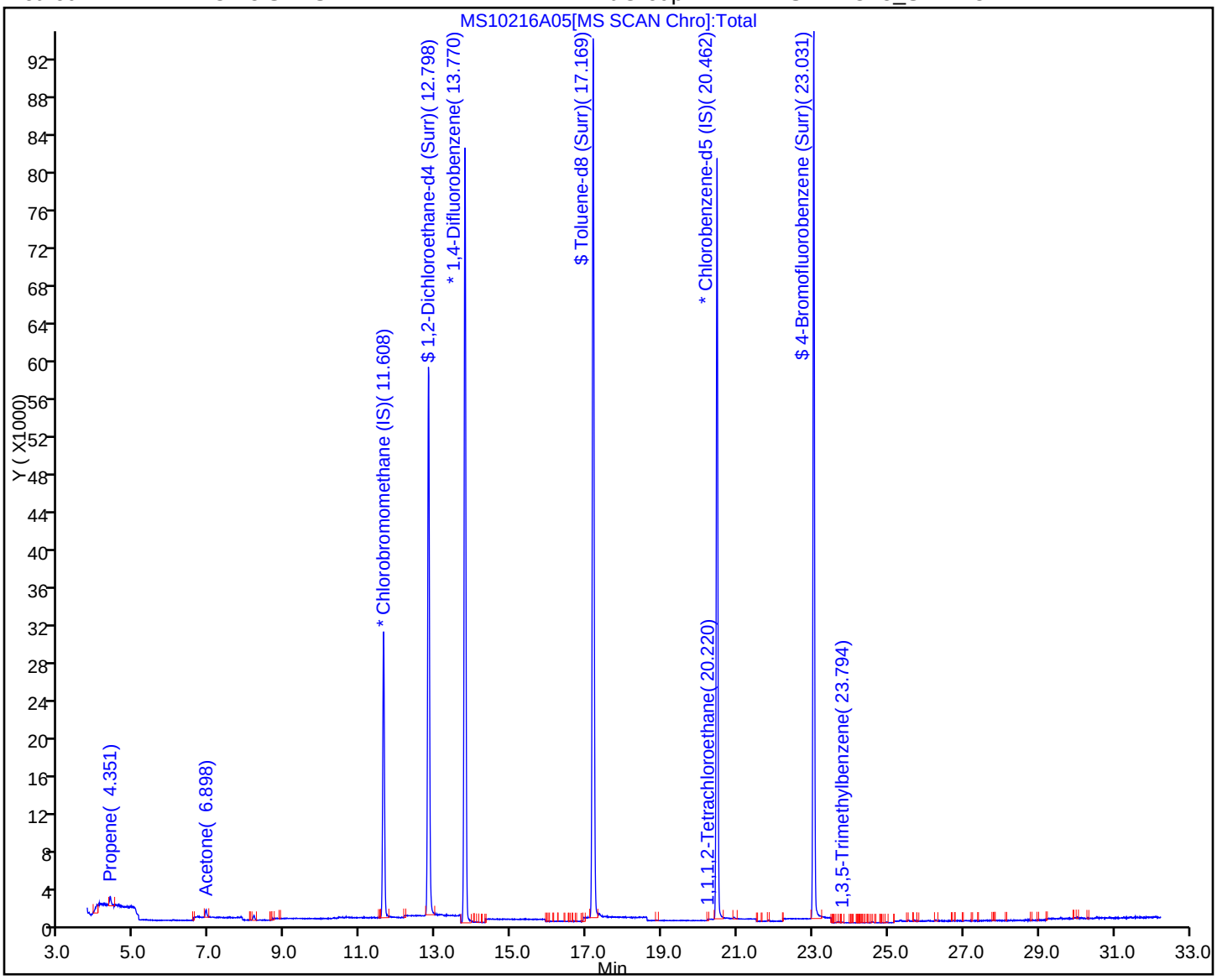
VAMSIS20_00102 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 10:13:24 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A05.D

Injection Date:	16-Feb-2018 20:54:30	Instrument ID:	ATMS1		
Lims ID:	MB				
Client ID:					
Operator ID:	SV	ALS Bottle#:	14	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

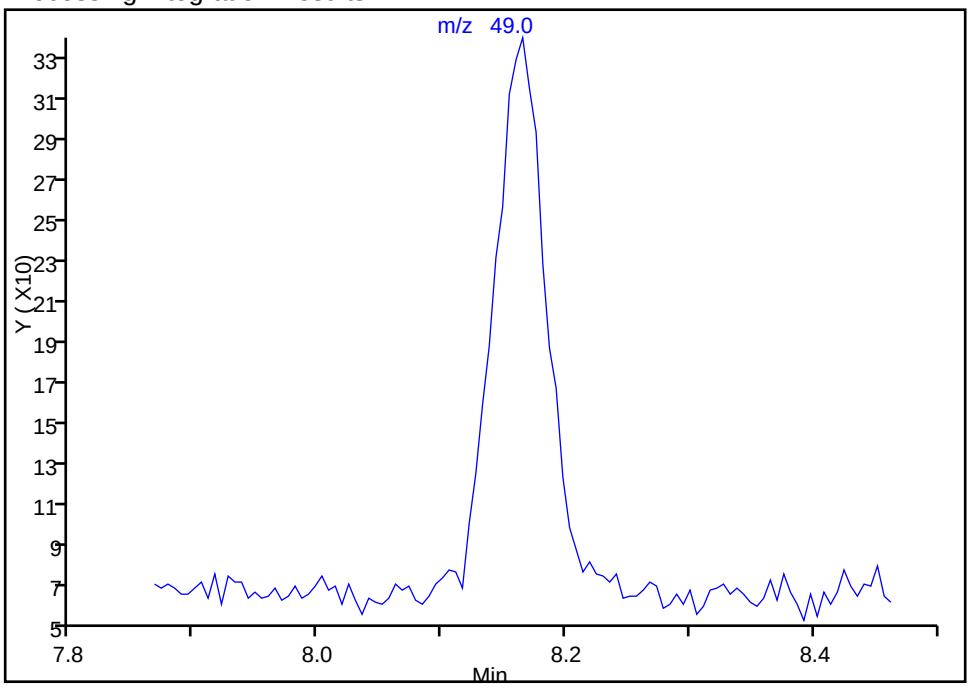
Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A05.D
Injection Date: 16-Feb-2018 20:54:30 Instrument ID: ATMS1
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO-15 SIM SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

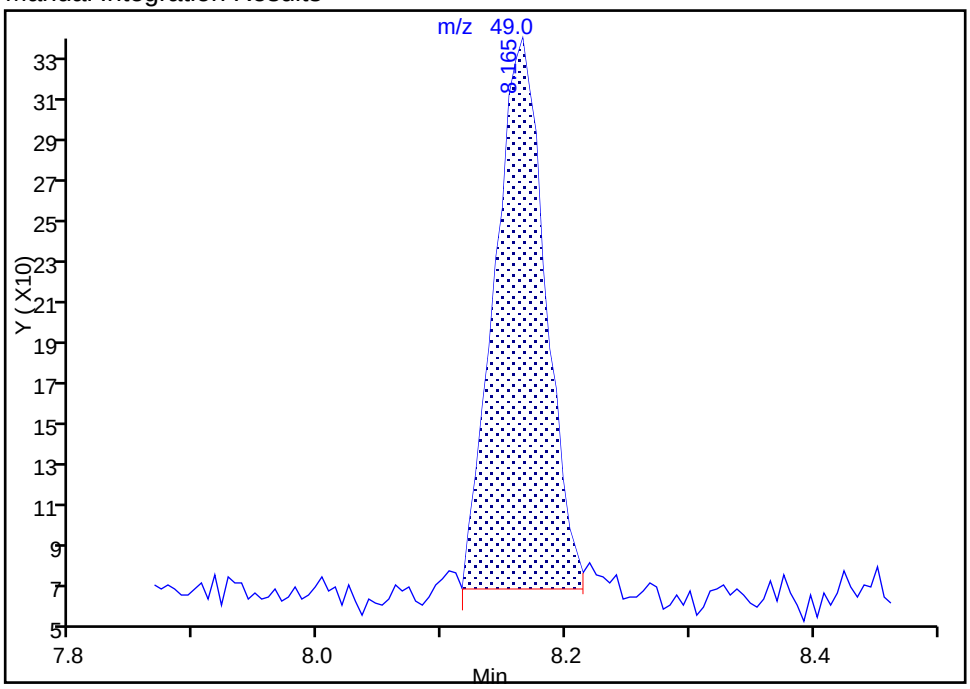
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.17
Area: 778
Amount: 0.008722
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:02:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

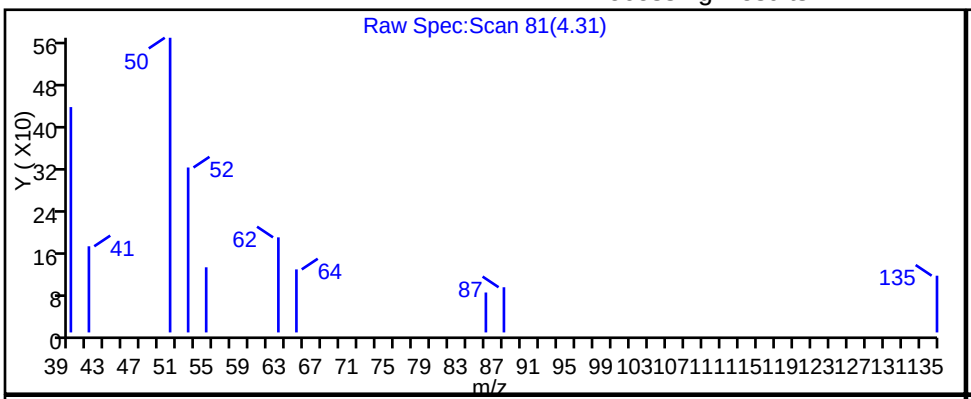
User Disabled Compound Report

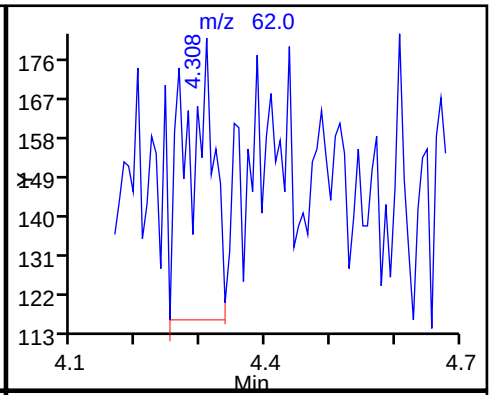
TestAmerica Sacramento

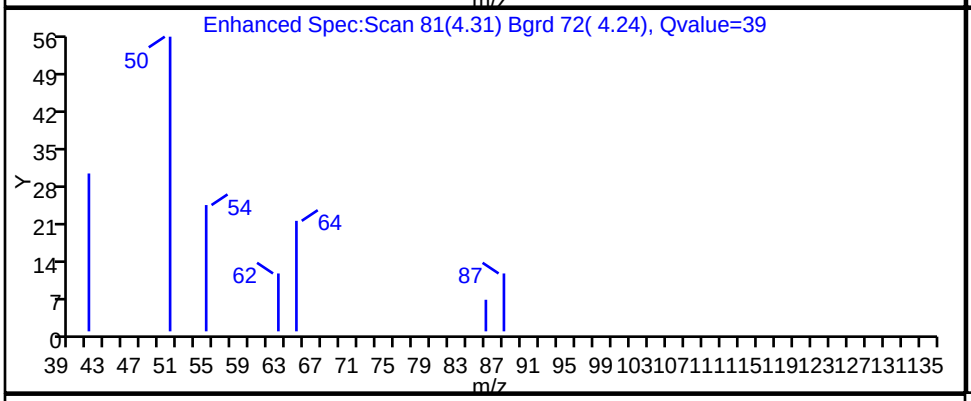
Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A05.D
Injection Date: 16-Feb-2018 20:54:30 Instrument ID: ATMS1
Lims ID: MB
Client ID:
Operator ID: SV ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO-15 SIM SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

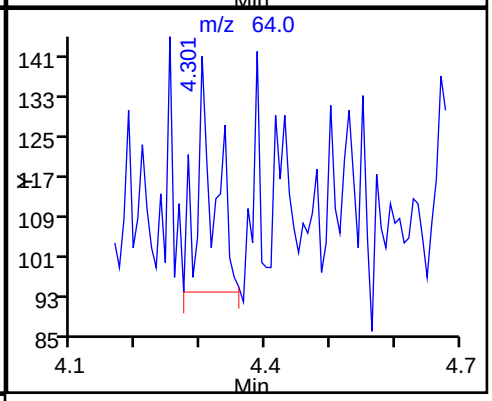
11 Vinyl chloride, CAS: 75-01-4

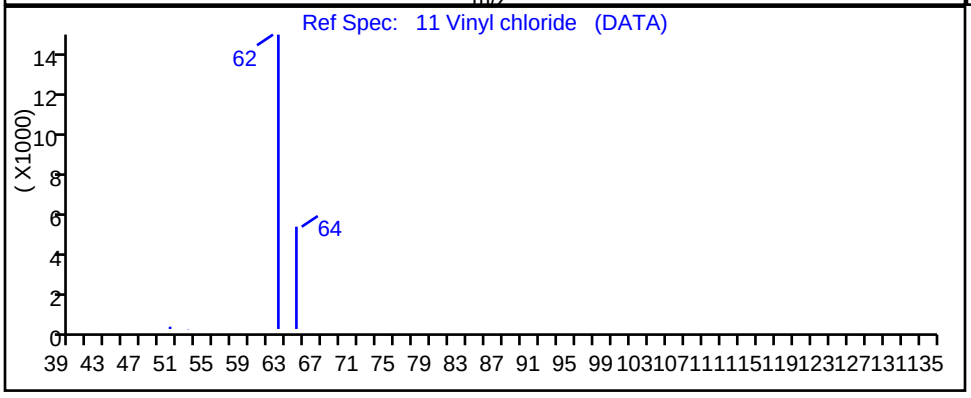
Processing Results











RT	Mass	Response	Amount
4.31	62.00	201	0.005889
4.30	64.00	90	

Reviewer: phanthasena, 19-Feb-2018 11:03:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Lab File ID: MS1021805.D Lab Sample ID: MB 320-208997/5

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

Instrument ID: ATMS1 Date Analyzed: 02/18/2018 14:42

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34000081	320-35716-7	MS1021806.D	02/18/2018 15:41
34000881	320-35716-8	MS1021807.D	02/18/2018 16:41
8124	320-35716-9	MS1021808.D	02/18/2018 17:40
34000150	320-35716-10	MS1021809.D	02/18/2018 18:40
8303	320-35716-11	MS1021811.D	02/18/2018 20:34
8126	320-35716-12	MS1021812.D	02/18/2018 21:34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208997/5

Matrix: Air Lab File ID: MS1021805.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 14:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208997/5

Matrix: Air Lab File ID: MS1021805.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 14:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	ND		0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021805.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 18-Feb-2018 14:42:30 ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:18:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	11.608	11.608	0.000	79	57698	2.00	2.00	
*	2 1,4-Difluorobenzene	114	13.766	13.769	-0.003	100	221984	2.00	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.462	20.461	0.001	100	178443	2.00	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	12.798	12.797	0.001	69	138984	2.00	1.99	
$	5 Toluene-d8 (Surr)	100	17.169	17.169	0.000	100	126855	2.00	2.01	
$	6 4-Bromofluorobenzene (Surr	174	23.031	23.031	0.000	98	124643	2.00	1.85	
	7 Propene	41	4.344	4.351	-0.007	52	1730		0.0129	
	18 Acetone	43	6.880	6.886	-0.006	99	1530		0.0105	
	54 1,1,1,2-Tetrachloroethane	131	20.213	20.205	0.008	93	68		0.001560	

Reagents:

VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021805.D

Injection Date: 18-Feb-2018 14:42:30 Instrument ID: ATMS1

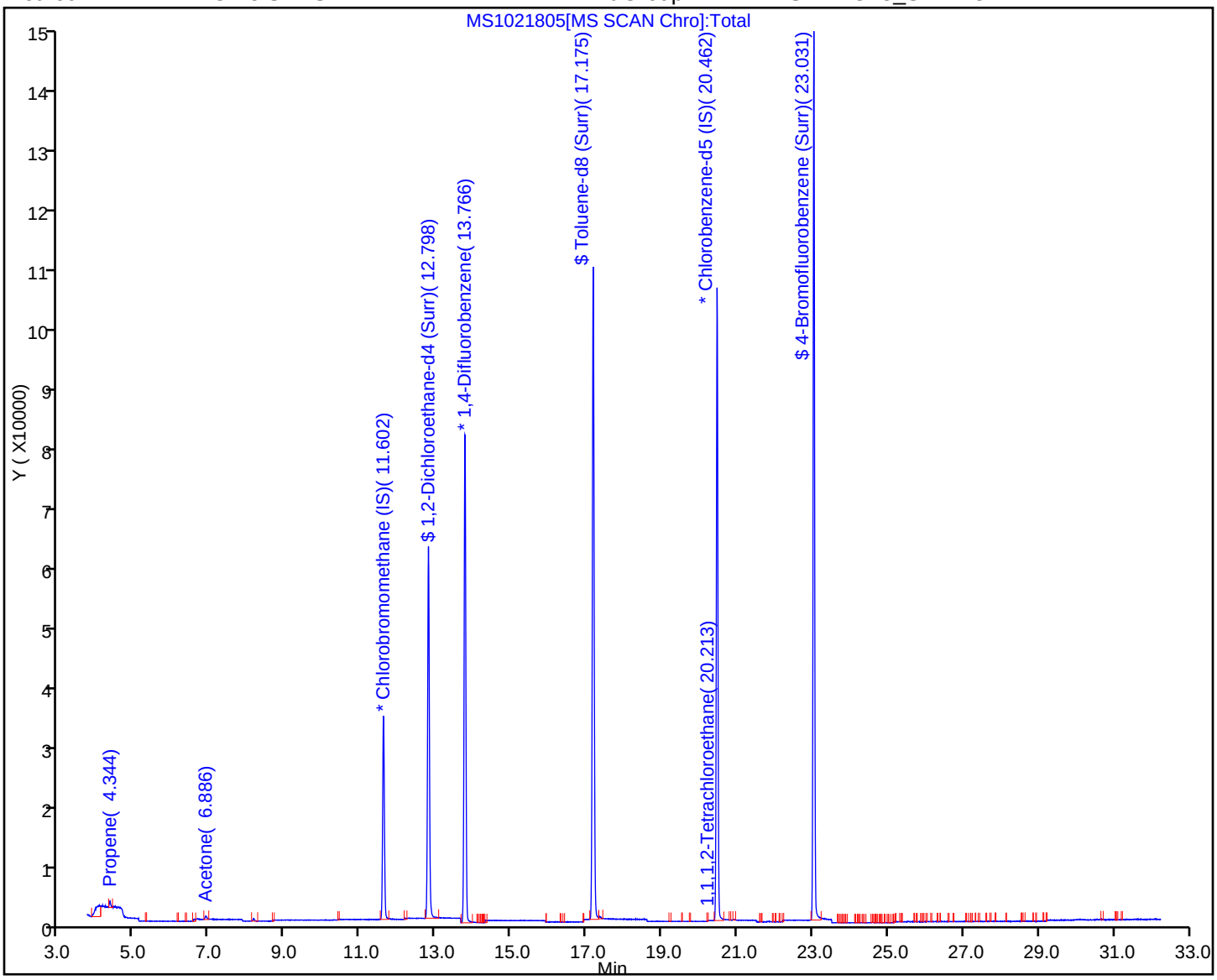
Lims ID: MB

Client ID:

Operator ID: SRS ALS Bottle#: 14 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO-15 SIM SIM Limit Group: MSA - TO15_SIM - ICAL



FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Lab File ID: MS12021805.D Lab Sample ID: MB 320-208998/5

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

Instrument ID: ATMS12 Date Analyzed: 02/18/2018 14:30

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34000355	320-35833-1	MS12021806.D	02/18/2018 15:31
34001439	320-35833-2	MS12021807.D	02/18/2018 16:32
34001477	320-35833-3	MS12021808.D	02/18/2018 17:33
34000084	320-35833-5	MS12021811.D	02/18/2018 20:27
34001132	320-35833-7	MS12021813.D	02/18/2018 22:29
34001217	320-35833-8	MS12021814.D	02/18/2018 23:30
34002114	320-35833-9	MS12021816.D	02/19/2018 01:24
34001124	320-35833-10	MS12021817.D	02/19/2018 02:26
34000342	320-35833-11	MS12021818.D	02/19/2018 03:27
34000016	320-35833-12	MS12021819.D	02/19/2018 04:28

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208998/5

Matrix: Air Lab File ID: MS12021805.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 14:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208998/5

Matrix: Air Lab File ID: MS12021805.D

Analysis Method: TO-15 SIM Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 14:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.311		0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	126		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021805.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 18-Feb-2018 14:30:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:29:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	95	23024	2.00	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.494	0.004	100	110760	2.00	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	93161	2.00	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	98	61840	2.00	2.51	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	65542	2.00	2.00	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	98	66610	2.00	1.97	
7 Propene	41	4.239	4.223	0.016	97	483		0.0360	
17 Acrolein	56	7.557	7.521	0.036	80	98		0.0176	
18 Acetone	43	7.771	7.717	0.054	99	8134		0.3109	
29 2-Butanone (MEK)	72	11.467	11.420	0.047	99	127		0.0204	

Reagents:

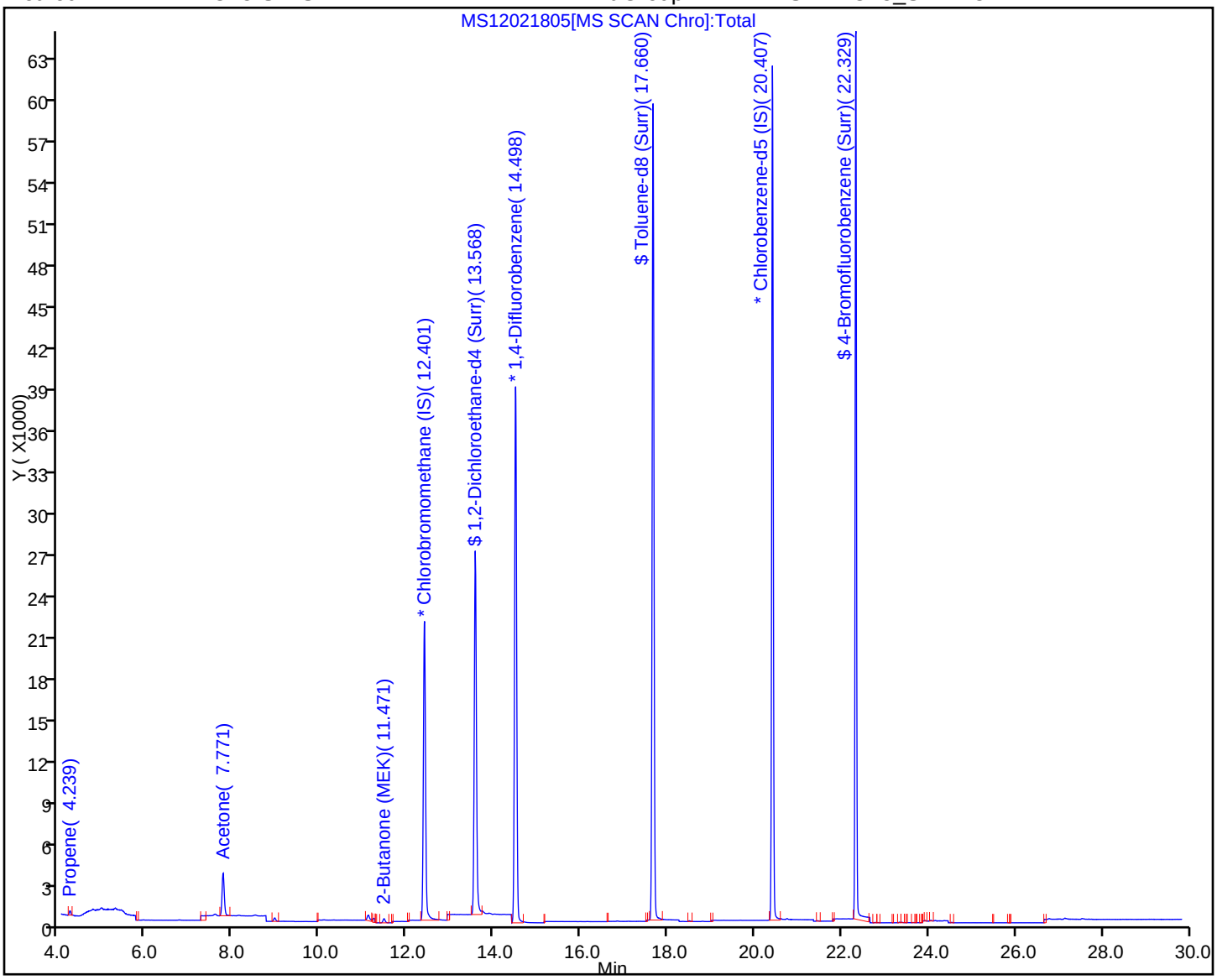
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021805.D

Injection Date:	18-Feb-2018 14:30:30	Instrument ID:	ATMS12		
Lims ID:	MB				
Client ID:					
Operator ID:	SRS	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



Report Date: 19-Feb-2018 14:13:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021805.D

Injection Date: 18-Feb-2018 14:30:30 Instrument ID: ATMS12

Lims ID: MB

Client ID:

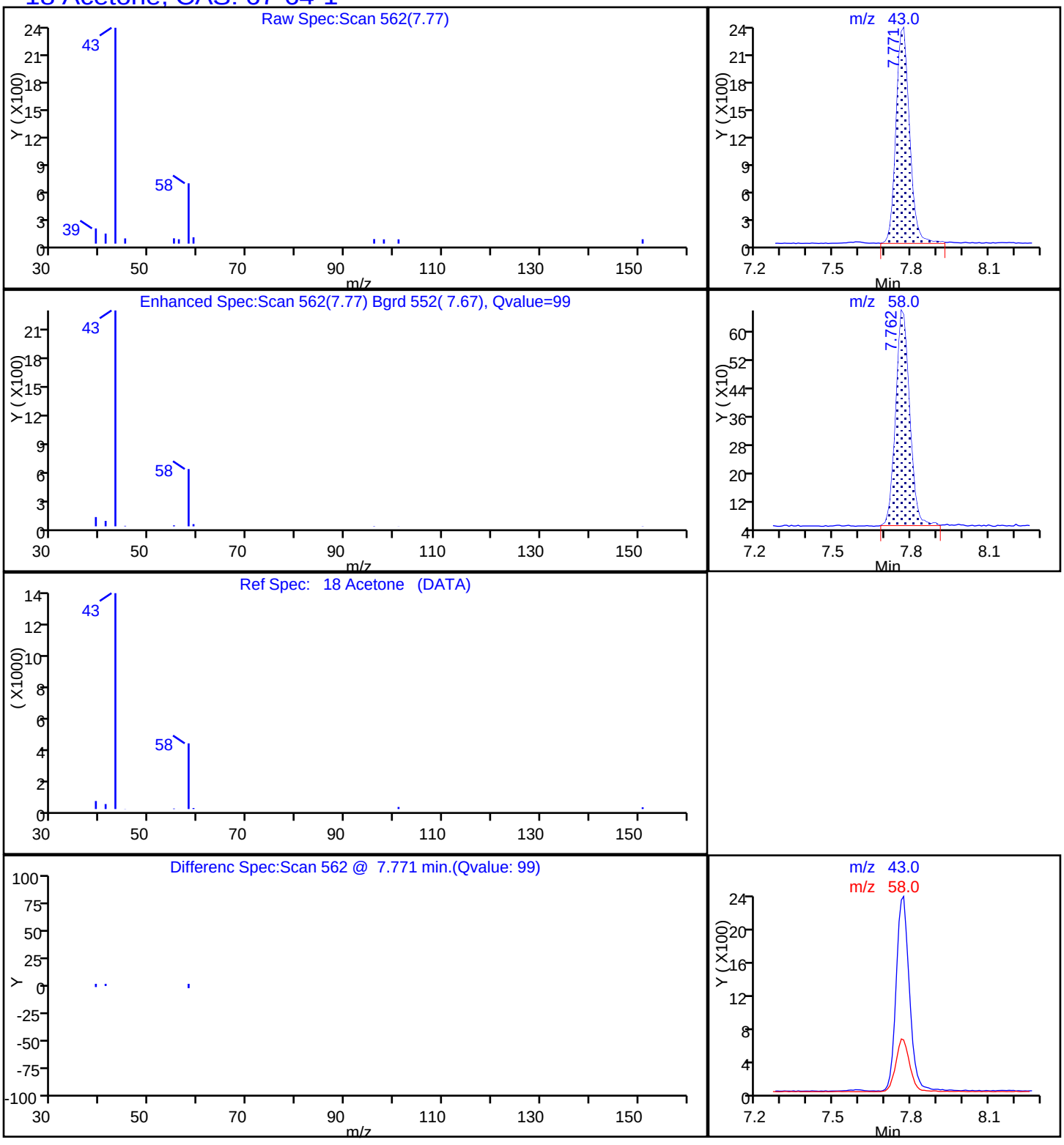
Operator ID: SRS ALS Bottle#: 5 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: TO15-SIMSIM Limit Group: MSA - TO15_SIM - ICAL

Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1



FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Lab File ID: MS6021405.D Lab Sample ID: MB 320-208389/5

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

Instrument ID: ATMS6 Date Analyzed: 02/14/2018 18:07

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
34002099	320-35976-1	MS6021408.D	02/14/2018 21:07

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208389/5

Matrix: Air Lab File ID: MS6021405.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 18:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208389 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208389/5

Matrix: Air Lab File ID: MS6021405.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 18:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208389 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208389/5

Matrix: Air Lab File ID: MS6021405.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 18:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208389 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054
1330-20-7	Xylenes, Total	ND		1.2	0.074

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021405.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Feb-2018 18:07:30 ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250mL
Operator ID: srs Instrument ID: ATMS6

Method: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\TO15_ATMS6.m
Limit Group: MSA - TO15 - ICAL
Last Update: 16-Feb-2018 14:27:04 Calib Date: 14-Feb-2018 16:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021403.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: scottrs Date: 15-Feb-2018 10:08:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	13.283	13.283	0.000	96	55883	4.00	4.00	
* 2 1,4-Difluorobenzene	114	15.418	15.418	0.000	94	216136	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	22.153	22.147	0.006	86	190977	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	14.482	14.482	0.000	39	69072	4.00	4.00	
$ 5 Toluene-d8 (Surr)	100	18.874	18.868	0.006	99	141635	4.00	3.95	
$ 6 4-Bromofluorobenzene (Surr	95	24.708	24.708	0.000	92	106893	4.00	3.47	
$ 7 BFB									
11 Propene	41	4.614	4.620	-0.006	88	514		0.0369	
74 Isobutanol TIC	43	8.398	7.474	0.924	55	2138		0.1530	
32 Acetone	43	8.398	8.404	-0.006	94	2138		0.0875	
100 Dicyclopentadiene TIC	66	14.488	14.512	-0.024	64	1704		0.0357	
A 170 C4-C10	1	15.339	(5.541-25.155)		0	769220		NC	
A 146 Total VOC as Hexane	1	17.158	(4.471-29.882)		0	1031309		12.3	E
A 145 Nonmethane Organic Compoun	1	17.158	(4.471-29.882)		0	1031309		12.3	E
A 141 GRO	1	17.264	(4.720-29.821)		0	1014394		NC	
A 142 C4-C12	1	17.675	(5.541-29.821)		0	868522		NC	
A 160 C6-C10	1	18.046	(10.956-25.155)		0	301407		NC	
A 148 C6-C12	1	20.382	(10.956-29.821)		0	394212		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
E - Exceeded Maximum Amount
7 - Failed Limit of Detection

Reagents:

VAMSIS20_00111 Amount Added: 50.00 Units: mL Run Reagent

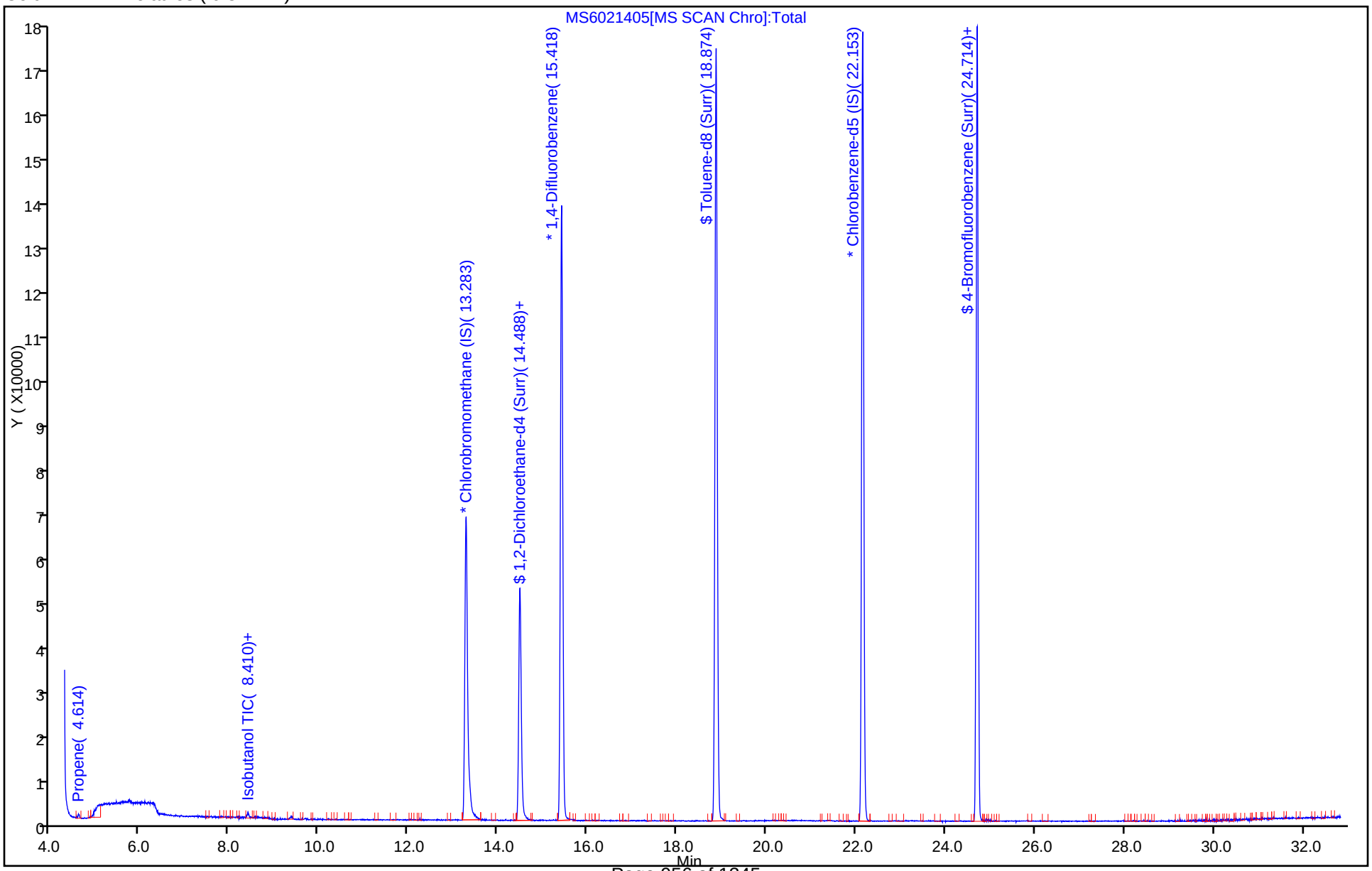
Report Date: 16-Feb-2018 14:28:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021405.D

Injection Date:	14-Feb-2018 18:07:30	Instrument ID:	ATMS6	Operator ID:	srs
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS6	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



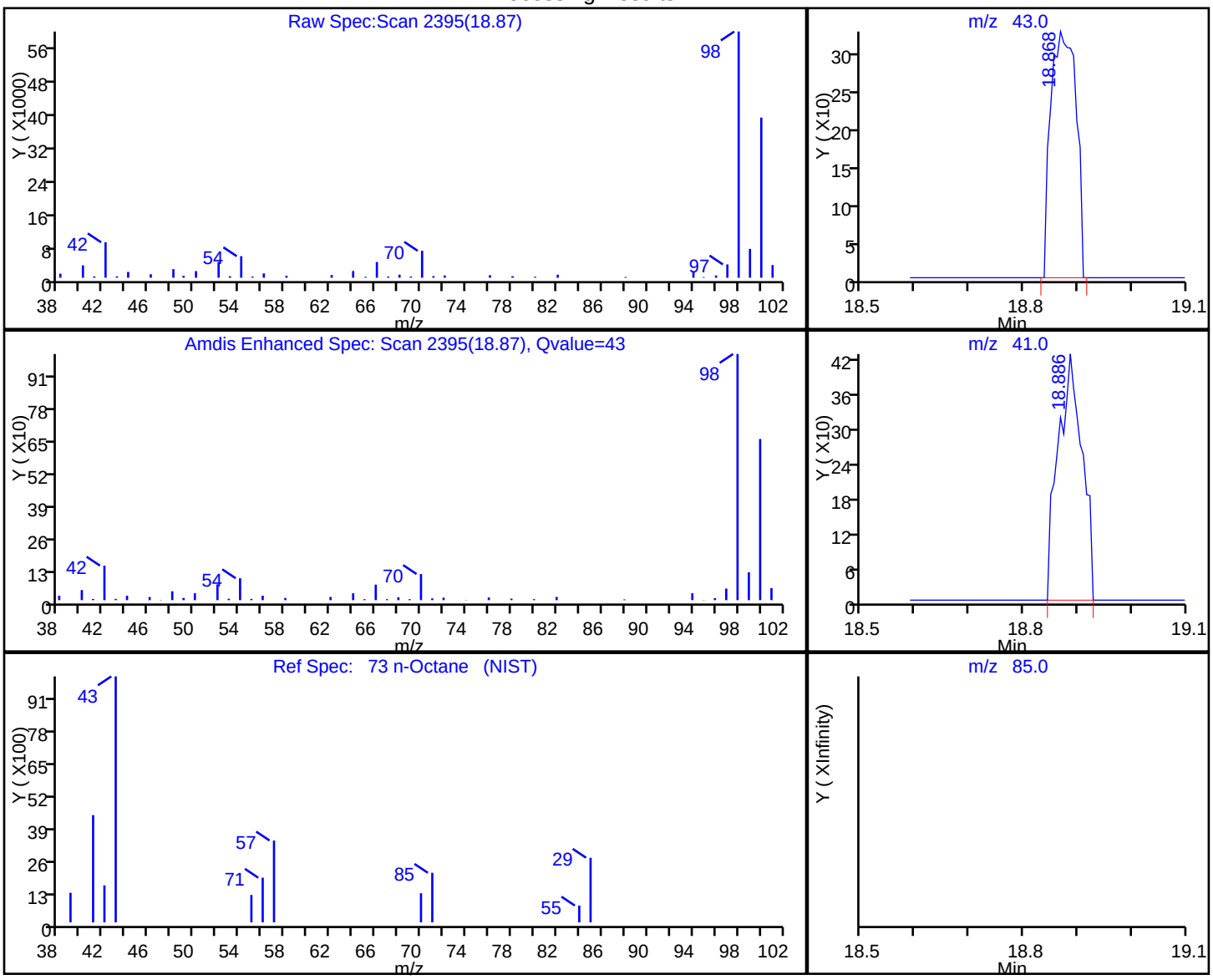
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021405.D
Injection Date: 14-Feb-2018 18:07:30 Instrument ID: ATMS6
Lims ID: MB
Client ID:
Operator ID: srs ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS6 Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

73 n-Octane, CAS: 111-65-9

Processing Results



RT	Mass	Response	Amount
18.87	43.00	1060	0.027978
18.89	41.00	1299	
18.84	85.00	0	

Reviewer: scottrs, 15-Feb-2018 10:08:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Lab File ID: MS9021705.D Lab Sample ID: MB 320-208885/5

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

Instrument ID: ATMS9 Date Analyzed: 02/17/2018 14:09

GC Column: RTX-Volatiles ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
8234	320-36037-1	MS9021707.D	02/17/2018 16:01

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208885/5

Matrix: Air Lab File ID: MS9021705.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/17/2018 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208885 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208885/5

Matrix: Air Lab File ID: MS9021705.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/17/2018 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208885 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-208885/5

Matrix: Air Lab File ID: MS9021705.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 250(mL) Date Analyzed: 02/17/2018 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208885 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054
1330-20-7	Xylenes, Total	ND		1.2	0.074

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Feb-2018 14:09:30 ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 250
Operator ID: RG Instrument ID: ATMS9

Method: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\TO15_ATMS9N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 19-Feb-2018 13:50:13 Calib Date: 09-Feb-2018 00:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20180208-53859.b\MS9020812.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: phanthasena Date: 19-Feb-2018 13:50:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.318	12.312	0.006	96	68352	4.00	4.00	
* 2 1,4-Difluorobenzene	114	14.405	14.405	0.000	100	280046	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.330	20.330	0.000	99	201642	4.00	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.486	13.486	0.000	97	107474	4.00	3.92	
$ 5 Toluene-d8 (Surr)	100	17.568	17.568	0.000	98	148315	4.00	4.17	
$ 6 4-Bromofluorobenzene (Surr	174	22.259	22.259	0.000	99	103921	4.00	3.92	
$ 7 BFB									
14 Propene	41	4.270	4.245	0.025	51	744		0.0479	
31 Acetone	43	7.707	7.634	0.073	95	1942		0.0680	
47 Methylene Chloride	49	8.887	8.899	-0.012	48	999		0.0416	
48 Carbon disulfide	76	8.948	8.942	0.006	97	3010		0.0722	
140 Dimethyl disulfide TIC	94	14.411	14.398	0.006	100	18430		0.2632	
131 Epichlorohydrin TIC	57	22.259	22.242	0.006	99	4226		0.0604	
134 Methyl mercaptan TIC	47	22.259	22.242	0.006	99	1726		0.0247	
136 2-Chloroethyl vinyl ether	63	22.253	22.248	-0.006	99	4818		0	
114 tert-Butylbenzene	91	23.269	23.281	-0.012	1	811		0.0102	
115 1,2,4-Trimethylbenzene	120	23.317	23.323	-0.006	89	485		0.009003	
121 4-Isopropyltoluene	119	23.749	23.761	-0.012	93	941		0.006779	
117 1,3-Dichlorobenzene	146	23.865	23.859	0.006	87	760		0.0105	
120 1,4-Dichlorobenzene	146	23.987	23.987	0.000	83	899		0.0123	
135 Isobutanol TIC	43	24.145	24.133	0.000	86	598		0.008541	
124 Undecane	57	24.145	24.151	-0.006	84	641		0.006906	
123 n-Butylbenzene	92	24.297	24.297	0.000	93	596		0.007851	
122 1,2-Dichlorobenzene	146	24.473	24.473	0.000	86	781		0.0112	
125 Dodecane	57	25.532	25.532	0.000	95	7493		0.1715	
119 n-Tetradecane	43	25.532	25.532	0.000	96	5981		NC	
126 1,2,4-Trichlorobenzene	180	26.700	26.700	0.000	90	1693		0.0557	
127 Naphthalene	128	27.077	27.071	0.006	97	6452		0.0349	
129 1,2,3-Trichlorobenzene	180	27.473	27.460	0.012	92	1851		0.0270	
A 144 C6 Range	1	10.013	(9.913-10.113)		0	1480		0.0122	
A 145 C3-C10	1	13.346	(4.185-22.508)		0	758882		NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
A 173 C5-C12	1	13.693	(5.898-21.488)		0	541998		NC	
A 161 C4-C10	1	13.723	(4.802-22.644)		0	712488		NC	
A 146 GRO	1	14.824	(4.085-25.564)		0	1293862		NC	
A 148 C4-C12	1	15.183	(4.802-25.564)		0	1234404		NC	
A 162 C6-C10	1	16.498	(10.351-22.644)		0	351348		NC	
A 150 Nonmethane Organic Compoun	1	16.383	(4.185-28.580)		0	2410264		19.9	
A 154 Total VOC as Hexane	1	16.383	(4.185-28.580)		0	2410264		19.9	
A 151 Total VOCs as Tetrachloroe	1	16.383	(4.185-28.580)		0	2410264		0	
A 152 TVOC as Toluene	1	16.482	(4.473-28.490)		0	485308		0	
A 147 Toluene Range	1	17.727	(17.641-17.812)		0	3511		NC	
A 153 C6-C12	1	17.958	(10.351-25.564)		0	813294		NC	
A 149 PCE Range	1	19.020	(18.950-19.090)		0	1307		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VAMSIS20_00109 Amount Added: 50.00 Units: mL Run Reagent

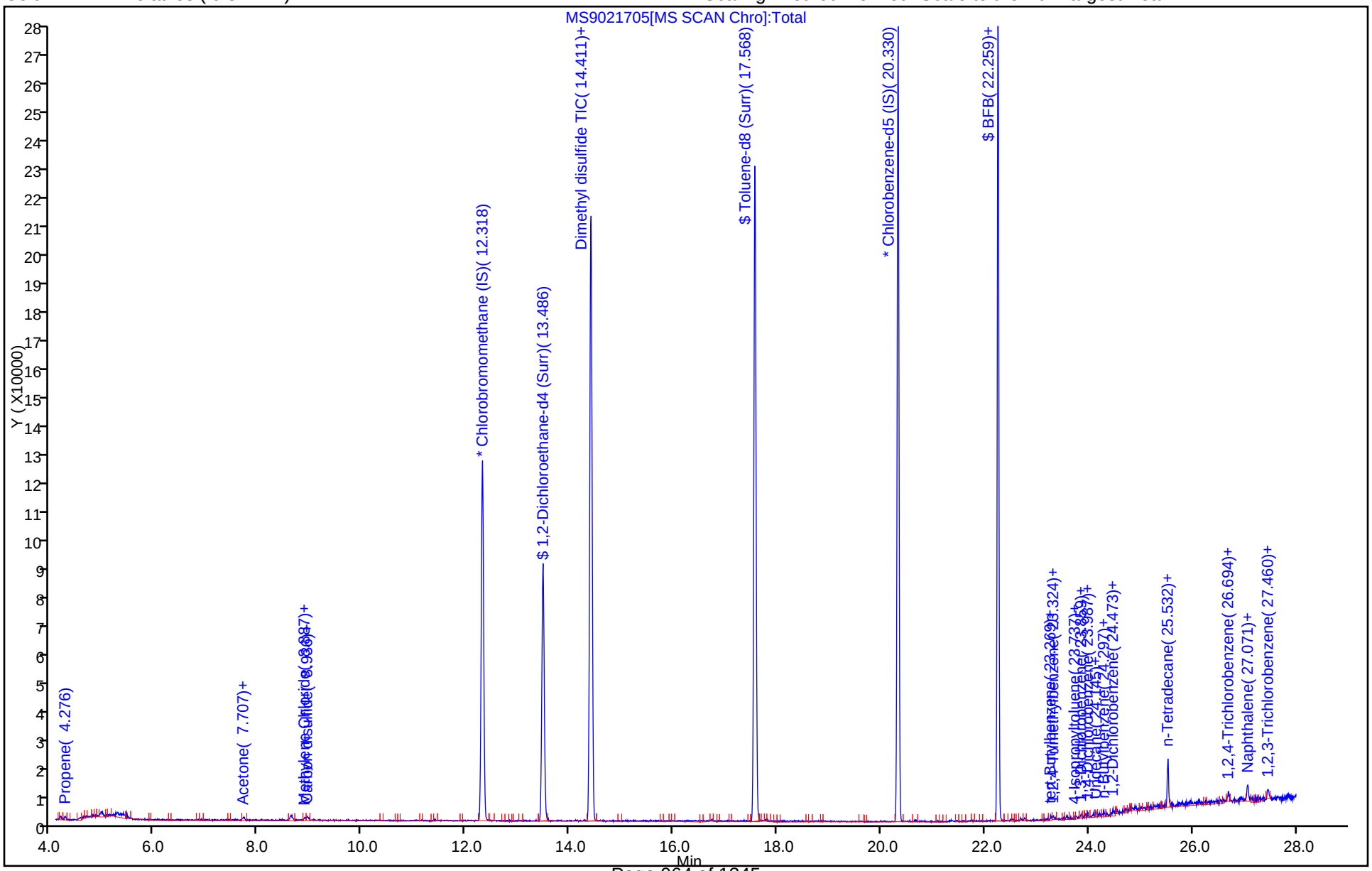
Report Date: 19-Feb-2018 13:50:15 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D

Injection Date:	17-Feb-2018 14:09:30	Instrument ID:	ATMS9	Operator ID:	RG
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



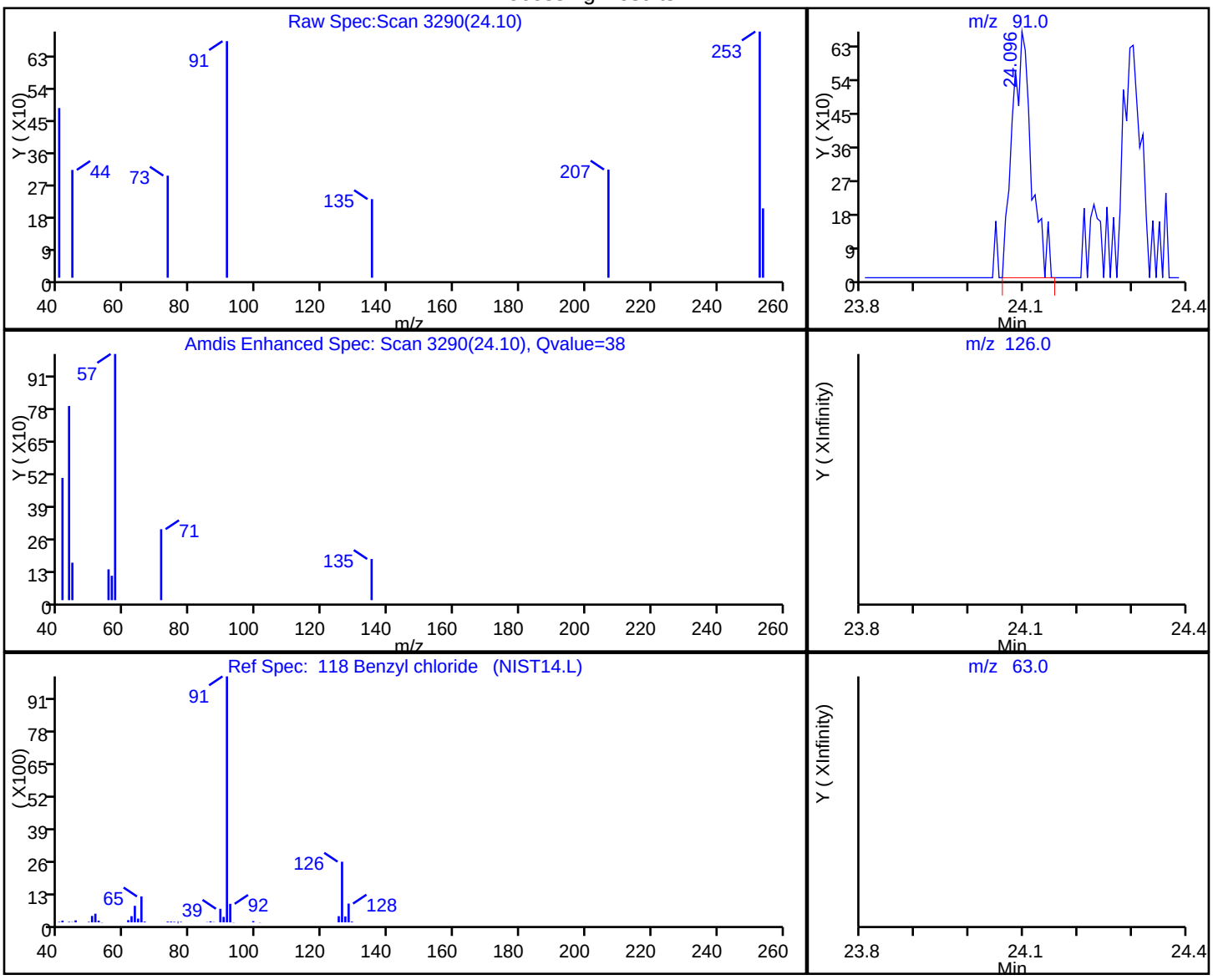
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

118 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
24.10	91.00	1636	0.011948
24.10	126.00	0	
24.10	63.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

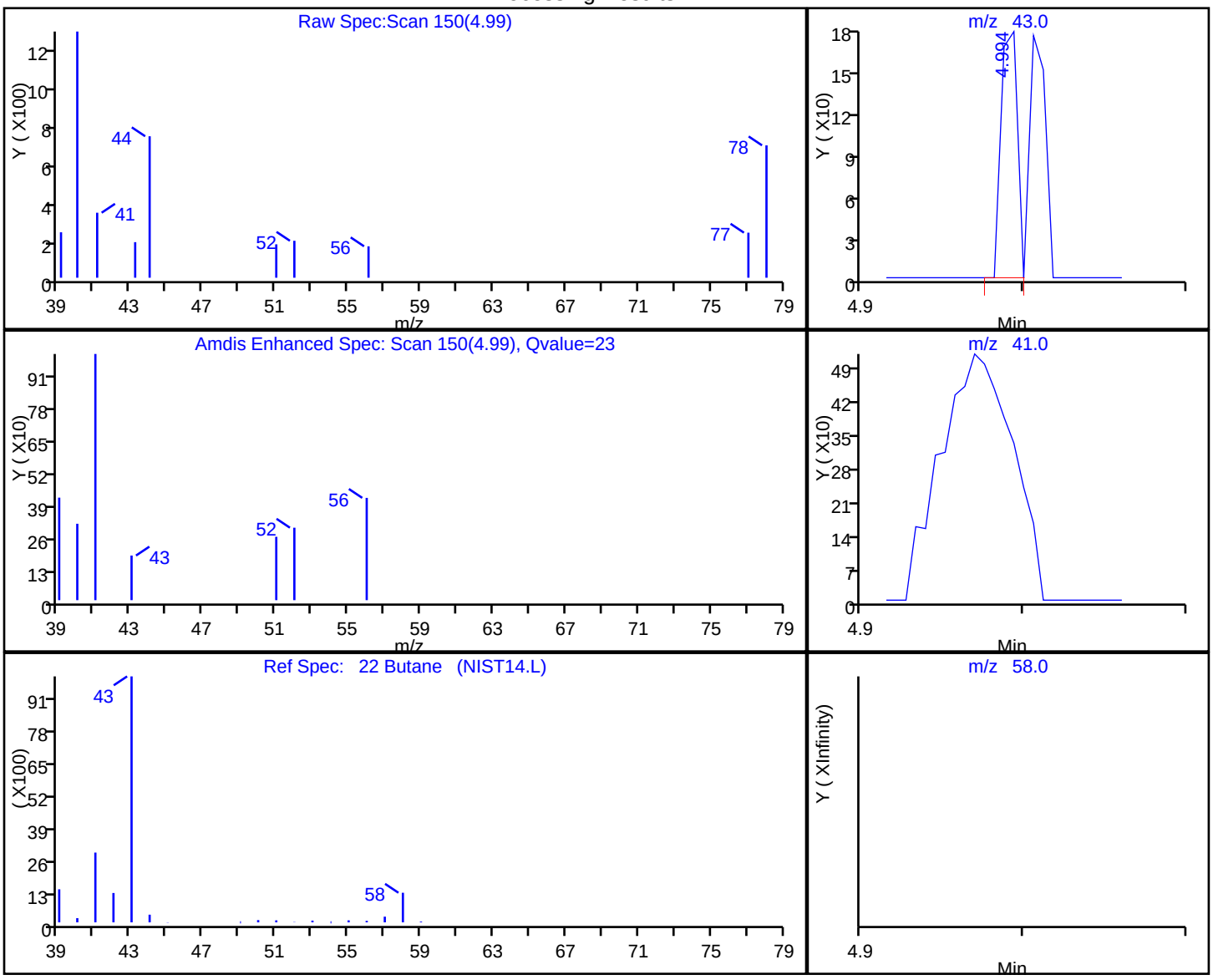
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

22 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
4.99	43.00	127	0.003731
4.99	41.00	0	
4.99	58.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

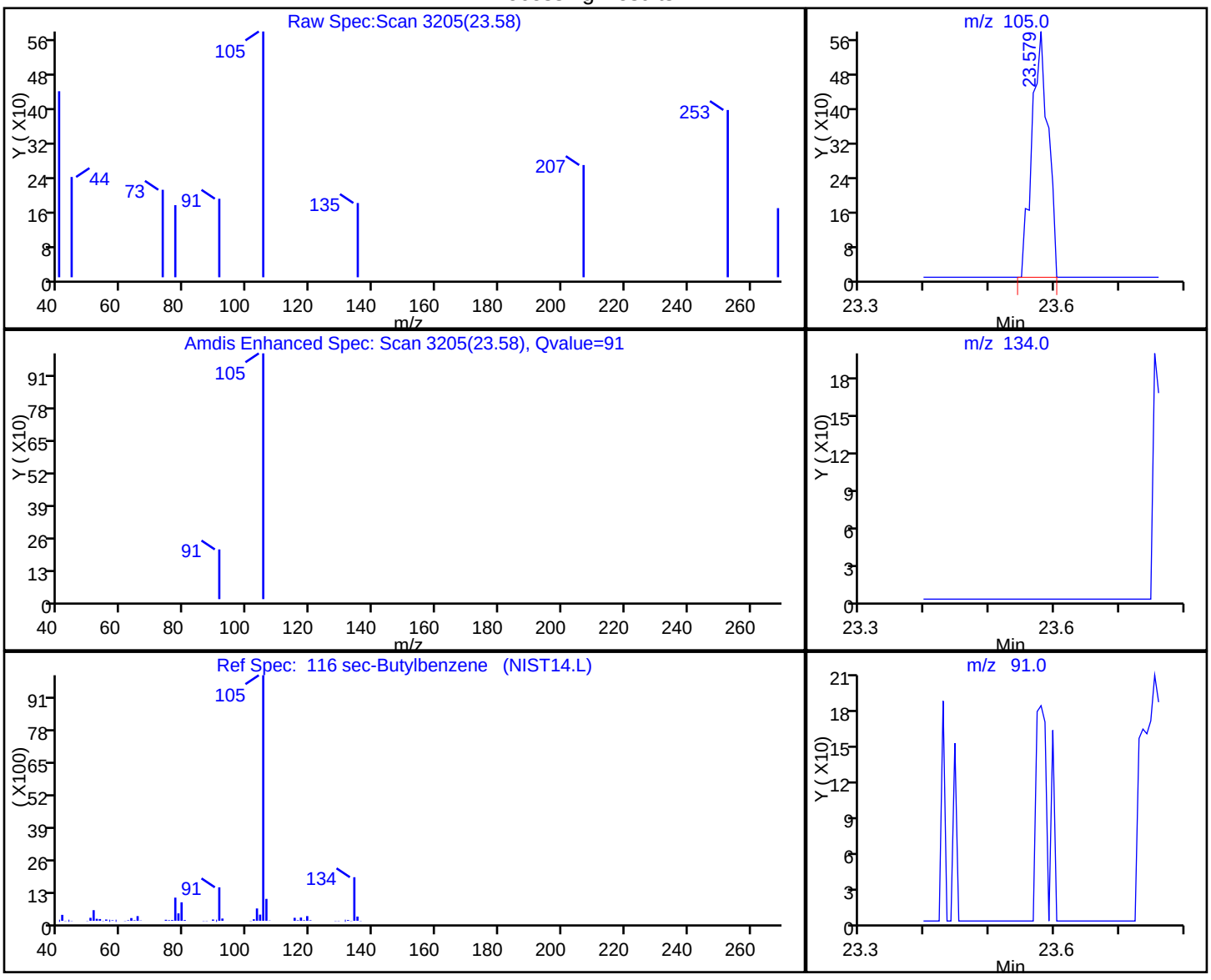
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

116 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
23.58	105.00	994	0.006211
23.58	134.00	0	
23.58	91.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

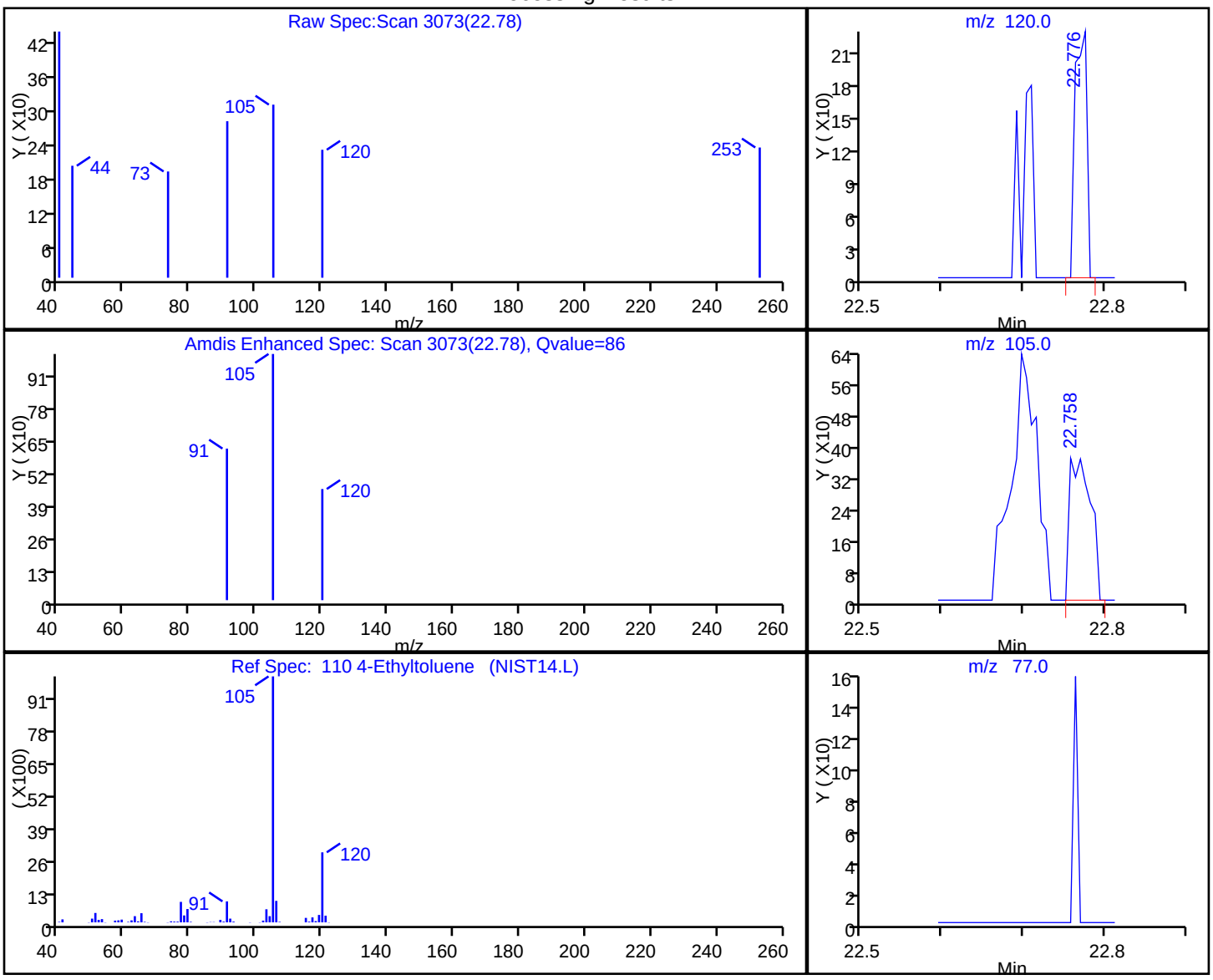
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

110 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
22.78	120.00	227	0.005788
22.76	105.00	669	
22.70	77.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

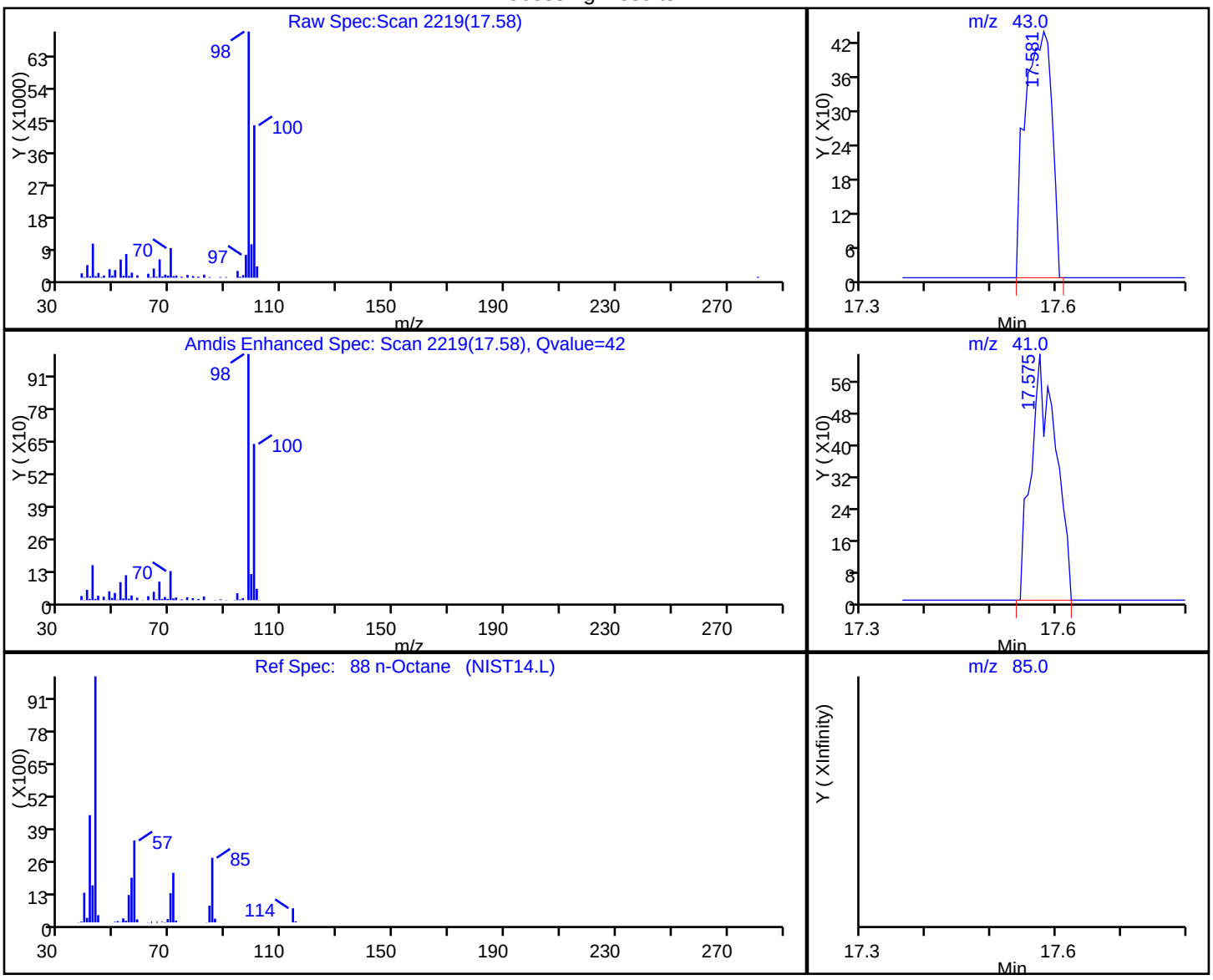
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

88 n-Octane, CAS: 111-65-9

Processing Results



RT	Mass	Response	Amount
17.58	43.00	1241	0.021400
17.57	41.00	1658	
17.58	85.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

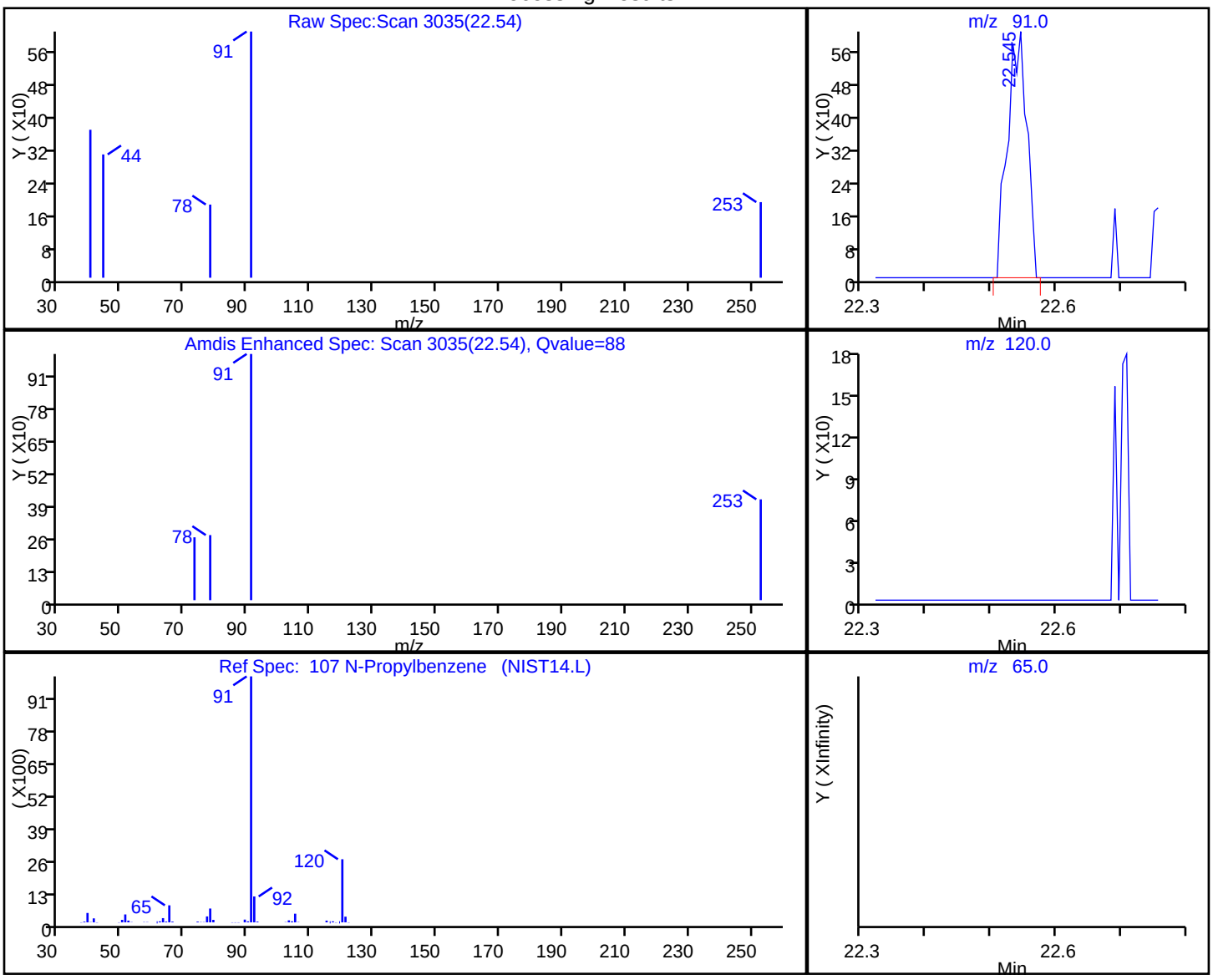
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

107 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
22.54	91.00	1265	0.007910
22.54	120.00	0	
22.54	65.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

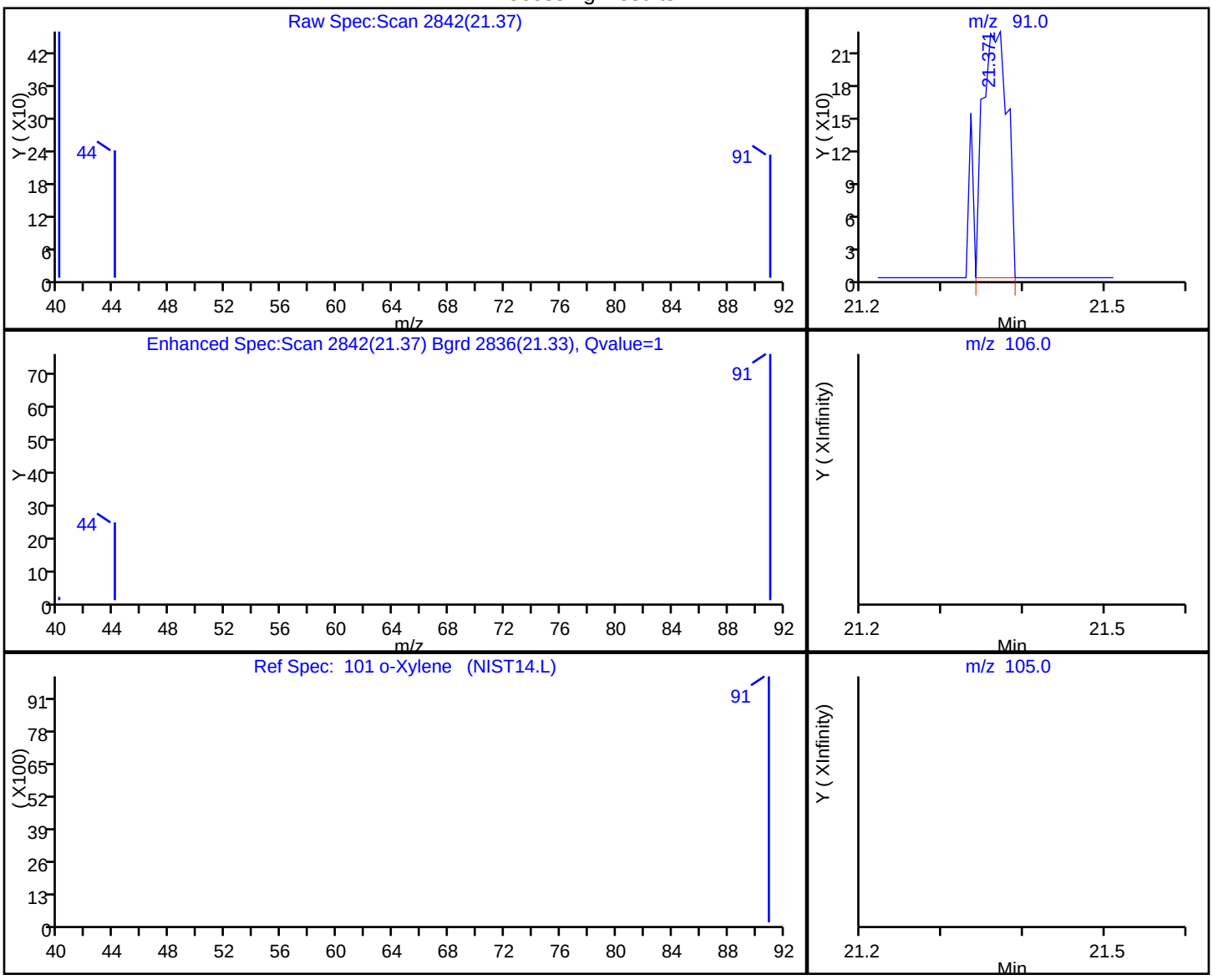
User Disabled Compound Report

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021705.D
Injection Date: 17-Feb-2018 14:09:30 Instrument ID: ATMS9
Lims ID: MB
Client ID:
Operator ID: RG ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS9N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector MS SCAN

101 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
21.37	91.00	481	0.005234
21.36	106.00	0	
21.36	105.00	0	
21.36	78.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:50:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab File ID: 18020501.D BFB Injection Date: 02/05/2018

Instrument ID: ATMS2 BFB Injection Time: 14:13

Analysis Batch No.: 206971

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.6	
75	30.0 - 66.0% of mass 95	48.0	
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 - 120.0% of mass 95	83.6	
175	4.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	93.0 - 101.0% of mass 174	81.4	(97.3) 1
177	5.0 - 9.0% of mass 176	5.3	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 320-206971/17	18020517.D	02/06/2018	02:26
	IC 320-206971/18	18020518.D	02/06/2018	03:10
	IC 320-206971/19	18020519.D	02/06/2018	03:54
	IC 320-206971/20	18020520.D	02/06/2018	04:39
	IC 320-206971/21	18020521.D	02/06/2018	05:28
	IC 320-206971/22	18020522.D	02/06/2018	06:11
	IC 320-206971/23	18020523.D	02/06/2018	06:56
	IC 320-206971/24	18020524.D	02/06/2018	07:40
	IC 320-206971/25	18020525.D	02/06/2018	08:26
	IC 320-206971/26	18020526.D	02/06/2018	09:14

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab File ID: 18020601.D BFB Injection Date: 02/06/2018

Instrument ID: ATMS2 BFB Injection Time: 14:38

Analysis Batch No.: 207197

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.9	
75	30.0 - 66.0% of mass 95	48.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	83.0	
175	4.0 - 9.0 % of mass 174	6.1	(7.3) 1
176	93.0 - 101.0% of mass 174	80.1	(96.5) 1
177	5.0 - 9.0% of mass 176	5.3	(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 320-207197/3	18020603.D	02/06/2018	16:08
	IC 320-207197/4	18020604.D	02/06/2018	16:53
	IC 320-207197/5	18020605.D	02/06/2018	17:38
	IC 320-207197/6	18020606.D	02/06/2018	18:24
	IC 320-207197/7	18020607.D	02/06/2018	19:12
	IC 320-207197/8	18020608.D	02/06/2018	19:57
	ICIS 320-207197/9	18020609.D	02/06/2018	20:42
	IC 320-207197/10	18020610.D	02/06/2018	21:27
	IC 320-207197/11	18020611.D	02/06/2018	22:13
	IC 320-207197/12	18020612.D	02/06/2018	23:01

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab File ID: 18021401.D BFB Injection Date: 02/14/2018

Instrument ID: ATMS2 BFB Injection Time: 10:54

Analysis Batch No.: 208383

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.1	
75	30.0 - 66.0% of mass 95	47.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	85.4	
175	4.0 - 9.0 % of mass 174	6.2	(7.3) 1
176	93.0 - 101.0% of mass 174	83.2	(97.4) 1
177	5.0 - 9.0% of mass 176	5.4	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 320-208383/2	18021402.D	02/14/2018	11:37
	MB 320-208383/13	18021414.D	02/14/2018	21:22
34001546	320-35602-1	18021426.D	02/15/2018	07:36

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Lab File ID: MS6021401.D BFB Injection Date: 02/14/2018

Instrument ID: ATMS6 BFB Injection Time: 13:59

Analysis Batch No.: 208389

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.9	
75	30.0 - 66.0% of mass 95	48.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	92.0	
175	4.0 - 9.0 % of mass 174	7.0	(7.6) 1
176	93.0 - 101.0% of mass 174	89.4	(97.2) 1
177	5.0 - 9.0% of mass 176	5.9	(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
	ICIS 320-208389/2	MS6021402.D	02/14/2018	14:55
	IC 320-208389/3	MS6021403.D	02/14/2018	16:14
	MB 320-208389/5	MS6021405.D	02/14/2018	18:07
34002099	320-35976-1	MS6021408.D	02/14/2018	21:07

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Lab File ID: MS9020801.D BFB Injection Date: 02/08/2018

Instrument ID: ATMS9 BFB Injection Time: 14:33

Analysis Batch No.: 207617

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.7	
75	30.0 - 66.0% of mass 95	50.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.3	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	84.5	
175	4.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	93.0 - 101.0% of mass 174	81.5	(96.5) 1
177	5.0 - 9.0% of mass 176	5.3	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 320-207617/3	MS9020803.D	02/08/2018	16:17
	IC 320-207617/4	MS9020804.D	02/08/2018	17:10
	IC 320-207617/5	MS9020805.D	02/08/2018	18:02
	IC 320-207617/6	MS9020806.D	02/08/2018	18:53
	IC 320-207617/7	MS9020807.D	02/08/2018	19:47
	IC 320-207617/8	MS9020808.D	02/08/2018	20:38
	ICIS 320-207617/9	MS9020809.D	02/08/2018	21:29
	IC 320-207617/10	MS9020810.D	02/08/2018	22:20
	IC 320-207617/11	MS9020811.D	02/08/2018	23:11
	IC 320-207617/12	MS9020812.D	02/09/2018	00:05

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Lab File ID: MS9021701.D BFB Injection Date: 02/17/2018

Instrument ID: ATMS9 BFB Injection Time: 10:25

Analysis Batch No.: 208885

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	21.8	
75	30.0 - 66.0% of mass 95	51.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	79.2	
175	4.0 - 9.0 % of mass 174	5.9	(7.5) 1
176	93.0 - 101.0% of mass 174	75.8	(95.7) 1
177	5.0 - 9.0% of mass 176	5.1	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 320-208885/2	MS9021702.D	02/17/2018	11:16
	MB 320-208885/5	MS9021705.D	02/17/2018	14:09
8234	320-36037-1	MS9021707.D	02/17/2018	16:01

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Sample No.: ICIS 320-198233/12 Date Analyzed: 12/05/2017 03:30

Instrument ID: ATMS12 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS12120418.D Heated Purge: (Y/N) N

Calibration ID: 36636

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		37706	12.40	168692	14.50	141906	20.41
UPPER LIMIT		52788	12.73	236169	14.83	198668	20.74
LOWER LIMIT		22624	12.07	101215	14.17	85144	20.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 320-206917/2		33235	12.40	158123	14.50	133628	20.41
CCVIS 320-207084/2		31433	12.40	147100	14.50	125584	20.41

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Sample No.: CCVIS 320-206917/2 Date Analyzed: 02/05/2018 11:23

Instrument ID: ATMS12 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS12020502.D Heated Purge: (Y/N) N

Calibration ID: 36636

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		33235	12.40	158123	14.50	133628	20.41
UPPER LIMIT		46529	12.73	221372	14.83	187079	20.74
LOWER LIMIT		19941	12.07	94874	14.17	80177	20.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-206917/7		32121	12.40	152756	14.50	126826	20.41
320-35506-1	34001451	33208	12.40	156374	14.50	131714	20.41
320-35506-2	34000793	32854	12.40	154931	14.50	130797	20.41
320-35506-3	8131	32354	12.40	152064	14.50	127505	20.41
320-35506-4	34002011	32367	12.40	152021	14.50	127626	20.41
320-35506-5	8360	32019	12.40	150908	14.49	126664	20.41

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Sample No.: CCVIS 320-207084/2 Date Analyzed: 02/06/2018 10:31

Instrument ID: ATMS12 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS12020602.D Heated Purge: (Y/N) N

Calibration ID: 36636

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		31433	12.40	147100	14.50	125584	20.41
UPPER LIMIT		44006	12.73	205940	14.83	175818	20.74
LOWER LIMIT		18860	12.07	88260	14.17	75350	20.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-207084/7		29259	12.40	137681	14.50	115035	20.41
320-35506-6	34001283	29202	12.40	136986	14.50	113942	20.41
320-35506-7	7791	29795	12.40	139827	14.50	116683	20.41
320-35506-8	34000447	29125	12.40	136539	14.49	114036	20.41
320-35506-9	34002159	28802	12.40	135278	14.50	112706	20.41
320-35506-10	8056	28597	12.41	134489	14.50	113825	20.41
320-35506-11	34001802	29394	12.40	137294	14.50	114030	20.41
320-35506-12	34000174	28882	12.40	135575	14.50	112472	20.41

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Sample No.: ICIS 320-207197/9 Date Analyzed: 02/06/2018 20:42

Instrument ID: ATMS2 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): 18020609.D Heated Purge: (Y/N) N

Calibration ID: 37837

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		54002	11.38	218455	13.47	223246	19.53
UPPER LIMIT		75603	11.71	305837	13.80	312544	19.86
LOWER LIMIT		32401	11.05	131073	13.14	133948	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 320-208383/2		64348	11.39	262817	13.47	246733	19.53

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Sample No.: CCVIS 320-208383/2 Date Analyzed: 02/14/2018 11:37

Instrument ID: ATMS2 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): 18021402.D Heated Purge: (Y/N) N

Calibration ID: 37837

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		64348	11.39	262817	13.47	246733	19.53
UPPER LIMIT		90087	11.72	367944	13.80	345426	19.86
LOWER LIMIT		38609	11.06	157690	13.14	148040	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-208383/13		57166	11.38	243285	13.47	222315	19.53
320-35602-1	34001546	55799	11.38	229830	13.47	209787	19.53

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Sample No.: ICIS 320-208855/2 Date Analyzed: 02/16/2018 18:01

Instrument ID: ATMS1 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS10216A02.D Heated Purge: (Y/N) N

Calibration ID: 37906

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		55655	11.61	240154	13.77	173971	20.46
UPPER LIMIT		77917	11.94	336216	14.10	243559	20.79
LOWER LIMIT		33393	11.28	144092	13.44	104383	20.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-208855/5		51274	11.61	223332	13.77	139326	20.46
320-35716-1	34001658	55942	11.61	213832	13.77	163855	20.46
320-35716-2	8431	53139	11.61	215932	13.77	156673	20.46
320-35716-4	34000465	53869	11.61	209597	13.77	155490	20.46
320-35716-5	34001223	56840	11.61	220118	13.77	159466	20.46
320-35716-6	34001122	54517	11.61	213487	13.78	158287	20.47

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Sample No.: ICIS 320-208997/2 Date Analyzed: 02/18/2018 11:49

Instrument ID: ATMS1 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS1021802.D Heated Purge: (Y/N) N

Calibration ID: 37907

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		56686	11.61	218061	13.77	184673	20.46
UPPER LIMIT		79360	11.94	305285	14.10	258542	20.79
LOWER LIMIT		34012	11.28	130837	13.44	110804	20.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-208997/5		57698	11.61	221984	13.77	178443	20.46
320-35716-7	34000081	53347	11.61	218932	13.77	176750	20.46
320-35716-8	34000881	55263	11.61	213688	13.77	173559	20.47
320-35716-9	8124	57749	11.61	225376	13.77	183580	20.46
320-35716-10	34000150	54626	11.61	208724	13.77	169187	20.47
320-35716-11	8303	69314	11.61	272613	13.77	220851	20.47
320-35716-12	8126	57086	11.61	219715	13.77	178323	20.46

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Sample No.: CCVIS 320-208998/2 Date Analyzed: 02/18/2018 11:43

Instrument ID: ATMS12 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS12021802.D Heated Purge: (Y/N) N

Calibration ID: 36636

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		24308	12.40	115431	14.49	98221	20.41
UPPER LIMIT		34031	12.73	161603	14.82	137509	20.74
LOWER LIMIT		14585	12.07	69259	14.16	58933	20.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-208998/5		23024	12.40	110760	14.50	93161	20.41
320-35833-1	34000355	23256	12.40	111336	14.49	93268	20.41
320-35833-2	34001439	23512	12.40	112463	14.49	94972	20.41
320-35833-3	34001477	23337	12.40	112133	14.49	95063	20.41
320-35833-5	34000084	25611	12.40	121533	14.49	103436	20.41
320-35833-7	34001132	26608	12.40	126864	14.49	107111	20.41
320-35833-8	34001217	26113	12.40	124186	14.49	105827	20.41
320-35833-9	34002114	25564	12.40	121970	14.49	104878	20.41
320-35833-10	34001124	25803	12.40	123534	14.49	104511	20.41
320-35833-11	34000342	25723	12.40	122308	14.49	103955	20.41
320-35833-12	34000016	25259	12.40	120687	14.49	101209	20.41

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 SIM

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

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Sample No.: ICIS 320-208389/2 Date Analyzed: 02/14/2018 14:55

Instrument ID: ATMS6 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS6021402.D Heated Purge: (Y/N) N

Calibration ID: 37872

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		56778	13.28	220474	15.42	207106	22.15
UPPER LIMIT		79489	13.61	308664	15.75	289948	22.48
LOWER LIMIT		34067	12.95	132284	15.09	124264	21.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-208389/5		55883	13.28	216136	15.42	190977	22.15
320-35976-1	34002099	51337	13.30	199432	15.43	176753	22.15

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Sample No.: ICIS 320-207617/9 Date Analyzed: 02/08/2018 21:29

Instrument ID: ATMS9 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS9020809.D Heated Purge: (Y/N) N

Calibration ID: 37846

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		73731	12.32	297284	14.42	201719	20.33
UPPER LIMIT		103223	12.65	416198	14.75	282407	20.66
LOWER LIMIT		44239	11.99	178370	14.09	121031	20.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 320-208885/2		68363	12.32	278148	14.42	201178	20.33

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Sample No.: CCVIS 320-208885/2 Date Analyzed: 02/17/2018 11:16

Instrument ID: ATMS9 GC Column: RTX-Volatiles ID: 0.32(mm)

Lab File ID (Standard): MS9021702.D Heated Purge: (Y/N) N

Calibration ID: 37846

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		68363	12.32	278148	14.42	201178	20.33
UPPER LIMIT		95708	12.65	389407	14.75	281649	20.66
LOWER LIMIT		41018	11.99	166889	14.09	120707	20.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 320-208885/5		68352	12.32	280046	14.41	201642	20.33
320-36037-1	8234	67455	12.32	278921	14.41	199692	20.33

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34001451 Lab Sample ID: 320-35506-1

Matrix: Air Lab File ID: MS12020515.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34001451 Lab Sample ID: 320-35506-1

Matrix: Air Lab File ID: MS12020515.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020515.D
Lims ID: 320-35506-A-1
Client ID: 34001451
Sample Type: Client
Inject. Date: 06-Feb-2018 01:01:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-1
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 06-Feb-2018 16:45:48 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: phanthasena Date: 06-Feb-2018 16:45:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	33208	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	156374	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	131714	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	92	81895	2.36	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	91852	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	-0.003	98	92542	1.94	
18 Acetone	43	7.762	7.717	0.045	95	16350	0.4333	

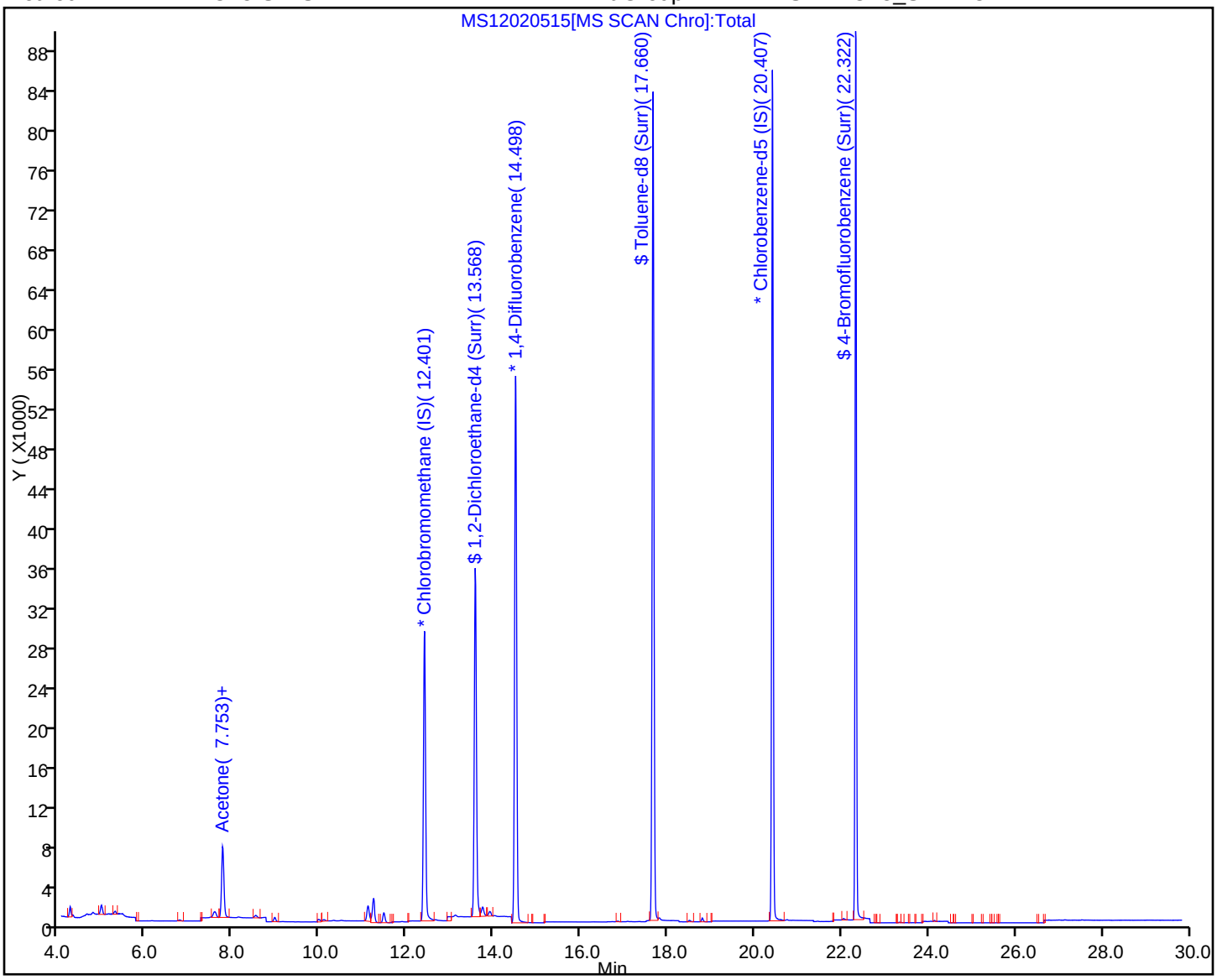
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 06-Feb-2018 16:45:48 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020515.D				
Injection Date:	06-Feb-2018 01:01:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-1	Lab Sample ID:	320-35506-1		
Client ID:	34001451				
Operator ID:	EJ	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



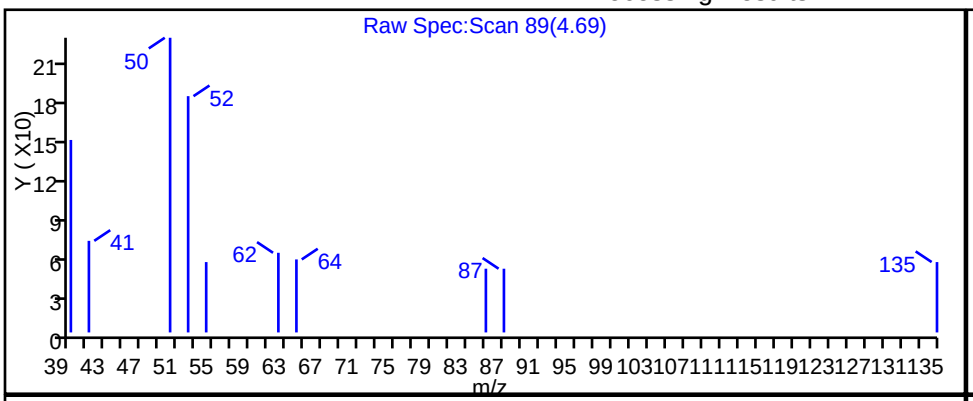
User Disabled Compound Report

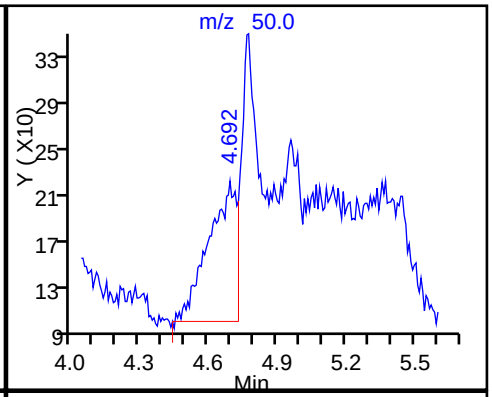
TestAmerica Sacramento

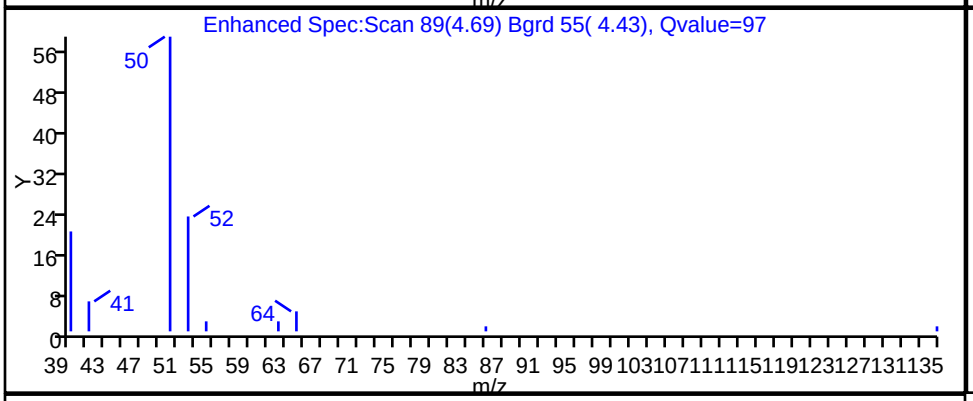
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020515.D		
Injection Date:	06-Feb-2018 01:01:30	Instrument ID:	ATMS12
Lims ID:	320-35506-A-1	Lab Sample ID:	320-35506-1
Client ID:	34001451		
Operator ID:	EJ	ALS Bottle#:	15 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

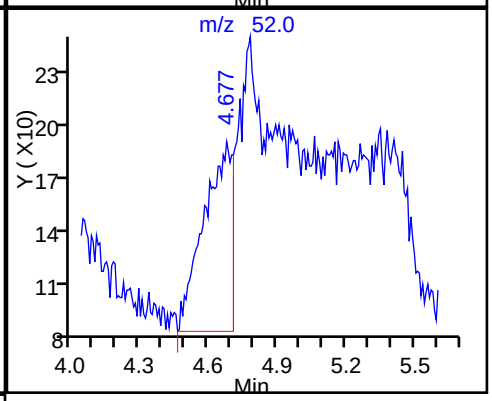
10 Chloromethane, CAS: 74-87-3

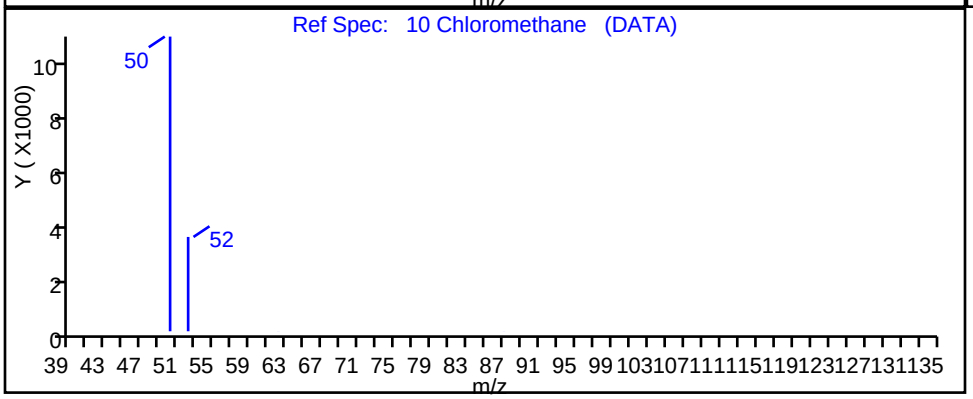
Processing Results











RT	Mass	Response	Amount
4.69	50.00	1032	0.044917
4.68	52.00	880	

Reviewer: phanthasena, 06-Feb-2018 16:45:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34000793 Lab Sample ID: 320-35506-2

Matrix: Air Lab File ID: MS12020517.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 02:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34000793 Lab Sample ID: 320-35506-2

Matrix: Air Lab File ID: MS12020517.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 02:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020517.D				
Lims ID:	320-35506-A-2				
Client ID:	34000793				
Sample Type:	Client				
Inject. Date:	06-Feb-2018 02:54:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-35506-A-2				
Operator ID:	EJ	Instrument ID:	ATMS12		
Method:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\TO15-SIMSIM.m				
Limit Group:	MSA - TO15_SIM - ICAL				
Last Update:	06-Feb-2018 18:40:06	Calib Date:	05-Dec-2017 05:26:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK018				
First Level Reviewer: phanthasena		Date:	06-Feb-2018 18:40:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	32854	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	154931	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.412	20.410	0.002	100	130797	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.567	13.564	-0.001	99	81499	2.37	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	91188	1.99	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	-0.003	98	92358	1.95	
8 Dichlorodifluoromethane	85	4.305	4.281	0.022	98	456	0.007470	
10 Chloromethane	50	4.767	4.767	0.030	98	345	0.0152	7M
18 Acetone	43	7.762	7.714	0.045	99	12883	0.3451	
19 1,1,2-Trichloro-1,2,2-trif	101	7.797	7.785	0.008	8	244	0.005845	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

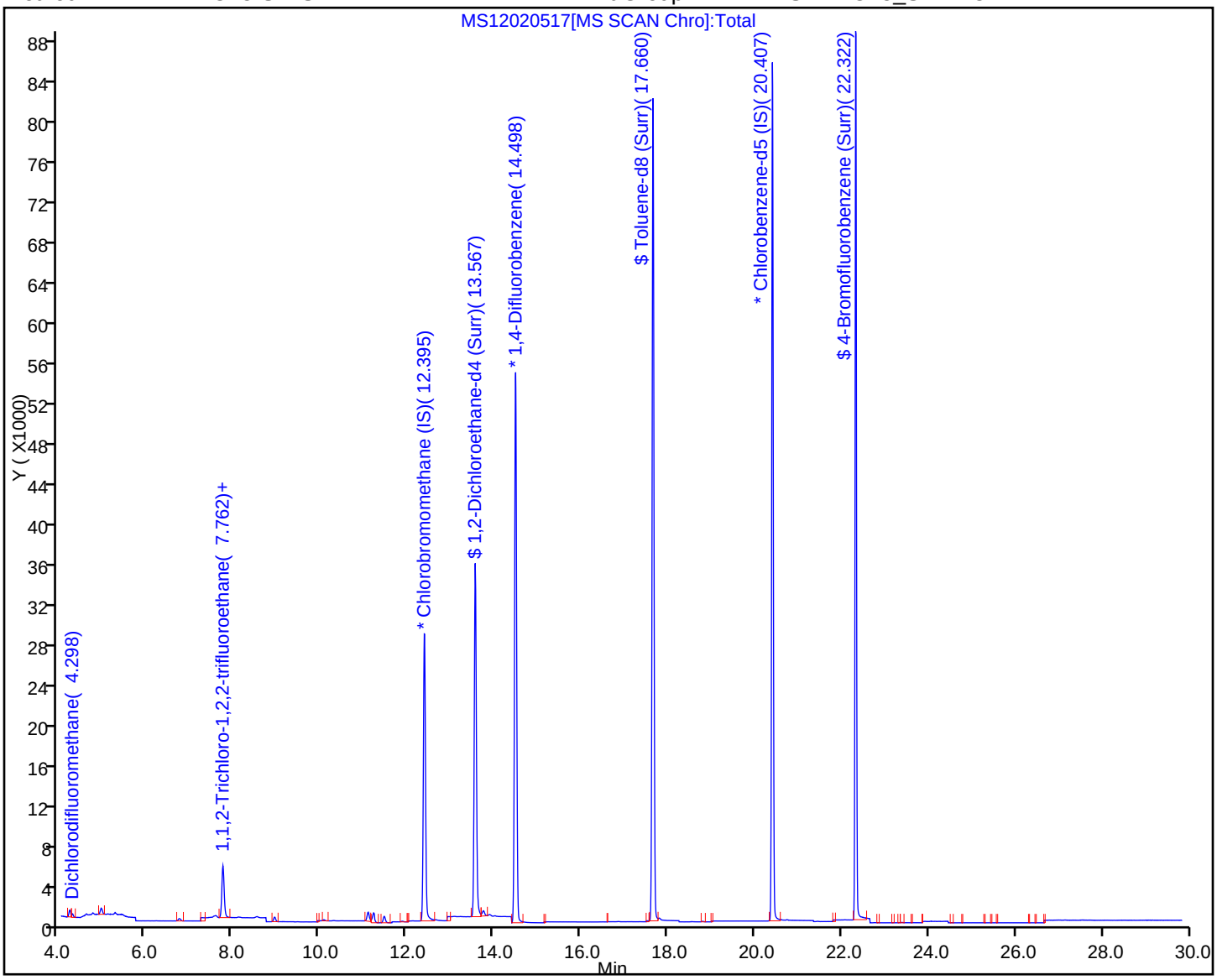
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 06-Feb-2018 18:40:06 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020517.D				
Injection Date:	06-Feb-2018 02:54:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-2	Lab Sample ID:	320-35506-2		
Client ID:	34000793				
Operator ID:	EJ	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



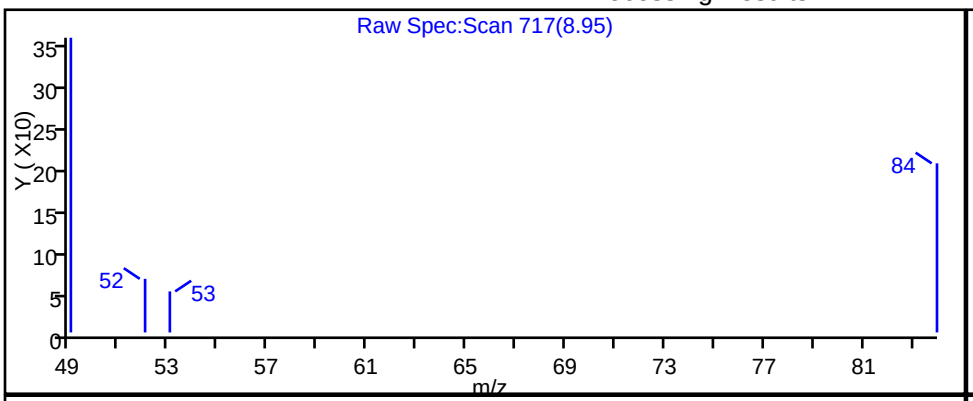
User Disabled Compound Report

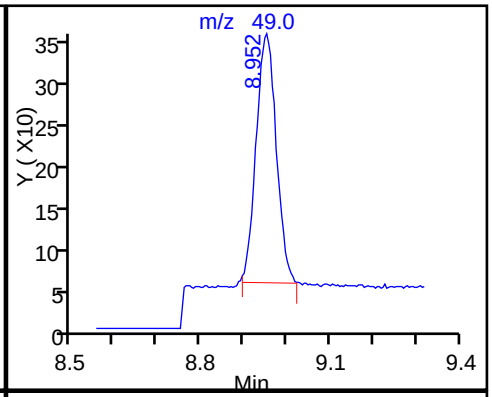
TestAmerica Sacramento

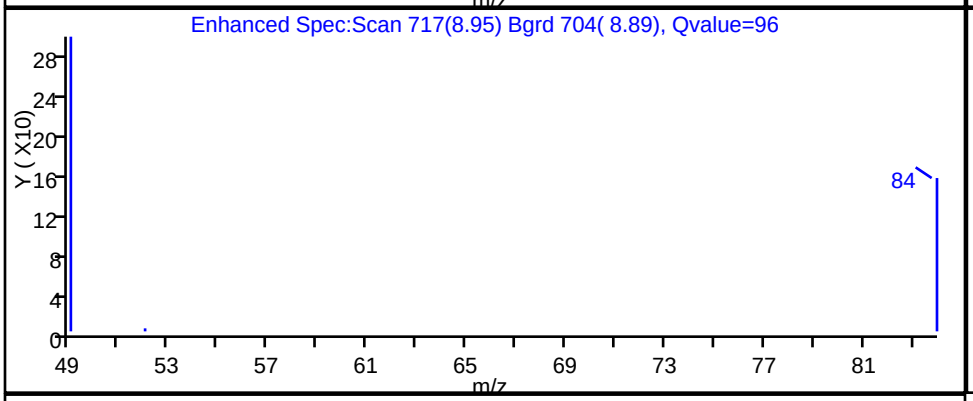
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Injection Date:	06-Feb-2018 02:54:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-2	Lab Sample ID:	320-35506-2		
Client ID:	34000793				
Operator ID:	EJ	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

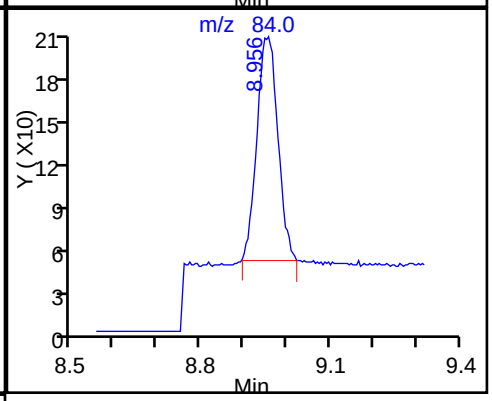
22 Methylene Chloride, CAS: 75-09-2

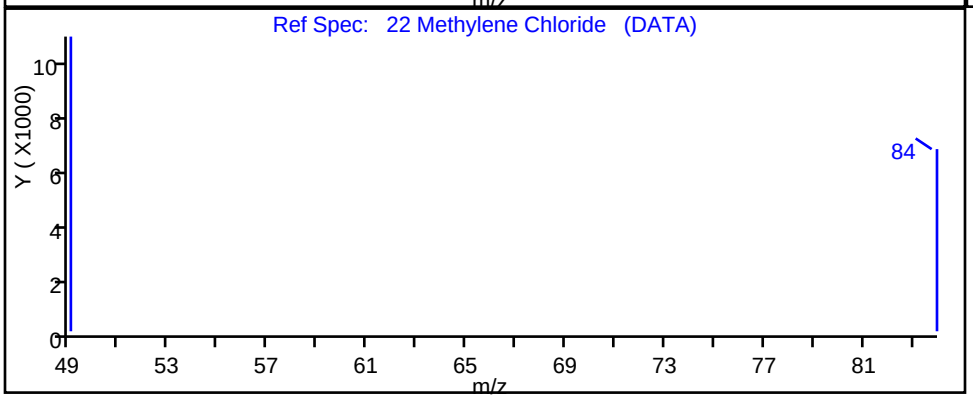
Processing Results











RT	Mass	Response	Amount
8.95	49.00	968	0.034466
8.96	84.00	525	

Reviewer: phanthasena, 06-Feb-2018 18:40:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

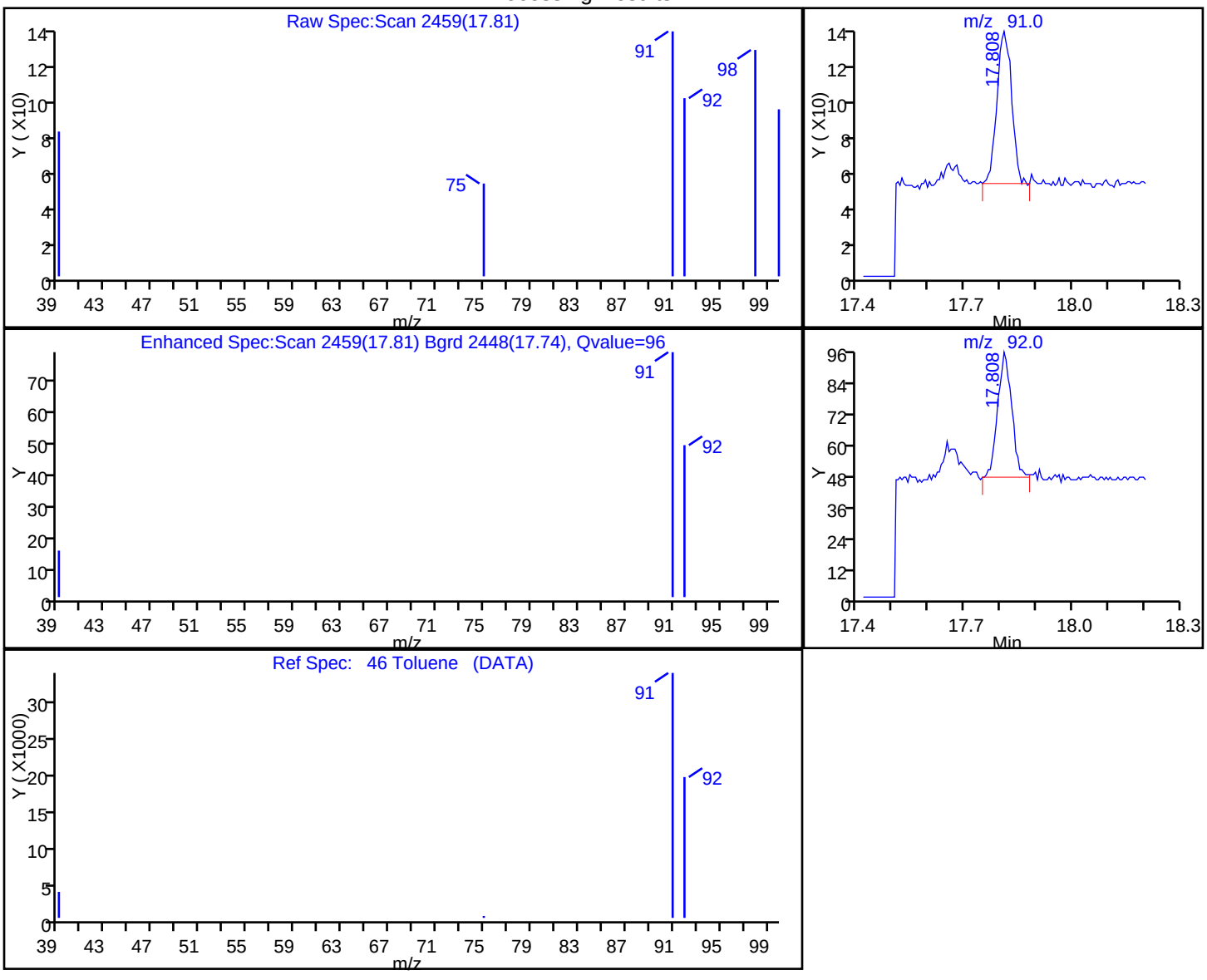
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020517.D				
Injection Date:	06-Feb-2018 02:54:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-2	Lab Sample ID:	320-35506-2		
Client ID:	34000793				
Operator ID:	EJ	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
17.81	91.00	234	0.003094
17.81	92.00	134	

Reviewer: phanthasena, 06-Feb-2018 18:40:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

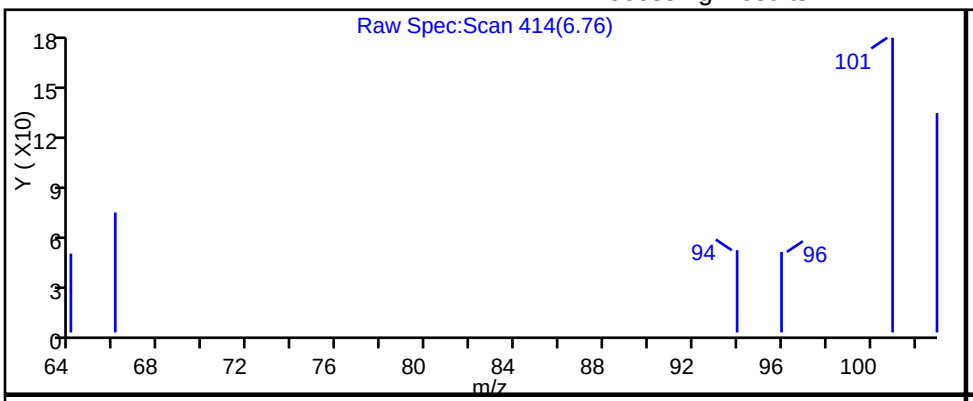
User Disabled Compound Report

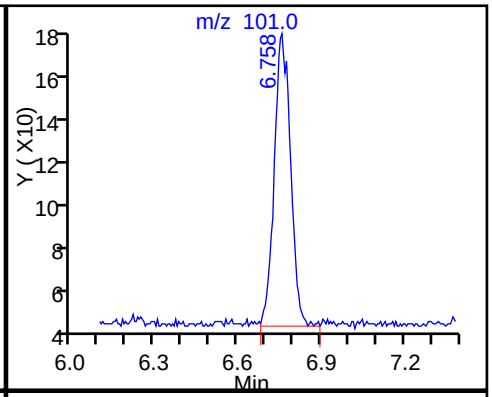
TestAmerica Sacramento

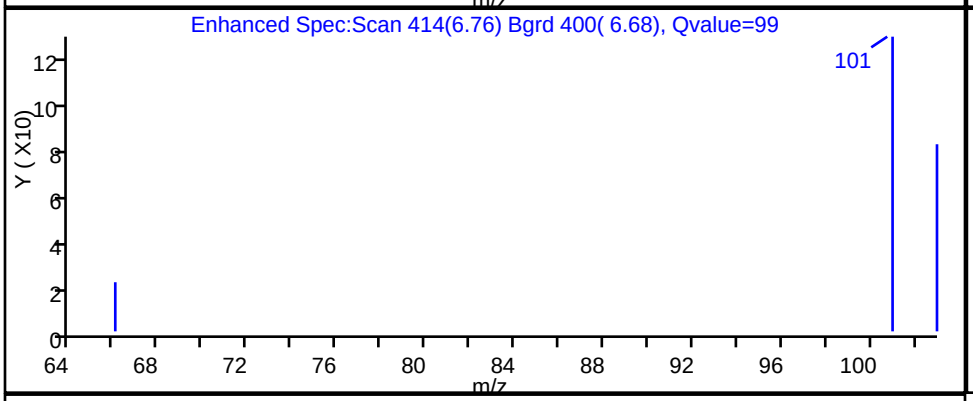
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020517.D				
Injection Date:	06-Feb-2018 02:54:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-2	Lab Sample ID:	320-35506-2		
Client ID:	34000793				
Operator ID:	EJ	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

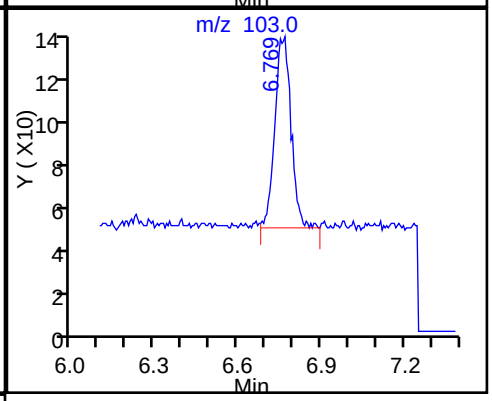
15 Trichlorofluoromethane, CAS: 75-69-4

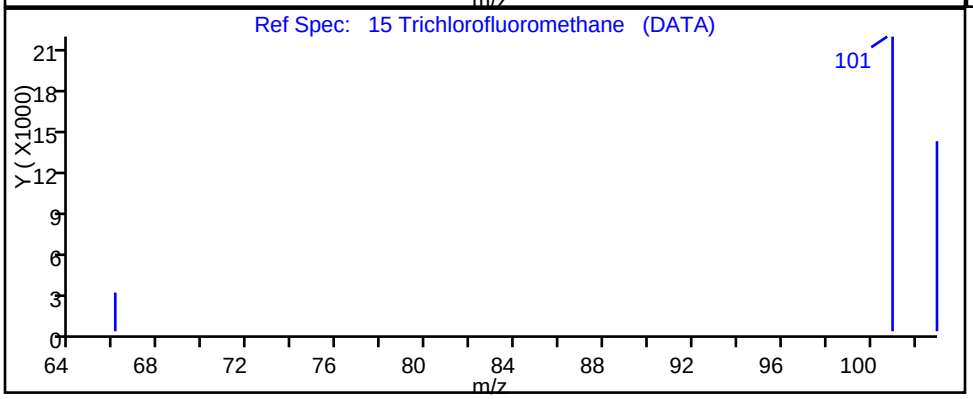
Processing Results











RT	Mass	Response	Amount
6.76	101.00	522	0.008047
6.77	103.00	347	

Reviewer: phanthasena, 06-Feb-2018 18:40:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 8131 Lab Sample ID: 320-35506-3

Matrix: Air Lab File ID: MS12020518.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 03:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 8131 Lab Sample ID: 320-35506-3

Matrix: Air Lab File ID: MS12020518.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 03:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020518.D
Lims ID: 320-35506-A-3
Client ID: 8131
Sample Type: Client
Inject. Date: 06-Feb-2018 03:54:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-3
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 06-Feb-2018 07:47:07 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 06-Feb-2018 08:05:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	98	32354	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	152064	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	127505	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	86	80097	2.37	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	89021	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	-0.003	98	89064	1.93	
8 Dichlorodifluoromethane	85	4.305	4.281	0.022	98	373	0.006204	
18 Acetone	43	7.771	7.714	0.054	100	7342	0.1997	

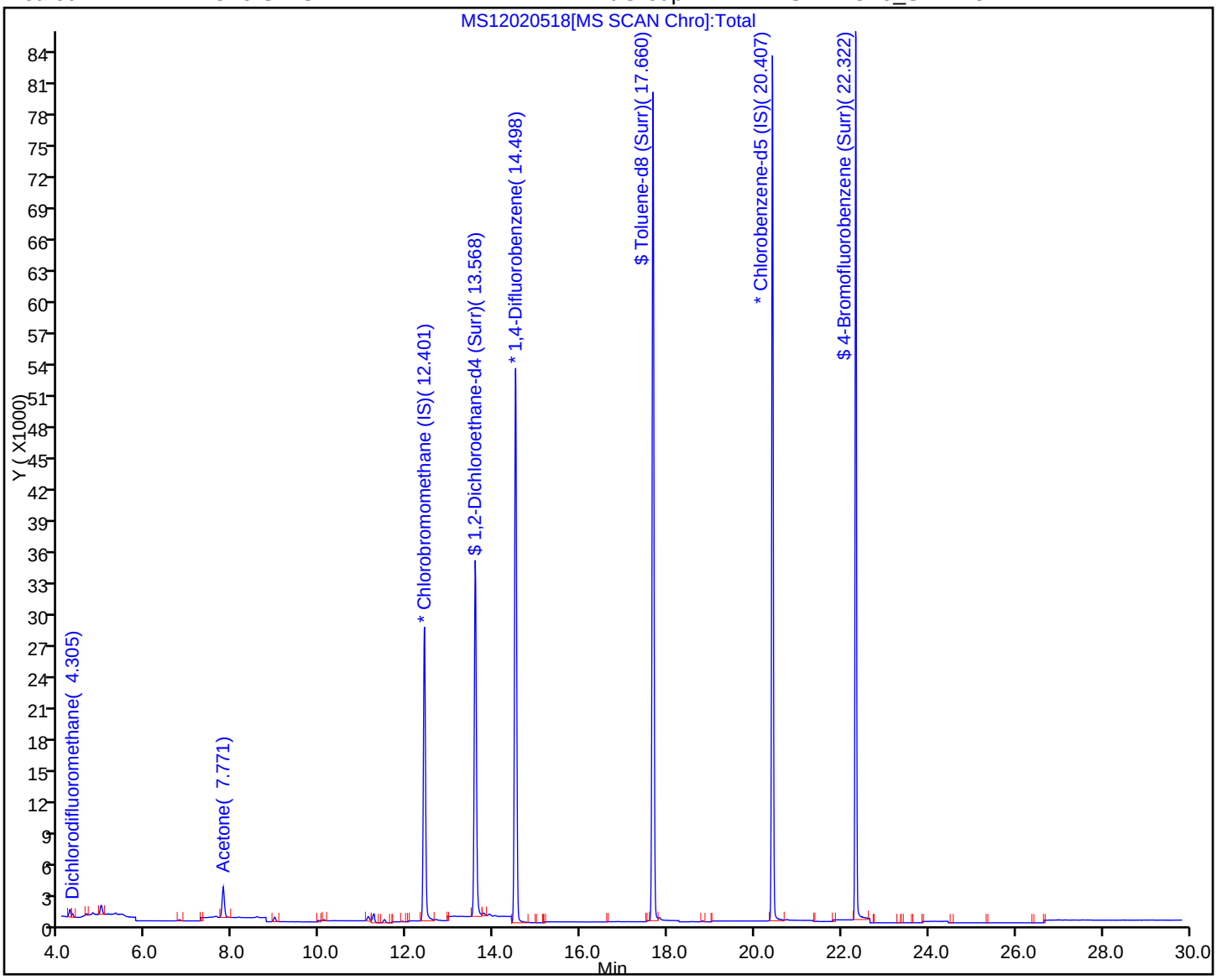
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 06-Feb-2018 08:05:08 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020518.D				
Injection Date:	06-Feb-2018 03:54:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-3	Lab Sample ID:	320-35506-3		
Client ID:	8131				
Operator ID:	EJ	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34002011 Lab Sample ID: 320-35506-4

Matrix: Air Lab File ID: MS12020519.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 04:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34002011 Lab Sample ID: 320-35506-4

Matrix: Air Lab File ID: MS12020519.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 04:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020519.D
Lims ID: 320-35506-A-4
Client ID: 34002011
Sample Type: Client
Inject. Date: 06-Feb-2018 04:55:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-4
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 06-Feb-2018 07:47:07 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 06-Feb-2018 08:05:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	32367	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	152021	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	127626	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	92	80390	2.38	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	89266	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	-0.003	98	90256	1.95	
10 Chloromethane	50	4.774	4.735	0.037	100	817	0.0365	
18 Acetone	43	7.753	7.714	0.036	98	33851	0.9205	

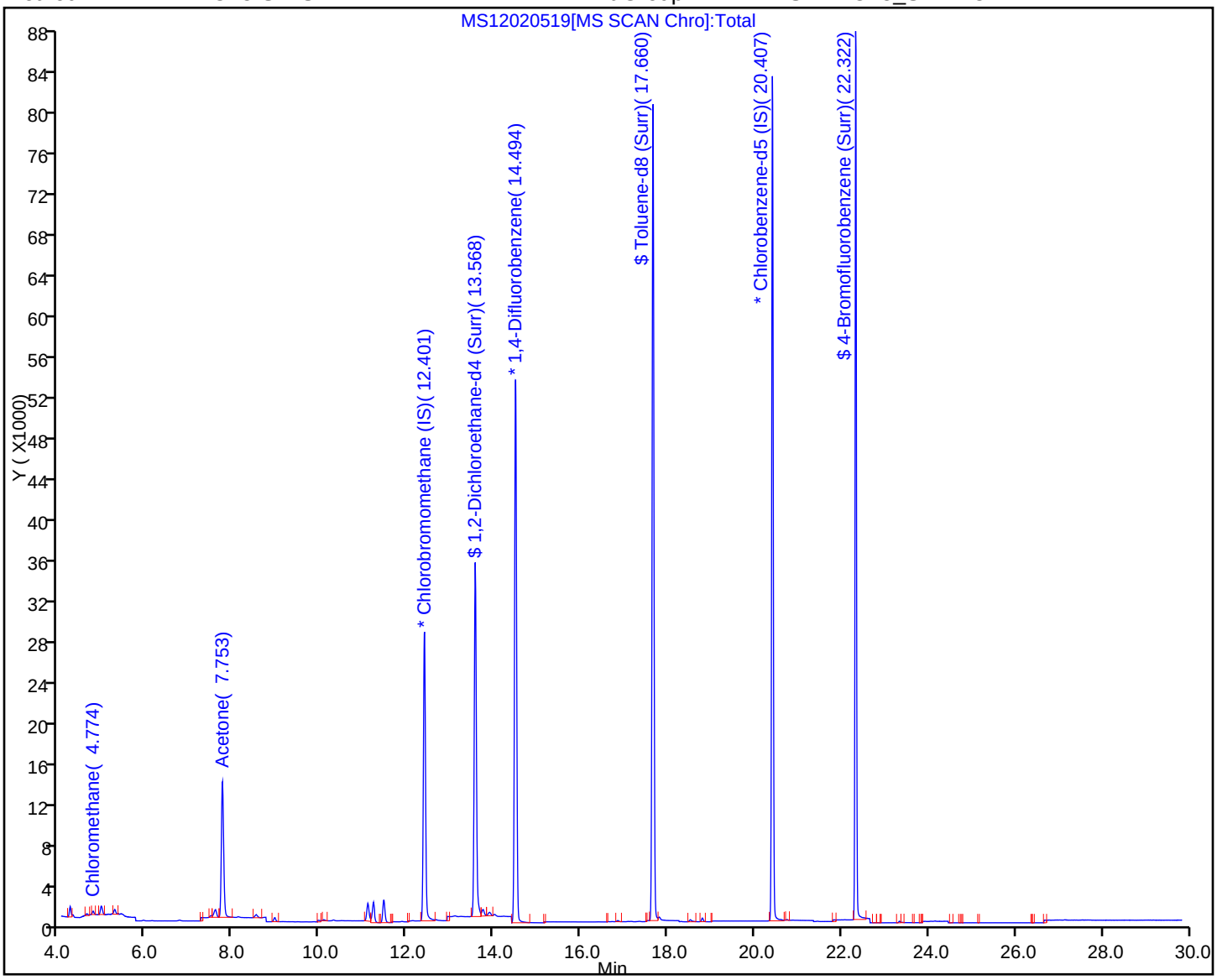
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 06-Feb-2018 08:05:22 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020519.D				
Injection Date:	06-Feb-2018 04:55:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-4	Lab Sample ID:	320-35506-4		
Client ID:	34002011				
Operator ID:	EJ	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 8360 Lab Sample ID: 320-35506-5

Matrix: Air Lab File ID: MS12020520.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 05:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 8360 Lab Sample ID: 320-35506-5

Matrix: Air Lab File ID: MS12020520.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 05:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 206917 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020520.D
Lims ID: 320-35506-A-5
Client ID: 8360
Sample Type: Client
Inject. Date: 06-Feb-2018 05:55:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-5
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 06-Feb-2018 08:05:37 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 06-Feb-2018 08:05:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.396	12.401	-0.005	97	32019	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.498	-0.004	100	150908	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	126664	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	86	78298	2.33	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	89019	1.99	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	-0.003	99	88824	1.93	
8 Dichlorodifluoromethane	85	4.305	4.281	0.022	98	353	0.005933	
10 Chloromethane	50	4.767	4.735	0.030	98	812	0.0367	
18 Acetone	43	7.762	7.714	0.045	99	15566	0.4279	

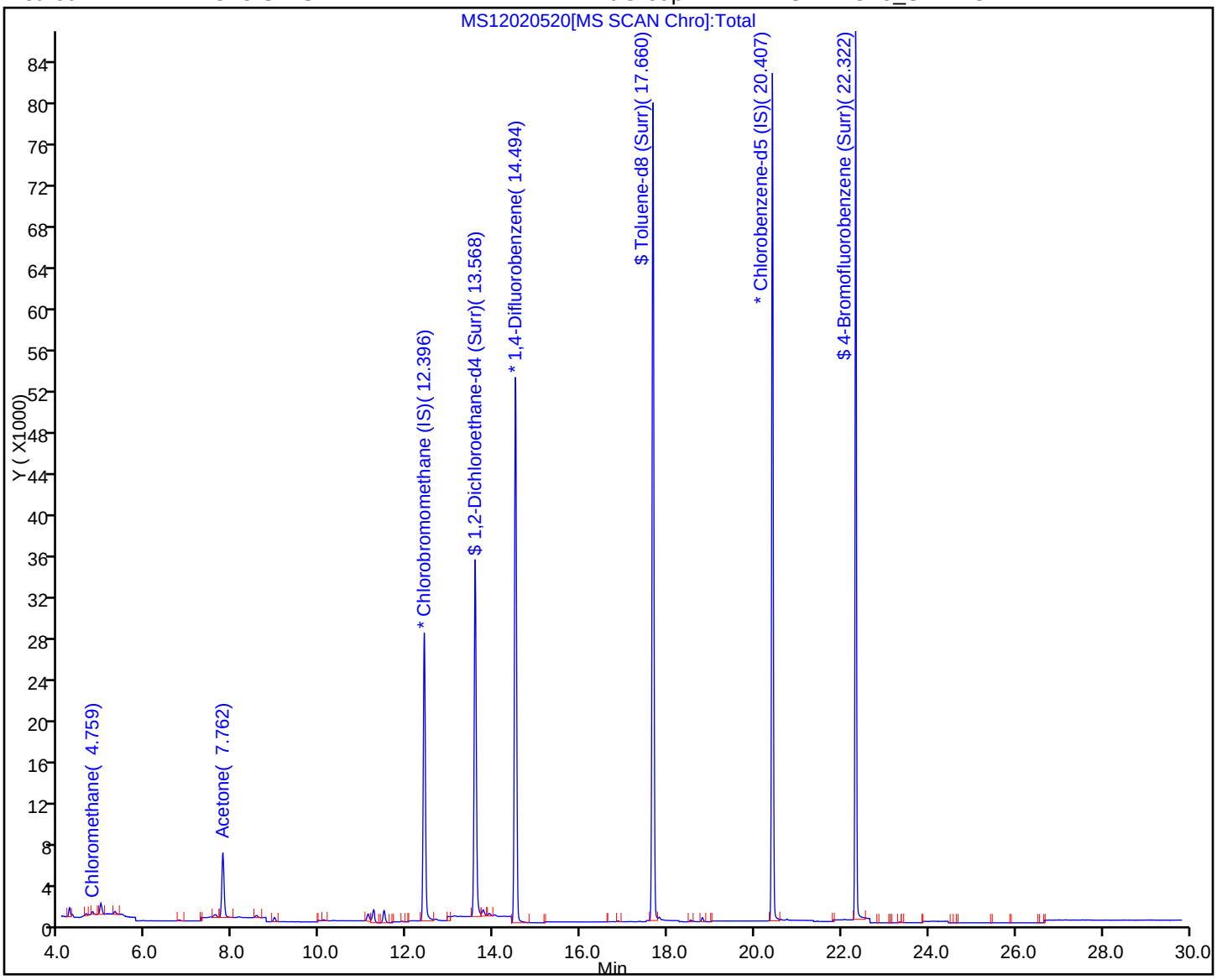
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 06-Feb-2018 08:05:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020520.D				
Injection Date:	06-Feb-2018 05:55:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-5	Lab Sample ID:	320-35506-5		
Client ID:	8360				
Operator ID:	EJ	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



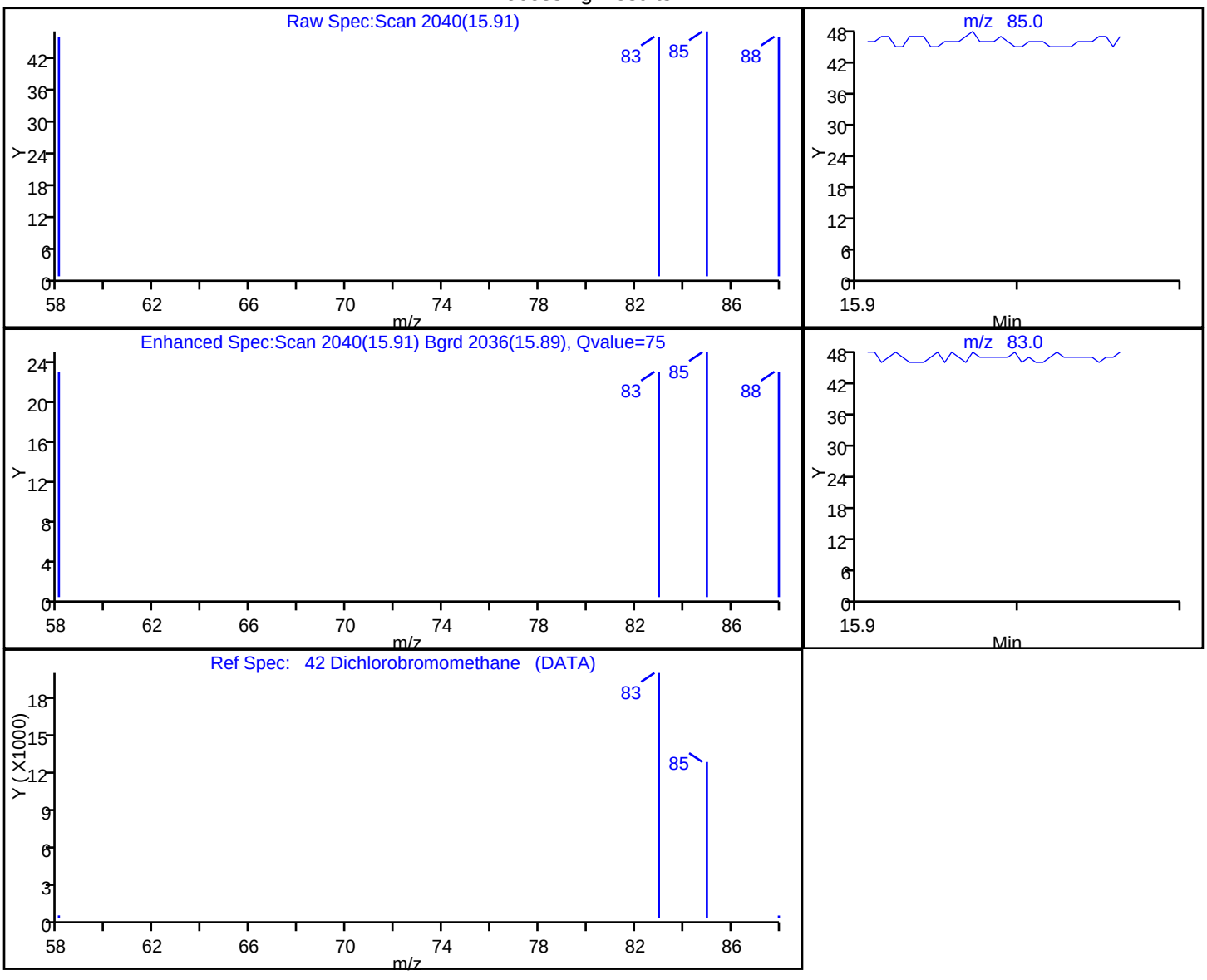
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180205-53682.b\MS12020520.D				
Injection Date:	06-Feb-2018 05:55:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-5	Lab Sample ID:	320-35506-5		
Client ID:	8360				
Operator ID:	EJ	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	61	0.001920
15.91	83.00	37	

Reviewer: jamese, 06-Feb-2018 08:05:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34001283 | Lab Sample ID: 320-35506-6

Matrix: Air | Lab File ID: MS12020608.D

Analysis Method: TO-15 SIM | Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/06/2018 17:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 207084 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34001283 Lab Sample ID: 320-35506-6

Matrix: Air Lab File ID: MS12020608.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 17:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020608.D
Lims ID: 320-35506-A-6
Client ID: 34001283
Sample Type: Client
Inject. Date: 06-Feb-2018 17:24:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-6
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 12:08:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	29202	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	136986	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.407	0.003	99	113942	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	92	73888	2.43	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	80833	1.99	
$ 6 4-Bromofluorobenzene (Surr	174	22.325	22.322	0.003	100	81308	1.97	
8 Dichlorodifluoromethane	85	4.320	4.291	0.029	96	349	0.006432	
10 Chloromethane	50	4.767	4.774	0.022	96	935	0.0463	M
18 Acetone	43	7.744	7.723	0.018	100	66742	2.01	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

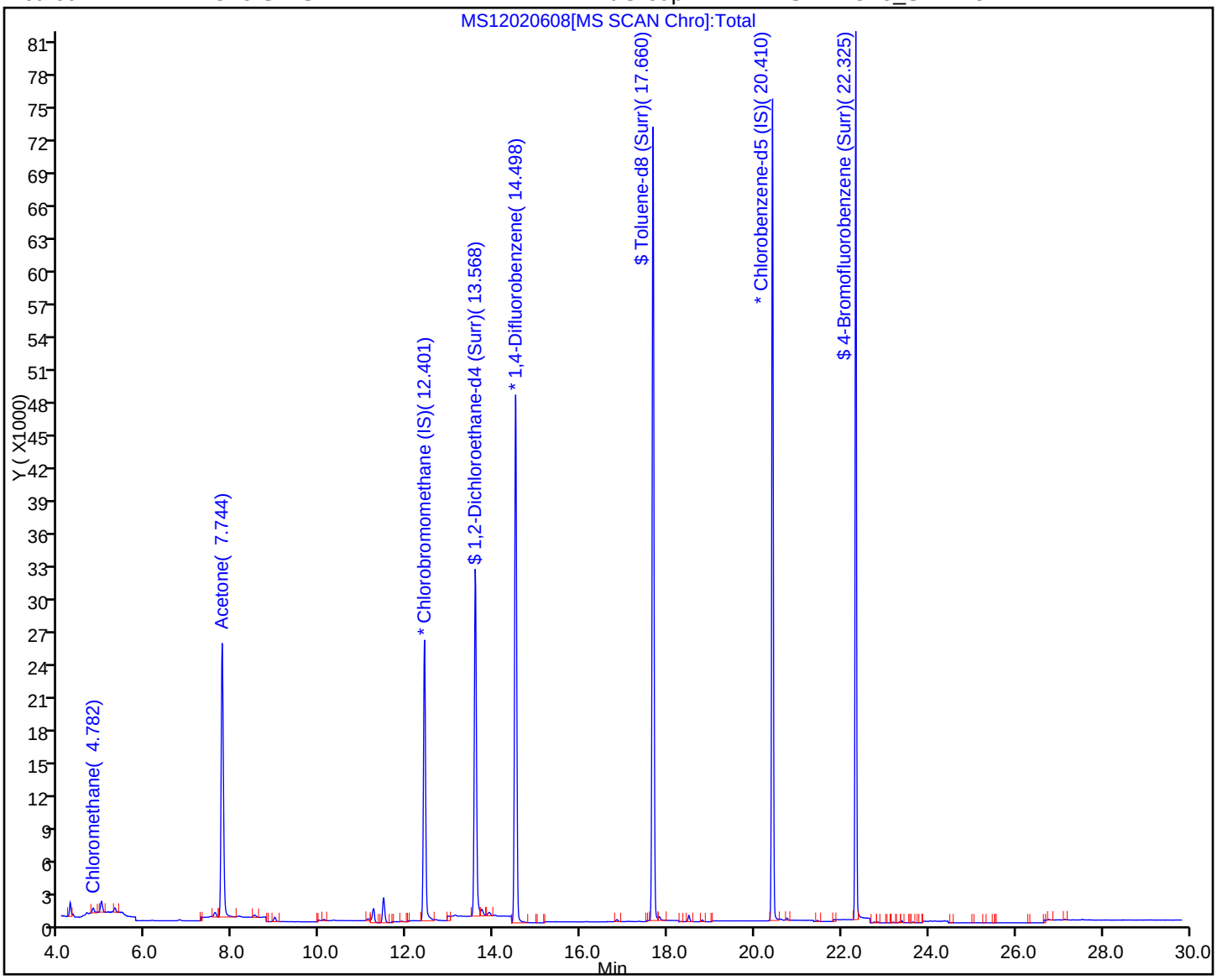
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:10 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020608.D

Injection Date:	06-Feb-2018 17:24:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-6	Lab Sample ID:	320-35506-6		
Client ID:	34001283				
Operator ID:	EJ	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



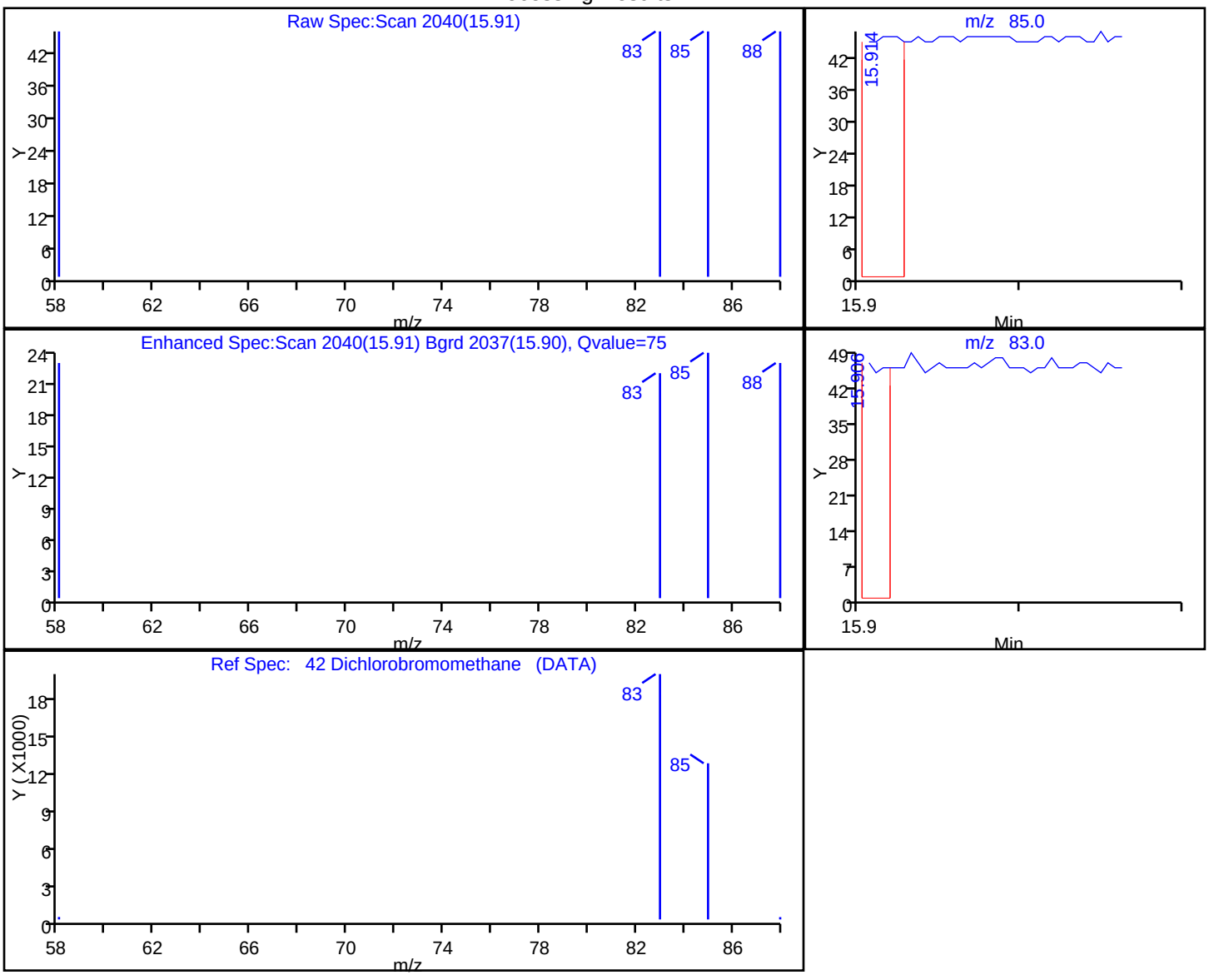
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020608.D				
Injection Date:	06-Feb-2018 17:24:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-6	Lab Sample ID:	320-35506-6		
Client ID:	34001283				
Operator ID:	EJ	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	72	0.002497
15.91	83.00	48	

Reviewer: jamese, 08-Feb-2018 08:32:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35506-1

SDG No.:

Client Sample ID: 7791 | Lab Sample ID: 320-35506-7

Matrix: Air | Lab File ID: MS12020609.D

Analysis Method: TO-15 SIM | Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/06/2018 18:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 207084 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 7791 Lab Sample ID: 320-35506-7

Matrix: Air Lab File ID: MS12020609.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 18:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020609.D
Lims ID: 320-35506-A-7
Client ID: 7791
Sample Type: Client
Inject. Date: 06-Feb-2018 18:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-7
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 08:33:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	29795	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	139827	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.412	20.407	0.005	100	116683	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	98	75994	2.45	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	81675	1.97	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	0.000	99	82757	1.96	
8 Dichlorodifluoromethane	85	4.298	4.291	0.007	98	311	0.005617	
10 Chloromethane	50	4.767	4.774	0.022	91	189	0.009168	7M
18 Acetone	43	7.771	7.723	0.045	100	4964	0.1466	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

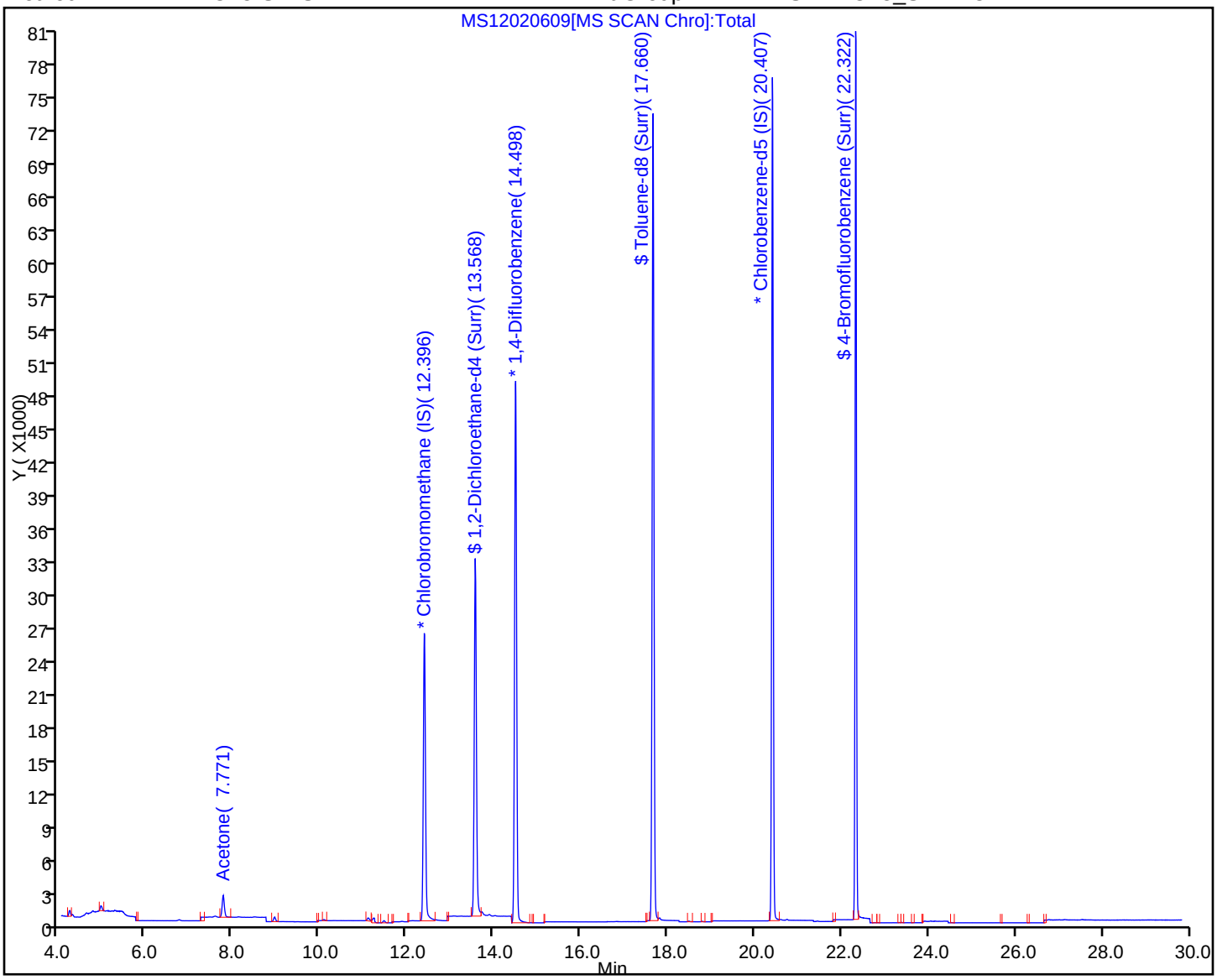
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020609.D

Injection Date:	06-Feb-2018 18:25:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-7	Lab Sample ID:	320-35506-7		
Client ID:	7791				
Operator ID:	EJ	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

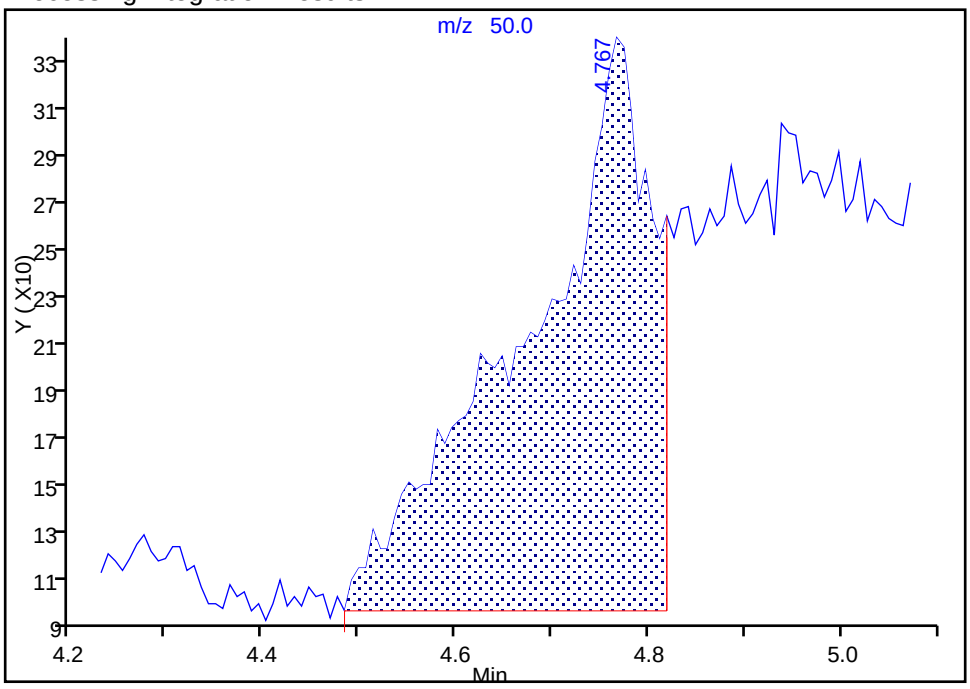
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020609.D				
Injection Date:	06-Feb-2018 18:25:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-7	Lab Sample ID:	320-35506-7		
Client ID:	7791				
Operator ID:	EJ	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Signal: 1

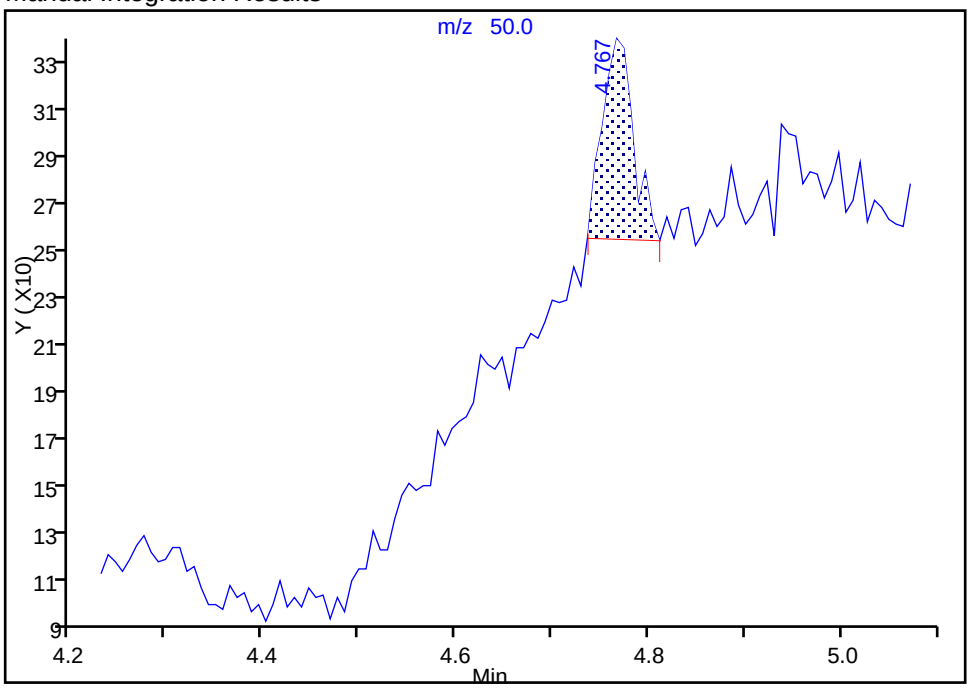
Processing Integration Results

RT: 4.77
Area: 2225
Amount: 0.107934
Amount Units: ppb v/v



Manual Integration Results

RT: 4.77
Area: 189
Amount: 0.009168
Amount Units: ppb v/v



Reviewer: jamese, 08-Feb-2018 12:08:25

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34000447 Lab Sample ID: 320-35506-8

Matrix: Air Lab File ID: MS12020610.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 19:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34000447 Lab Sample ID: 320-35506-8

Matrix: Air Lab File ID: MS12020610.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 19:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020610.D
Lims ID: 320-35506-A-8
Client ID: 34000447
Sample Type: Client
Inject. Date: 06-Feb-2018 19:25:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-8
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 08:33:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	29125	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.498	-0.004	100	136539	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.407	0.003	99	114036	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	92	74575	2.46	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	79912	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.325	22.322	0.003	100	81354	1.97	
10 Chloromethane	50	4.759	4.774	0.014	93	473	0.0235	7M
18 Acetone	43	7.762	7.723	0.036	100	9458	0.2858	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

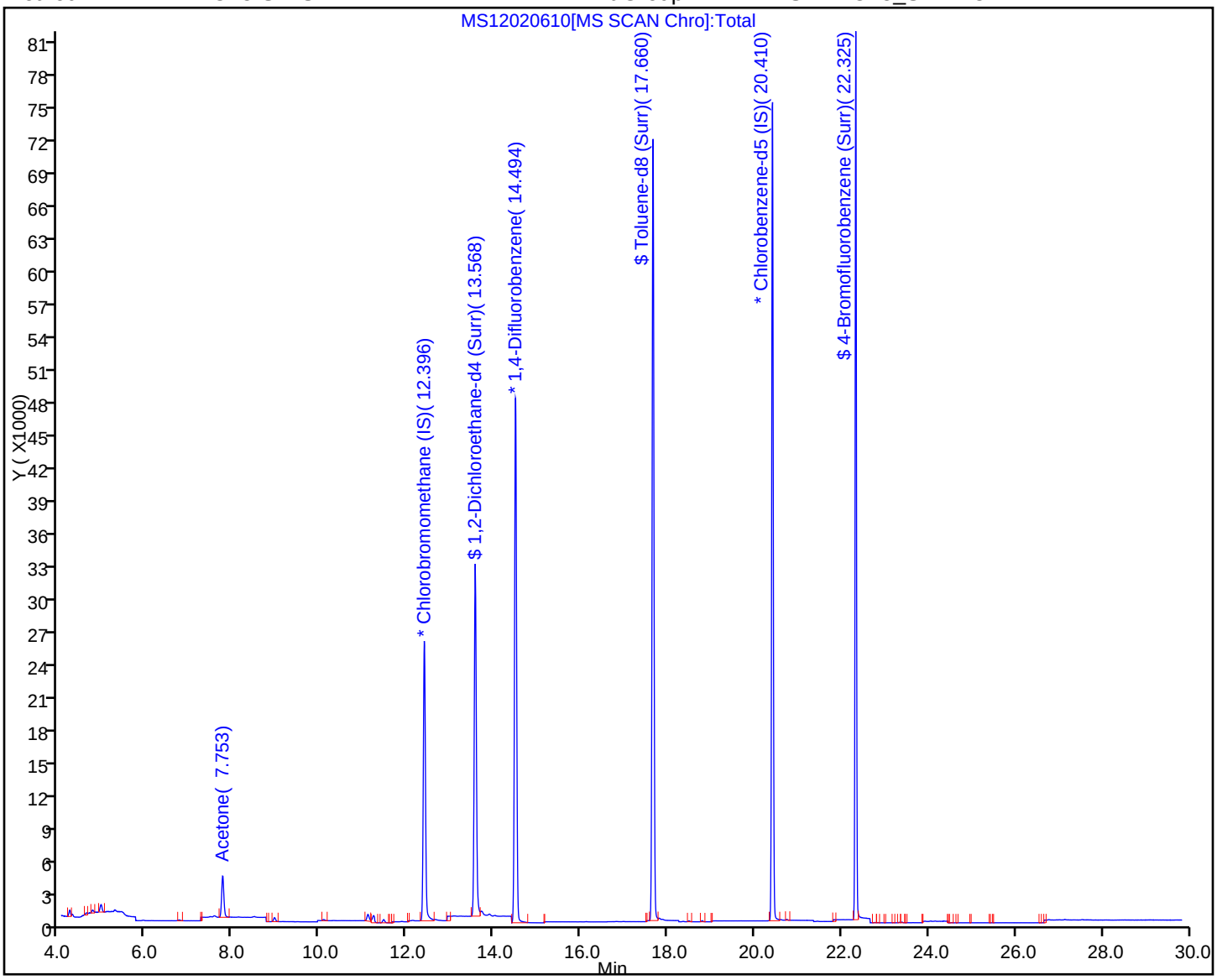
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:13 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020610.D				
Injection Date:	06-Feb-2018 19:25:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-8	Lab Sample ID:	320-35506-8		
Client ID:	34000447				
Operator ID:	EJ	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



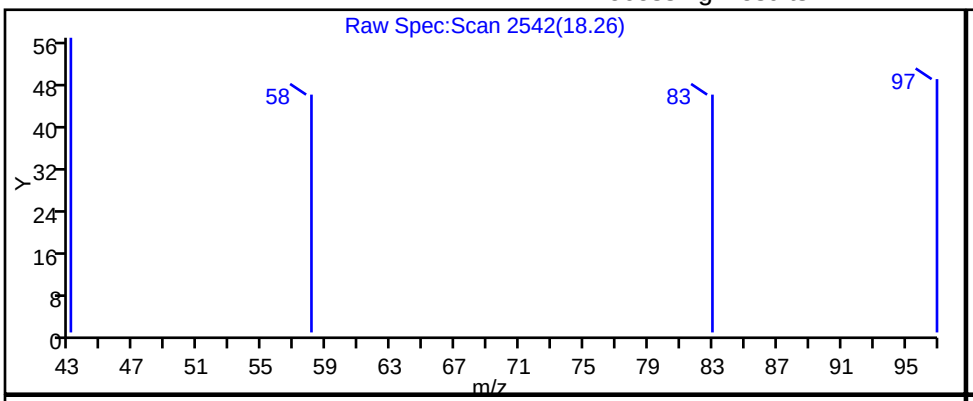
User Disabled Compound Report

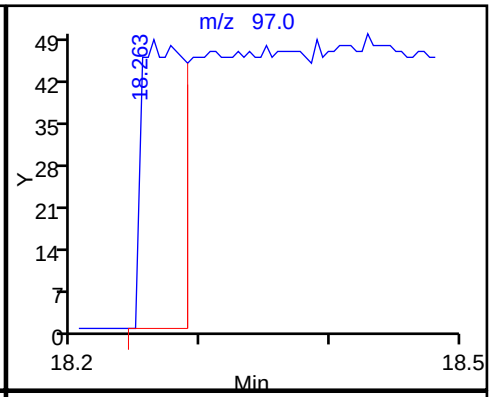
TestAmerica Sacramento

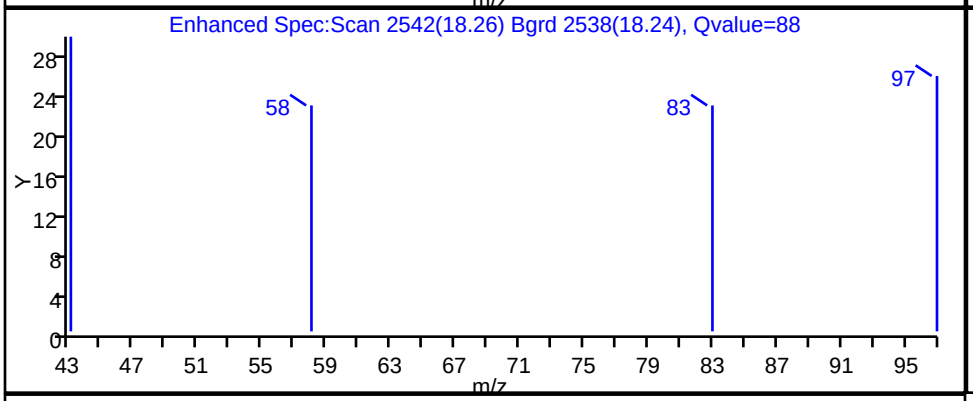
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020610.D				
Injection Date:	06-Feb-2018 19:25:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-8	Lab Sample ID:	320-35506-8		
Client ID:	34000447				
Operator ID:	EJ	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

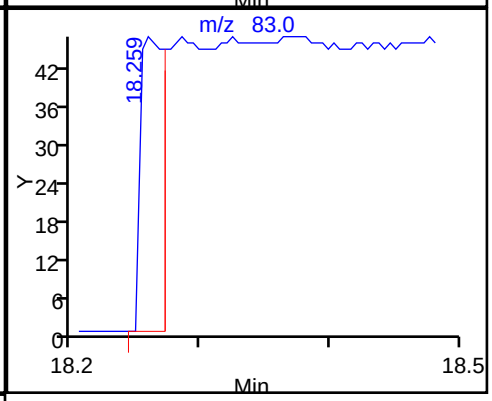
48 1,1,2-Trichloroethane, CAS: 79-00-5

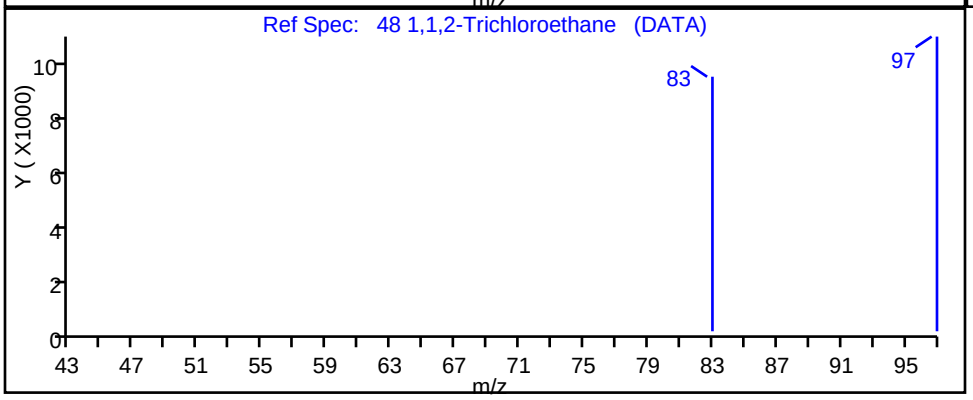
Processing Results











RT	Mass	Response	Amount
18.26	97.00	116	0.005471
18.26	83.00	65	

Reviewer: jamese, 08-Feb-2018 08:33:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34002159 Lab Sample ID: 320-35506-9

Matrix: Air Lab File ID: MS12020611.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 20:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34002159 Lab Sample ID: 320-35506-9

Matrix: Air Lab File ID: MS12020611.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 20:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020611.D
Lims ID: 320-35506-A-9
Client ID: 34002159
Sample Type: Client
Inject. Date: 06-Feb-2018 20:26:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-9
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 08:33:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	28802	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	135278	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.412	20.407	0.005	100	112706	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	98	74020	2.46	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	79468	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	0.000	98	81522	1.99	
10 Chloromethane	50	4.774	4.774	0.029	90	331	0.0166	7M
18 Acetone	43	7.762	7.723	0.036	97	16387	0.5008	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

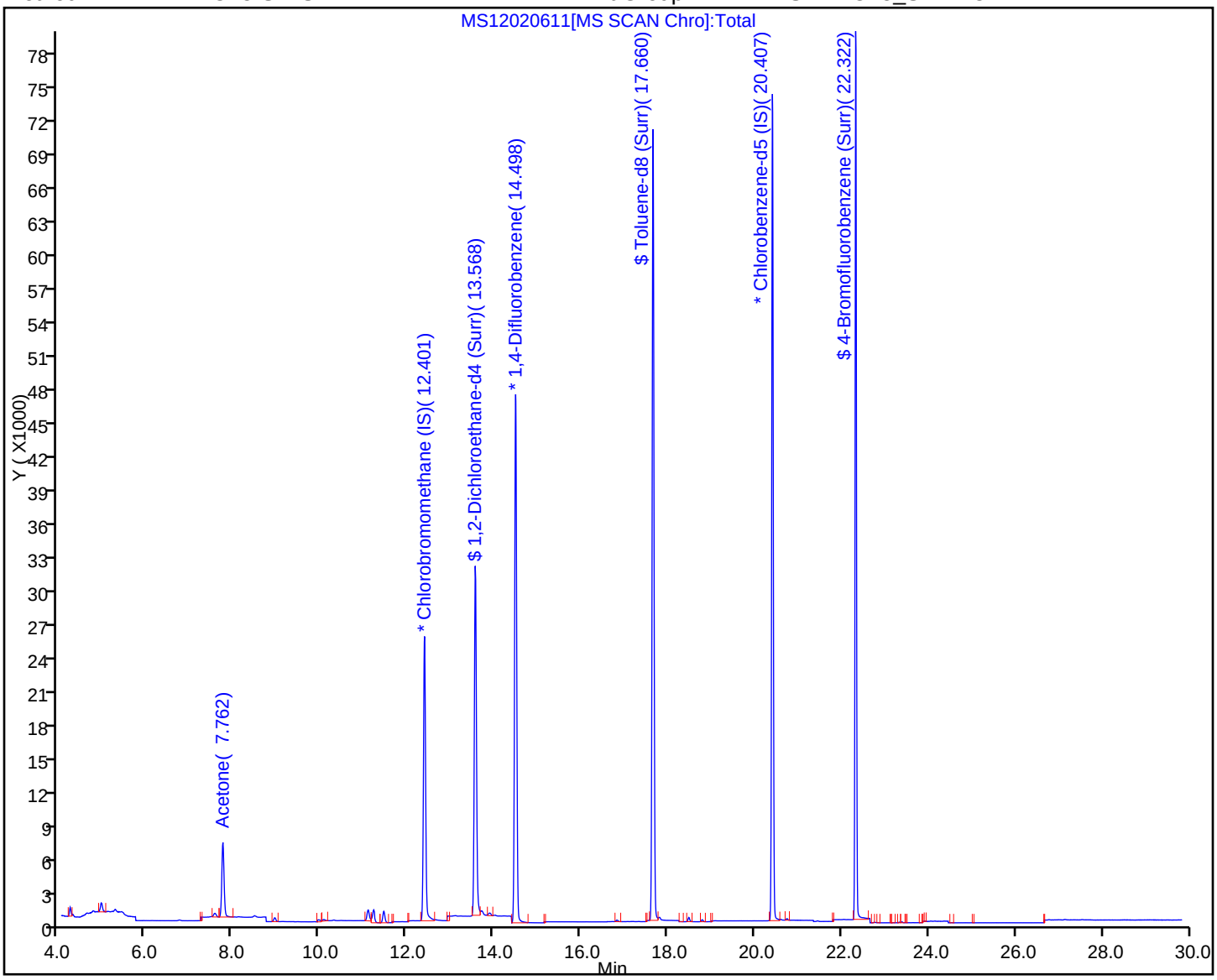
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:14 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020611.D				
Injection Date:	06-Feb-2018 20:26:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-9	Lab Sample ID:	320-35506-9		
Client ID:	34002159				
Operator ID:	EJ	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35506-1

SDG No.:

Client Sample ID: 8056 | Lab Sample ID: 320-35506-10

Matrix: Air | Lab File ID: MS12020613.D

Analysis Method: TO-15 SIM | Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/06/2018 22:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 207084 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	0.013	J	0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 8056 Lab Sample ID: 320-35506-10

Matrix: Air Lab File ID: MS12020613.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 22:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
95-47-6	o-Xylene	0.018	J	0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020613.D
Lims ID: 320-35506-A-10
Client ID: 8056
Sample Type: Client
Inject. Date: 06-Feb-2018 22:19:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-10
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 08:34:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.407	12.401	0.006	97	28597	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	134489	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.407	0.003	99	113825	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	89	73681	2.46	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	79054	1.99	
$ 6 4-Bromofluorobenzene (Surr	174	22.321	22.322	-0.001	98	84702	2.05	
10 Chloromethane	50	4.774	4.774	0.029	98	626	0.0316	M
18 Acetone	43	7.762	7.723	0.036	100	17258	0.5312	
55 Ethylbenzene	91	20.603	20.597	0.004	100	1063	0.0129	
56 m-Xylene & p-Xylene	91	20.740	20.740	-0.003	100	2610	0.0404	
57 o-Xylene	91	21.436	21.434	-0.001	91	1129	0.0183	
71 Naphthalene	128	27.127	27.126	-0.002	100	37167	0.6816	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

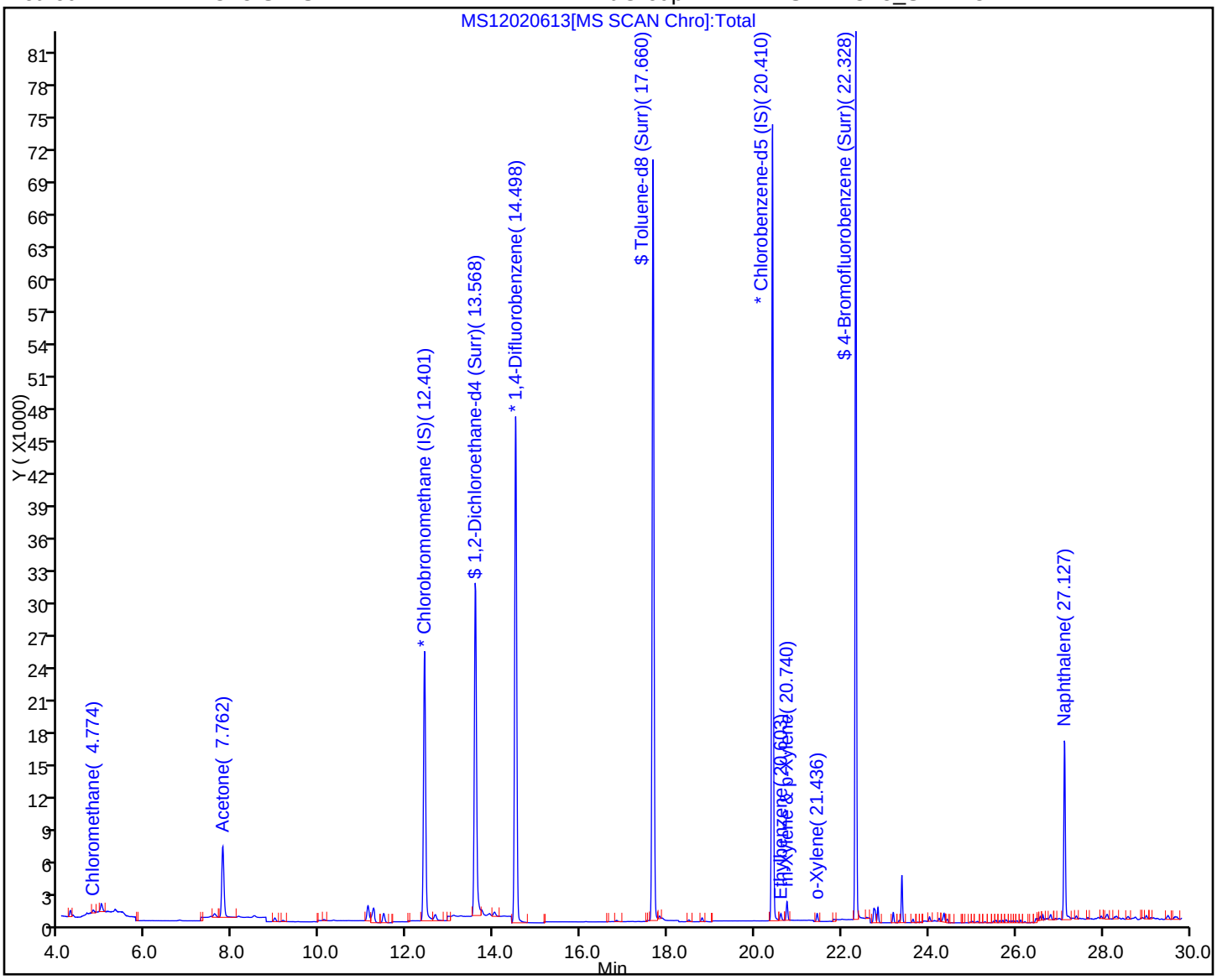
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020613.D

Injection Date:	06-Feb-2018 22:19:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-10	Lab Sample ID:	320-35506-10		
Client ID:	8056				
Operator ID:	EJ	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



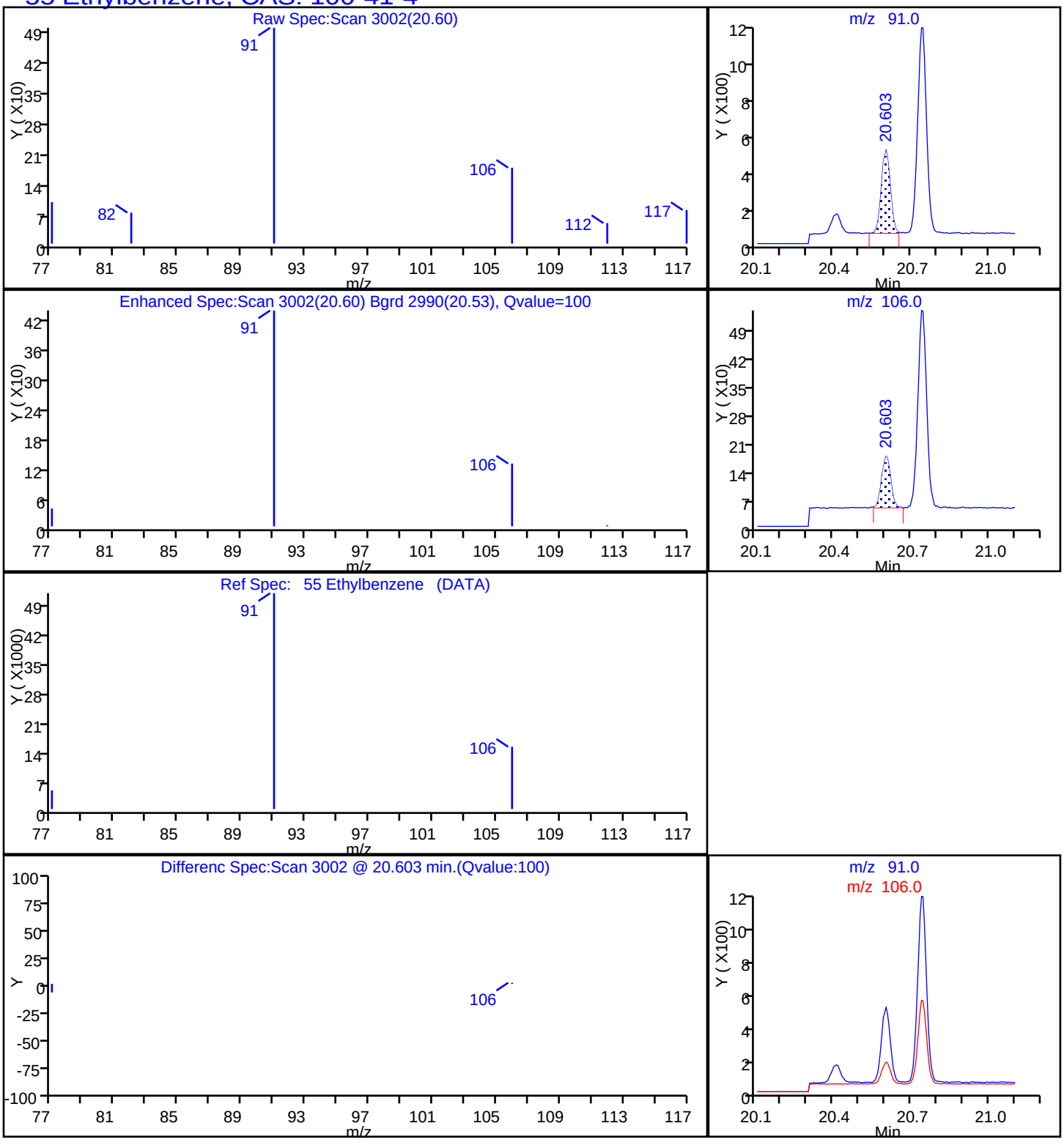
Report Date: 08-Feb-2018 12:11:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020613.D

Injection Date:	06-Feb-2018 22:19:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-10	Lab Sample ID:	320-35506-10		
Client ID:	8056				
Operator ID:	EJ	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

55 Ethylbenzene, CAS: 100-41-4



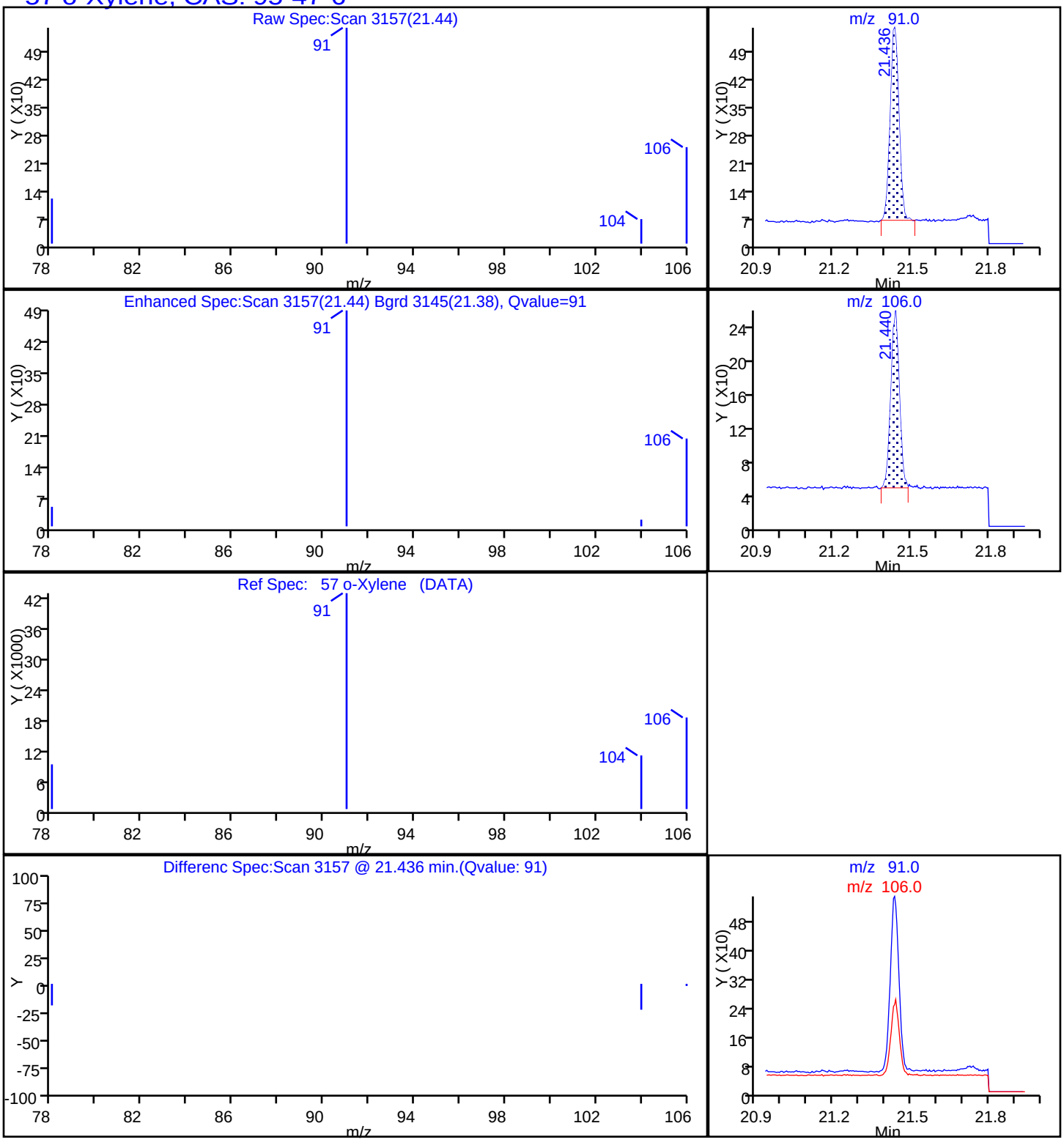
Report Date: 08-Feb-2018 12:11:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020613.D

Injection Date:	06-Feb-2018 22:19:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-10	Lab Sample ID:	320-35506-10		
Client ID:	8056				
Operator ID:	EJ	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

57 o-Xylene, CAS: 95-47-6



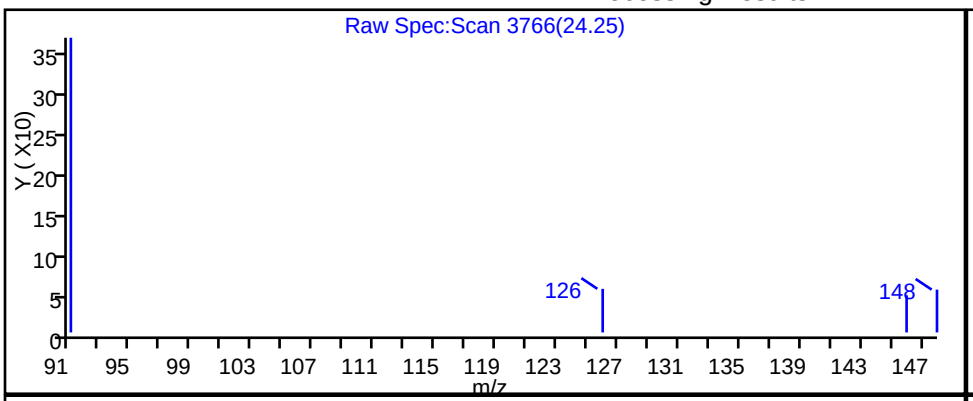
User Disabled Compound Report

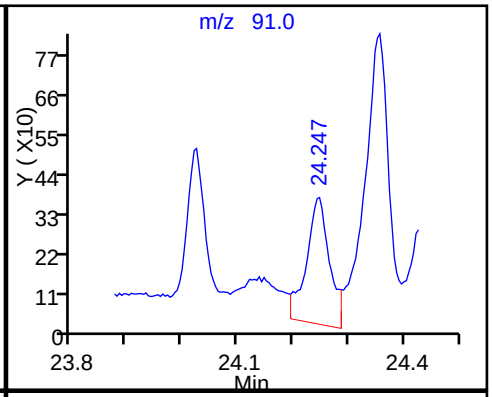
TestAmerica Sacramento

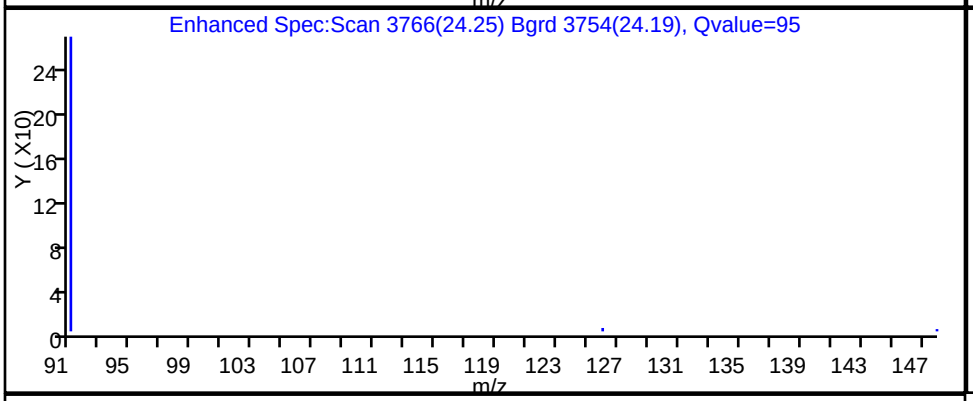
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020613.D		
Injection Date:	06-Feb-2018 22:19:30	Instrument ID:	ATMS12
Lims ID:	320-35506-A-10	Lab Sample ID:	320-35506-10
Client ID:	8056		
Operator ID:	EJ	ALS Bottle#:	13 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

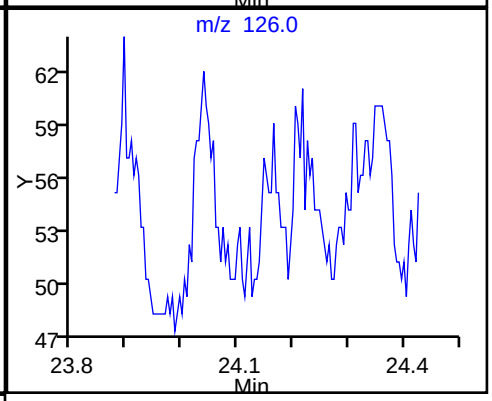
67 Benzyl chloride, CAS: 100-44-7

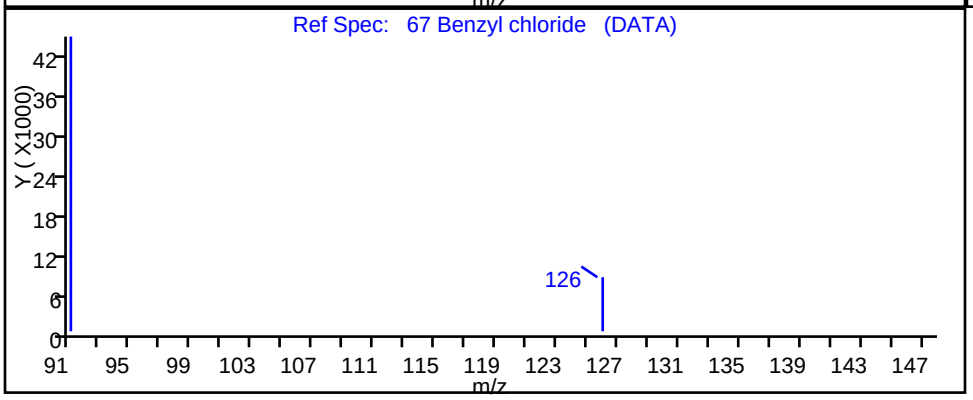
Processing Results











RT	Mass	Response	Amount
24.25	91.00	1036	0.015405
24.15	126.00	0	

Reviewer: jamese, 08-Feb-2018 08:34:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34001802 Lab Sample ID: 320-35506-11

Matrix: Air Lab File ID: MS12020614.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 23:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	0.011	J	0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34001802 Lab Sample ID: 320-35506-11

Matrix: Air Lab File ID: MS12020614.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/06/2018 23:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

Report Date: 08-Feb-2018 12:11:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020614.D
Lims ID: 320-35506-A-11
Client ID: 34001802
Sample Type: Client
Inject. Date: 06-Feb-2018 23:19:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-11
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 08:34:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	29394	2.00	
*	2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	137294	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.407	20.407	0.000	98	114030	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	98	74698	2.45	
$	5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	80102	1.97	
$	6 4-Bromofluorobenzene (Surr	174	22.322	22.322	0.000	99	81832	1.98	
	8 Dichlorodifluoromethane	85	4.305	4.291	0.014	99	299	0.005474	
	10 Chloromethane	50	4.767	4.774	0.022	81	390	0.0192	7M
	18 Acetone	43	7.762	7.723	0.036	100	5791	0.1734	
	38 Benzene	78	13.889	13.889	0.000	99	7166	0.1294	
	71 Naphthalene	128	27.135	27.126	0.006	100	627	0.0115	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

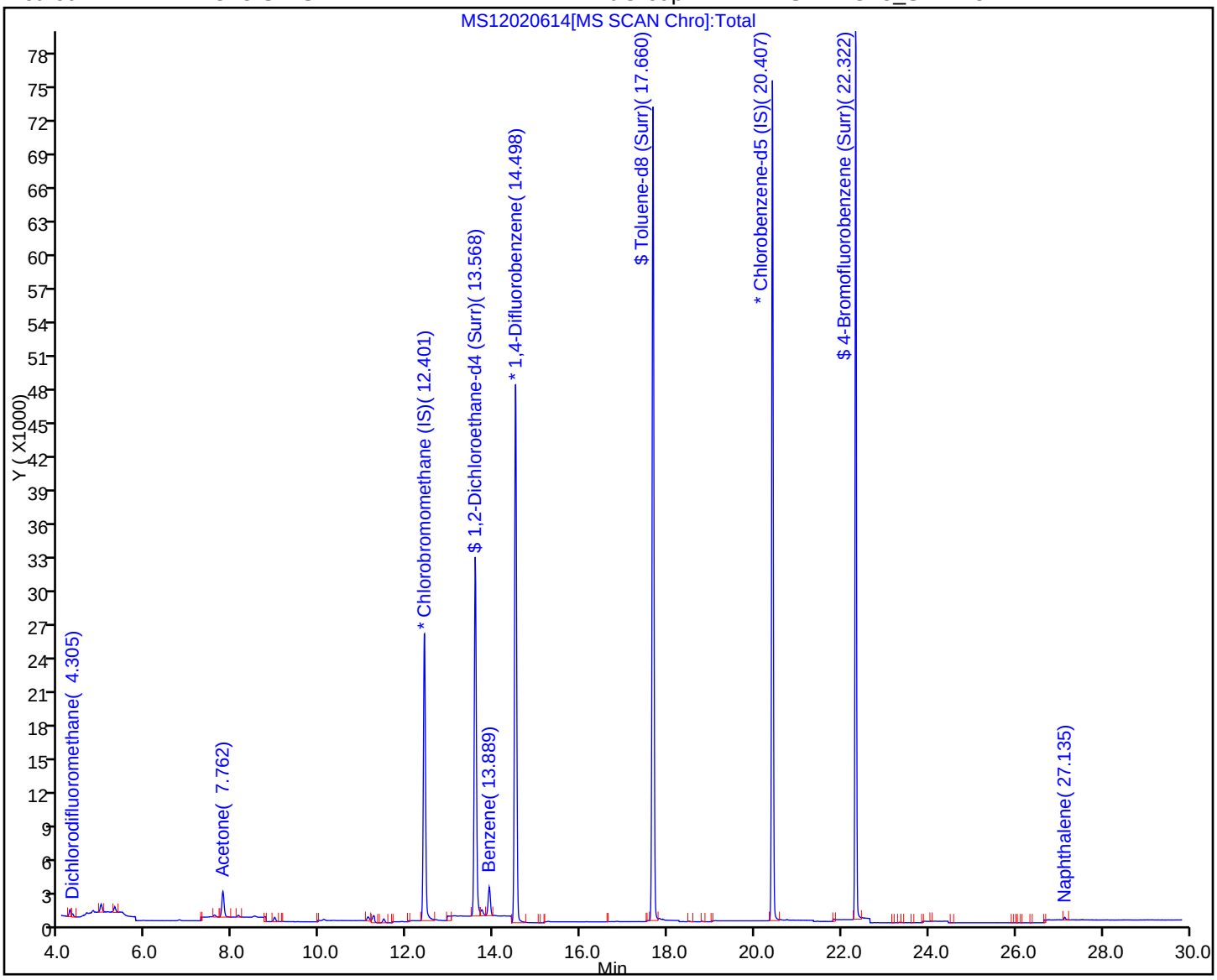
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020614.D				
Injection Date:	06-Feb-2018 23:19:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-11	Lab Sample ID:	320-35506-11		
Client ID:	34001802				
Operator ID:	EJ	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



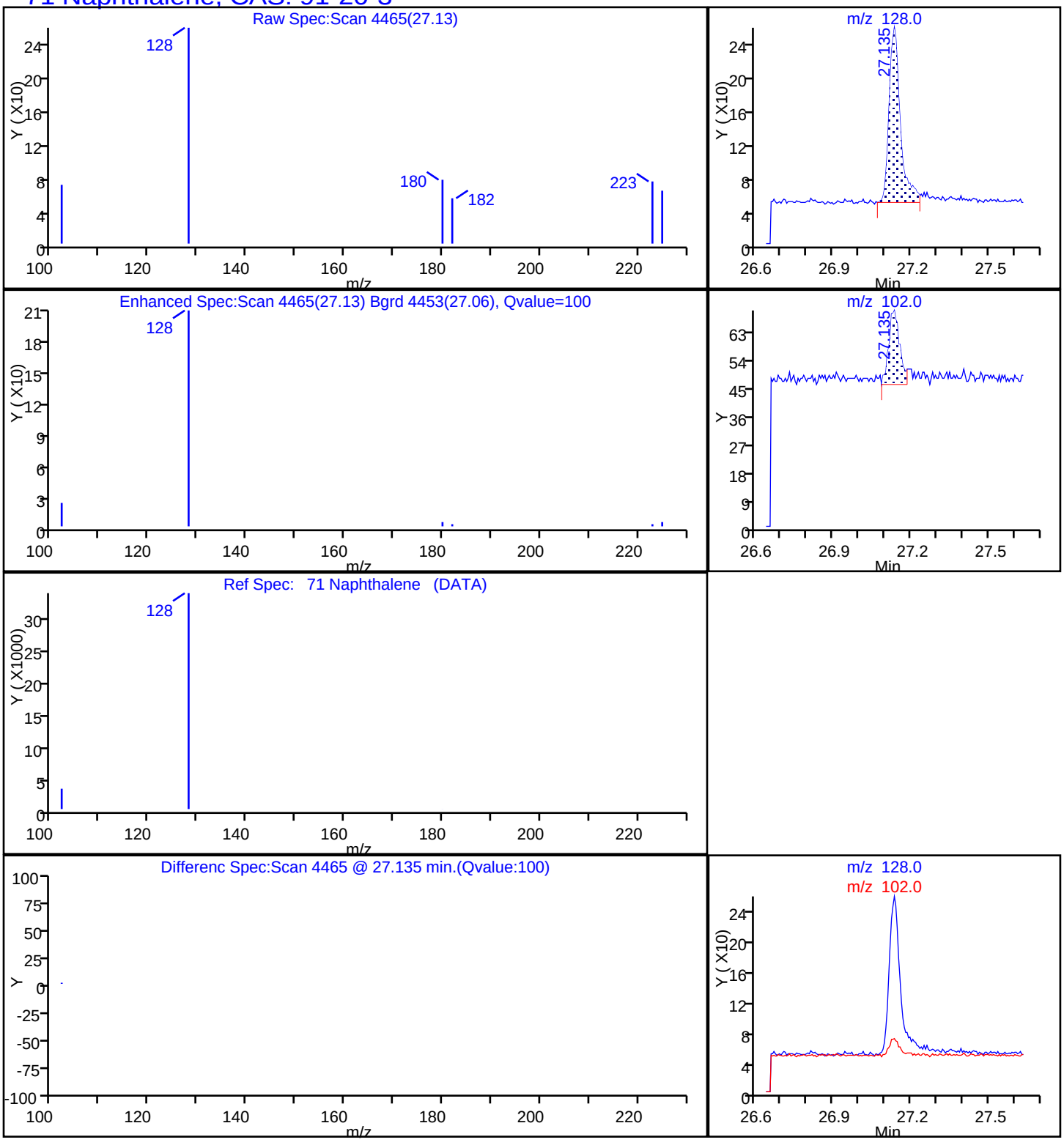
Report Date: 08-Feb-2018 12:11:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020614.D

Injection Date:	06-Feb-2018 23:19:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-11	Lab Sample ID:	320-35506-11		
Client ID:	34001802				
Operator ID:	EJ	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

71 Naphthalene, CAS: 91-20-3



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34000174 Lab Sample ID: 320-35506-12

Matrix: Air Lab File ID: MS12020615.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/07/2018 00:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Client Sample ID: 34000174 Lab Sample ID: 320-35506-12

Matrix: Air Lab File ID: MS12020615.D

Analysis Method: TO-15 SIM Date Collected: 01/29/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/07/2018 00:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 207084 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020615.D
Lims ID: 320-35506-A-12
Client ID: 34000174
Sample Type: Client
Inject. Date: 07-Feb-2018 00:20:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35506-A-12
Operator ID: EJ Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 08-Feb-2018 12:10:36 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: jamese Date: 08-Feb-2018 08:35:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	28882	2.00	
* 2 1,4-Difluorobenzene	114	14.498	14.498	0.000	100	135575	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.407	0.000	98	112472	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.564	0.000	90	73958	2.45	
$ 5 Toluene-d8 (Surr)	100	17.660	17.655	0.000	100	79256	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.322	0.000	98	80270	1.97	
8 Dichlorodifluoromethane	85	4.313	4.291	0.022	100	315	0.005870	
10 Chloromethane	50	4.774	4.774	0.029	83	474	0.0237	7M
18 Acetone	43	7.771	7.723	0.045	100	12421	0.3785	
71 Naphthalene	128	27.135	27.126	0.006	100	847	0.0157	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

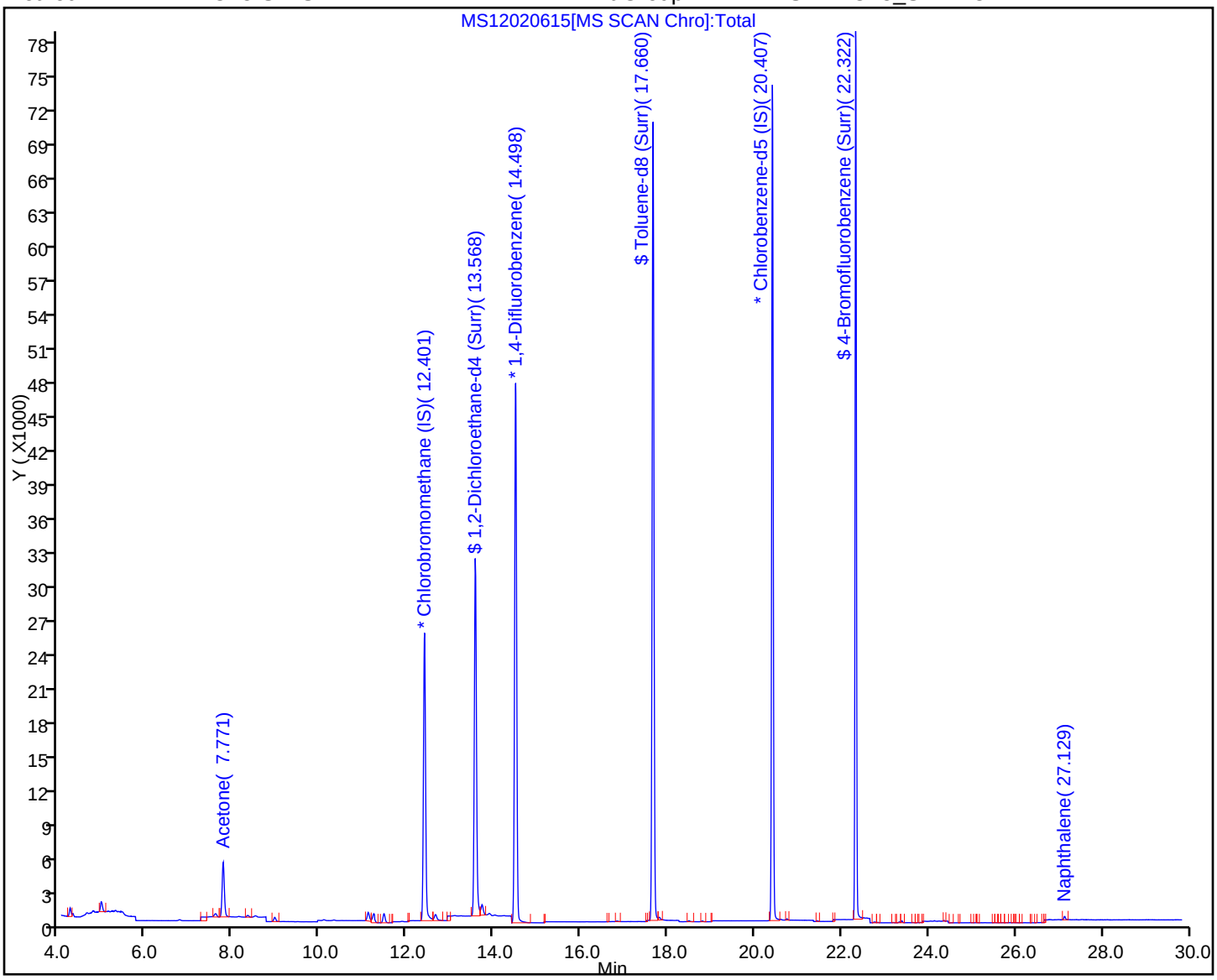
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 08-Feb-2018 12:11:18 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180206-53728.b\MS12020615.D				
Injection Date:	07-Feb-2018 00:20:30	Instrument ID:	ATMS12		
Lims ID:	320-35506-A-12	Lab Sample ID:	320-35506-12		
Client ID:	34000174				
Operator ID:	EJ	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35602-1

SDG No.:

Client Sample ID: 34001546 | Lab Sample ID: 320-35602-1

Matrix: Air | Lab File ID: 18021426.D

Analysis Method: TO-15 | Date Collected: 01/31/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/15/2018 07:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208383 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35602-1

SDG No.:

Client Sample ID: 34001546 | Lab Sample ID: 320-35602-1

Matrix: Air | Lab File ID: 18021426.D

Analysis Method: TO-15 | Date Collected: 01/31/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/15/2018 07:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208383 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	0.095	J B	0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	0.13	J	0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	0.055	J	0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	Freon-113	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067
79-01-6	Trichloroethene	ND		0.40	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35602-1

SDG No.:

Client Sample ID: 34001546 | Lab Sample ID: 320-35602-1

Matrix: Air | Lab File ID: 18021426.D

Analysis Method: TO-15 | Date Collected: 01/31/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/15/2018 07:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208383 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054
1330-20-7	Xylenes, Total	ND		1.2	0.074
64-17-5	Ethanol	ND		1.0	0.18
75-05-8	Acetonitrile	ND		0.40	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D
Lims ID: 320-35602-A-1
Client ID: 34001546
Sample Type: Client
Inject. Date: 15-Feb-2018 07:36:30 ALS Bottle#: 15 Worklist Smp#: 41
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Sample Info: 320-35602-A-1
Misc. Info.: 500 CAN CERT
Operator ID: SV Instrument ID: ATMS2

Method: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\TO15_ATMS2N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 15-Feb-2018 10:02:34 Calib Date: 06-Feb-2018 23:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS2\20180206-53757.b\18020612.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 15-Feb-2018 10:02:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.380	11.380	0.000	99	55799	4.00	
* 2 1,4-Difluorobenzene	114	13.472	13.473	-0.001	95	229830	4.00	
* 3 Chlorobenzene-d5 (IS)	117	19.526	19.526	0.000	87	209787	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.536	12.535	0.000	0	78720	3.73	
$ 5 Toluene-d8 (Surr)	100	16.697	16.697	0.000	99	139373	3.79	
$ 6 4-Bromofluorobenzene (Surr	95	21.551	21.551	-0.001	91	153173	3.97	
10 Propene	41	3.940	3.927	0.013	96	1986	0.1258	
32 Acetone	43	6.951	6.896	0.055	97	14160	-0.0642	
39 Methylene Chloride	49	8.095	8.088	0.007	79	1838	0.0946	
79 Tetrachloroethene	166	18.175	18.175	0.000	87	1407	0.0548	

Reagents:

VAMSIS20_00106 Amount Added: 50.00 Units: mL Run Reagent

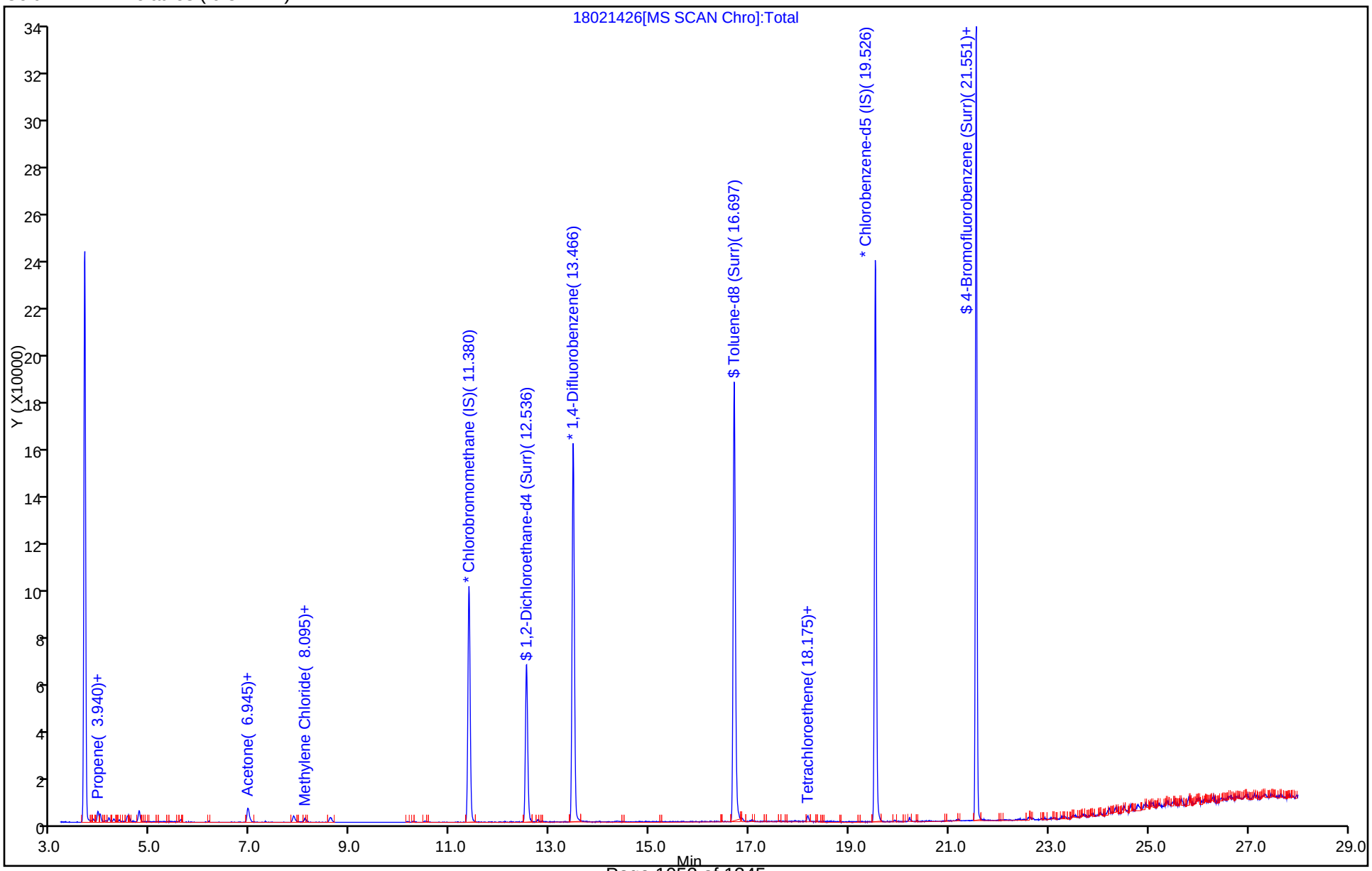
Report Date: 15-Feb-2018 10:02:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D

Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2	Operator ID:	SV
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1	Worklist Smp#:	41
Client ID:	34001546				
Purge Vol:	250.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



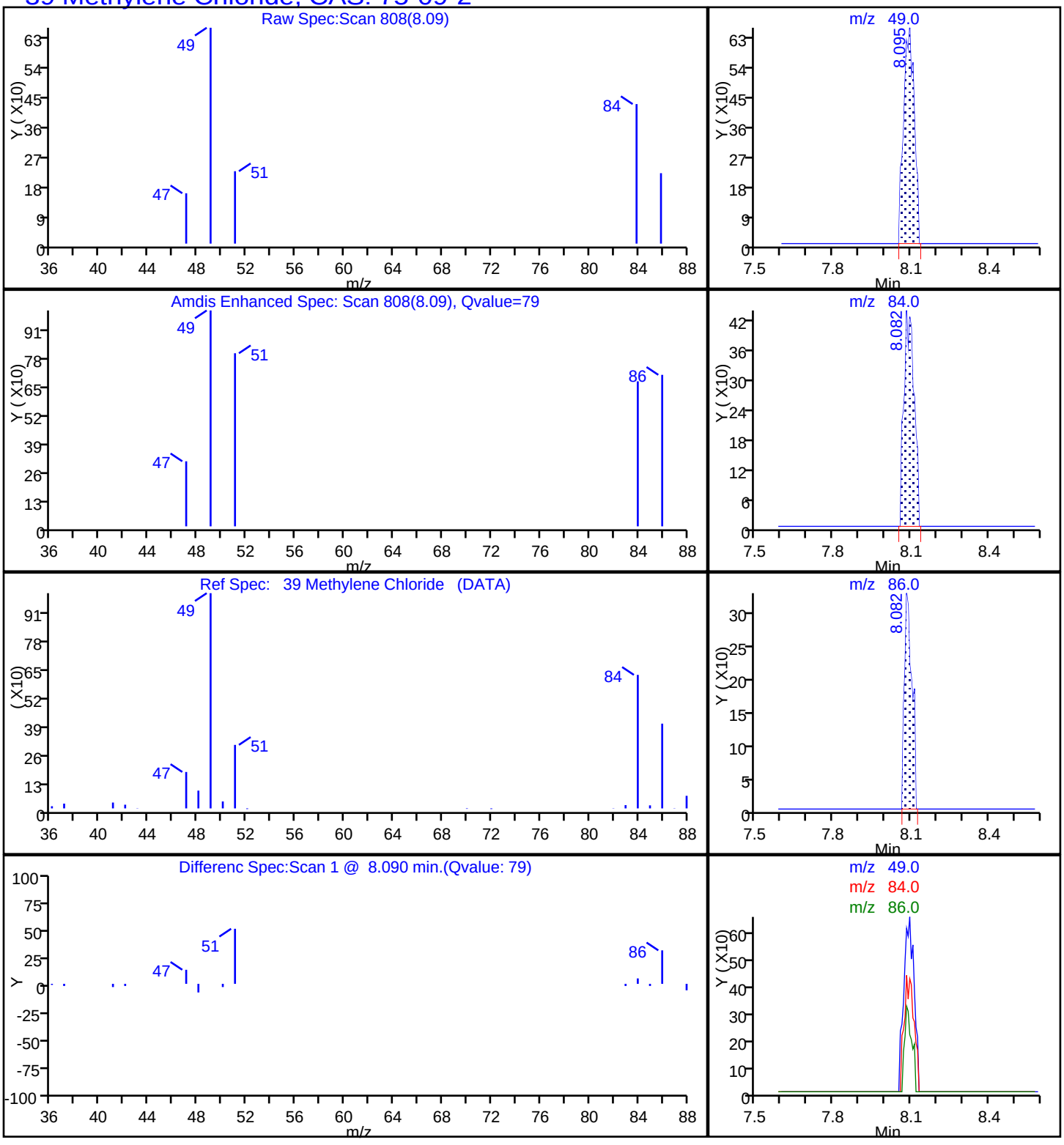
Report Date: 15-Feb-2018 10:02:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D

Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1
Client ID:	34001546		
Operator ID:	SV	ALS Bottle#:	15 Worklist Smp#: 41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

39 Methylene Chloride, CAS: 75-09-2



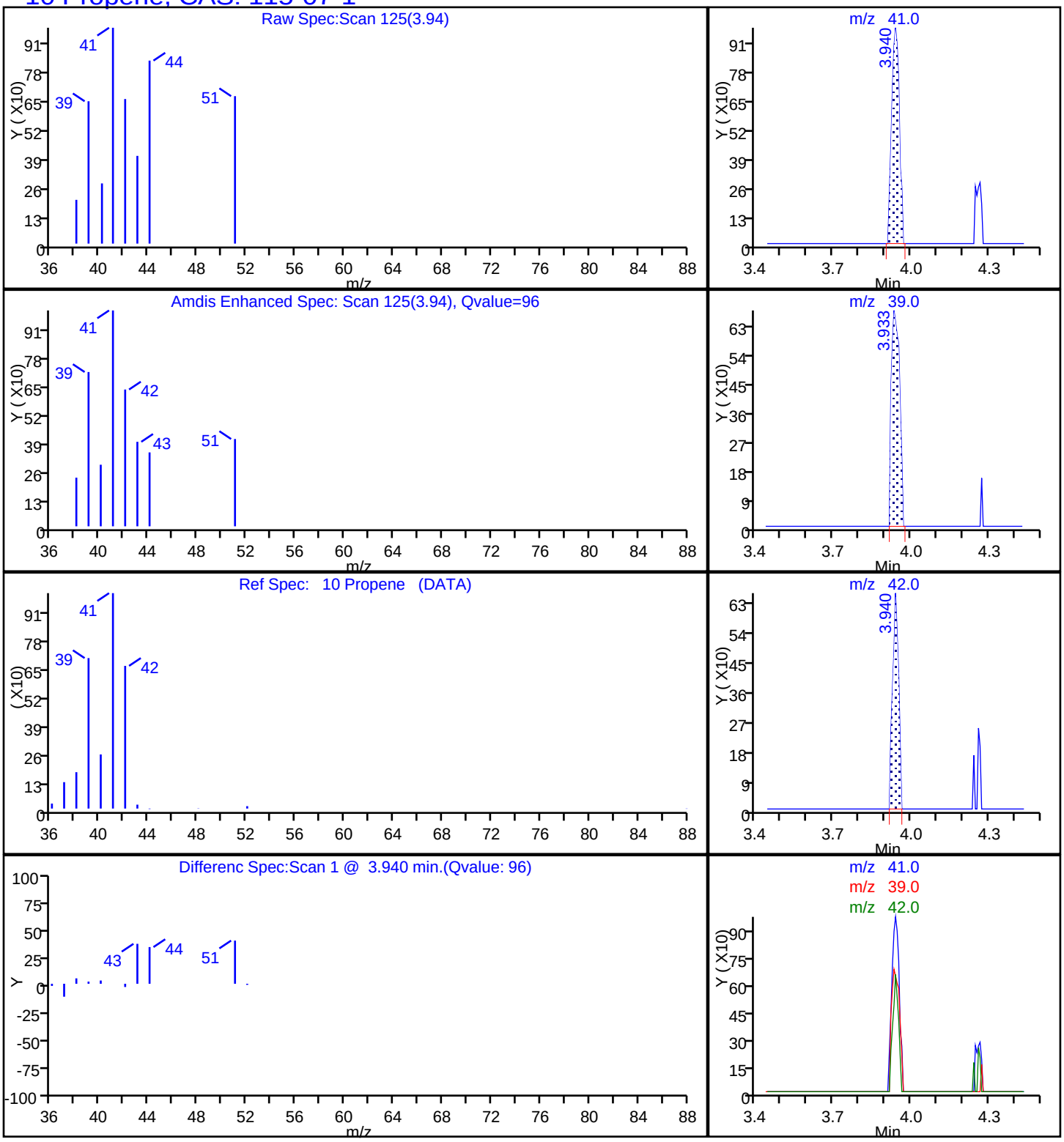
Report Date: 15-Feb-2018 10:02:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D

Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1
Client ID:	34001546		
Operator ID:	SV	ALS Bottle#:	15 Worklist Smp#: 41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

10 Propene, CAS: 115-07-1



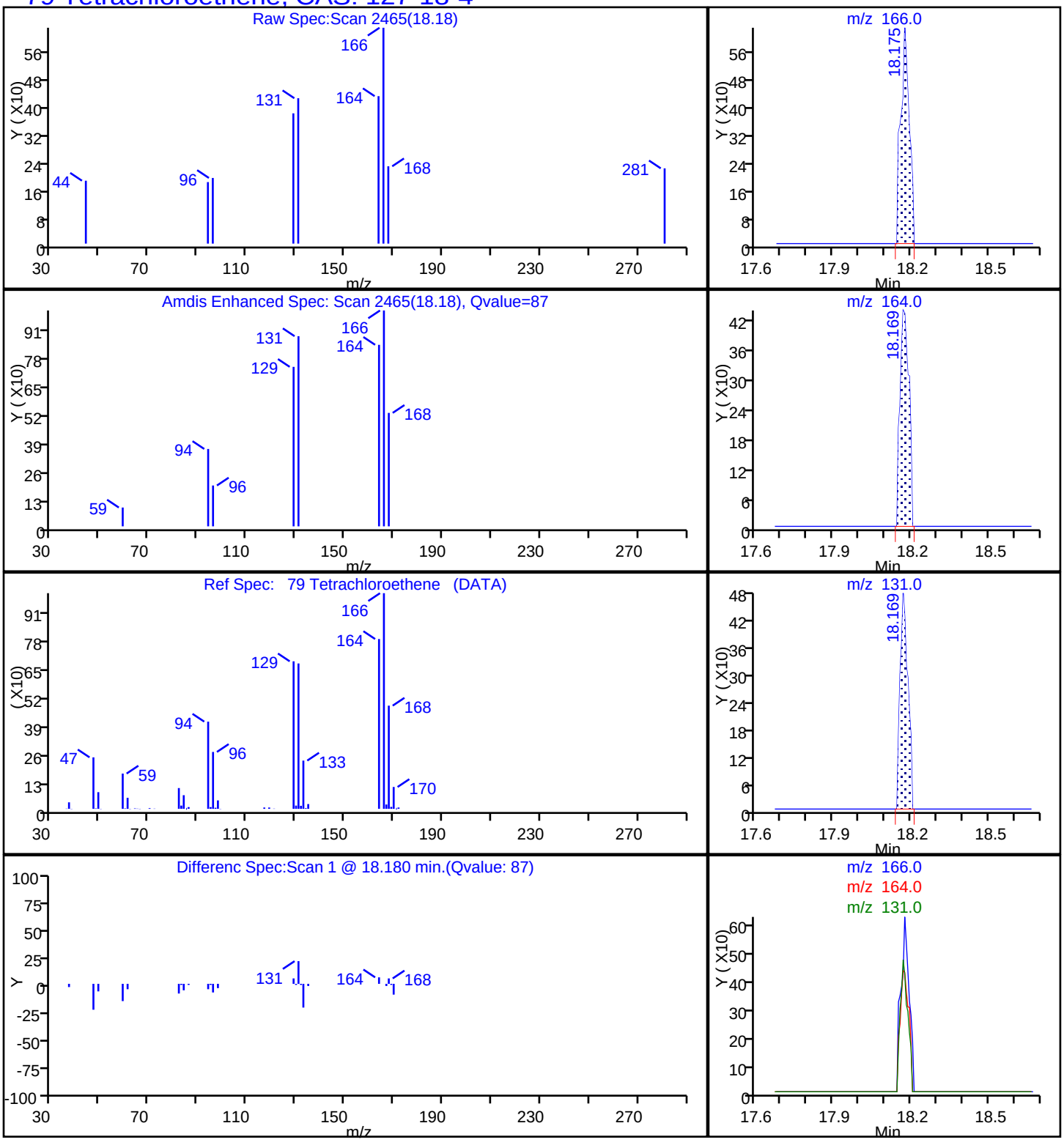
Report Date: 15-Feb-2018 10:02:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D

Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1
Client ID:	34001546		
Operator ID:	SV	ALS Bottle#:	15 Worklist Smp#: 41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

79 Tetrachloroethene, CAS: 127-18-4



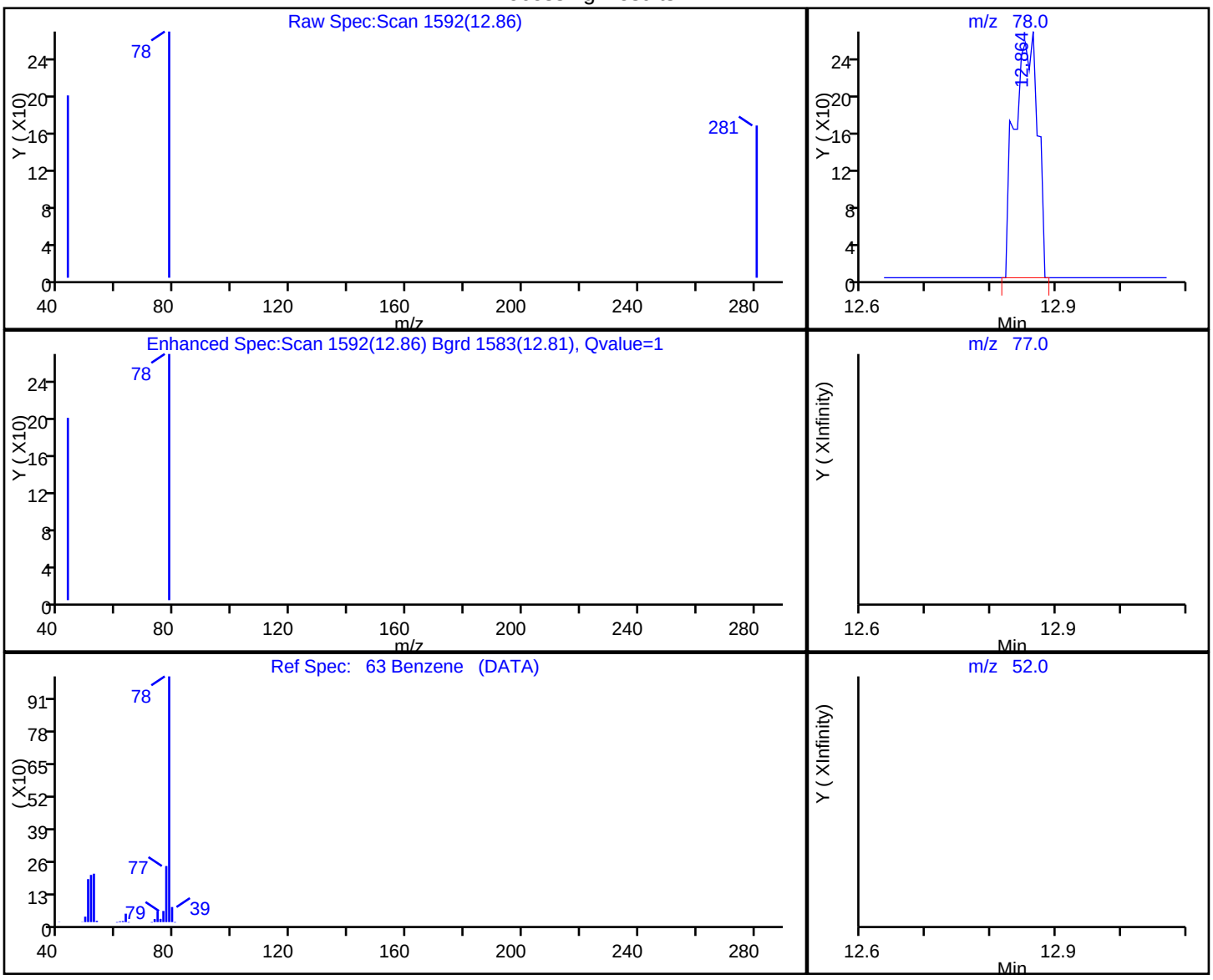
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

63 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
12.86	78.00	640	0.015250
12.85	77.00	0	
12.85	52.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

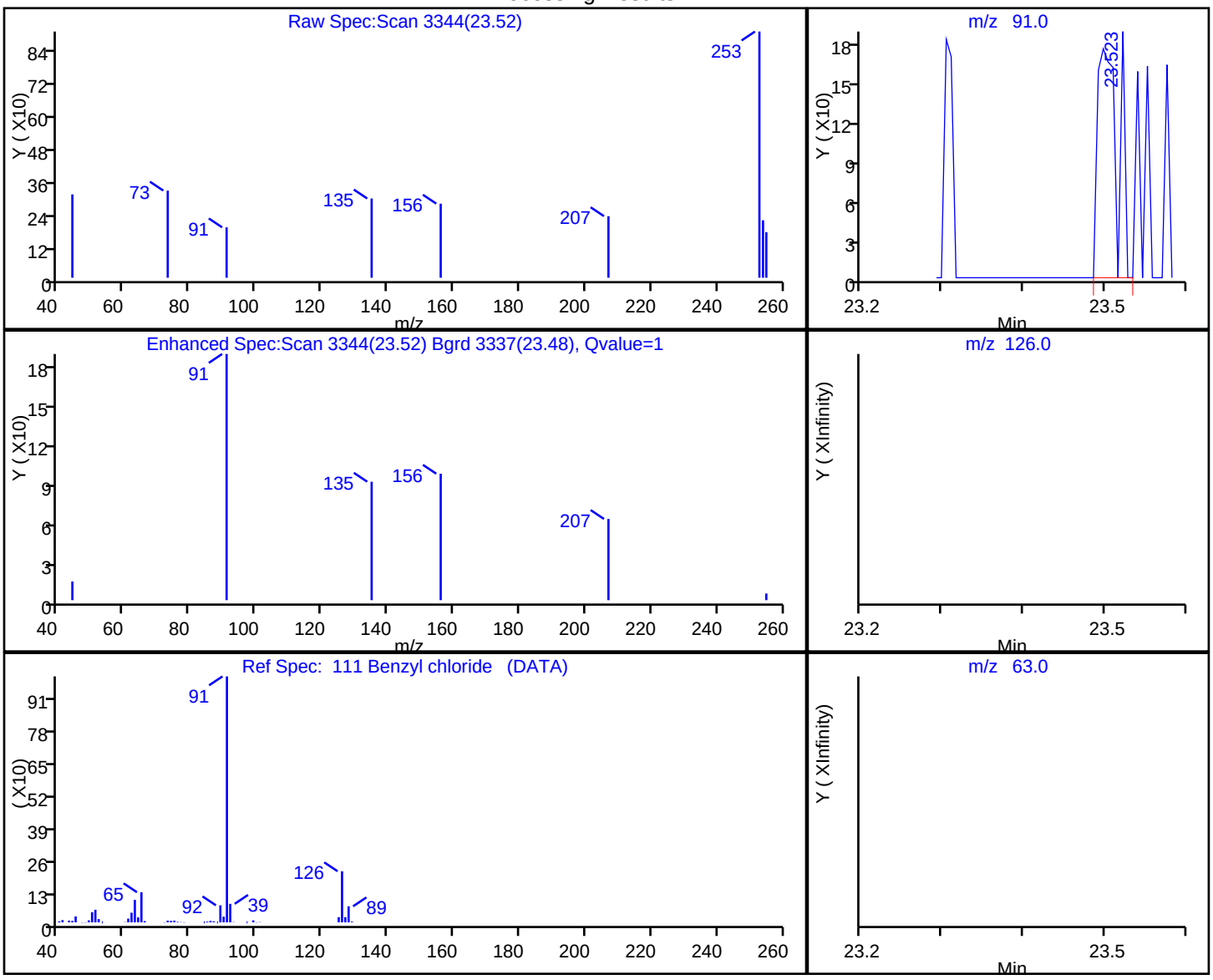
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

111 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
23.52	91.00	304	0.004961
23.44	126.00	0	
23.44	63.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

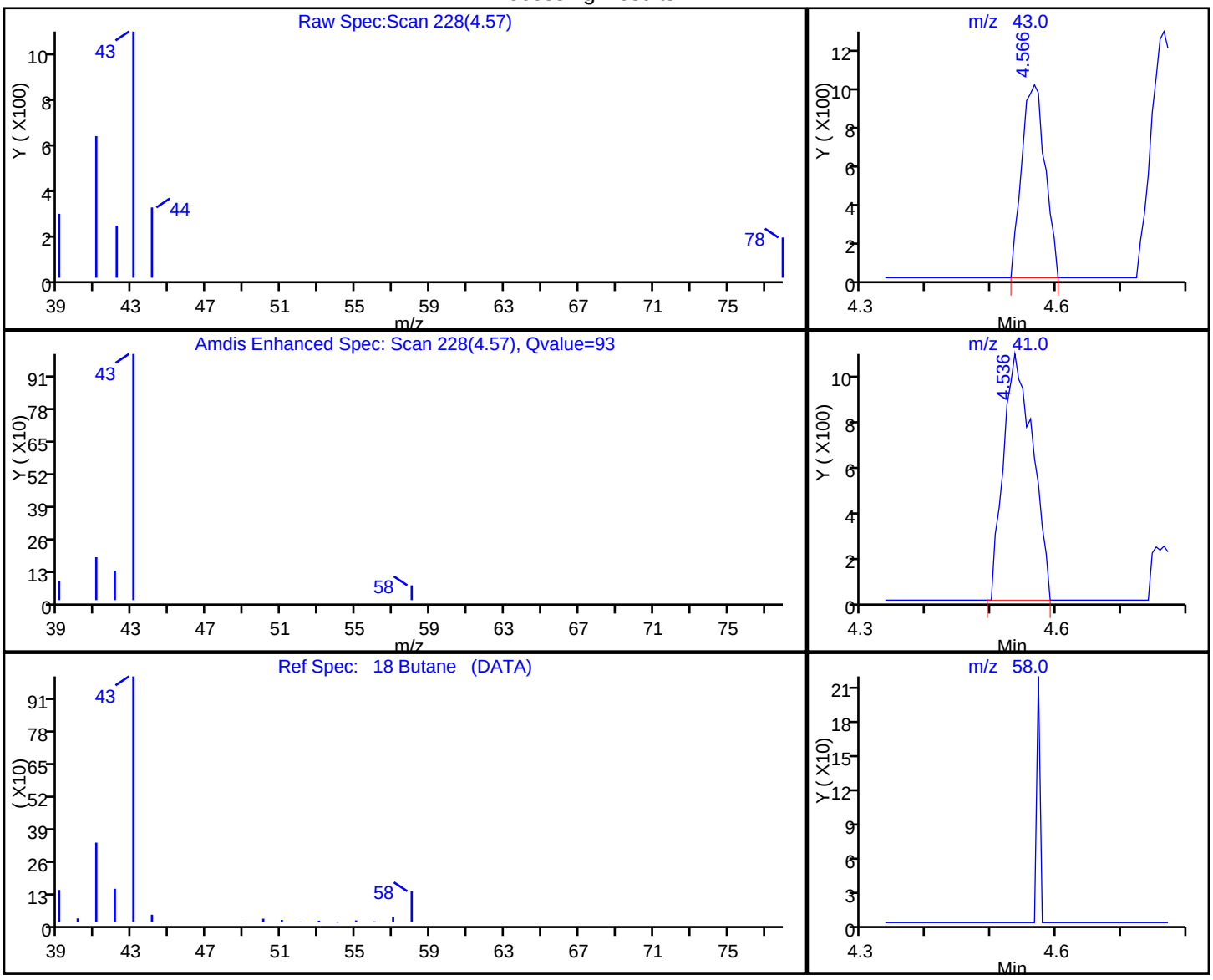
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

18 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
4.57	43.00	2523	0.090956
4.54	41.00	3147	
4.55	58.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

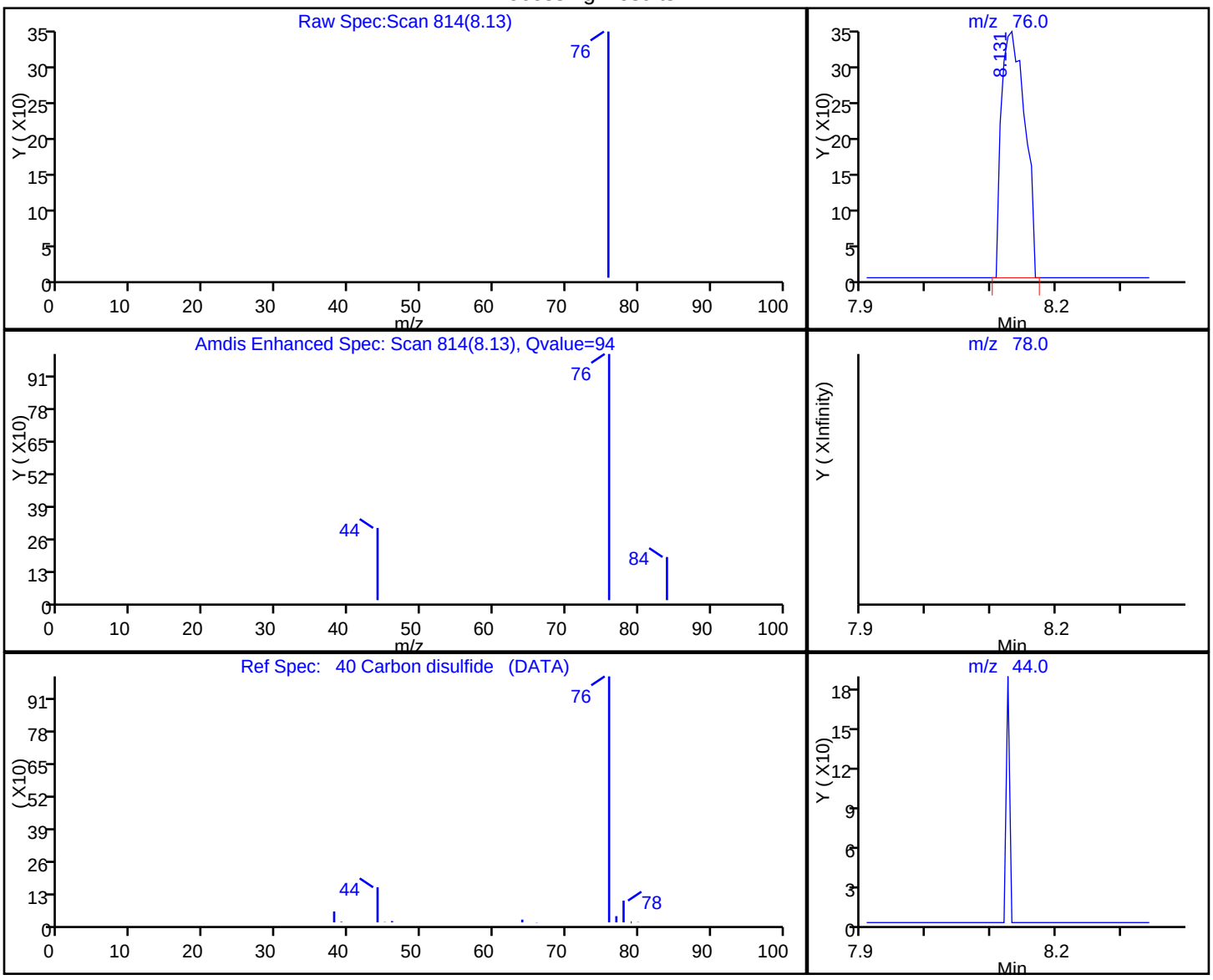
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

40 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.13	76.00	860	0.026569
8.12	78.00	0	
8.12	44.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

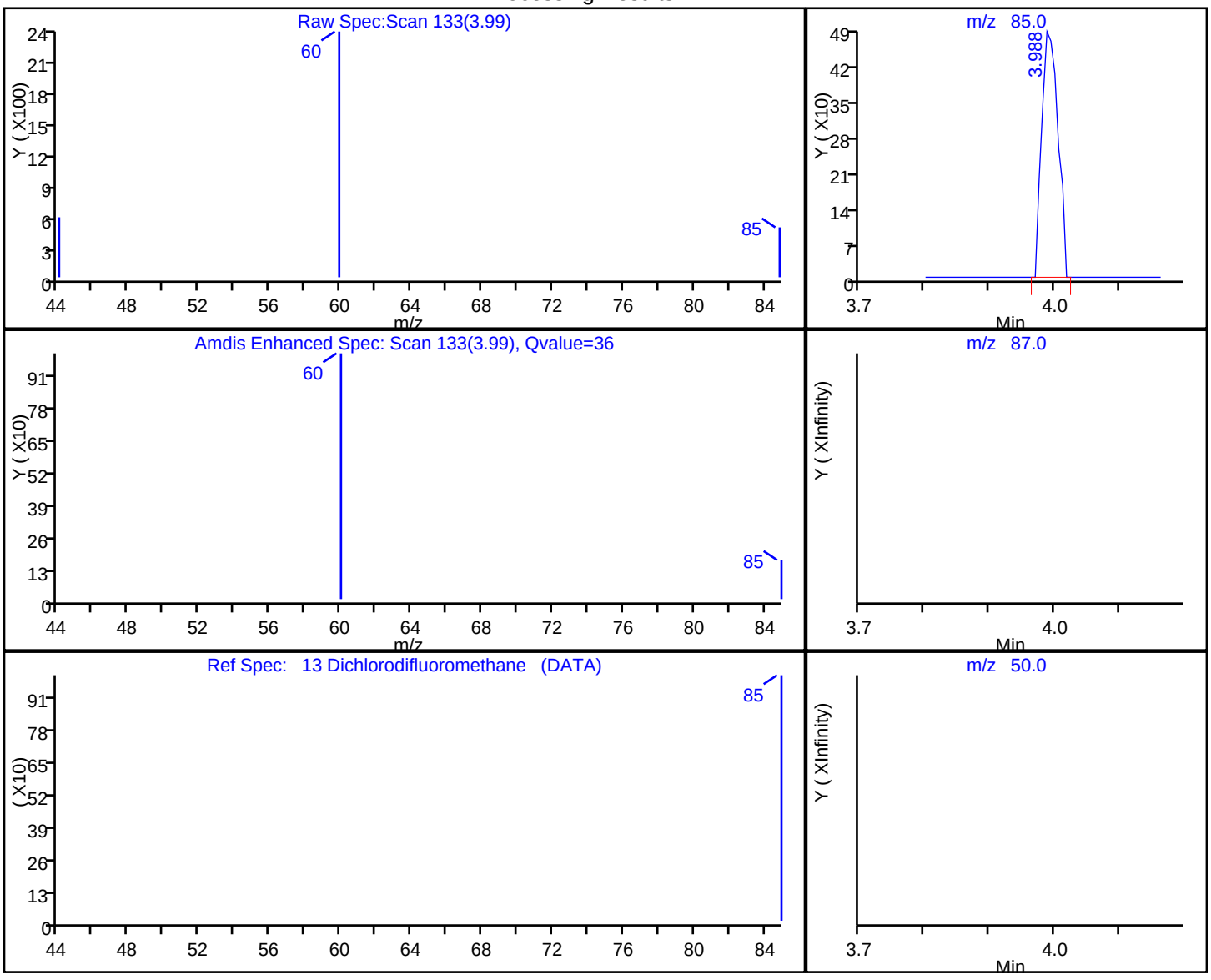
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

13 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
3.99	85.00	847	0.024825
3.98	87.00	0	
3.98	50.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

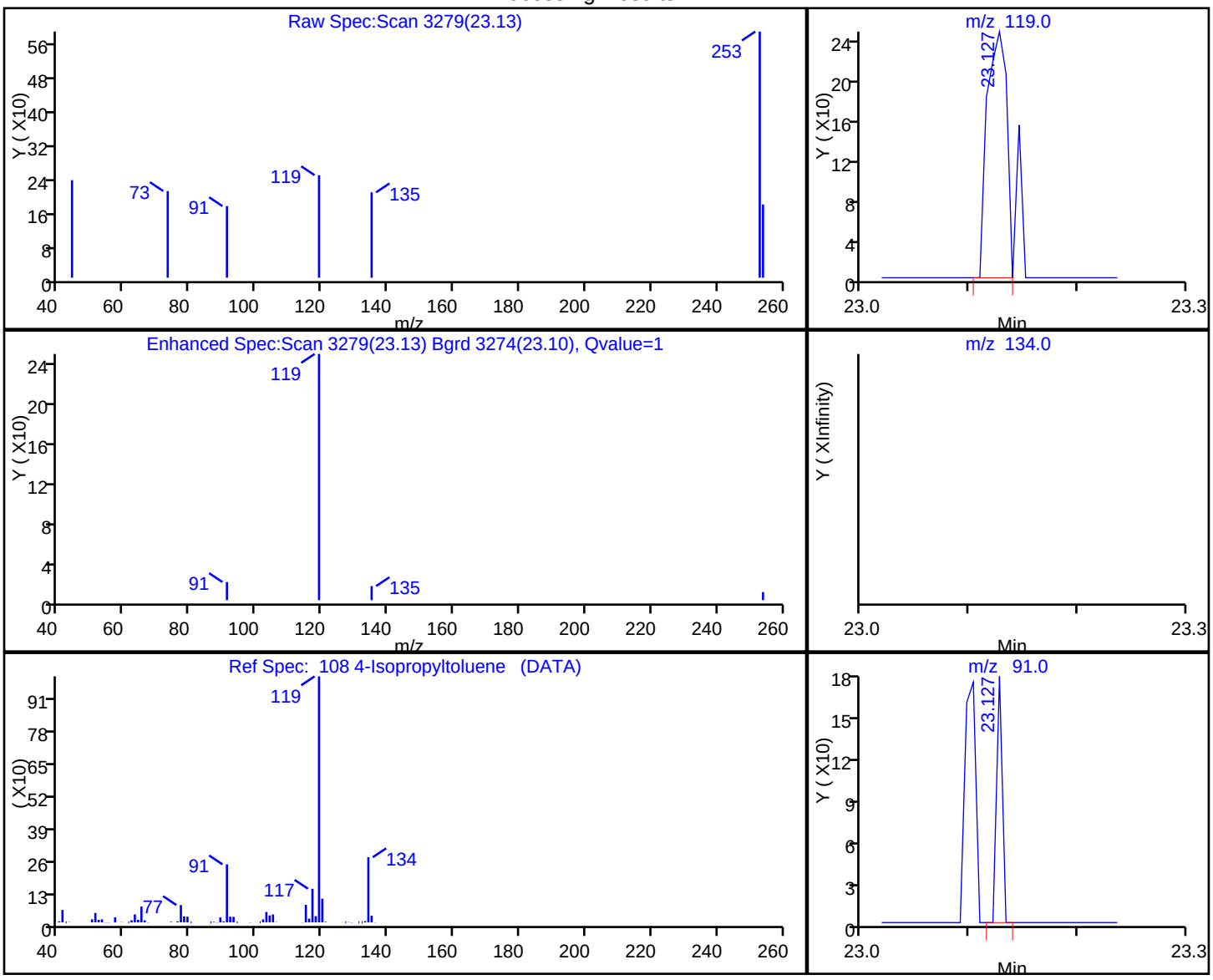
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

108 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
23.13	119.00	308	0.005051
23.13	134.00	0	
23.13	91.00	62	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

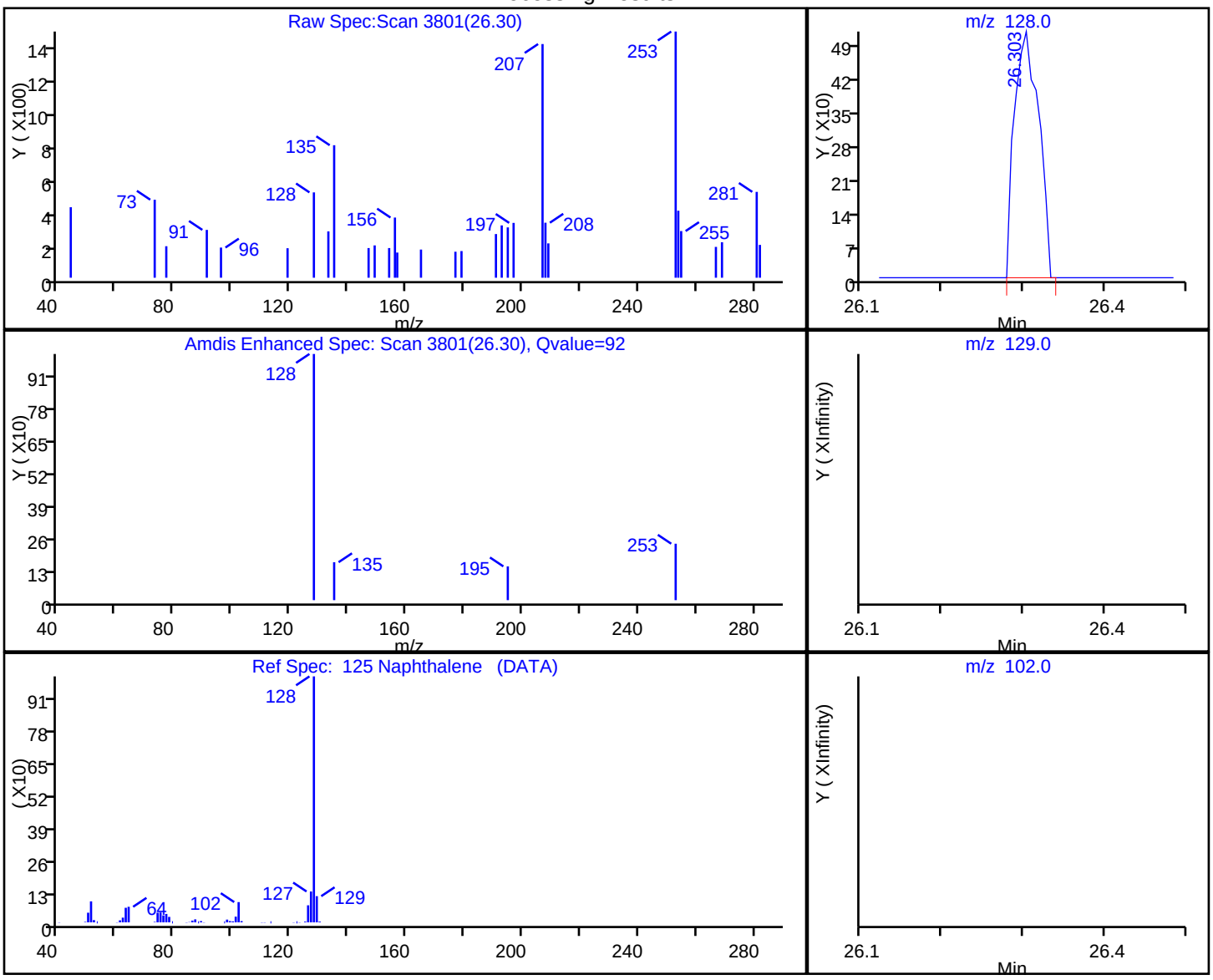
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

125 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
26.30	128.00	1070	0.015820
26.30	129.00	0	
26.30	102.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

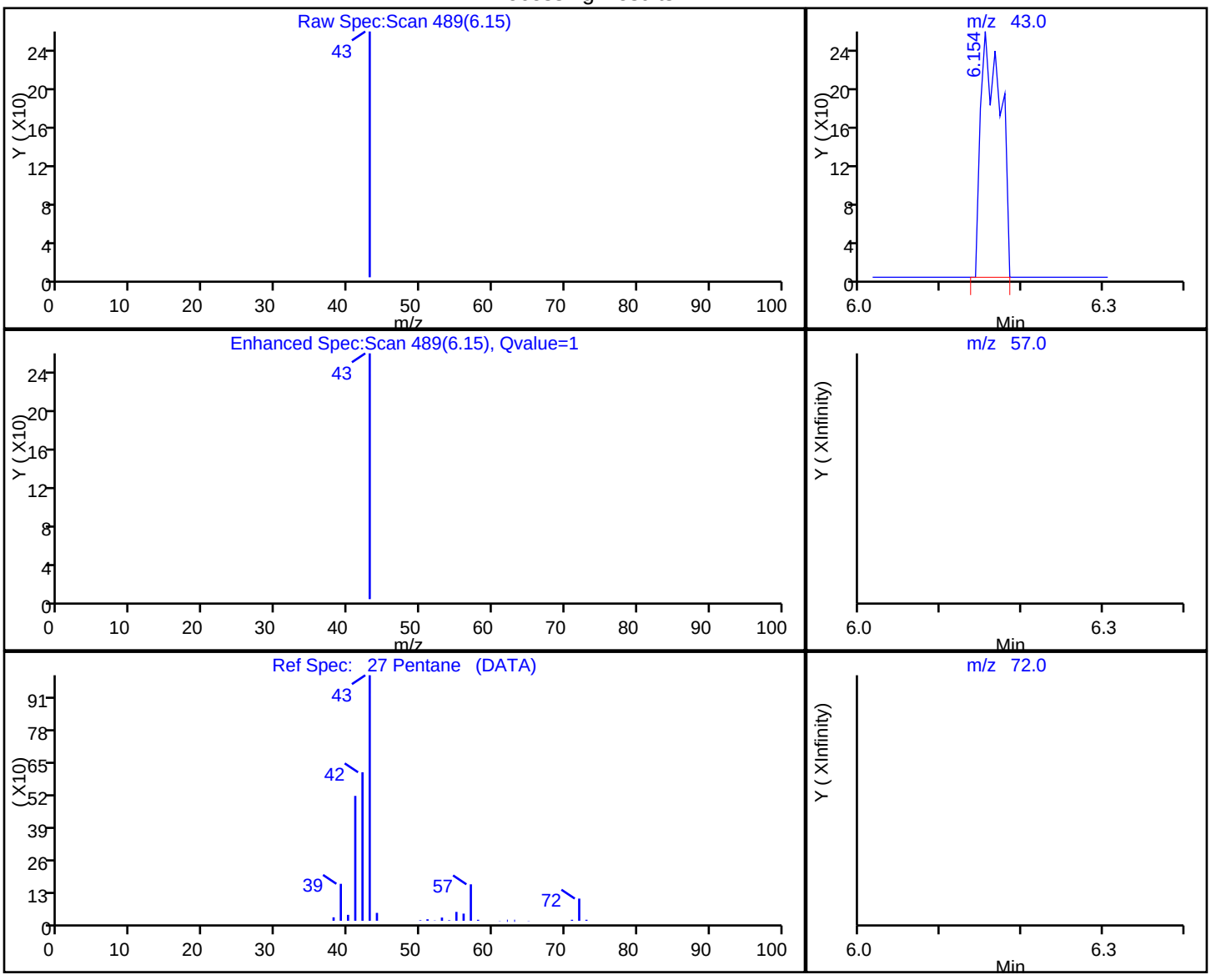
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

27 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
6.15	43.00	435	0.013037
6.16	57.00	0	
6.16	72.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

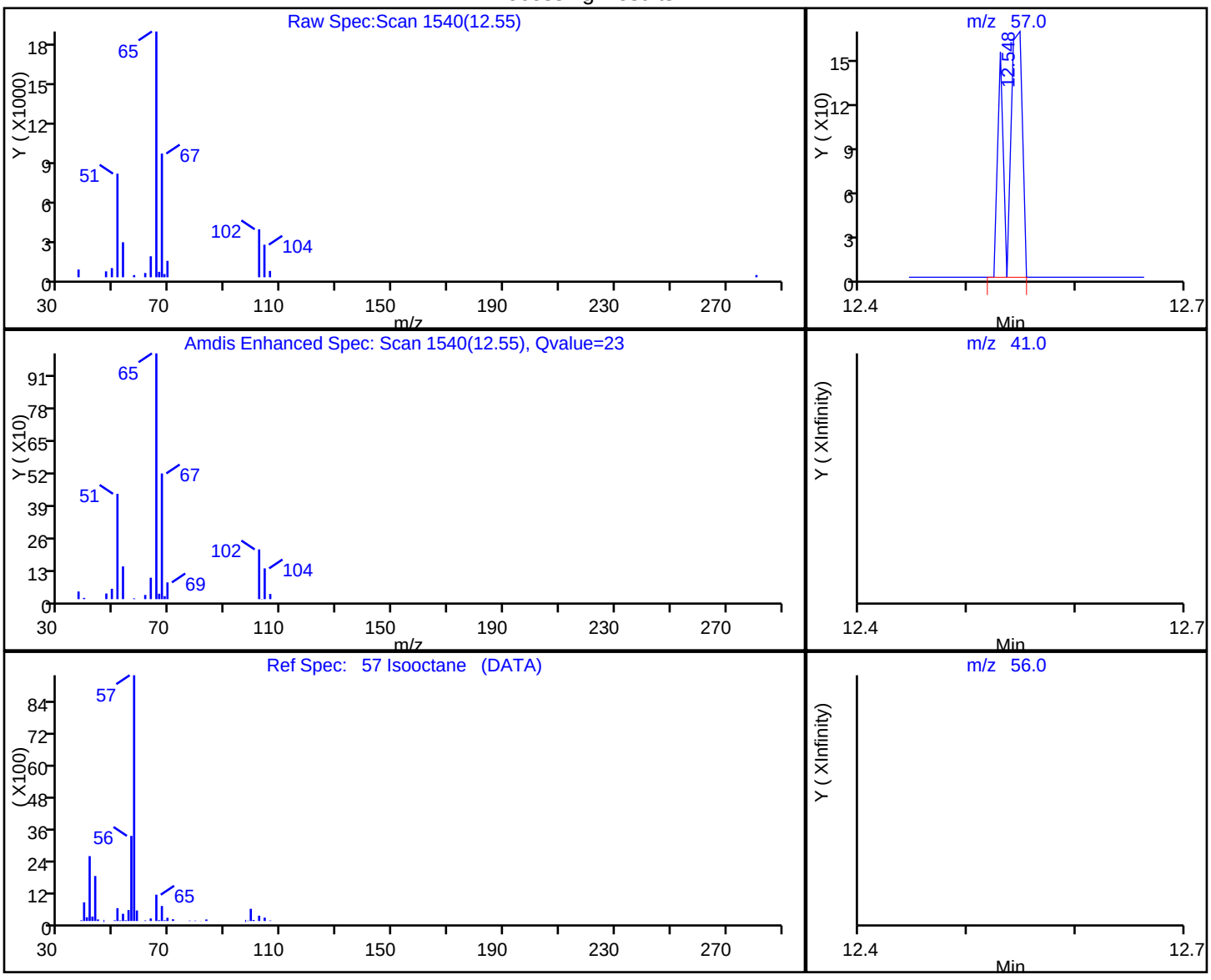
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS2\20180214-54061.b\18021426.D				
Injection Date:	15-Feb-2018 07:36:30	Instrument ID:	ATMS2		
Lims ID:	320-35602-A-1	Lab Sample ID:	320-35602-1		
Client ID:	34001546				
Operator ID:	SV	ALS Bottle#:	15	Worklist Smp#:	41
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

57 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
12.55	57.00	176	0.002180
12.55	41.00	0	
12.55	56.00	0	

Reviewer: vanommens, 15-Feb-2018 10:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34001658 Lab Sample ID: 320-35716-1

Matrix: Air Lab File ID: MS10216A21.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 12:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34001658 Lab Sample ID: 320-35716-1

Matrix: Air Lab File ID: MS10216A21.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 12:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.070	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A21.D
Lims ID: 320-35716-A-1
Client ID: 34001658
Sample Type: Client
Inject. Date: 17-Feb-2018 12:37:30 ALS Bottle#: 3 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-1
Operator ID: SV Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 10:12:14 Calib Date: 16-Feb-2018 18:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A03.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: phanthasena Date: 19-Feb-2018 11:07:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.608	11.607	0.001	78	55942	2.00	
* 2 1,4-Difluorobenzene	114	13.770	13.769	0.001	100	213832	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.462	20.461	0.001	100	163855	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.798	12.797	0.001	78	134372	2.20	
$ 5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	111955	2.08	
$ 6 4-Bromofluorobenzene (Surr	174	23.031	23.024	0.007	97	105399	1.94	
15 Trichlorofluoromethane	101	6.022	6.027	-0.005	94	462	0.002729	7a
18 Acetone	43	6.874	6.892	-0.018	97	7057	0.0705	
22 Methylene Chloride	49	8.159	8.164	-0.005	1	1705	0.0175	7Ma

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

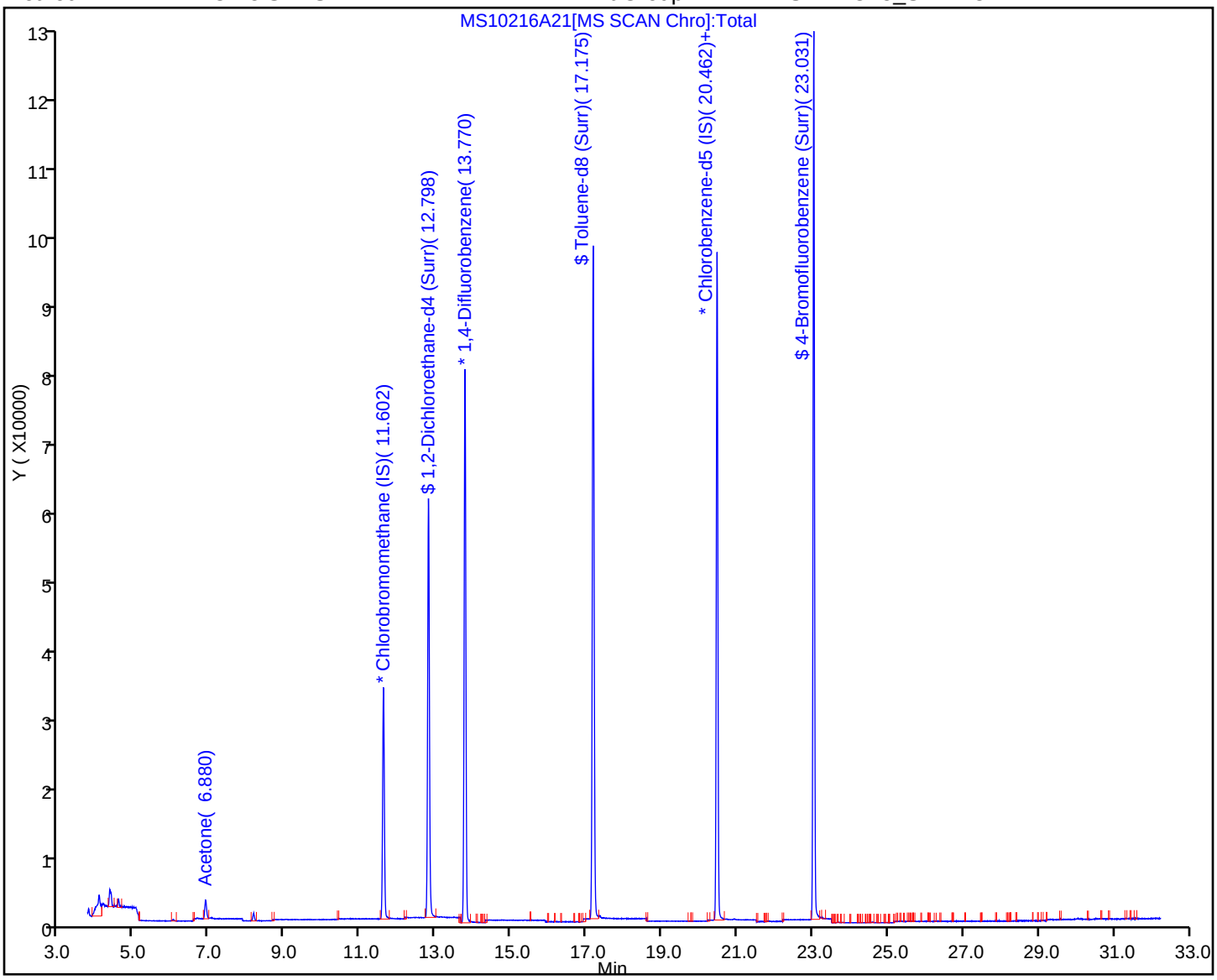
VAMSIS20_00102 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 10:12:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A21.D

Injection Date:	17-Feb-2018 12:37:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-1	Lab Sample ID:	320-35716-1		
Client ID:	34001658				
Operator ID:	SV	ALS Bottle#:	3	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



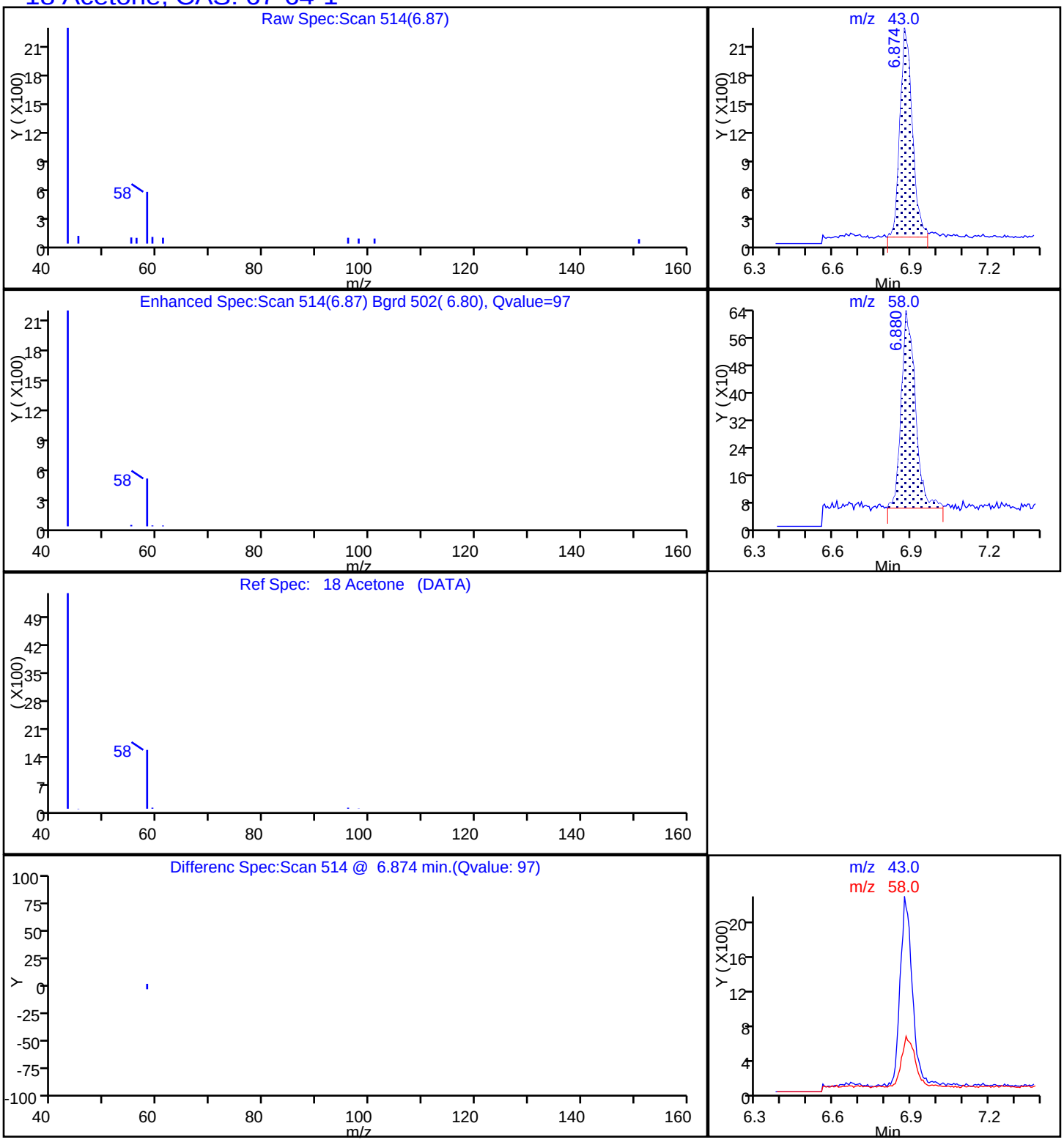
Report Date: 19-Feb-2018 10:12:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A21.D

Injection Date:	17-Feb-2018 12:37:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-1	Lab Sample ID:	320-35716-1		
Client ID:	34001658				
Operator ID:	SV	ALS Bottle#:	3	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



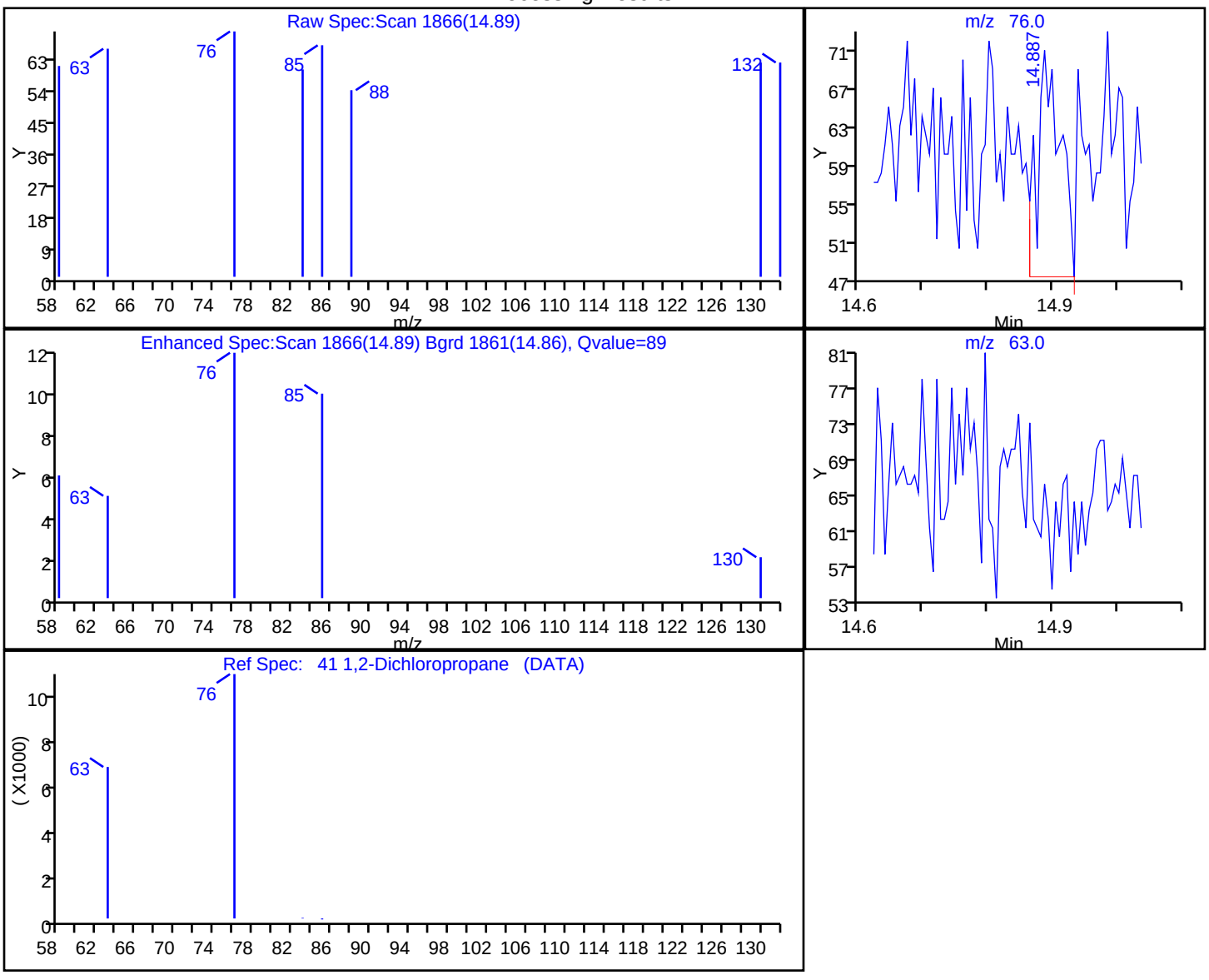
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A21.D				
Injection Date:	17-Feb-2018 12:37:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-1	Lab Sample ID:	320-35716-1		
Client ID:	34001658				
Operator ID:	SV	ALS Bottle#:	3	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

41 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
14.89	76.00	59	0.002546
14.82	63.00	0	

Reviewer: phanthasena, 19-Feb-2018 11:07:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

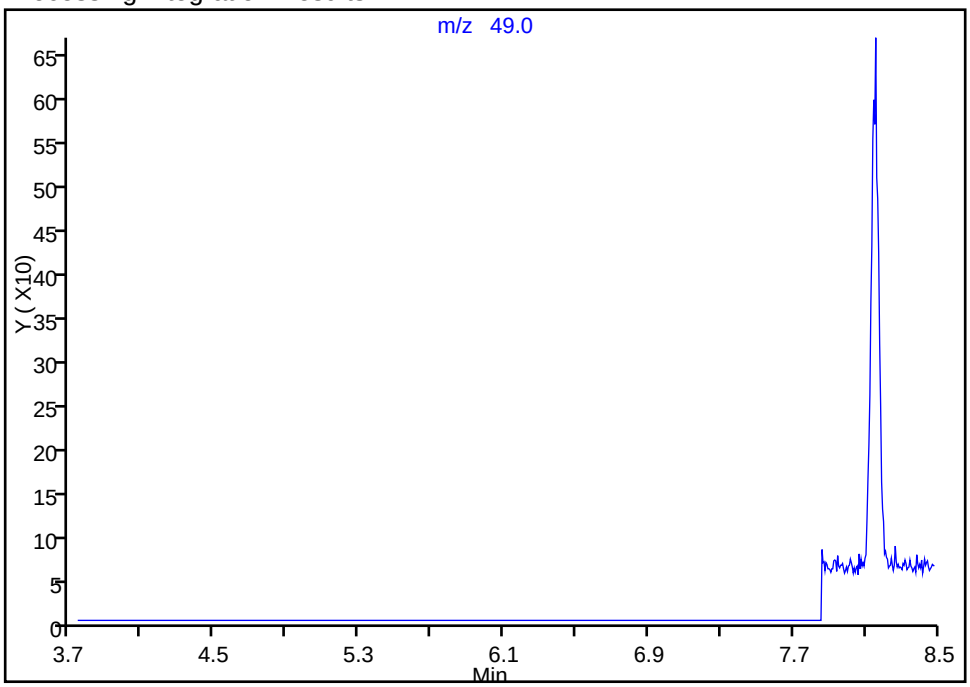
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Injection Date: 17-Feb-2018 12:37:30 Instrument ID: ATMS1
Lims ID: 320-35716-A-1 Lab Sample ID: 320-35716-1
Client ID: 34001658
Operator ID: SV ALS Bottle#: 3 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: TO-15 SIM SIM Limit Group: MSA - TO15_SIM - ICAL
Column: Detector MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

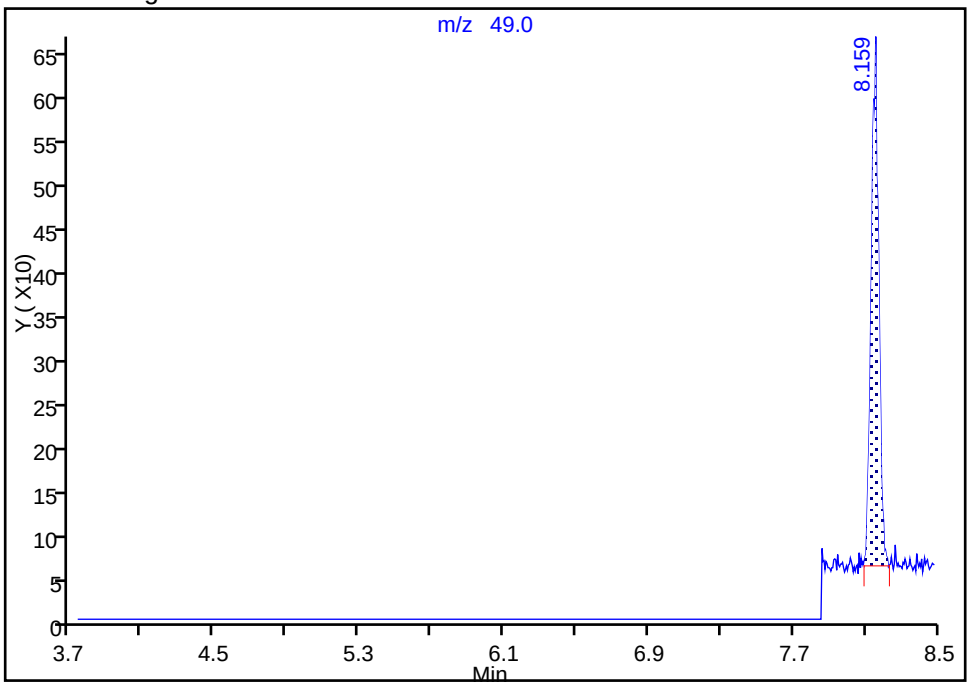
Processing Integration Results

RT: 8.17
Area: 0
Amount: 0
Amount Units: ppb v/v



Manual Integration Results

RT: 8.16
Area: 1705
Amount: 0.017519
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:06:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

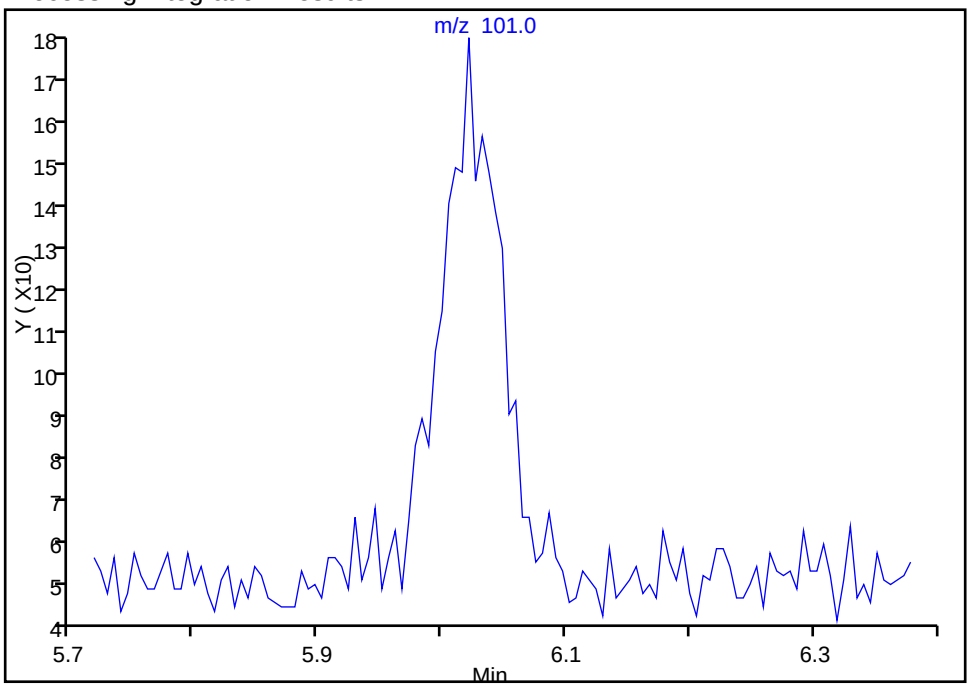
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A21.D				
Injection Date:	17-Feb-2018 12:37:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-1	Lab Sample ID:	320-35716-1		
Client ID:	34001658				
Operator ID:	SV	ALS Bottle#:	3	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

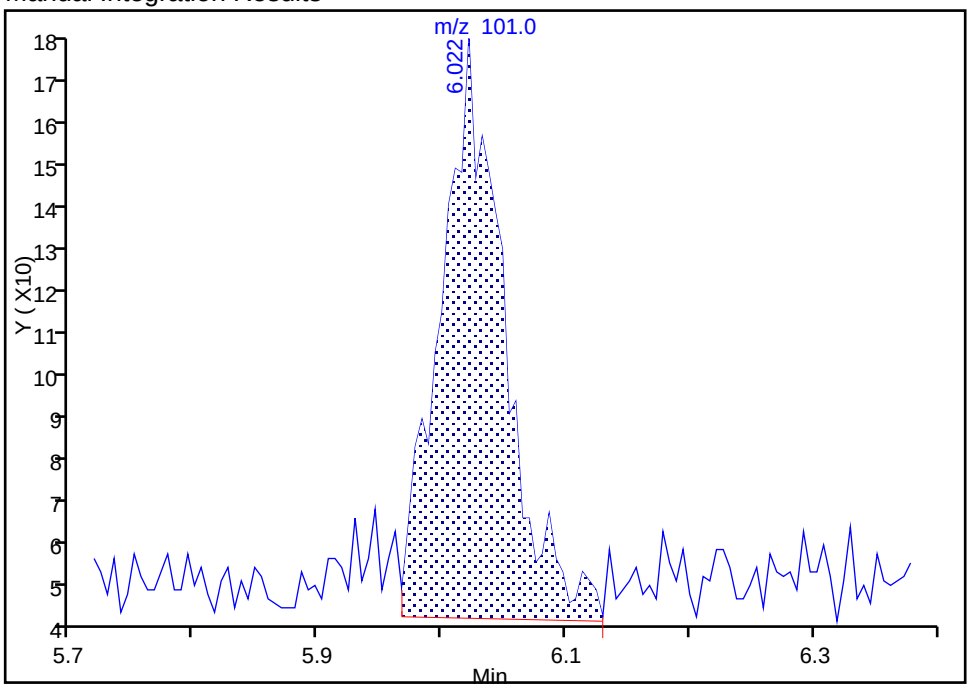
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.02
Area: 462
Amount: 0.002729
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:06:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8431 Lab Sample ID: 320-35716-2

Matrix: Air Lab File ID: MS10216A22.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.011	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8431 Lab Sample ID: 320-35716-2

Matrix: Air Lab File ID: MS10216A22.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.15	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D
Lims ID: 320-35716-A-2
Client ID: 8431
Sample Type: Client
Inject. Date: 17-Feb-2018 13:38:30 ALS Bottle#: 4 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-2
Operator ID: SV Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 10:12:14 Calib Date: 16-Feb-2018 18:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A03.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: phanthasena Date: 19-Feb-2018 11:08:30

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	11.607	11.607	0.000	77	53139	2.00	
*	2 1,4-Difluorobenzene	114	13.773	13.769	0.004	100	215932	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.461	20.461	0.000	100	156673	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	12.805	12.797	0.008	78	140233	2.27	
$	5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	109799	2.02	
$	6 4-Bromofluorobenzene (Surr	174	23.031	23.024	0.007	97	102016	1.96	
	15 Trichlorofluoromethane	101	6.032	6.027	0.005	98	571	0.003550	7a
	18 Acetone	43	6.880	6.892	-0.012	98	14327	0.1506	
	22 Methylene Chloride	49	8.170	8.164	0.006	68	1958	0.0212	7a
	38 Benzene	78	13.136	13.113	0.023	100	1064	0.0110	
	43 1,4-Dioxane	88	15.337	15.331	0.006	1	292	0.0134	
	46 Toluene	91	17.354	17.342	0.012	99	1373	0.007500	7a
	55 Ethylbenzene	91	20.724	20.724	0.000	81	304	0.001375	7a
	56 m-Xylene & p-Xylene	91	20.909	20.909	0.000	99	680	0.003238	7a
	57 o-Xylene	91	21.814	21.818	-0.004	71	209	0.000969	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

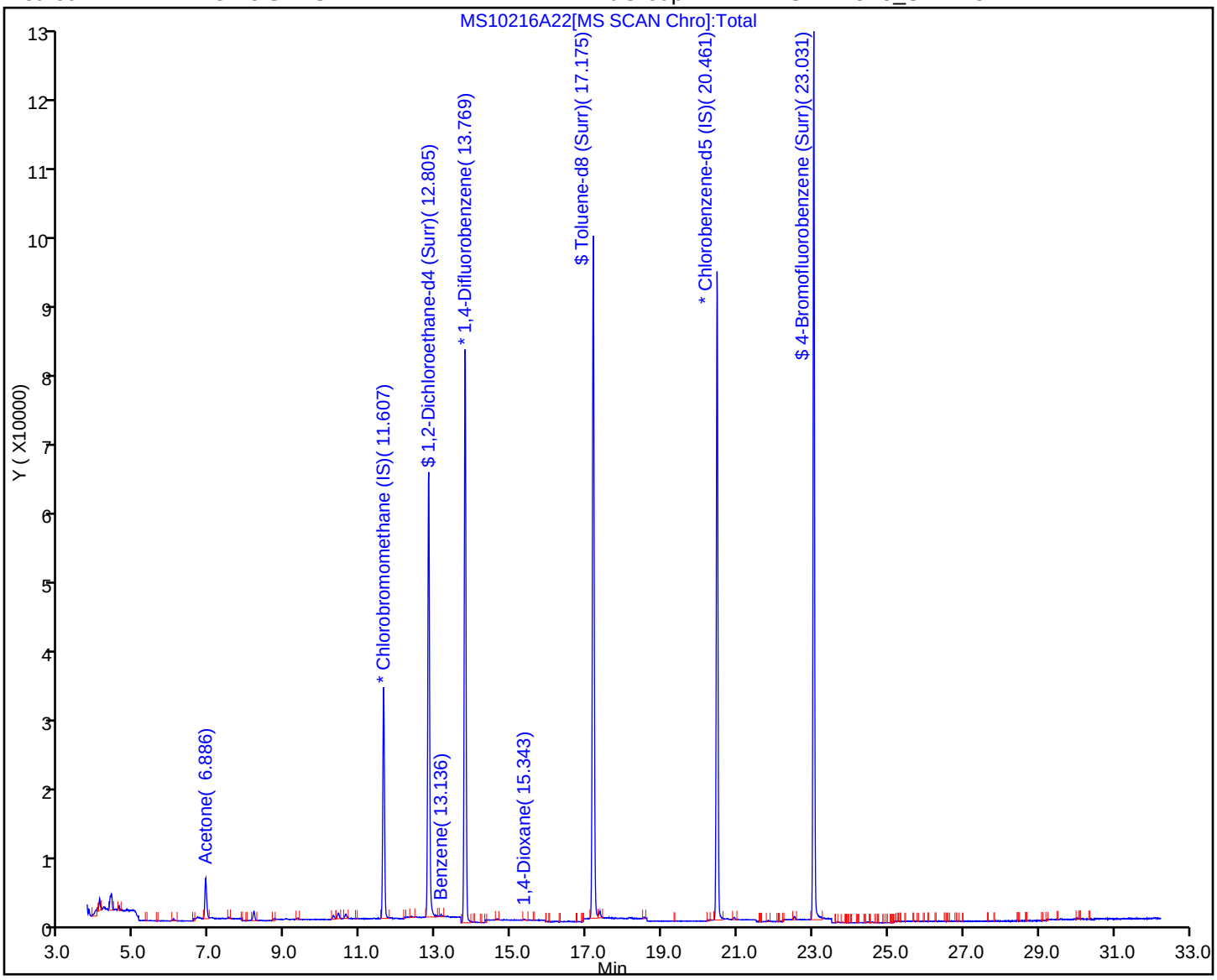
VAMSIS20_00102 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 10:12:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D

Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



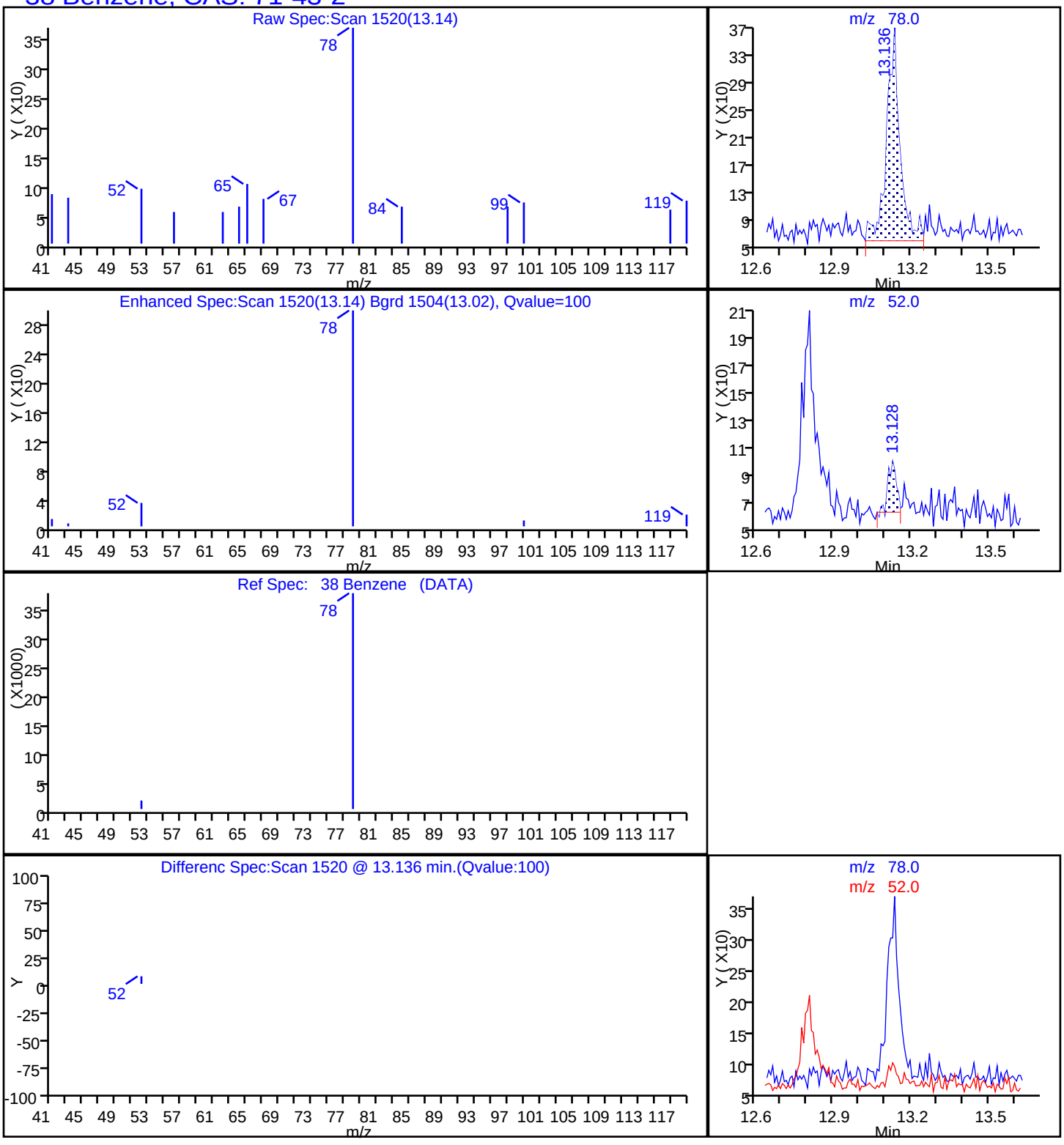
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TestAmerica Sacramento

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Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



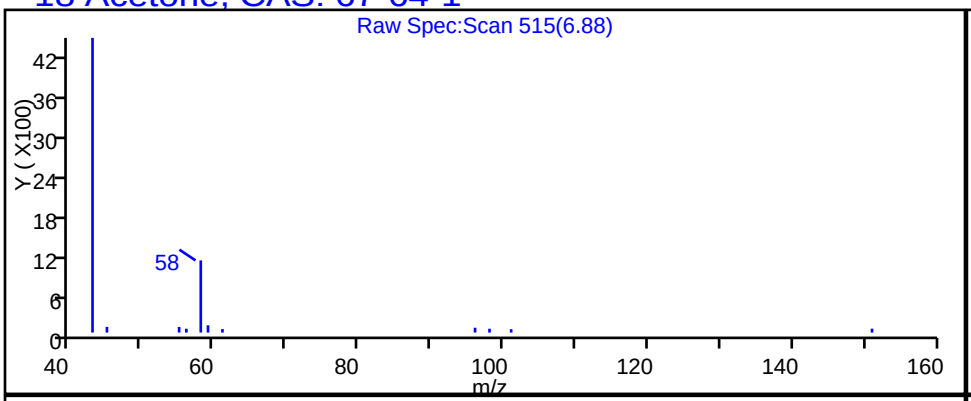
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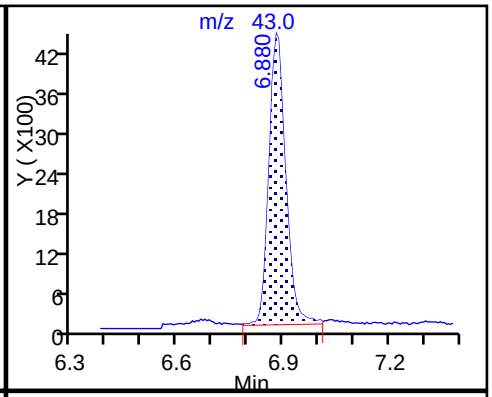
TestAmerica Sacramento

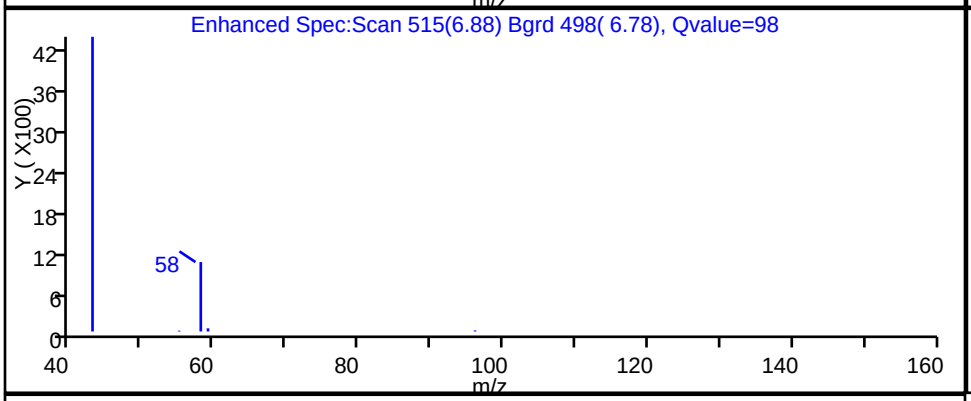
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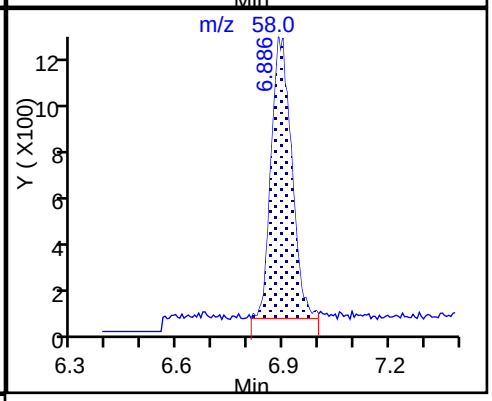
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Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

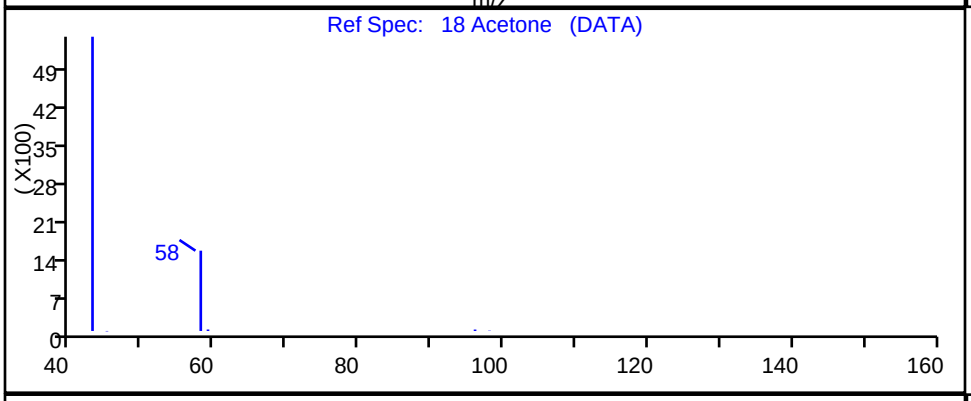
18 Acetone, CAS: 67-64-1

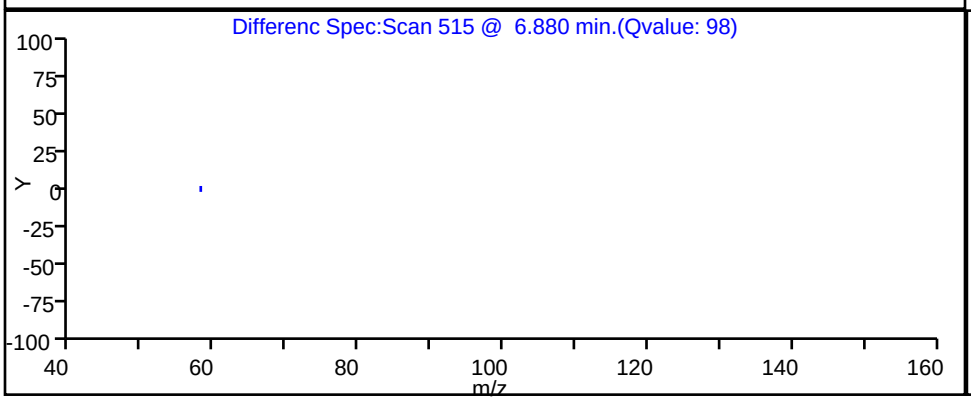


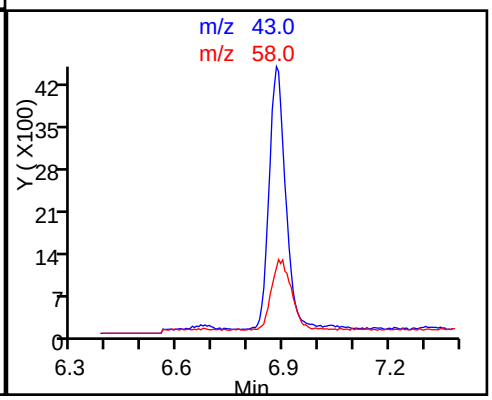












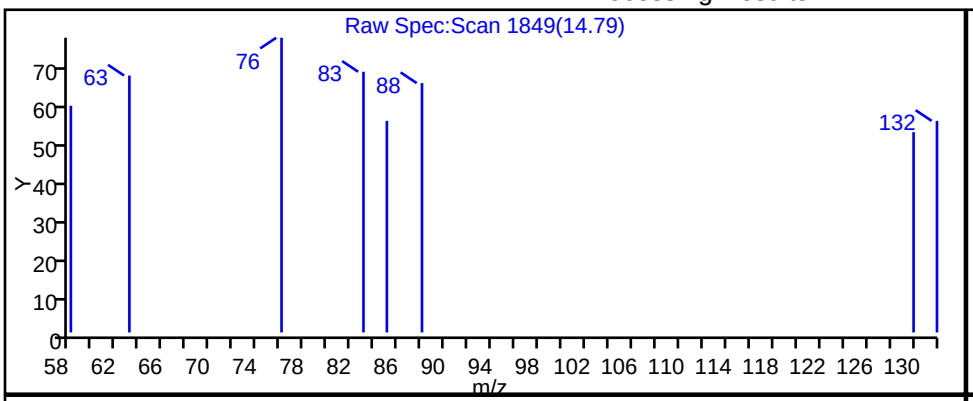
User Disabled Compound Report

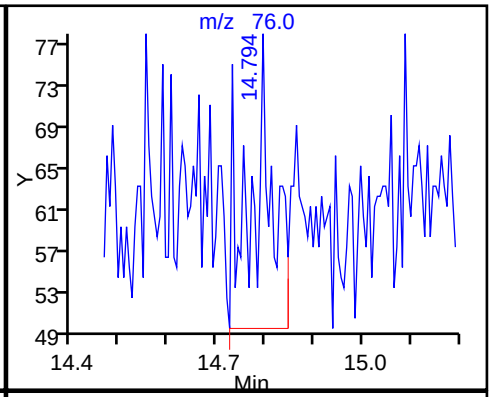
TestAmerica Sacramento

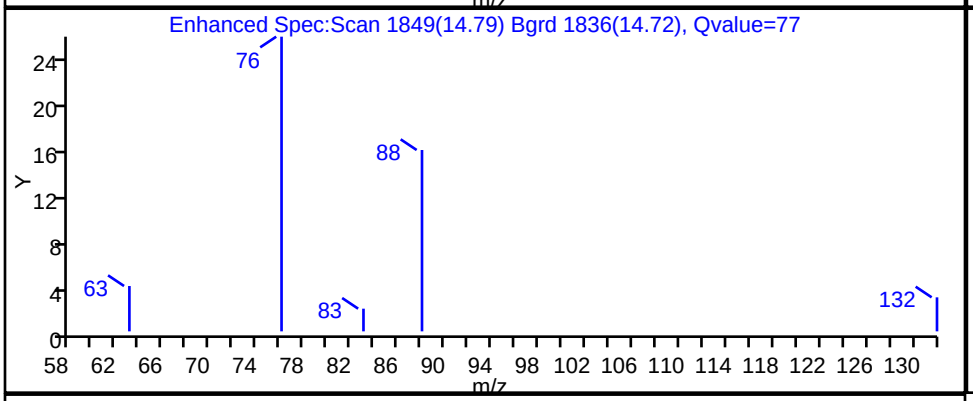
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Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

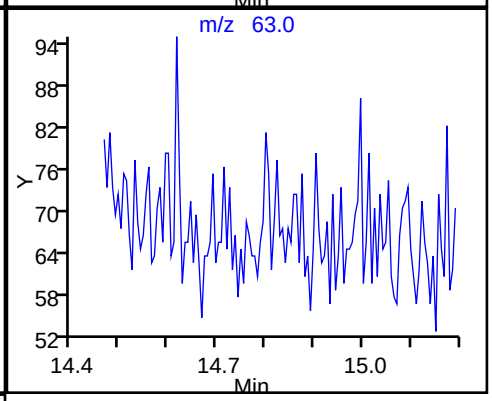
41 1,2-Dichloropropane, CAS: 78-87-5

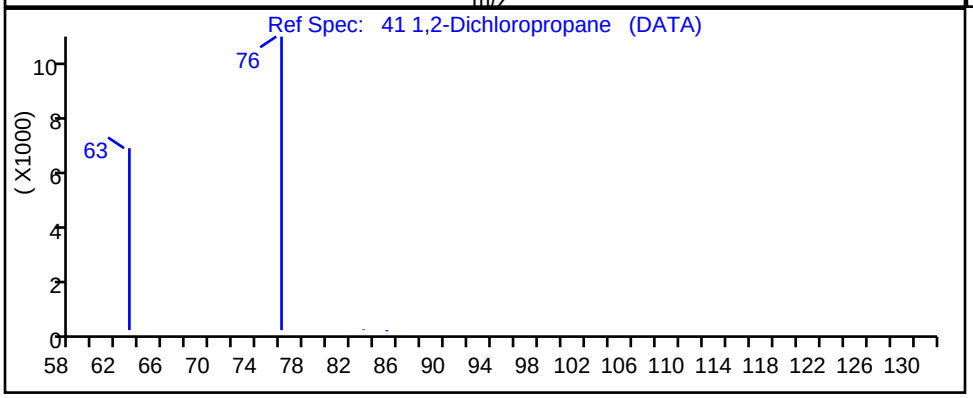
Processing Results











RT	Mass	Response	Amount
14.79	76.00	88	0.003760
14.82	63.00	0	

Reviewer: phanthasena, 19-Feb-2018 11:08:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

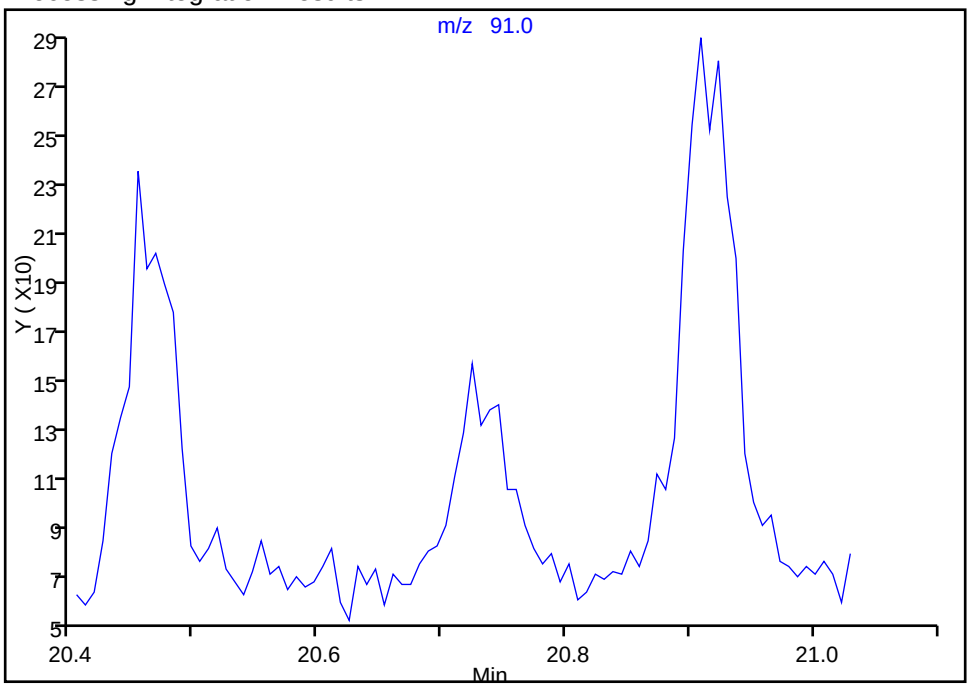
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D				
Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

55 Ethylbenzene, CAS: 100-41-4

Signal: 1

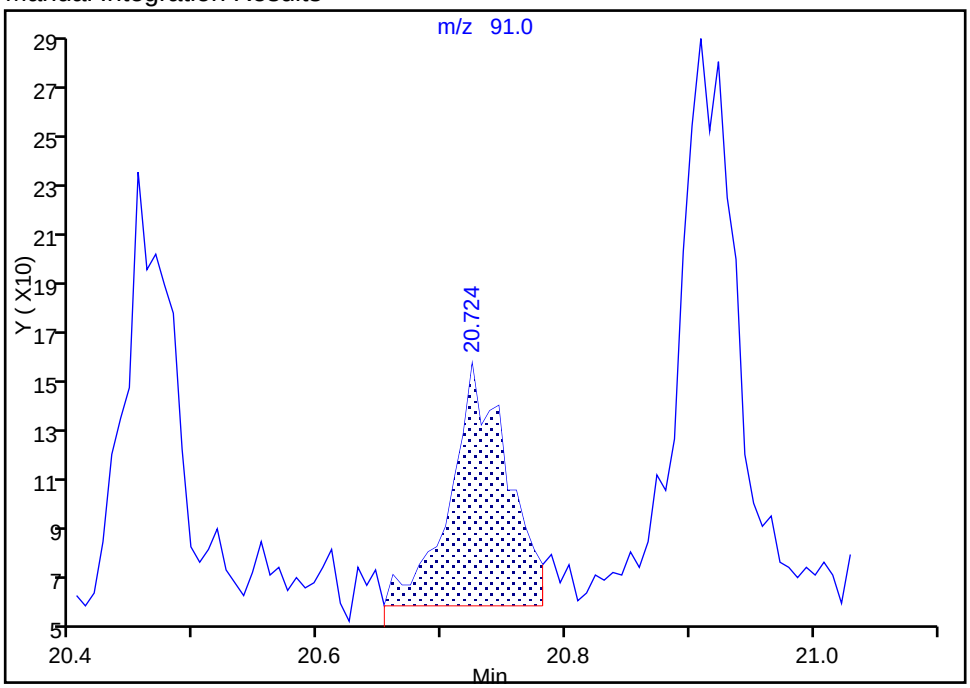
Not Detected
Expected RT: 20.72

Processing Integration Results



Manual Integration Results

RT: 20.72
Area: 304
Amount: 0.001375
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:07:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

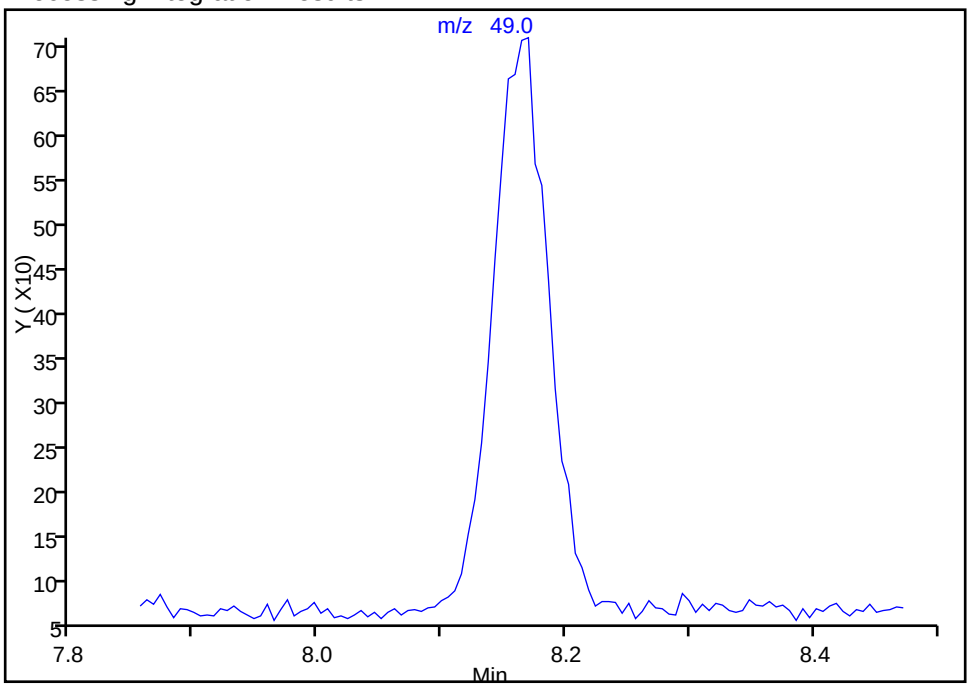
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Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

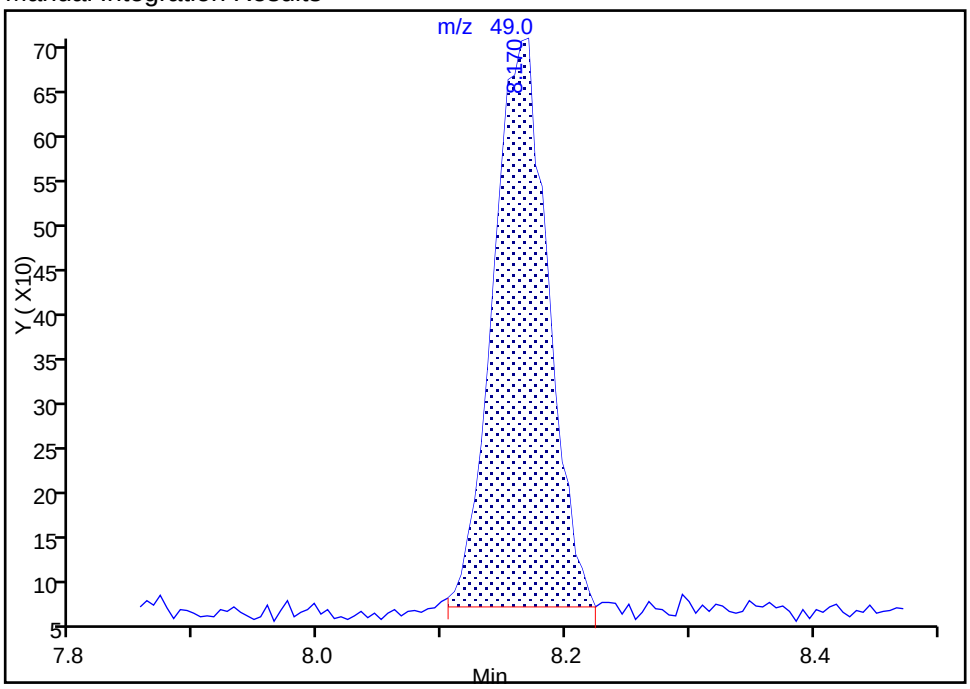
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.17
Area: 1958
Amount: 0.021180
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:08:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

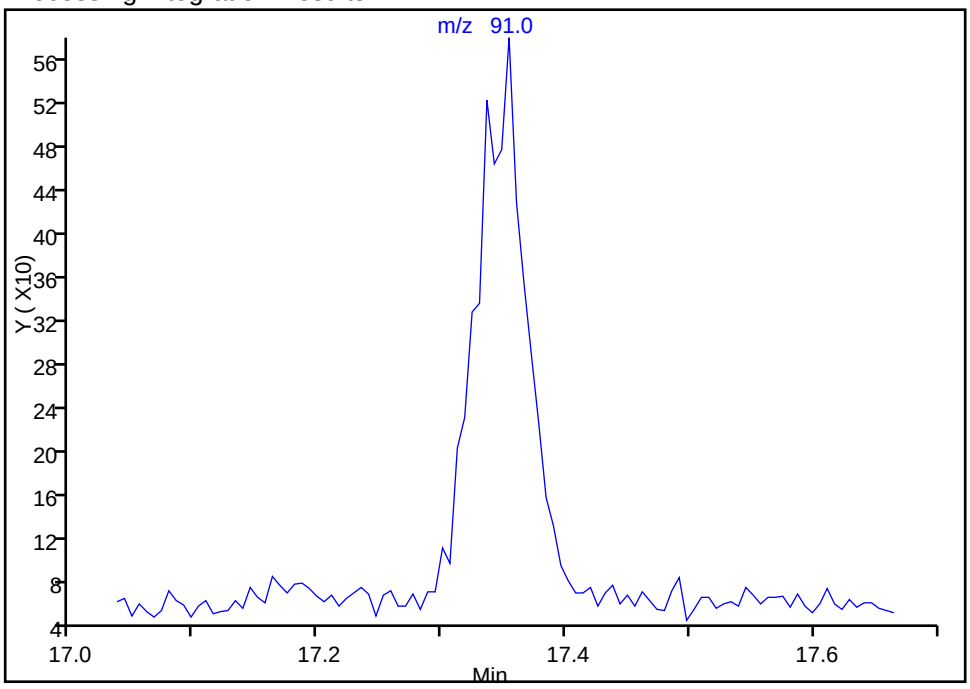
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D				
Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

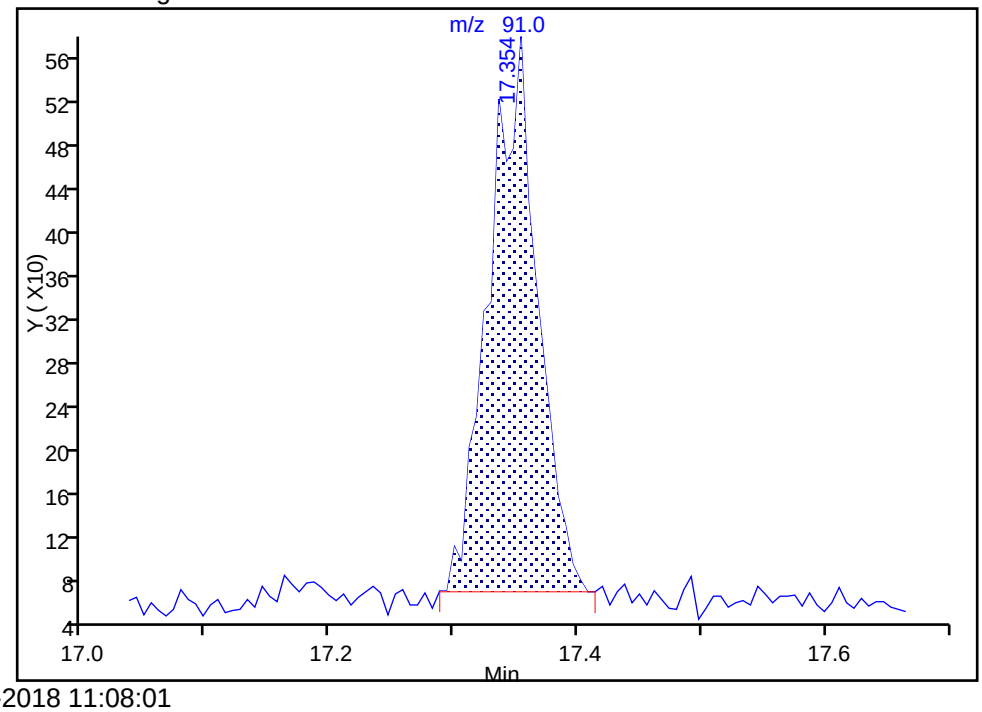
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 1373
Amount: 0.007500
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:08:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

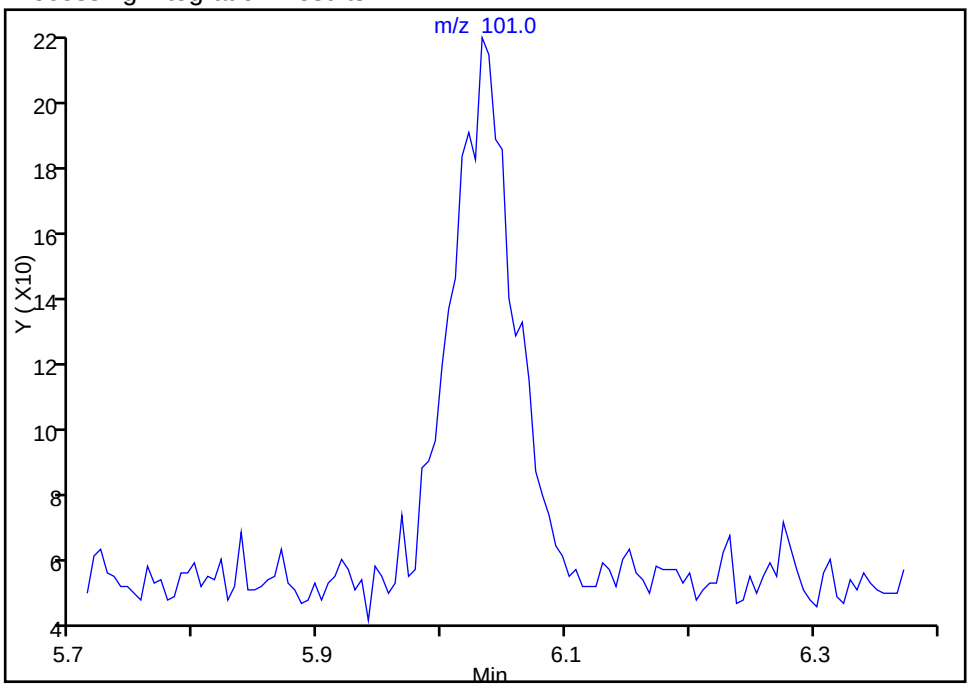
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D				
Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

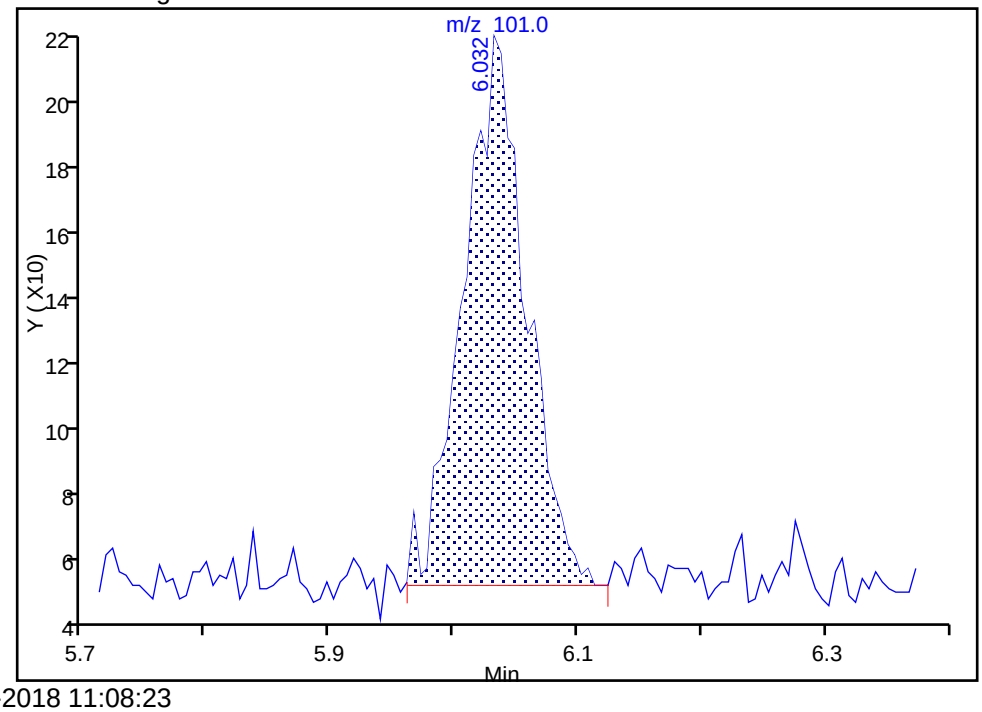
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 571
Amount: 0.003550
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:08:23
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

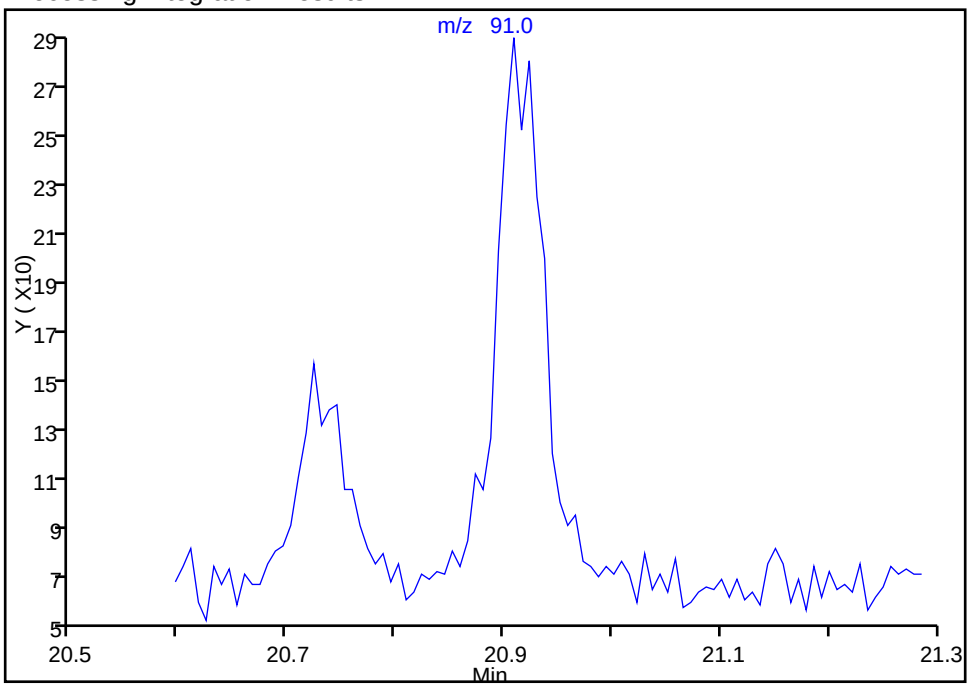
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D				
Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

56 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

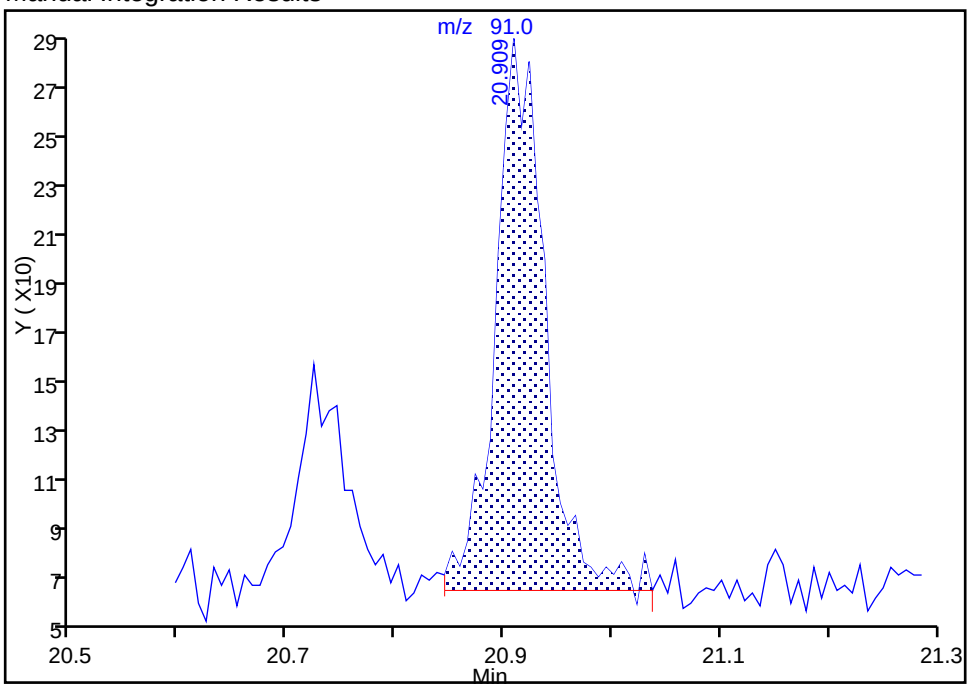
Not Detected
Expected RT: 20.91

Processing Integration Results



Manual Integration Results

RT: 20.91
Area: 680
Amount: 0.003238
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:07:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

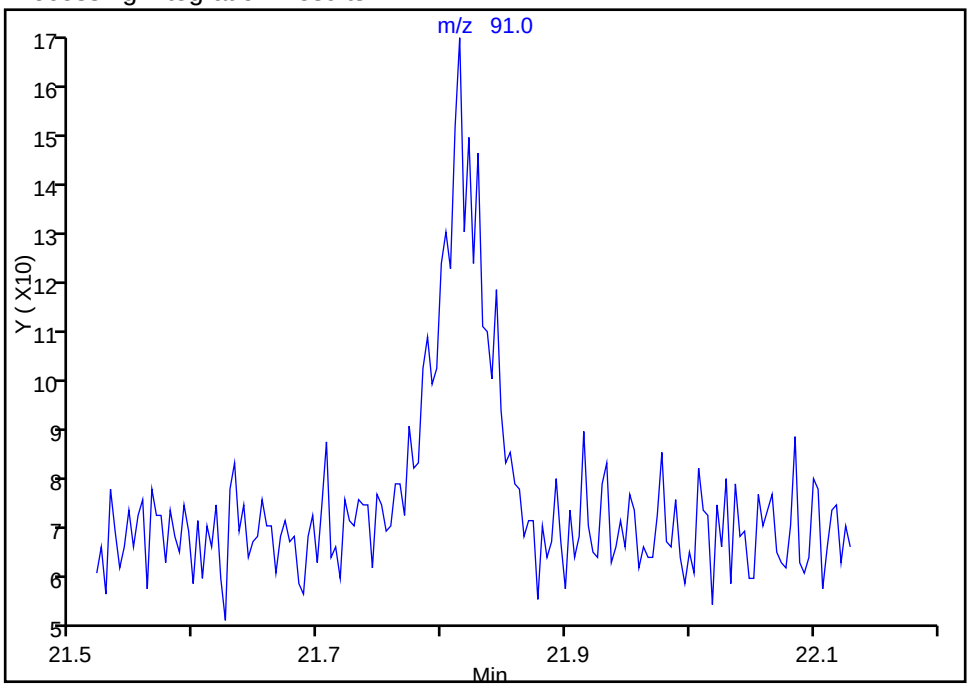
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A22.D				
Injection Date:	17-Feb-2018 13:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-2	Lab Sample ID:	320-35716-2		
Client ID:	8431				
Operator ID:	SV	ALS Bottle#:	4	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

57 o-Xylene, CAS: 95-47-6

Signal: 1

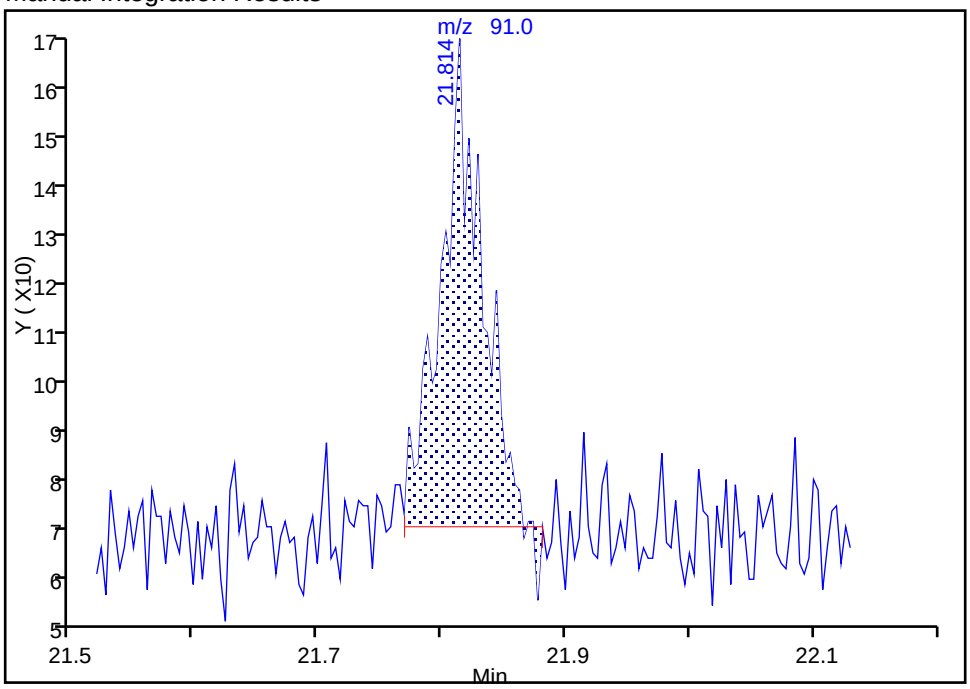
Not Detected
Expected RT: 21.82

Processing Integration Results



Manual Integration Results

RT: 21.81
Area: 209
Amount: 0.000969
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:07:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000465 Lab Sample ID: 320-35716-4

Matrix: Air Lab File ID: MS10216A23.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.011	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.076		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000465 Lab Sample ID: 320-35716-4

Matrix: Air Lab File ID: MS10216A23.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D
Lims ID: 320-35716-A-4
Client ID: 34000465
Sample Type: Client
Inject. Date: 17-Feb-2018 14:38:30 ALS Bottle#: 5 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-4
Operator ID: SV Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 10:12:14 Calib Date: 16-Feb-2018 18:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A03.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: phanthasena Date: 19-Feb-2018 11:09:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.613	11.607	0.006	78	53869	2.00	
* 2 1,4-Difluorobenzene	114	13.773	13.769	0.004	100	209597	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.461	20.461	0.000	100	155490	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.805	12.797	0.008	62	129454	2.16	
$ 5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	109746	2.08	
$ 6 4-Bromofluorobenzene (Surr	174	23.030	23.024	0.006	97	100162	1.94	
15 Trichlorofluoromethane	101	6.043	6.027	0.016	98	4161	0.0255	
18 Acetone	43	6.880	6.892	-0.012	99	62376	0.6467	a
19 1,1,2-Trichloro-1,2,2-trif	101	7.054	7.036	0.018	98	6397	0.0757	
22 Methylene Chloride	49	8.170	8.164	0.006	61	2195	0.0234	7a
38 Benzene	78	13.143	13.113	0.030	100	1038	0.0111	
46 Toluene	91	17.354	17.342	0.012	95	1763	0.0099	7a
56 m-Xylene & p-Xylene	91	20.909	20.909	0.000	99	771	0.003699	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

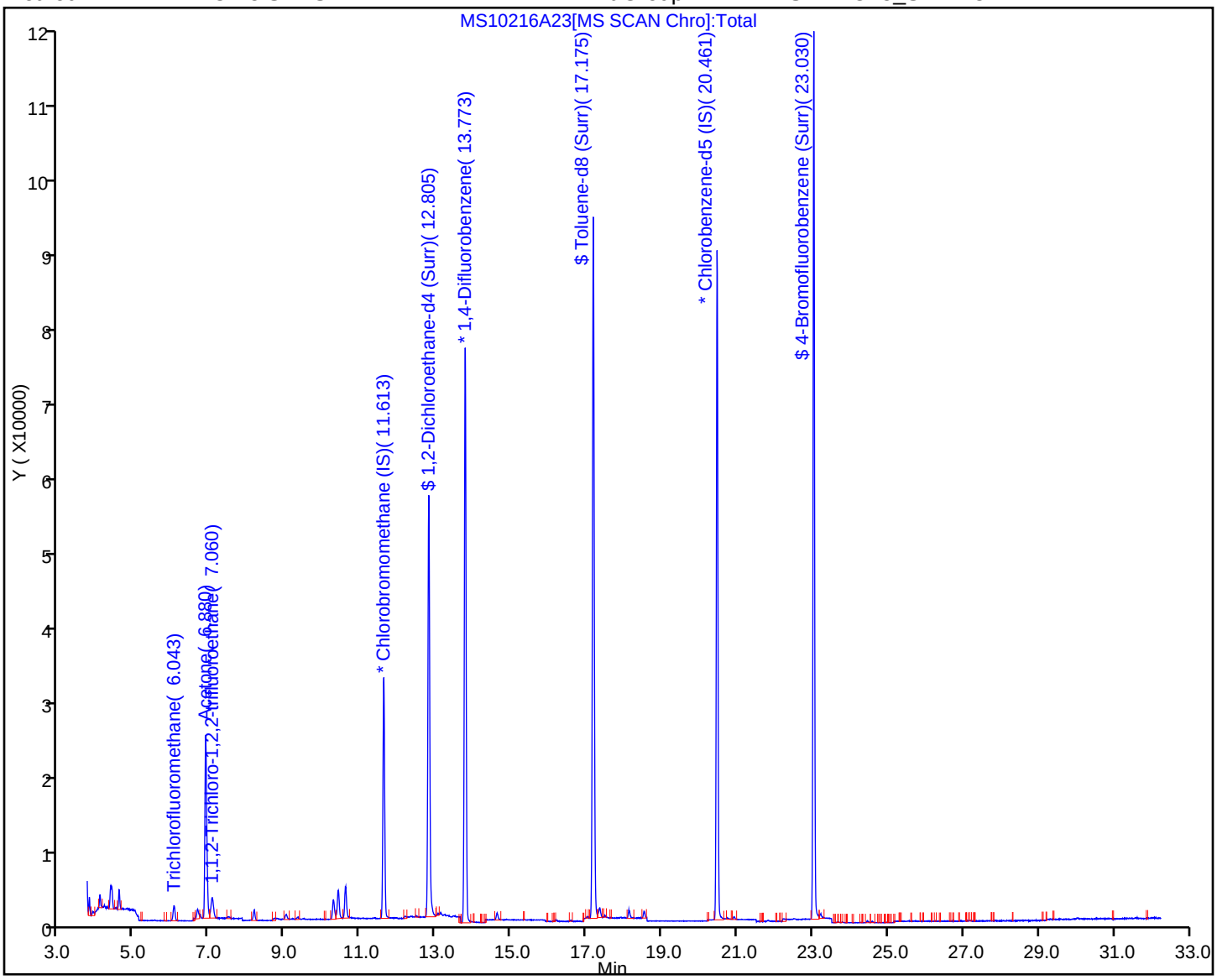
VAMSIS20_00102 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 10:12:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D

Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



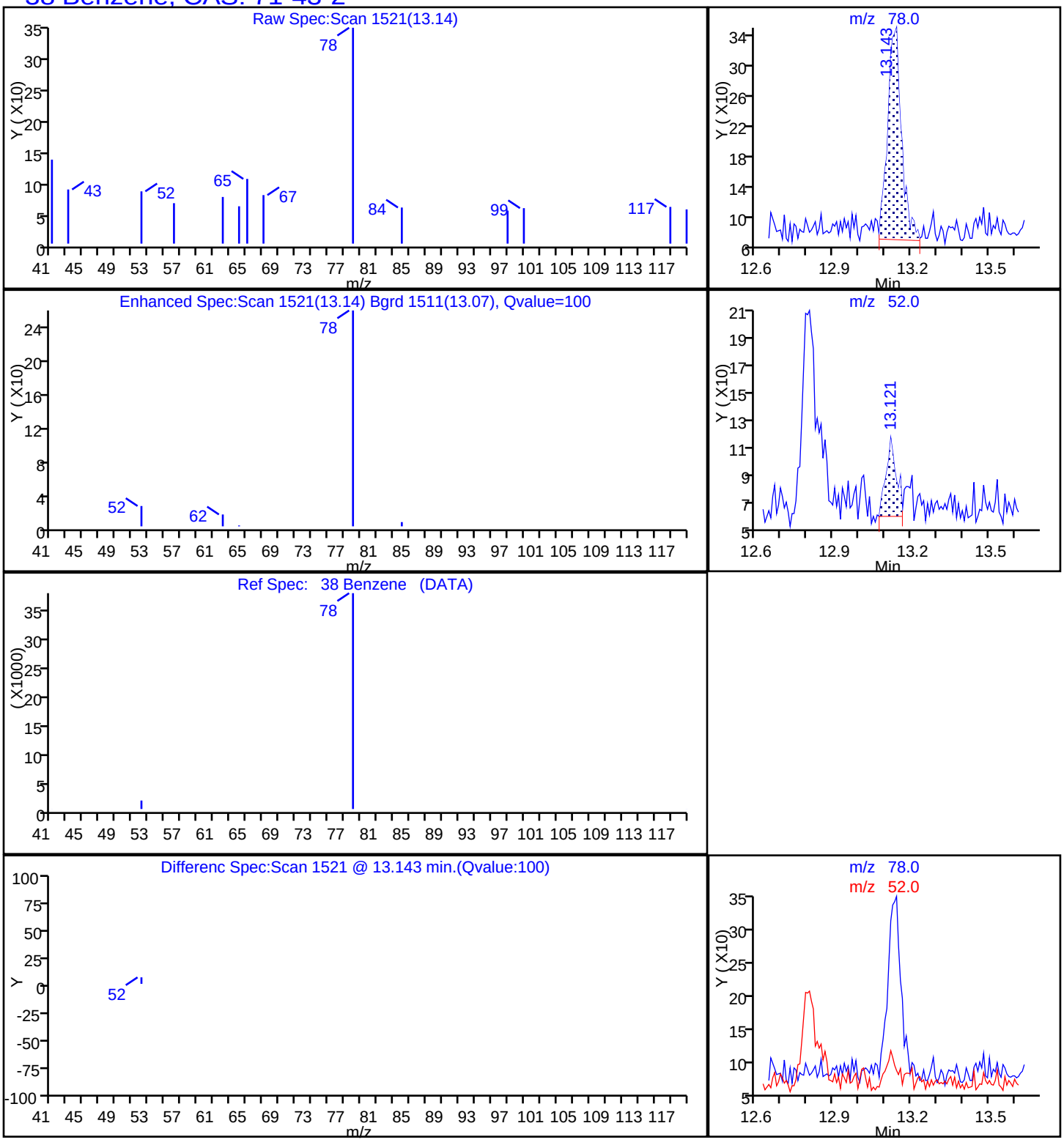
Report Date: 19-Feb-2018 10:12:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D

Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



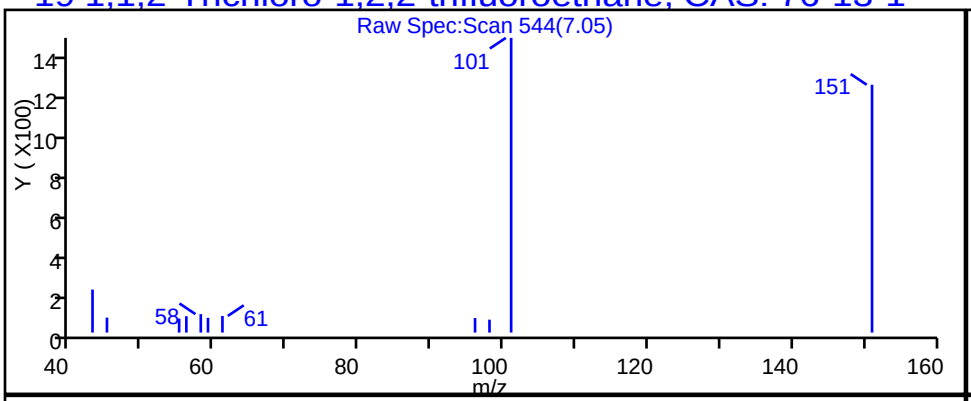
Report Date: 19-Feb-2018 10:12:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

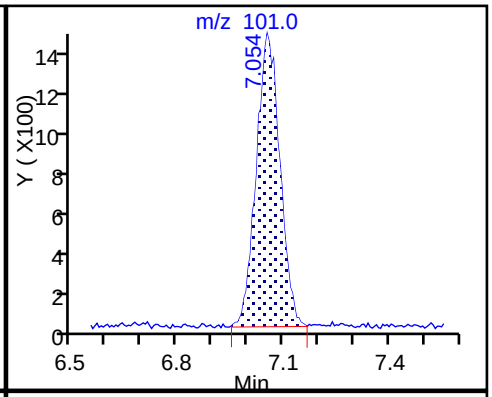
TestAmerica Sacramento

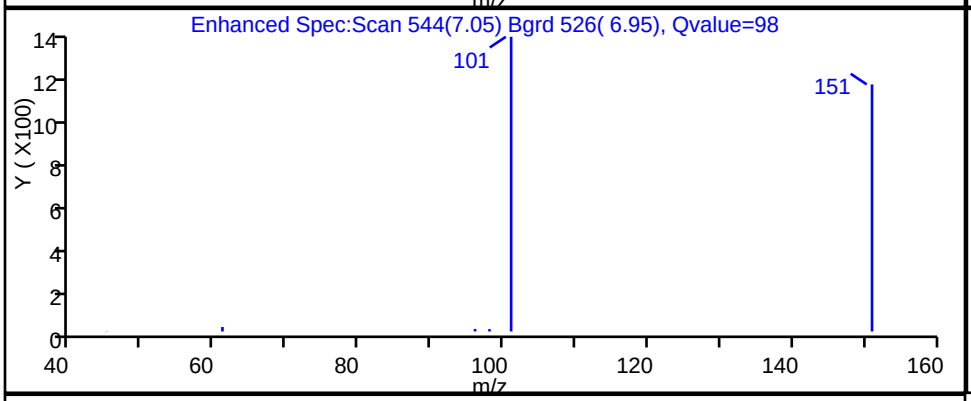
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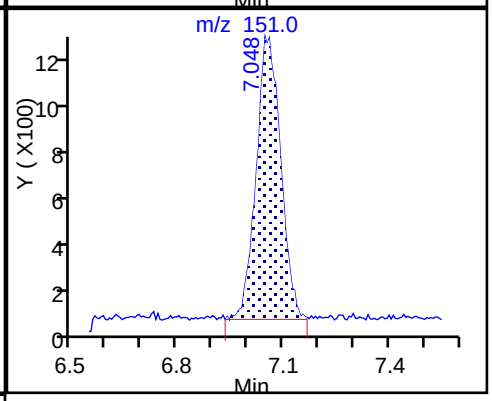
Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

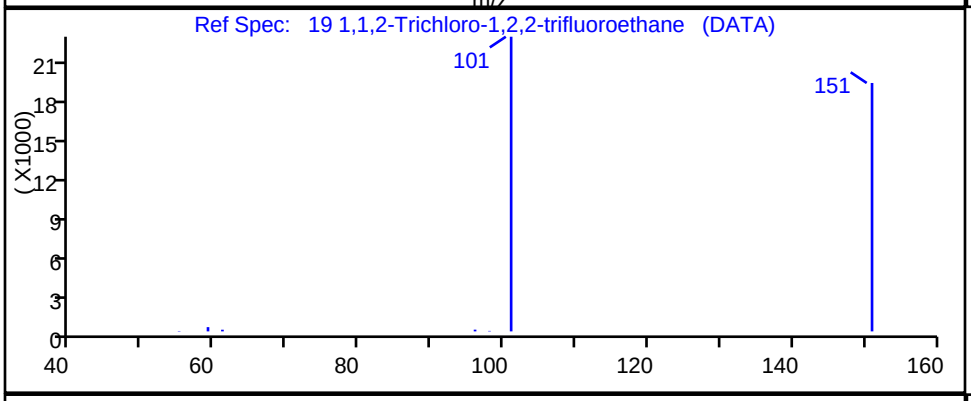
19 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

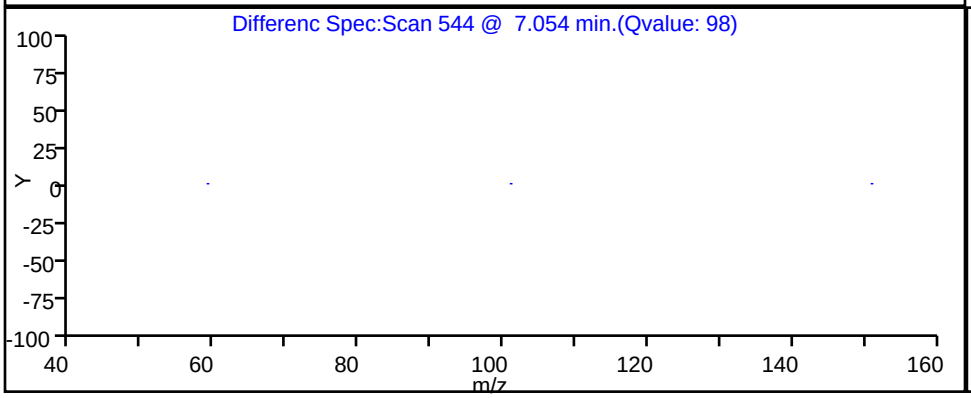


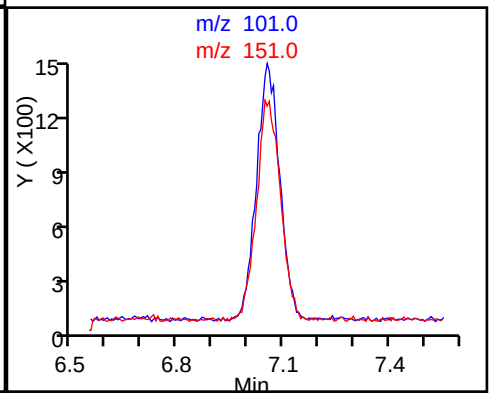












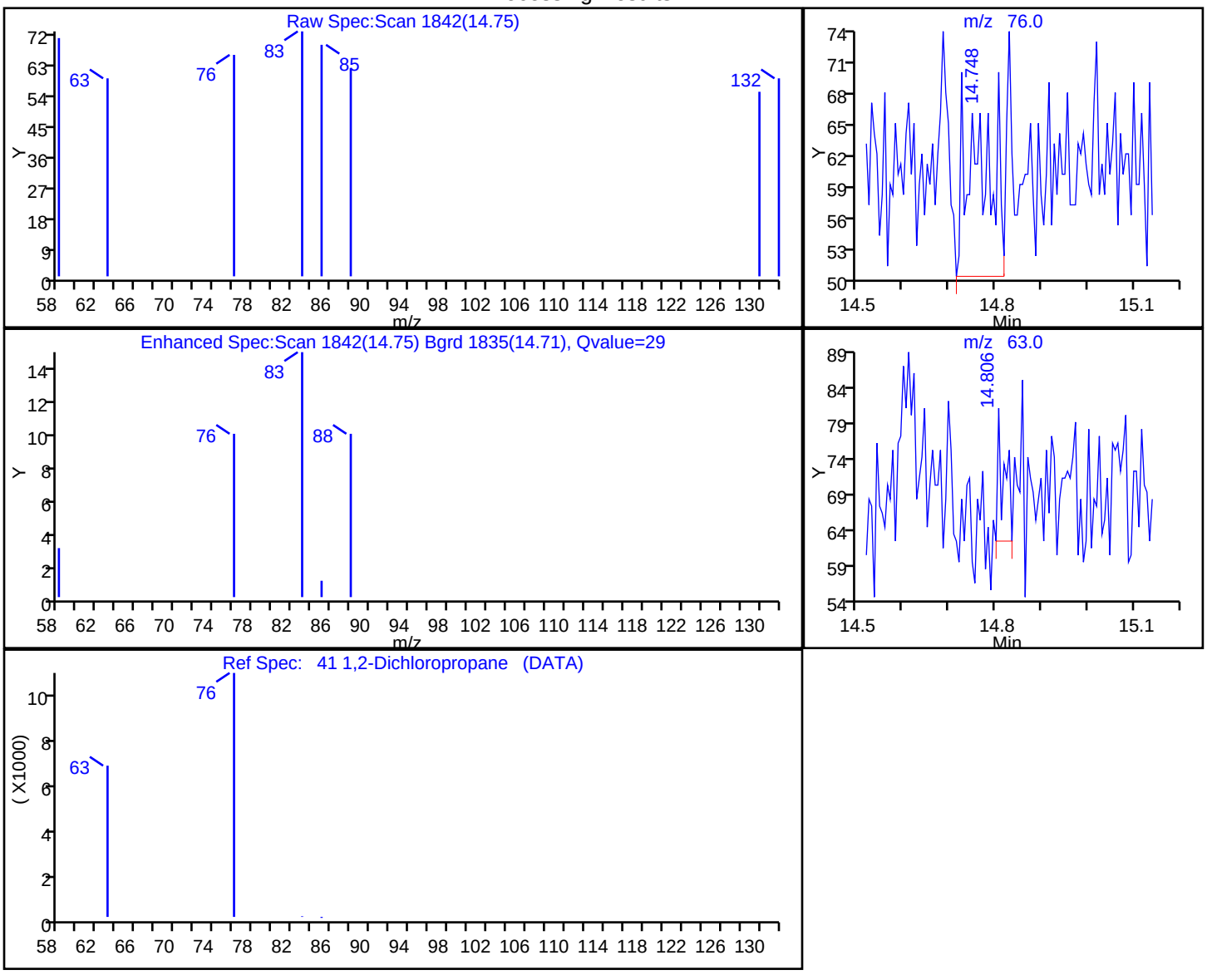
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D				
Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

41 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
14.75	76.00	61	0.002685
14.81	63.00	19	

Reviewer: phanthasena, 19-Feb-2018 11:09:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

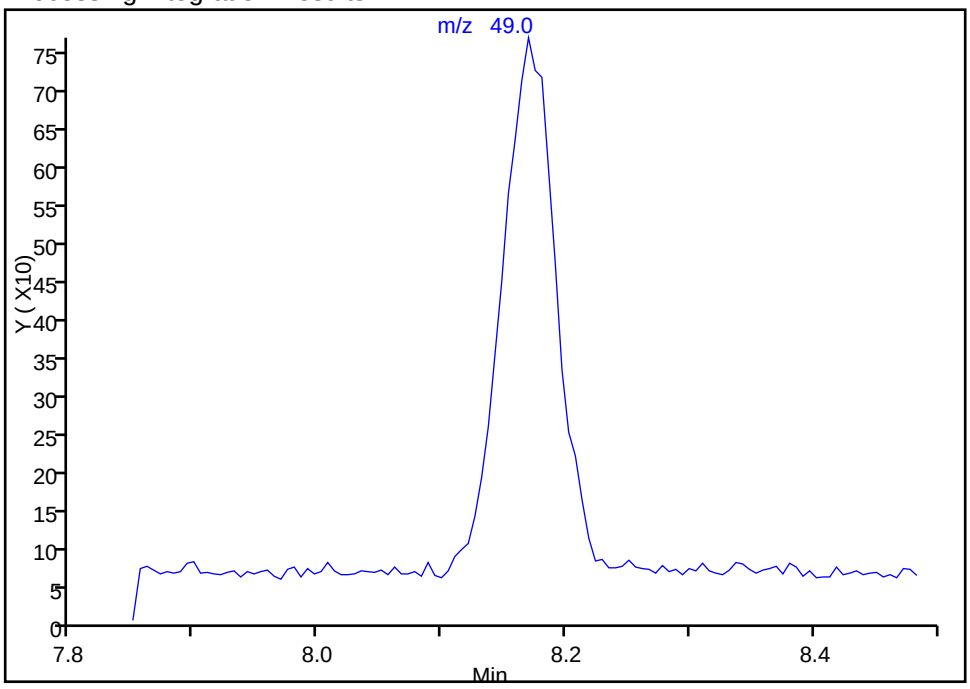
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D				
Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

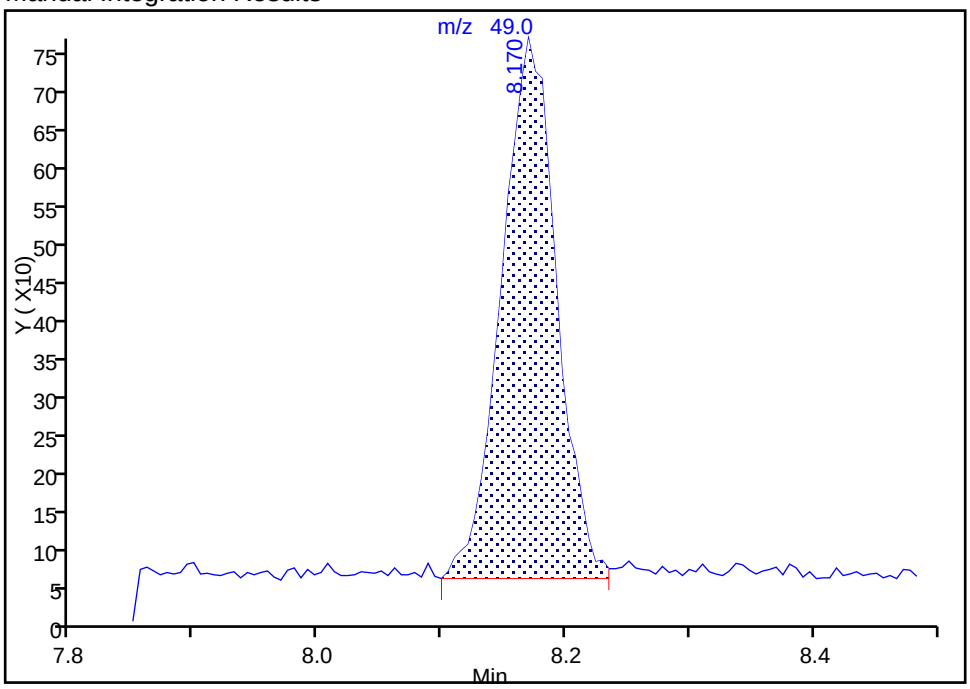
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.17
Area: 2195
Amount: 0.023422
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:09:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

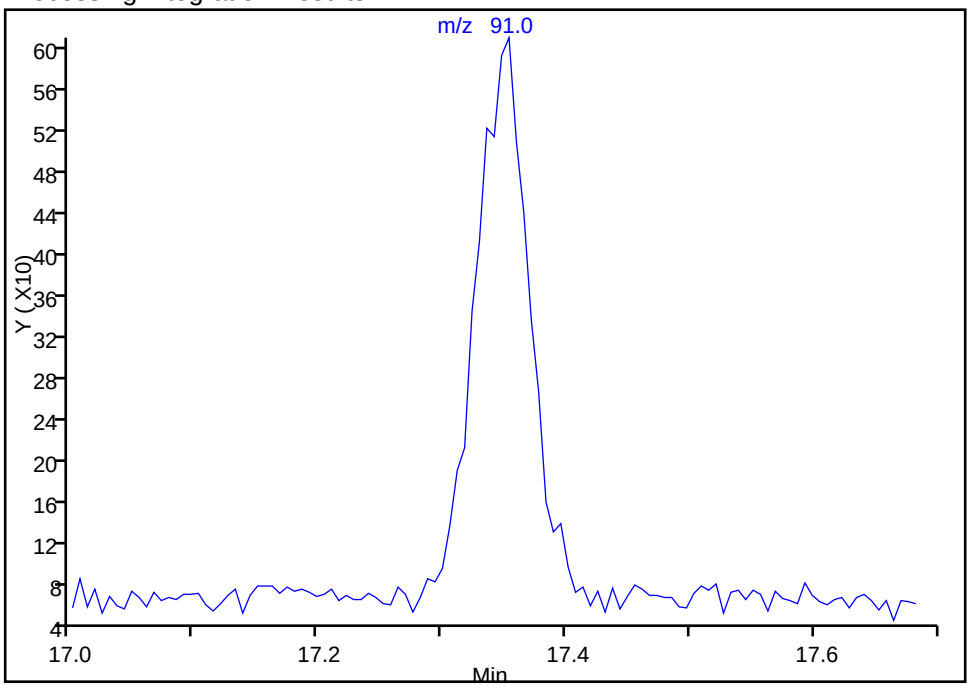
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D				
Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

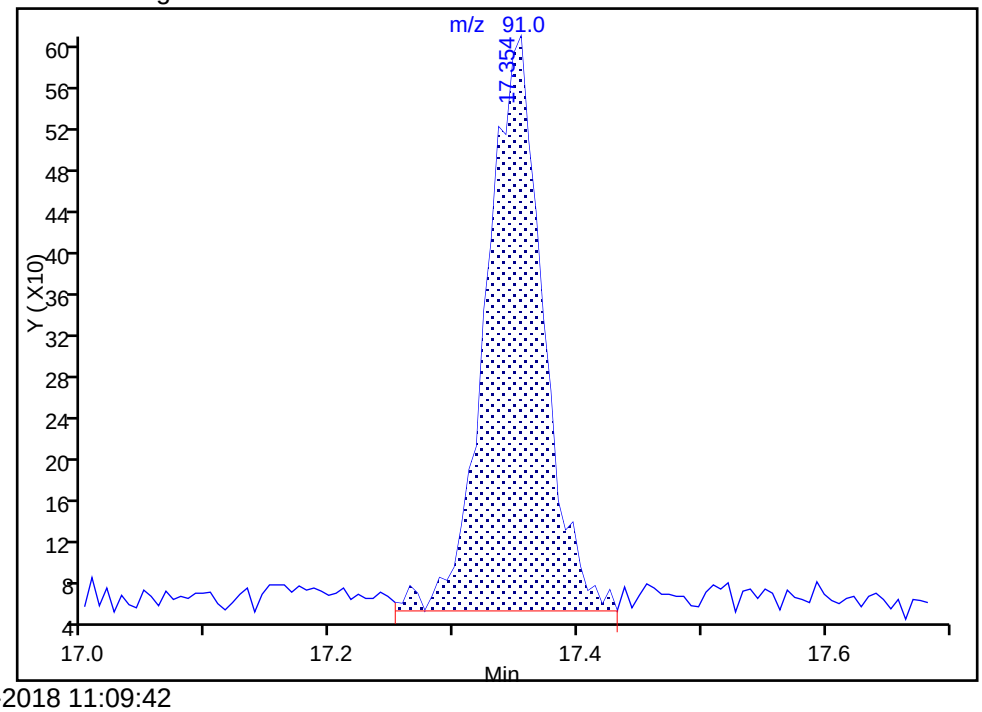
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 1763
Amount: 0.009922
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:09:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

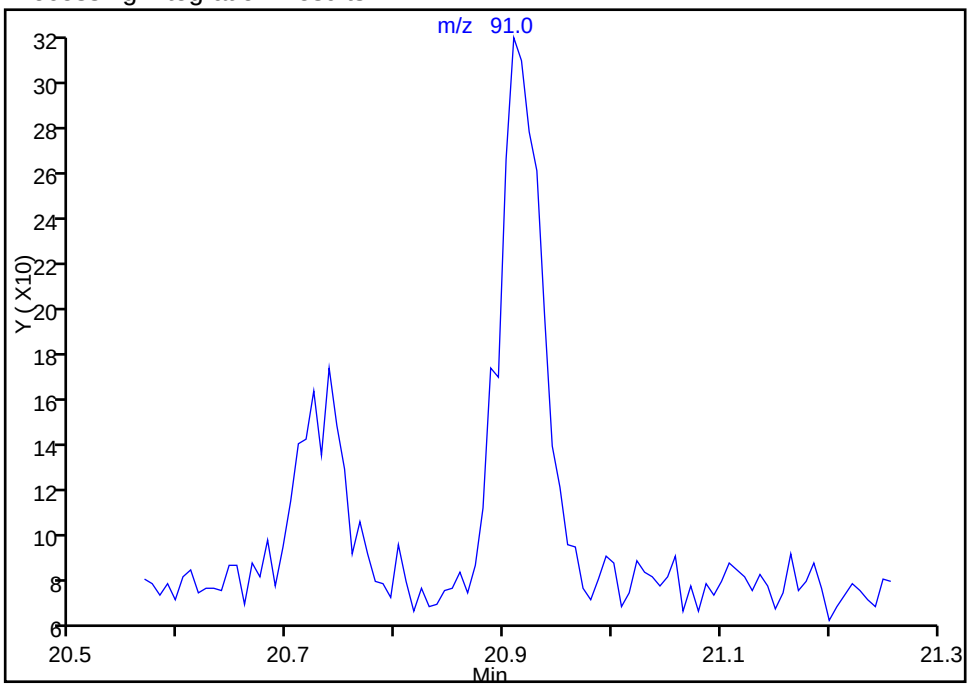
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A23.D				
Injection Date:	17-Feb-2018 14:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-4	Lab Sample ID:	320-35716-4		
Client ID:	34000465				
Operator ID:	SV	ALS Bottle#:	5	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

56 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

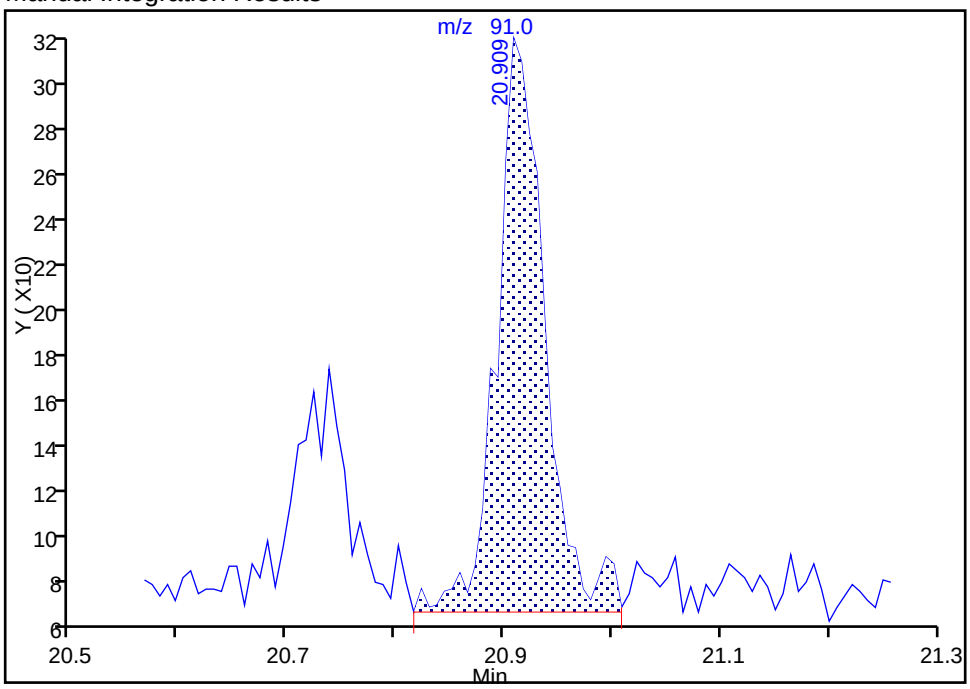
Not Detected
Expected RT: 20.91

Processing Integration Results



Manual Integration Results

RT: 20.91
Area: 771
Amount: 0.003699
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:09:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34001223 Lab Sample ID: 320-35716-5

Matrix: Air Lab File ID: MS10216A24.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34001223 Lab Sample ID: 320-35716-5

Matrix: Air Lab File ID: MS10216A24.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A24.D
Lims ID: 320-35716-A-5
Client ID: 34001223
Sample Type: Client
Inject. Date: 17-Feb-2018 15:38:30 ALS Bottle#: 6 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-5
Operator ID: SV Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 10:12:14 Calib Date: 16-Feb-2018 18:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A03.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: phanthasena Date: 19-Feb-2018 11:10:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.613	11.607	0.006	78	56840	2.00	
* 2 1,4-Difluorobenzene	114	13.773	13.769	0.004	100	220118	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.461	20.461	0.000	100	159466	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.805	12.797	0.008	70	136197	2.17	
$ 5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	114663	2.07	
$ 6 4-Bromofluorobenzene (Surr	174	23.031	23.024	0.007	98	102732	1.94	
15 Trichlorofluoromethane	101	6.038	6.027	0.011	97	1044	0.006068	7a
18 Acetone	43	6.886	6.892	-0.006	97	34494	0.3389	
22 Methylene Chloride	49	8.170	8.164	0.006	63	2069	0.0209	7a
46 Toluene	91	17.348	17.342	0.006	97	1292	0.006924	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

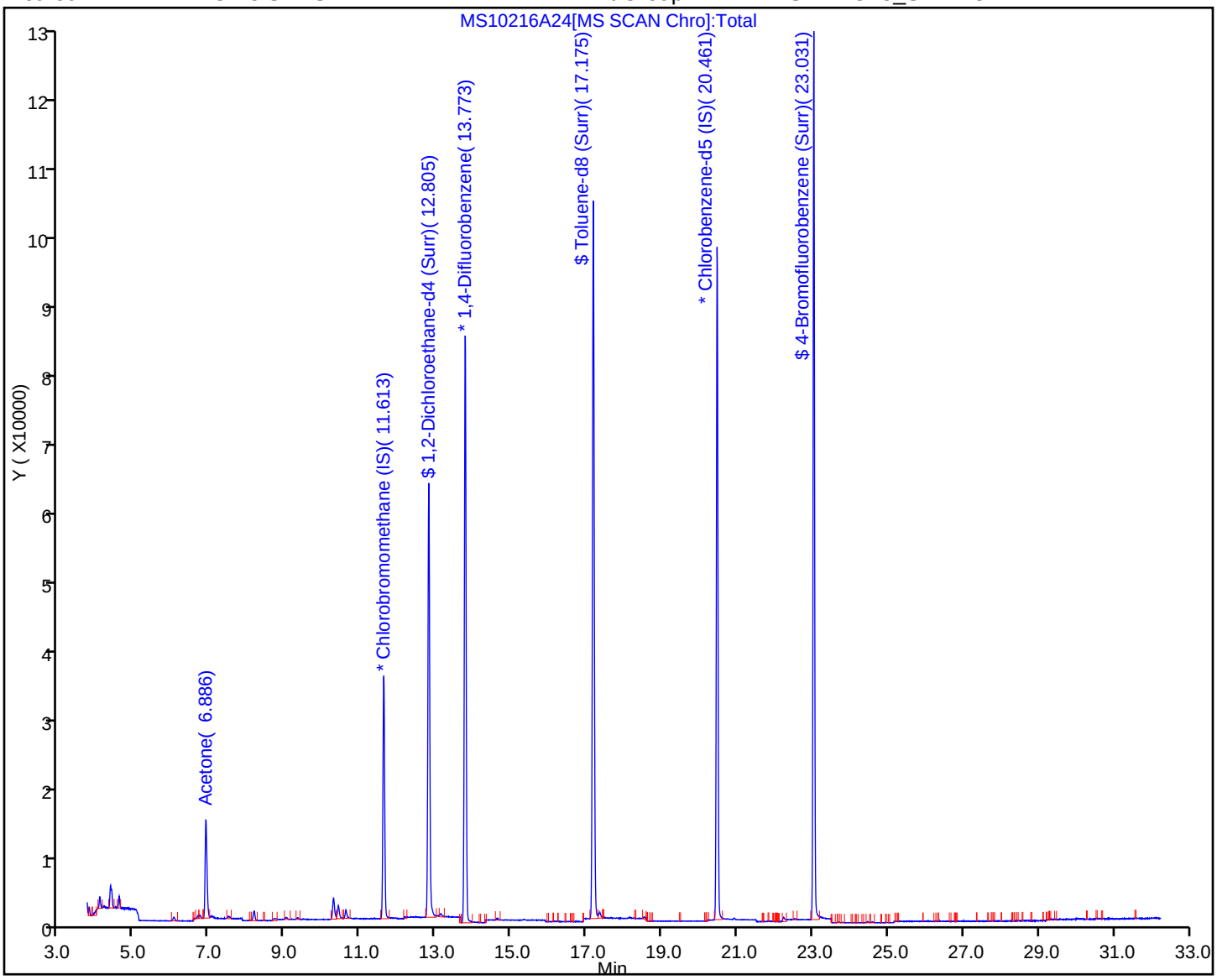
VAMSIS20_00102 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 10:12:59 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A24.D

Injection Date:	17-Feb-2018 15:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-5	Lab Sample ID:	320-35716-5		
Client ID:	34001223				
Operator ID:	SV	ALS Bottle#:	6	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

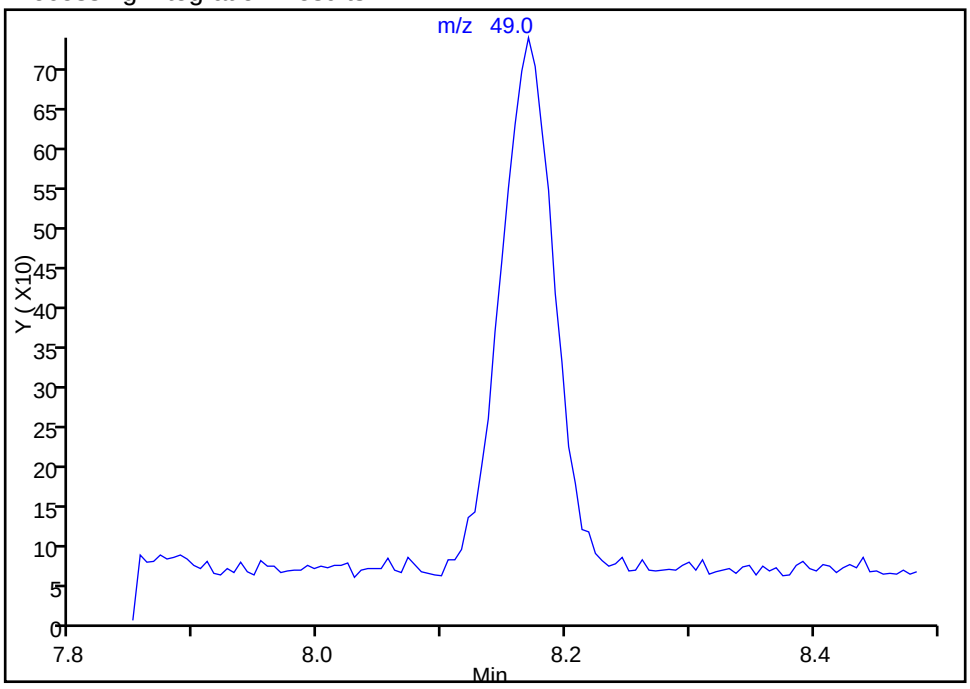
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A24.D				
Injection Date:	17-Feb-2018 15:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-5	Lab Sample ID:	320-35716-5		
Client ID:	34001223				
Operator ID:	SV	ALS Bottle#:	6	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

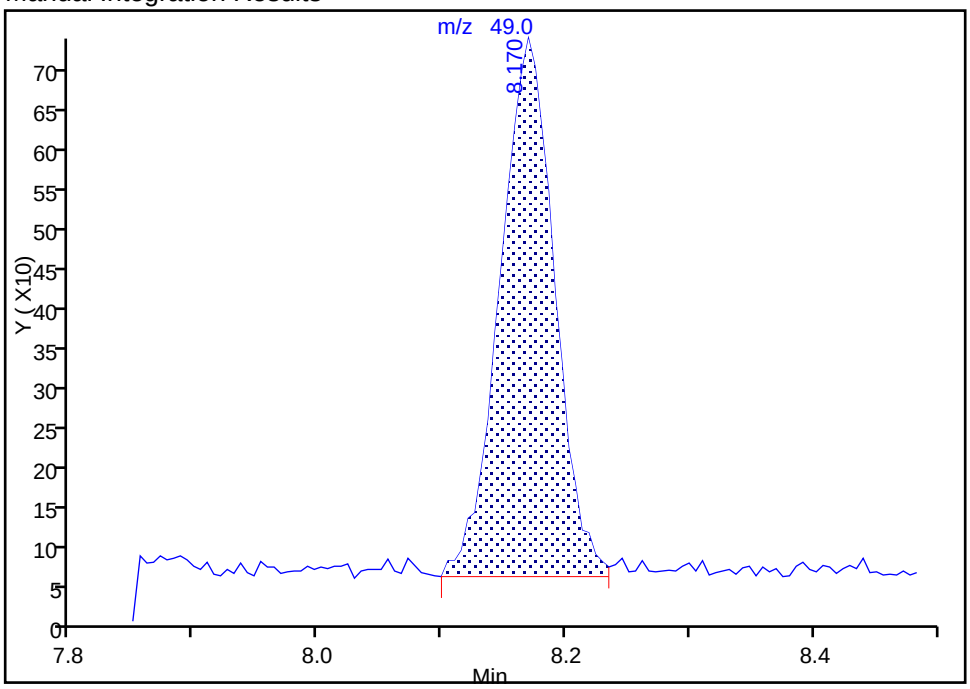
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.17
Area: 2069
Amount: 0.020923
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:10:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

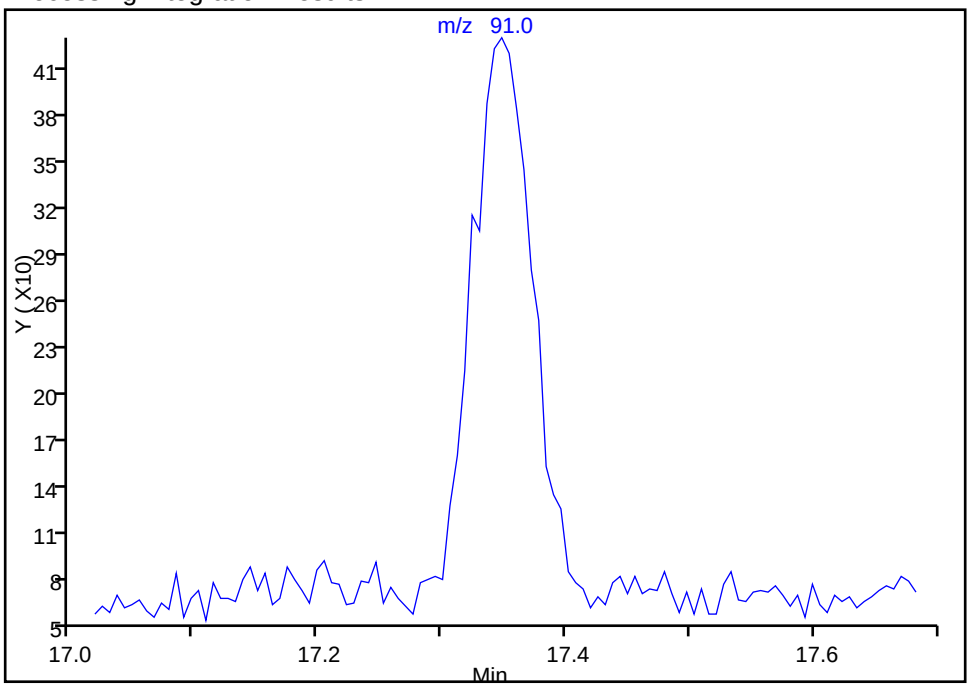
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A24.D				
Injection Date:	17-Feb-2018 15:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-5	Lab Sample ID:	320-35716-5		
Client ID:	34001223				
Operator ID:	SV	ALS Bottle#:	6	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

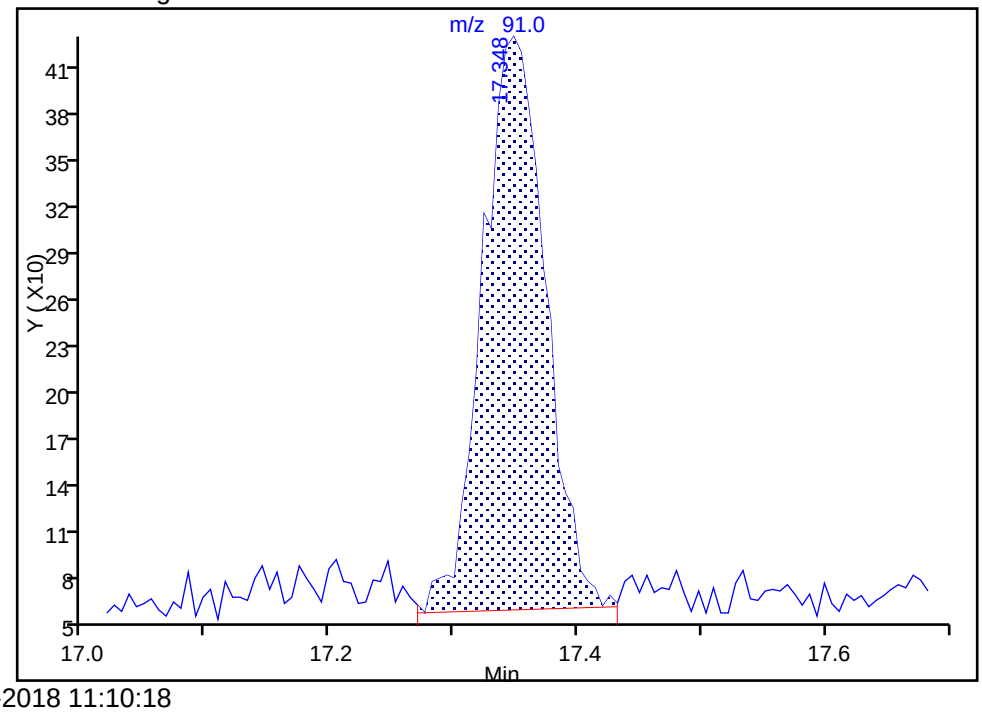
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 1292
Amount: 0.006924
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:10:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

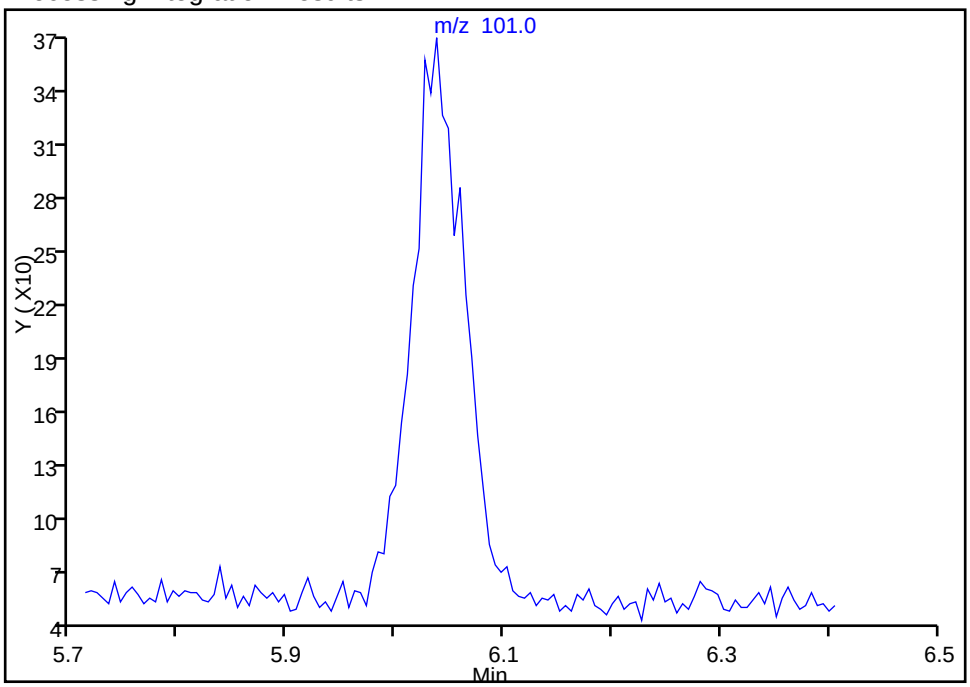
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A24.D				
Injection Date:	17-Feb-2018 15:38:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-5	Lab Sample ID:	320-35716-5		
Client ID:	34001223				
Operator ID:	SV	ALS Bottle#:	6	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

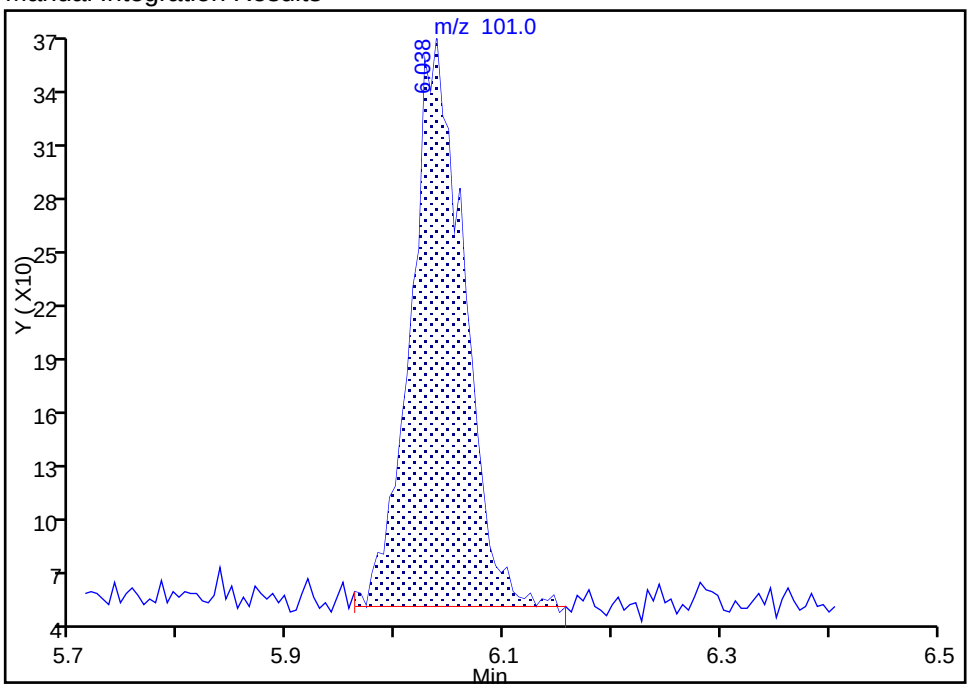
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.04
Area: 1044
Amount: 0.006068
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:10:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34001122 Lab Sample ID: 320-35716-6

Matrix: Air Lab File ID: MS10216A25.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 16:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34001122 Lab Sample ID: 320-35716-6

Matrix: Air Lab File ID: MS10216A25.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2018 16:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208855 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.19	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A25.D
Lims ID: 320-35716-A-6
Client ID: 34001122
Sample Type: Client
Inject. Date: 17-Feb-2018 16:39:30 ALS Bottle#: 7 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-6
Operator ID: SV Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 10:12:14 Calib Date: 16-Feb-2018 18:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A03.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: phanthasena Date: 19-Feb-2018 11:11:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.614	11.607	0.007	77	54517	2.00	
* 2 1,4-Difluorobenzene	114	13.780	13.769	0.011	100	213487	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.468	20.461	0.007	100	158287	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.812	12.797	0.015	94	131778	2.16	
$ 5 Toluene-d8 (Surr)	100	17.181	17.169	0.012	100	112974	2.10	
$ 6 4-Bromofluorobenzene (Surr	174	23.031	23.024	0.007	97	105690	2.01	
15 Trichlorofluoromethane	101	6.032	6.027	0.005	98	1035	0.006273	7a
18 Acetone	43	6.898	6.892	0.006	99	18108	0.1855	
19 1,1,2-Trichloro-1,2,2-trif	101	7.060	7.036	0.024	91	1170	0.0137	a
22 Methylene Chloride	49	8.170	8.164	0.006	63	1815	0.0191	7a
46 Toluene	91	17.354	17.342	0.012	97	1237	0.006835	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

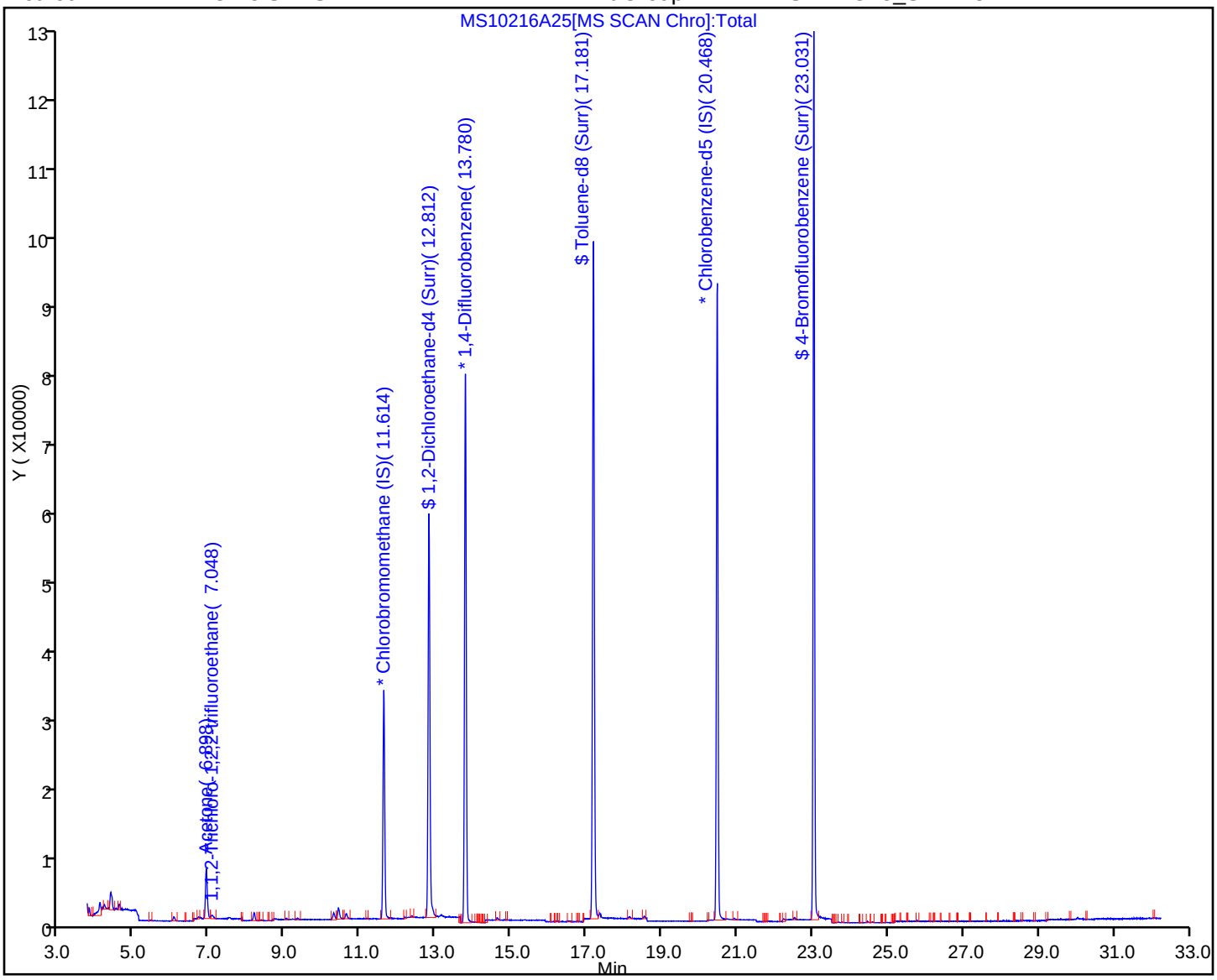
VAMSIS20_00102 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 10:13:03 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A25.D

Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



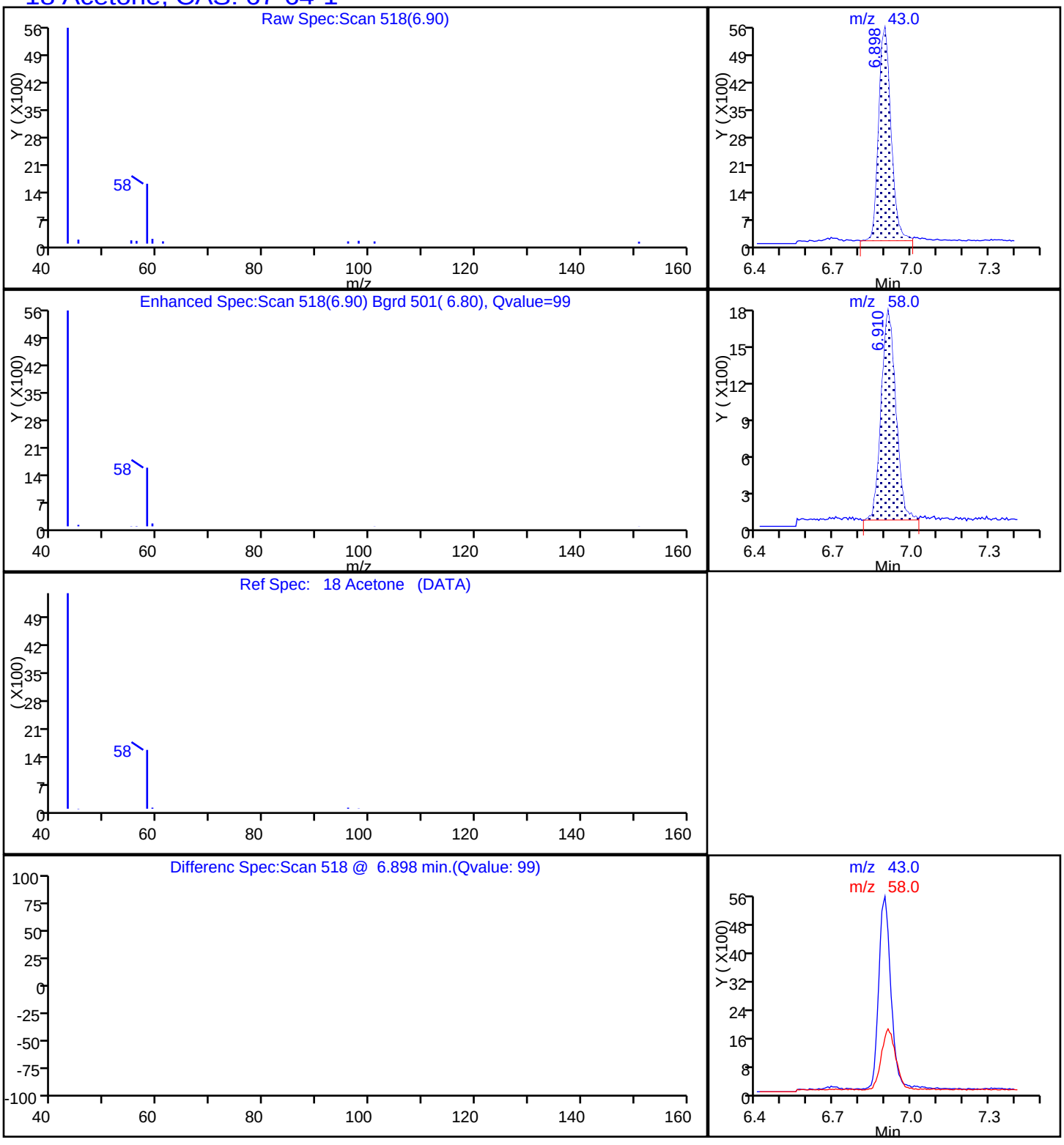
Report Date: 19-Feb-2018 10:13:03 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A25.D

Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



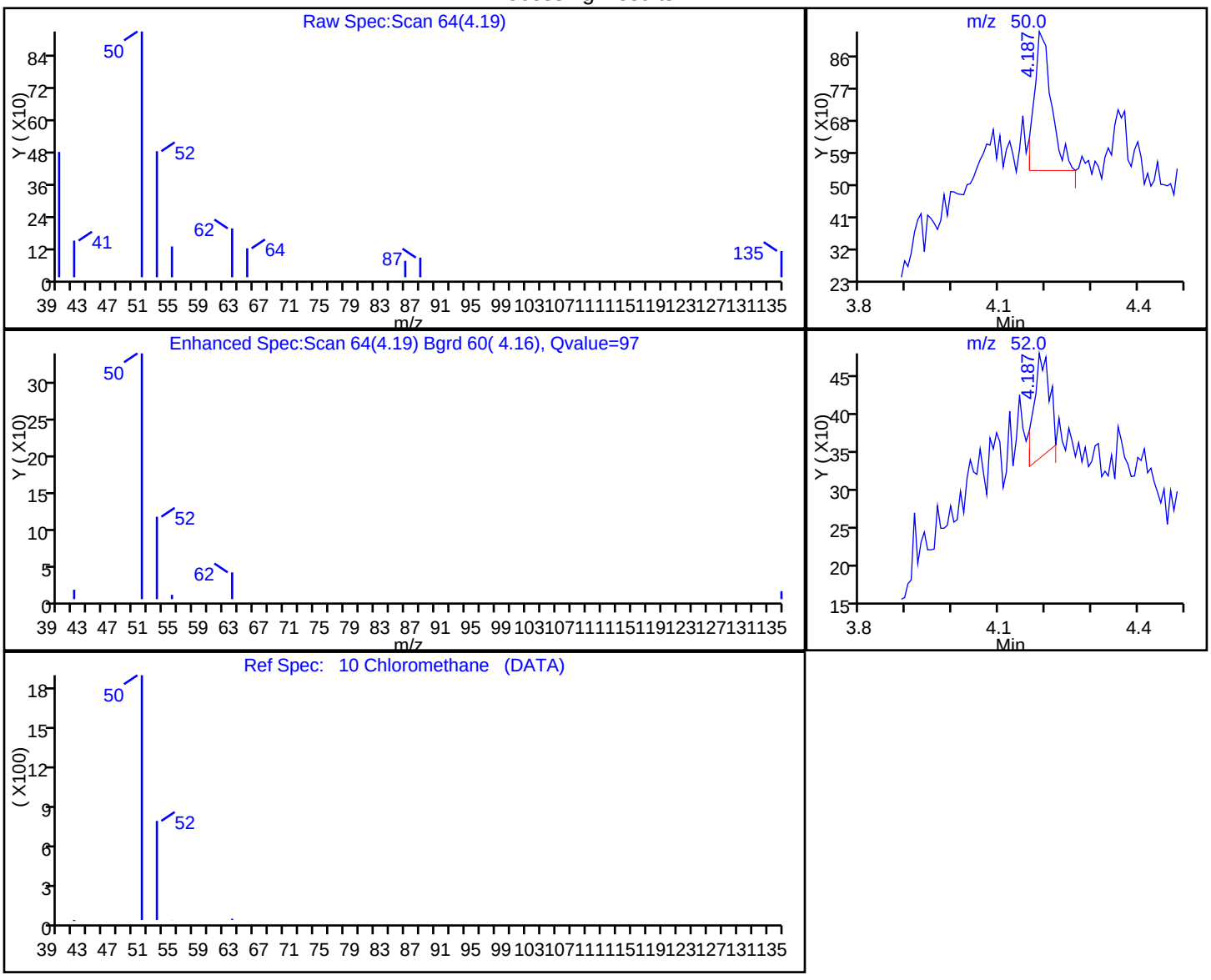
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A25.D				
Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.19	50.00	993	0.043980
4.19	52.00	307	

Reviewer: phanthasena, 19-Feb-2018 11:11:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

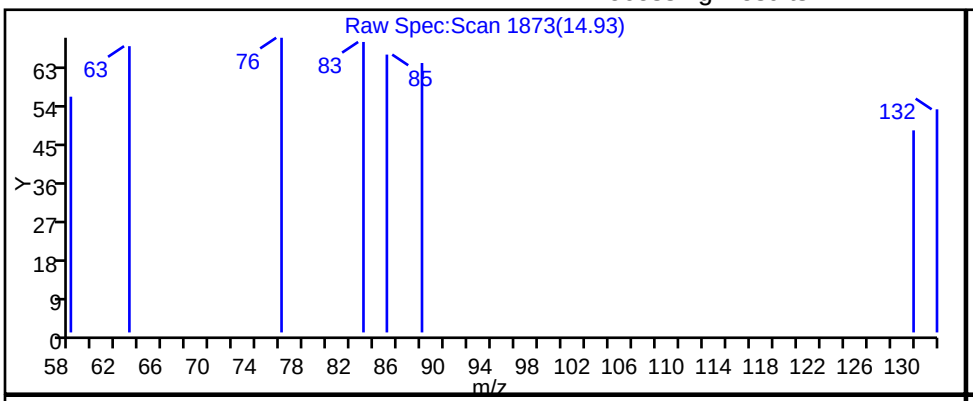
User Disabled Compound Report

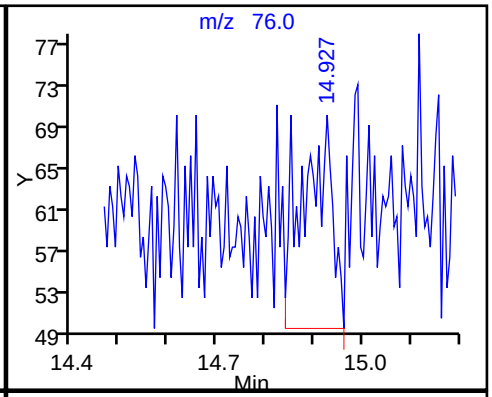
TestAmerica Sacramento

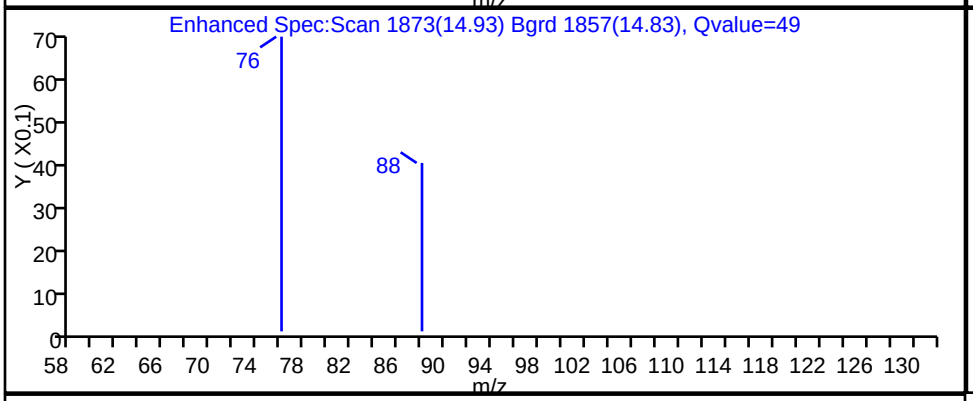
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Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

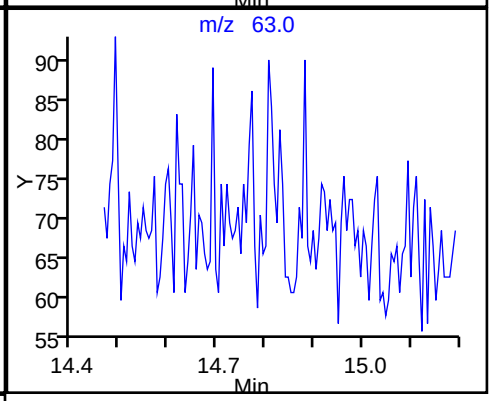
41 1,2-Dichloropropane, CAS: 78-87-5

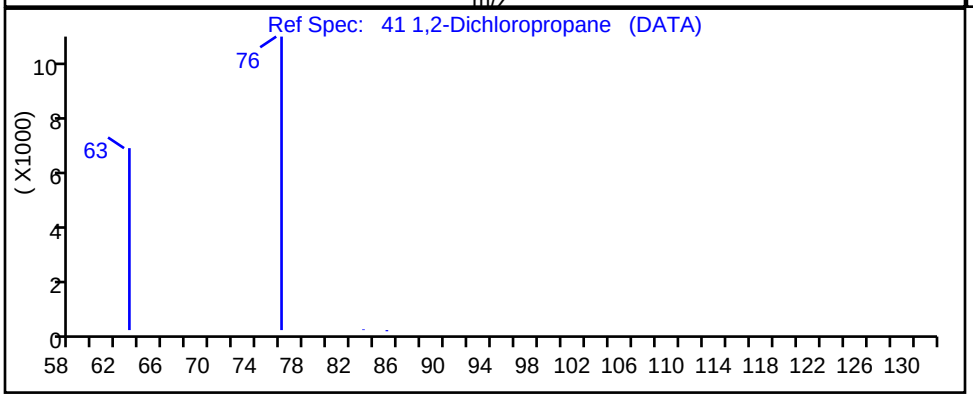
Processing Results











RT	Mass	Response	Amount
14.93	76.00	89	0.003847
14.82	63.00	0	

Reviewer: phanthasena, 19-Feb-2018 11:11:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

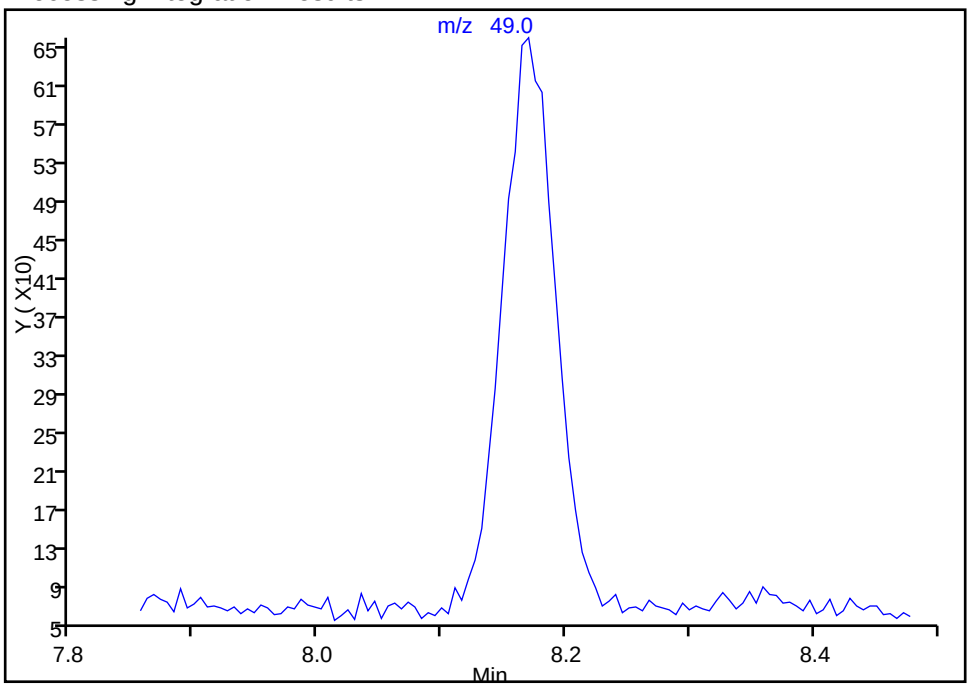
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Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

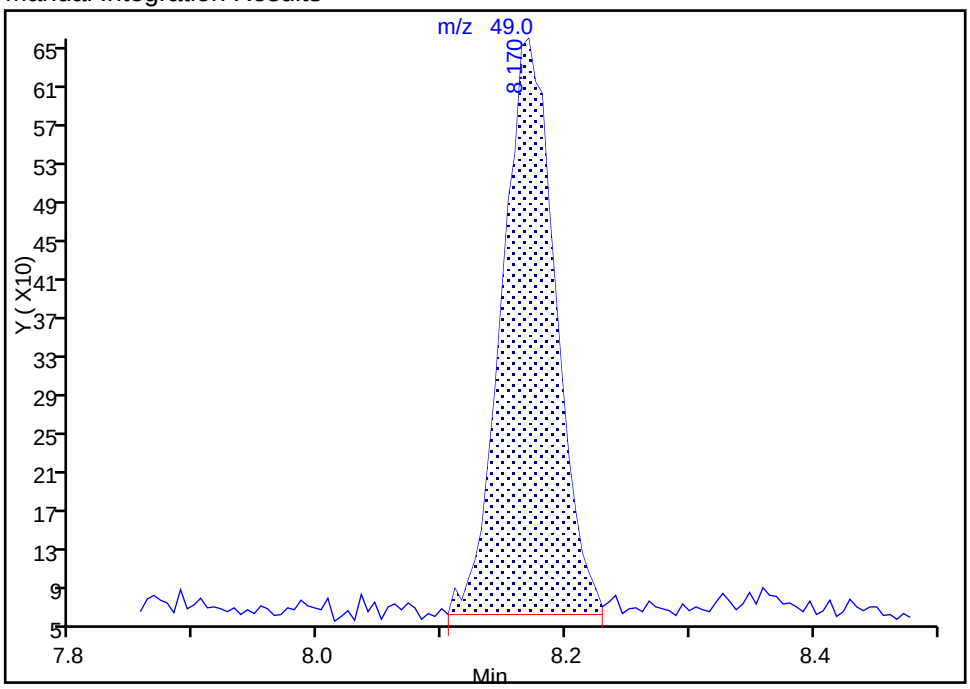
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.17
Area: 1815
Amount: 0.019137
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:11:11
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

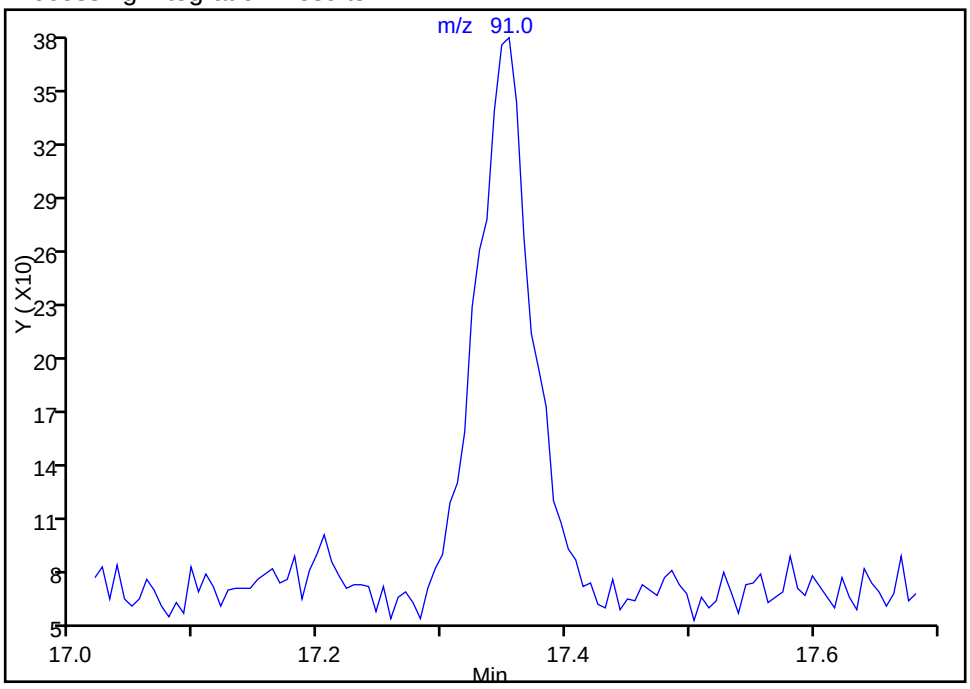
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A25.D				
Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

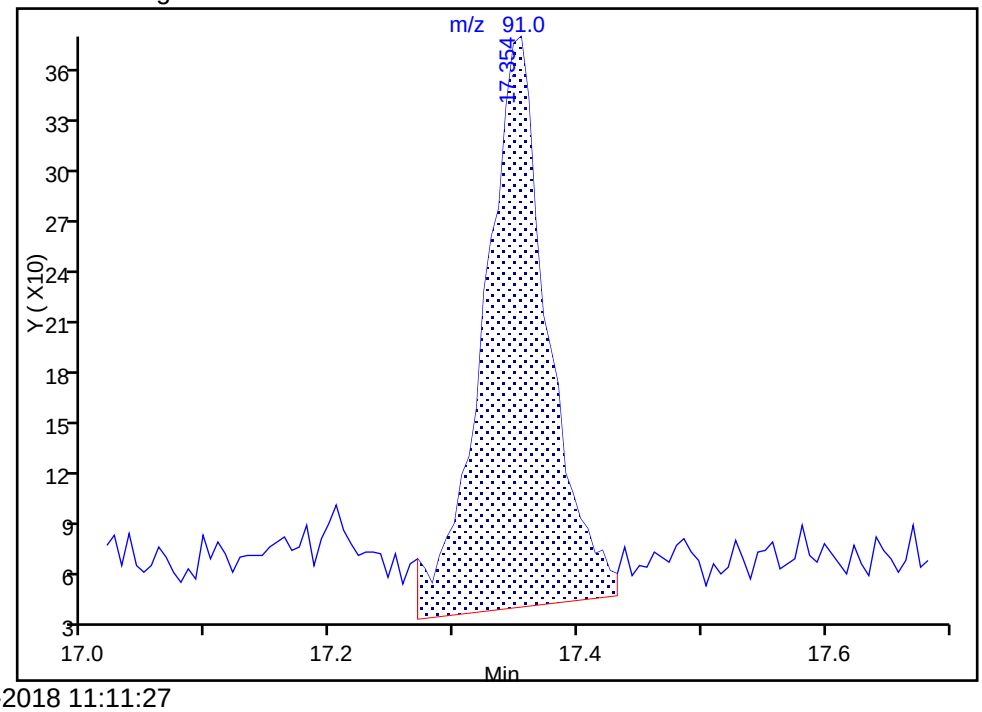
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 1237
Amount: 0.006835
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:11:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

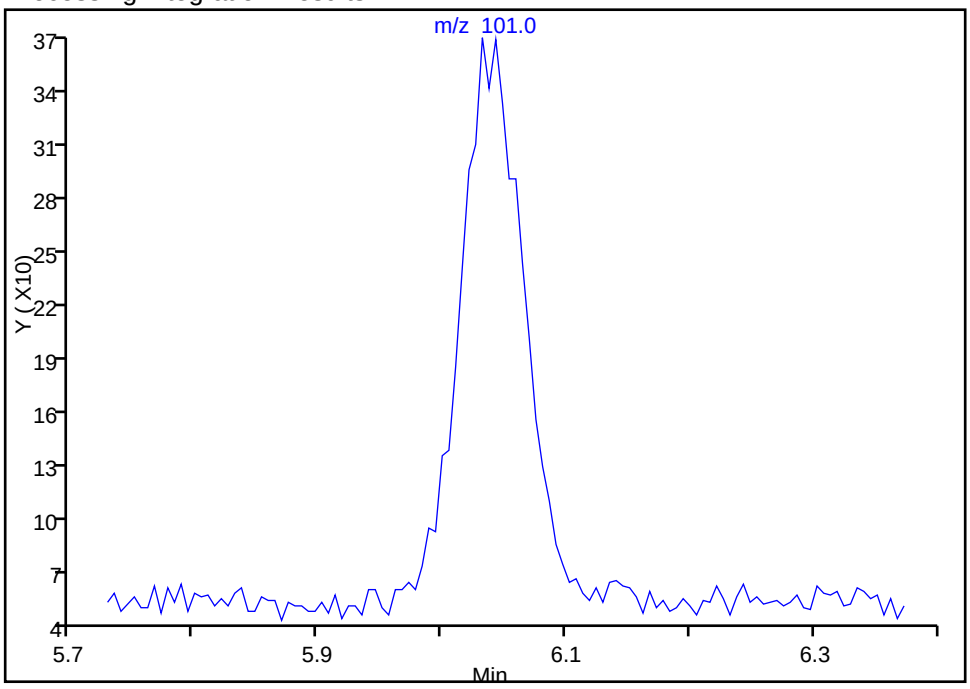
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180216-54183.b\MS10216A25.D				
Injection Date:	17-Feb-2018 16:39:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-6	Lab Sample ID:	320-35716-6		
Client ID:	34001122				
Operator ID:	SV	ALS Bottle#:	7	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

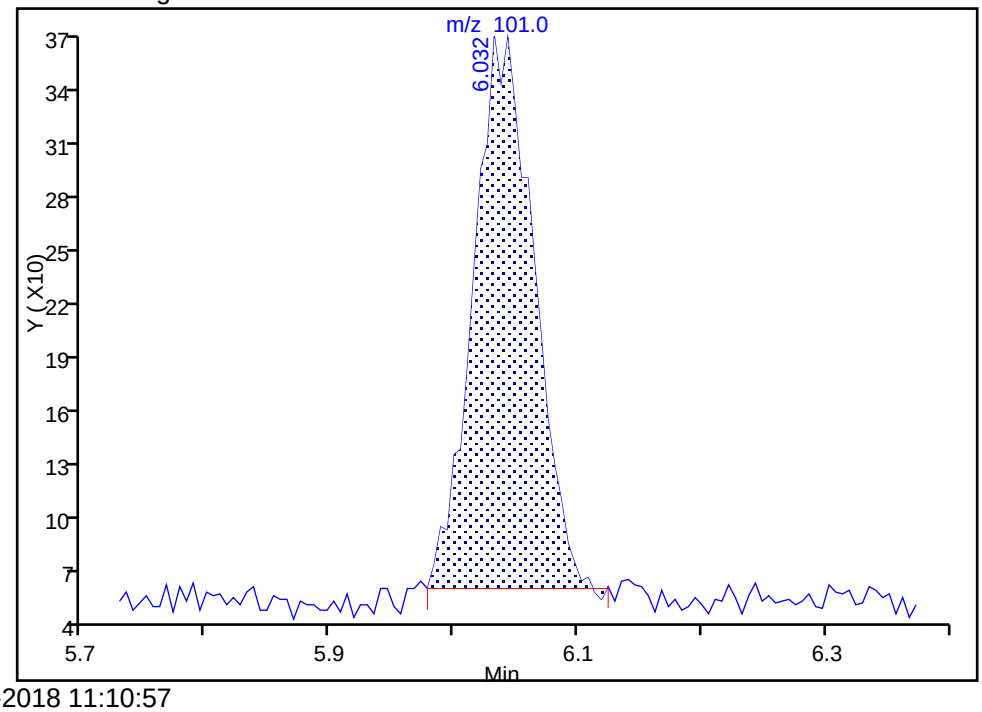
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 1035
Amount: 0.006273
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 11:10:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000081 | Lab Sample ID: 320-35716-7

Matrix: Air | Lab File ID: MS1021806.D

Analysis Method: TO-15 SIM | Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2018 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208997 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.011	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000081 Lab Sample ID: 320-35716-7

Matrix: Air Lab File ID: MS1021806.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 15:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.16	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021806.D
Lims ID: 320-35716-A-7
Client ID: 34000081
Sample Type: Client
Inject. Date: 18-Feb-2018 15:41:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-7
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:21:10

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	11.608	11.608	0.000	75	53347	2.00	
*	2 1,4-Difluorobenzene	114	13.770	13.769	0.001	100	218932	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.462	20.461	0.001	100	176750	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	12.798	12.797	0.001	74	142847	2.07	
$	5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	123063	1.98	
$	6 4-Bromofluorobenzene (Surr	174	23.031	23.031	0.000	98	132348	1.98	
	15 Trichlorofluoromethane	101	6.027	6.027	0.000	100	6565	0.0418	
	18 Acetone	43	6.880	6.886	-0.006	100	21563	0.1606	
	19 1,1,2-Trichloro-1,2,2-trif	101	7.042	7.054	-0.012	100	5661	0.0629	
	38 Benzene	78	13.136	13.128	0.008	100	1006	0.0107	

Reagents:

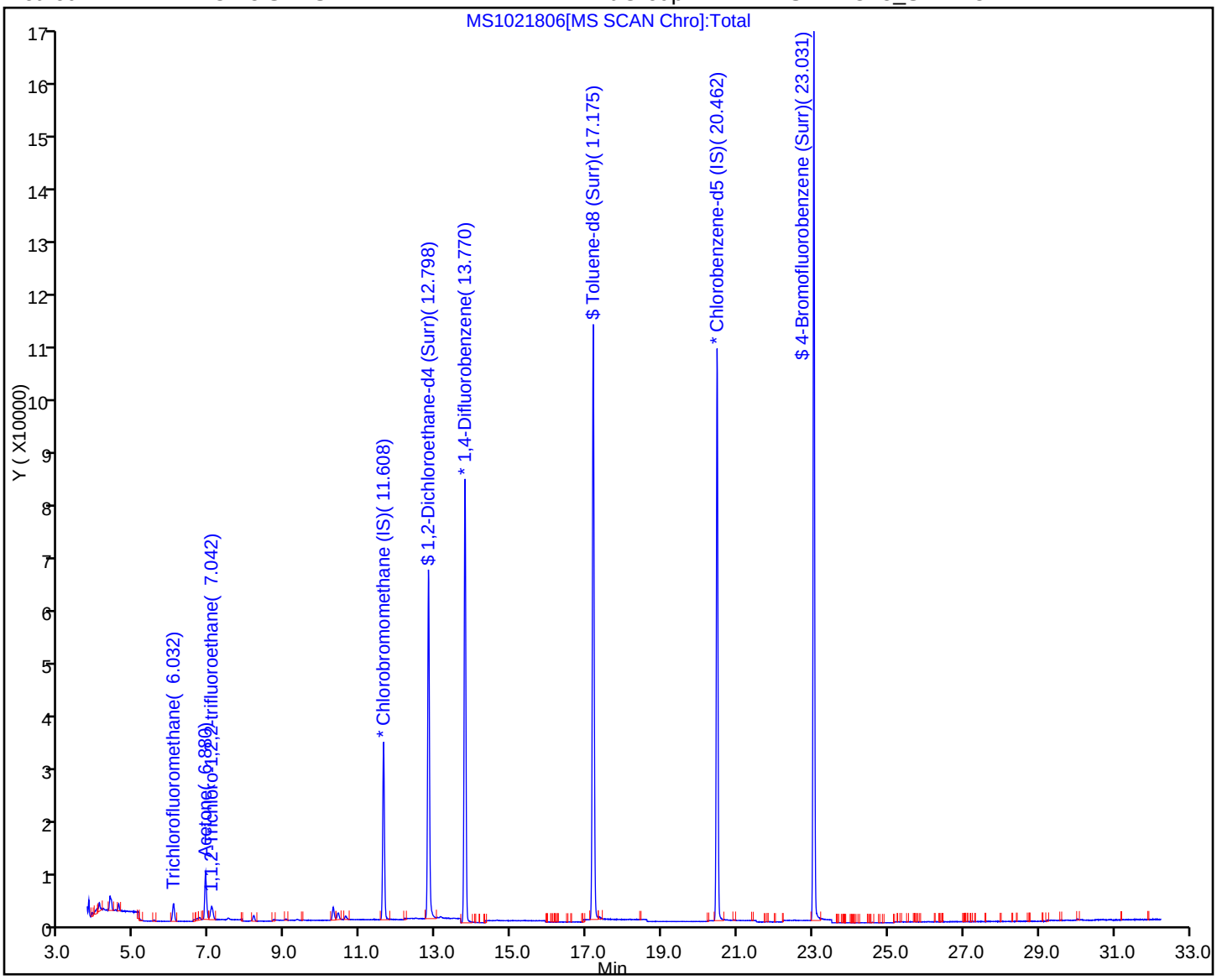
VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021806.D

Injection Date:	18-Feb-2018 15:41:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-7	Lab Sample ID:	320-35716-7		
Client ID:	34000081				
Operator ID:	SRS	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



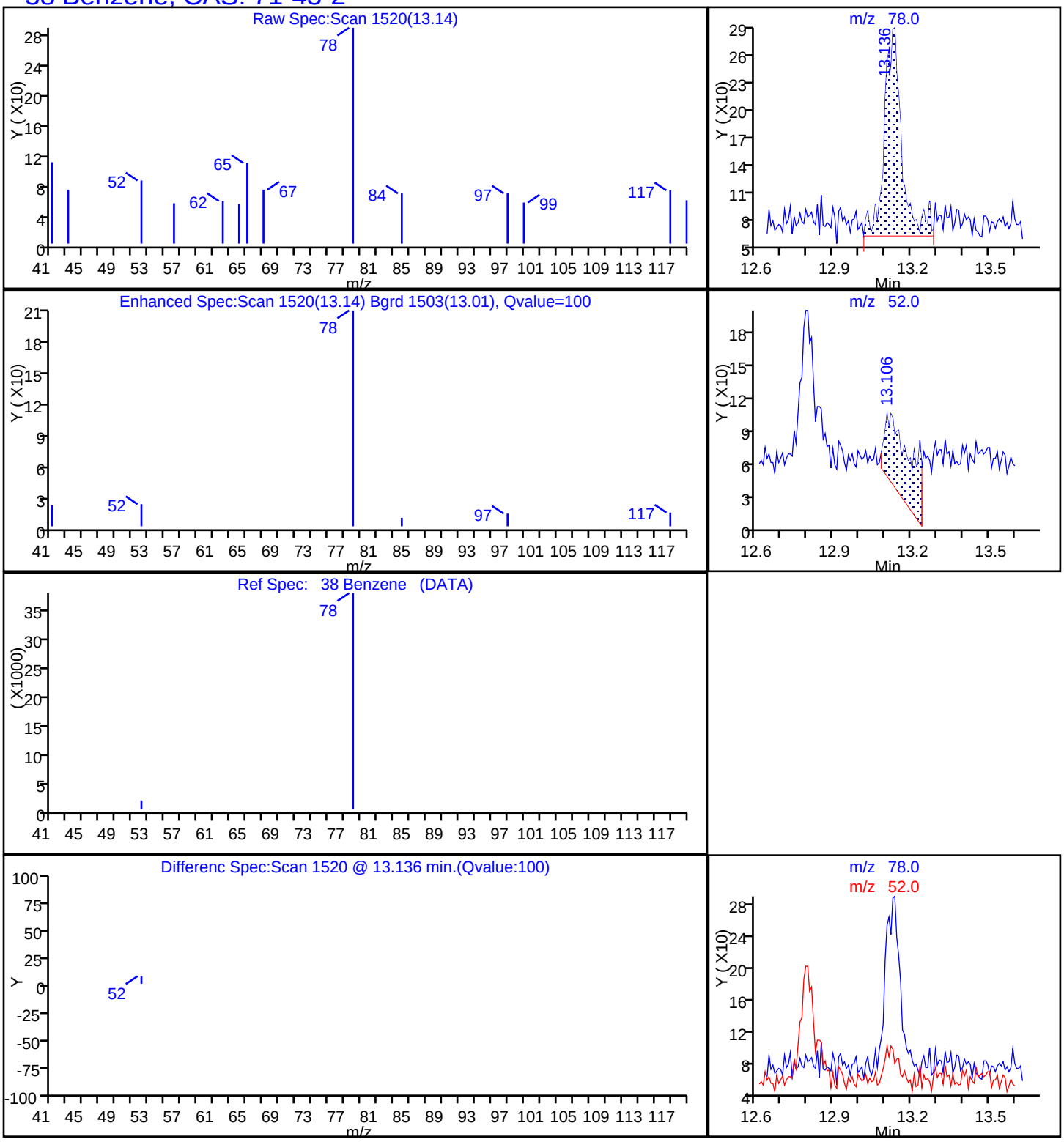
Report Date: 19-Feb-2018 14:14:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021806.D

Injection Date:	18-Feb-2018 15:41:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-7	Lab Sample ID:	320-35716-7		
Client ID:	34000081				
Operator ID:	SRS	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



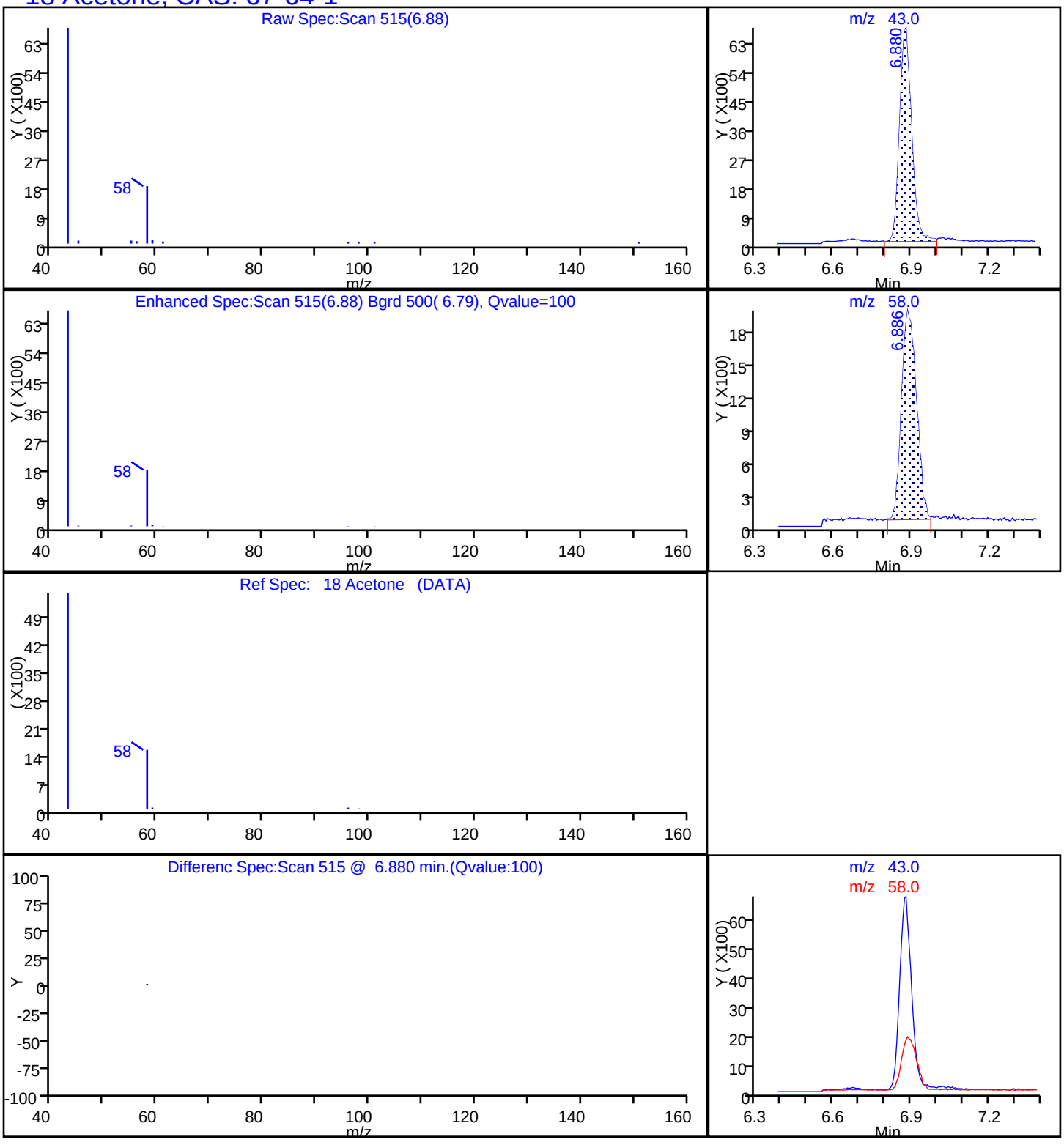
Report Date: 19-Feb-2018 14:14:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021806.D

Injection Date:	18-Feb-2018 15:41:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-7	Lab Sample ID:	320-35716-7		
Client ID:	34000081				
Operator ID:	SRS	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000881 Lab Sample ID: 320-35716-8

Matrix: Air Lab File ID: MS1021807.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000881 Lab Sample ID: 320-35716-8

Matrix: Air Lab File ID: MS1021807.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021807.D
Lims ID: 320-35716-A-8
Client ID: 34000881
Sample Type: Client
Inject. Date: 18-Feb-2018 16:41:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-8
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:23:25

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	11.607	11.608	-0.001	78	55263	2.00	
*	2 1,4-Difluorobenzene	114	13.769	13.769	0.000	100	213688	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.468	20.461	0.007	99	173559	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	12.797	12.797	0.000	77	134621	2.00	
$	5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	121564	2.00	
$	6 4-Bromofluorobenzene (Surr	174	23.030	23.031	-0.001	98	130260	1.99	
	18 Acetone	43	6.880	6.886	-0.006	97	32664	0.2348	

Reagents:

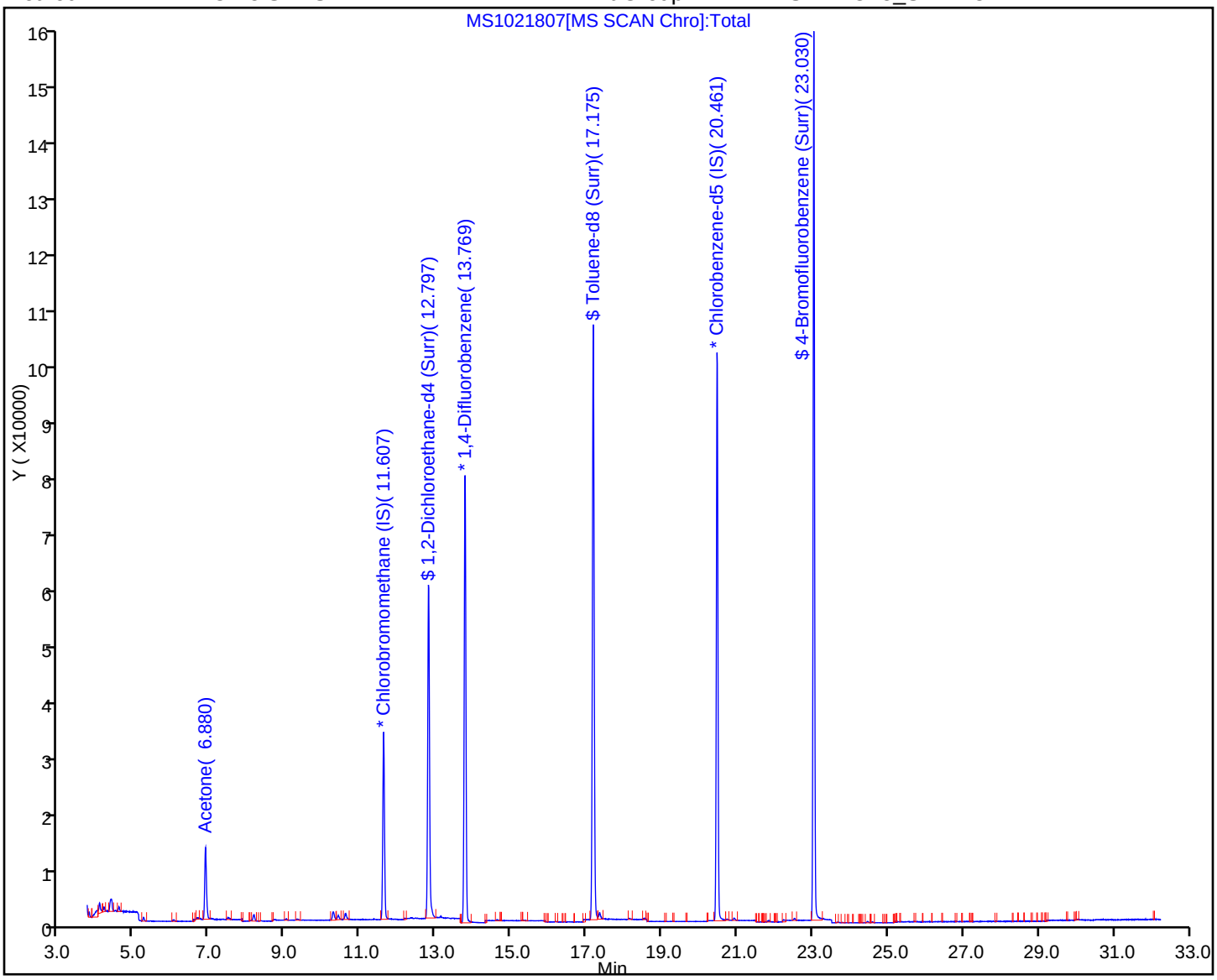
VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:45 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021807.D

Injection Date:	18-Feb-2018 16:41:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-8	Lab Sample ID:	320-35716-8		
Client ID:	34000881				
Operator ID:	SRS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



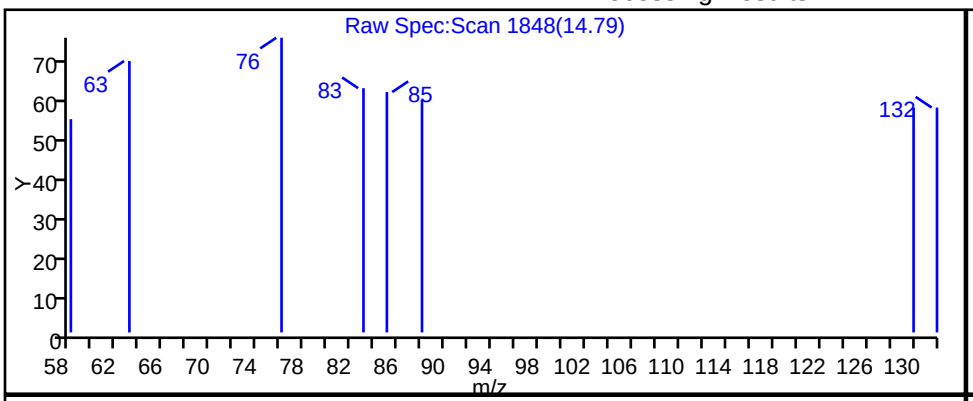
User Disabled Compound Report

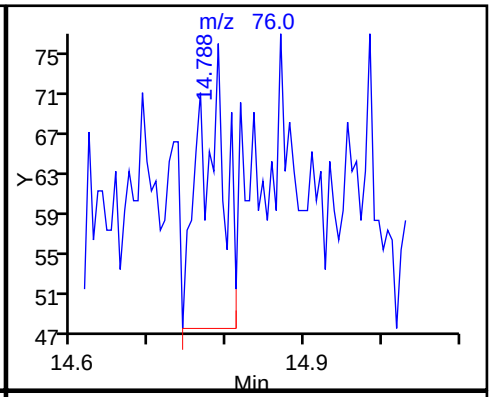
TestAmerica Sacramento

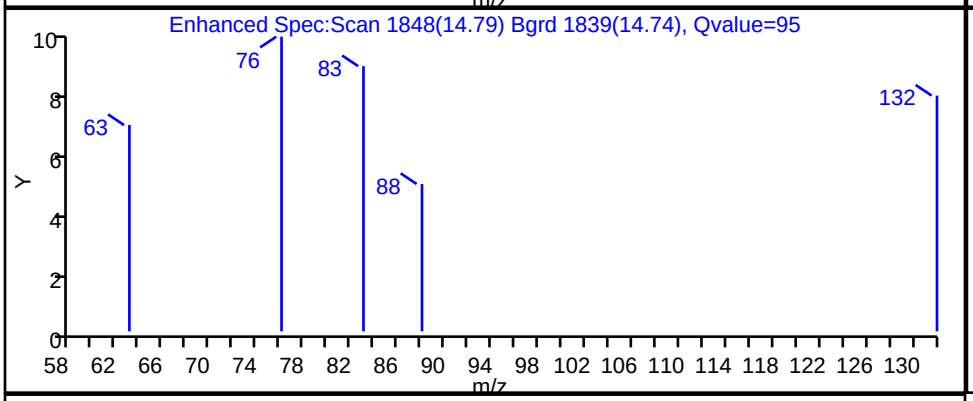
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021807.D				
Injection Date:	18-Feb-2018 16:41:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-8	Lab Sample ID:	320-35716-8		
Client ID:	34000881				
Operator ID:	SRS	ALS Bottle#:	5	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

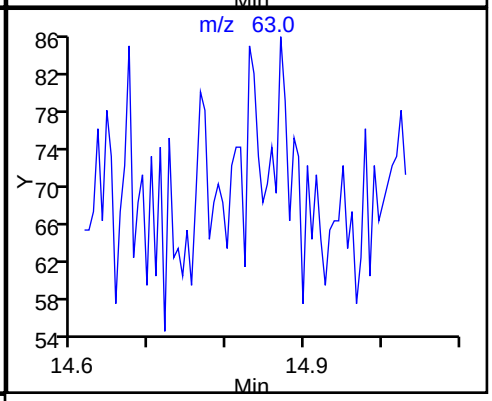
41 1,2-Dichloropropane, CAS: 78-87-5

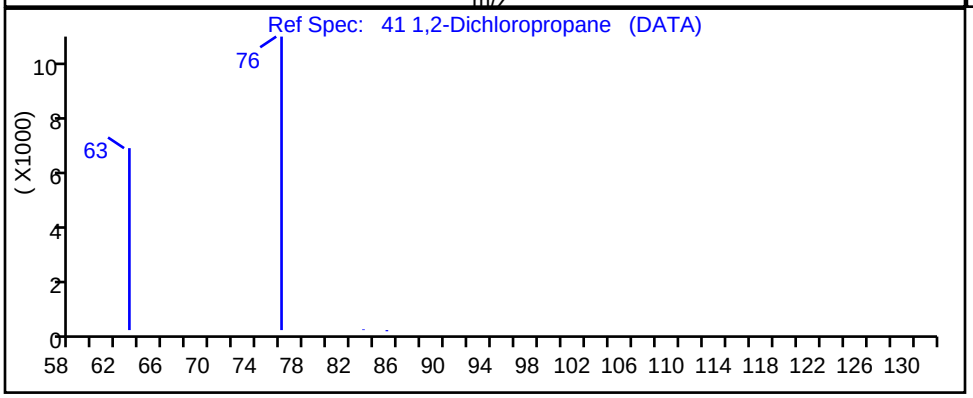
Processing Results











RT	Mass	Response	Amount
14.79	76.00	64	0.002385
14.82	63.00	0	

Reviewer: vanommens, 19-Feb-2018 12:23:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8124 Lab Sample ID: 320-35716-9

Matrix: Air Lab File ID: MS1021808.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 17:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8124 Lab Sample ID: 320-35716-9

Matrix: Air Lab File ID: MS1021808.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 17:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.074	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021808.D
Lims ID: 320-35716-A-9
Client ID: 8124
Sample Type: Client
Inject. Date: 18-Feb-2018 17:40:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-9
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:23:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	11.608	11.608	0.000	78	57749	2.00	
*	2 1,4-Difluorobenzene	114	13.770	13.769	0.001	100	225376	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.462	20.461	0.001	100	183580	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	12.798	12.797	0.001	81	139763	1.97	
$	5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	129051	2.02	
$	6 4-Bromofluorobenzene (Surr	174	23.031	23.031	0.000	99	136168	1.96	
	18 Acetone	43	6.880	6.886	-0.006	99	10798	0.0743	

Reagents:

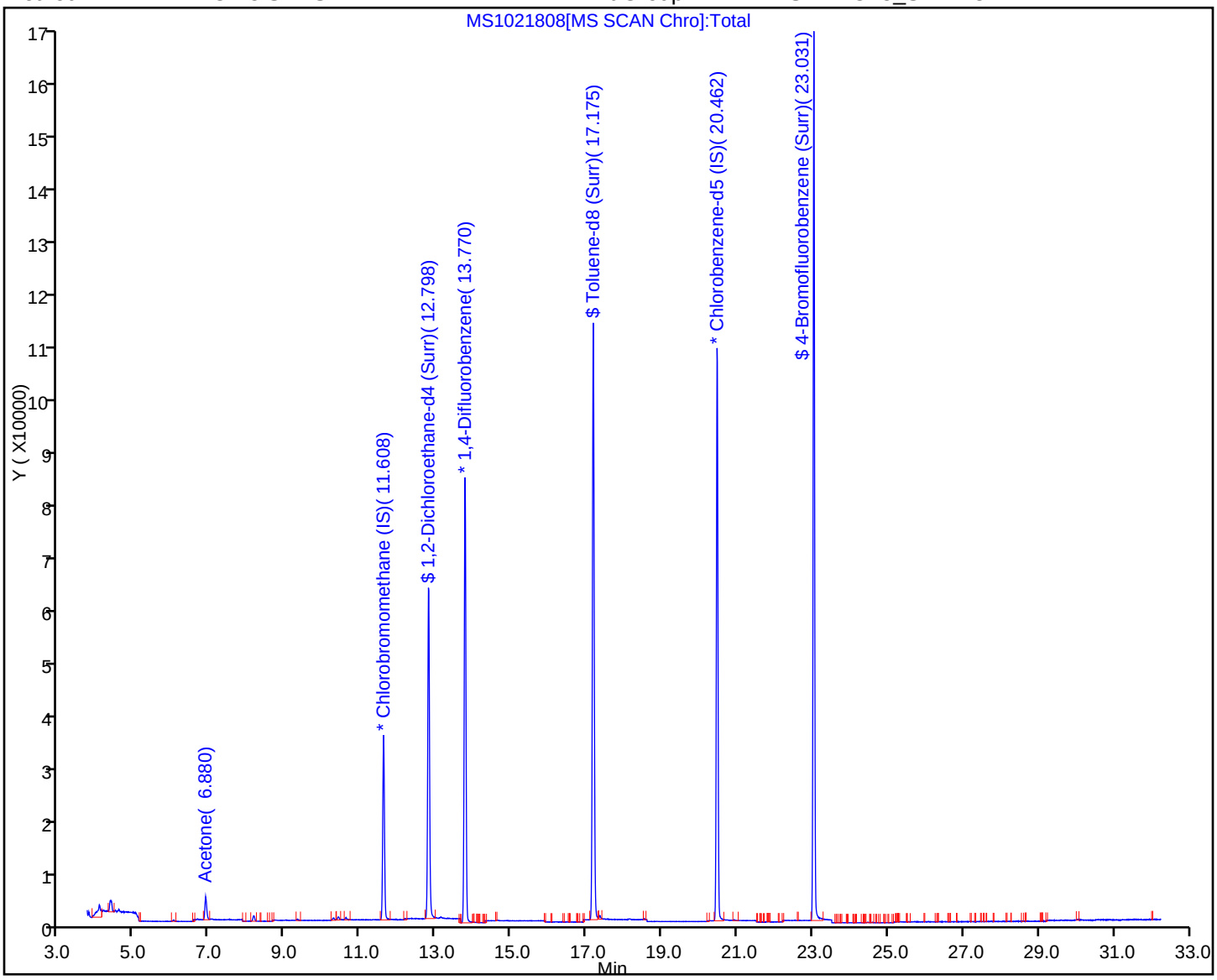
VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021808.D

Injection Date:	18-Feb-2018 17:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-9	Lab Sample ID:	320-35716-9		
Client ID:	8124				
Operator ID:	SRS	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



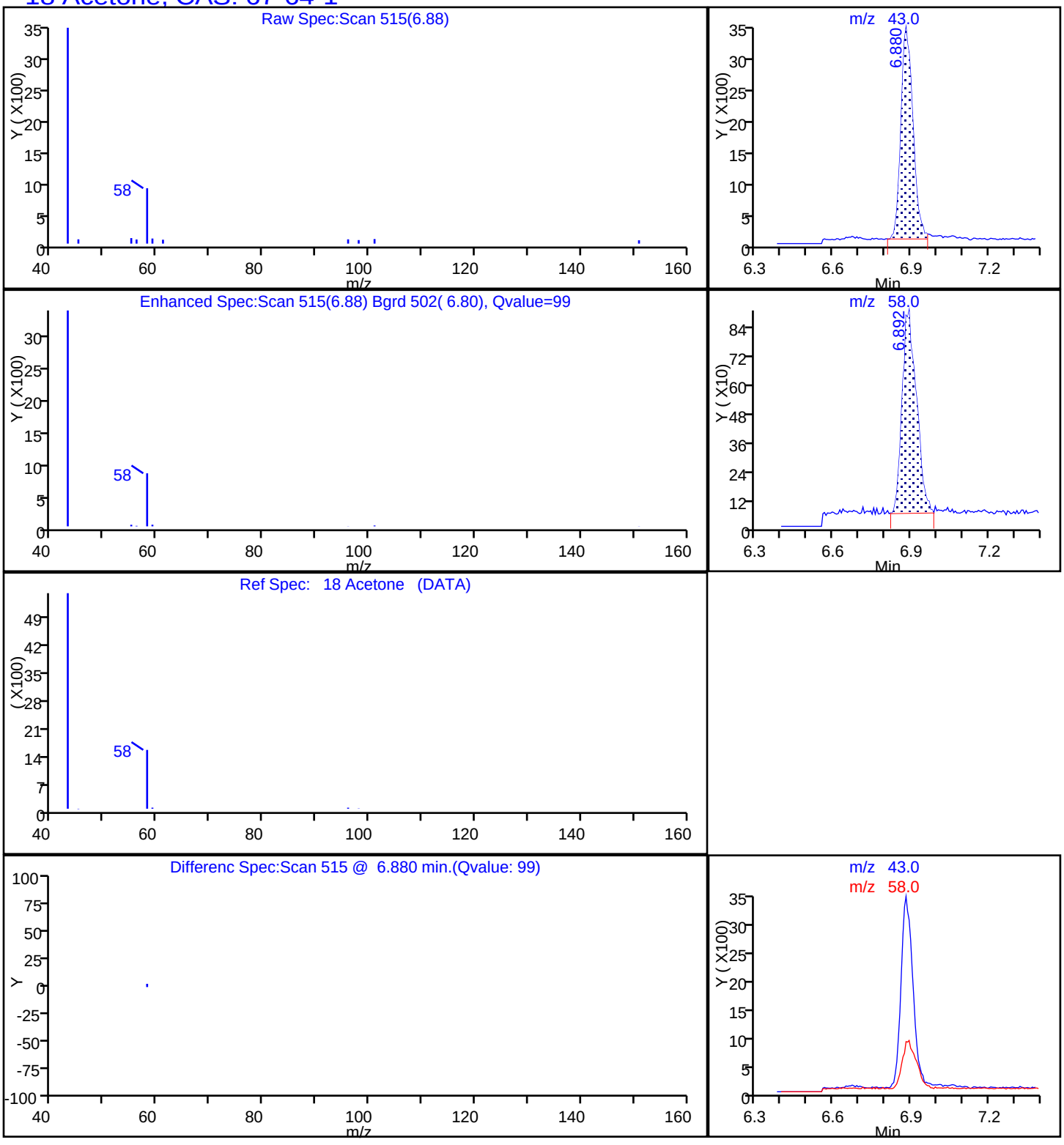
Report Date: 19-Feb-2018 14:14:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021808.D

Injection Date:	18-Feb-2018 17:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-9	Lab Sample ID:	320-35716-9		
Client ID:	8124				
Operator ID:	SRS	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



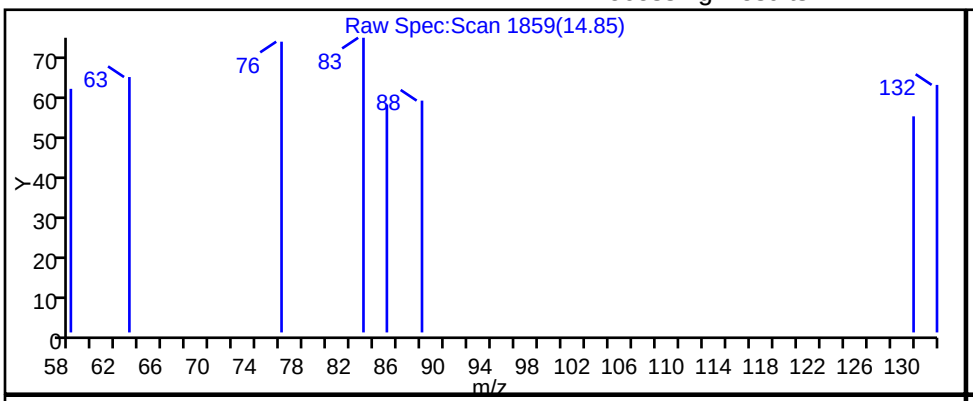
User Disabled Compound Report

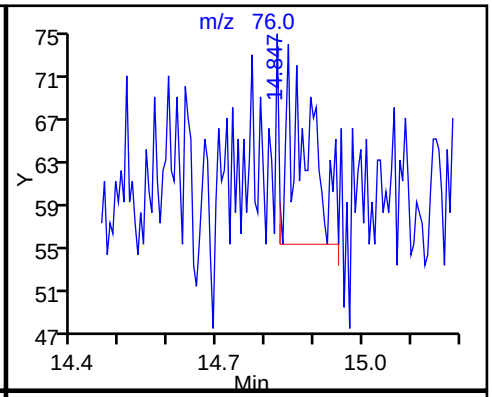
TestAmerica Sacramento

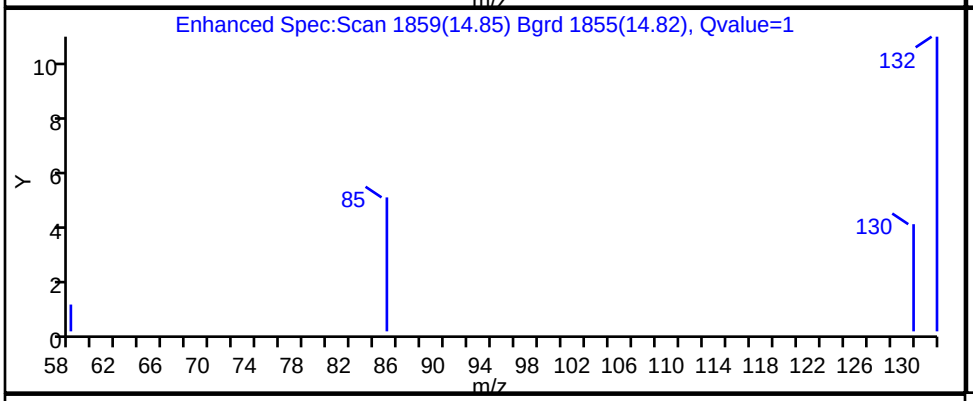
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021808.D				
Injection Date:	18-Feb-2018 17:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-9	Lab Sample ID:	320-35716-9		
Client ID:	8124				
Operator ID:	SRS	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

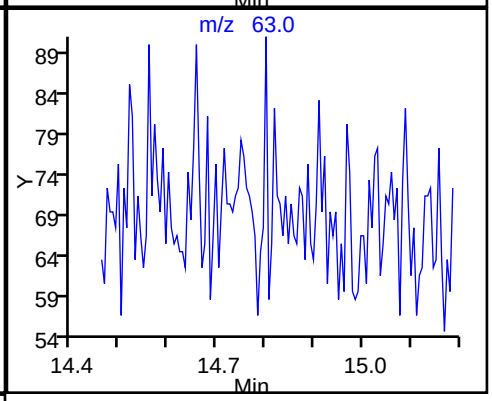
41 1,2-Dichloropropane, CAS: 78-87-5

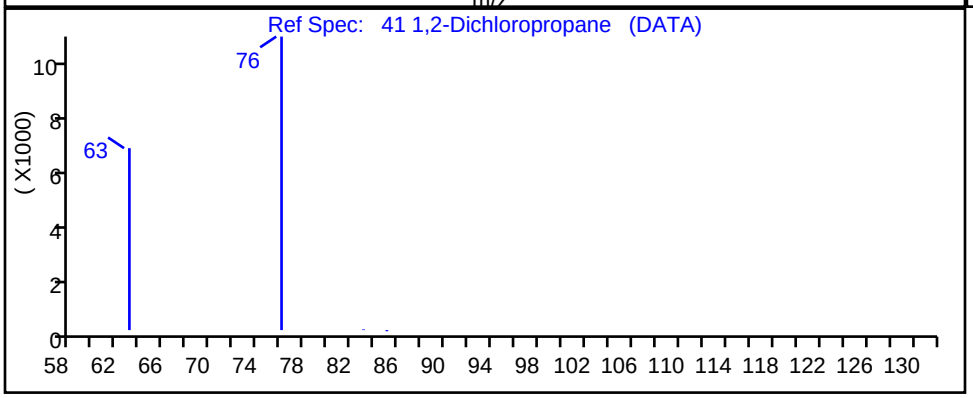
Processing Results











RT	Mass	Response	Amount
14.85	76.00	58	0.002049
14.82	63.00	0	

Reviewer: vanommens, 19-Feb-2018 12:23:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000150 Lab Sample ID: 320-35716-10

Matrix: Air Lab File ID: MS1021809.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 18:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 34000150 Lab Sample ID: 320-35716-10

Matrix: Air Lab File ID: MS1021809.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 18:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.11	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D
Lims ID: 320-35716-A-10
Client ID: 34000150
Sample Type: Client
Inject. Date: 18-Feb-2018 18:40:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-10
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:25:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.613	11.608	0.005	78	54626	2.00	
* 2 1,4-Difluorobenzene	114	13.773	13.769	0.004	100	208724	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.468	20.461	0.007	99	169187	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.805	12.797	0.008	94	131884	2.01	
$ 5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	119299	2.01	
$ 6 4-Bromofluorobenzene (Surr	174	23.031	23.031	0.000	98	126152	1.97	
15 Trichlorofluoromethane	101	6.032	6.027	0.005	94	468	0.002910	7a
18 Acetone	43	6.892	6.886	0.006	99	15133	0.1100	a
22 Methylene Chloride	49	8.164	8.159	0.005	60	1388	0.0238	7a
46 Toluene	91	17.348	17.342	0.006	100	696	0.003358	7a
61 1,2,3-Trichloropropane	110	23.024	23.114	-0.090	3	245	0.006628	a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

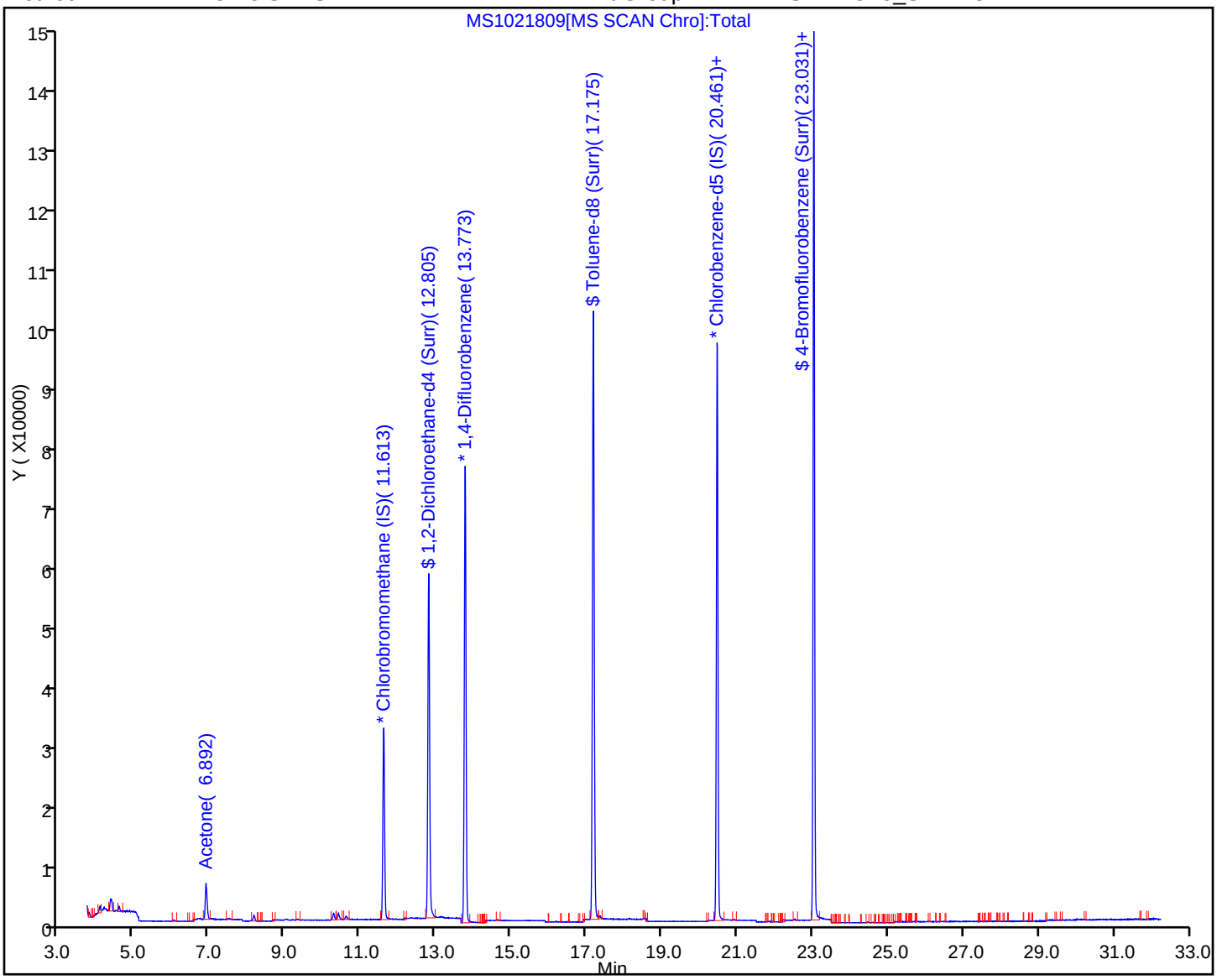
VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D

Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



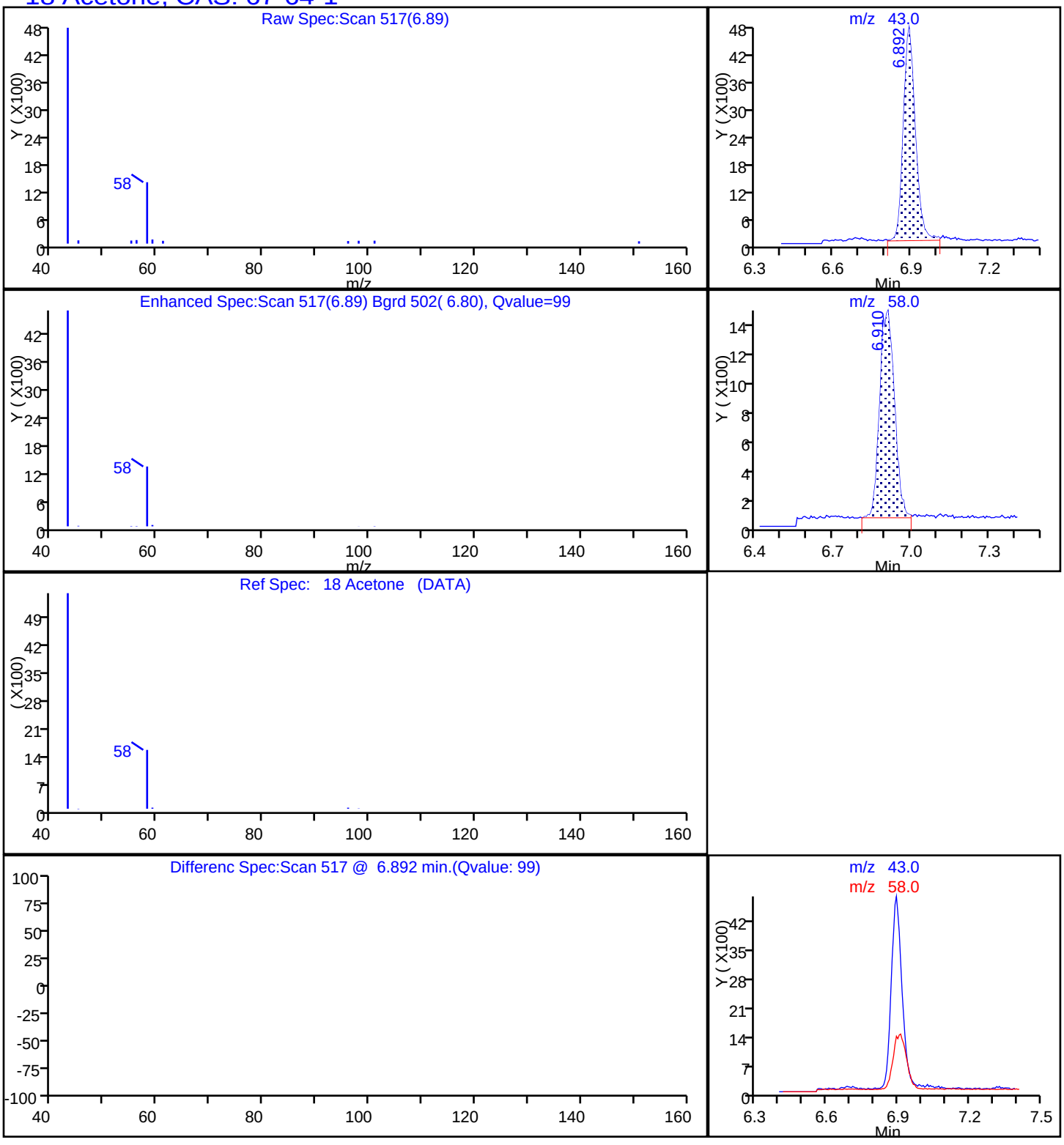
Report Date: 19-Feb-2018 14:14:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D

Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

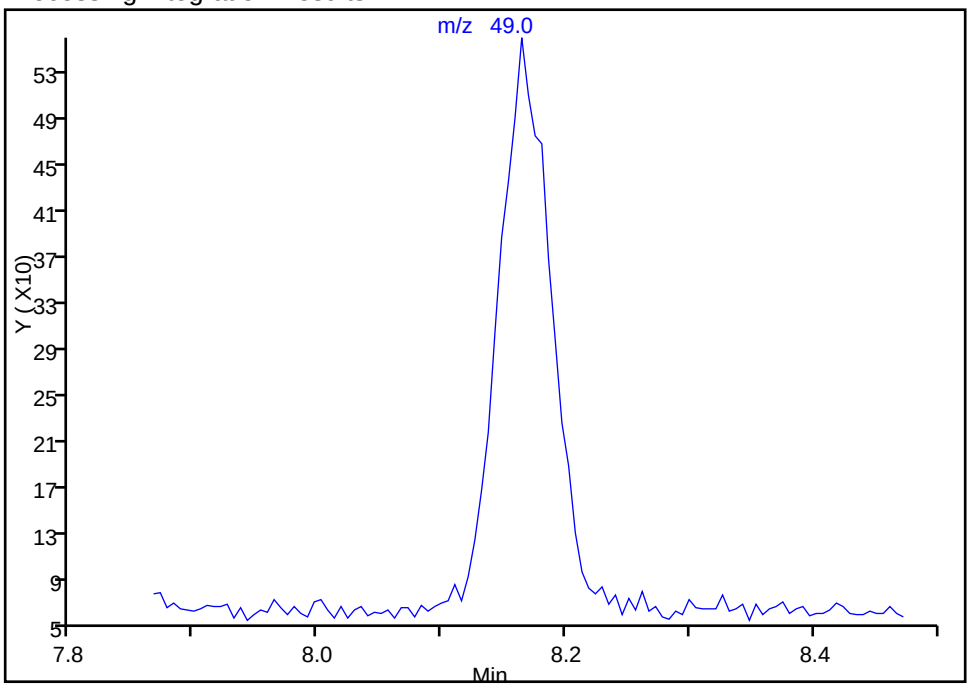
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D				
Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

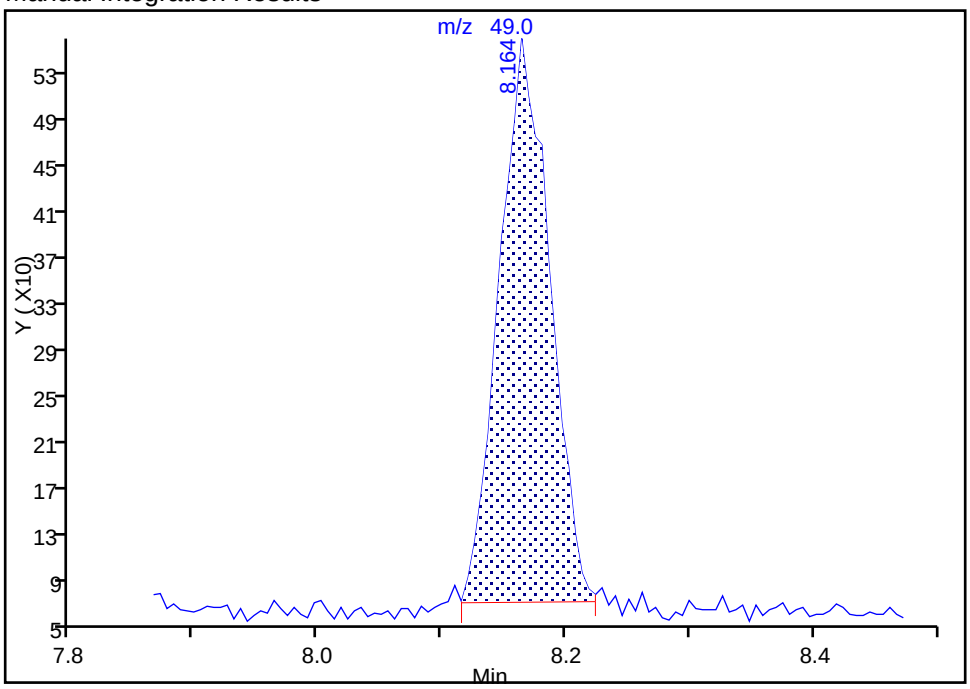
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.16
Area: 1388
Amount: 0.023847
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:24:22
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

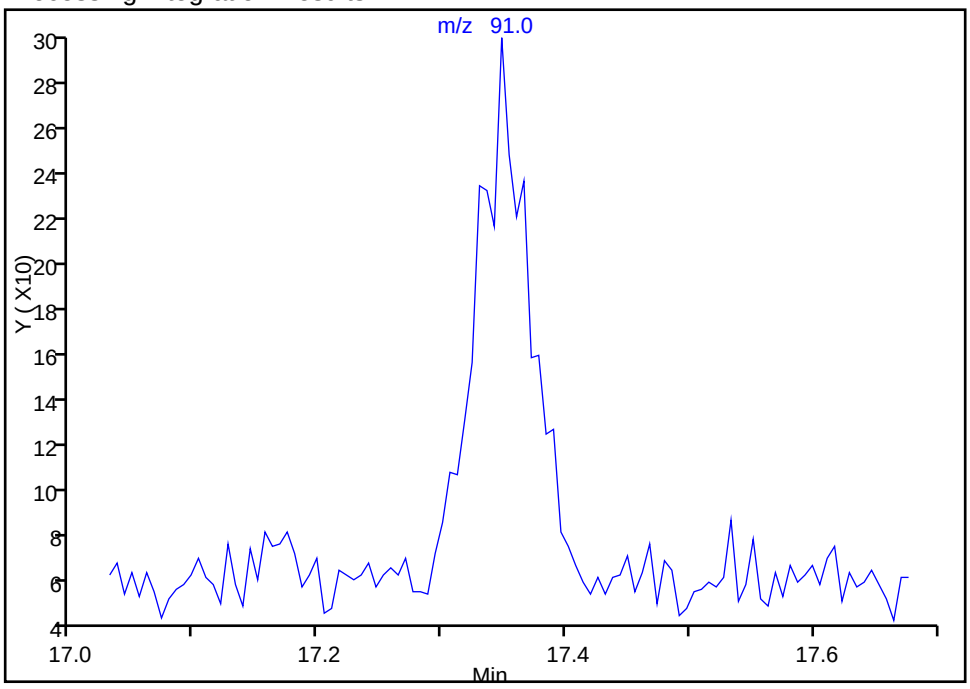
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Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

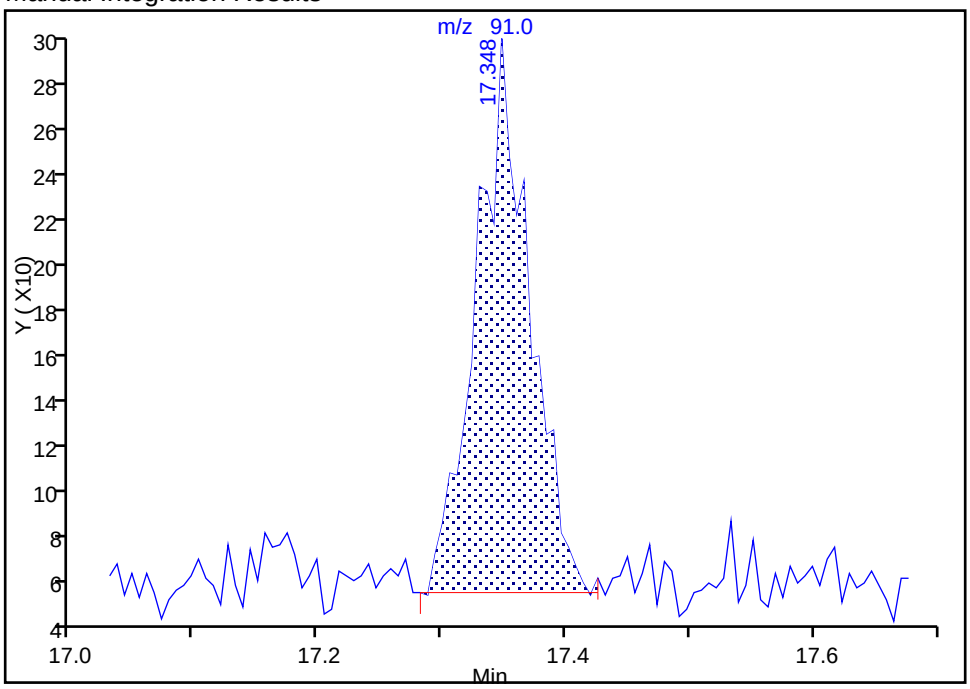
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 696
Amount: 0.003358
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:24:34
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

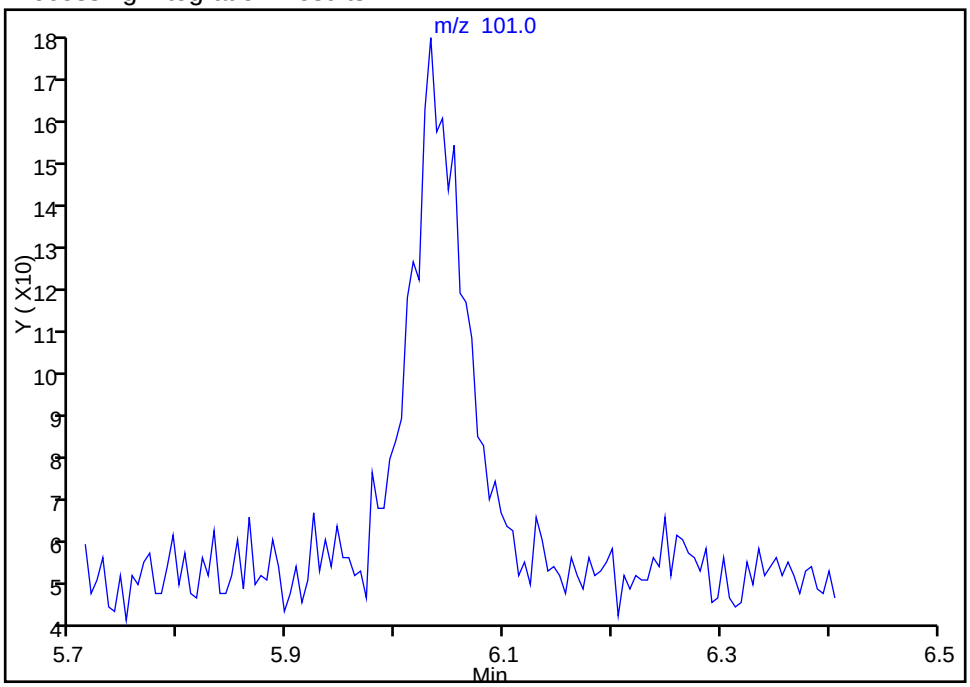
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D				
Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

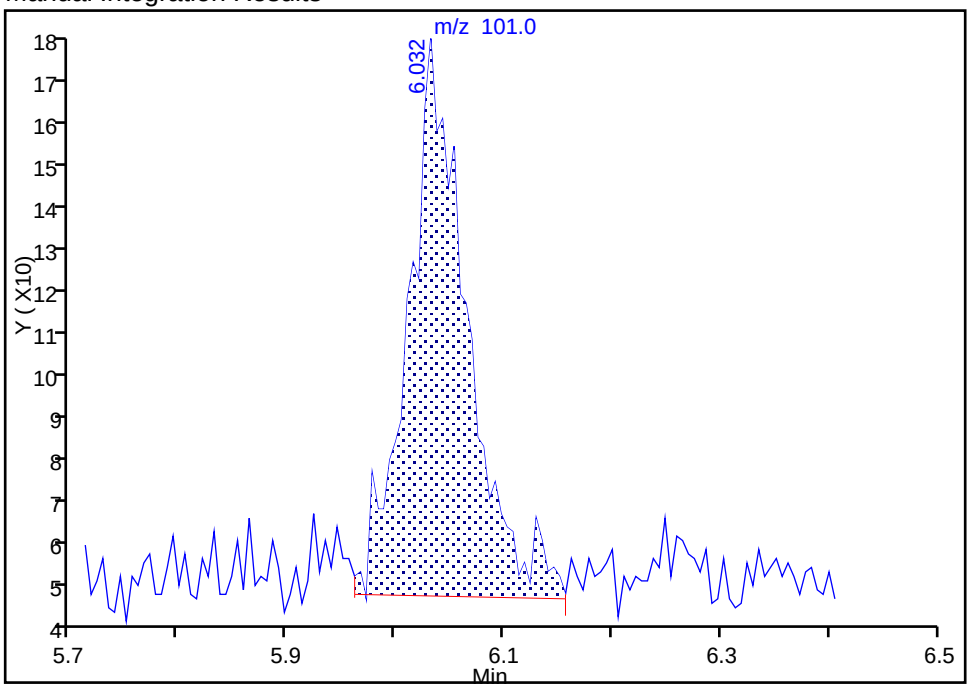
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 468
Amount: 0.002910
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:24:13
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

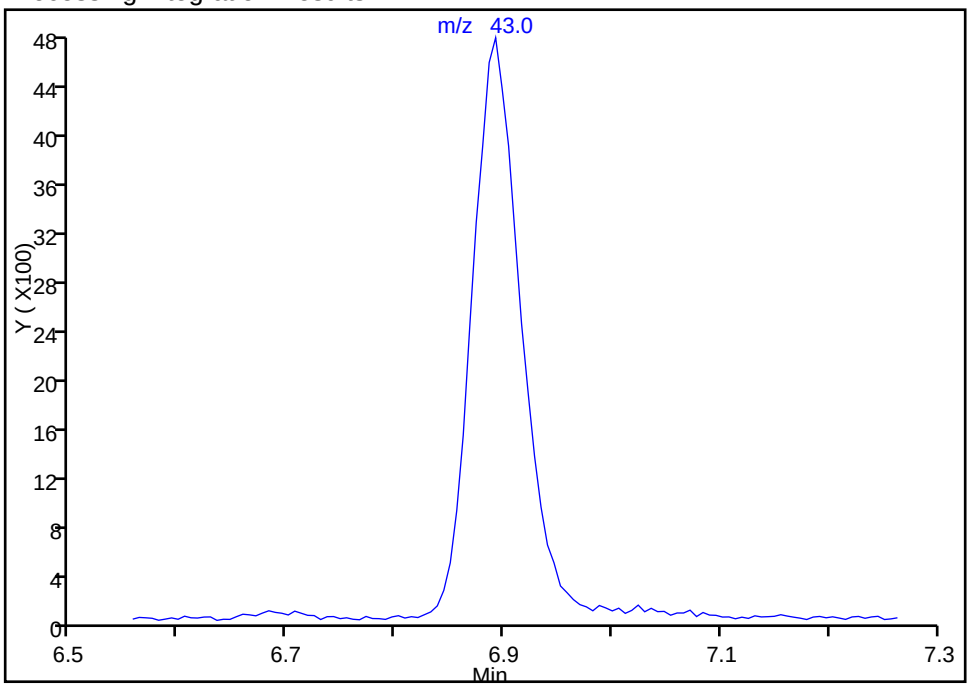
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D				
Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1

Signal: 1

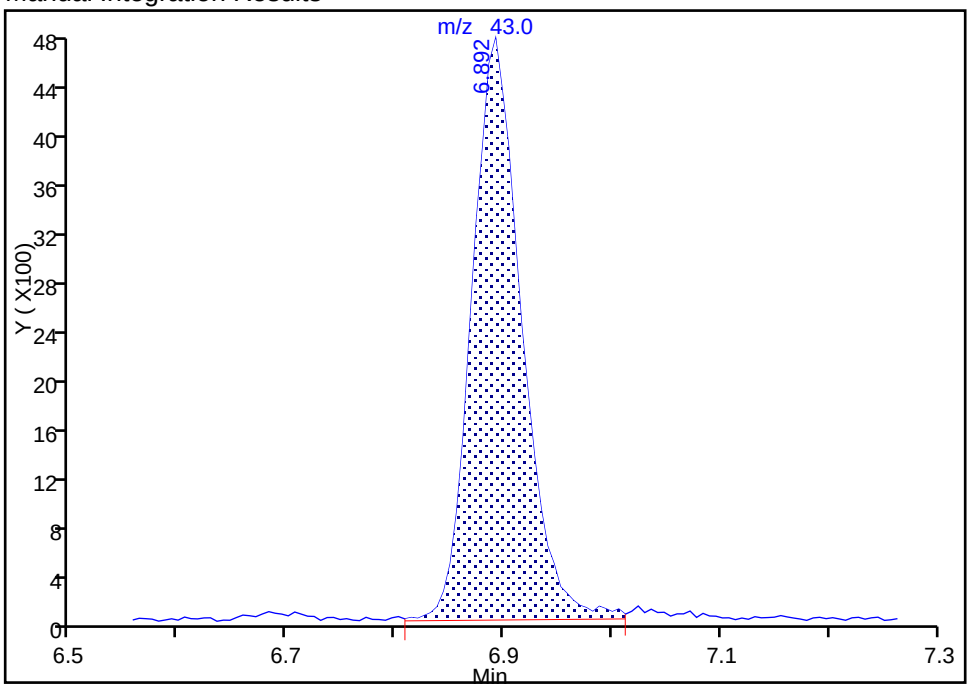
Not Detected
Expected RT: 6.89

Processing Integration Results



Manual Integration Results

RT: 6.89
Area: 15133
Amount: 0.110039
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:24:15
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

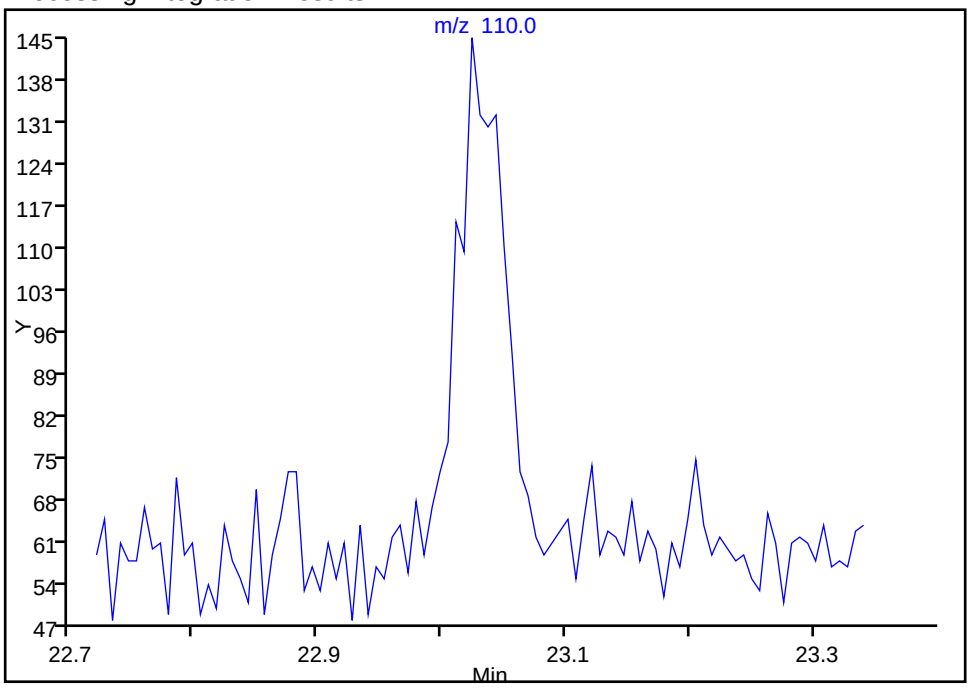
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021809.D				
Injection Date:	18-Feb-2018 18:40:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-10	Lab Sample ID:	320-35716-10		
Client ID:	34000150				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

61 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

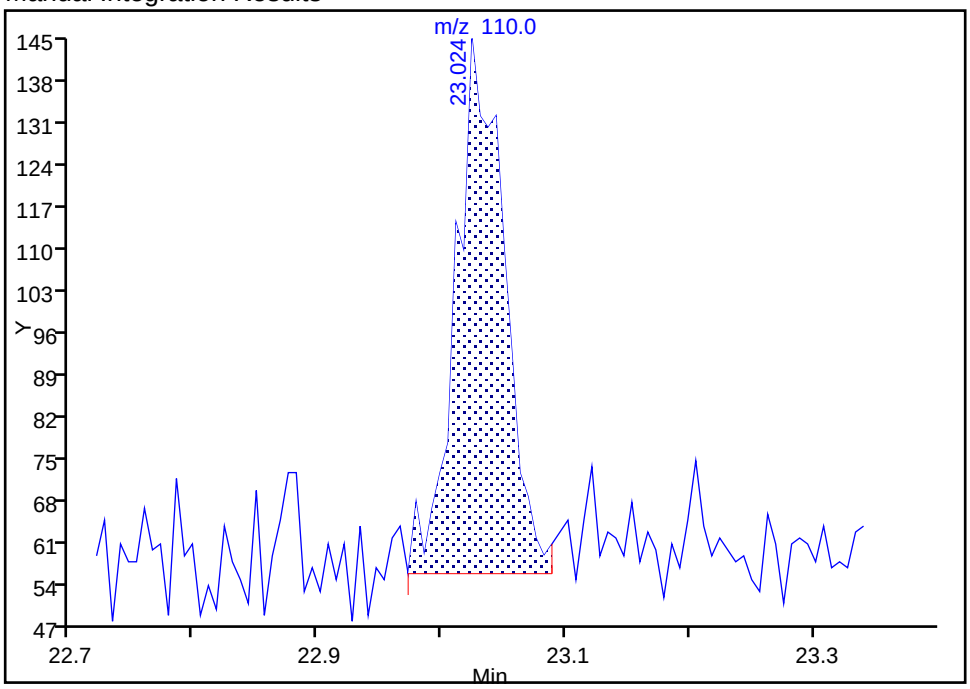
Not Detected
Expected RT: 23.11

Processing Integration Results



Manual Integration Results

RT: 23.02
Area: 245
Amount: 0.006628
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:24:47
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8303 Lab Sample ID: 320-35716-11

Matrix: Air Lab File ID: MS1021811.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 20:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8303 Lab Sample ID: 320-35716-11

Matrix: Air Lab File ID: MS1021811.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 20:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.065	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D
Lims ID: 320-35716-A-11
Client ID: 8303
Sample Type: Client
Inject. Date: 18-Feb-2018 20:34:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-11
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:26:10

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	11.607	11.608	-0.001	78	69314	2.00	
*	2 1,4-Difluorobenzene	114	13.773	13.769	0.004	100	272613	2.00	
*	3 Chlorobenzene-d5 (IS)	117	20.468	20.461	0.007	99	220851	2.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	12.805	12.797	0.008	69	168603	1.96	
$	5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	154615	2.00	
$	6 4-Bromofluorobenzene (Surr	174	23.030	23.031	-0.001	98	166808	2.00	
	15 Trichlorofluoromethane	101	6.021	6.027	-0.006	90	400	0.001960	7a
	18 Acetone	43	6.886	6.886	0.000	98	11260	0.0645	
	22 Methylene Chloride	49	8.164	8.159	0.005	61	1688	0.0229	7a
	46 Toluene	91	17.348	17.342	0.006	95	899	0.003321	7a
	61 1,2,3-Trichloropropane	110	23.037	23.114	-0.077	10	339	0.007025	a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

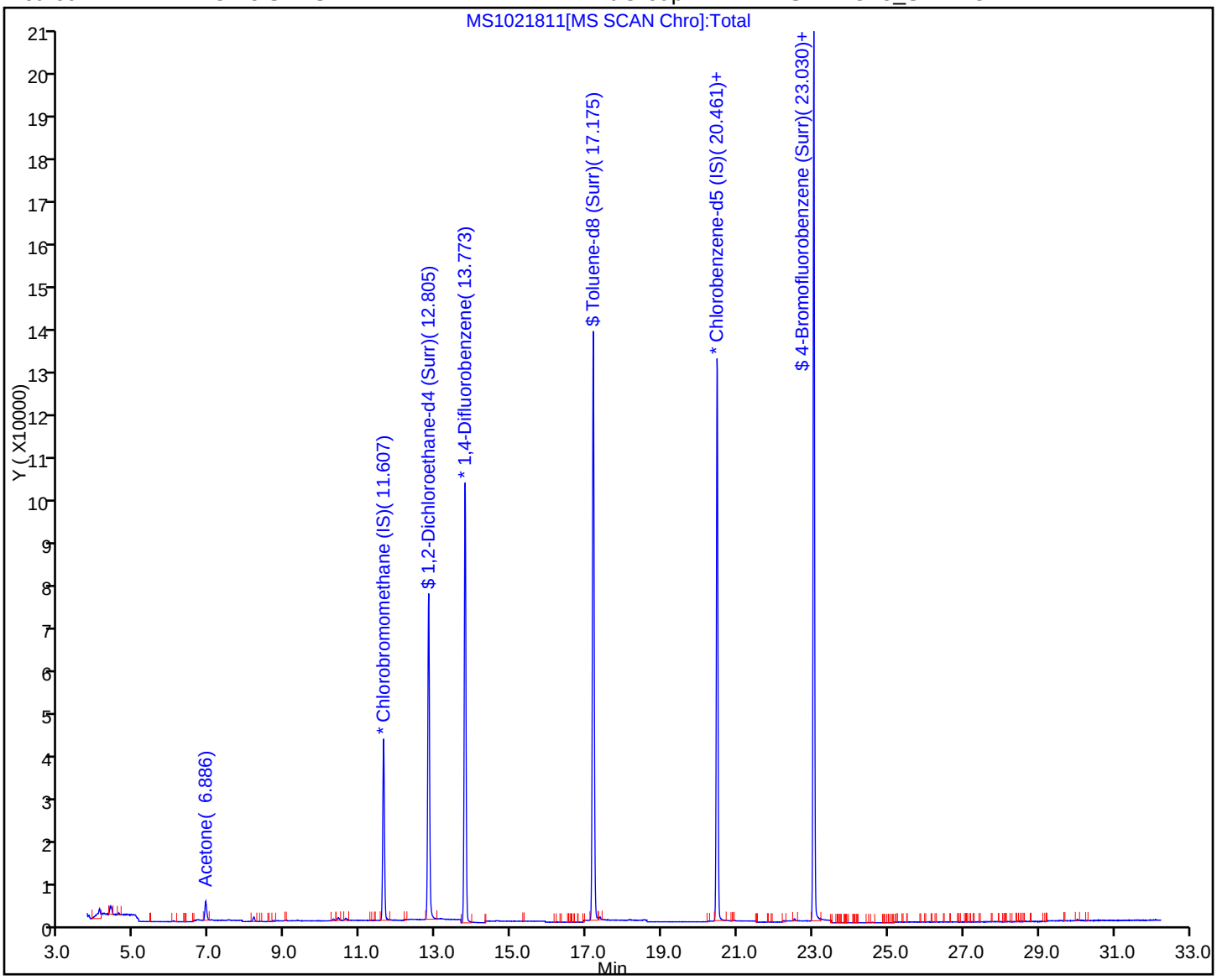
VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D

Injection Date:	18-Feb-2018 20:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-11	Lab Sample ID:	320-35716-11		
Client ID:	8303				
Operator ID:	SRS	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



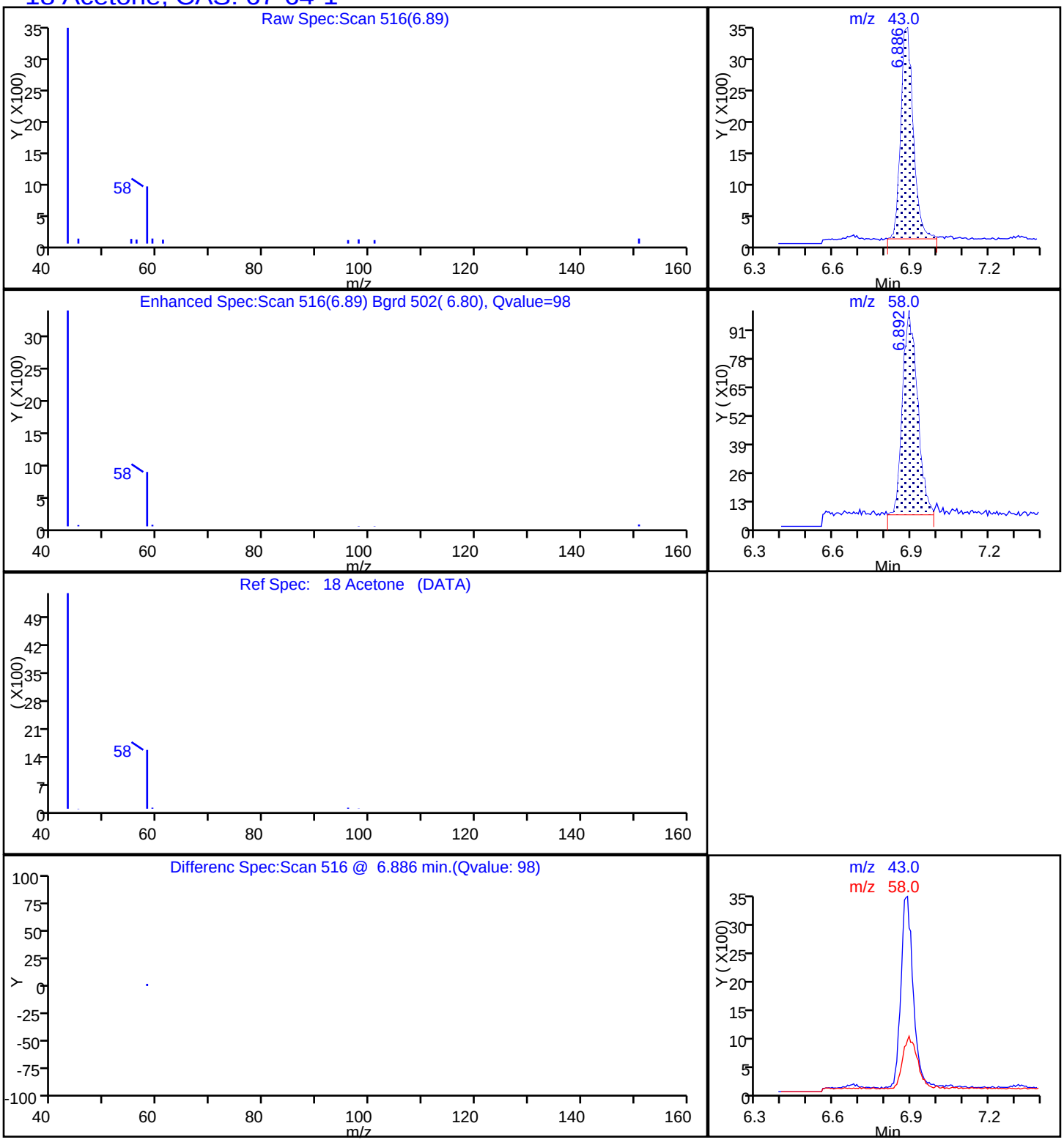
Report Date: 19-Feb-2018 14:14:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D

Injection Date:	18-Feb-2018 20:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-11	Lab Sample ID:	320-35716-11		
Client ID:	8303				
Operator ID:	SRS	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

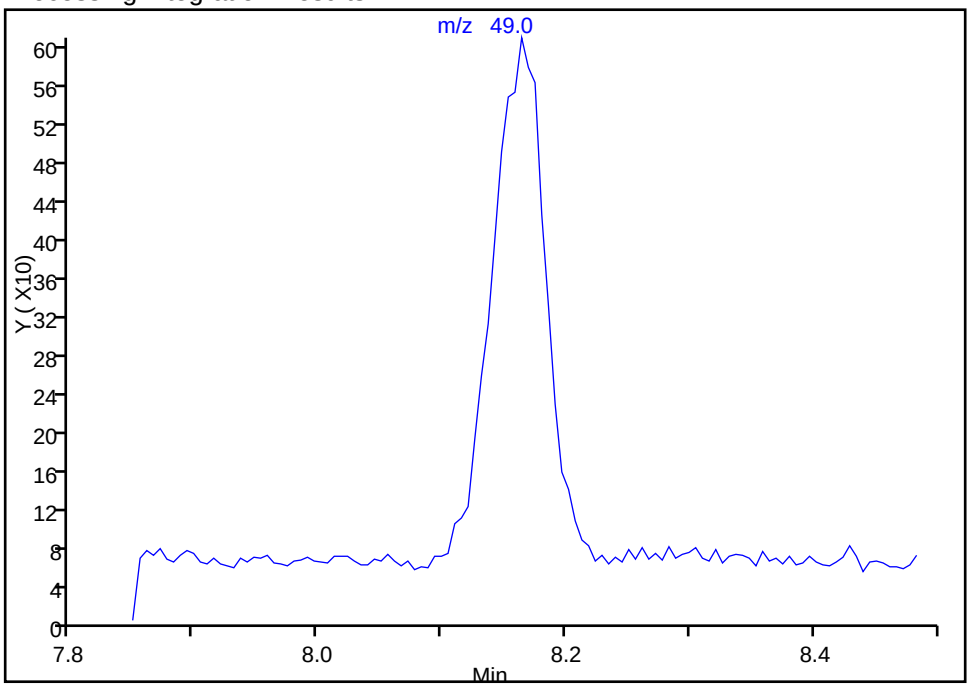
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D				
Injection Date:	18-Feb-2018 20:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-11	Lab Sample ID:	320-35716-11		
Client ID:	8303				
Operator ID:	SRS	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

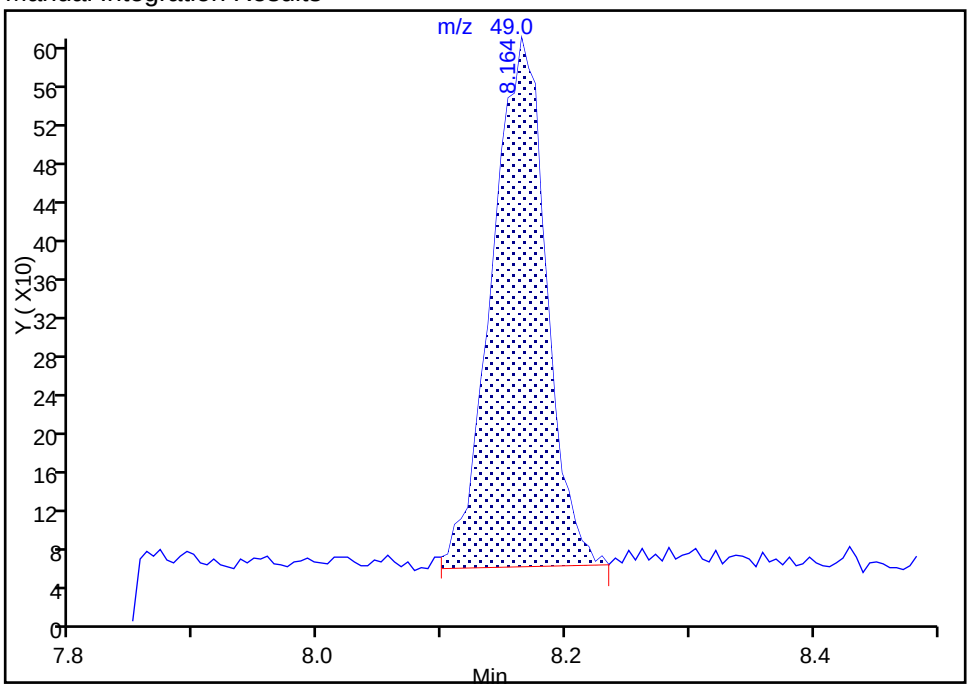
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.16
Area: 1688
Amount: 0.022855
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:25:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

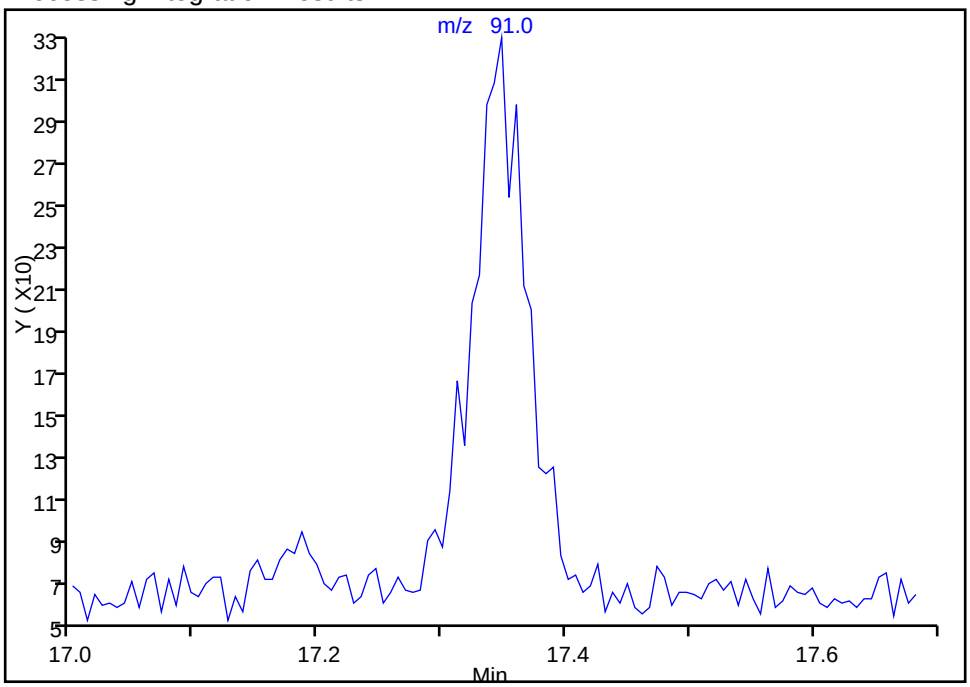
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D				
Injection Date:	18-Feb-2018 20:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-11	Lab Sample ID:	320-35716-11		
Client ID:	8303				
Operator ID:	SRS	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

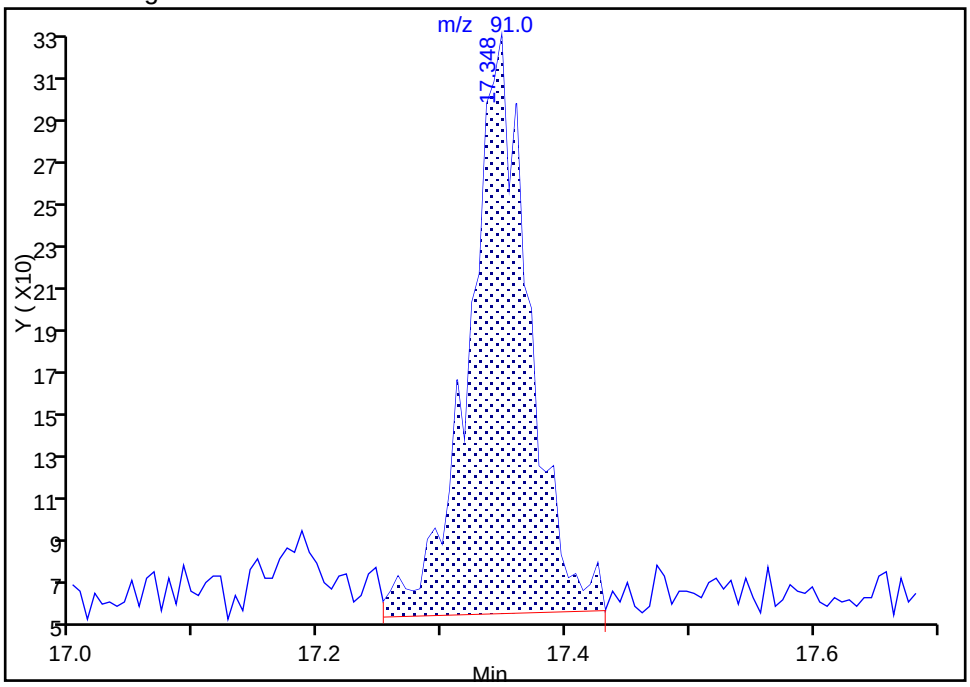
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 899
Amount: 0.003321
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:25:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

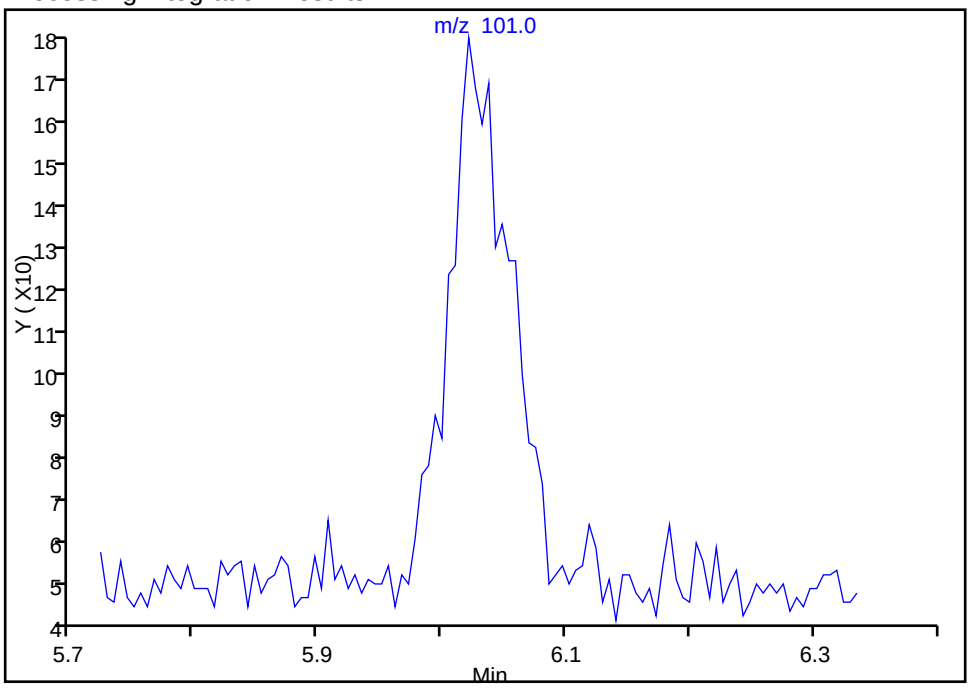
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D				
Injection Date:	18-Feb-2018 20:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-11	Lab Sample ID:	320-35716-11		
Client ID:	8303				
Operator ID:	SRS	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

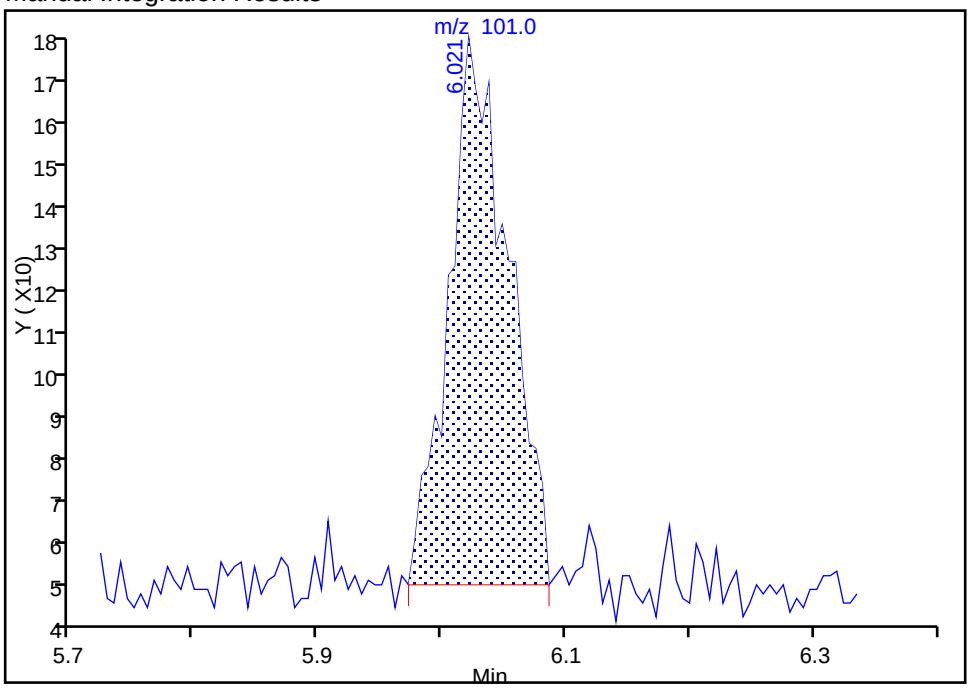
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.02
Area: 400
Amount: 0.001960
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:25:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

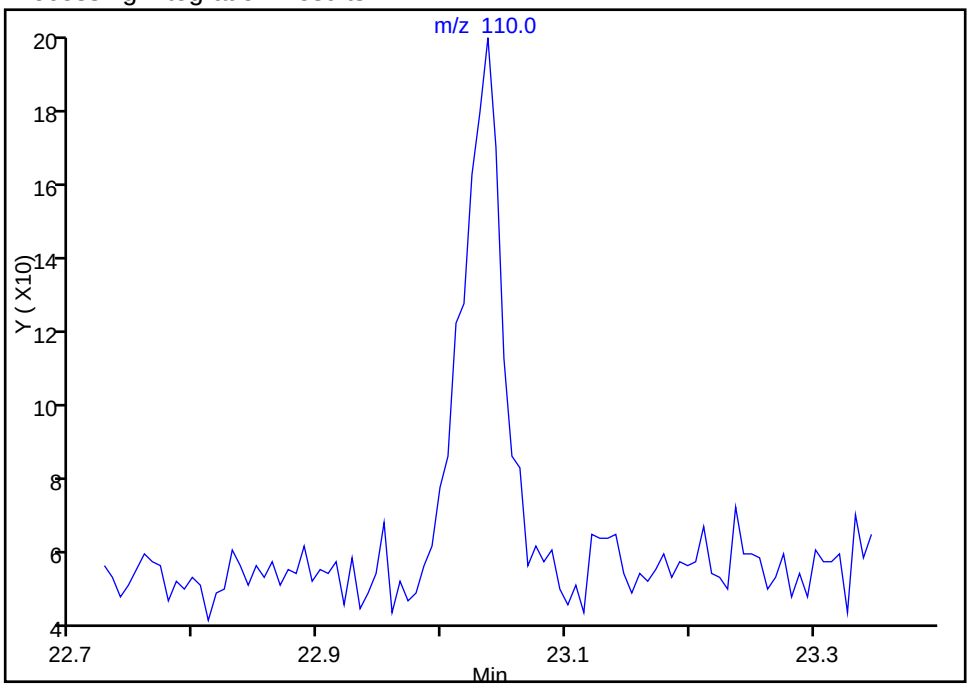
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021811.D				
Injection Date:	18-Feb-2018 20:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-11	Lab Sample ID:	320-35716-11		
Client ID:	8303				
Operator ID:	SRS	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

61 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

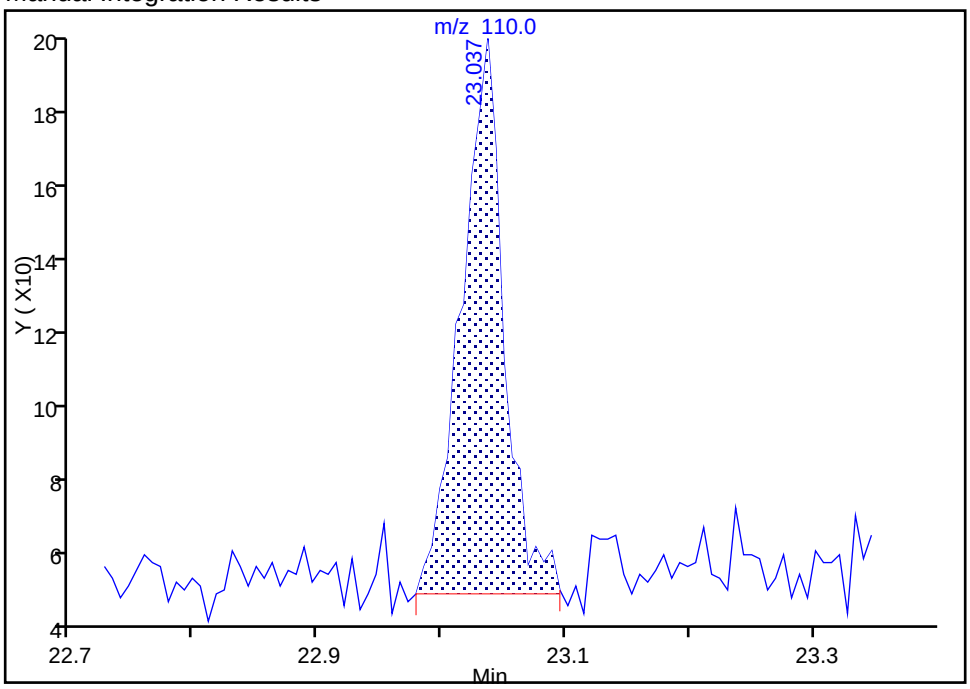
Not Detected
Expected RT: 23.11

Processing Integration Results



Manual Integration Results

RT: 23.04
Area: 339
Amount: 0.007025
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:25:56
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8126 Lab Sample ID: 320-35716-12

Matrix: Air Lab File ID: MS1021812.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 21:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-71-8	Dichlorodifluoromethane	ND		0.020	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Client Sample ID: 8126 Lab Sample ID: 320-35716-12

Matrix: Air Lab File ID: MS1021812.D

Analysis Method: TO-15 SIM Date Collected: 02/02/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 21:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208997 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
67-64-1	Acetone	0.13	J	0.20	0.040
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021812.D
Lims ID: 320-35716-A-12
Client ID: 8126
Sample Type: Client
Inject. Date: 18-Feb-2018 21:34:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35716-A-12
Operator ID: SRS Instrument ID: ATMS1

Method: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\TO-15 SIM SIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:04:11 Calib Date: 18-Feb-2018 12:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021803.D

Column 1 : Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: vanommens Date: 19-Feb-2018 12:27:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.607	11.608	-0.001	79	57086	2.00	
* 2 1,4-Difluorobenzene	114	13.769	13.769	0.000	100	219715	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.462	20.461	0.001	100	178323	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	12.797	12.797	0.000	65	137568	1.99	
$ 5 Toluene-d8 (Surr)	100	17.175	17.169	0.006	100	123715	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	23.031	23.031	0.000	97	128366	1.91	
15 Trichlorofluoromethane	101	6.027	6.027	0.000	89	475	0.002827	7a
18 Acetone	43	6.880	6.886	-0.006	99	18300	0.1273	
22 Methylene Chloride	49	8.159	8.159	0.000	66	1628	0.0268	7a
46 Toluene	91	17.336	17.342	-0.006	98	626	0.002869	7a
61 1,2,3-Trichloropropane	110	23.031	23.114	-0.083	3	294	0.007546	a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

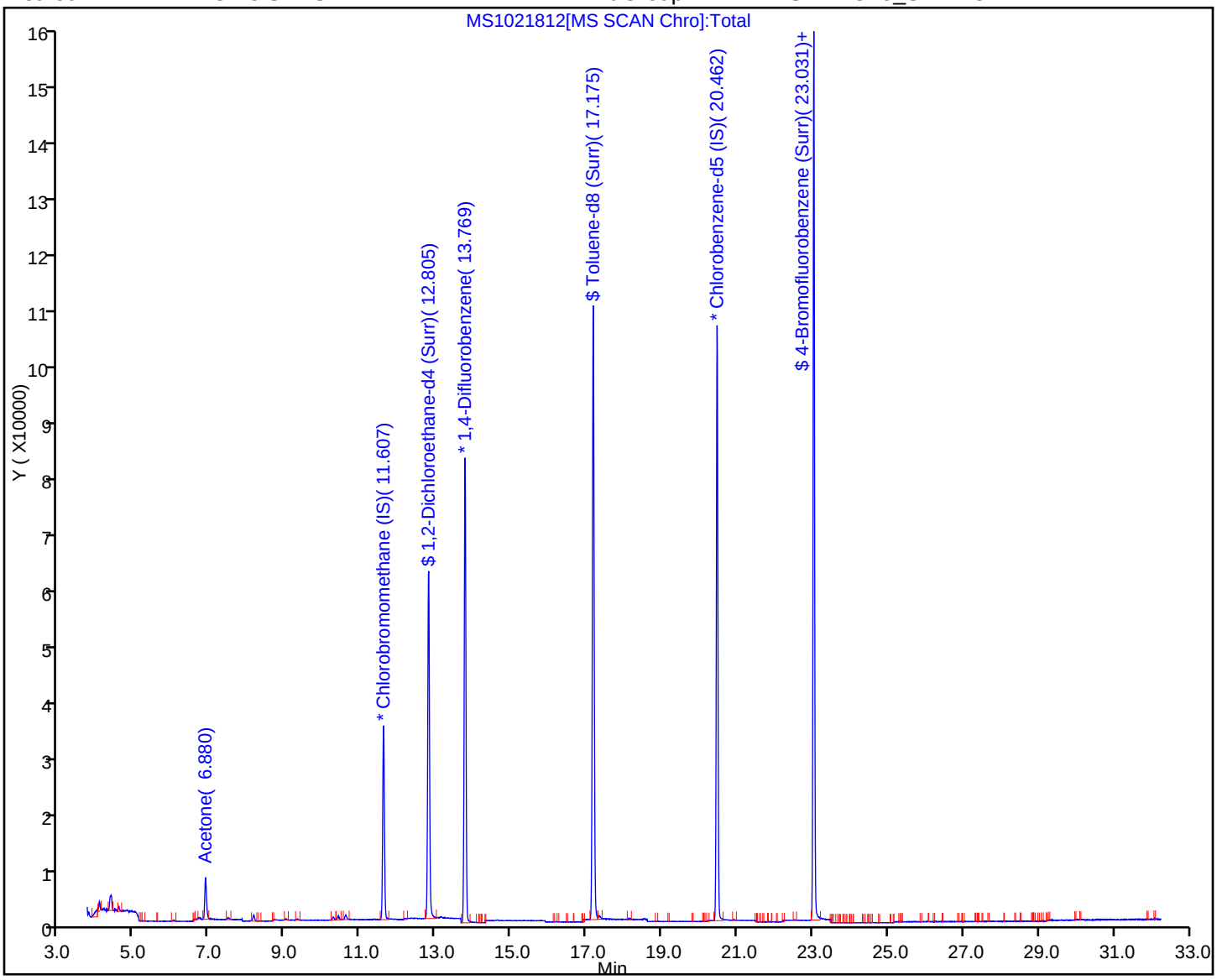
VAMSIS20_00108 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:14:28 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021812.D

Injection Date:	18-Feb-2018 21:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-12	Lab Sample ID:	320-35716-12		
Client ID:	8126				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		



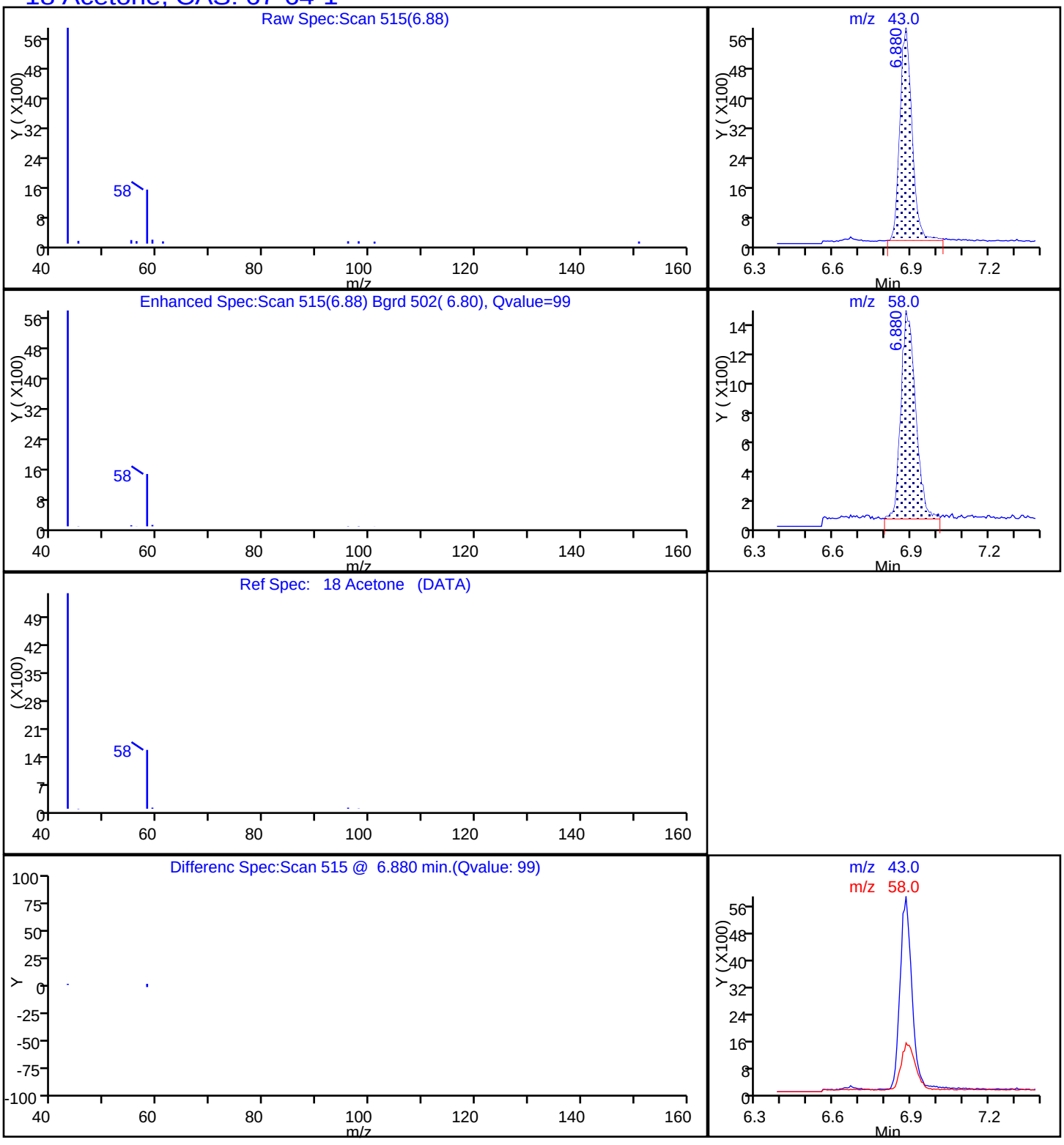
Report Date: 19-Feb-2018 14:14:28 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021812.D

Injection Date:	18-Feb-2018 21:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-12	Lab Sample ID:	320-35716-12		
Client ID:	8126				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

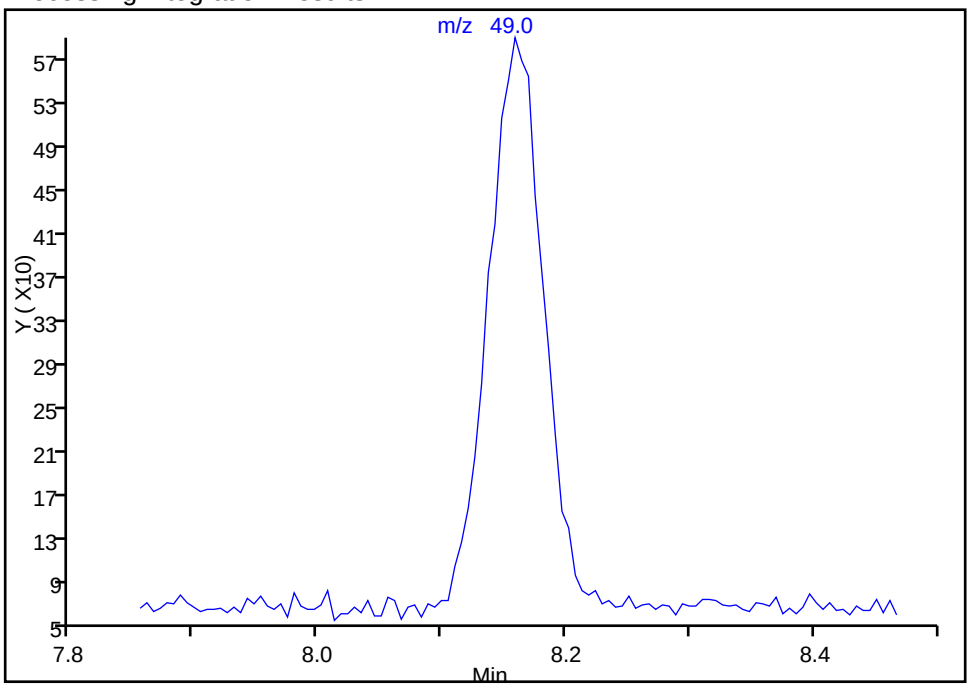
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Injection Date:	18-Feb-2018 21:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-12	Lab Sample ID:	320-35716-12		
Client ID:	8126				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

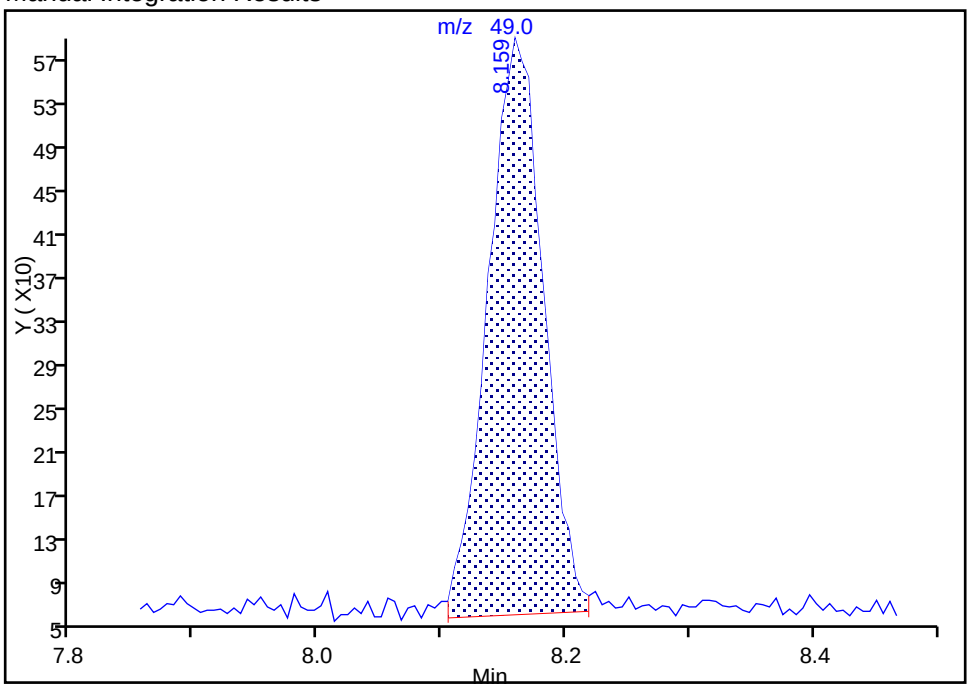
Not Detected
Expected RT: 8.16

Processing Integration Results



Manual Integration Results

RT: 8.16
Area: 1628
Amount: 0.026765
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:26:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

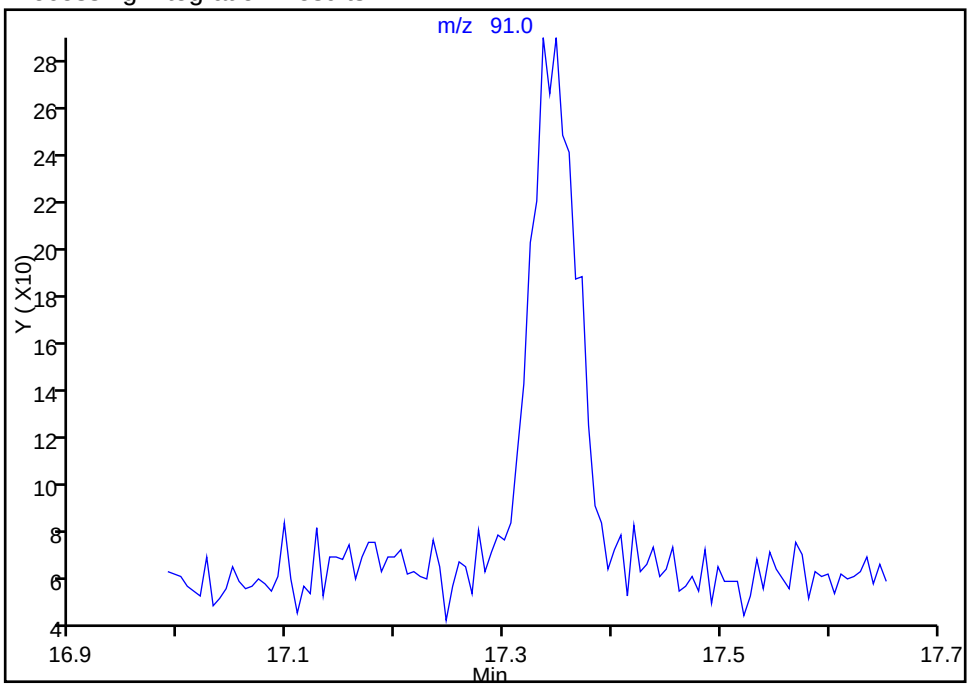
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021812.D				
Injection Date:	18-Feb-2018 21:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-12	Lab Sample ID:	320-35716-12		
Client ID:	8126				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

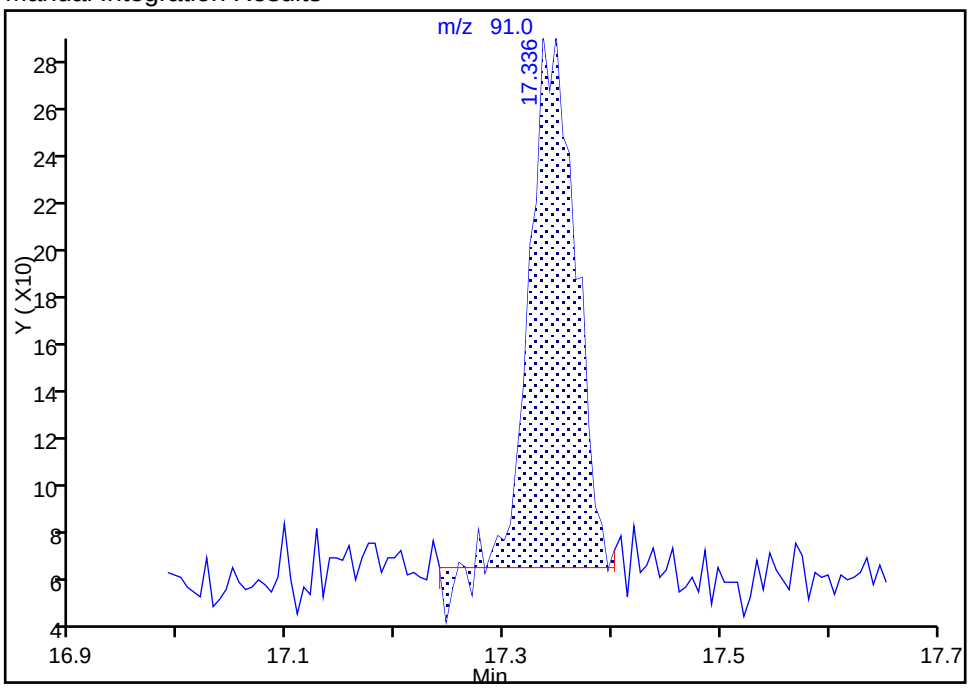
Not Detected
Expected RT: 17.34

Processing Integration Results



Manual Integration Results

RT: 17.34
Area: 626
Amount: 0.002869
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:26:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

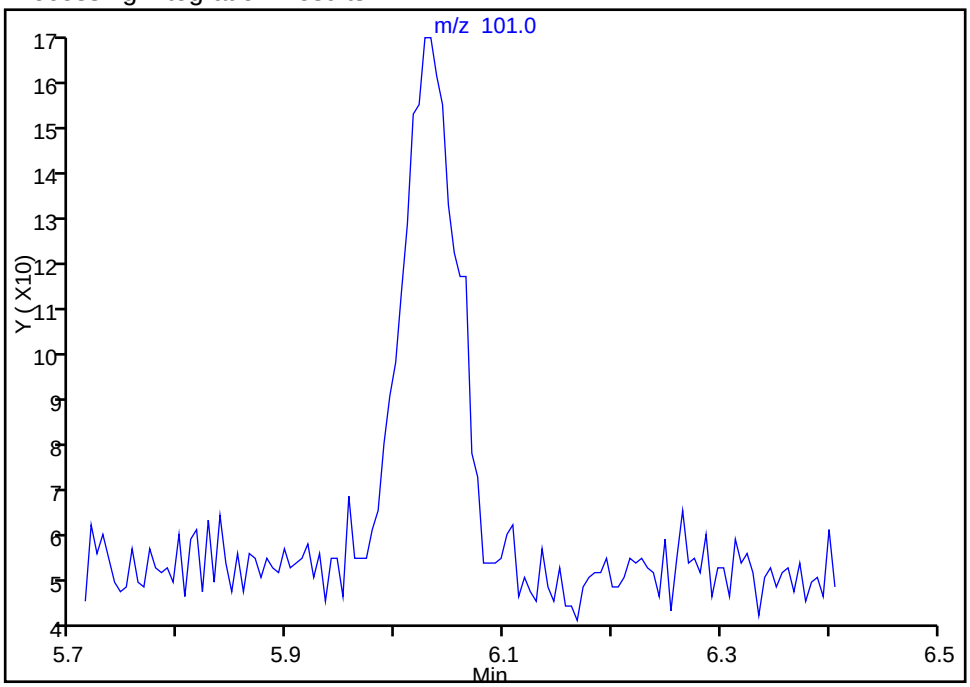
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021812.D				
Injection Date:	18-Feb-2018 21:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-12	Lab Sample ID:	320-35716-12		
Client ID:	8126				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

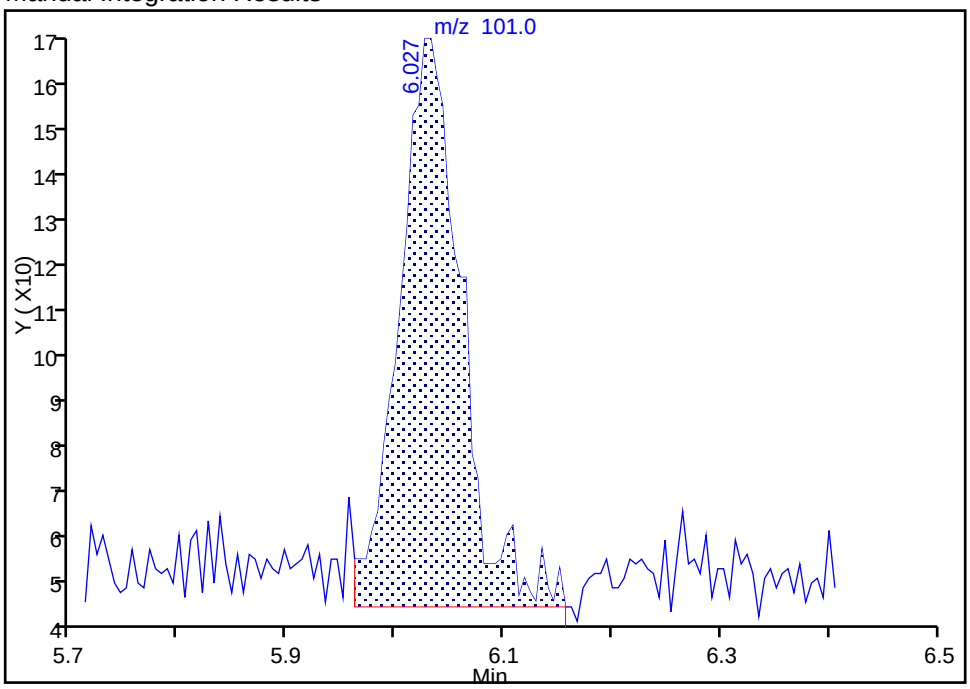
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 475
Amount: 0.002827
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:26:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

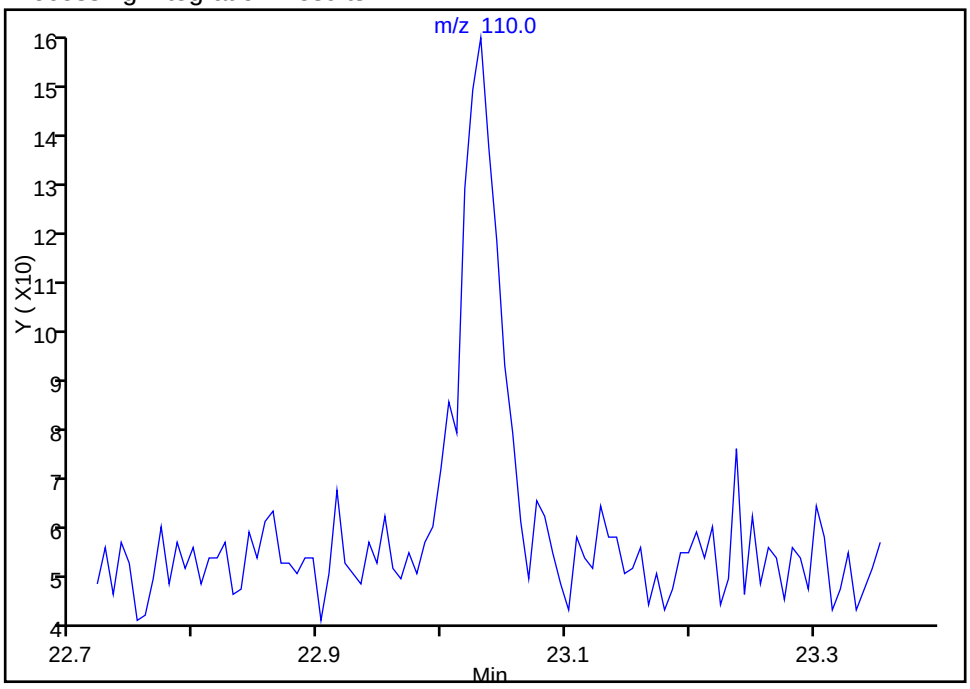
Data File:	\\ChromNA\Sacramento\ChromData\ATMS1\20180218-54226.b\MS1021812.D				
Injection Date:	18-Feb-2018 21:34:30	Instrument ID:	ATMS1		
Lims ID:	320-35716-A-12	Lab Sample ID:	320-35716-12		
Client ID:	8126				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO-15 SIM SIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

61 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

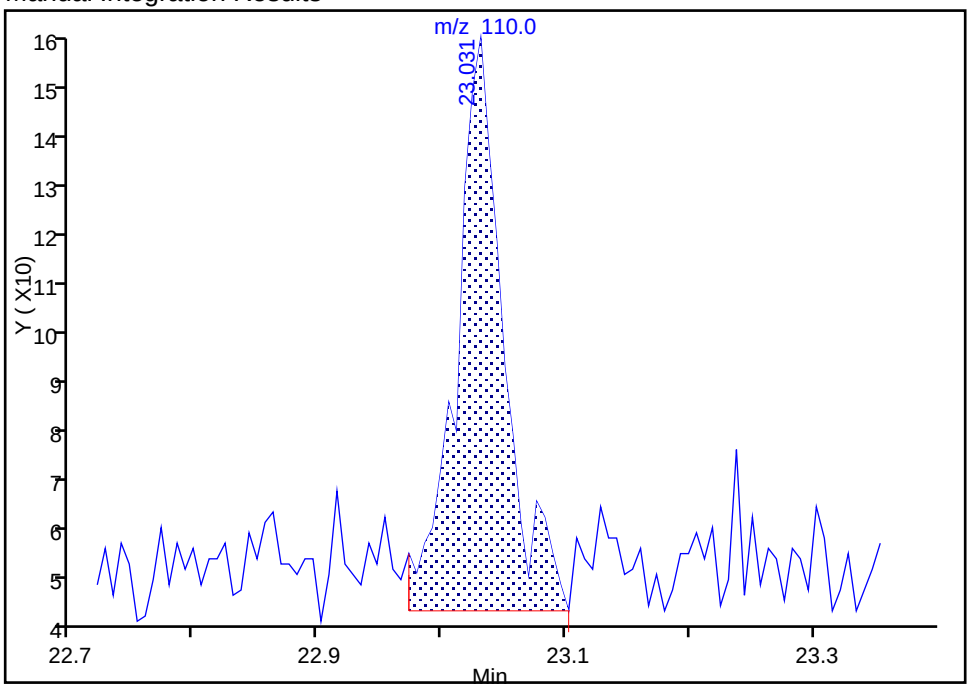
Not Detected
Expected RT: 23.11

Processing Integration Results



Manual Integration Results

RT: 23.03
Area: 294
Amount: 0.007546
Amount Units: ppb v/v



Reviewer: vanommens, 19-Feb-2018 12:26:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000355 Lab Sample ID: 320-35833-1

Matrix: Air Lab File ID: MS12021806.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.015	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	0.016	J	0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	0.0057	J	0.020	0.0050
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000355 Lab Sample ID: 320-35833-1

Matrix: Air Lab File ID: MS12021806.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	126		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021806.D
Lims ID: 320-35833-A-1
Client ID: 34000355
Sample Type: Client
Inject. Date: 18-Feb-2018 15:31:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-1
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:30:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	96	23256	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	111336	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.410	0.000	99	93268	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	98	62137	2.51	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	65914	2.00	
$ 6 4-Bromofluorobenzene (Surr	174	22.325	22.325	0.000	100	67388	1.99	
8 Dichlorodifluoromethane	85	4.298	4.281	0.015	98	678	0.0157	
10 Chloromethane	50	4.759	4.735	0.022	100	601	0.0374	
15 Trichlorofluoromethane	101	6.753	6.764	0.011	99	1163	0.0253	
18 Acetone	43	7.753	7.717	0.036	98	22930	0.8678	
19 1,1,2-Trichloro-1,2,2-trif	101	7.789	7.785	0.001	13	990	0.0335	
38 Benzene	78	13.889	13.889	0.000	100	691	0.0154	
40 Trichloroethene	130	15.254	15.250	0.004	95	102	0.005654	
46 Toluene	91	17.808	17.808	0.000	98	891	0.0164	

Reagents:

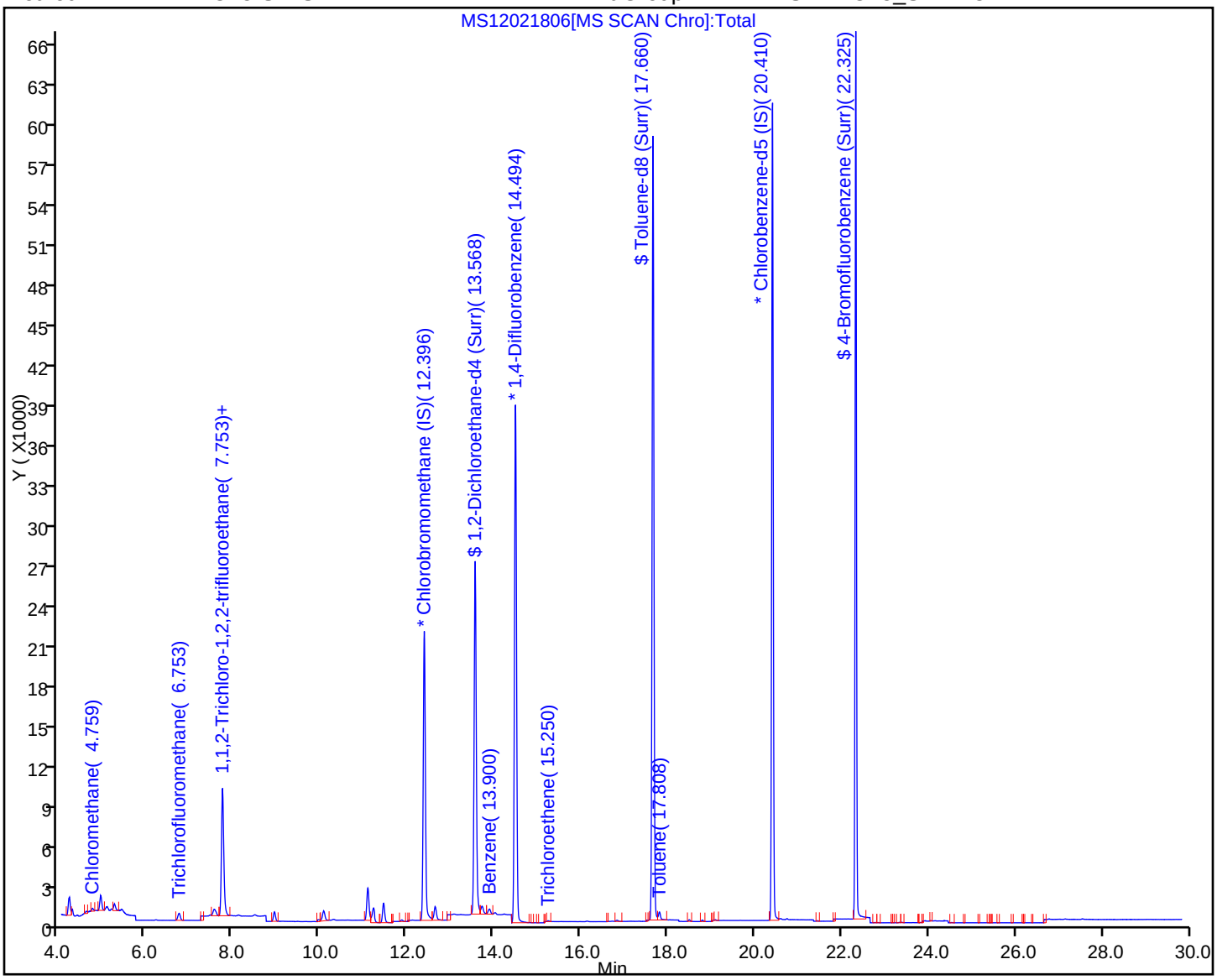
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021806.D

Injection Date:	18-Feb-2018 15:31:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-1	Lab Sample ID:	320-35833-1		
Client ID:	34000355				
Operator ID:	SRS	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



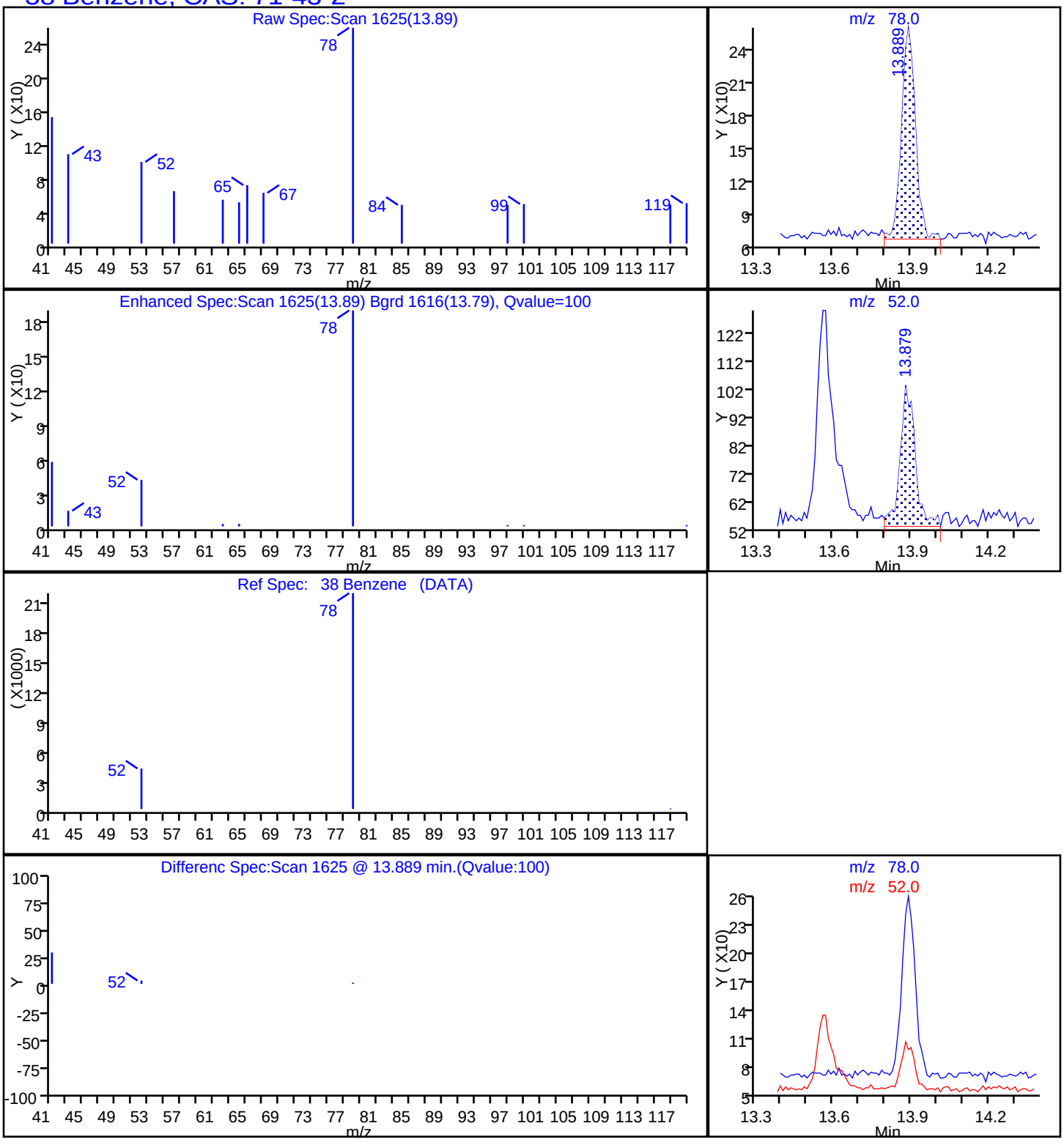
Report Date: 19-Feb-2018 14:13:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021806.D

Injection Date:	18-Feb-2018 15:31:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-1	Lab Sample ID:	320-35833-1		
Client ID:	34000355				
Operator ID:	SRS	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



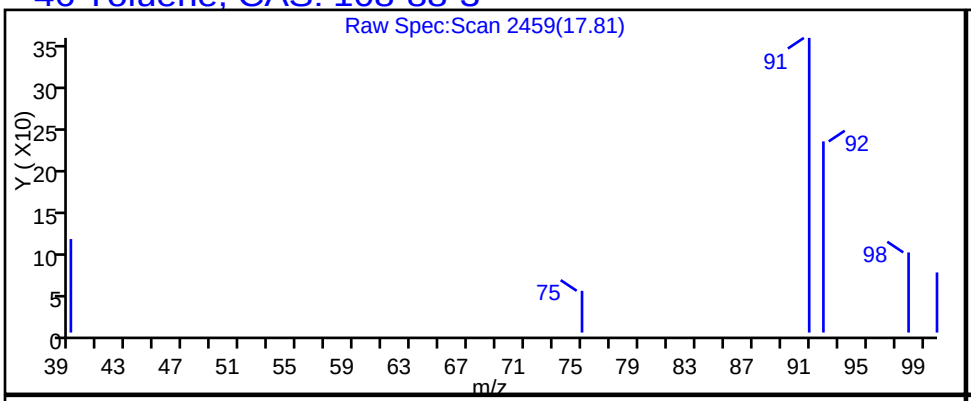
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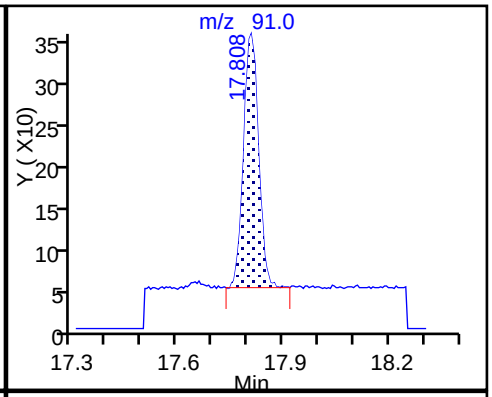
TestAmerica Sacramento

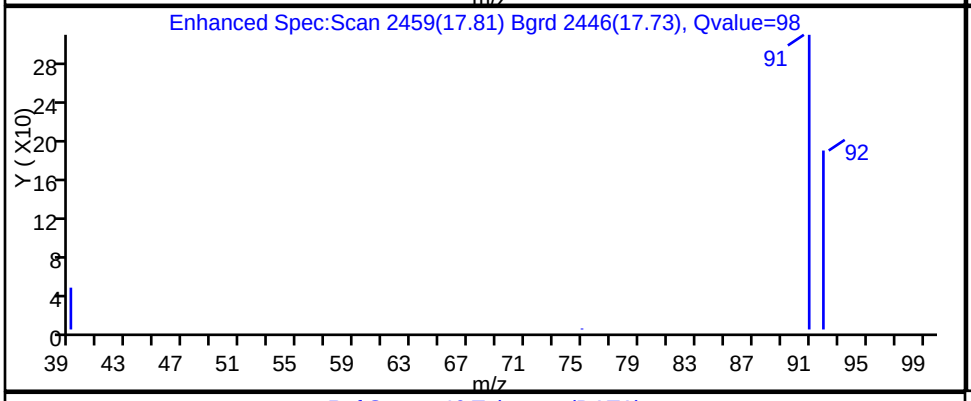
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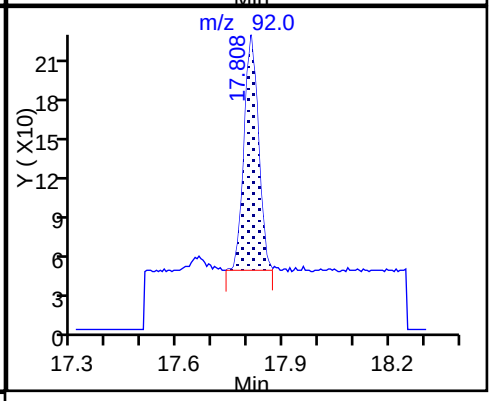
Injection Date:	18-Feb-2018 15:31:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-1	Lab Sample ID:	320-35833-1		
Client ID:	34000355				
Operator ID:	SRS	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

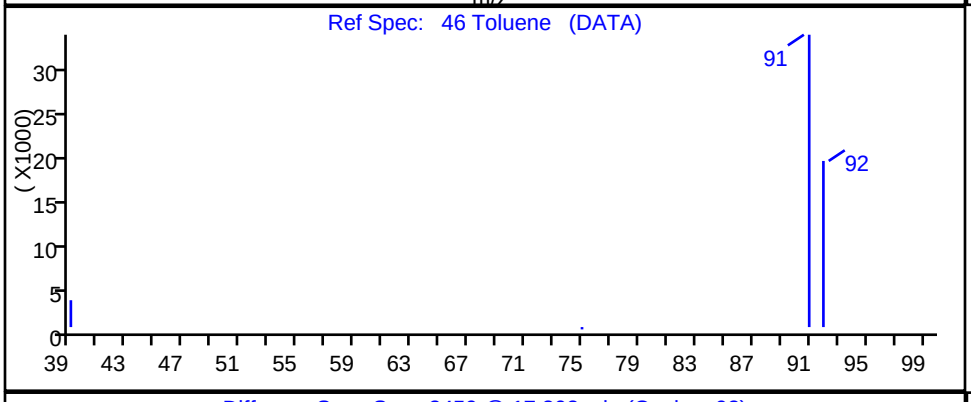
46 Toluene, CAS: 108-88-3

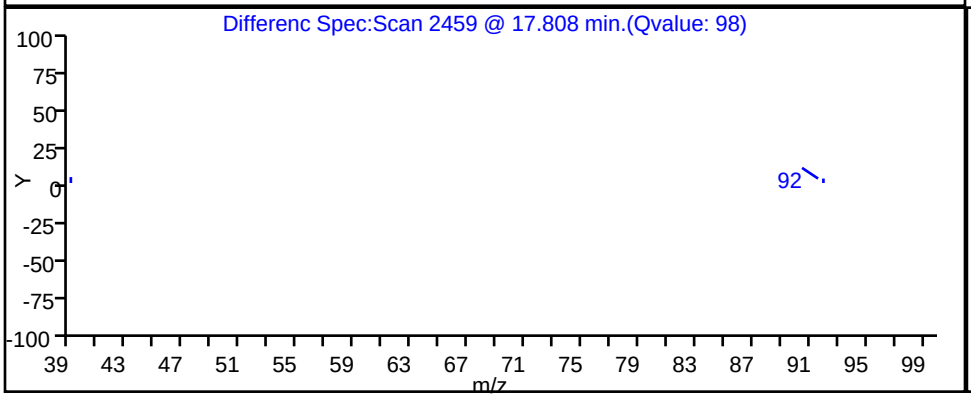


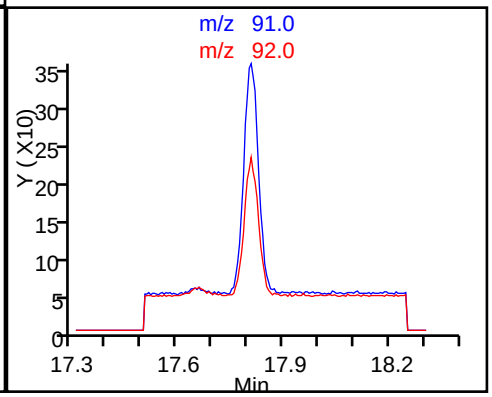












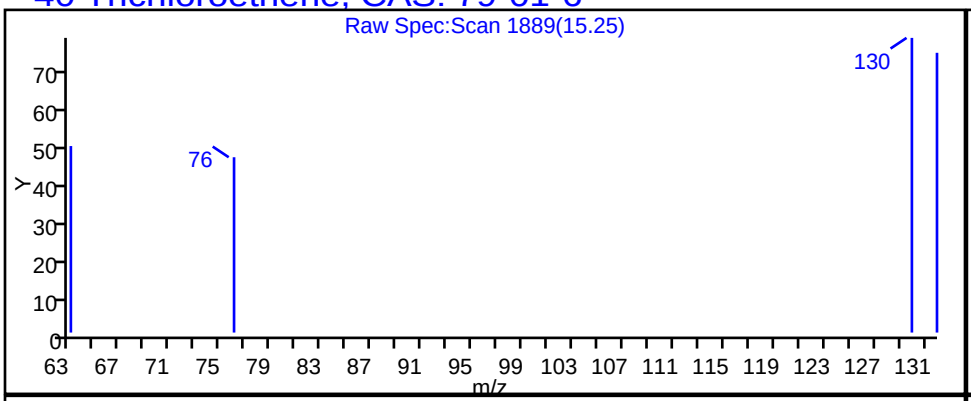
Report Date: 19-Feb-2018 14:13:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

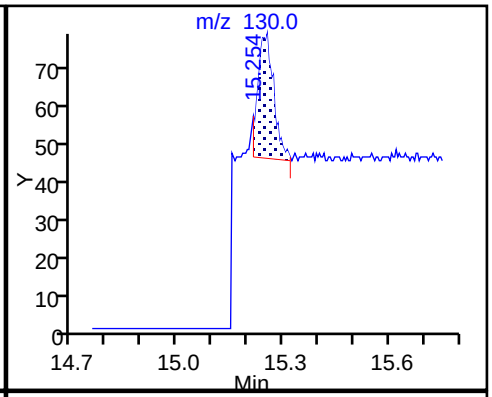
TestAmerica Sacramento

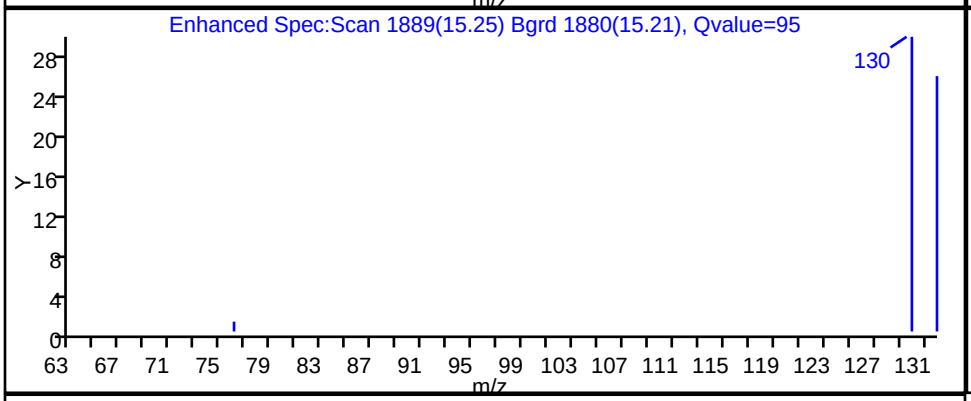
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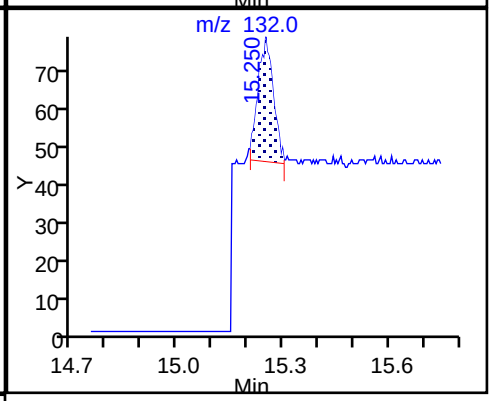
Injection Date:	18-Feb-2018 15:31:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-1	Lab Sample ID:	320-35833-1		
Client ID:	34000355				
Operator ID:	SRS	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

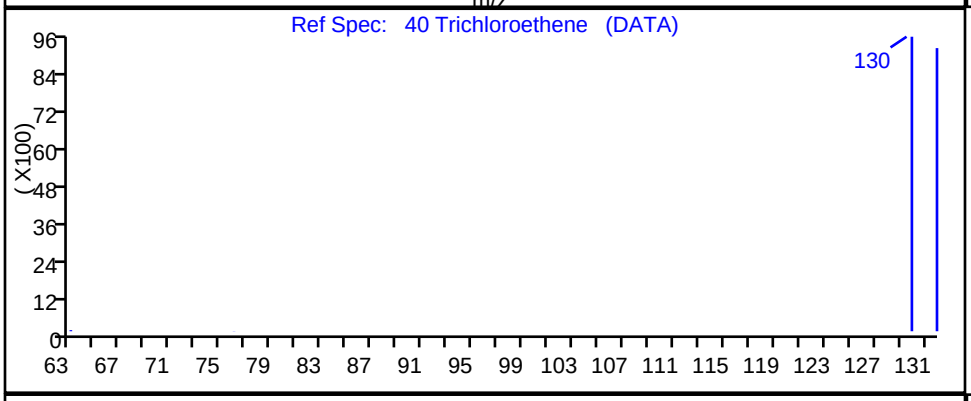
40 Trichloroethene, CAS: 79-01-6

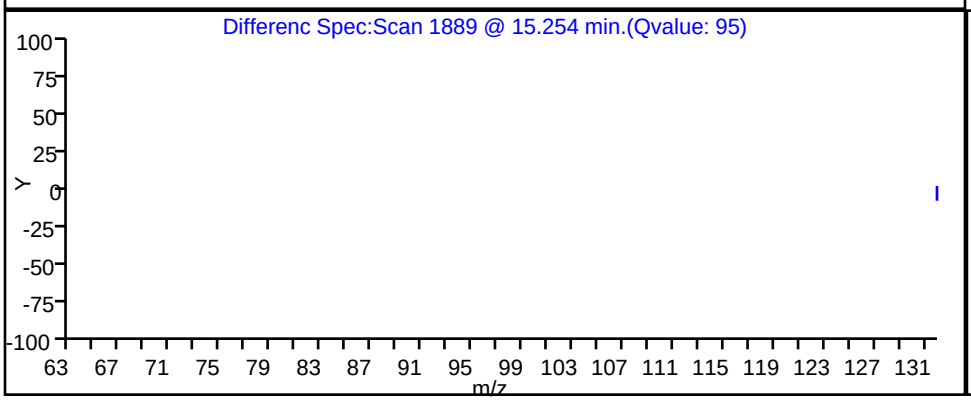


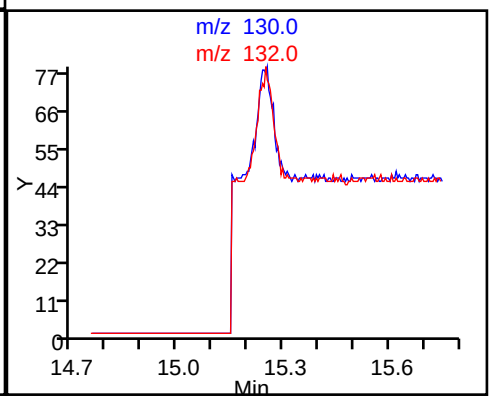












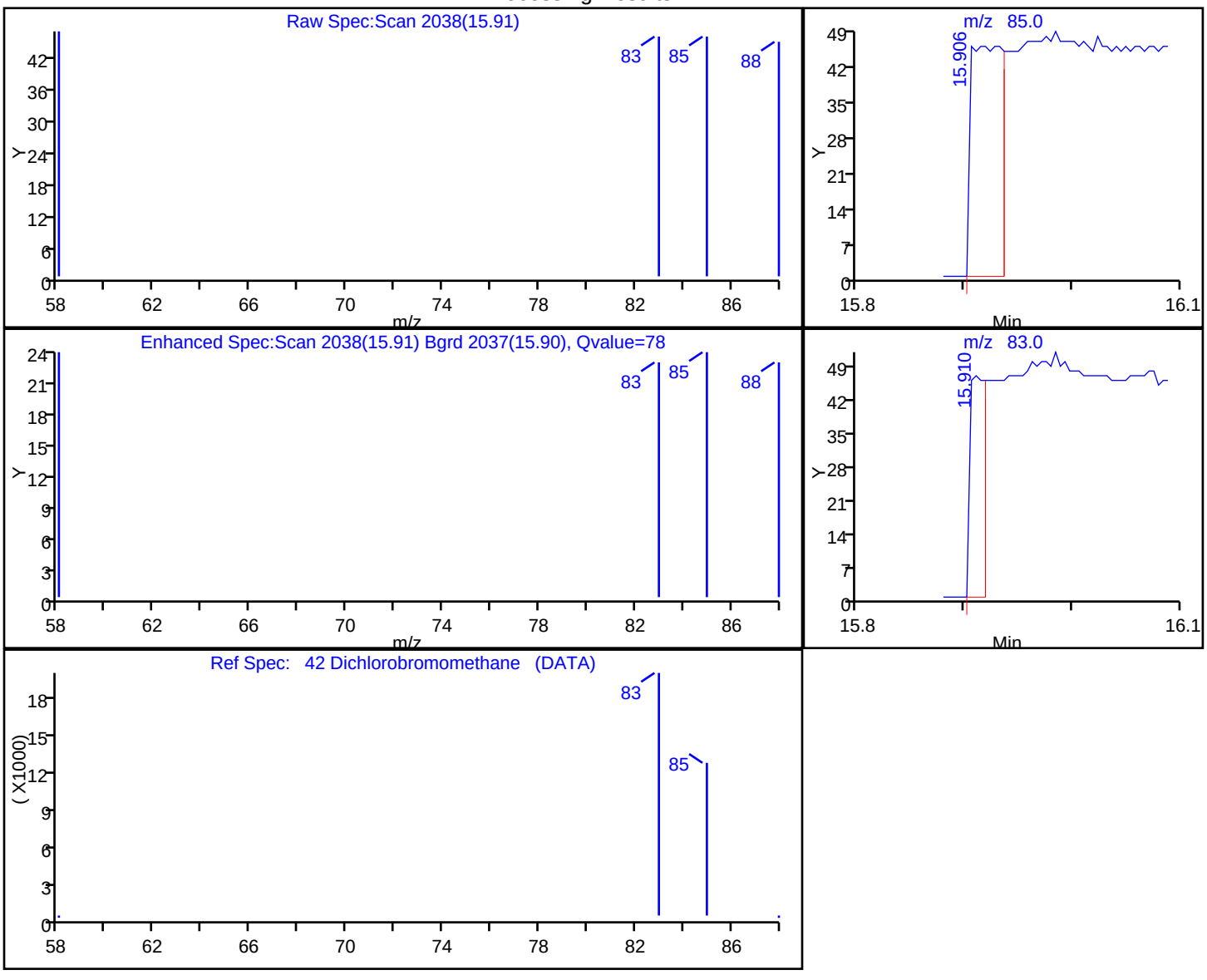
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021806.D				
Injection Date:	18-Feb-2018 15:31:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-1	Lab Sample ID:	320-35833-1		
Client ID:	34000355				
Operator ID:	SRS	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	96	0.004097
15.91	83.00	49	

Reviewer: jamese, 19-Feb-2018 12:30:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001439 | Lab Sample ID: 320-35833-2

Matrix: Air | Lab File ID: MS12021807.D

Analysis Method: TO-15 SIM | Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2018 16:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208998 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.011	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001439 Lab Sample ID: 320-35833-2

Matrix: Air Lab File ID: MS12021807.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 16:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	125		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021807.D
Lims ID: 320-35833-A-2
Client ID: 34001439
Sample Type: Client
Inject. Date: 18-Feb-2018 16:32:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-2
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:31:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	96	23512	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	112463	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	97	94972	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.567	13.568	-0.001	98	62631	2.51	
$ 5 Toluene-d8 (Surr)	100	17.659	17.660	-0.001	100	66718	2.00	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	99	69170	2.01	
8 Dichlorodifluoromethane	85	4.290	4.281	0.007	99	1044	0.0239	
10 Chloromethane	50	4.759	4.735	0.022	98	335	0.0206	7M
15 Trichlorofluoromethane	101	6.753	6.764	0.011	98	1569	0.0338	
18 Acetone	43	7.735	7.717	0.018	100	86323	3.23	
19 1,1,2-Trichloro-1,2,2-trif	101	7.797	7.785	0.009	16	941	0.0315	
24 Methyl tert-butyl ether	73	9.551	9.577	-0.031	95	467	0.0120	
38 Benzene	78	13.889	13.889	0.000	46	515	0.0114	
43 1,4-Dioxane	88	16.128	16.063	0.065	93	287	0.0306	
46 Toluene	91	17.808	17.808	0.000	98	1408	0.0256	
58 Styrene	104	21.463	21.452	0.006	82	248	0.006794	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

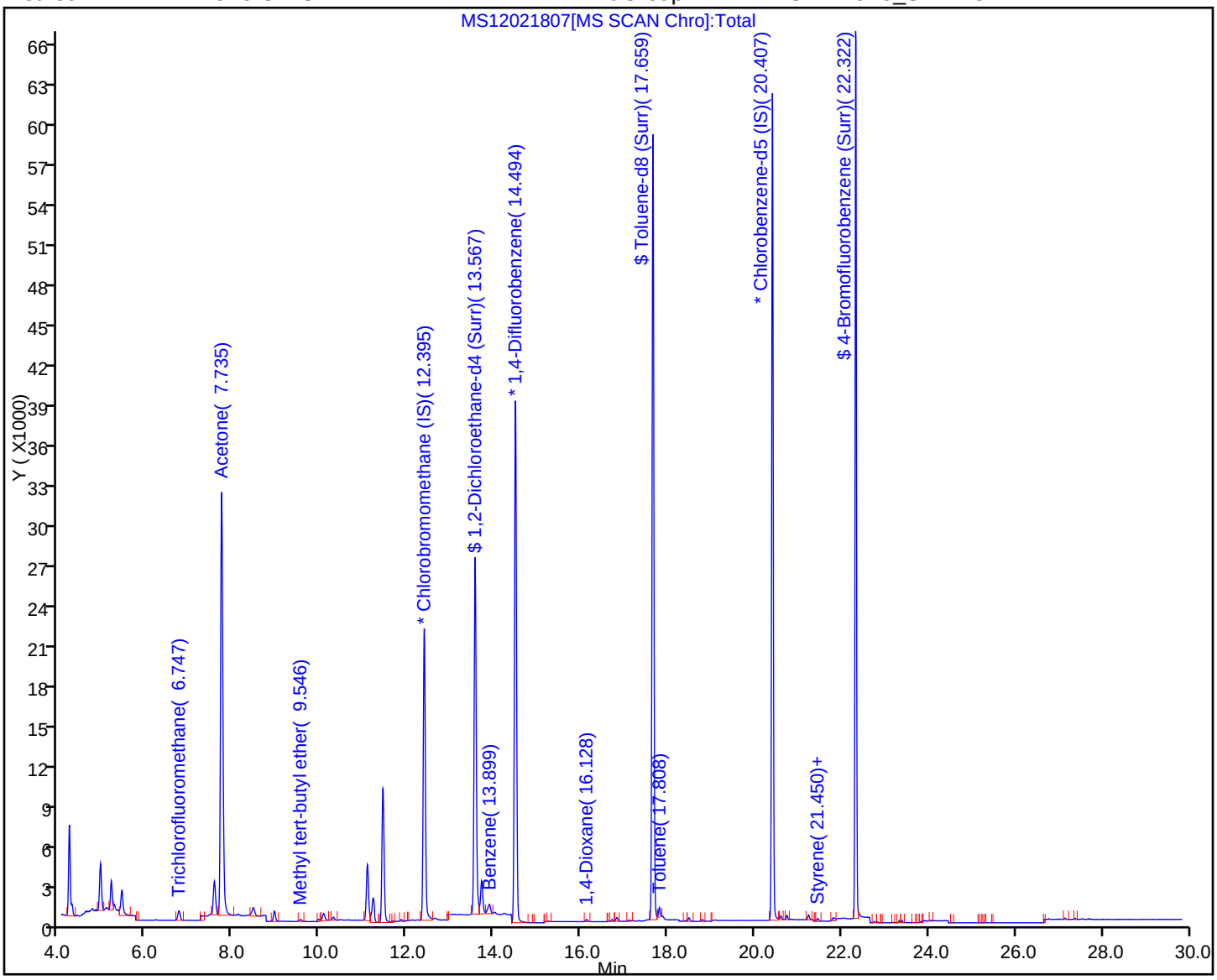
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021807.D

Injection Date:	18-Feb-2018 16:32:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-2	Lab Sample ID:	320-35833-2		
Client ID:	34001439				
Operator ID:	SRS	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



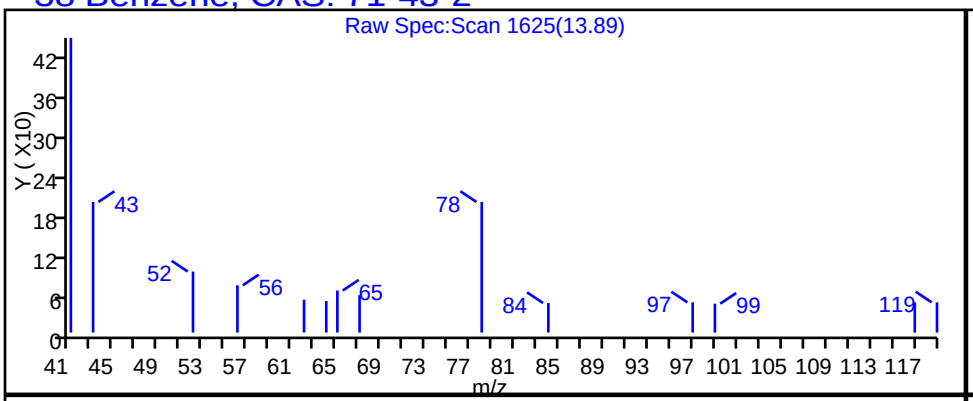
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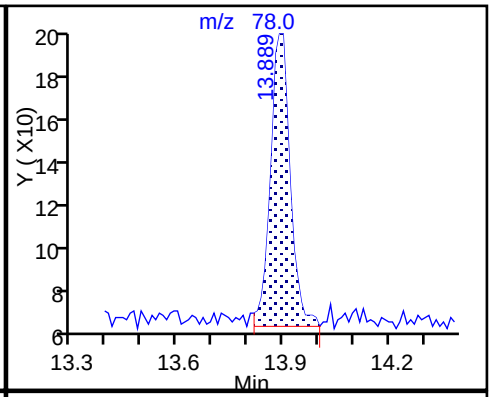
TestAmerica Sacramento

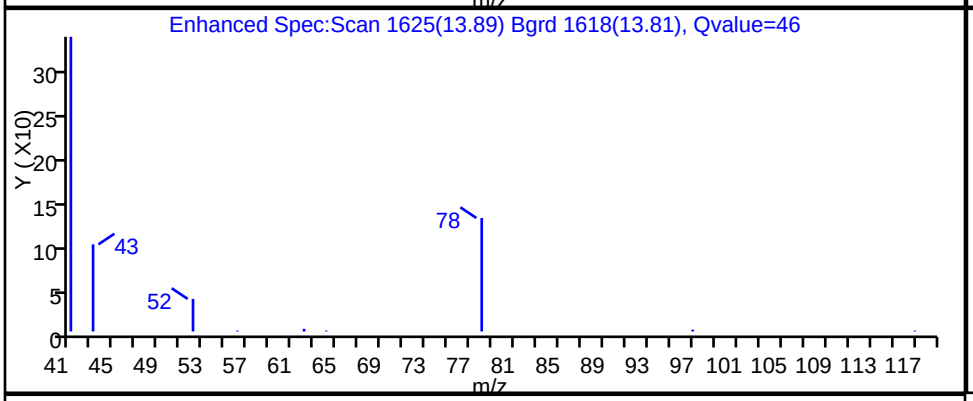
Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021807.D

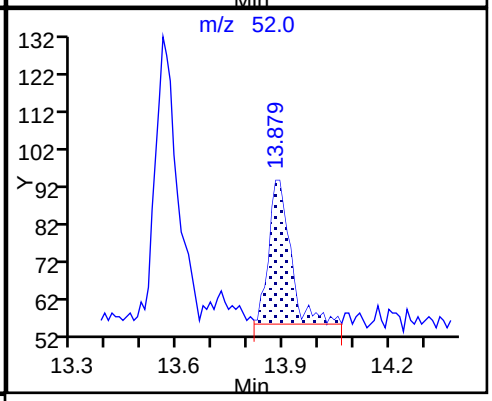
Injection Date:	18-Feb-2018 16:32:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-2	Lab Sample ID:	320-35833-2		
Client ID:	34001439				
Operator ID:	SRS	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

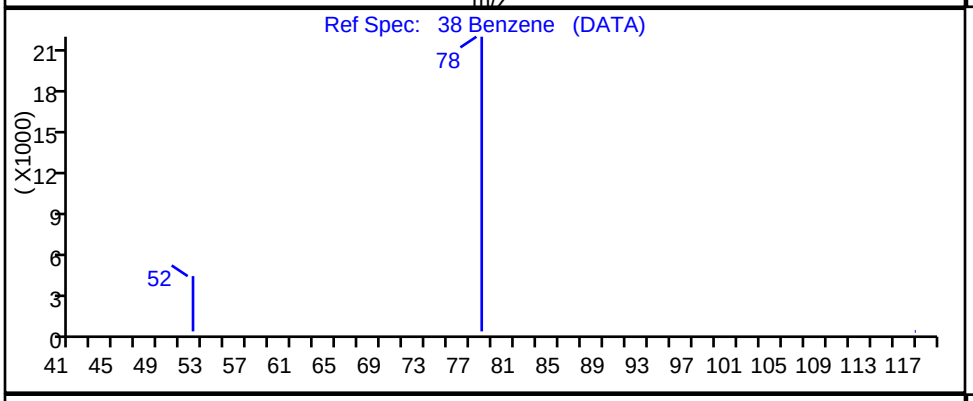
38 Benzene, CAS: 71-43-2

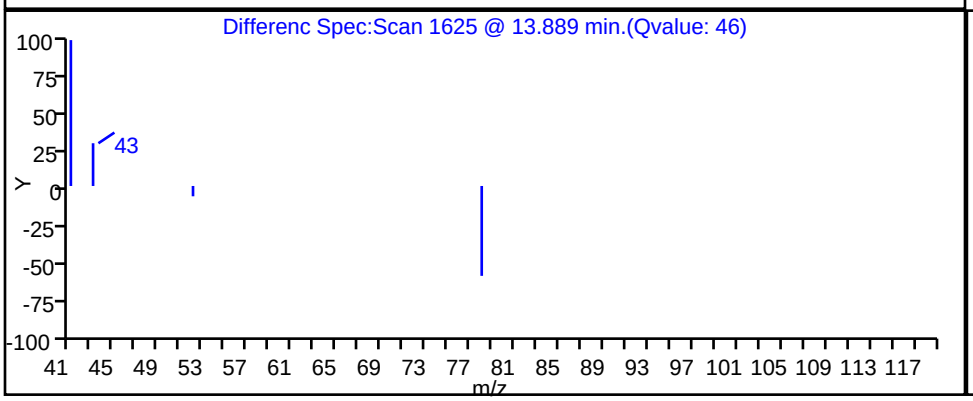


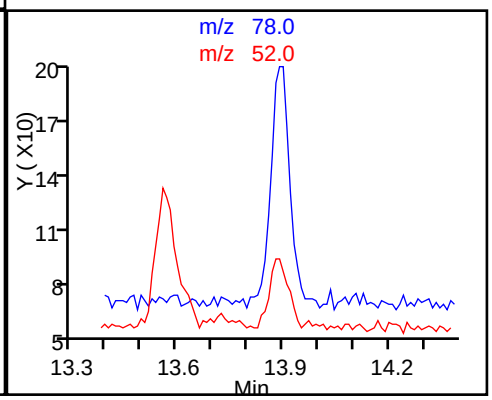












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001477 Lab Sample ID: 320-35833-3

Matrix: Air Lab File ID: MS12021808.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 17:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.010	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001477 Lab Sample ID: 320-35833-3

Matrix: Air Lab File ID: MS12021808.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 17:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021808.D
Lims ID: 320-35833-A-3
Client ID: 34001477
Sample Type: Client
Inject. Date: 18-Feb-2018 17:33:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-3
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:31:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.395	12.401	-0.006	95	23337	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	112133	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.410	0.000	99	95063	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	99	61357	2.46	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	67088	2.02	
$ 6 4-Bromofluorobenzene (Surr	174	22.325	22.325	0.000	100	70180	2.04	
8 Dichlorodifluoromethane	85	4.290	4.281	0.007	100	447	0.0103	
10 Chloromethane	50	4.752	4.735	0.015	96	448	0.0277	7M
18 Acetone	43	7.726	7.717	0.009	100	68785	2.59	
38 Benzene	78	13.889	13.889	0.000	17	453	0.0100	
46 Toluene	91	17.803	17.808	-0.005	99	1174	0.0214	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

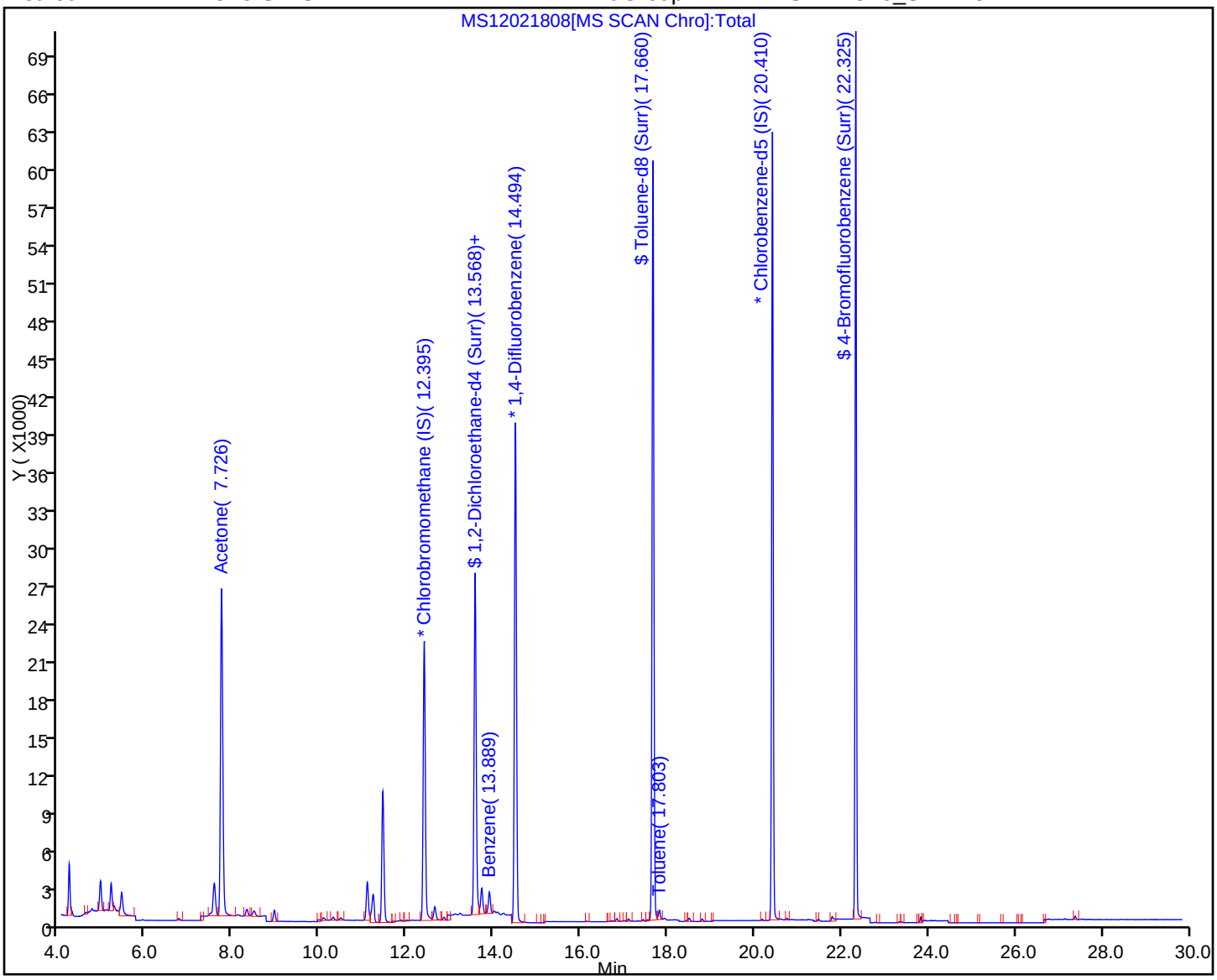
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:57 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021808.D

Injection Date:	18-Feb-2018 17:33:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-3	Lab Sample ID:	320-35833-3		
Client ID:	34001477				
Operator ID:	SRS	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



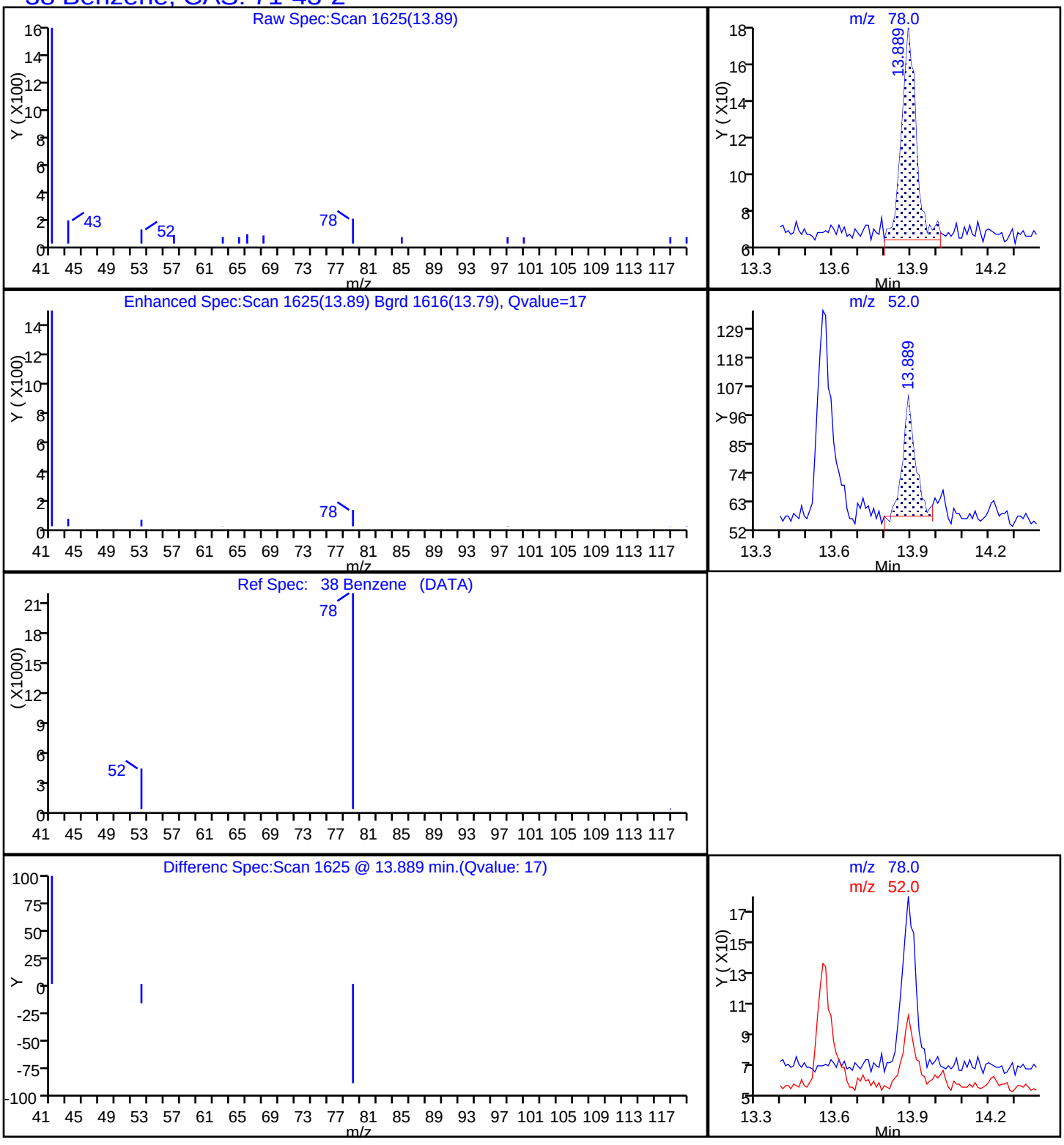
Report Date: 19-Feb-2018 14:13:57 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021808.D

Injection Date:	18-Feb-2018 17:33:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-3	Lab Sample ID:	320-35833-3		
Client ID:	34001477				
Operator ID:	SRS	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



Report Date: 19-Feb-2018 14:13:57 Chrom Revision: 2.2 08-Feb-2018 13:38:42

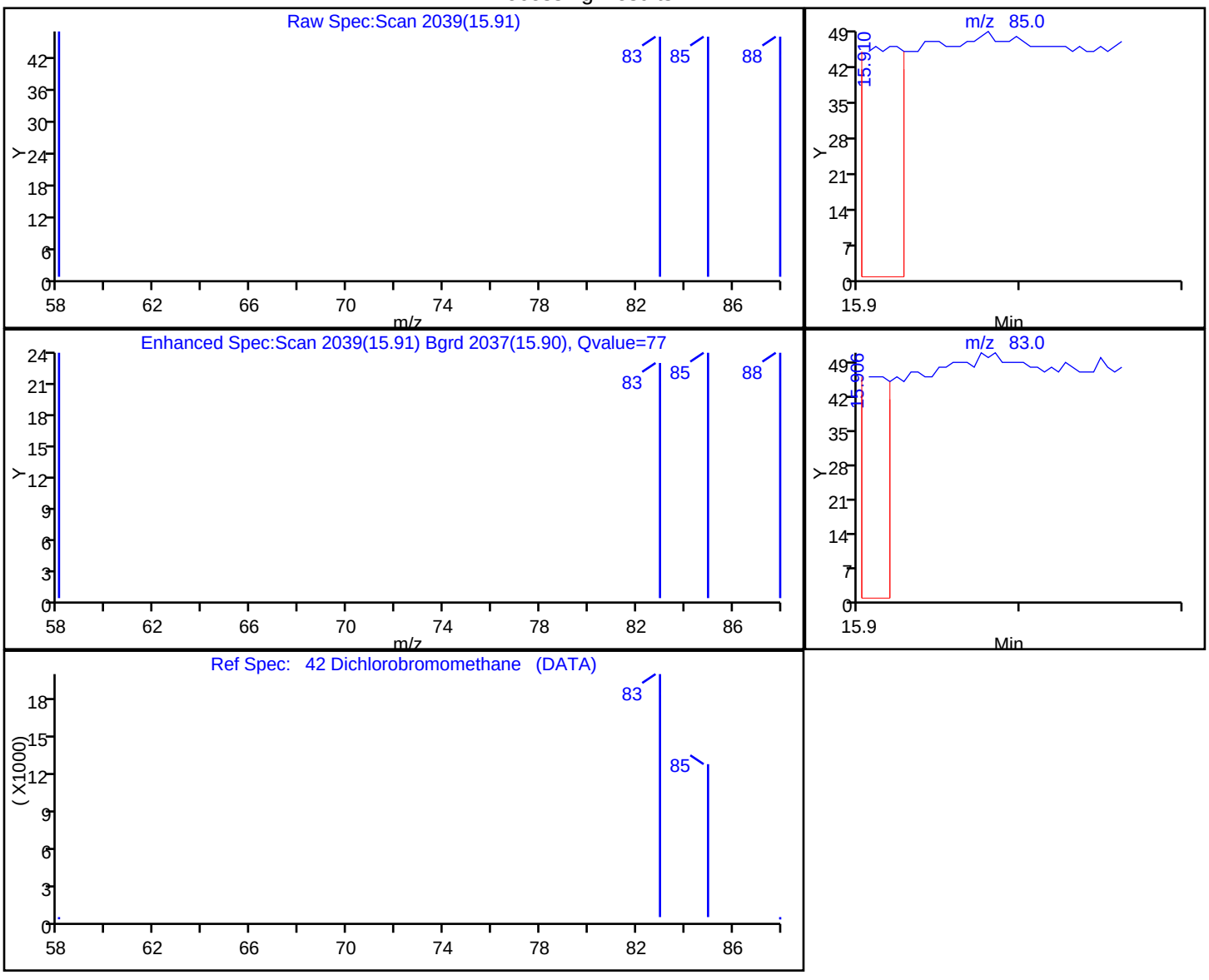
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021808.D				
Injection Date:	18-Feb-2018 17:33:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-3	Lab Sample ID:	320-35833-3		
Client ID:	34001477				
Operator ID:	SRS	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	72	0.003051
15.91	83.00	48	

Reviewer: jamese, 19-Feb-2018 12:31:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000084 | Lab Sample ID: 320-35833-5

Matrix: Air | Lab File ID: MS12021811.D

Analysis Method: TO-15 SIM | Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2018 20:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208998 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.016	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	0.011	J	0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	0.0060	J	0.020	0.0050
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000084 Lab Sample ID: 320-35833-5

Matrix: Air Lab File ID: MS12021811.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D
Lims ID: 320-35833-A-5
Client ID: 34000084
Sample Type: Client
Inject. Date: 18-Feb-2018 20:27:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-5
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:35:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	25611	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	121533	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	103436	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	99	65277	2.42	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	71219	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	98	75398	2.01	
8 Dichlorodifluoromethane	85	4.298	4.281	0.015	80	772	0.0162	
10 Chloromethane	50	4.767	4.735	0.030	91	353	0.0199	7M
15 Trichlorofluoromethane	101	6.759	6.764	0.017	100	1138	0.0225	
18 Acetone	43	7.762	7.717	0.045	99	11052	0.3798	
19 1,1,2-Trichloro-1,2,2-trif	101	7.798	7.785	0.010	33	1417	0.0435	
22 Methylene Chloride	49	8.948	8.948	0.009	95	1740	0.0795	7M
38 Benzene	78	13.900	13.889	0.011	100	783	0.0160	
40 Trichloroethene	130	15.246	15.250	-0.004	94	119	0.006043	M
46 Toluene	91	17.803	17.808	-0.005	96	677	0.0114	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

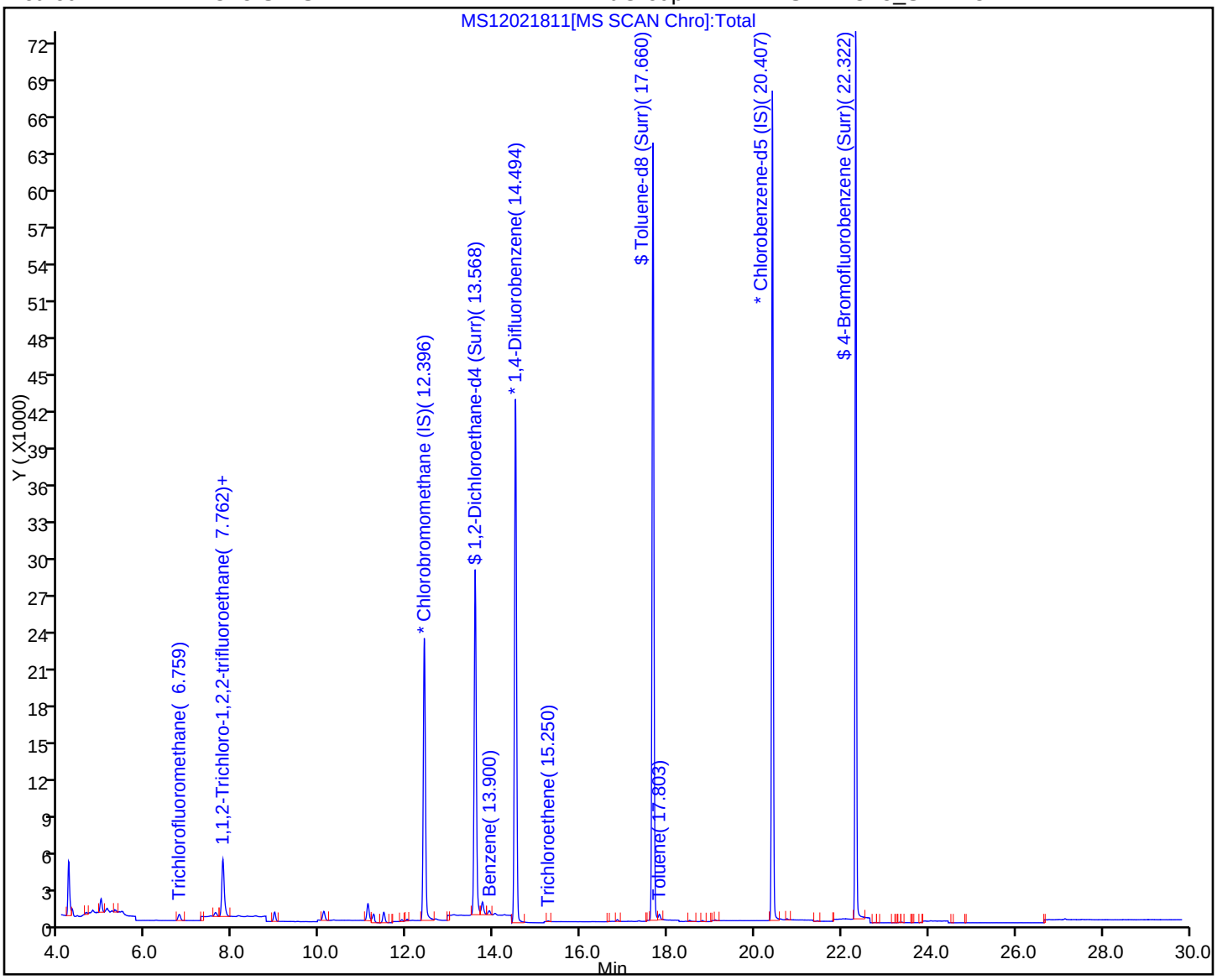
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D

Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5		
Client ID:	34000084				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



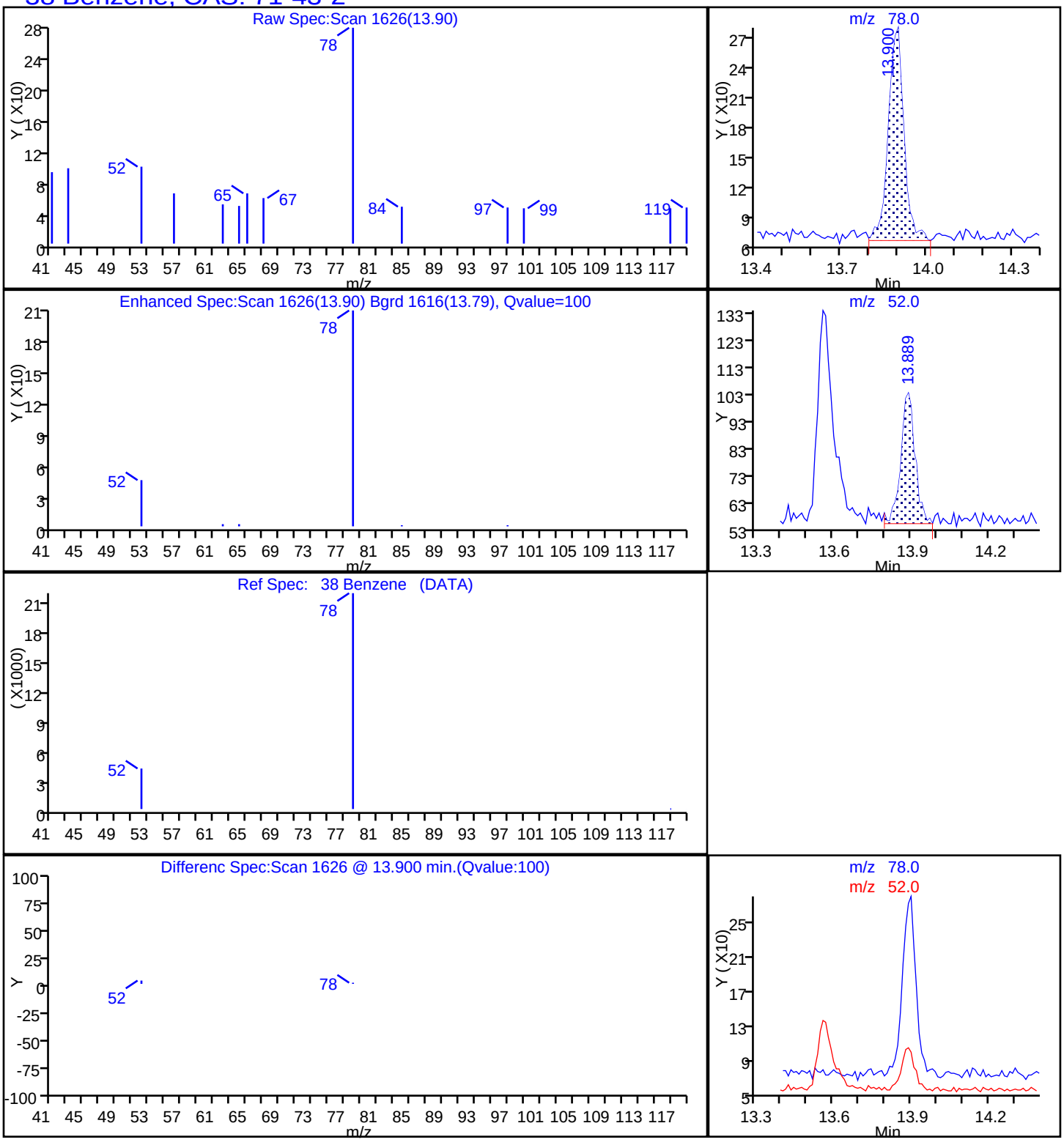
Report Date: 19-Feb-2018 14:13:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D

Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5
Client ID:	34000084		
Operator ID:	SRS	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

38 Benzene, CAS: 71-43-2



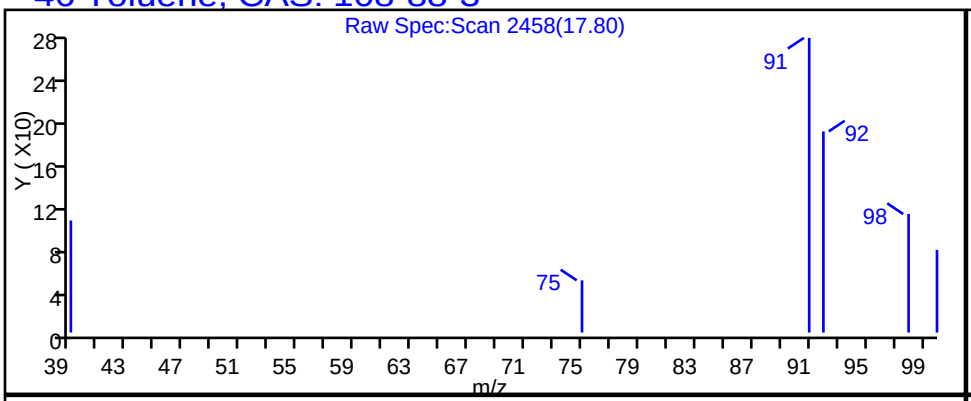
Report Date: 19-Feb-2018 14:13:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

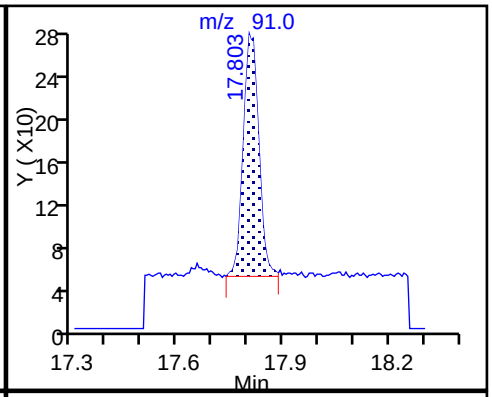
TestAmerica Sacramento

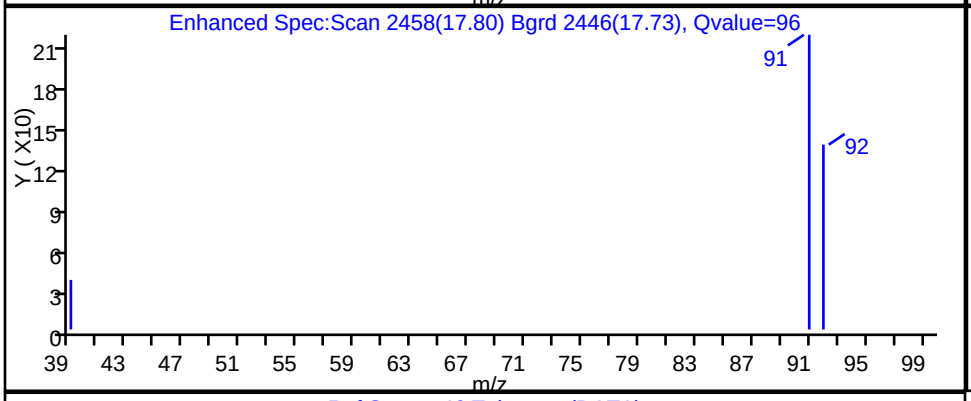
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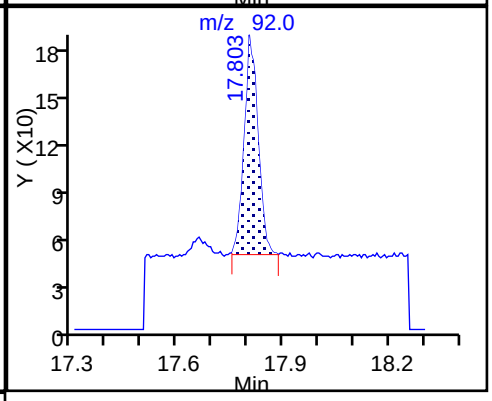
Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5		
Client ID:	34000084				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

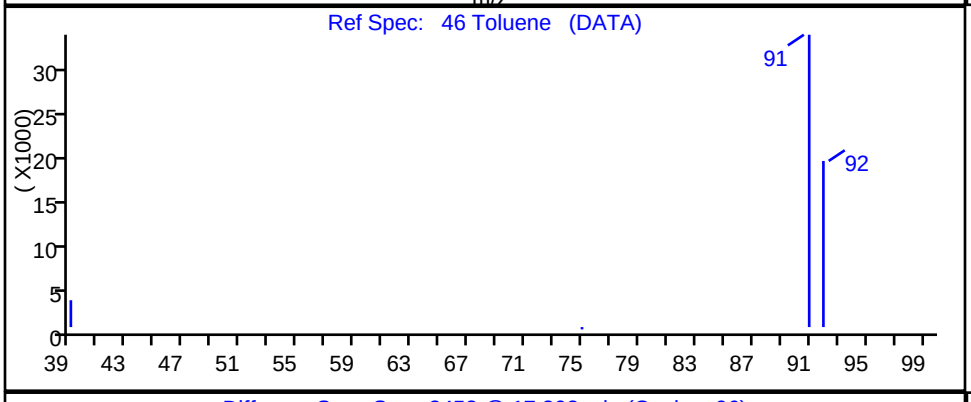
46 Toluene, CAS: 108-88-3

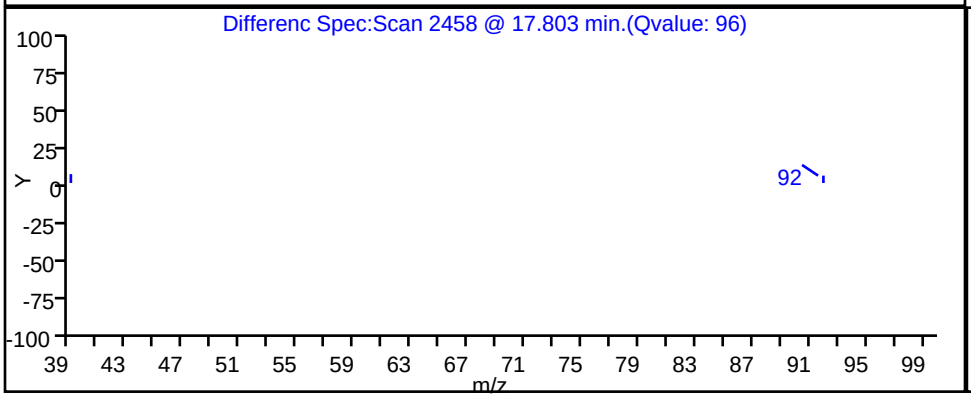


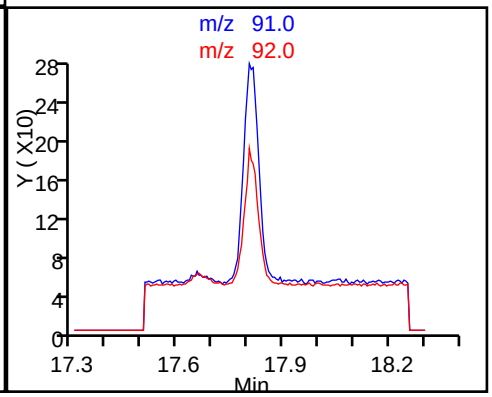












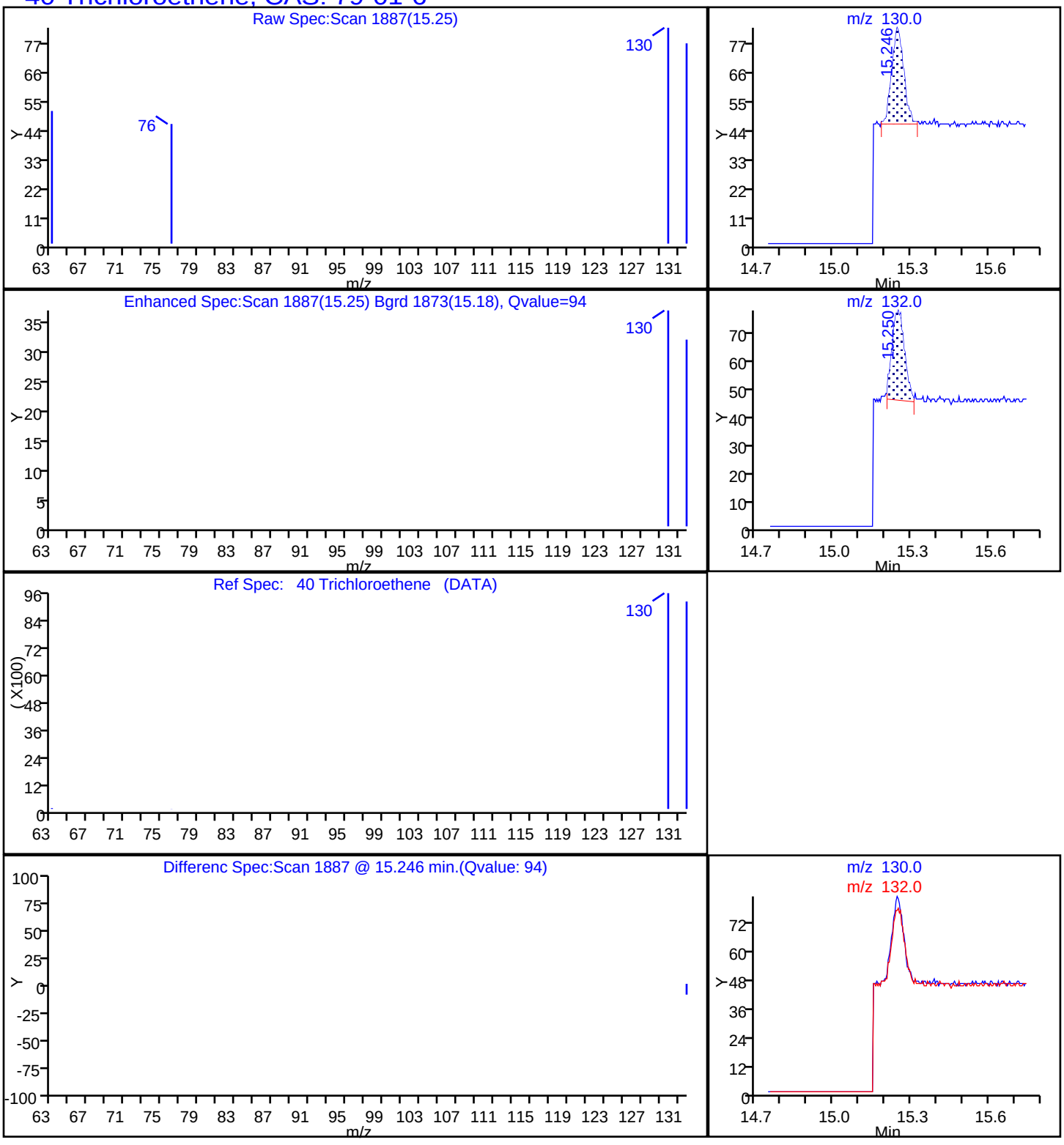
Report Date: 19-Feb-2018 14:13:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D

Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5
Client ID:	34000084		
Operator ID:	SRS	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL
Column:		Detector	MS SCAN

40 Trichloroethene, CAS: 79-01-6



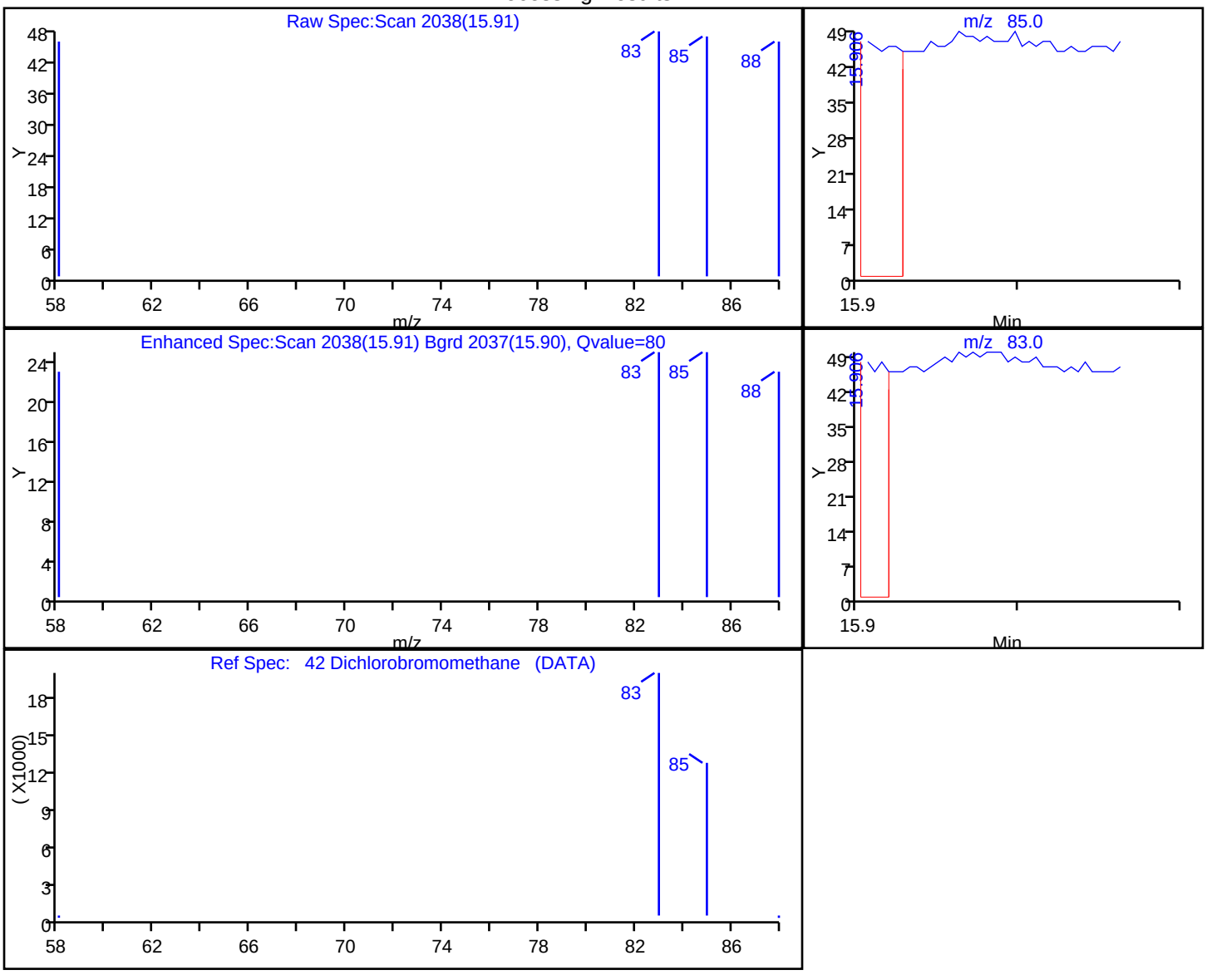
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D				
Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5		
Client ID:	34000084				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	72	0.002815
15.91	83.00	49	

Reviewer: jamese, 19-Feb-2018 12:35:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

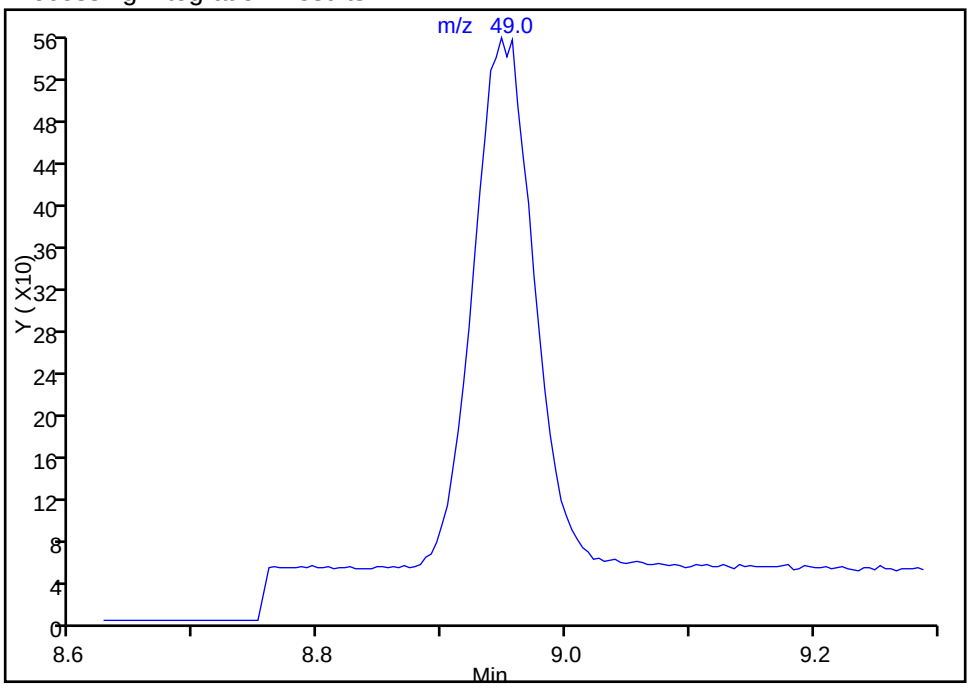
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D				
Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5		
Client ID:	34000084				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

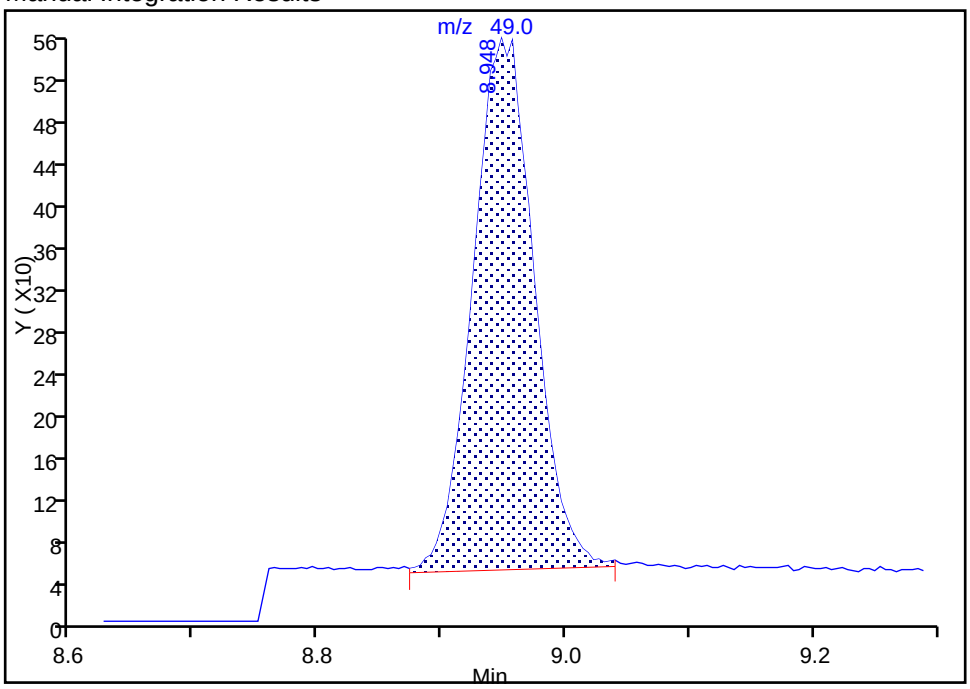
Not Detected
Expected RT: 8.94

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 1740
Amount: 0.079473
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:34:30
Audit Action: Manually Integrated Audit Reason: Baseline

Report Date: 19-Feb-2018 14:13:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

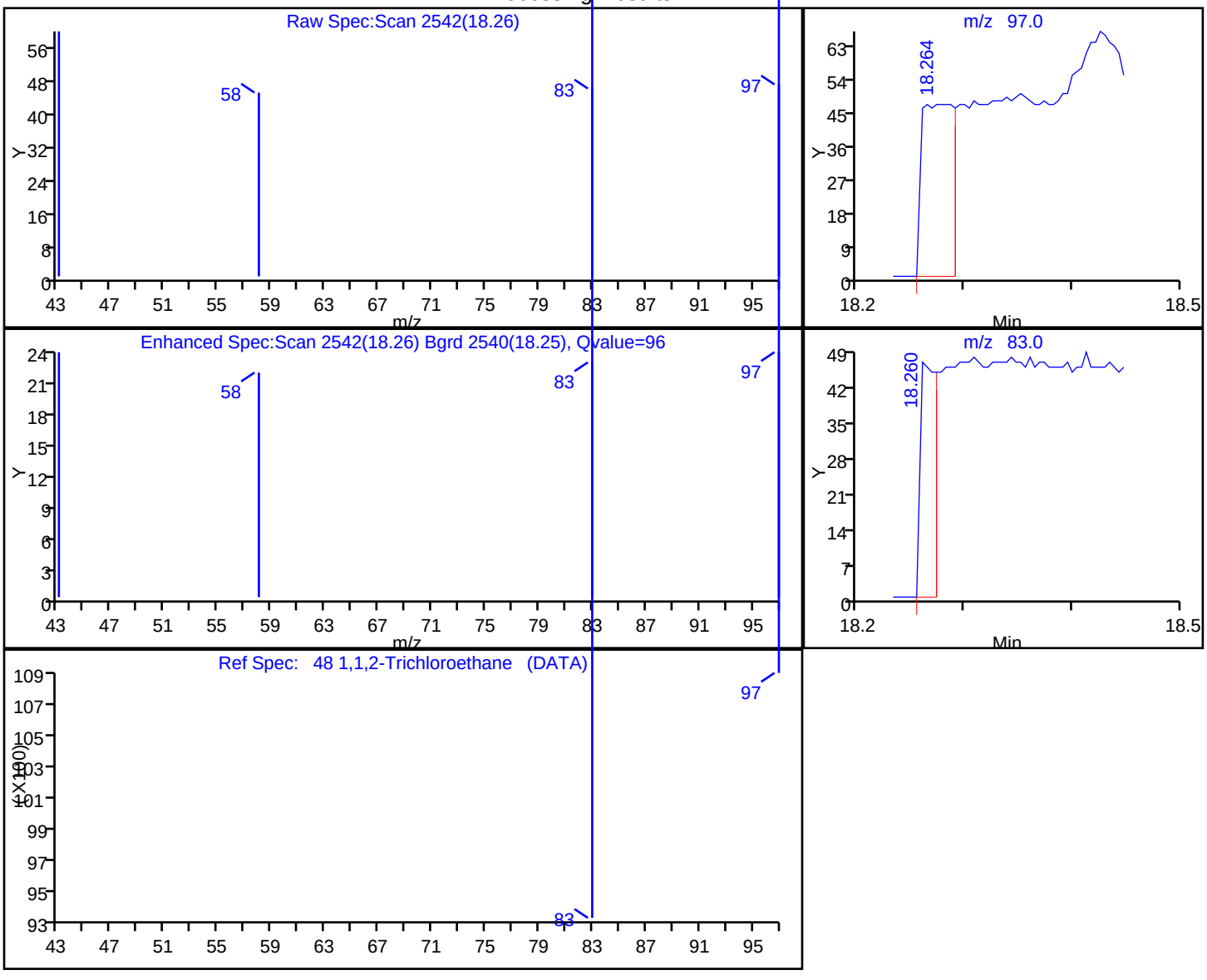
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D				
Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5		
Client ID:	34000084				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

48 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
18.26	97.00	101	0.005252
18.26	83.00	51	

Reviewer: jamese, 19-Feb-2018 12:35:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

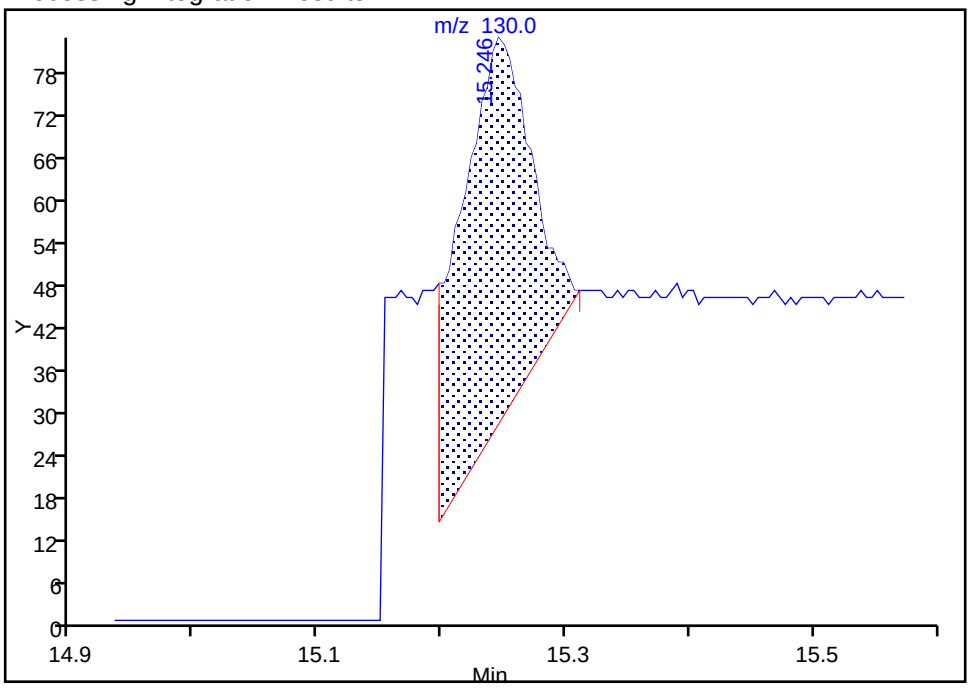
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021811.D				
Injection Date:	18-Feb-2018 20:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-5	Lab Sample ID:	320-35833-5		
Client ID:	34000084				
Operator ID:	SRS	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

40 Trichloroethene, CAS: 79-01-6

Signal: 1

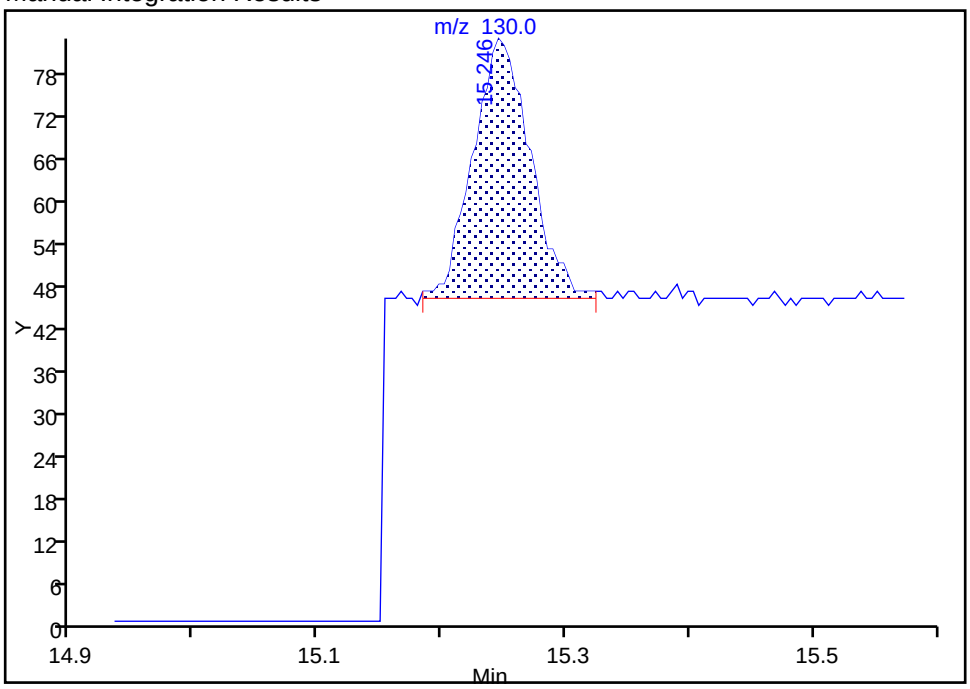
Processing Integration Results

RT: 15.25
Area: 227
Amount: 0.011527
Amount Units: ppb v/v



Manual Integration Results

RT: 15.25
Area: 119
Amount: 0.006043
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:35:22

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001132 | Lab Sample ID: 320-35833-7

Matrix: Air | Lab File ID: MS12021813.D

Analysis Method: TO-15 SIM | Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2018 22:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208998 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.018	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	0.0069	J	0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001132 Lab Sample ID: 320-35833-7

Matrix: Air Lab File ID: MS12021813.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 22:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D
Lims ID: 320-35833-A-7
Client ID: 34001132
Sample Type: Client
Inject. Date: 18-Feb-2018 22:29:30 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-7
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:40:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.396	12.401	-0.005	96	26608	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	126864	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.410	0.000	99	107111	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	99	66261	2.35	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	75074	2.00	
$ 6 4-Bromofluorobenzene (Surr	174	22.325	22.325	0.000	100	77156	1.99	
8 Dichlorodifluoromethane	85	4.298	4.281	0.015	100	563	0.0114	
10 Chloromethane	50	4.759	4.735	0.022	98	739	0.0401	M
15 Trichlorofluoromethane	101	6.747	6.764	0.005	97	378	0.007195	7M
18 Acetone	43	7.744	7.717	0.027	98	54618	1.81	
22 Methylene Chloride	49	8.948	8.948	0.009	97	1734	0.0762	7M
38 Benzene	78	13.889	13.889	0.000	99	909	0.0178	
40 Trichloroethene	130	15.250	15.250	0.000	99	142	0.006908	
46 Toluene	91	17.808	17.808	0.000	99	1774	0.0286	
56 m-Xylene & p-Xylene	91	20.740	20.746	0.000	99	498	0.008189	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

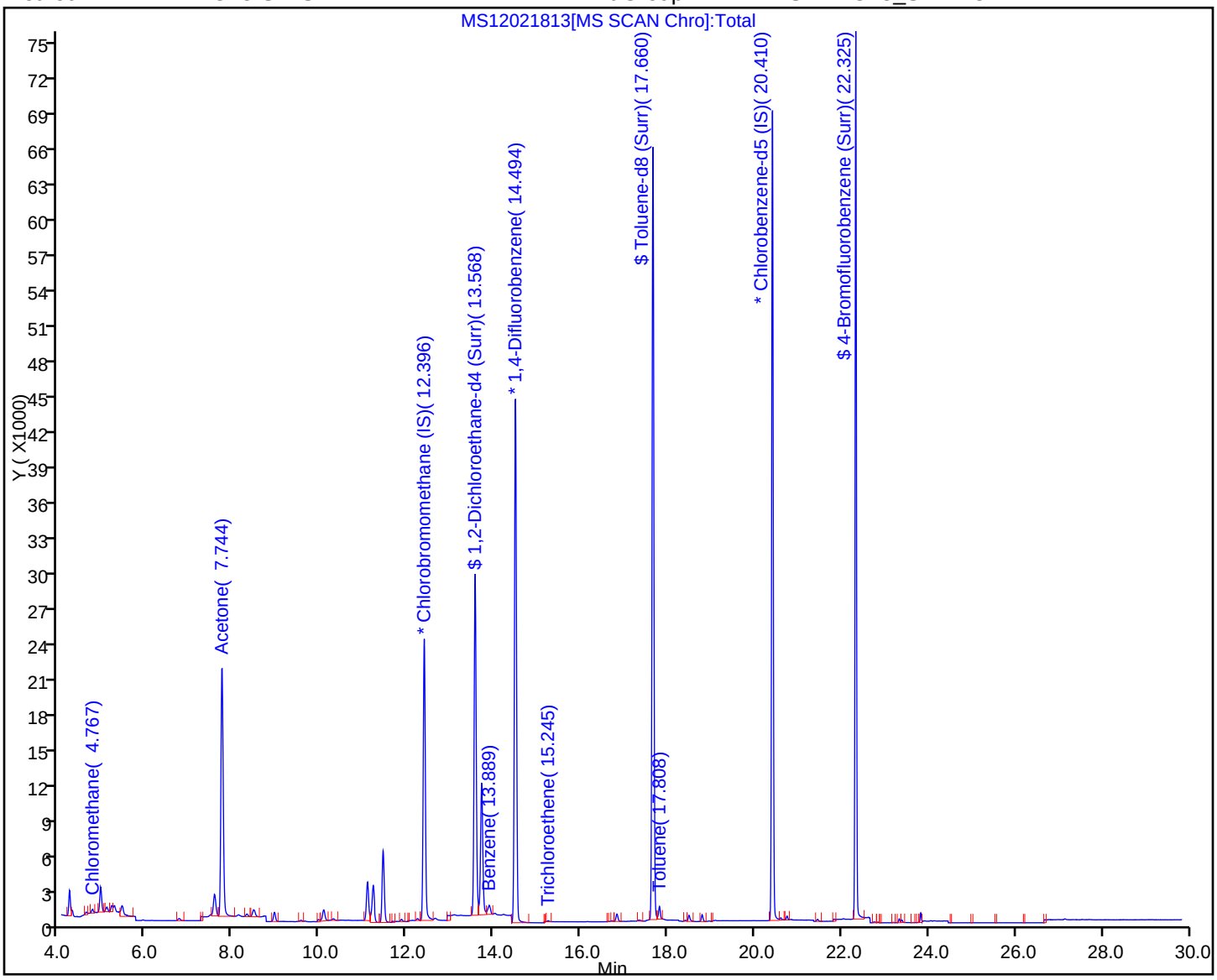
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D

Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



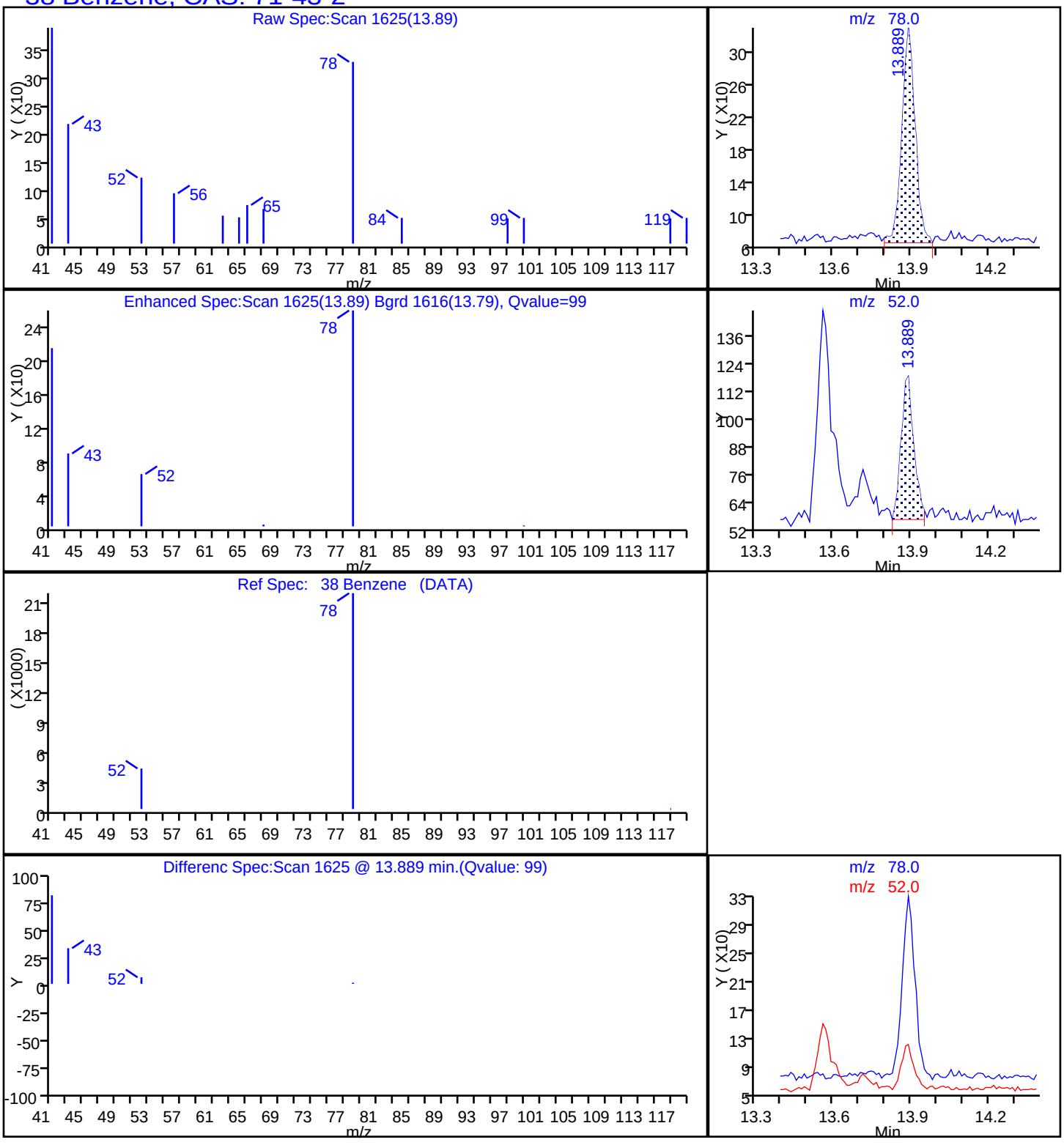
Report Date: 19-Feb-2018 14:13:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D

Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



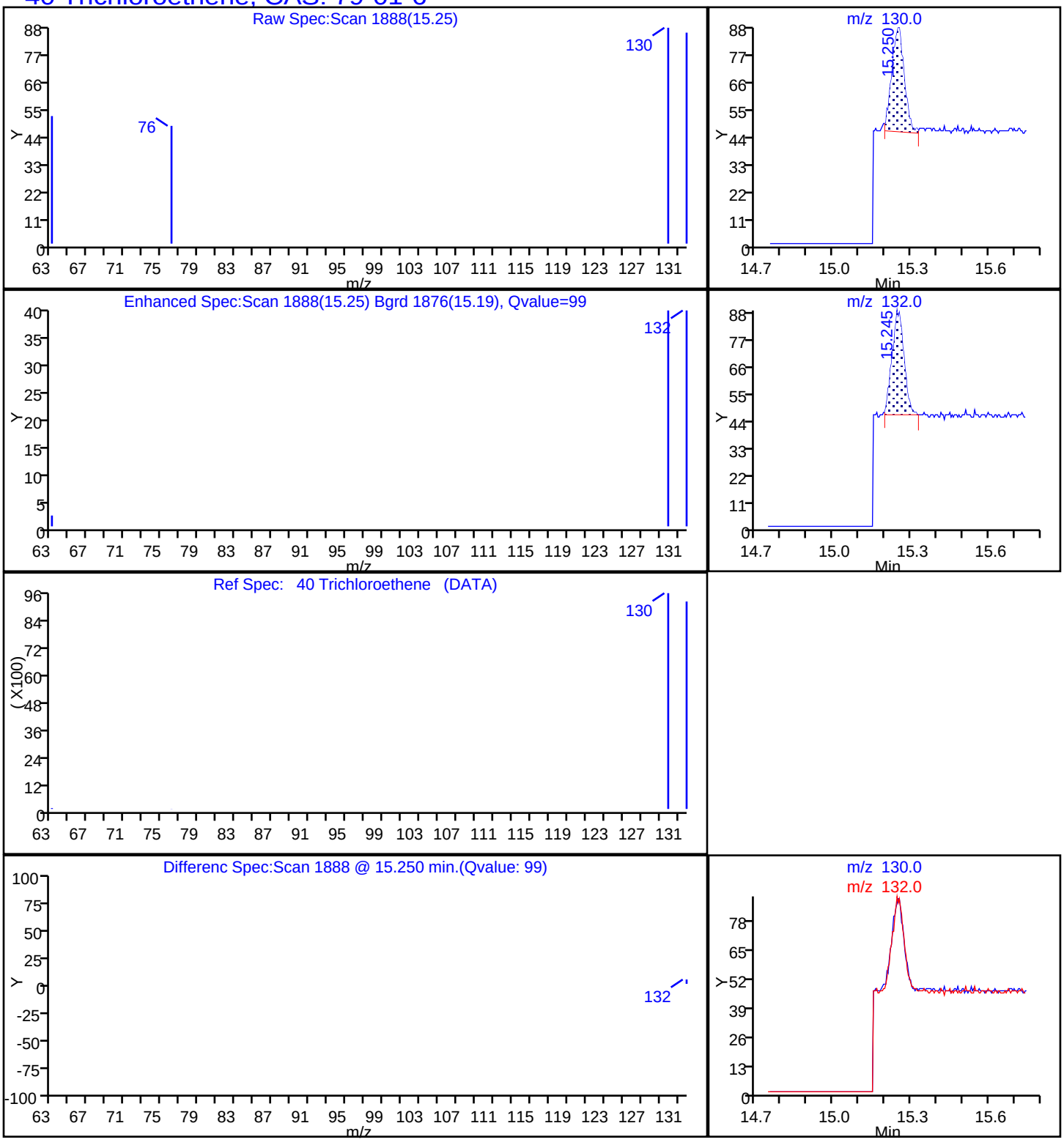
Report Date: 19-Feb-2018 14:13:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D

Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

40 Trichloroethene, CAS: 79-01-6



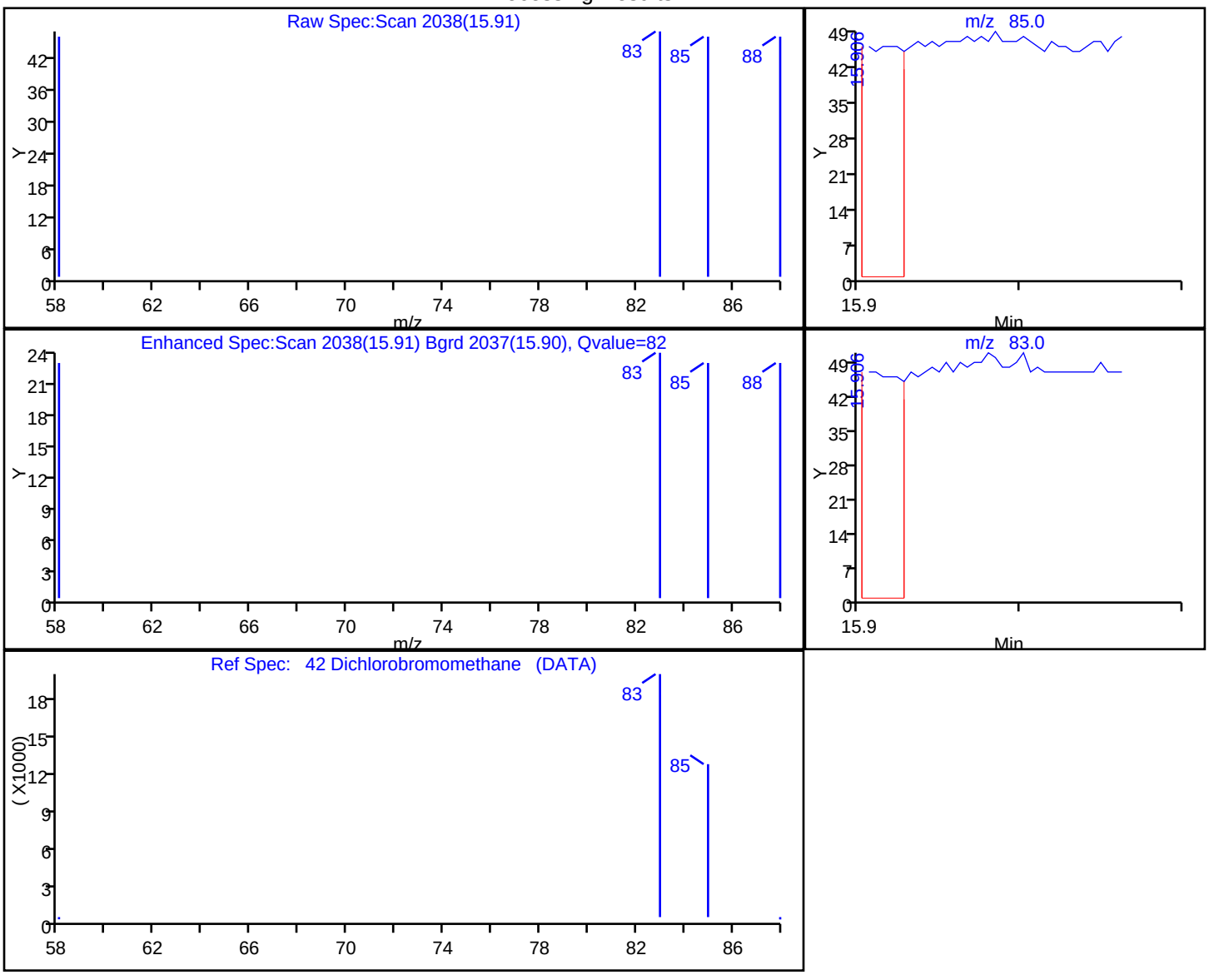
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D				
Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	72	0.002696
15.91	83.00	73	

Reviewer: jamese, 19-Feb-2018 12:40:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

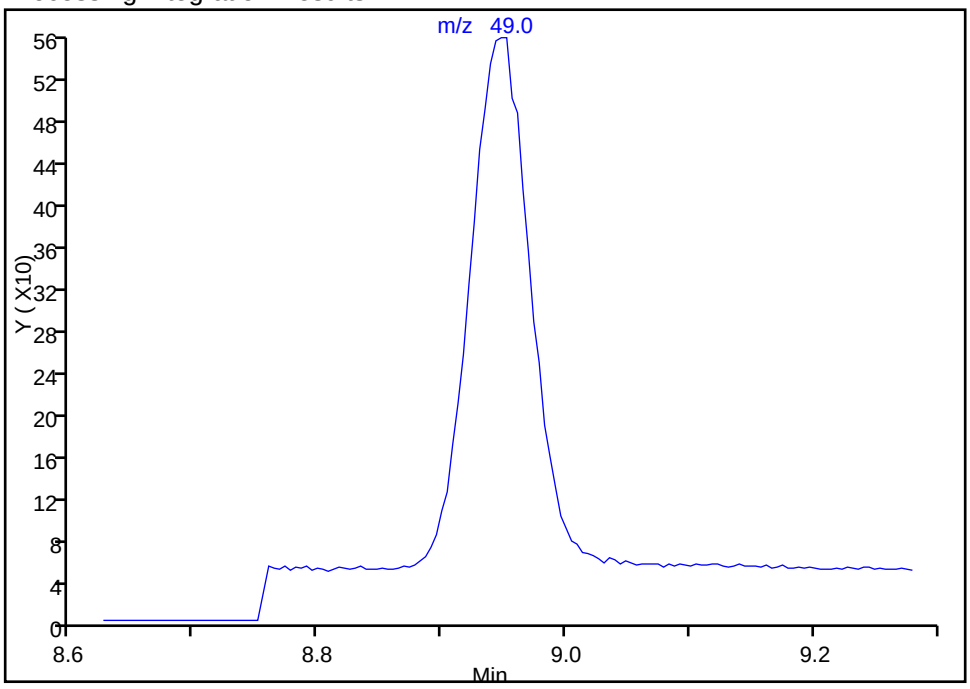
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D				
Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

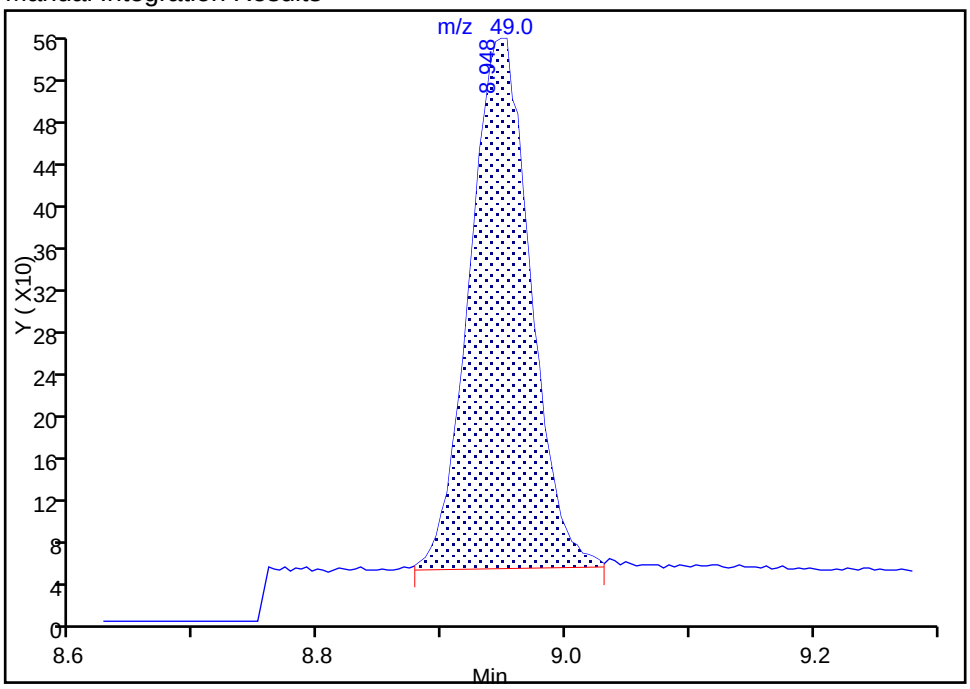
Not Detected
Expected RT: 8.94

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 1734
Amount: 0.076232
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:39:33
Audit Action: Manually Integrated Audit Reason: Baseline

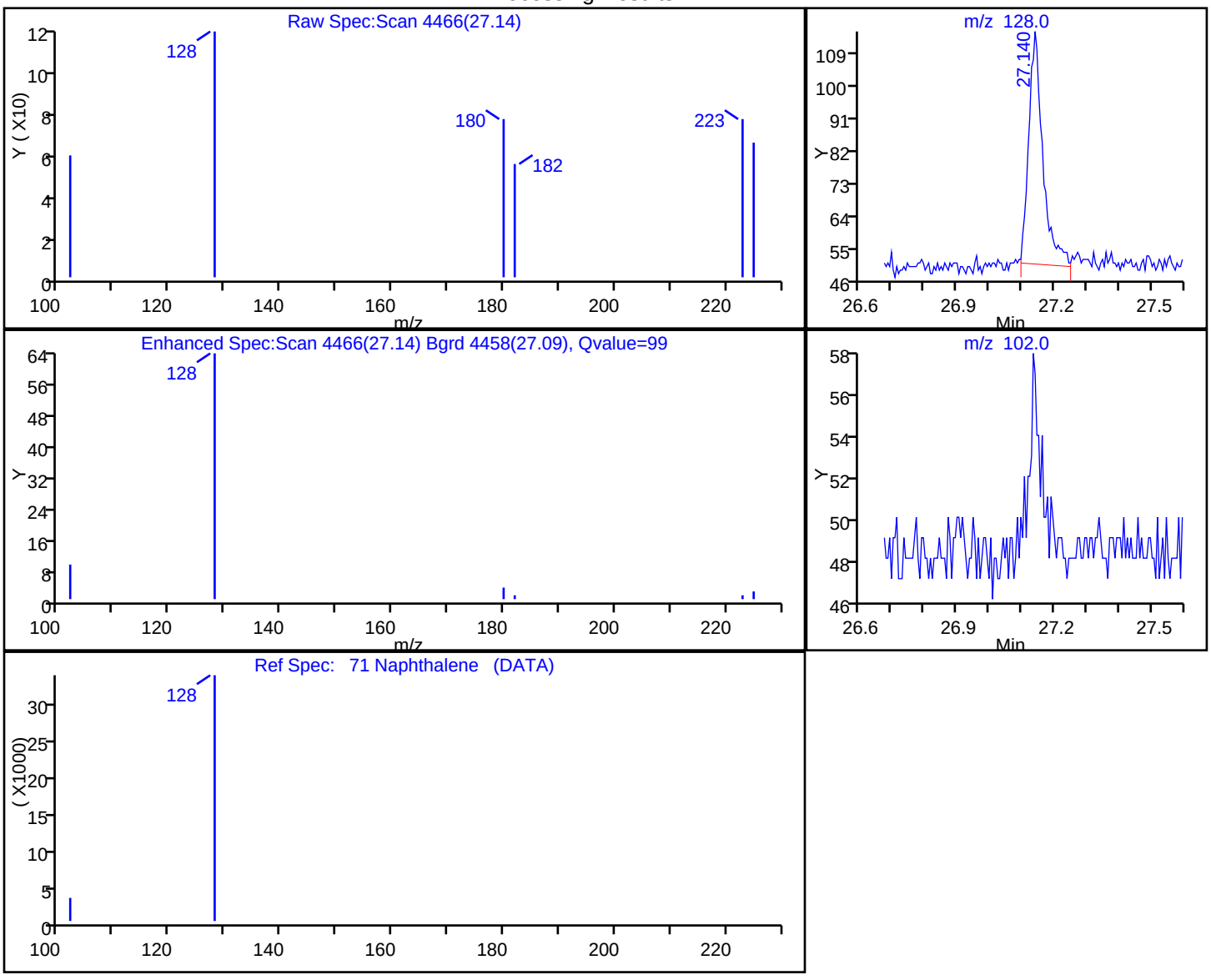
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D				
Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

71 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
27.14	128.00	198	0.003859
27.13	102.00	0	

Reviewer: jamese, 19-Feb-2018 12:40:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

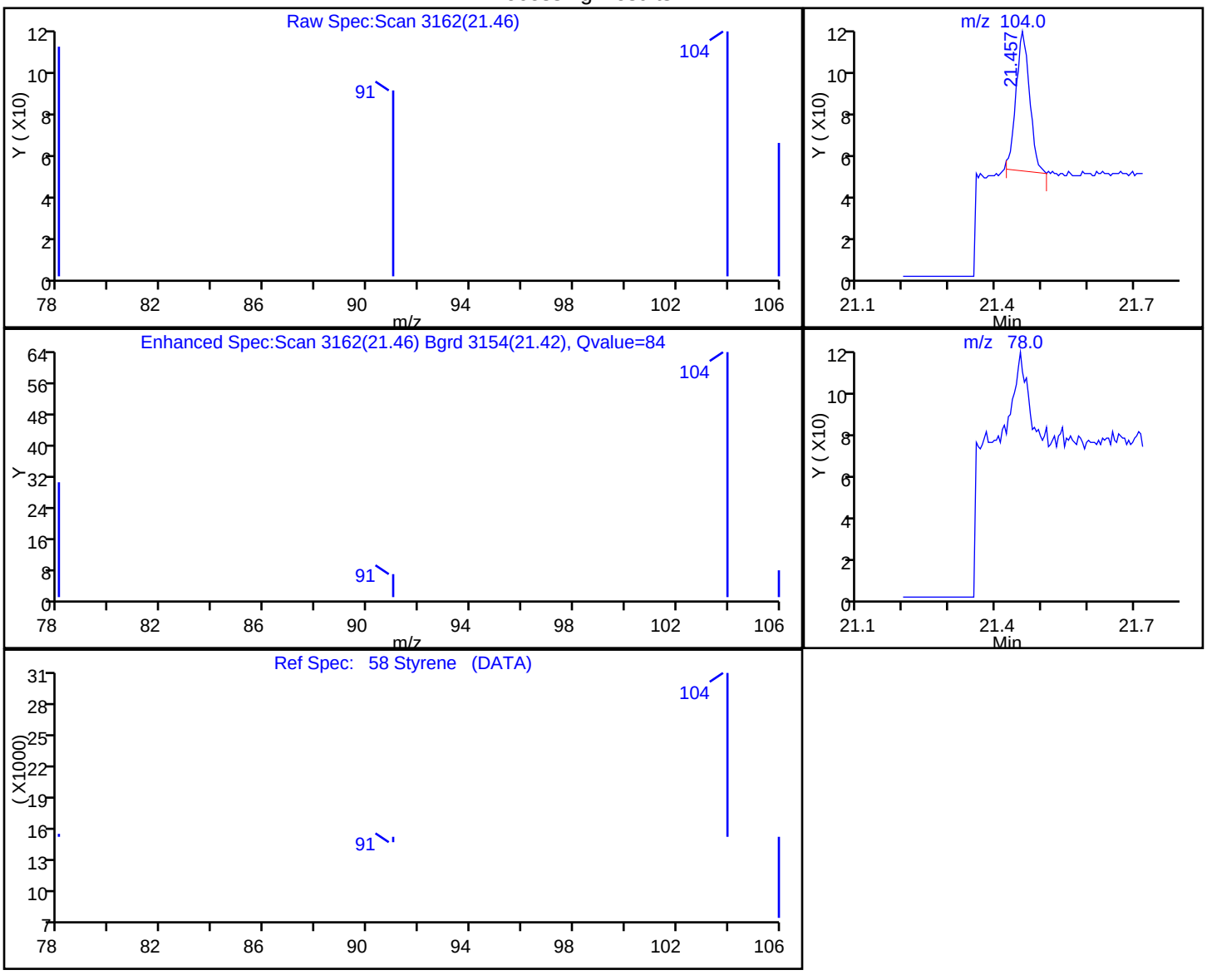
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D				
Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

58 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
21.46	104.00	131	0.003182
21.46	78.00	0	

Reviewer: jamese, 19-Feb-2018 12:40:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

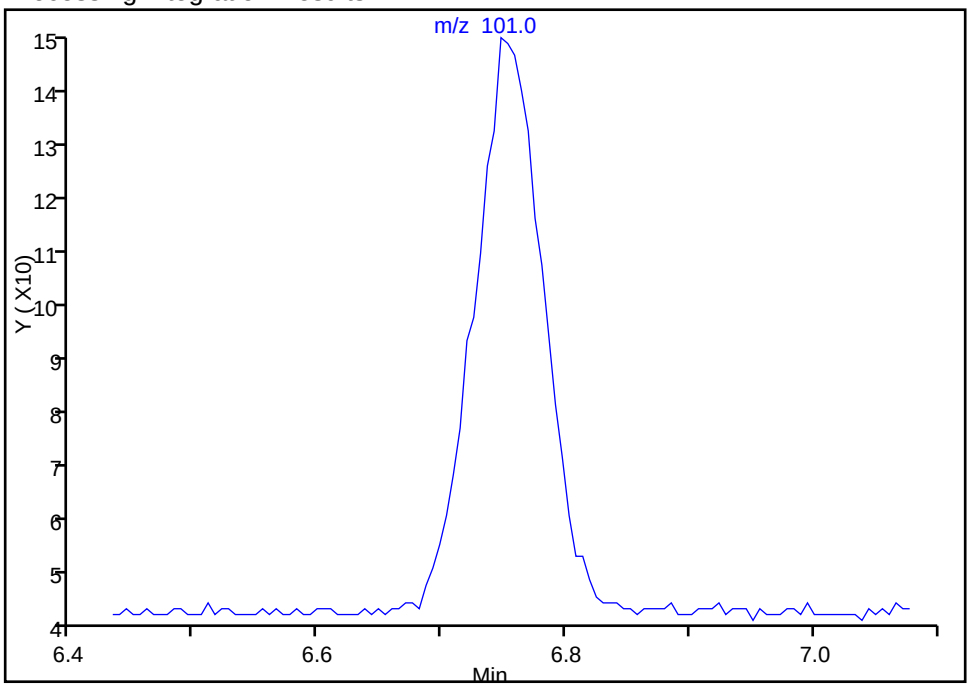
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D				
Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

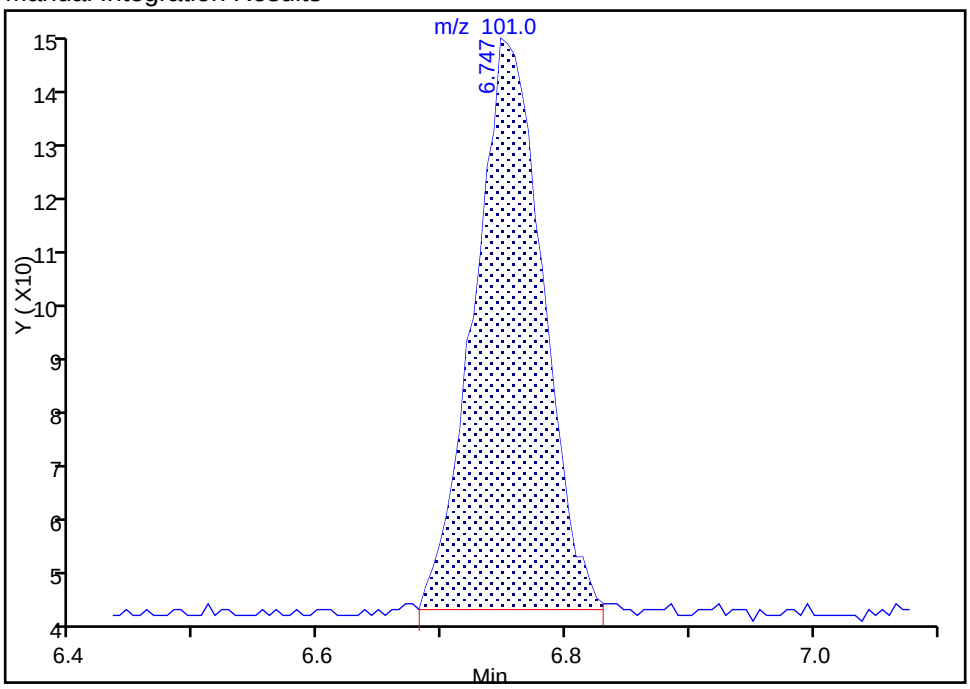
Not Detected
Expected RT: 6.74

Processing Integration Results



Manual Integration Results

RT: 6.75
Area: 378
Amount: 0.007195
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:39:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

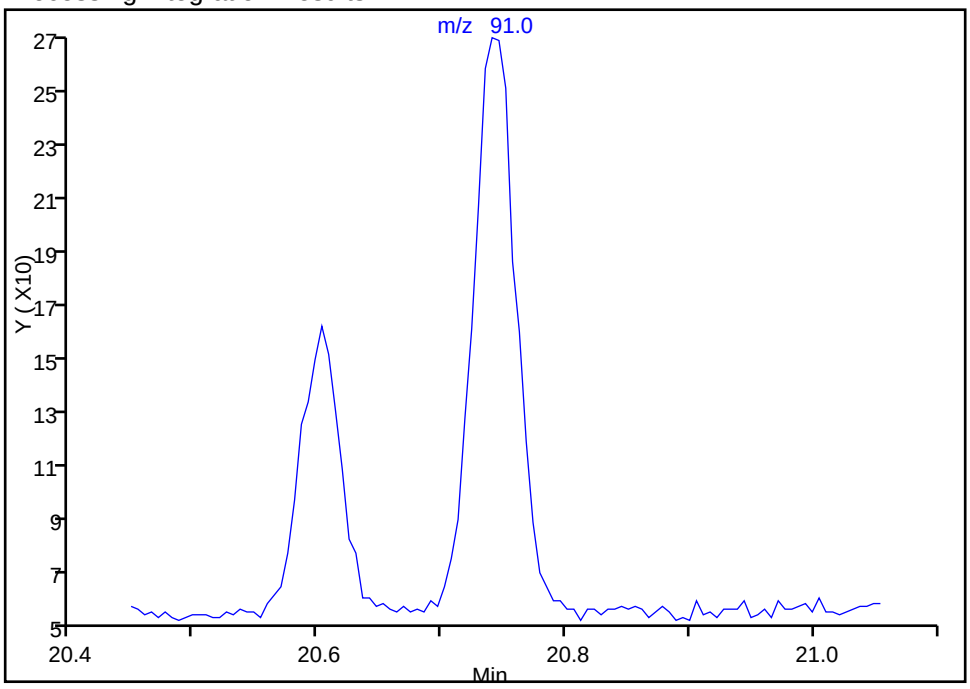
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Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

56 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

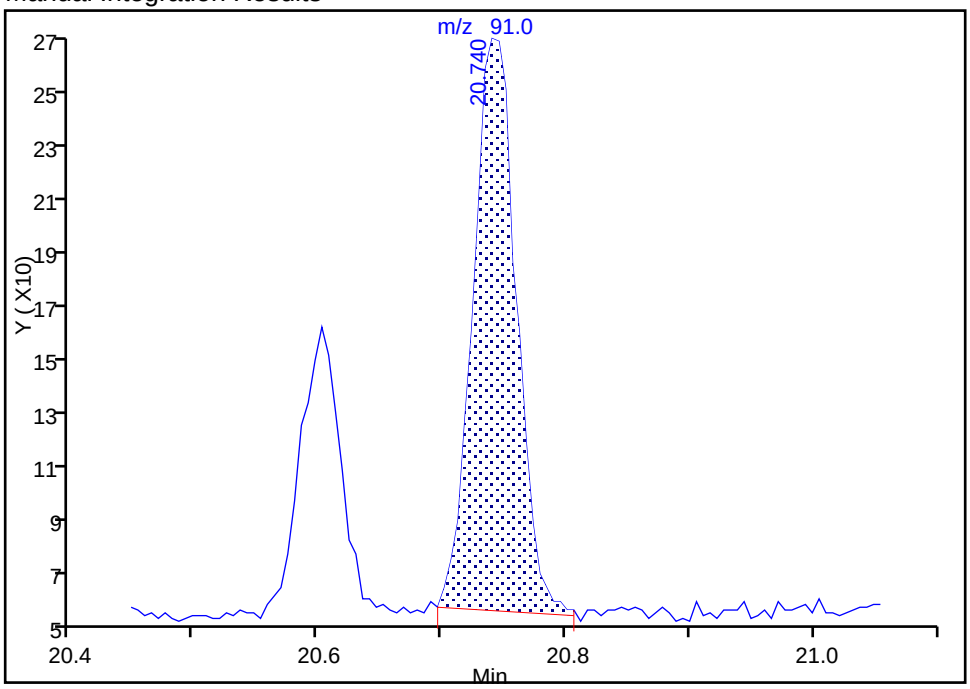
Not Detected
Expected RT: 20.74

Processing Integration Results



Manual Integration Results

RT: 20.74
Area: 498
Amount: 0.008189
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:40:02
Audit Action: Manually Integrated Audit Reason: Baseline

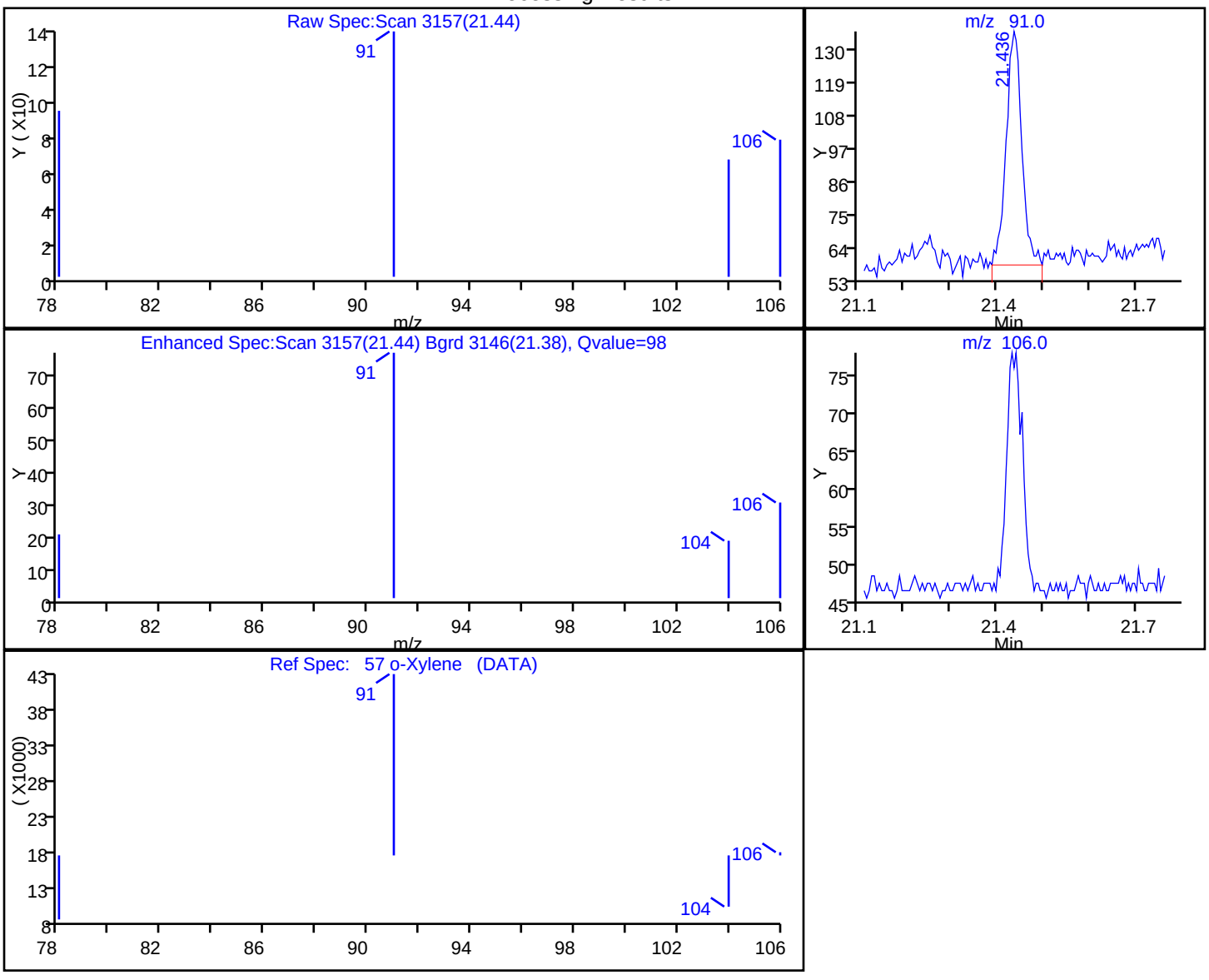
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021813.D				
Injection Date:	18-Feb-2018 22:29:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-7	Lab Sample ID:	320-35833-7		
Client ID:	34001132				
Operator ID:	SRS	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

57 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
21.44	91.00	186	0.003212
21.44	106.00	0	

Reviewer: jamese, 19-Feb-2018 12:40:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001217 | Lab Sample ID: 320-35833-8

Matrix: Air | Lab File ID: MS12021814.D

Analysis Method: TO-15 SIM | Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2018 23:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208998 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.015	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	0.0056	J	0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001217 Lab Sample ID: 320-35833-8

Matrix: Air Lab File ID: MS12021814.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2018 23:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D
Lims ID: 320-35833-A-8
Client ID: 34001217
Sample Type: Client
Inject. Date: 18-Feb-2018 23:30:30 ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-8
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:42:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	97	26113	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	124186	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	105827	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	98	65384	2.37	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	73652	2.00	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	98	75527	1.97	
8 Dichlorodifluoromethane	85	4.298	4.281	0.015	97	547	0.0113	
10 Chloromethane	50	4.767	4.735	0.030	100	543	0.0301	
15 Trichlorofluoromethane	101	6.764	6.764	0.022	98	457	0.008864	7M
18 Acetone	43	7.753	7.717	0.036	100	30160	1.02	
19 1,1,2-Trichloro-1,2,2-trif	101	7.797	7.785	0.009	10	238	0.007173	
22 Methylene Chloride	49	8.948	8.948	0.009	95	1780	0.0797	7M
38 Benzene	78	13.889	13.889	0.000	99	764	0.0152	
40 Trichloroethene	130	15.250	15.250	0.000	97	112	0.005566	
46 Toluene	91	17.803	17.808	-0.005	97	450	0.007423	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

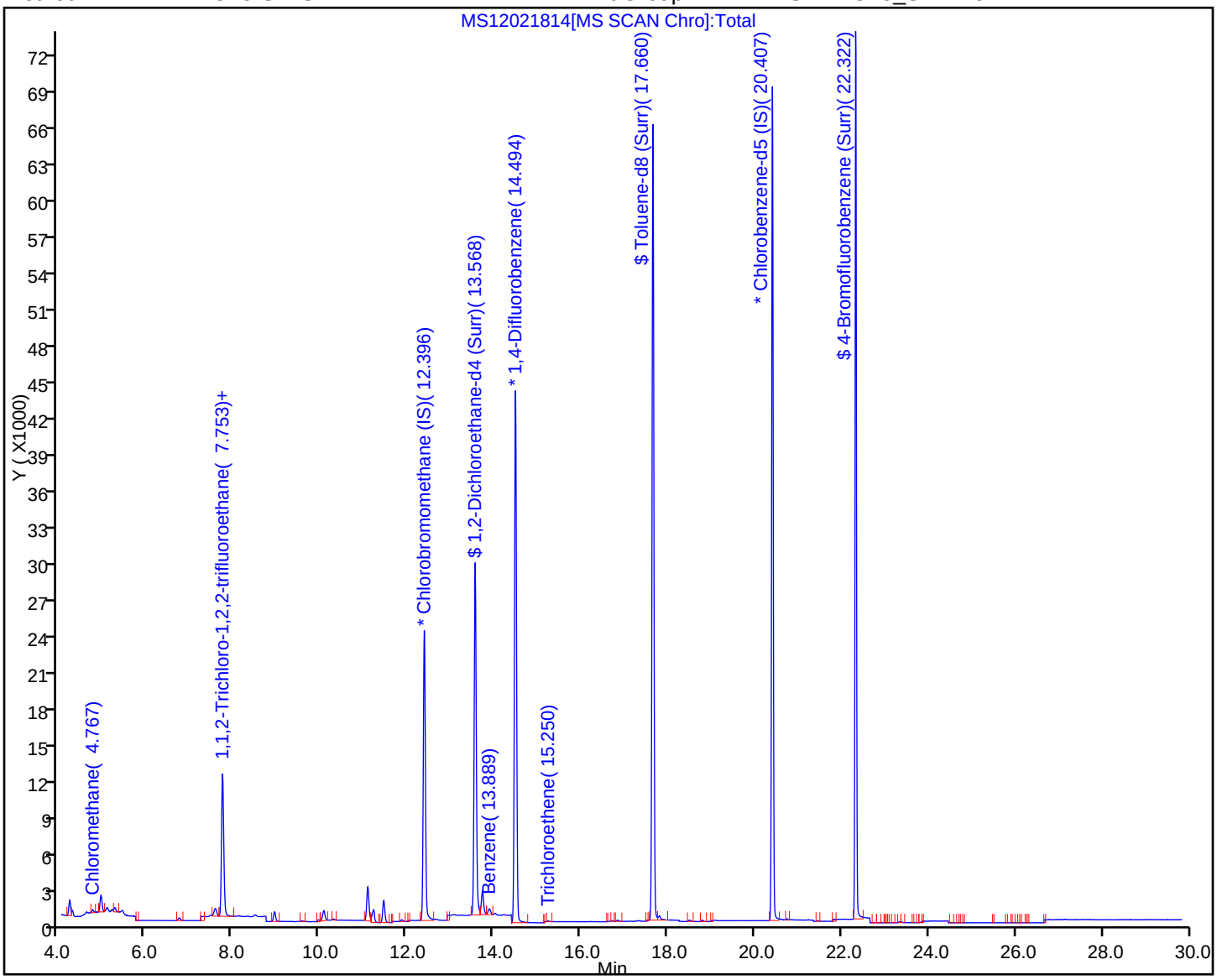
VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D

Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



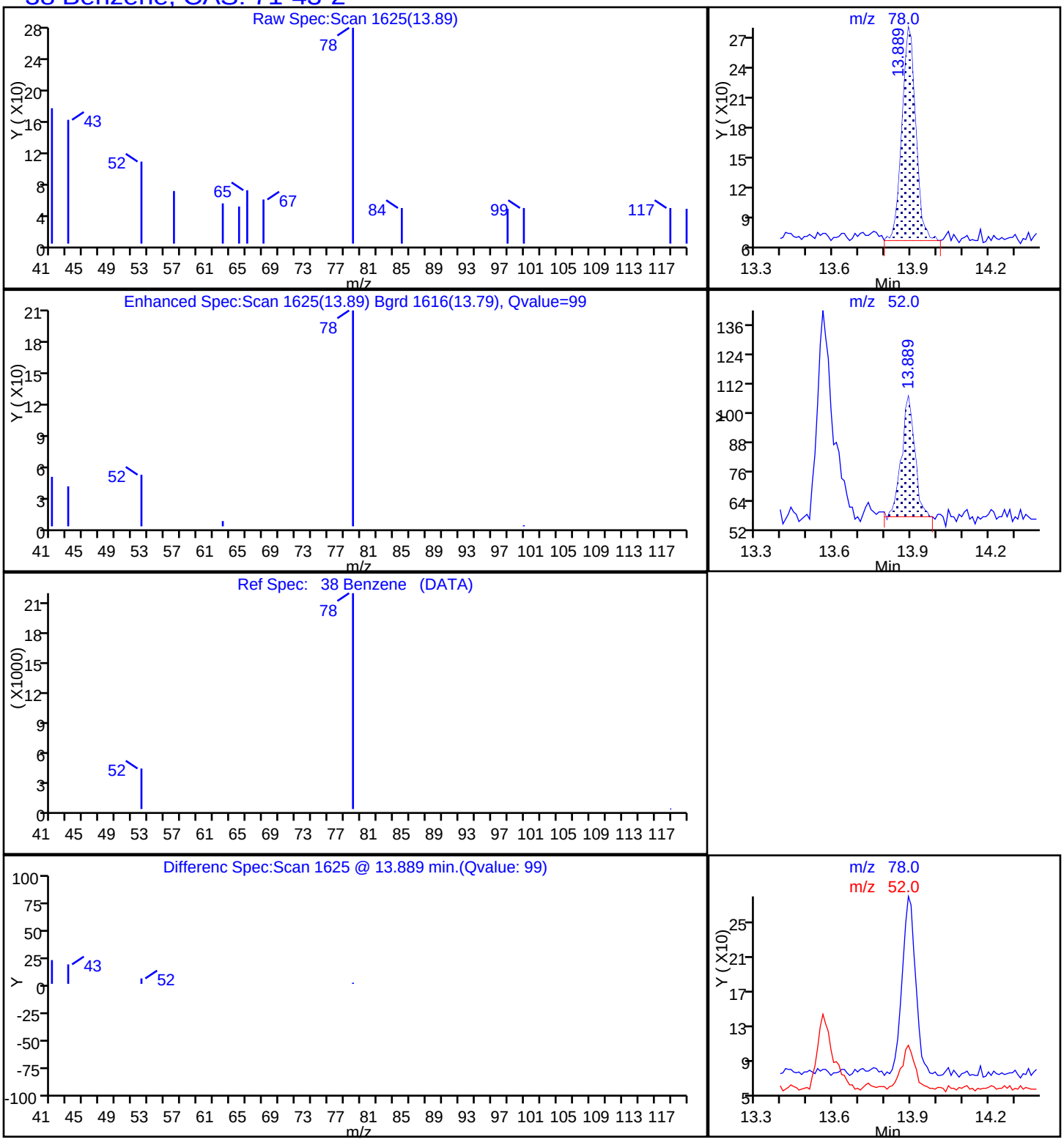
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D

Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



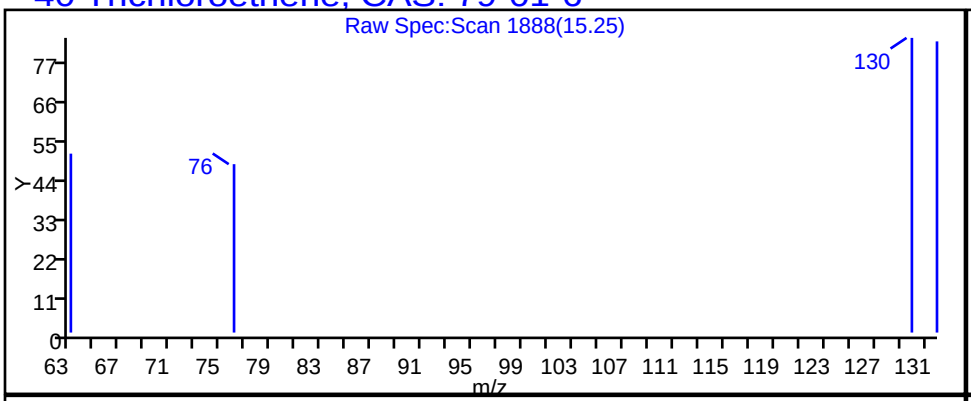
Report Date: 19-Feb-2018 14:13:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

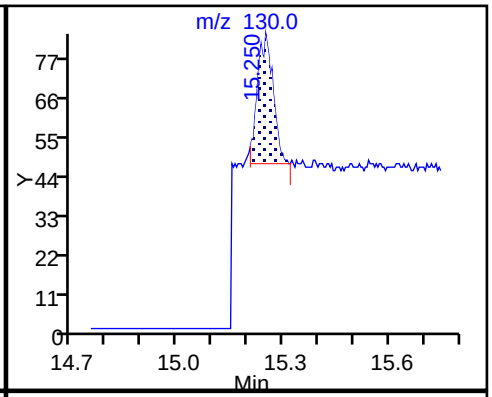
TestAmerica Sacramento

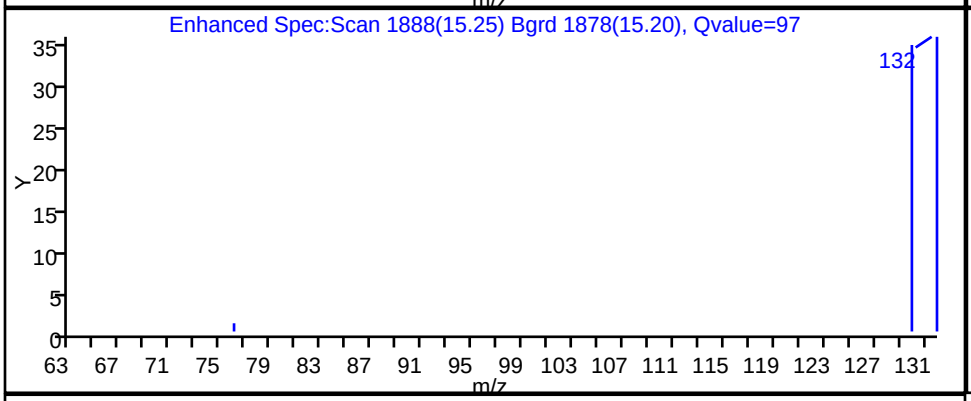
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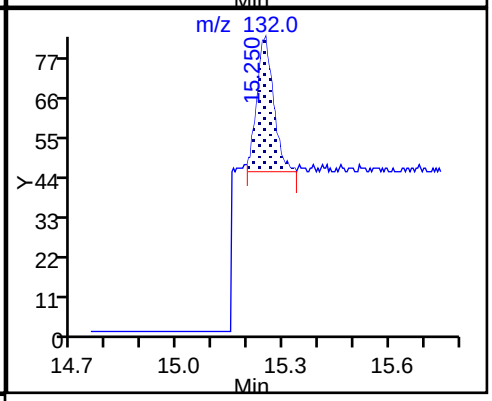
Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

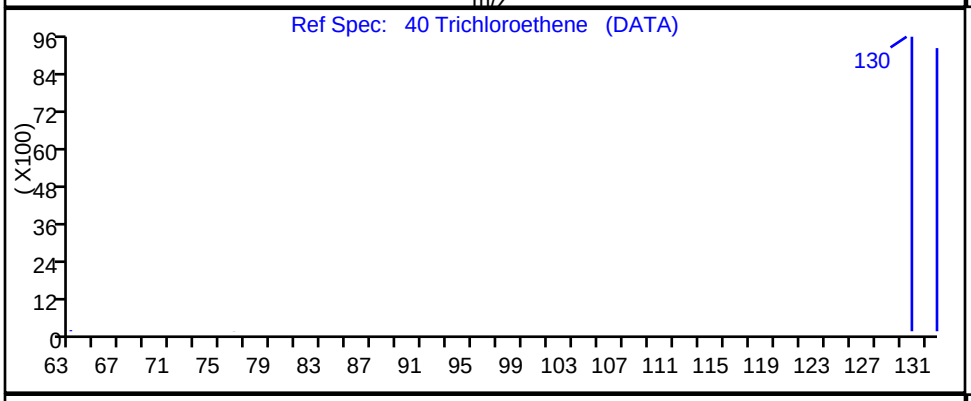
40 Trichloroethene, CAS: 79-01-6

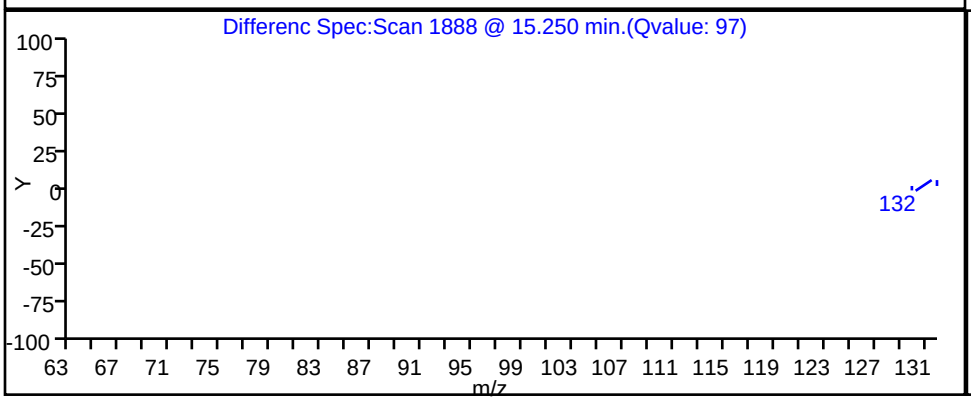


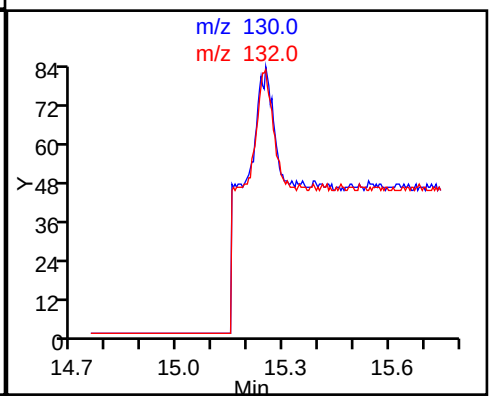












Report Date: 19-Feb-2018 14:13:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

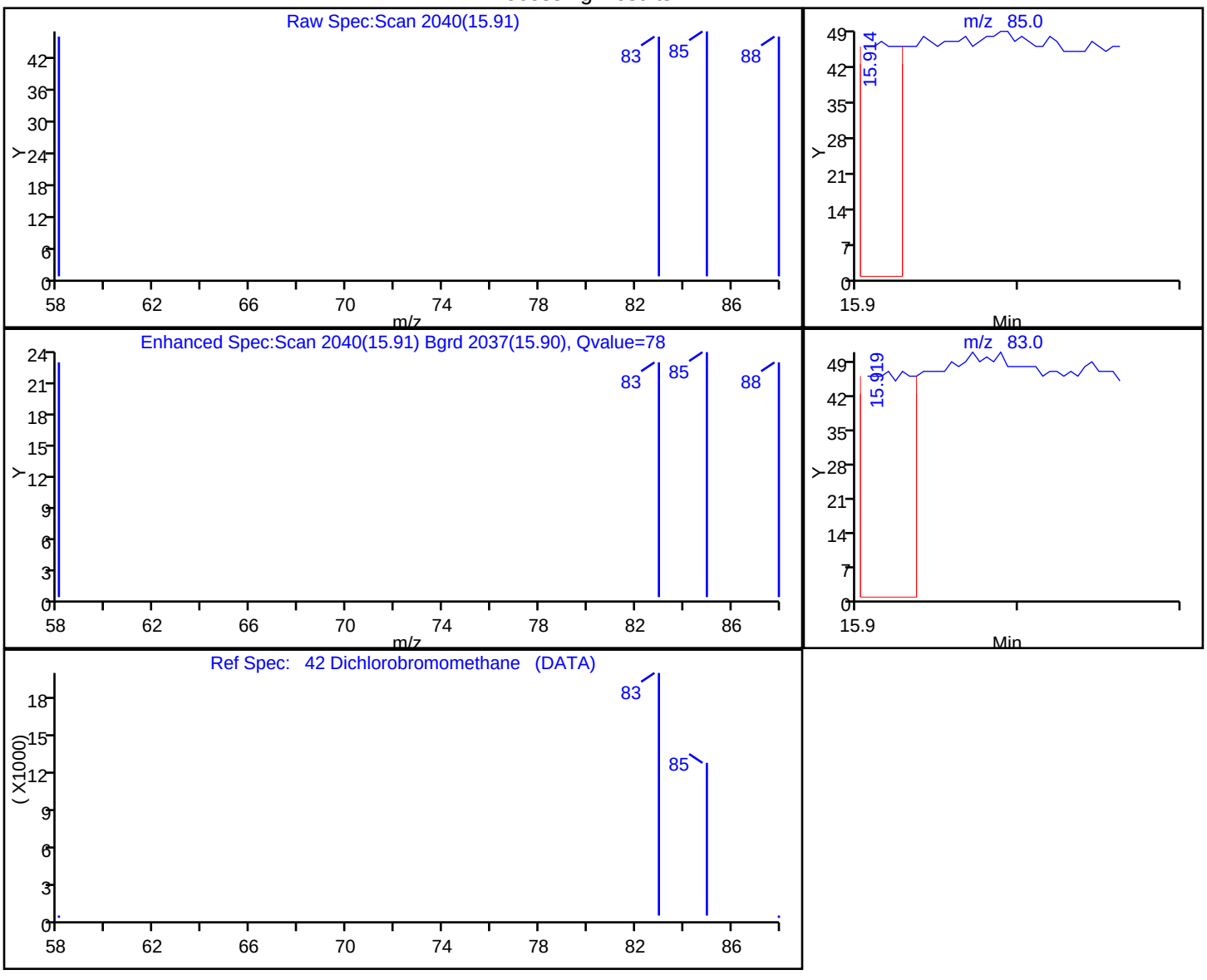
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D				
Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	73	0.002793
15.92	83.00	97	

Reviewer: jamese, 19-Feb-2018 12:42:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

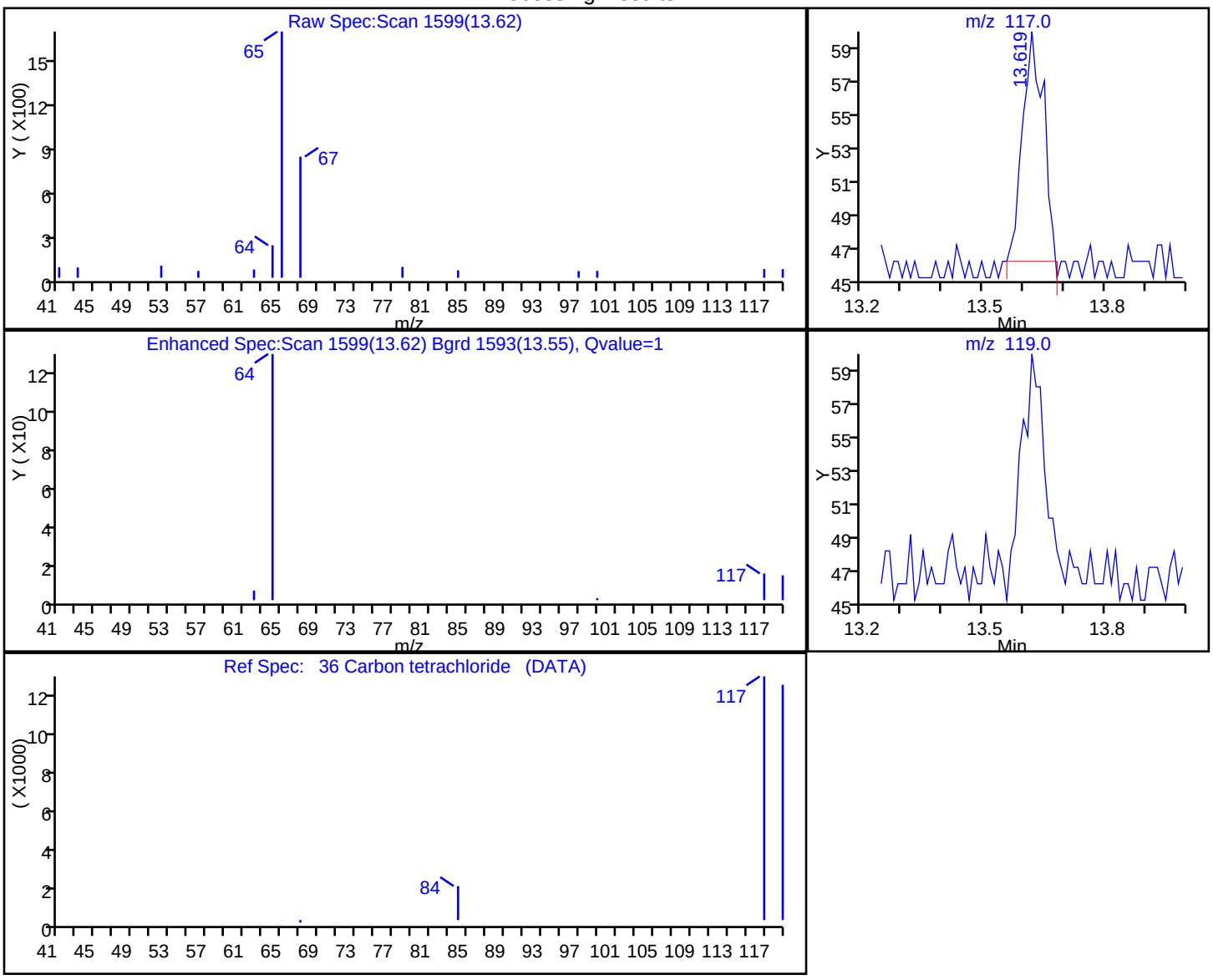
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D				
Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

36 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
13.62	117.00	50	0.001529
13.62	119.00	0	

Reviewer: jamese, 19-Feb-2018 12:42:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

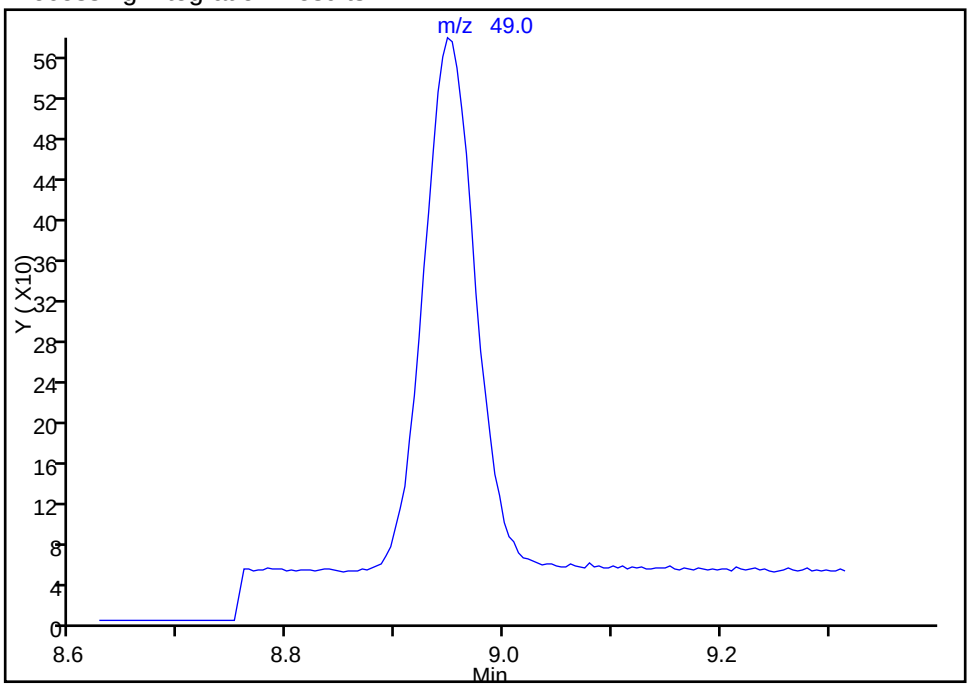
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Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

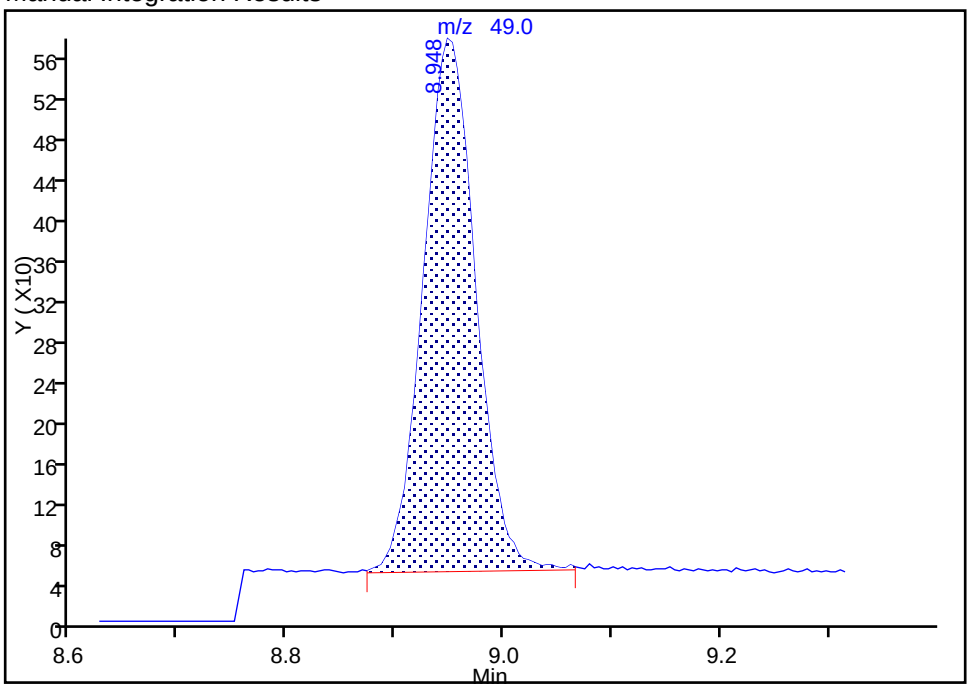
Not Detected
Expected RT: 8.94

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 1780
Amount: 0.079737
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:41:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

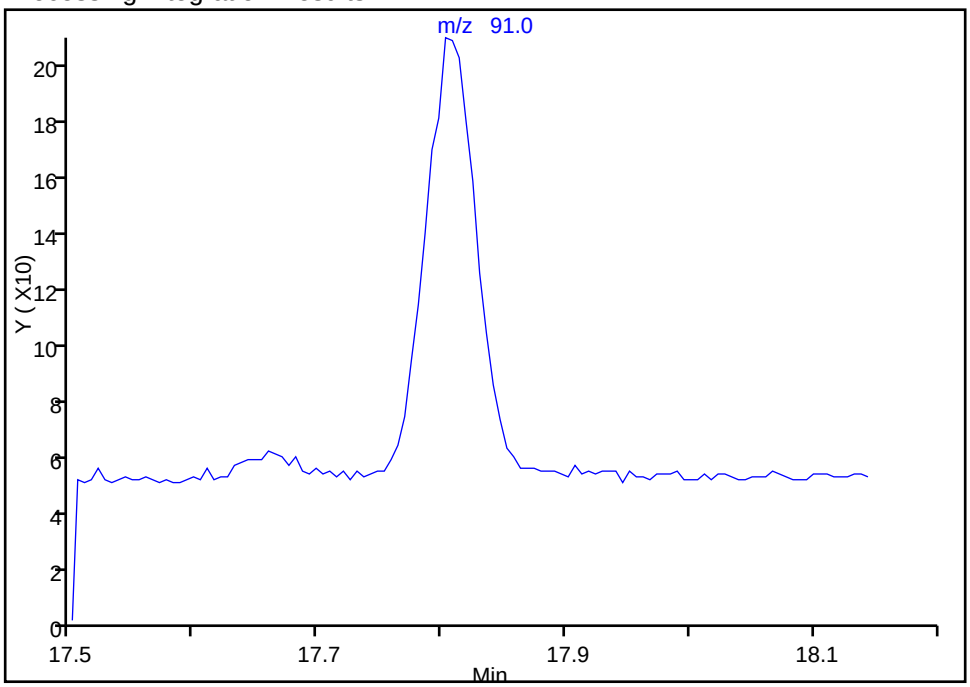
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D				
Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Signal: 1

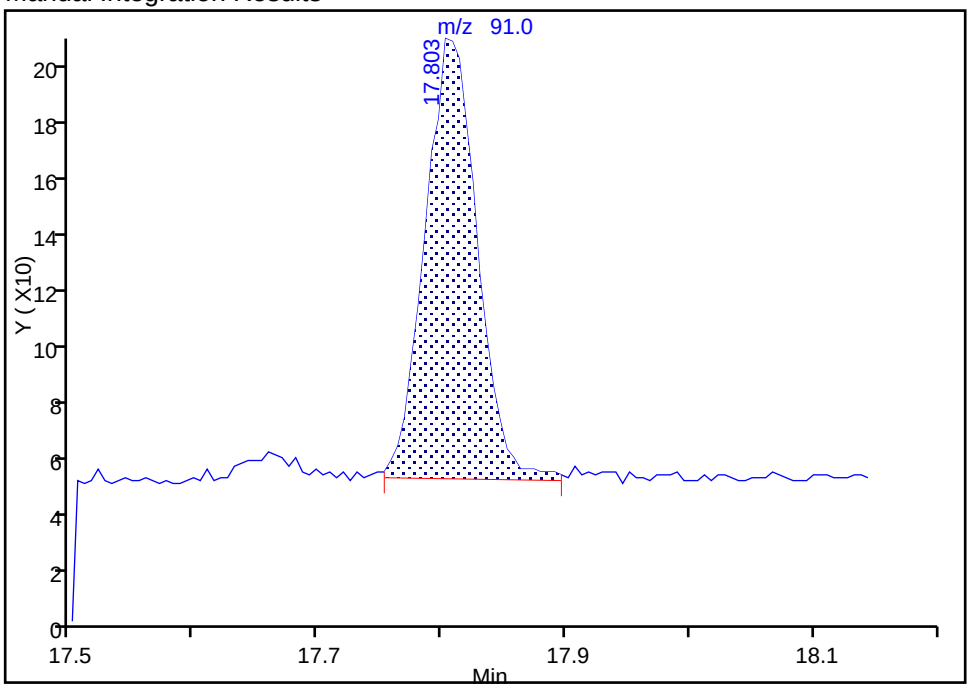
Not Detected
Expected RT: 17.81

Processing Integration Results



Manual Integration Results

RT: 17.80
Area: 450
Amount: 0.007423
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:41:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

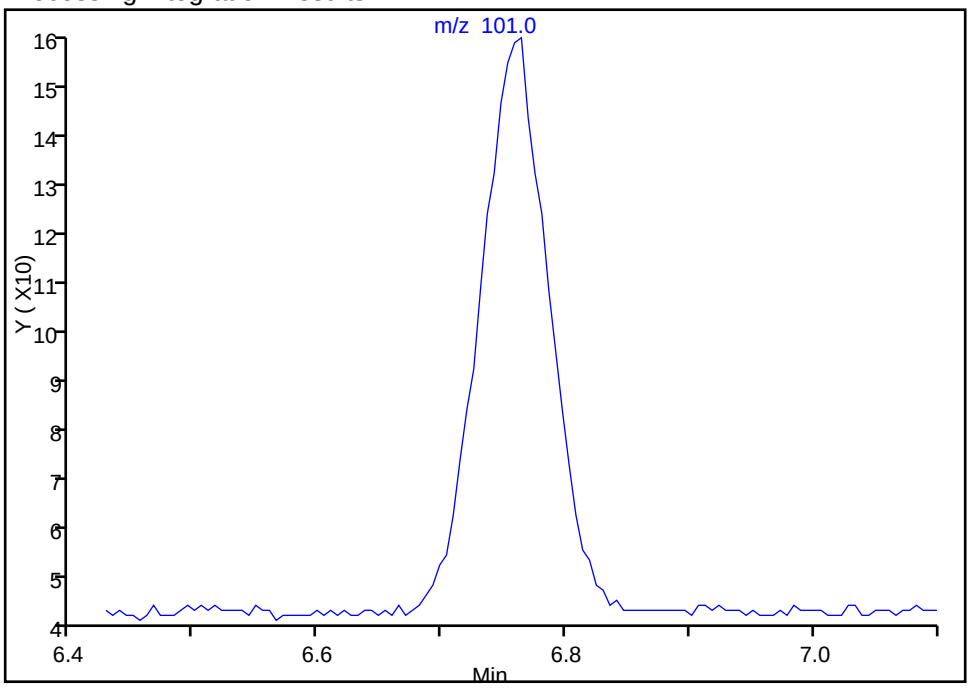
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Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

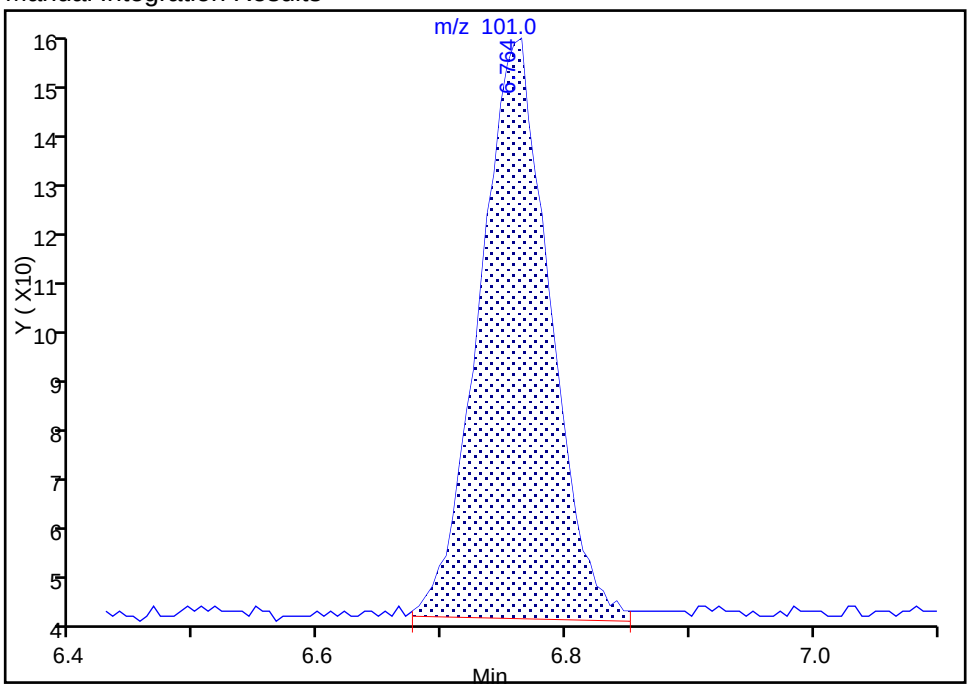
Not Detected
Expected RT: 6.74

Processing Integration Results



Manual Integration Results

RT: 6.76
Area: 457
Amount: 0.008864
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:41:12
Audit Action: Manually Integrated Audit Reason: Baseline

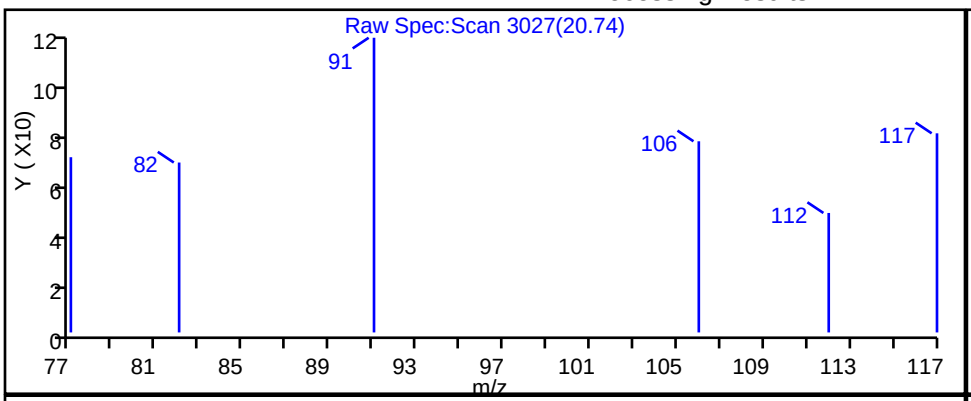
User Disabled Compound Report

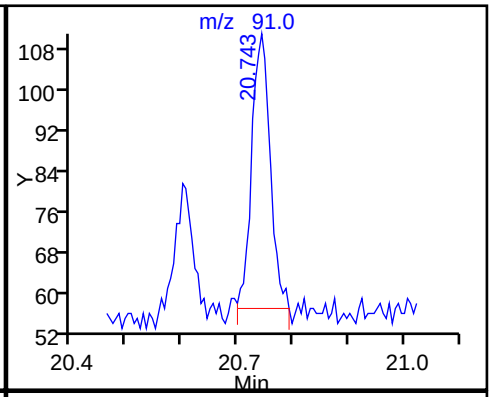
TestAmerica Sacramento

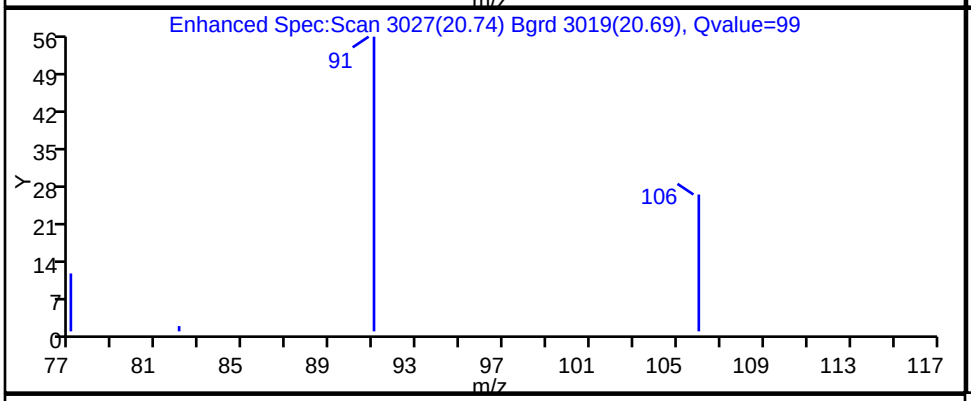
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021814.D				
Injection Date:	18-Feb-2018 23:30:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-8	Lab Sample ID:	320-35833-8		
Client ID:	34001217				
Operator ID:	SRS	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

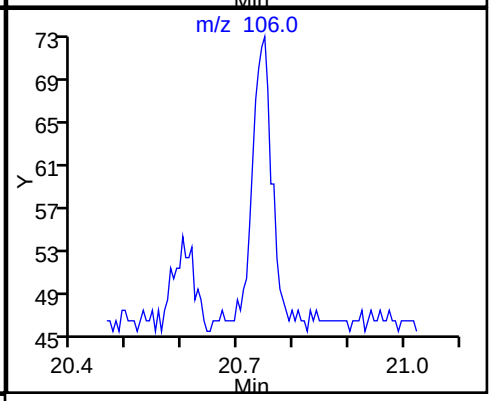
56 m-Xylene & p-Xylene, CAS: 179601-23-1

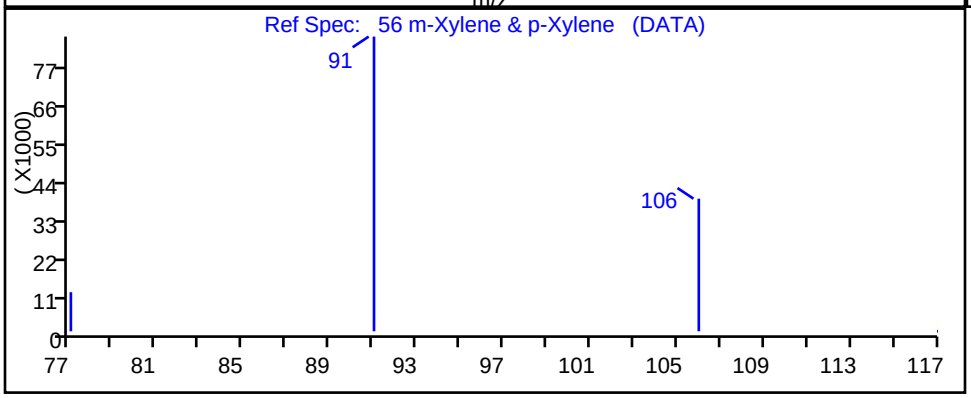
Processing Results











RT	Mass	Response	Amount
20.74	91.00	127	0.002114
20.74	106.00	0	

Reviewer: jamese, 19-Feb-2018 12:42:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34002114 Lab Sample ID: 320-35833-9

Matrix: Air Lab File ID: MS12021816.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 01:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34002114 Lab Sample ID: 320-35833-9

Matrix: Air Lab File ID: MS12021816.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 01:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021816.D
Lims ID: 320-35833-A-9
Client ID: 34002114
Sample Type: Client
Inject. Date: 19-Feb-2018 01:24:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-9
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 12:45:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	96	25564	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	121970	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.406	20.410	-0.004	97	104878	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	98	66397	2.45	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	71771	1.99	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	99	75721	1.99	
8 Dichlorodifluoromethane	85	4.306	4.281	0.023	99	591	0.0124	
10 Chloromethane	50	4.782	4.735	0.045	97	445	0.0252	7M
15 Trichlorofluoromethane	101	6.764	6.764	0.022	98	357	0.007073	7M
18 Acetone	43	7.762	7.717	0.045	100	20197	0.6954	
22 Methylene Chloride	49	8.948	8.948	0.009	94	2193	0.1003	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

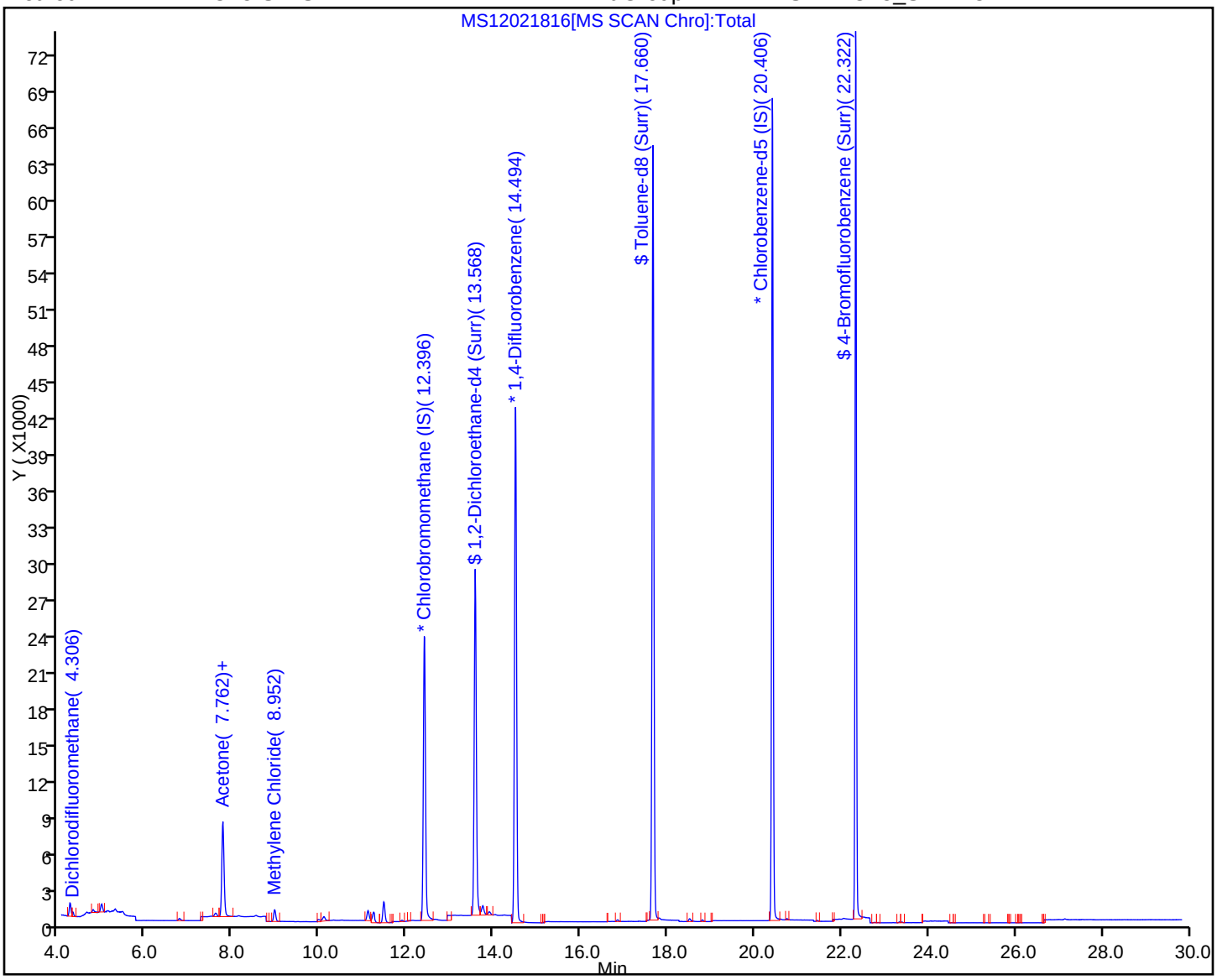
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021816.D				
Injection Date:	19-Feb-2018 01:24:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-9	Lab Sample ID:	320-35833-9		
Client ID:	34002114				
Operator ID:	SRS	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

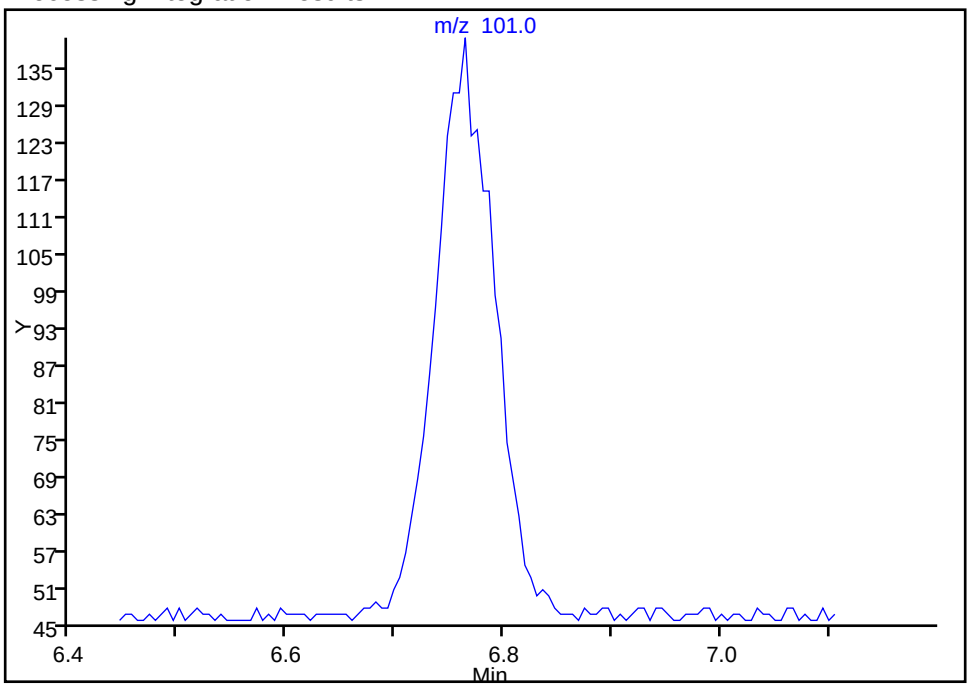
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021816.D				
Injection Date:	19-Feb-2018 01:24:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-9	Lab Sample ID:	320-35833-9		
Client ID:	34002114				
Operator ID:	SRS	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

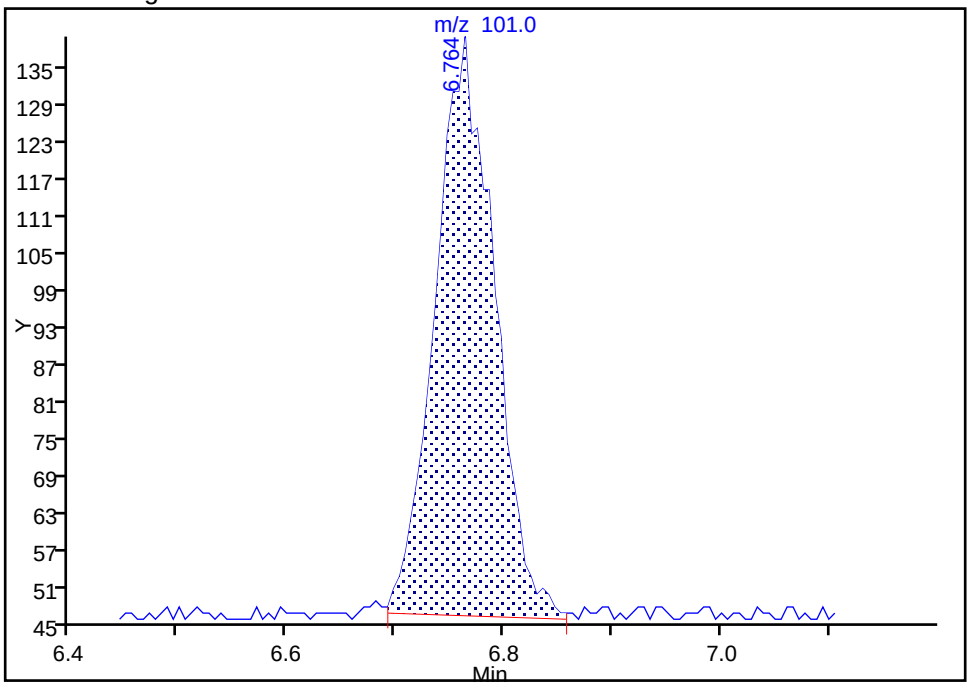
Not Detected
Expected RT: 6.74

Processing Integration Results



Manual Integration Results

RT: 6.76
Area: 357
Amount: 0.007073
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 12:44:41
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001124 | Lab Sample ID: 320-35833-10

Matrix: Air | Lab File ID: MS12021817.D

Analysis Method: TO-15 SIM | Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2018 02:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208998 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.019	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	0.0089	J	0.020	0.0050
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34001124 Lab Sample ID: 320-35833-10

Matrix: Air Lab File ID: MS12021817.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 02:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021817.D
Lims ID: 320-35833-A-10
Client ID: 34001124
Sample Type: Client
Inject. Date: 19-Feb-2018 02:26:30 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-0
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 14:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.396	12.401	-0.005	95	25803	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	123534	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	104511	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	98	65337	2.38	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	72534	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	98	74348	1.96	
8 Dichlorodifluoromethane	85	4.298	4.281	0.015	92	555	0.0116	
15 Trichlorofluoromethane	101	6.759	6.764	0.017	97	573	0.0112	
18 Acetone	43	7.735	7.717	0.018	100	75328	2.57	
19 1,1,2-Trichloro-1,2,2-trif	101	7.798	7.785	0.010	8	277	0.008449	
24 Methyl tert-butyl ether	73	9.564	9.577	-0.018	97	813	0.0191	
38 Benzene	78	13.889	13.889	0.000	61	963	0.0193	
40 Trichloroethene	130	15.245	15.250	-0.005	89	179	0.008943	
46 Toluene	91	17.808	17.808	0.000	99	2119	0.0351	
56 m-Xylene & p-Xylene	91	20.743	20.746	0.003	100	748	0.0126	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

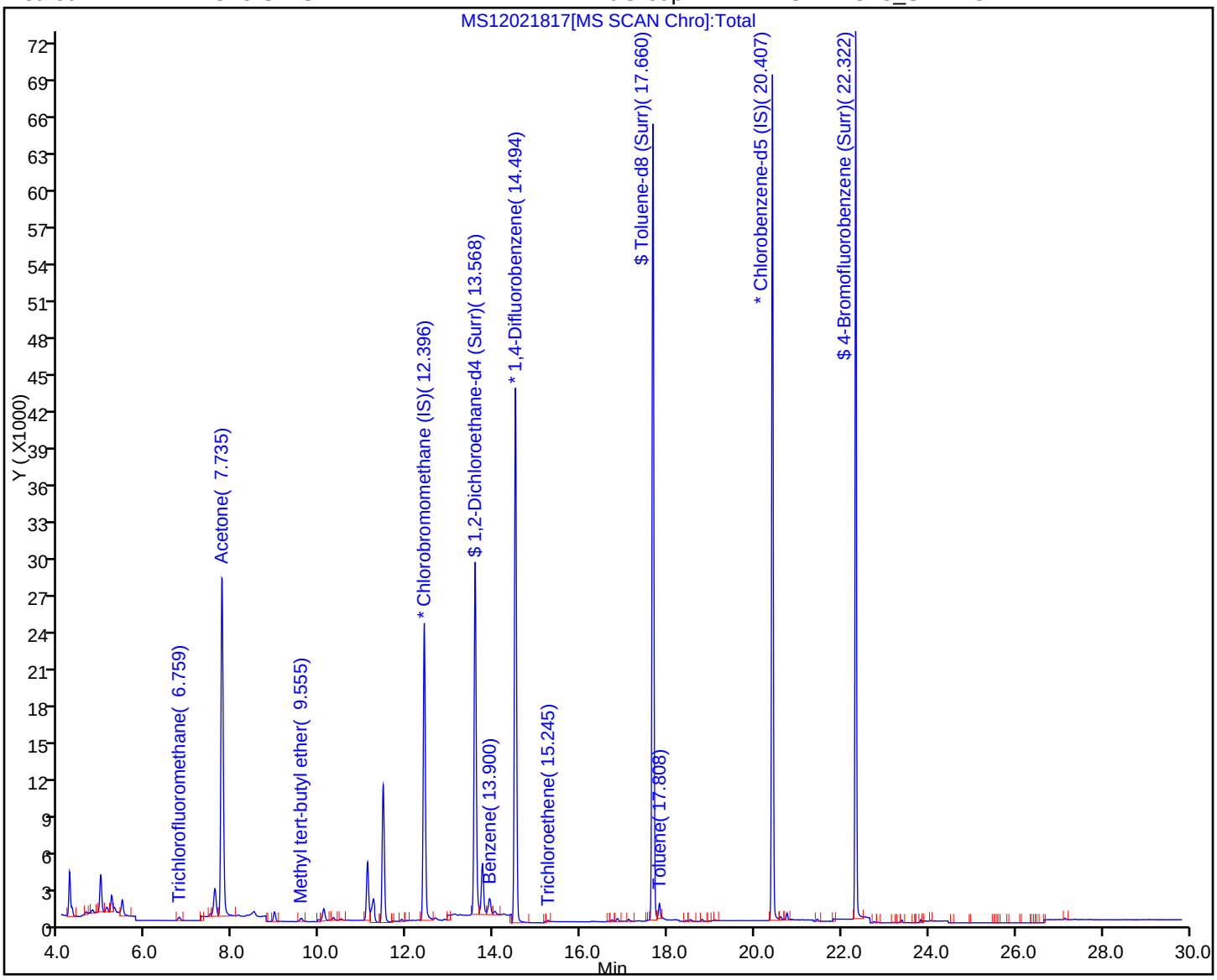
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021817.D				
Injection Date:	19-Feb-2018 02:26:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-10	Lab Sample ID:	320-35833-10		
Client ID:	34001124				
Operator ID:	SRS	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



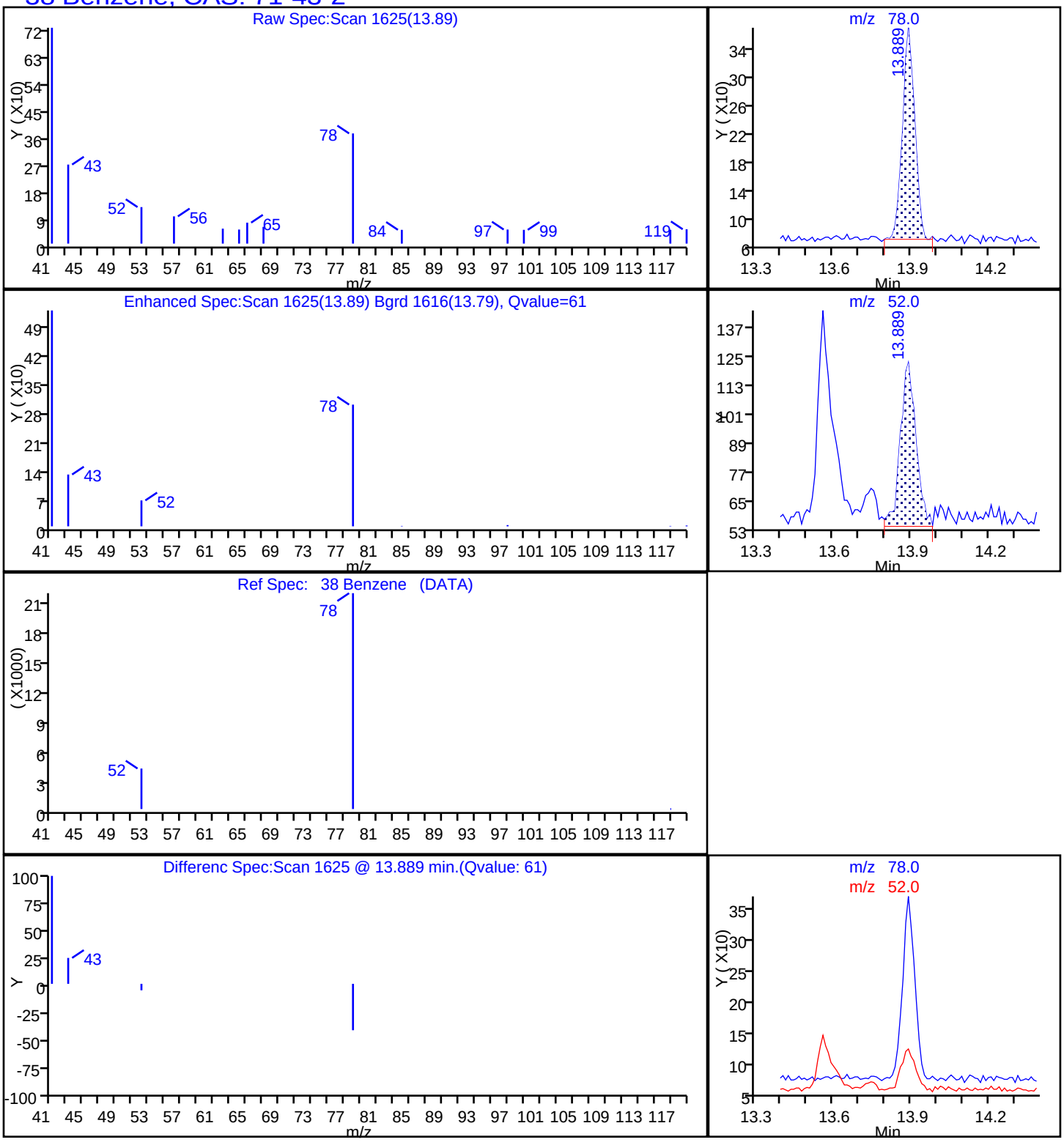
Report Date: 19-Feb-2018 14:13:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021817.D

Injection Date:	19-Feb-2018 02:26:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-10	Lab Sample ID:	320-35833-10		
Client ID:	34001124				
Operator ID:	SRS	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

38 Benzene, CAS: 71-43-2



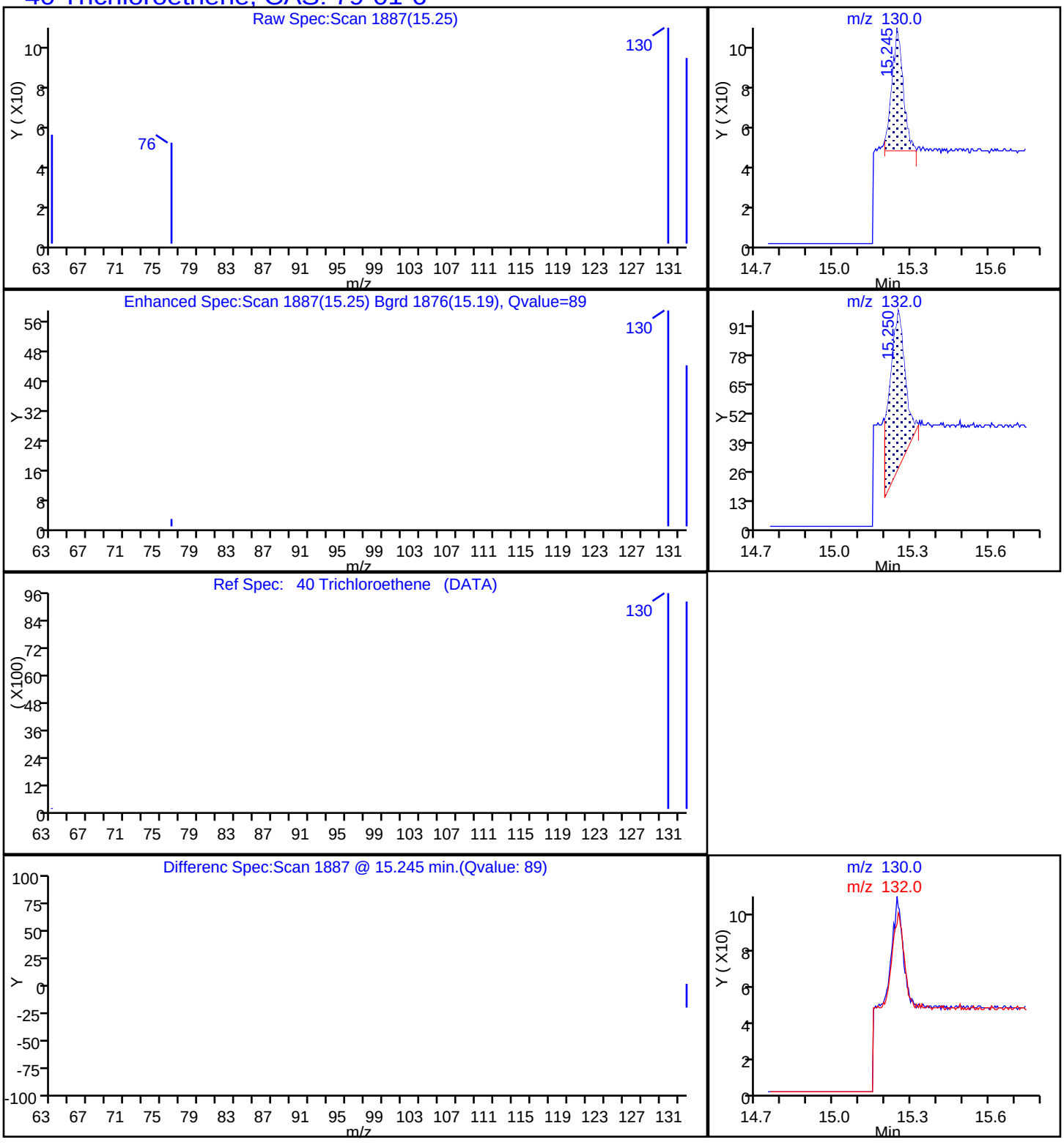
Report Date: 19-Feb-2018 14:13:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021817.D

Injection Date:	19-Feb-2018 02:26:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-10	Lab Sample ID:	320-35833-10		
Client ID:	34001124				
Operator ID:	SRS	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

40 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

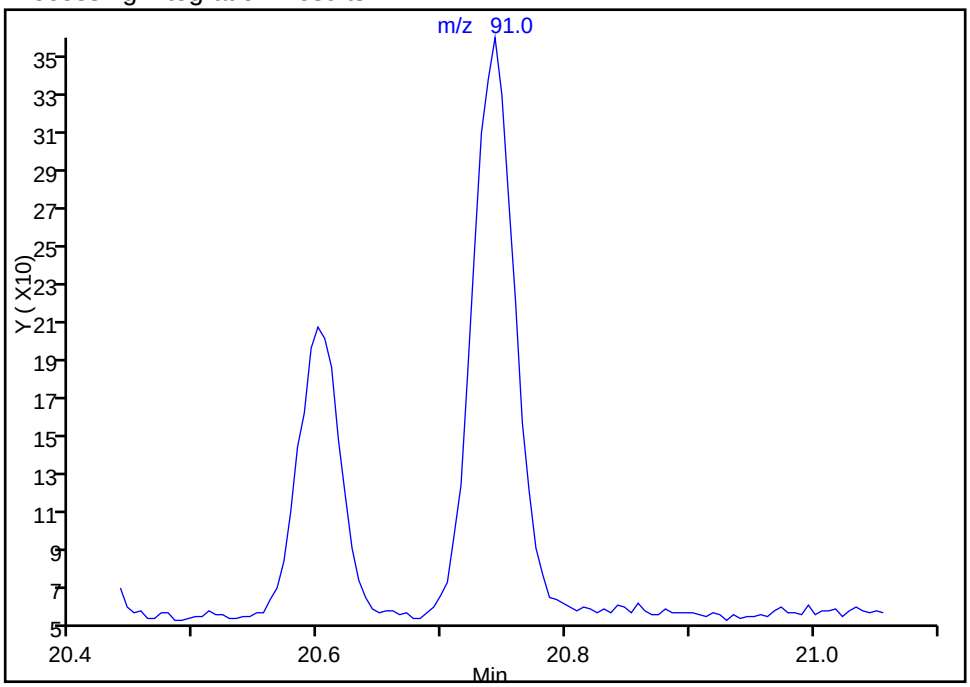
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021817.D				
Injection Date:	19-Feb-2018 02:26:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-10	Lab Sample ID:	320-35833-10		
Client ID:	34001124				
Operator ID:	SRS	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

56 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

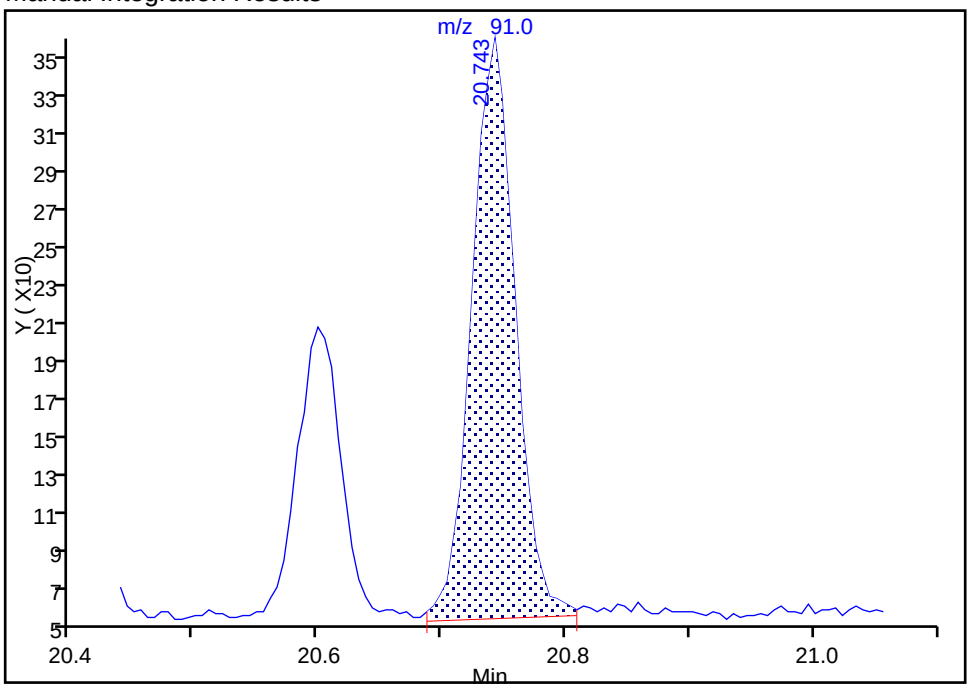
Not Detected
Expected RT: 20.74

Processing Integration Results



Manual Integration Results

RT: 20.74
Area: 748
Amount: 0.012606
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:09:47
Audit Action: Manually Integrated Audit Reason: Baseline

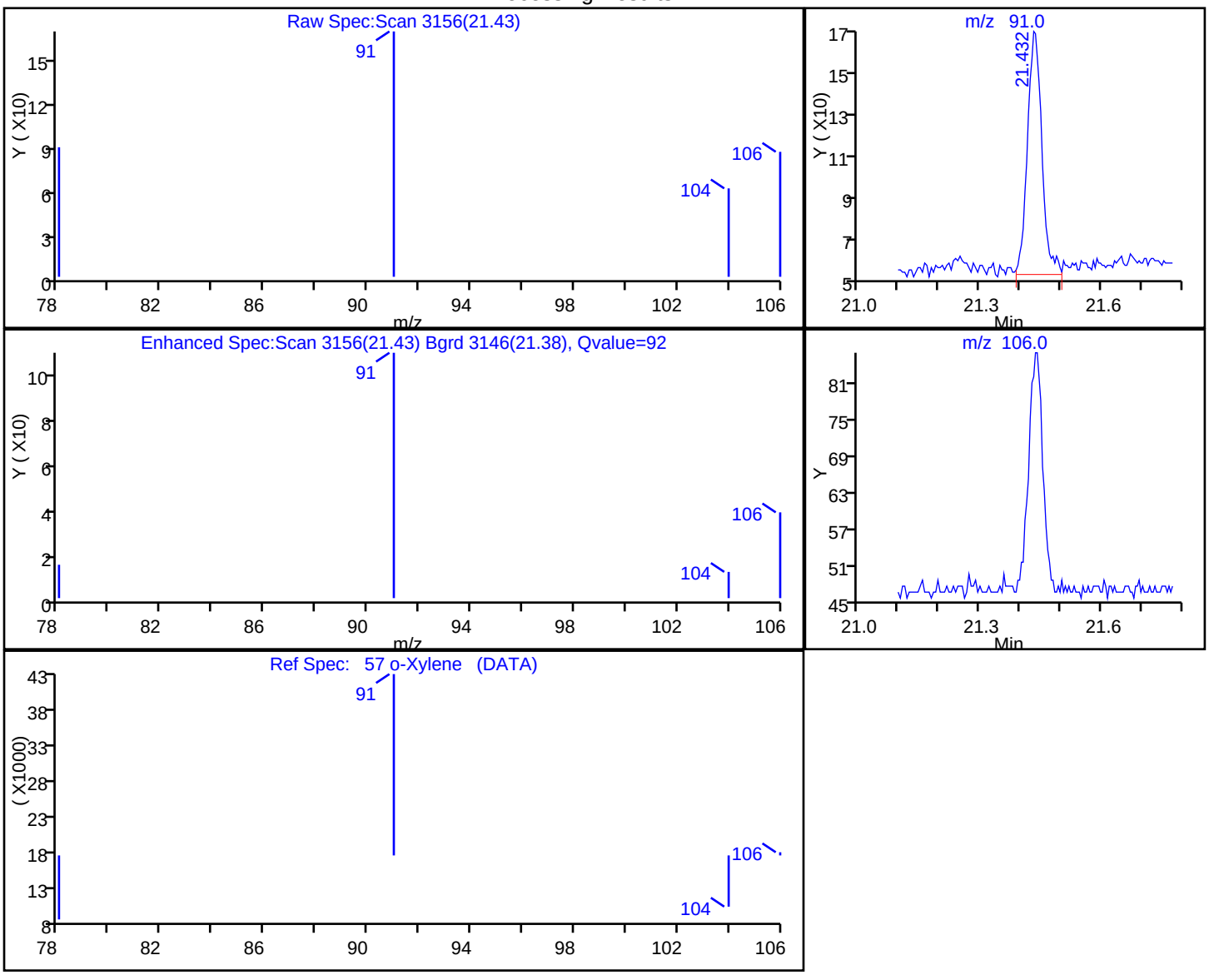
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021817.D				
Injection Date:	19-Feb-2018 02:26:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-10	Lab Sample ID:	320-35833-10		
Client ID:	34001124				
Operator ID:	SRS	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

57 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
21.43	91.00	264	0.004672
21.44	106.00	0	

Reviewer: jamese, 19-Feb-2018 14:10:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000342 Lab Sample ID: 320-35833-11

Matrix: Air Lab File ID: MS12021818.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 03:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	ND		0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	ND		0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000342 Lab Sample ID: 320-35833-11

Matrix: Air Lab File ID: MS12021818.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 03:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	0.017	J	0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021818.D
Lims ID: 320-35833-A-11
Client ID: 34000342
Sample Type: Client
Inject. Date: 19-Feb-2018 03:27:30 ALS Bottle#: 14 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-1
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 14:11:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	96	25723	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	122308	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.407	20.410	-0.003	98	103955	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	98	66868	2.46	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	72149	1.99	
$ 6 4-Bromofluorobenzene (Surr	174	22.322	22.325	-0.003	99	74679	1.98	
8 Dichlorodifluoromethane	85	4.306	4.281	0.023	98	535	0.0112	
10 Chloromethane	50	4.774	4.735	0.037	93	468	0.0263	7M
18 Acetone	43	7.762	7.717	0.045	98	21030	0.7196	
22 Methylene Chloride	49	8.952	8.948	0.013	94	2067	0.0940	7M
57 o-Xylene	91	21.437	21.436	0.001	91	955	0.0170	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

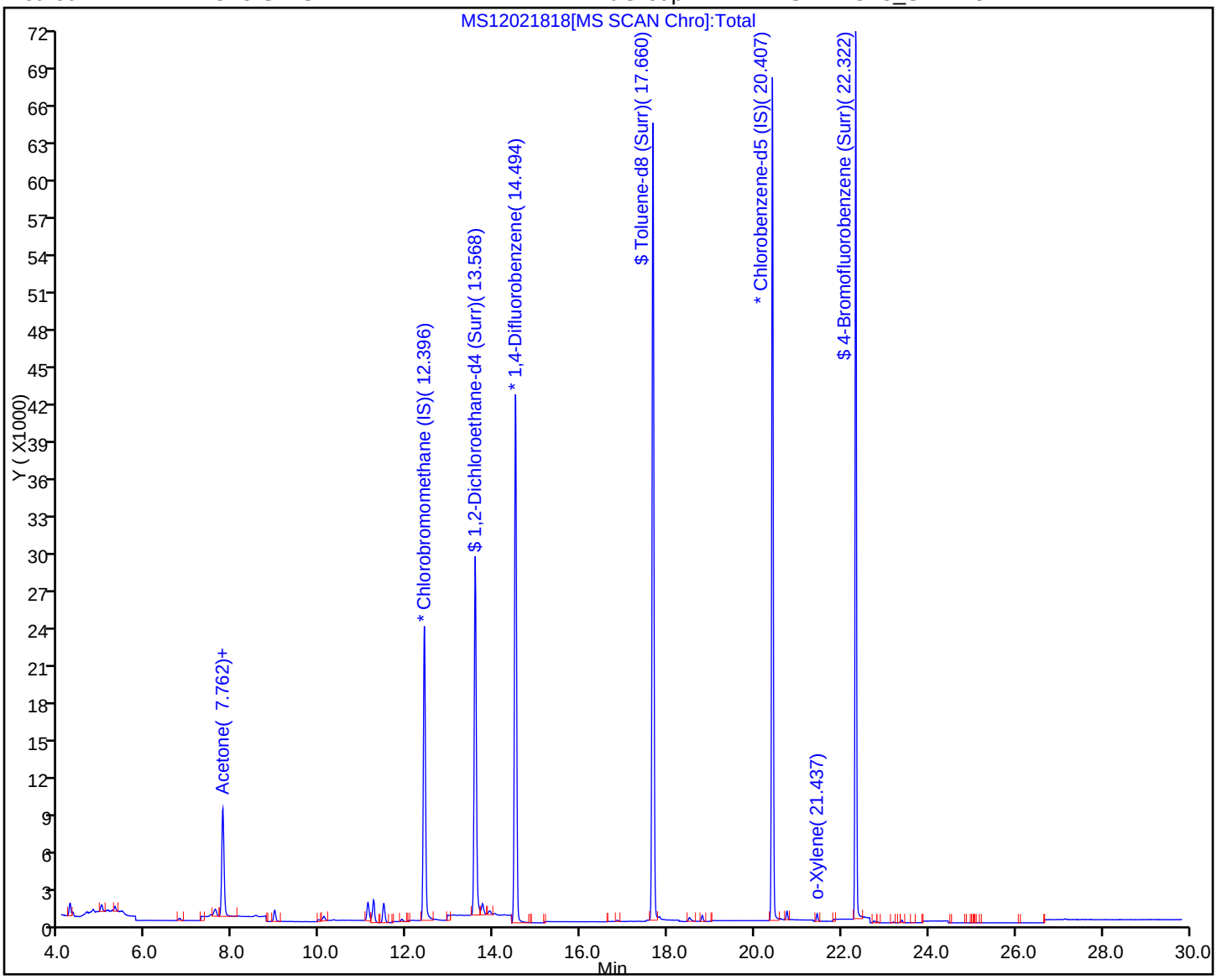
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:39 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021818.D				
Injection Date:	19-Feb-2018 03:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-11	Lab Sample ID:	320-35833-11		
Client ID:	34000342				
Operator ID:	SRS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



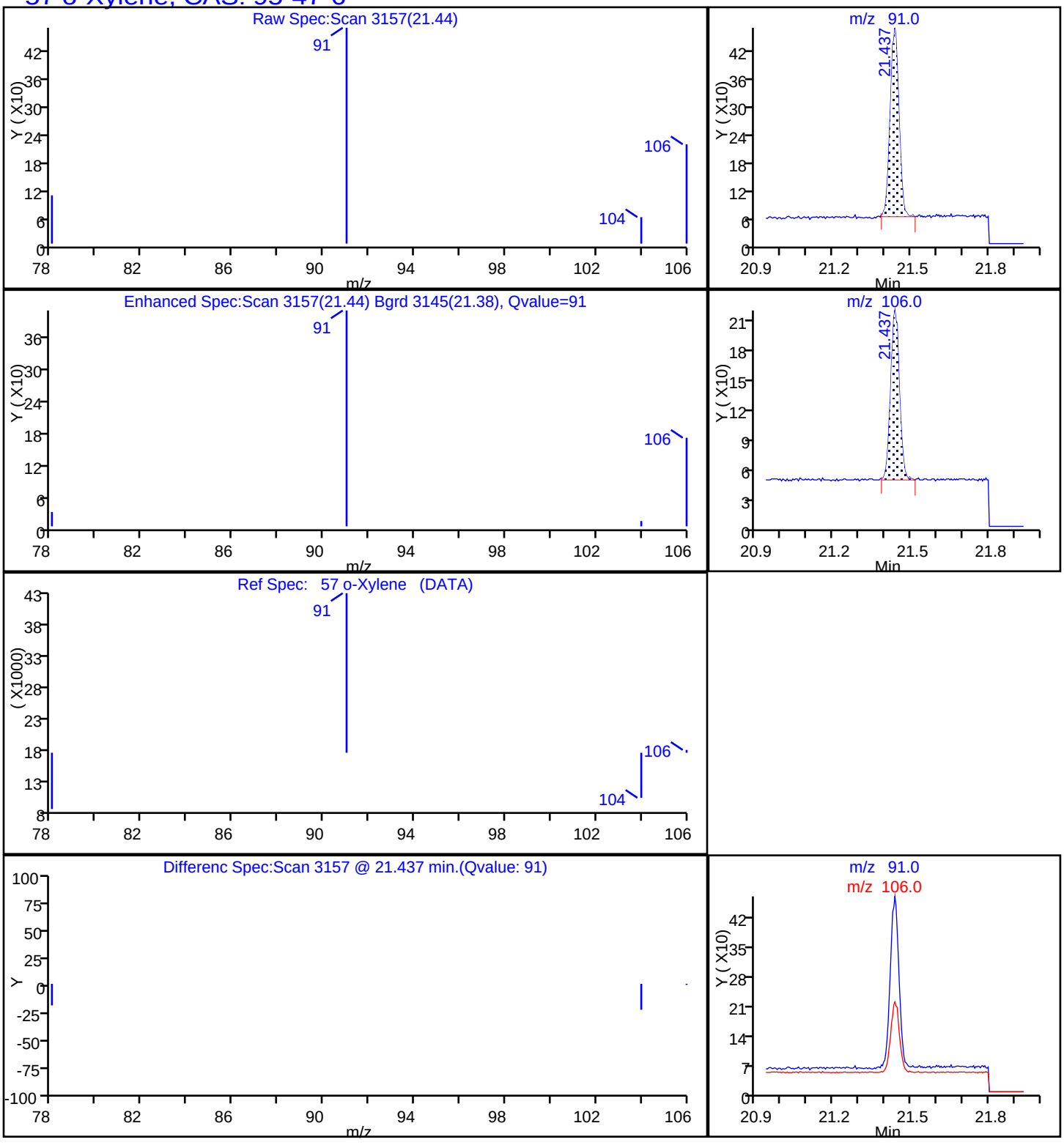
Report Date: 19-Feb-2018 14:13:40 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021818.D

Injection Date:	19-Feb-2018 03:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-11	Lab Sample ID:	320-35833-11		
Client ID:	34000342				
Operator ID:	SRS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

57 o-Xylene, CAS: 95-47-6



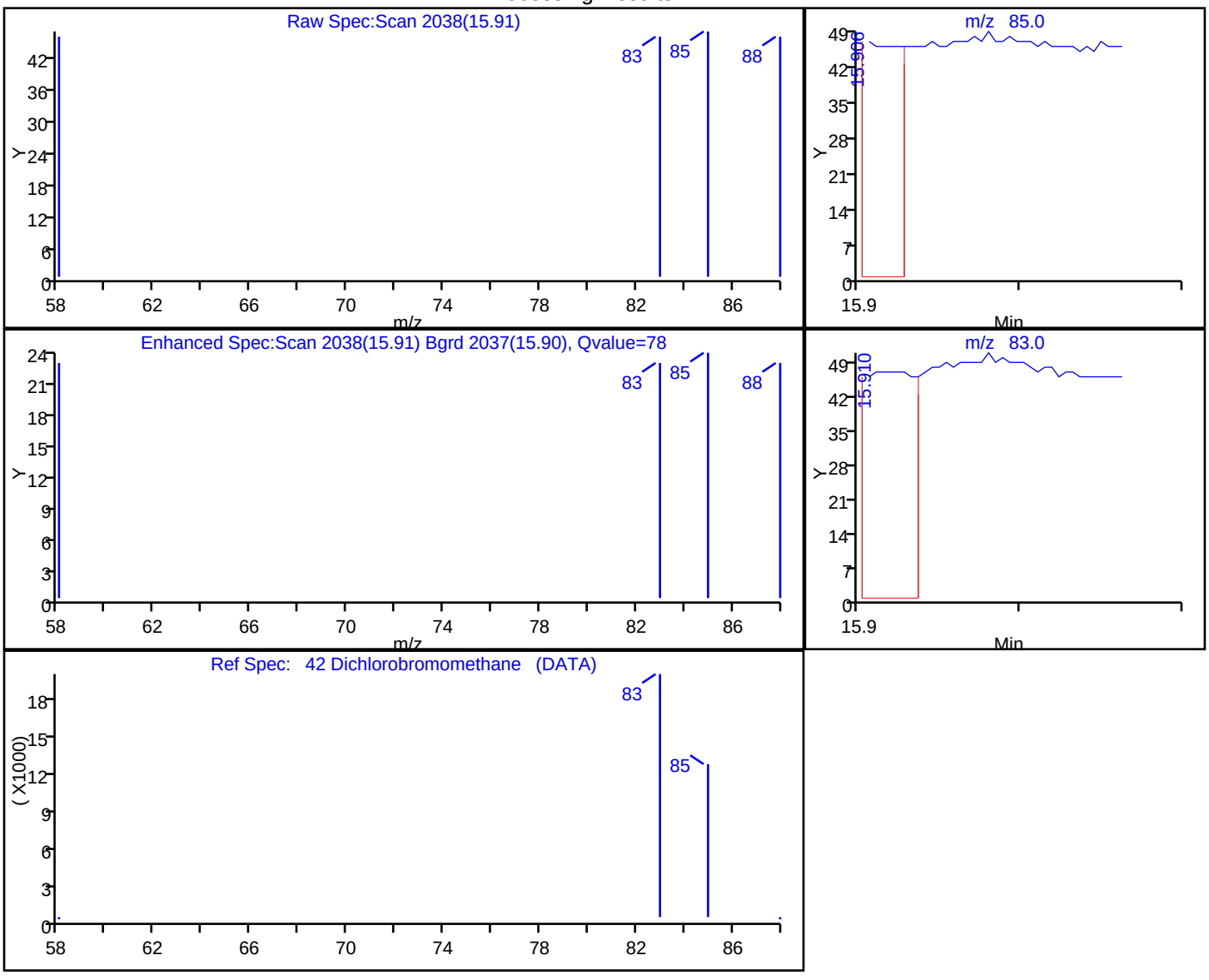
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021818.D				
Injection Date:	19-Feb-2018 03:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-11	Lab Sample ID:	320-35833-11		
Client ID:	34000342				
Operator ID:	SRS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

42 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
15.91	85.00	73	0.002836
15.91	83.00	98	

Reviewer: jamese, 19-Feb-2018 14:11:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

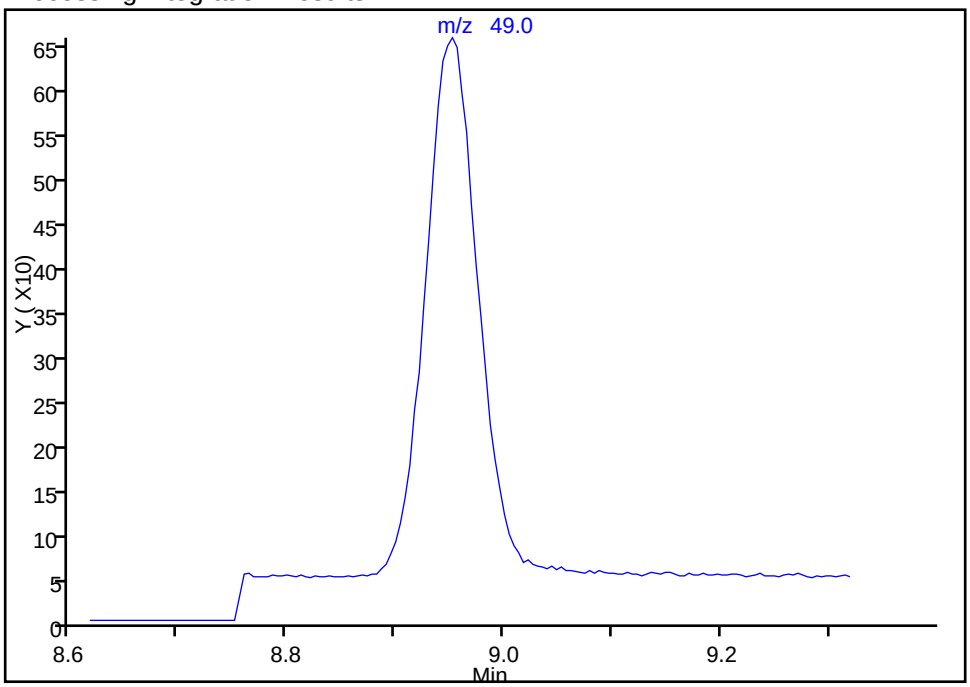
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021818.D				
Injection Date:	19-Feb-2018 03:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-11	Lab Sample ID:	320-35833-11		
Client ID:	34000342				
Operator ID:	SRS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

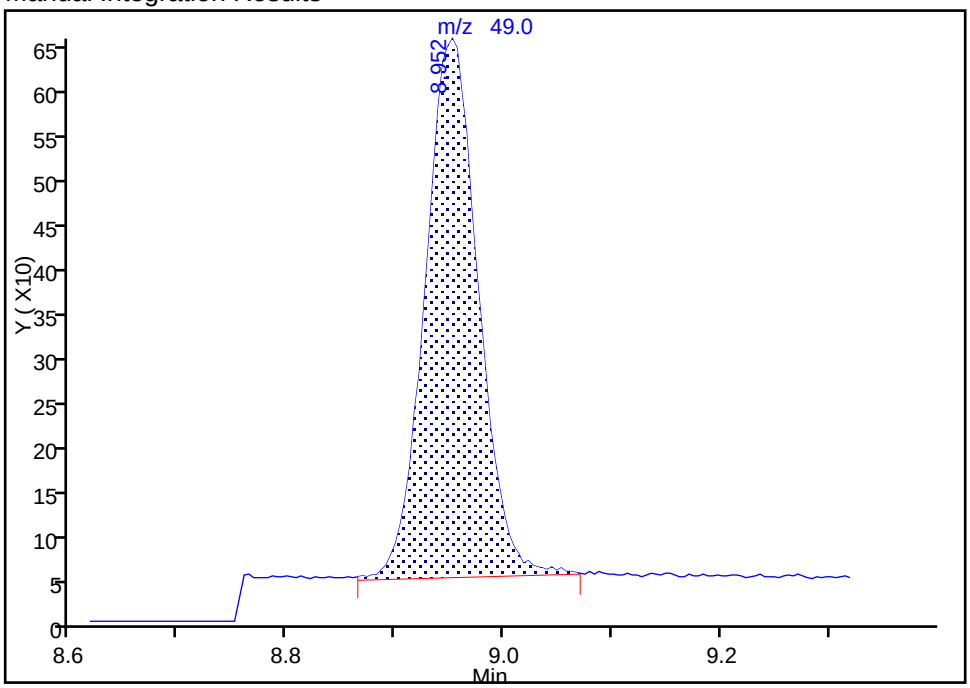
Not Detected
Expected RT: 8.94

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 2067
Amount: 0.093998
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:10:46
Audit Action: Manually Integrated Audit Reason: Baseline

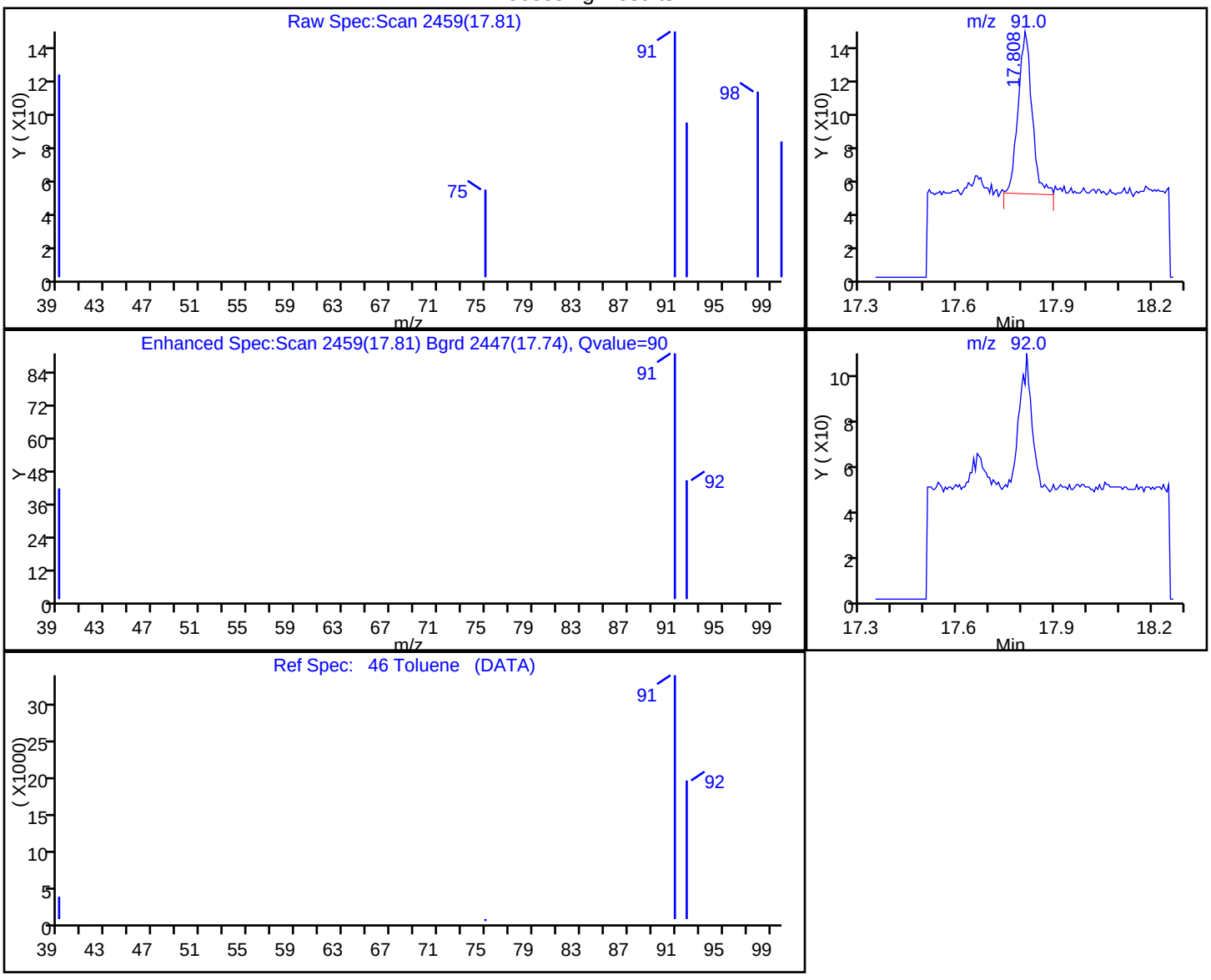
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021818.D				
Injection Date:	19-Feb-2018 03:27:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-11	Lab Sample ID:	320-35833-11		
Client ID:	34000342				
Operator ID:	SRS	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

46 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
17.81	91.00	282	0.004723
17.81	92.00	0	

Reviewer: jamese, 19-Feb-2018 14:11:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000016 Lab Sample ID: 320-35833-12

Matrix: Air Lab File ID: MS12021819.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 04:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.014	J	0.020	0.010
100-44-7	Benzyl chloride	ND		0.10	0.010
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND		0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.010
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.010
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0070	0.0028
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.010
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.010
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.010
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0050
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0050
78-87-5	1,2-Dichloropropane	ND		0.040	0.0050
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0050
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0050
123-91-1	1,4-Dioxane	ND		0.10	0.010
100-41-4	Ethylbenzene	ND		0.020	0.010
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
75-09-2	Methylene Chloride	ND		0.20	0.10
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.010
108-88-3	Toluene	0.011	J	0.020	0.010
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.010
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.0050
79-01-6	Trichloroethene	0.0055	J	0.020	0.0050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Client Sample ID: 34000016 Lab Sample ID: 320-35833-12

Matrix: Air Lab File ID: MS12021819.D

Analysis Method: TO-15 SIM Date Collected: 02/06/2018 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2018 04:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208998 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.010
179601-23-1	m,p-Xylene	ND		0.040	0.020
95-47-6	o-Xylene	ND		0.020	0.010
96-18-4	1,2,3-Trichloropropane	ND		0.040	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021819.D
Lims ID: 320-35833-A-12
Client ID: 34000016
Sample Type: Client
Inject. Date: 19-Feb-2018 04:28:30 ALS Bottle#: 15 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 320-35833-A-2
Operator ID: SRS Instrument ID: ATMS12

Method: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\TO15-SIMSIM.m
Limit Group: MSA - TO15_SIM - ICAL
Last Update: 19-Feb-2018 14:13:24 Calib Date: 05-Dec-2017 05:26:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS12\20171204-51300.b\MS12120420.D

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: jamese Date: 19-Feb-2018 14:13:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.401	12.401	0.000	96	25259	2.00	
* 2 1,4-Difluorobenzene	114	14.494	14.494	0.000	100	120687	2.00	
* 3 Chlorobenzene-d5 (IS)	117	20.410	20.410	0.000	99	101209	2.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.568	13.568	0.000	99	65687	2.45	
$ 5 Toluene-d8 (Surr)	100	17.660	17.660	0.000	100	70868	1.98	
$ 6 4-Bromofluorobenzene (Surr	174	22.325	22.325	0.000	100	72391	1.97	
8 Dichlorodifluoromethane	85	4.305	4.281	0.022	98	443	0.009439	
15 Trichlorofluoromethane	101	6.764	6.764	0.022	99	347	0.006958	7M
18 Acetone	43	7.753	7.717	0.036	100	39680	1.38	
22 Methylene Chloride	49	8.948	8.948	0.009	94	1705	0.0790	7M
24 Methyl tert-butyl ether	73	9.564	9.577	-0.018	100	517	0.0124	
38 Benzene	78	13.889	13.889	0.000	99	679	0.0139	
40 Trichloroethene	130	15.241	15.250	-0.009	100	107	0.005472	
46 Toluene	91	17.808	17.808	0.000	98	673	0.0114	
55 Ethylbenzene	91	20.603	20.603	0.000	100	571	0.007777	7M
56 m-Xylene & p-Xylene	91	20.746	20.746	0.006	100	966	0.0168	7M
57 o-Xylene	91	21.436	21.436	0.000	93	403	0.007365	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

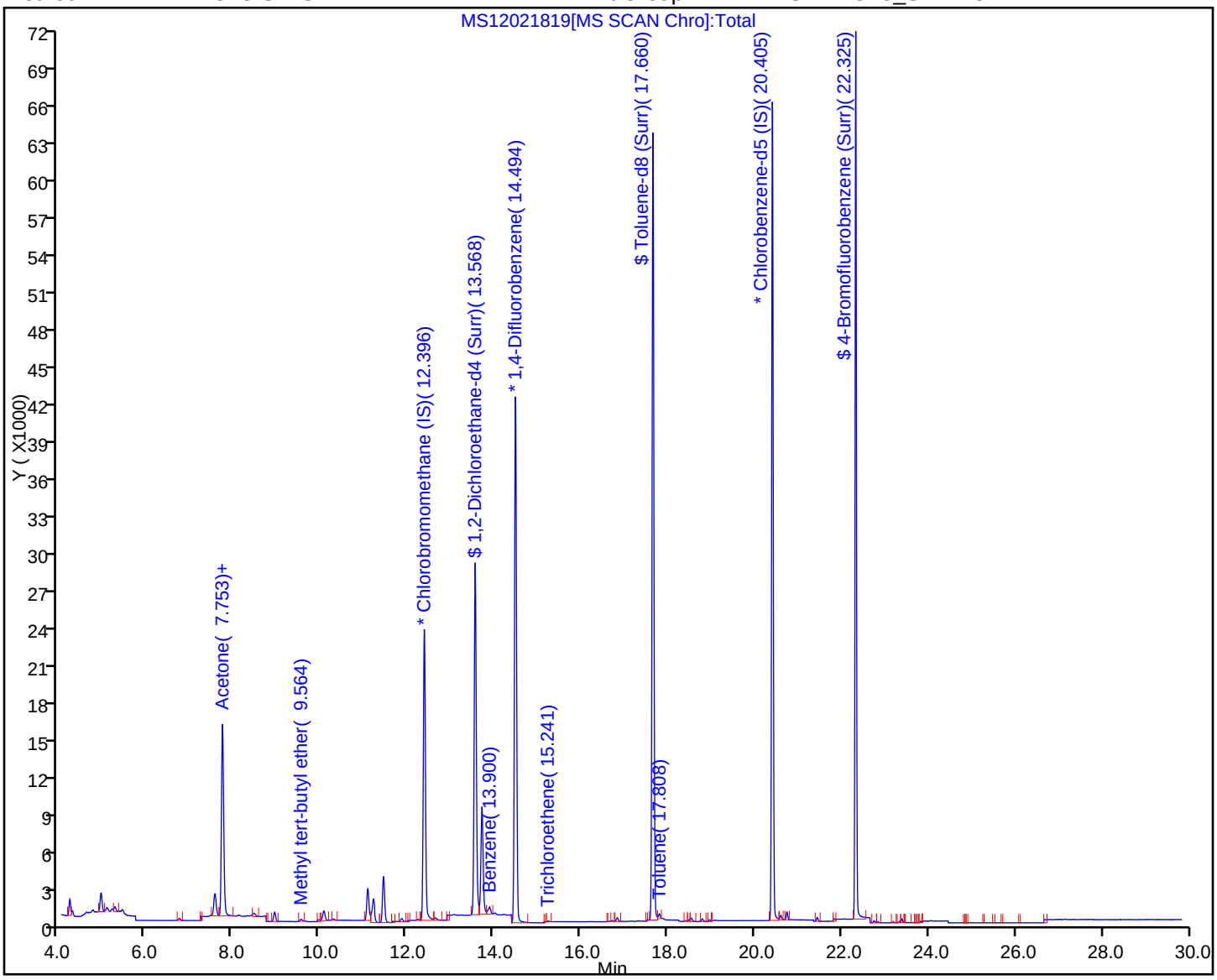
Reagents:

VAMSIS20_00103 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 19-Feb-2018 14:13:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021819.D				
Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		



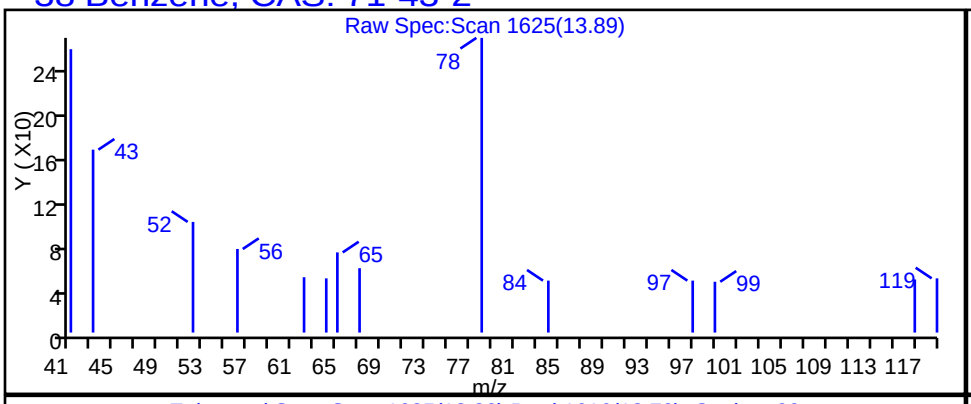
Report Date: 19-Feb-2018 14:13:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

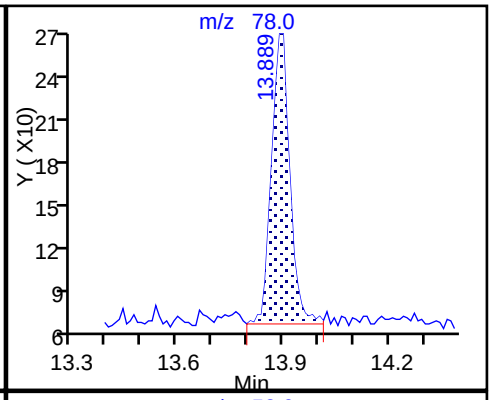
TestAmerica Sacramento

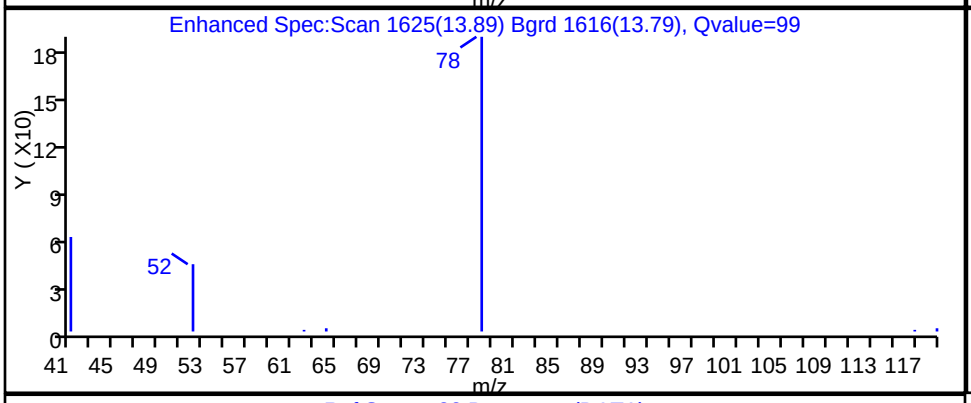
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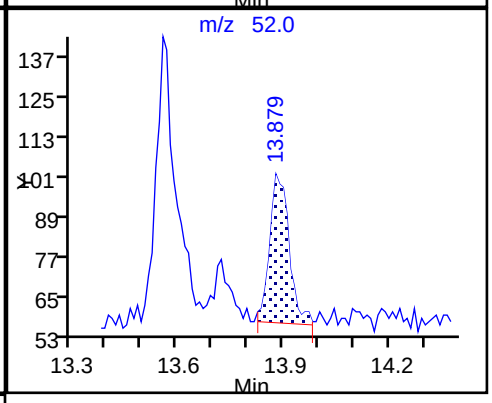
Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

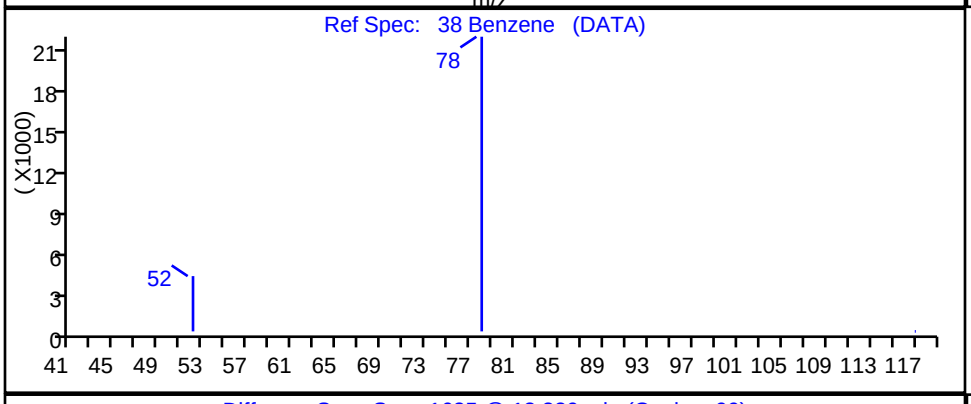
38 Benzene, CAS: 71-43-2

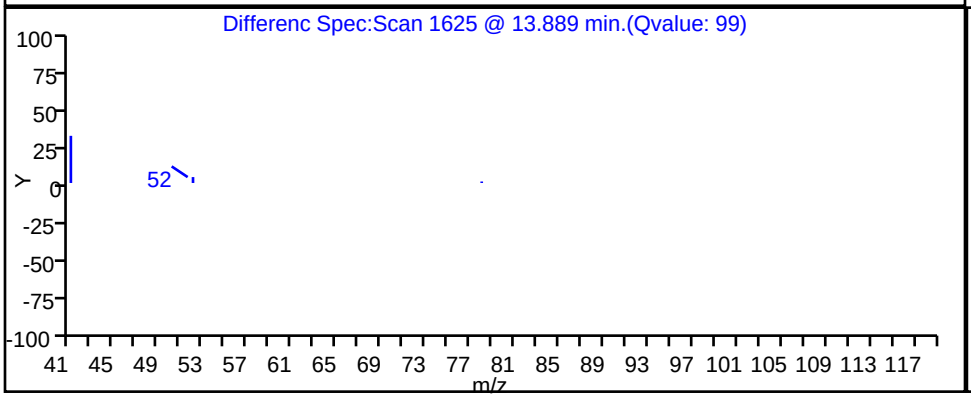


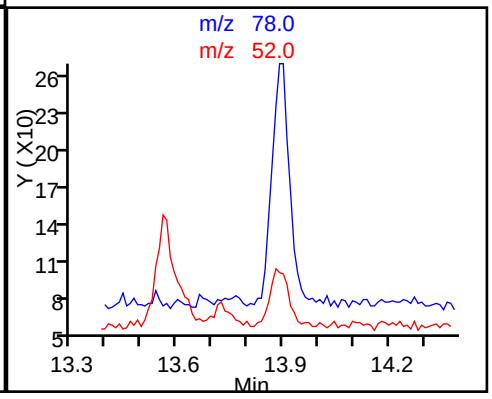












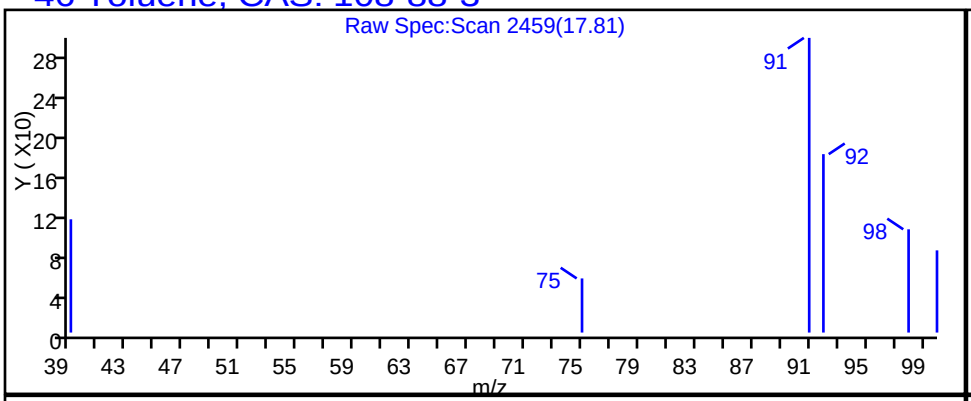
Report Date: 19-Feb-2018 14:13:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

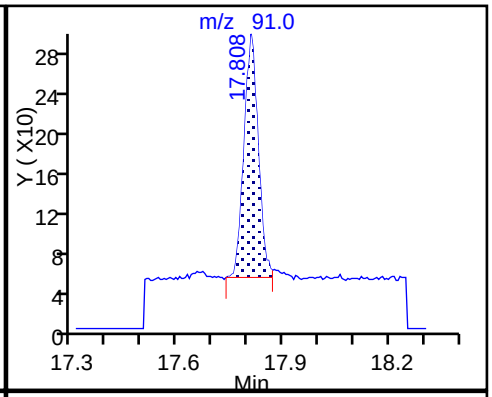
TestAmerica Sacramento

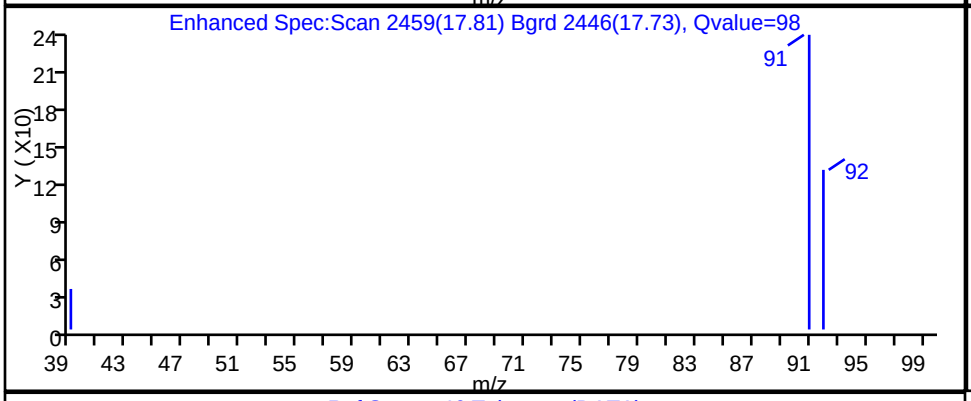
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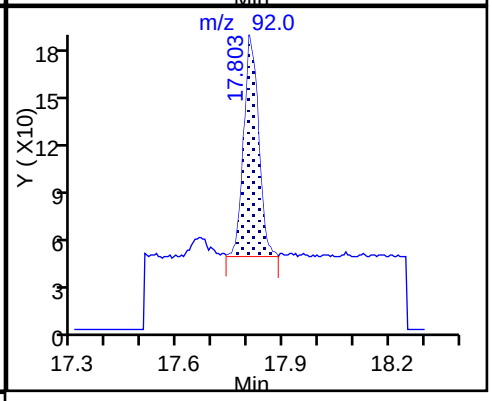
Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

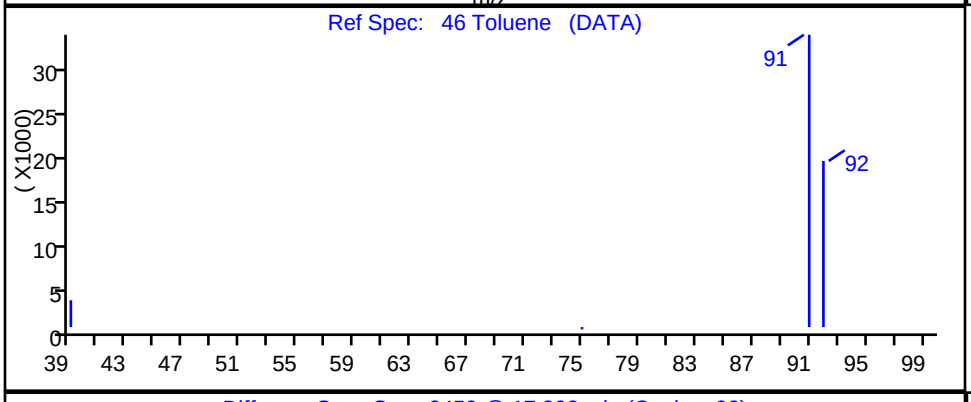
46 Toluene, CAS: 108-88-3

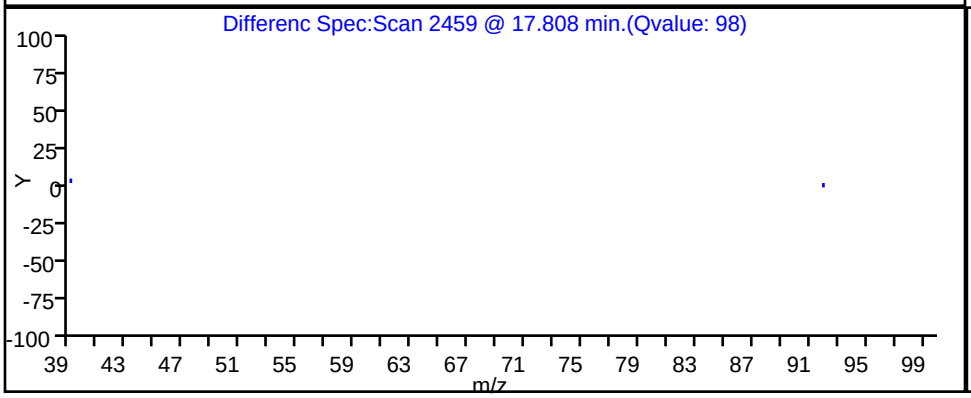


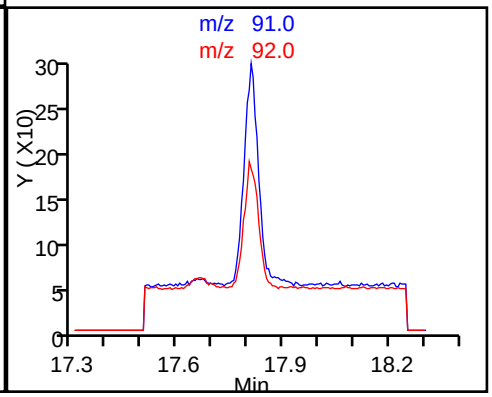












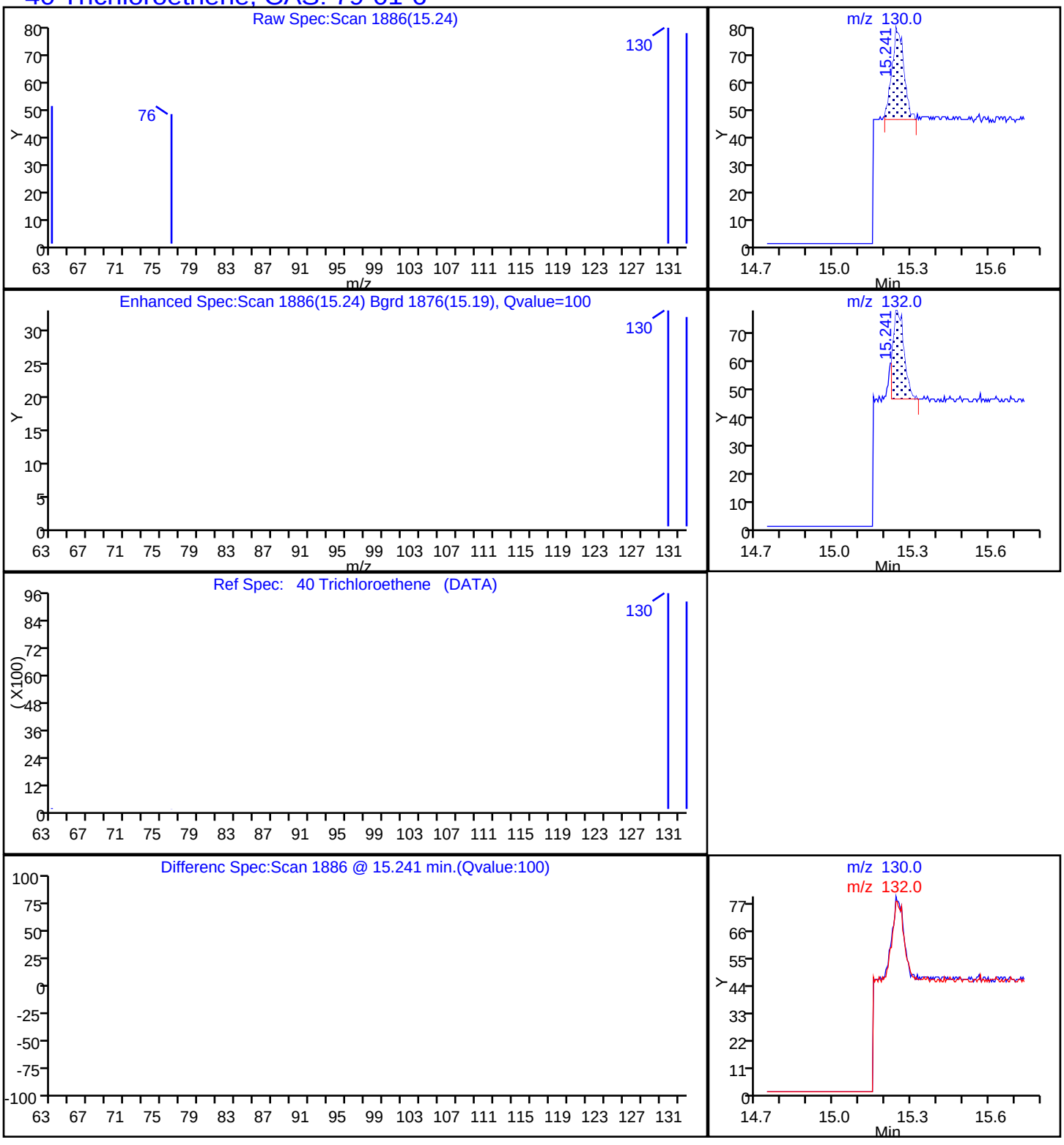
Report Date: 19-Feb-2018 14:13:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021819.D

Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

40 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

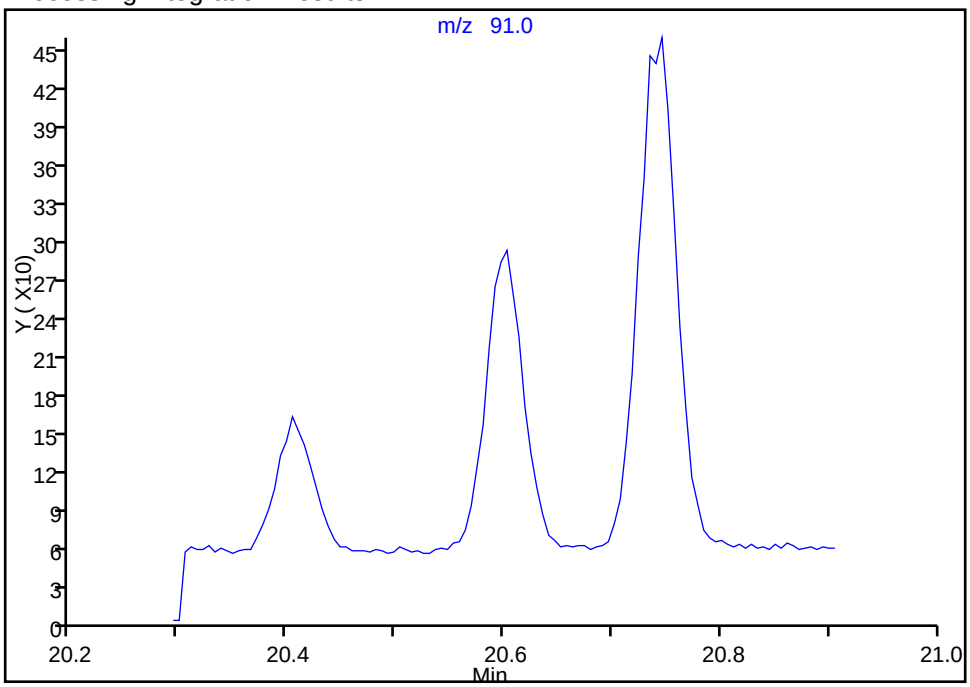
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Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

55 Ethylbenzene, CAS: 100-41-4

Signal: 1

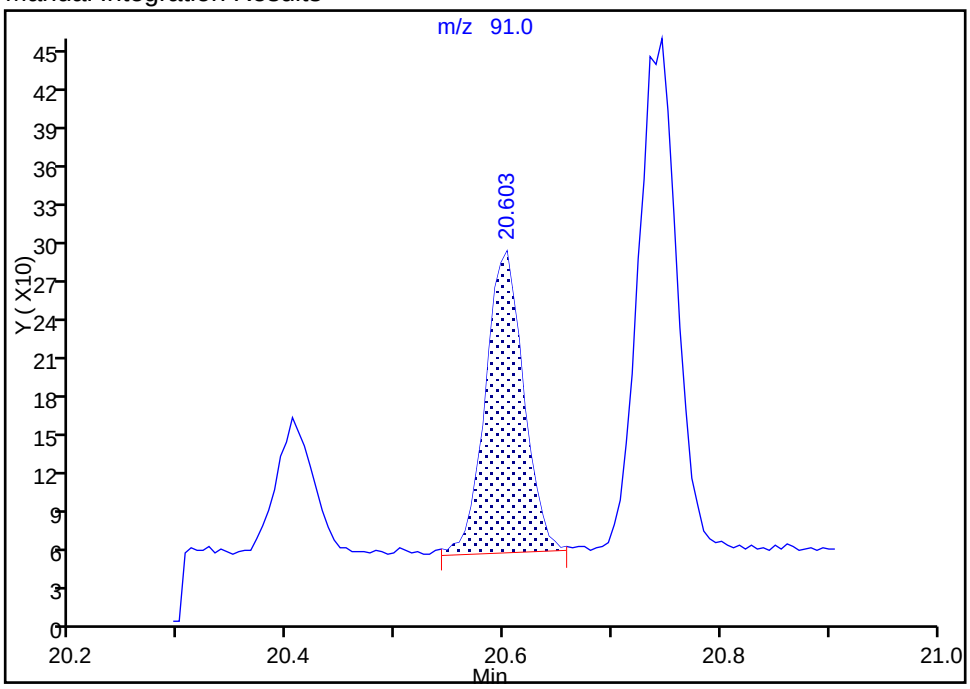
Not Detected
Expected RT: 20.60

Processing Integration Results



Manual Integration Results

RT: 20.60
Area: 571
Amount: 0.007777
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:12:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

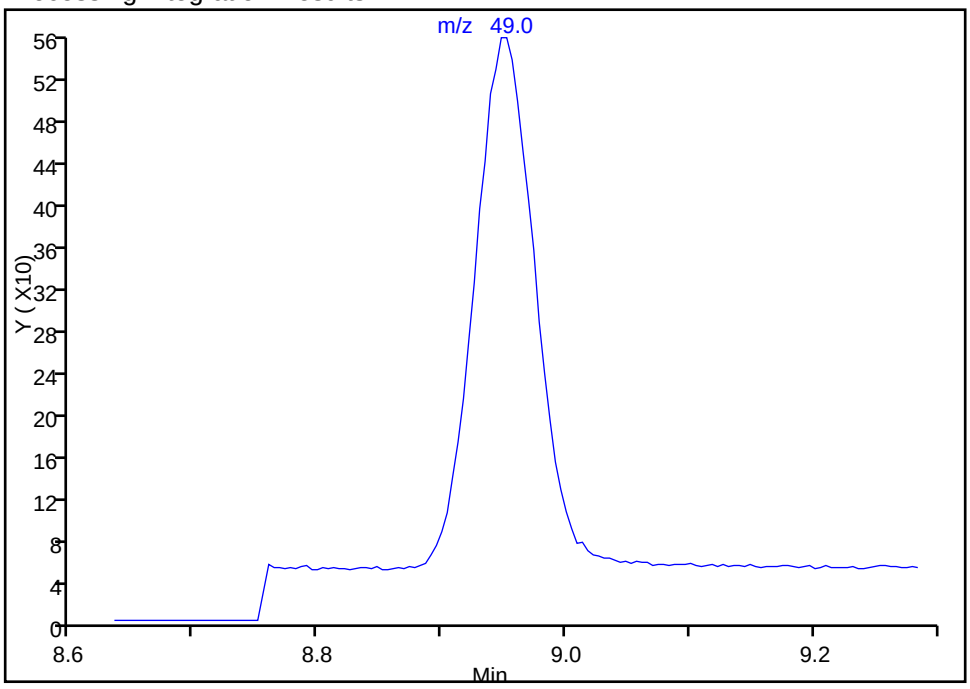
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Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

22 Methylene Chloride, CAS: 75-09-2

Signal: 1

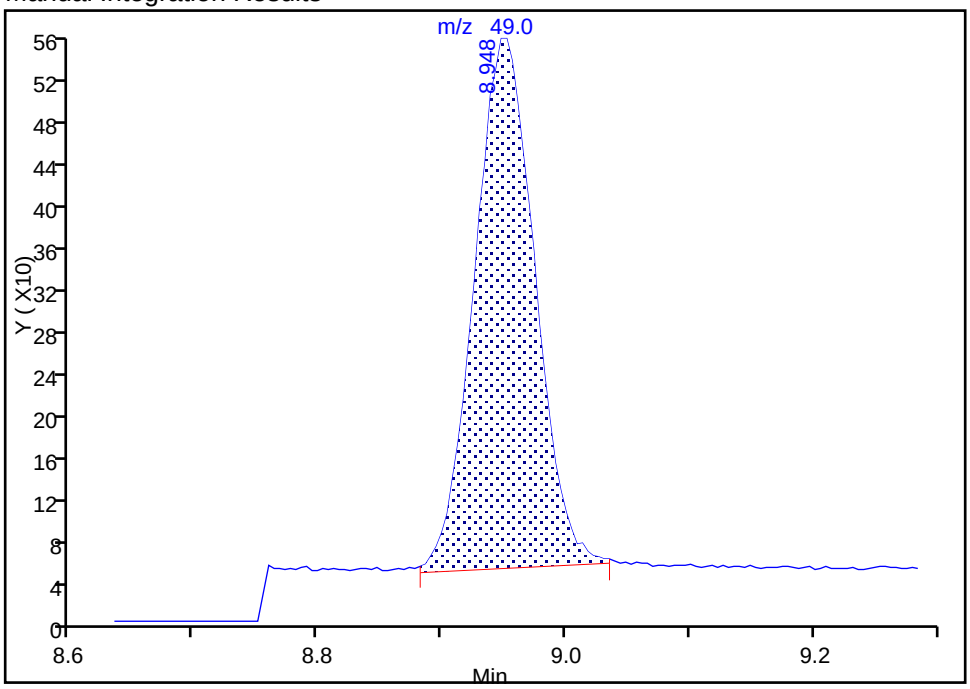
Not Detected
Expected RT: 8.94

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 1705
Amount: 0.078960
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:12:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

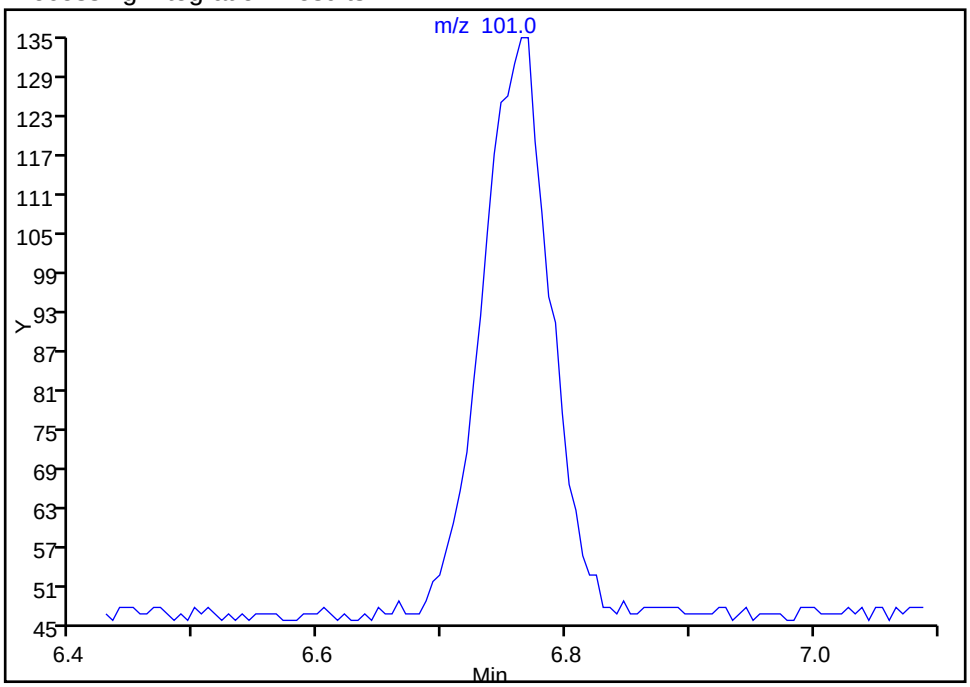
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Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

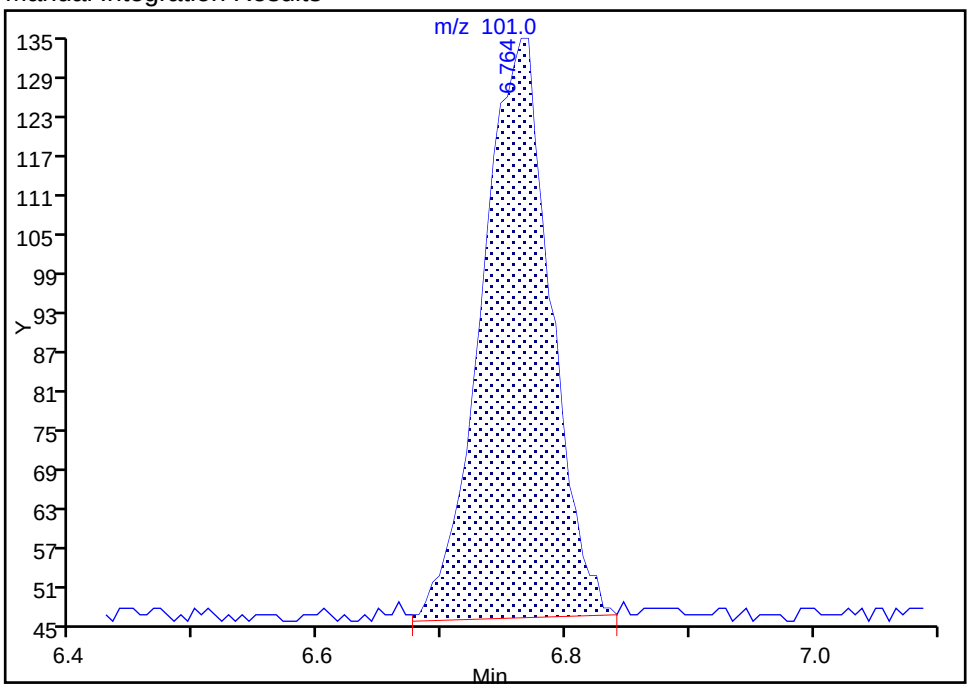
Not Detected
Expected RT: 6.74

Processing Integration Results



Manual Integration Results

RT: 6.76
Area: 347
Amount: 0.006958
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:11:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

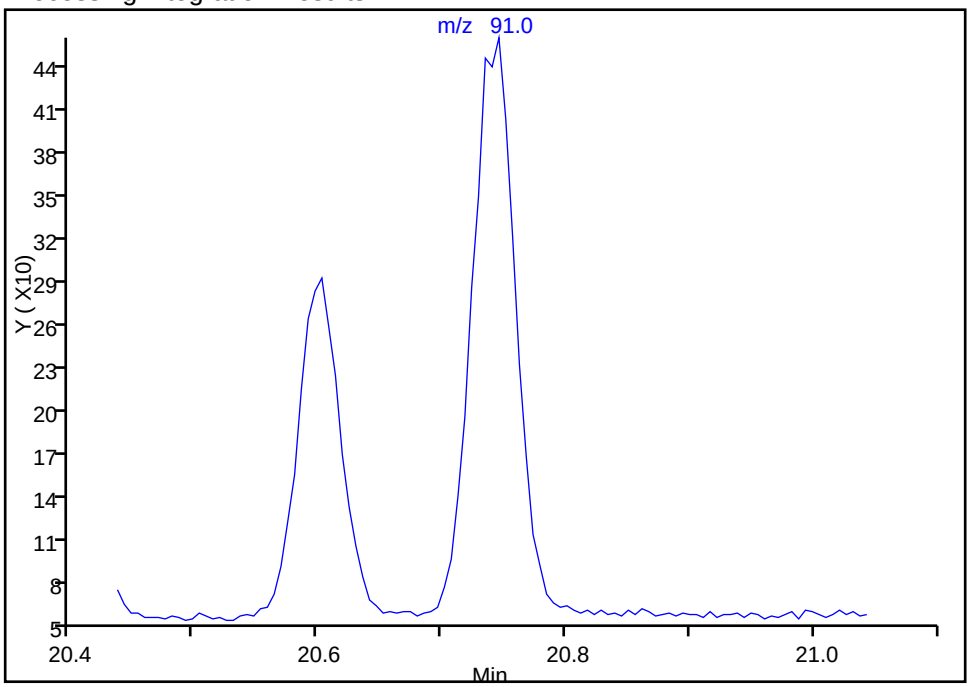
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Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

56 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

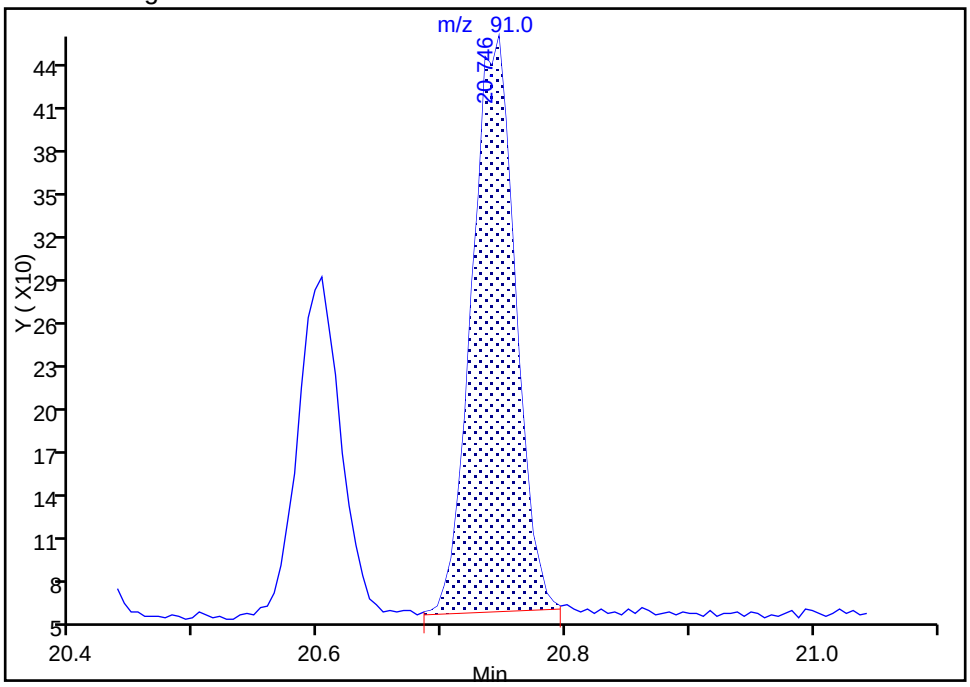
Not Detected
Expected RT: 20.74

Processing Integration Results



Manual Integration Results

RT: 20.75
Area: 966
Amount: 0.016811
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:12:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

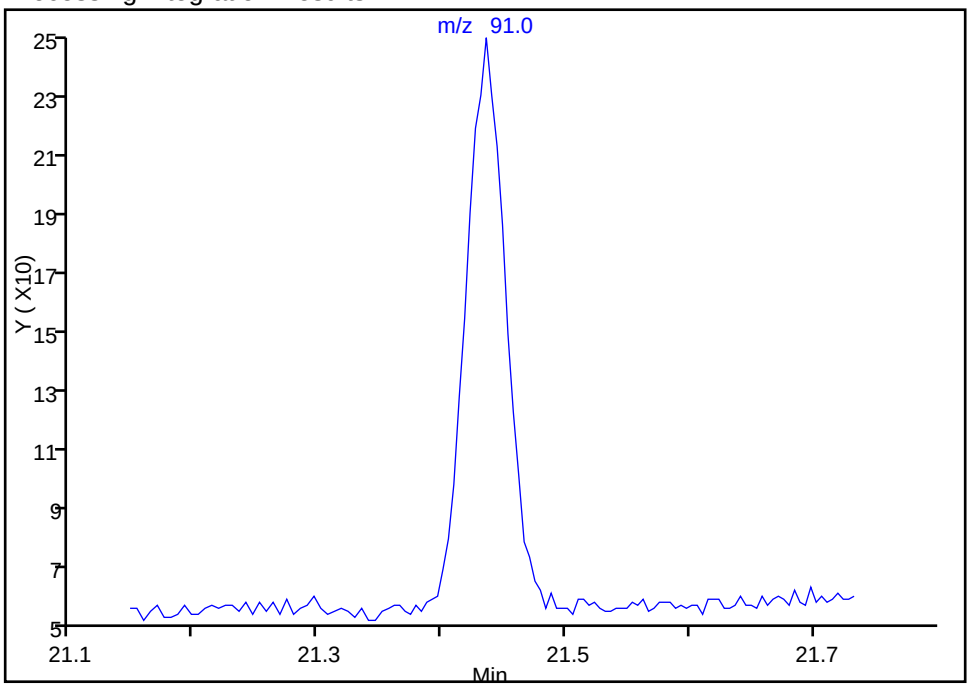
Data File:	\\ChromNA\Sacramento\ChromData\ATMS12\20180218-54232.b\MS12021819.D				
Injection Date:	19-Feb-2018 04:28:30	Instrument ID:	ATMS12		
Lims ID:	320-35833-A-12	Lab Sample ID:	320-35833-12		
Client ID:	34000016				
Operator ID:	SRS	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	TO15-SIMSIM	Limit Group:	MSA - TO15_SIM - ICAL		
Column:		Detector	MS SCAN		

57 o-Xylene, CAS: 95-47-6

Signal: 1

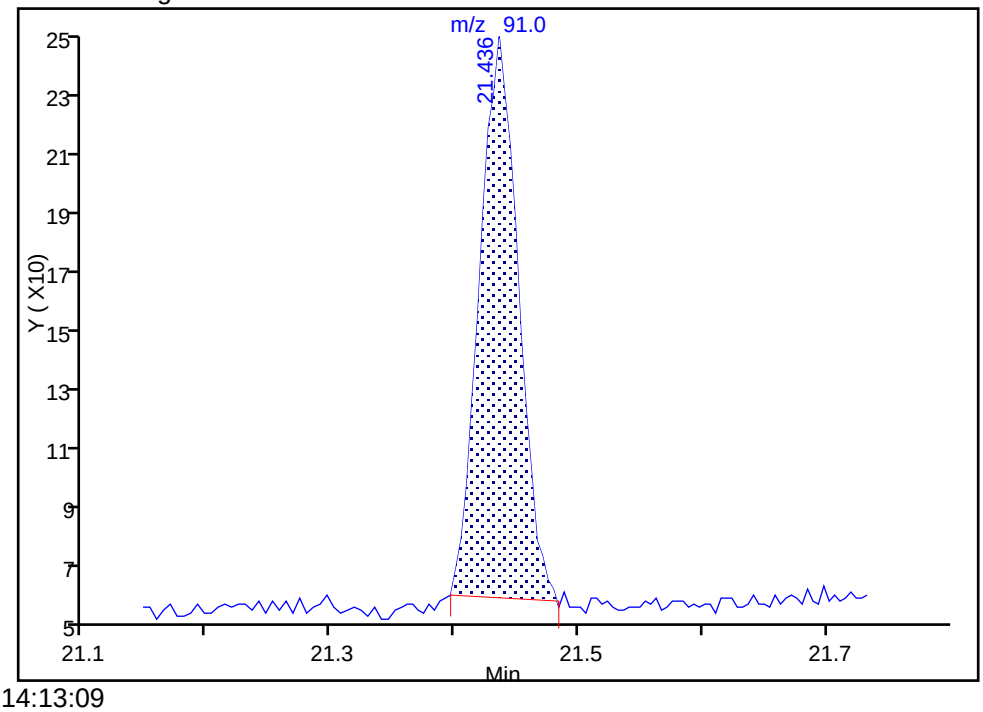
Not Detected
Expected RT: 21.44

Processing Integration Results



Manual Integration Results

RT: 21.44
Area: 403
Amount: 0.007365
Amount Units: ppb v/v



Reviewer: jamese, 19-Feb-2018 14:13:09
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35976-1

SDG No.:

Client Sample ID: 34002099 | Lab Sample ID: 320-35976-1

Matrix: Air | Lab File ID: MS6021408.D

Analysis Method: TO-15 | Date Collected: 02/12/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2018 21:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208389 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-35976-1

SDG No.:

Client Sample ID: 34002099 | Lab Sample ID: 320-35976-1

Matrix: Air | Lab File ID: MS6021408.D

Analysis Method: TO-15 | Date Collected: 02/12/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2018 21:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208389 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Client Sample ID: 34002099 Lab Sample ID: 320-35976-1

Matrix: Air Lab File ID: MS6021408.D

Analysis Method: TO-15 Date Collected: 02/12/2018 00:00

Sample wt/vol: 250(mL) Date Analyzed: 02/14/2018 21:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208389 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054
1330-20-7	Xylenes, Total	ND		1.2	0.074

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021408.D				
Lims ID:	320-35976-A-1				
Client ID:	34002099				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 21:07:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-35976-A-1				
Misc. Info.:	500mL				
Operator ID:	srs	Instrument ID:	ATMS6		
Method:	\\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\TO15_ATMS6.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	16-Feb-2018 14:27:04	Calib Date:	14-Feb-2018 16:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021403.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK005				
First Level Reviewer: vanommens		Date:	16-Feb-2018 14:08:29		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	13.295	13.283	0.012	97	51337	4.00	
* 2 1,4-Difluorobenzene	114	15.425	15.418	0.007	95	199432	4.00	
* 3 Chlorobenzene-d5 (IS)	117	22.153	22.147	0.006	87	176753	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	14.494	14.482	0.012	33	65164	4.09	
$ 5 Toluene-d8 (Surr)	100	18.874	18.868	0.006	99	131134	3.97	
$ 6 4-Bromofluorobenzene (Surr	95	24.714	24.708	0.006	94	96643	3.39	
11 Propene	41	4.638	4.620	0.018	74	435	0.0340	

Reagents:

VAMSIS20_00111 Amount Added: 50.00 Units: mL Run Reagent

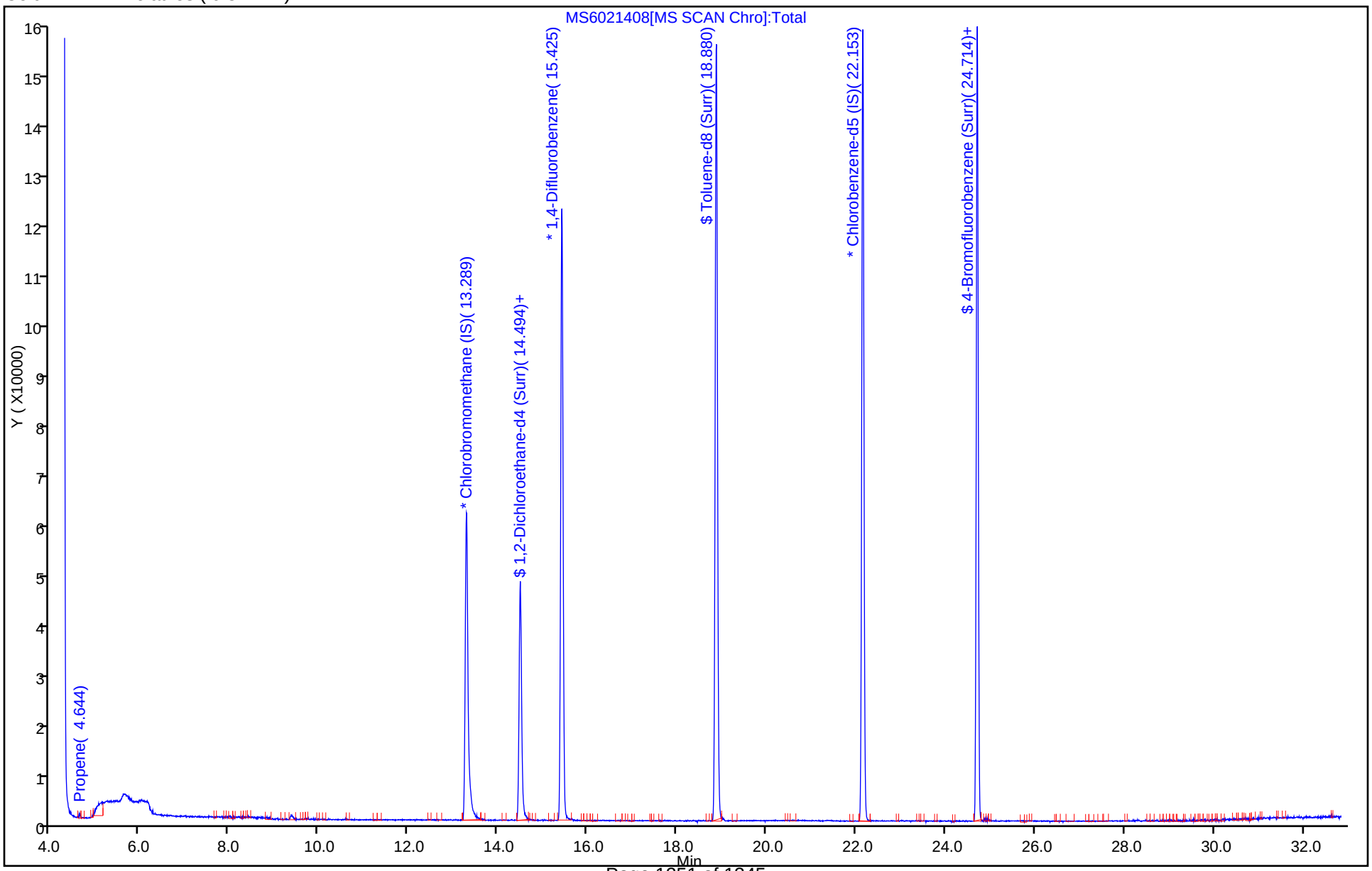
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021408.D

Injection Date:	14-Feb-2018 21:07:30	Instrument ID:	ATMS6	Operator ID:	srs
Lims ID:	320-35976-A-1	Lab Sample ID:	320-35976-1	Worklist Smp#:	8
Client ID:	34002099				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_ATMS6	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



User Disabled Compound Report

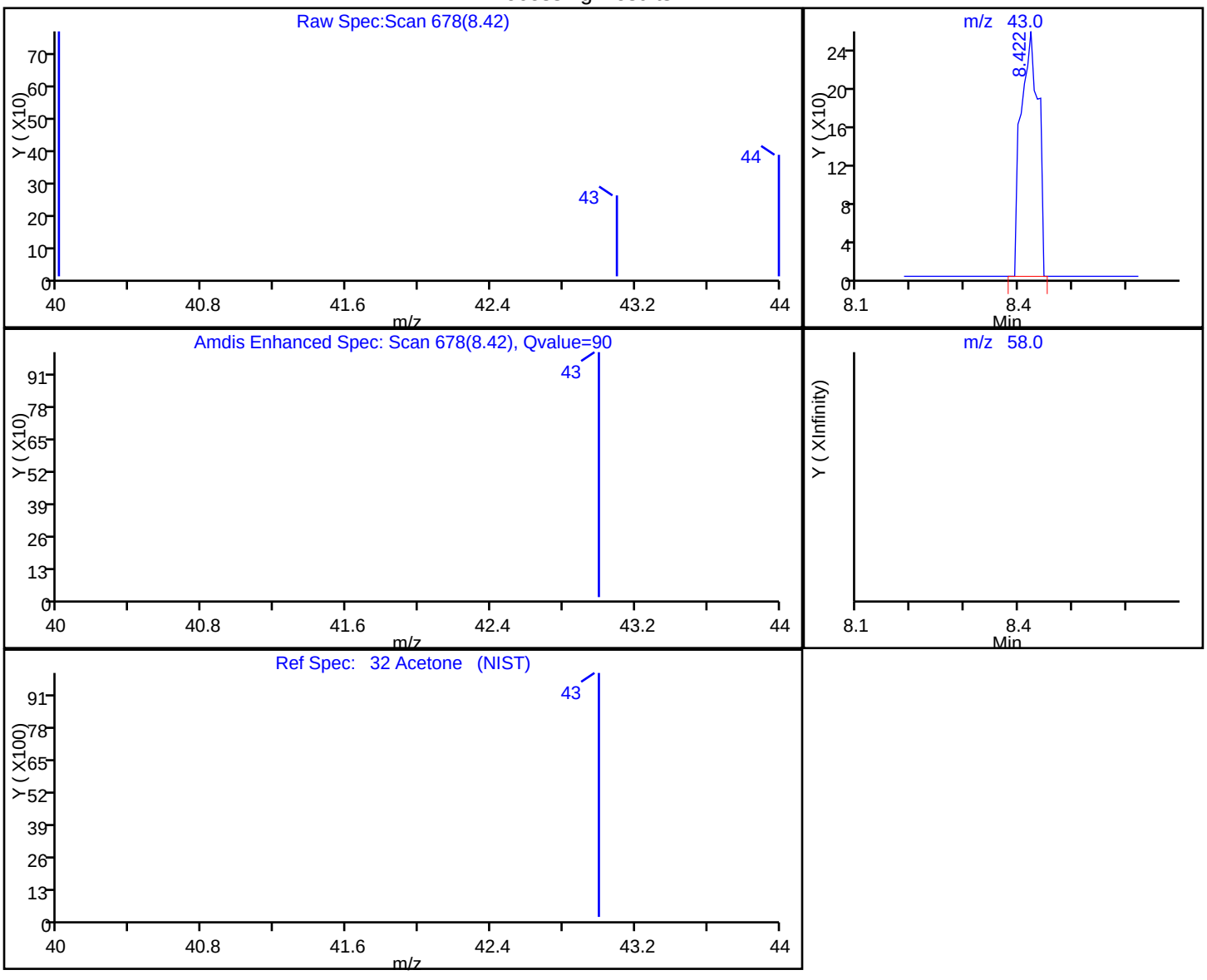
TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021408.D

Injection Date:	14-Feb-2018 21:07:30	Instrument ID:	ATMS6		
Lims ID:	320-35976-A-1	Lab Sample ID:	320-35976-1		
Client ID:	34002099				
Operator ID:	srs	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS6	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

32 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
8.42	43.00	567	0.025252
8.40	58.00	0	

Reviewer: vanommens, 16-Feb-2018 14:08:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

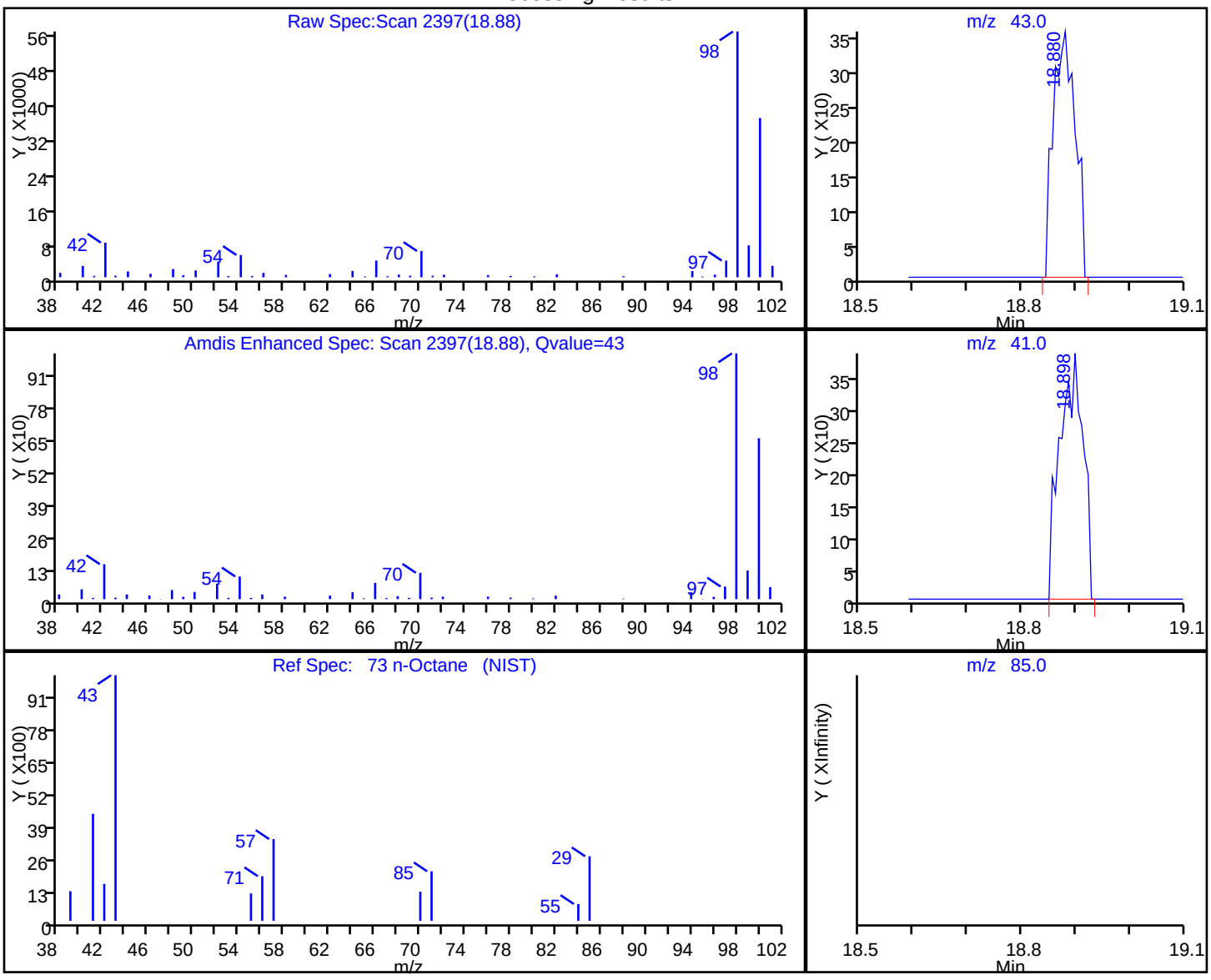
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS6\20180214-54062.b\MS6021408.D				
Injection Date:	14-Feb-2018 21:07:30	Instrument ID:	ATMS6		
Lims ID:	320-35976-A-1	Lab Sample ID:	320-35976-1		
Client ID:	34002099				
Operator ID:	srs	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS6	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

73 n-Octane, CAS: 111-65-9

Processing Results



RT	Mass	Response	Amount
18.88	43.00	1016	0.028975
18.90	41.00	1166	
18.84	85.00	0	

Reviewer: vanommens, 16-Feb-2018 14:08:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-36037-1

SDG No.:

Client Sample ID: 8234 | Lab Sample ID: 320-36037-1

Matrix: Air | Lab File ID: MS9021707.D

Analysis Method: TO-15 | Date Collected: 02/13/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/17/2018 16:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208885 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.54	J	5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	0.090	J	0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-36037-1

SDG No.:

Client Sample ID: 8234 | Lab Sample ID: 320-36037-1

Matrix: Air | Lab File ID: MS9021707.D

Analysis Method: TO-15 | Date Collected: 02/13/2018 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 02/17/2018 16:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

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

Analysis Batch No.: 208885 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Client Sample ID: 8234 Lab Sample ID: 320-36037-1

Matrix: Air Lab File ID: MS9021707.D

Analysis Method: TO-15 Date Collected: 02/13/2018 00:00

Sample wt/vol: 250(mL) Date Analyzed: 02/17/2018 16:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 208885 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	0.22	J	0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	0.29	J	0.80	0.10
95-47-6	o-Xylene	0.061	J	0.40	0.054
1330-20-7	Xylenes, Total	0.35	J	1.2	0.074

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D
Lims ID: 320-36037-A-1
Client ID: 8234
Sample Type: Client
Inject. Date: 17-Feb-2018 16:01:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-36037-A-1
Misc. Info.: 500
Operator ID: RG Instrument ID: ATMS9

Method: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\TO15_ATMS9N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 19-Feb-2018 13:54:01 Calib Date: 09-Feb-2018 00:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20180208-53859.b\MS9020812.D

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: phanthasena Date: 19-Feb-2018 13:54:01

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	130	12.324	12.312	0.012	97	67455	4.00	
*	2 1,4-Difluorobenzene	114	14.411	14.405	0.006	100	278921	4.00	
*	3 Chlorobenzene-d5 (IS)	117	20.330	20.330	0.000	98	199692	4.00	
$	4 1,2-Dichloroethane-d4 (Sur	65	13.486	13.486	0.000	98	107235	3.96	
$	5 Toluene-d8 (Surr)	100	17.568	17.568	0.000	98	147459	4.16	
$	6 4-Bromofluorobenzene (Surr	174	22.259	22.259	0.000	99	104777	3.99	
	14 Propene	41	4.282	4.245	0.037	51	753	0.0492	
	31 Acetone	43	7.695	7.634	0.061	97	15304	0.5430	
	47 Methylene Chloride	49	8.905	8.899	0.006	80	1022	0.0431	
	48 Carbon disulfide	76	8.948	8.942	0.006	97	3705	0.0900	
	81 4-Methyl-2-pentanone (MIBK	43	16.741	16.686	0.055	89	1289	0.0215	
	85 Toluene	91	17.714	17.727	-0.013	93	1164	0.0145	
	97 Ethylbenzene	91	20.519	20.525	-0.006	97	4762	0.0418	
	98 m-Xylene & p-Xylene	91	20.665	20.665	0.000	0	25922	0.2878	
	101 o-Xylene	91	21.365	21.365	0.000	98	5571	0.0612	
	107 N-Propylbenzene	91	22.545	22.539	0.006	98	3757	0.0237	
	110 4-Ethyltoluene	120	22.691	22.691	-0.012	98	3409	0.0878	M
	111 1,3,5-Trimethylbenzene	120	22.770	22.770	0.000	93	5572	0.1020	
	115 1,2,4-Trimethylbenzene	120	23.324	23.323	0.001	98	11639	0.2182	
	116 sec-Butylbenzene	105	23.579	23.579	0.000	89	1281	0.008082	
	121 4-Isopropyltoluene	119	23.762	23.761	0.001	89	1004	0.007304	
	117 1,3-Dichlorobenzene	146	23.865	23.859	0.006	86	540	0.007512	
	120 1,4-Dichlorobenzene	146	23.987	23.987	0.000	90	753	0.0104	
	123 n-Butylbenzene	92	24.303	24.297	0.006	65	1094	0.0146	
	122 1,2-Dichlorobenzene	146	24.473	24.473	0.000	1	490	0.007077	
	126 1,2,4-Trichlorobenzene	180	26.700	26.700	0.000	86	1505	0.0533	
	127 Naphthalene	128	27.065	27.071	-0.006	98	25564	0.1396	
S	155 Xylenes, Total	91				0		0.3490	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VAMSIS20_00109 Amount Added: 50.00 Units: mL Run Reagent

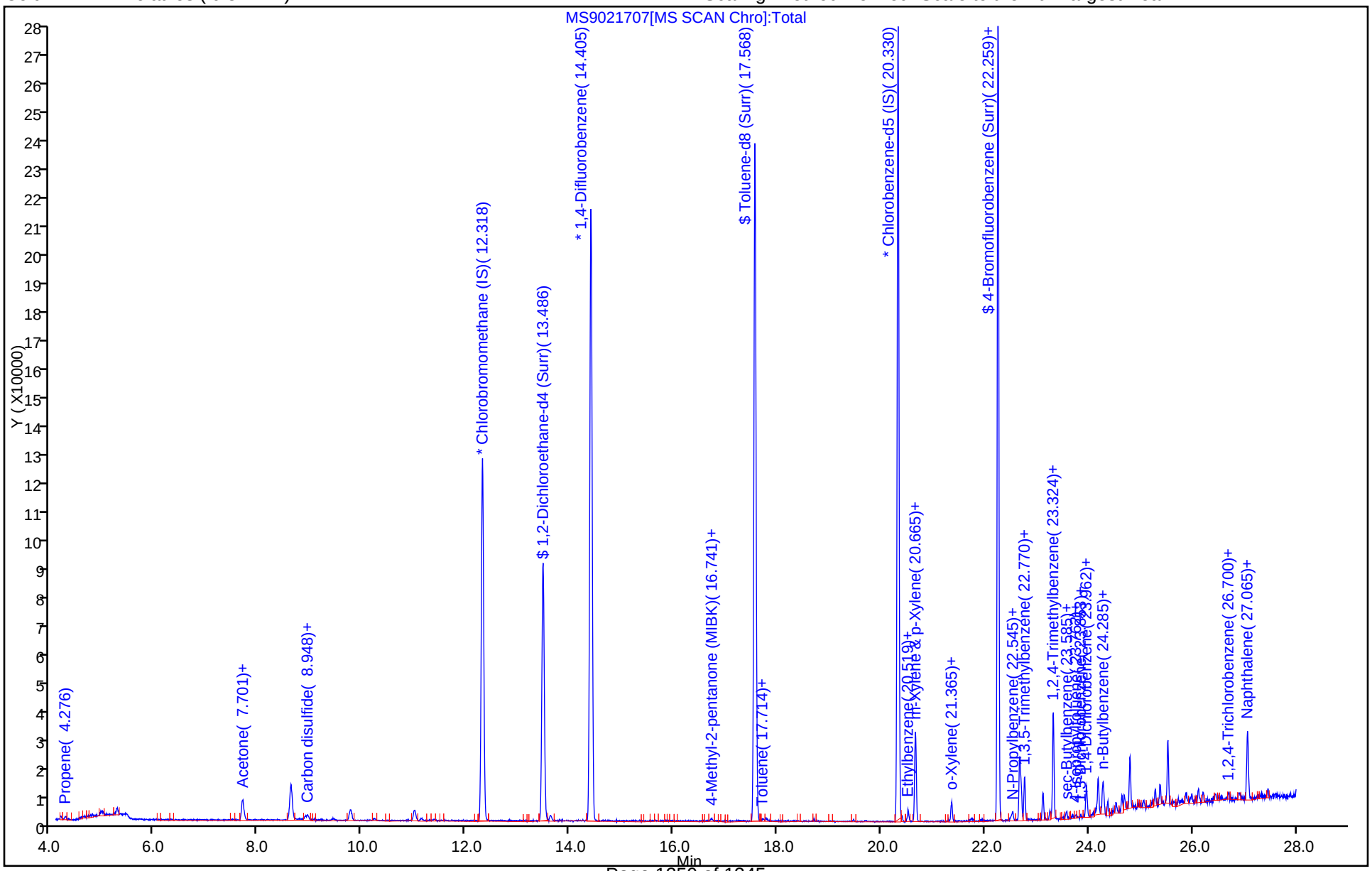
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D

Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9	Operator ID:	RG
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1	Worklist Smp#:	7
Client ID:	8234				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



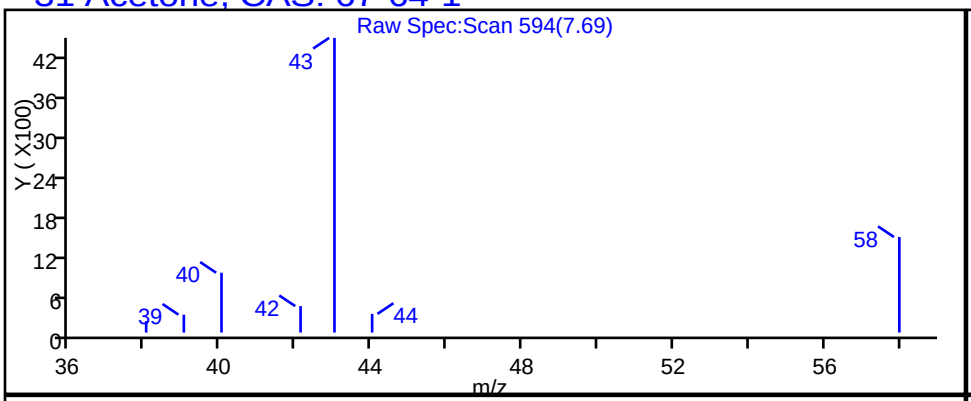
Report Date: 19-Feb-2018 13:54:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

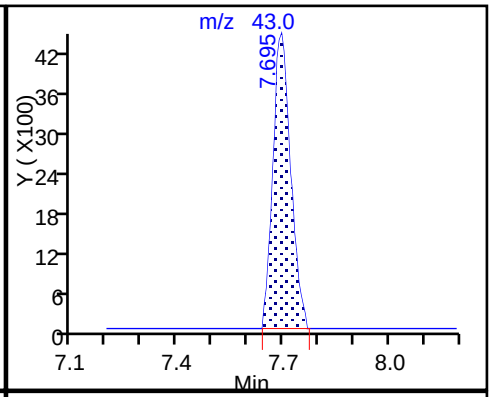
TestAmerica Sacramento

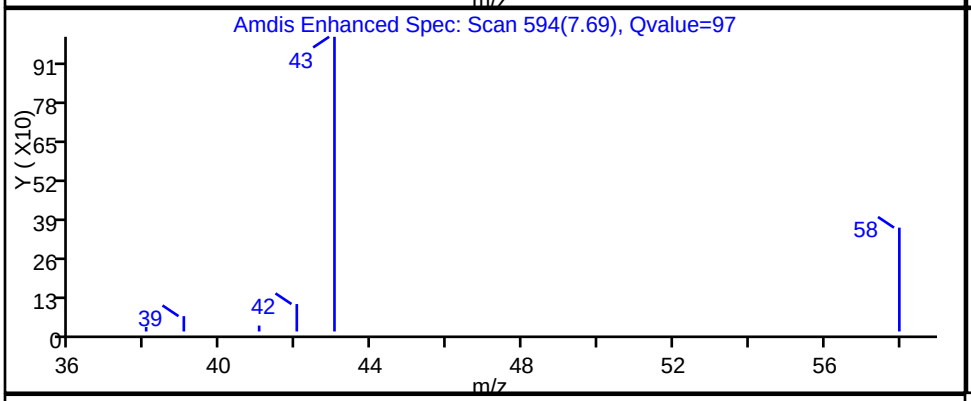
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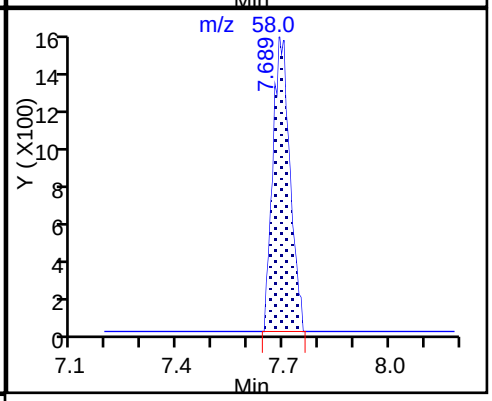
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Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1
Client ID:	8234		
Operator ID:	RG	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

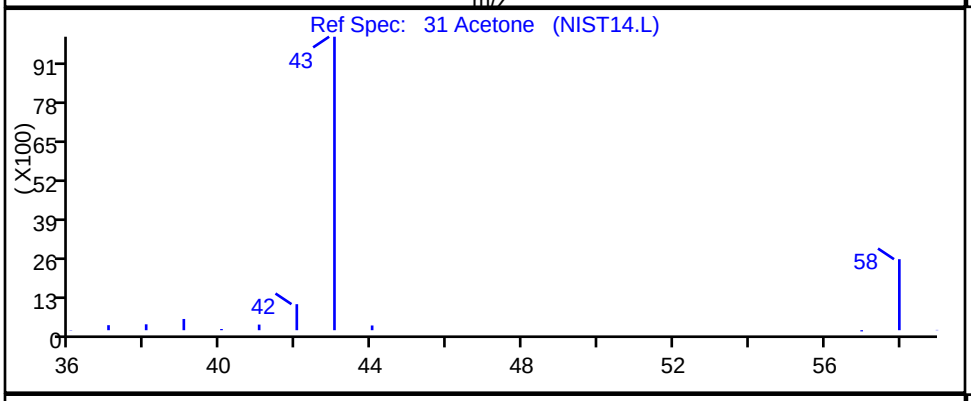
31 Acetone, CAS: 67-64-1

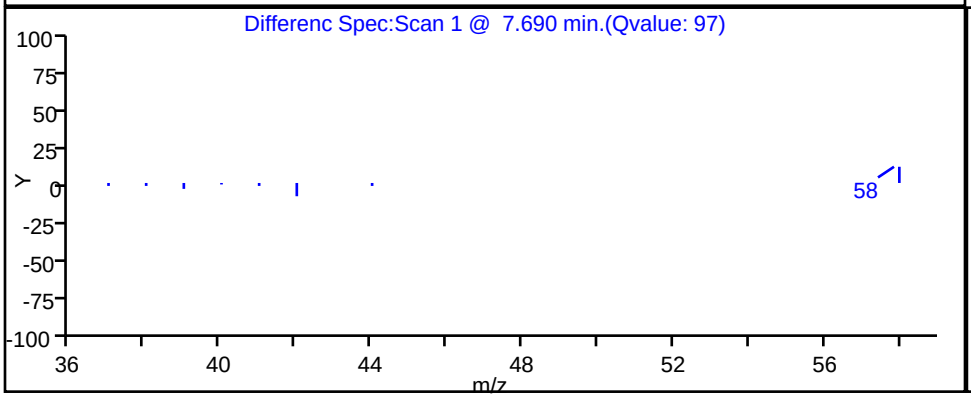


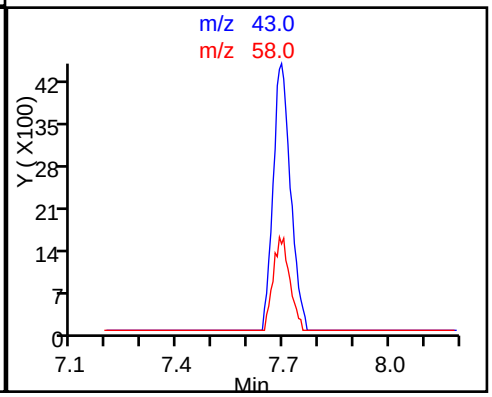












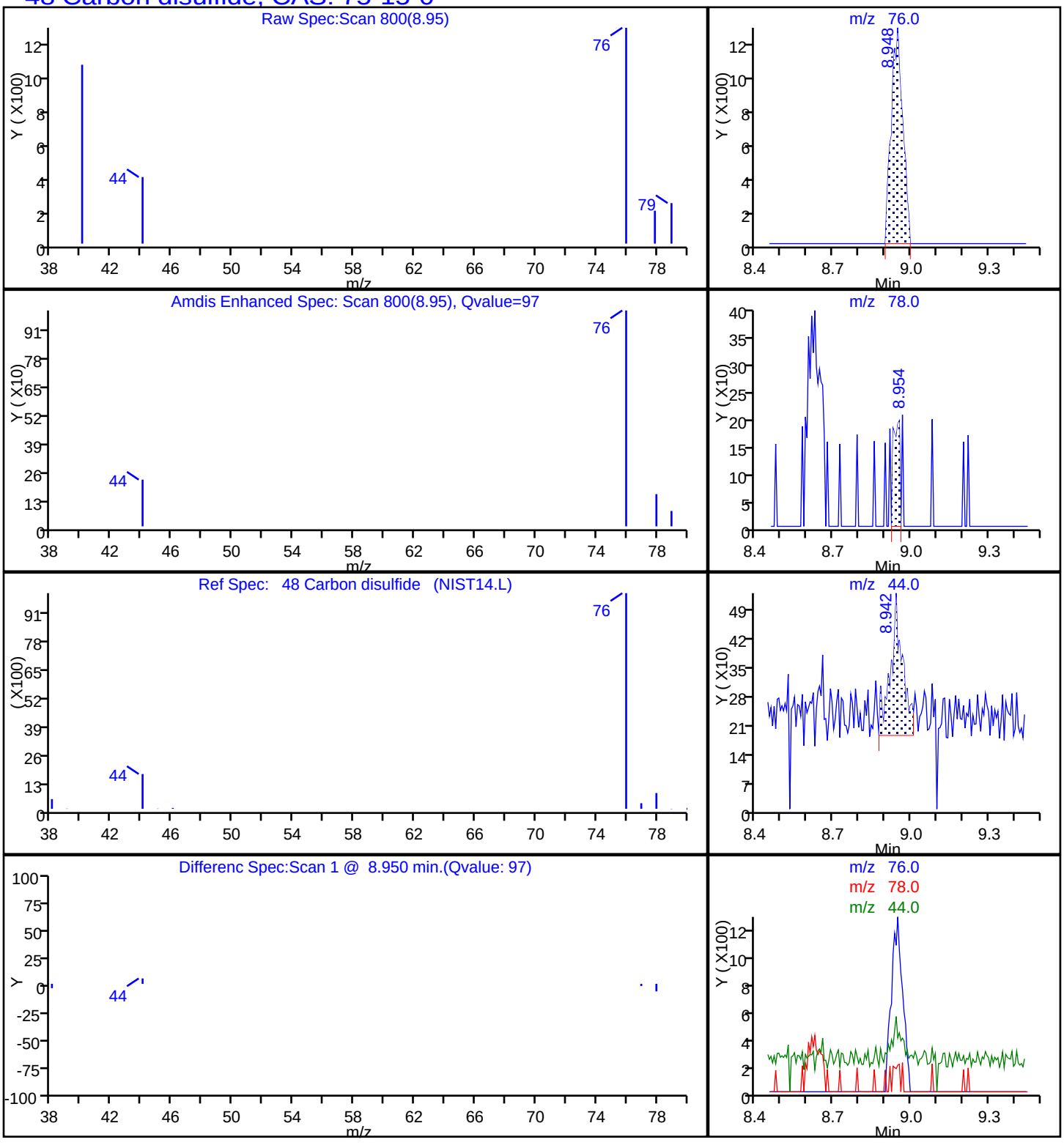
Report Date: 19-Feb-2018 13:54:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D

Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1
Client ID:	8234		
Operator ID:	RG	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

48 Carbon disulfide, CAS: 75-15-0



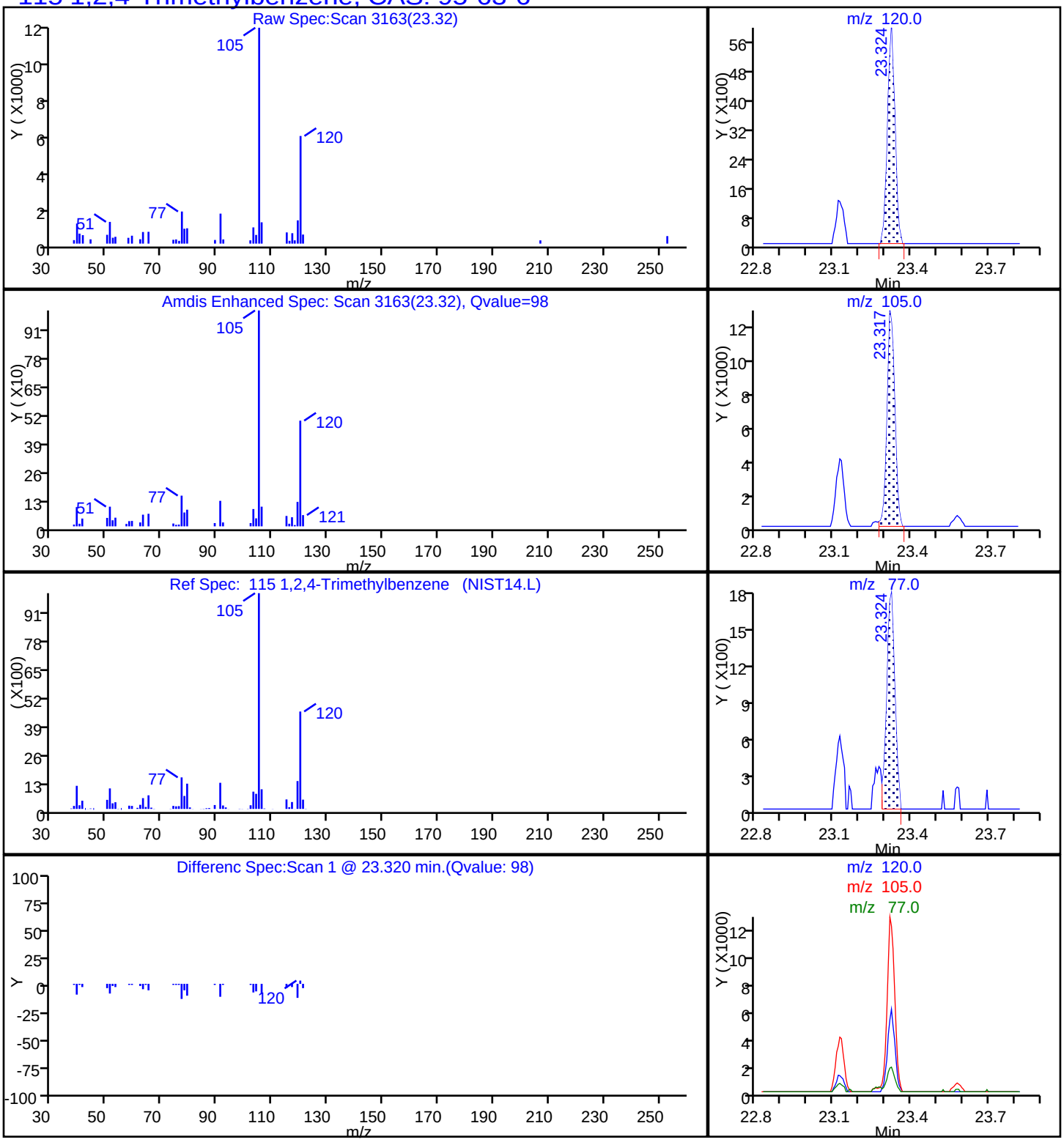
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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D

Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1
Client ID:	8234		
Operator ID:	RG	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

115 1,2,4-Trimethylbenzene, CAS: 95-63-6



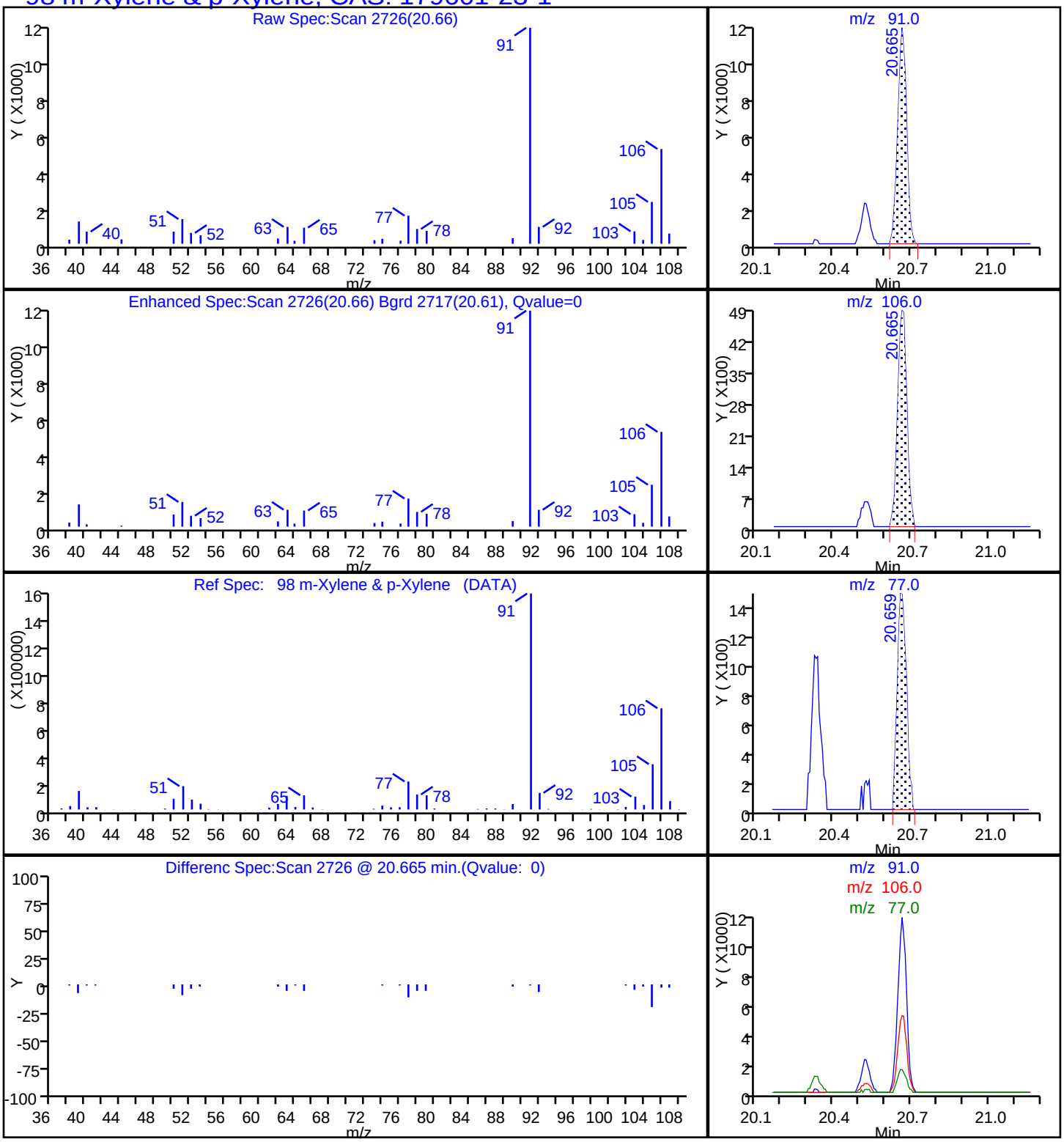
Report Date: 19-Feb-2018 13:54:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D

Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

98 m-Xylene & p-Xylene, CAS: 179601-23-1



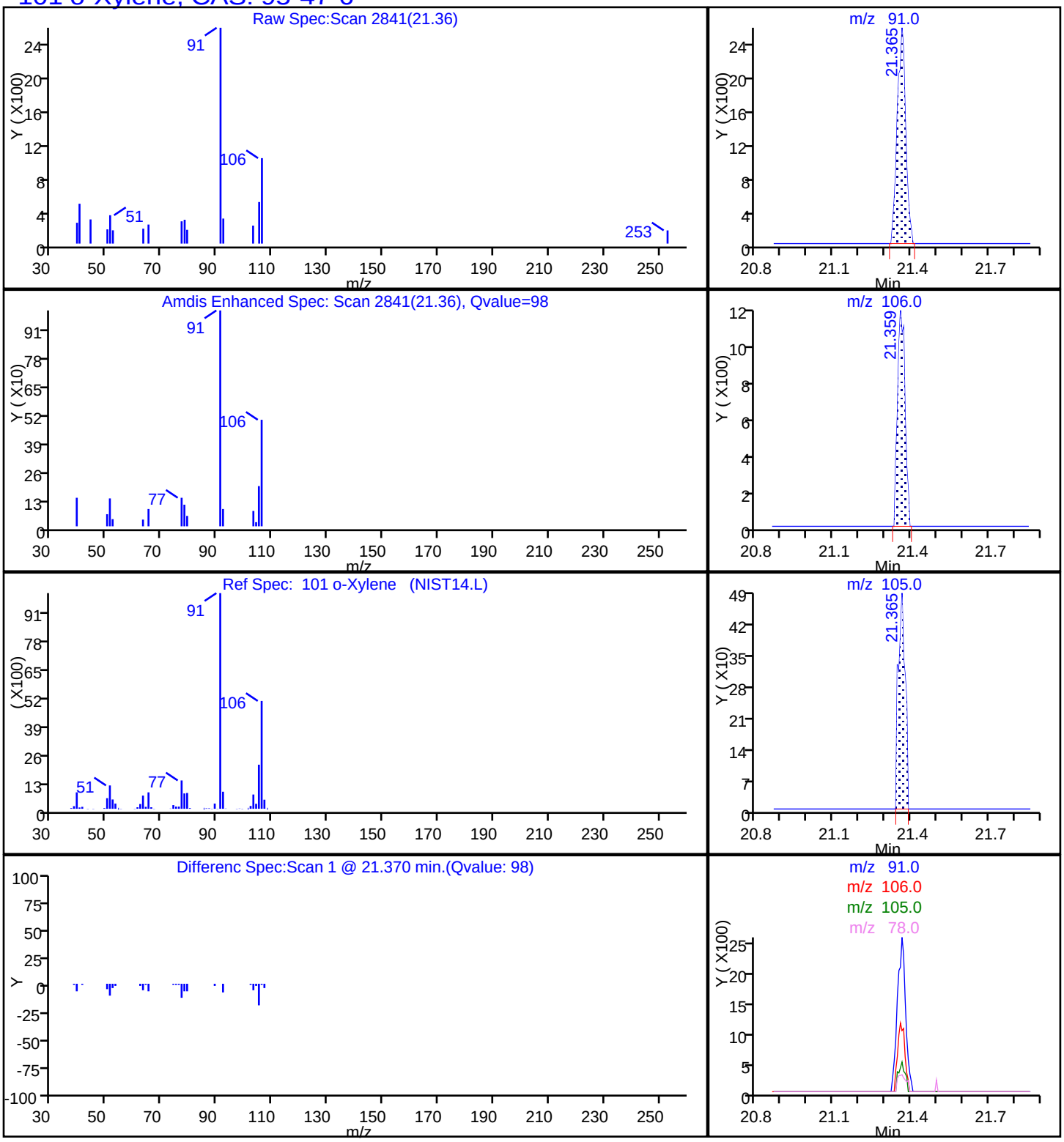
Report Date: 19-Feb-2018 13:54:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D

Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1
Client ID:	8234		
Operator ID:	RG	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN

101 o-Xylene, CAS: 95-47-6



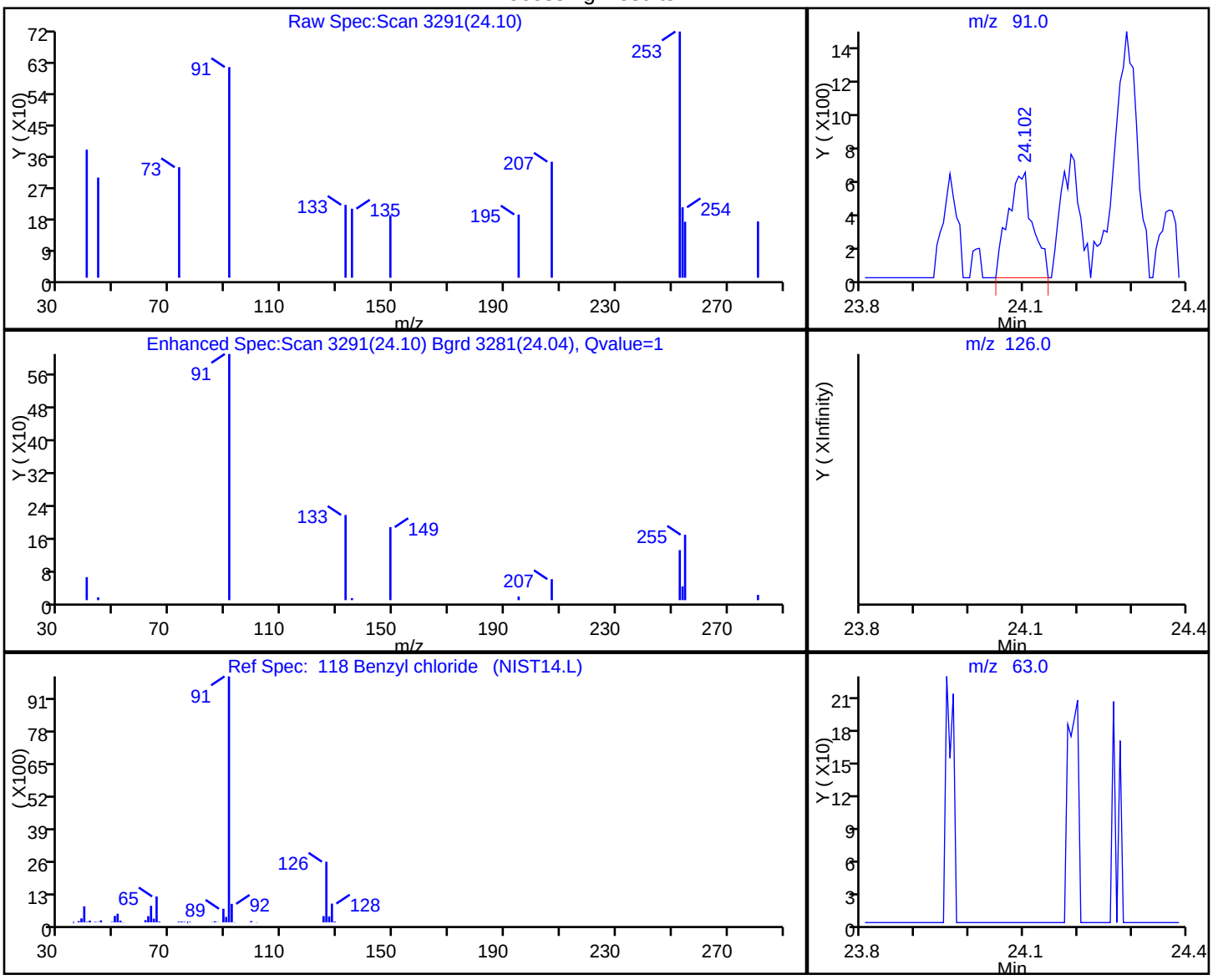
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D				
Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

118 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
24.10	91.00	1939	0.014299
24.10	126.00	0	
24.10	63.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:54:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

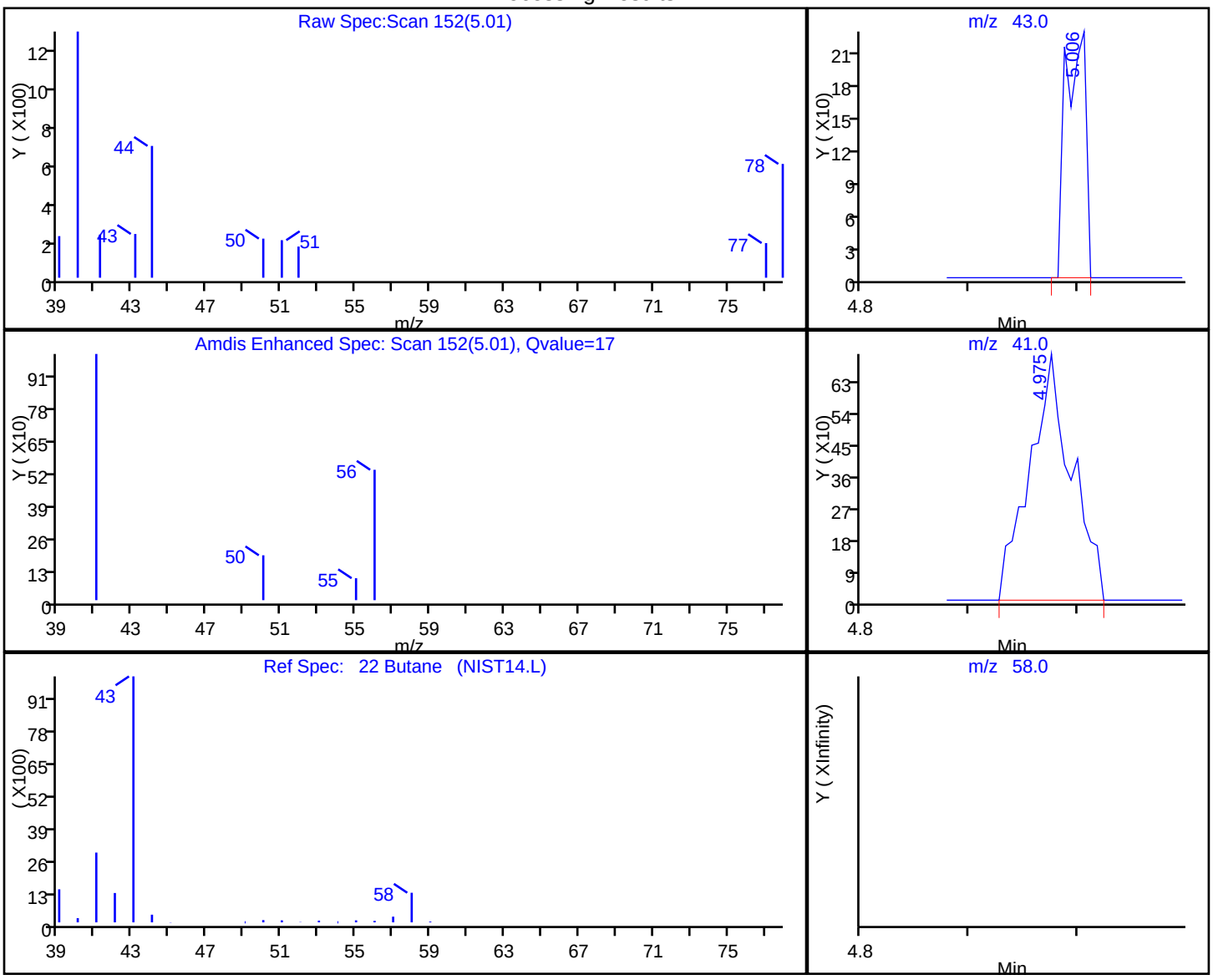
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D				
Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

22 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
5.01	43.00	291	0.008662
4.98	41.00	1905	
4.99	58.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:54:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

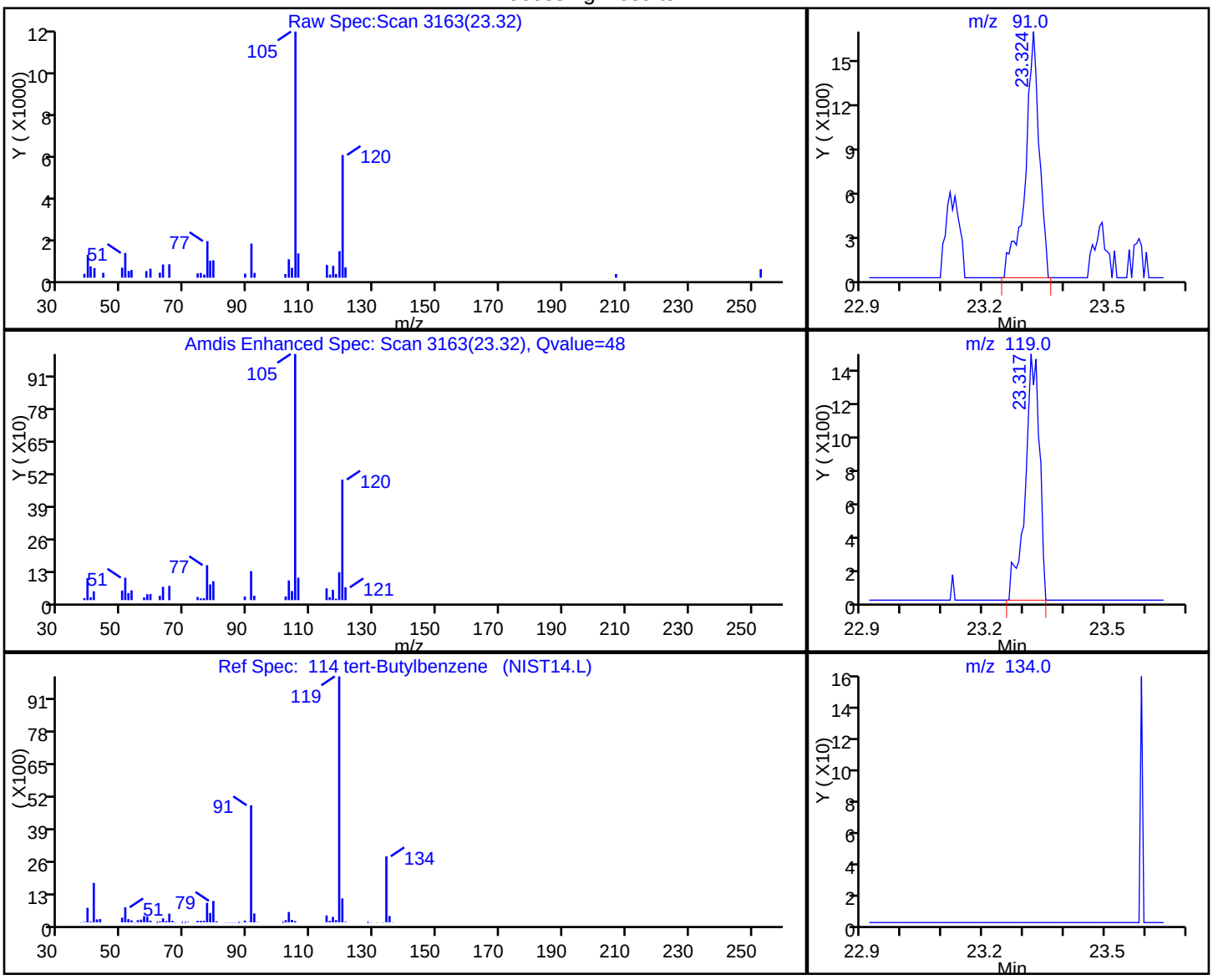
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D				
Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

114 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
23.32	91.00	3962	0.050245
23.32	119.00	3570	
23.28	134.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:54:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

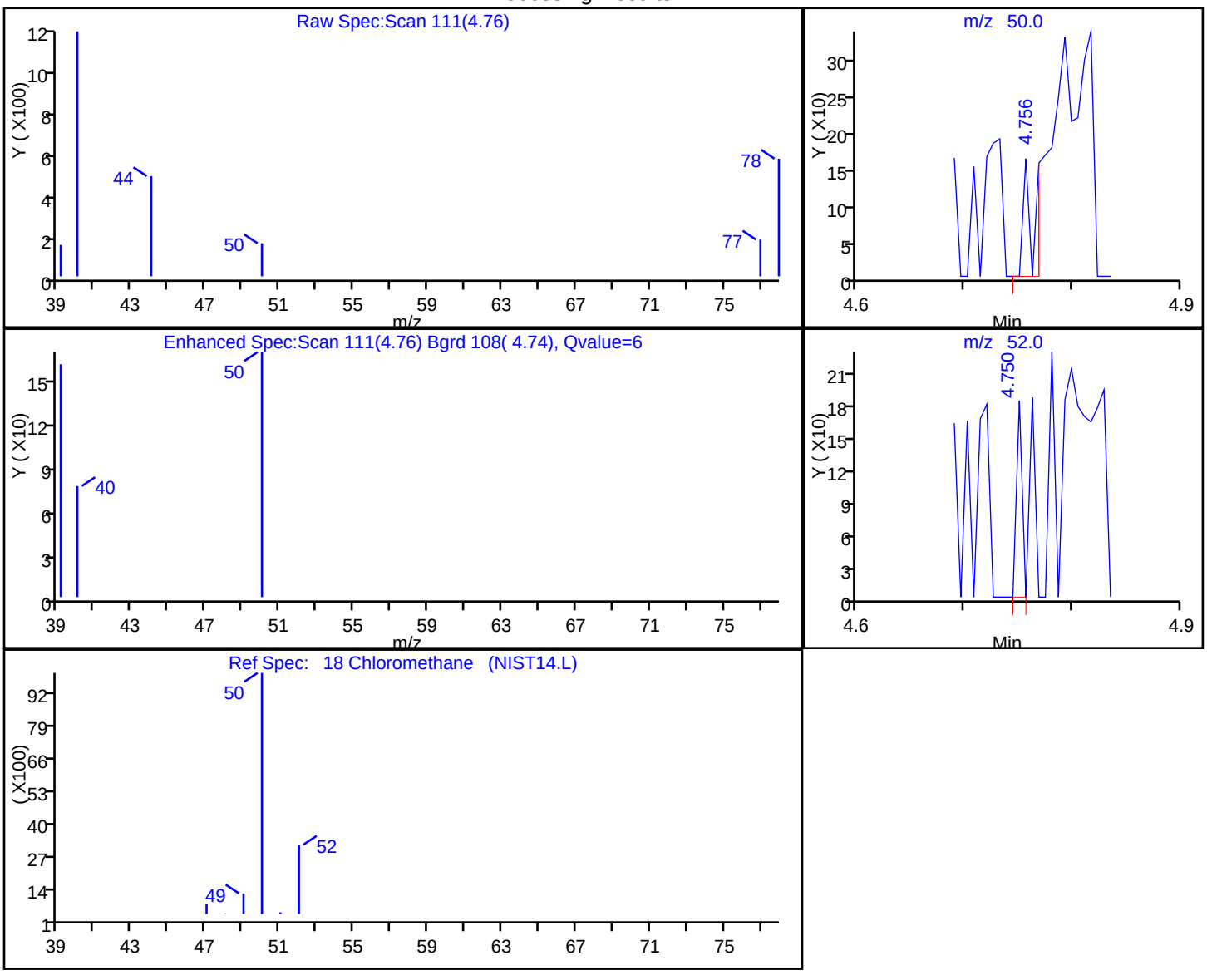
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D				
Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

18 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.76	50.00	115	0.006236
4.75	52.00	65	

Reviewer: phanthasena, 19-Feb-2018 13:54:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

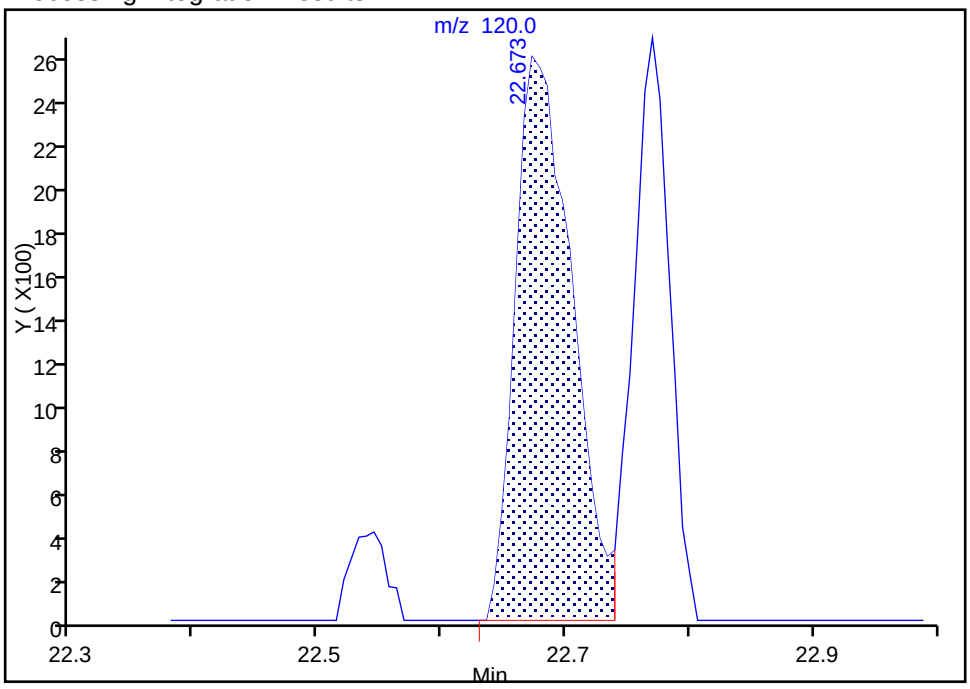
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Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

110 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

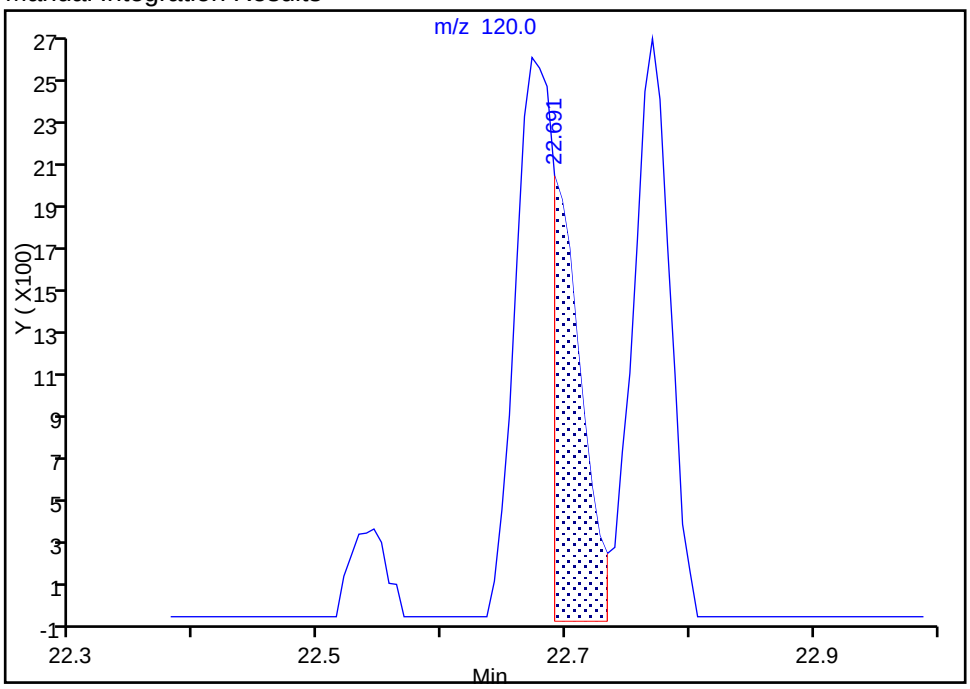
Processing Integration Results

RT: 22.67
Area: 8274
Amount: 0.213043
Amount Units: ppb v/v



Manual Integration Results

RT: 22.69
Area: 3409
Amount: 0.087776
Amount Units: ppb v/v



Reviewer: phanthasena, 19-Feb-2018 13:53:40

Audit Action: Manually Integrated Audit Reason: Split Peak

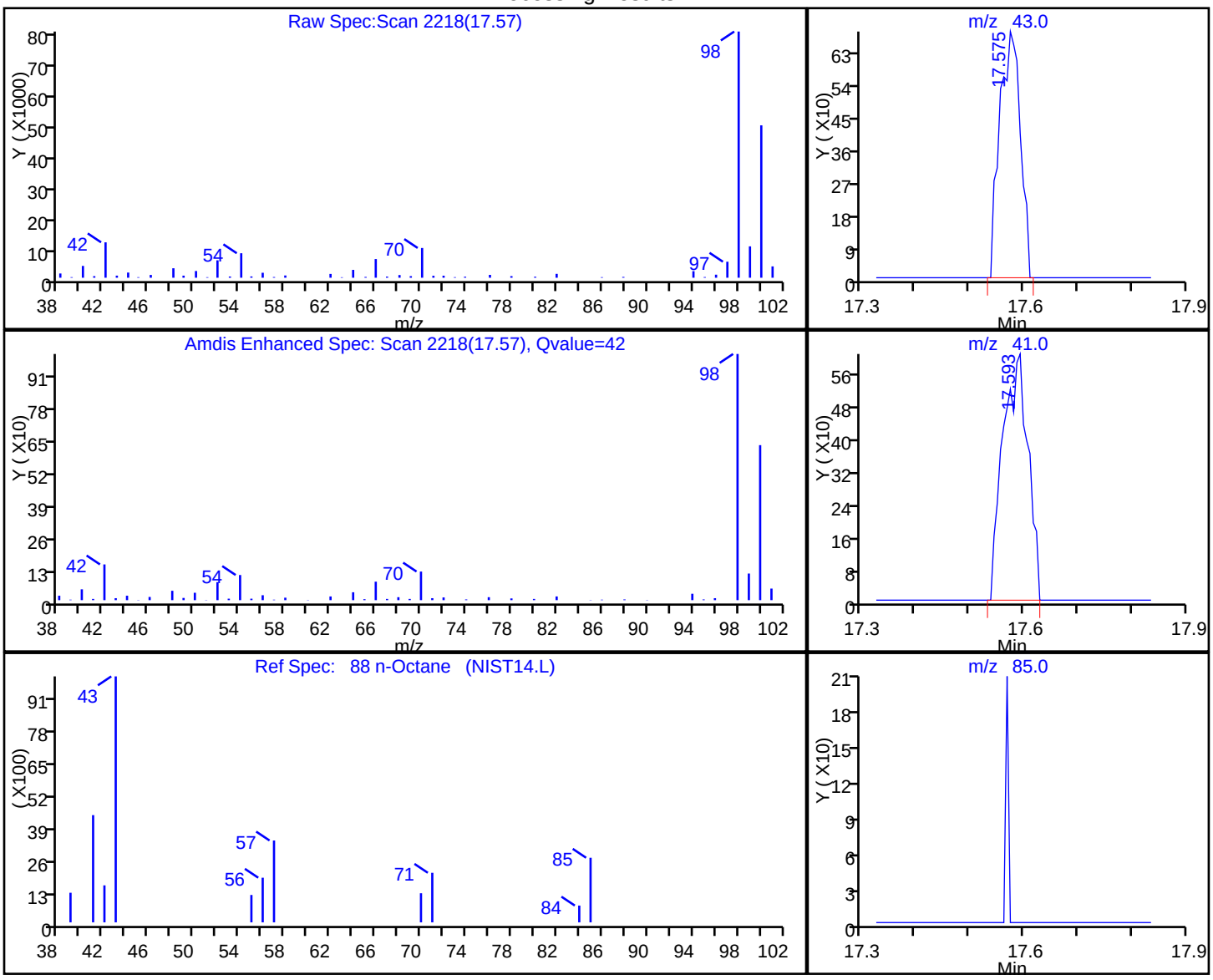
User Disabled Compound Report

TestAmerica Sacramento

Data File:	\\ChromNA\Sacramento\ChromData\ATMS9\20180217-54191.b\MS9021707.D				
Injection Date:	17-Feb-2018 16:01:30	Instrument ID:	ATMS9		
Lims ID:	320-36037-A-1	Lab Sample ID:	320-36037-1		
Client ID:	8234				
Operator ID:	RG	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS9N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

88 n-Octane, CAS: 111-65-9

Processing Results



RT	Mass	Response	Amount
17.57	43.00	1828	0.031831
17.59	41.00	1951	
17.58	85.00	0	

Reviewer: phanthasena, 19-Feb-2018 13:54:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 1 0.005ppbv	MS12120411.D
Level 2	IC 320-198233/6	MS12120412.D
Level 3	IC 320-198233/7	MS12120413.D
Level 4	IC 320-198233/8	MS12120414.D
Level 5	IC 320-198233/9	MS12120415.D
Level 6	IC 320-198233/10	MS12120416.D
Level 7	IC 320-198233/11	MS12120417.D
Level 8	ICIS 320-198233/12	MS12120418.D
Level 9	IC 320-198233/13	MS12120419.D
Level 10	IC 320-198233/14	MS12120420.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 9	LVL 5 LVL 10		B	M1	M2								
Propene	+++++ 1.2922	+++++ 1.1541	+++++ 1.1134	+++++ 1.0930	1.3286 1.0155	Ave		1.1661				10.4		30.0			
Dichlorodifluoromethane	+++++ 4.6250	+++++ 4.1985	4.4925 3.8807	3.8776 3.3151	2.8095 2.5315	Ave		3.7163				20.6		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 3.0695	+++++ 2.7812	3.1028 2.7334	2.9464 2.6811	2.5441 2.0667	Ave		2.7406				12.2		30.0			
Chloromethane	+++++ 1.5676	+++++ 1.3794	+++++ 1.3219	+++++ 1.3076	1.5162 1.2098	Ave		1.3837				9.8		30.0			
Vinyl chloride	+++++ 1.6201	+++++ 1.4978	1.7405 1.4549	1.6860 1.4611	1.5851 1.4083	Ave		1.5567				7.7		30.0			
1,3-Butadiene	+++++ 1.3598	+++++ 1.2363	+++++ 1.1560	1.1888 1.1490	1.2723 1.0845	Ave		1.2067				7.5		30.0			
Bromomethane	+++++ 1.1493	+++++ 1.0563	1.1622 1.0391	1.1626 1.0327	1.0820 1.0032	Ave		1.0859				5.9		30.0			
Chloroethane	+++++ 0.7118	+++++ 0.6497	0.7127 0.6376	0.6846 0.6318	0.6737 0.6049	Ave		0.6633				5.9		30.0			
Trichlorofluoromethane	+++++ 4.3389	4.2703 3.8910	4.0320 3.7659	4.0181 3.7045	3.9891 3.5297	Ave		3.9488				6.6		30.0			
Isopropyl alcohol	+++++ 3.3943	3.3118 3.0580	3.1138 2.9987	2.9657 2.9627	2.9766 2.7186	Ave		3.0556				6.6		30.0			
Acrolein	+++++ 0.5120	+++++ 0.4721	0.5071 0.4689	0.5152 0.4684	0.4712 0.4538	Ave		0.4836				4.9		30.0			
Acetone	+++++ 2.5666	+++++ 2.2057	+++++ 2.1380	+++++ 2.0883	2.7079 1.9276	Ave		2.2723				13.2		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 2.7721	2.7625 2.4866	2.6149 2.4270	2.5373 2.4063	2.5435 2.3205	Ave		2.5412				6.1		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

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 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloroethene	+++++ 1.1848	1.2224 1.0772	1.1540 1.0559	1.0703 1.0650	1.0615 1.0423	Ave		1.1037				5.9		30.0			
Methylene Chloride	+++++ 1.9529	+++++ 1.7038	+++++ 1.6030	+++++ 1.5569	1.9918 1.4501	Ave		1.7097				12.8		30.0			
Acrylonitrile	+++++ 1.1683	1.0824 1.0779	1.0745 1.1127	1.0827 1.0856	1.0891 1.0286	Ave		1.0891				3.4		30.0			
Methyl-t-Butyl Ether (MTBE)	+++++ 3.5186	3.4572 3.2507	3.1659 3.3161	3.1338 3.4276	3.1129 3.3830	Ave		3.3073				4.5		30.0			
trans-1,2-Dichloroethene	+++++ 1.2323	1.1632 1.1187	1.1074 1.1011	1.0648 1.0985	1.0577 1.0737	Ave		1.1130				4.9		30.0			
Hexane	+++++ 1.7850	1.7286 1.5819	1.5843 1.5472	1.5070 1.5458	1.4842 1.4543	Ave		1.5798				7.0		30.0			
1,1-Dichloroethane	+++++ 2.7345	2.6387 2.4624	2.5299 2.3894	2.4395 2.3747	2.4790 2.2641	Ave		2.4791				5.7		30.0			
Vinyl acetate	+++++ 3.3548	2.9456 3.1807	2.8506 3.2338	2.7963 3.3312	2.8856 3.2152	Ave		3.0882				7.0		30.0			
2-Butanone (MEK)	+++++ 0.5867	+++++ 0.5384	0.5482 0.5376	0.5138 0.5527	0.5197 0.5389	Ave		0.5420				4.1		30.0			
cis-1,2-Dichloroethene	+++++ 1.2002	1.0447 1.0927	1.0882 1.1034	1.0180 1.1044	1.0555 1.0844	Ave		1.0879				4.7		30.0			
Ethyl acetate	+++++ 3.3471	2.9241 3.0350	2.8890 2.9972	2.8459 2.9832	2.8591 2.8089	Ave		2.9655				5.5		30.0			
Chloroform	+++++ 2.9904	2.7464 2.6752	2.7986 2.6323	2.6889 2.5767	2.6875 2.4596	Ave		2.6950				5.5		30.0			
Tetrahydrofuran	+++++ 1.5250	1.3840 1.4022	1.3650 1.4068	1.3513 1.4277	1.3247 1.3486	Ave		1.3928				4.3		30.0			
1,1,1-Trichloroethane	+++++ 3.3157	3.2149 2.9547	3.1028 2.8527	2.9850 2.8238	2.9662 2.6953	Ave		2.9901				6.5		30.0			
Cyclohexane	+++++ 0.3047	0.3127 0.2923	0.2887 0.2942	0.2862 0.3038	0.2813 0.3003	Ave		0.2960				3.4		30.0			
Carbon tetrachloride	+++++ 0.5618	0.5999 0.5025	0.5593 0.4900	0.5460 0.4810	0.5327 0.4668	Ave		0.5267				8.4		30.0			
1,2-Dichloroethane	+++++ 0.5197	0.4848 0.4533	0.4600 0.4390	0.4552 0.4328	0.4593 0.4144	Ave		0.4576				6.7		30.0			
Benzene	+++++ 0.8850	+++++ 0.7879	0.8536 0.7751	0.8185 0.7776	0.7939 0.7631	Ave		0.8068				5.3		30.0			
n-Heptane	+++++ 0.5416	0.4909 0.5089	0.4438 0.5158	0.4428 0.5233	0.4566 0.5054	Ave		0.4921				7.4		30.0			
Trichloroethene	+++++ 0.3738	0.3321 0.3135	0.3321 0.3113	0.3181 0.3131	0.3152 0.3074	Ave		0.3241				6.3		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

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 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichloropropane	+++++ 0.1650	0.1503 0.1451	0.1490 0.1401	0.1420 0.1377	0.1462 0.1326	Ave		0.1454				6.4		30.0			
Bromodichloromethane	0.4896 0.4875	0.4460 0.4115	0.4109 0.3947	0.4012 0.3887	0.4020 0.3773	Ave		0.4210				9.5		30.0			
1,4-Dioxane	+++++ 0.1732	+++++ 0.1691	0.1608 0.1750	0.1532 0.1747	0.1594 0.1670	Ave		0.1665				4.8		30.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.6492	0.5345 0.6497	0.5655 0.6651	0.5525 0.6847	0.5778 0.6617	Ave		0.6156				9.3		30.0			
cis-1,3-Dichloropropene	+++++ 0.4563	0.4266 0.4221	0.4072 0.4239	0.3962 0.4348	0.4044 0.4333	Ave		0.4228				4.3		30.0			
Toluene	+++++ 1.0674	1.0435 0.9499	0.9895 0.9390	0.9562 0.9492	0.9536 0.9387	Ave		0.9763				4.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.5713	0.5253 0.5294	0.5471 0.5323	0.5331 0.5424	0.5265 0.5369	Ave		0.5383				2.7		30.0			
1,1,2-Trichloroethane	+++++ 0.4104	0.4060 0.3574	0.3747 0.3591	0.3717 0.3536	0.3707 0.3432	Ave		0.3719				6.2		30.0			
2-Hexanone	+++++ 0.2888	+++++ 0.3721	0.3105 0.3932	0.2976 0.4142	0.3193 0.4161	Ave		0.3515				15.1		30.0			
Tetrachloroethene	+++++ 0.6256	+++++ 0.5518	0.5807 0.5334	0.5577 0.5320	0.5641 0.5219	Ave		0.5584				6.0		30.0			
Dibromochloromethane	+++++ 0.7113	0.6898 0.6250	0.6538 0.6145	0.6354 0.6155	0.6596 0.6044	Ave		0.6455				5.6		30.0			
1,2-Dibromoethane (EDB)	0.6827 0.5857	0.5908 0.5312	0.5575 0.5254	0.5387 0.5301	0.5408 0.5237	Ave		0.5607				8.8		30.0			
Chlorobenzene	+++++ 0.9424	0.9517 0.8405	0.9038 0.8284	0.8758 0.8275	0.8716 0.8127	Ave		0.8727				5.8		30.0			
Ethylbenzene	+++++ 1.5719	1.4625 1.4585	1.3935 1.4595	1.3713 1.4742	1.4142 1.4516	Ave		1.4508				4.0		30.0			
m,p-Xylene	1.2704 1.2146	1.0871 1.1491	1.0389 1.1626	1.0164 1.1812	1.0691 1.1657	Ave		1.1355				7.1		30.0			
o-Xylene	+++++ 1.1403	1.0551 1.0827	1.0195 1.1192	0.9855 1.1587	1.0172 1.1540	Ave		1.0814				6.0		30.0			
Styrene	0.7806 0.7857	0.7189 0.7797	0.6911 0.8136	0.6797 0.8463	0.7395 0.8522	Ave		0.7687				7.9		30.0			
Bromoform	+++++ 0.6783	+++++ 0.6202	0.7673 0.6152	0.6939 0.6263	0.6628 0.6248	Ave		0.6611				7.9		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8085	0.7669 0.7396	0.7591 0.7314	0.7478 0.7332	0.7613 0.7170	Ave		0.7516				3.6		30.0			
1,2,3-Trichloropropane	+++++ 0.2410	+++++ 0.2232	+++++ 0.2172	0.2593 0.2174	0.2432 0.2109	Ave		0.2303				7.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

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 9	LVL 5 LVL 10		B	M1	M2								
4-Ethyltoluene	0.4393 0.4387	0.4075 0.4277	0.3889 0.4343	0.3851 0.4388	0.4072 0.4629	Ave		0.4230				5.9		30.0			
1,3,5-Trimethylbenzene	+++++ 0.6202	0.5530 0.5976	0.5396 0.6009	0.5372 0.6157	0.5713 0.6125	Ave		0.5831				5.7		30.0			
1,2,4-Trimethylbenzene	+++++ 0.5707	0.5705 0.5709	0.4814 0.5801	0.5008 0.6005	0.5378 0.5972	Ave		0.5566				7.5		30.0			
1,3-Dichlorobenzene	+++++ 0.8389	0.8659 0.8195	0.8680 0.8397	0.8427 0.8681	0.8934 0.8595	Ave		0.8551				2.6		30.0			
1,4-Dichlorobenzene	+++++ 0.7323	0.8208 0.7810	0.8307 0.8063	0.8017 0.8415	0.8033 0.8459	Ave		0.8071				4.3		30.0			
Benzyl chloride	0.9387 0.9653	1.0387 1.2264	1.1737 1.3107	1.1319 1.4189	1.1622 1.4502	Ave		1.1817				14.8		30.0			
1,2-Dichlorobenzene	+++++ 0.7525	0.8106 0.7666	0.8173 0.7766	0.7939 0.7968	0.8081 0.7845	Ave		0.7897				2.7		30.0			
1,2,4-Trichlorobenzene	+++++ 0.3947	0.5937 0.5244	0.6150 0.5340	0.5960 0.5372	0.5902 0.5153	Ave		0.5445				12.3		30.0			
Hexachlorobutadiene	+++++ 0.8316	0.9110 0.7522	0.9255 0.7375	0.8762 0.7143	0.8860 0.6669	Ave		0.8112				11.7		30.0			
Naphthalene	1.0210 0.5687	0.9270 0.8964	1.1778 0.9496	1.0875 0.9572	1.1094 0.8870	Ave		0.9582				17.5		30.0			
1,2-Dichloroethane-d4 (Surr)	0.4412 0.4489	0.4421 0.4468	0.4462 0.4432	0.4460 0.4410	0.4482 0.4417	Ave		0.4445				0.7		30.0			
Toluene-d8 (Surr)	0.5853 0.5892	0.5852 0.5946	0.5871 0.5983	0.5894 0.6020	0.5850 0.6038	Ave		0.5920				1.2		30.0			
4-Bromofluorobenzene (Surr)	0.6557 0.7037	0.6974 0.7470	0.7230 0.7522	0.7214 0.7602	0.7266 0.7638	Ave		0.7251				4.6		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 1 0.005ppbv	MS12120411.D
Level 2	IC 320-198233/6	MS12120412.D
Level 3	IC 320-198233/7	MS12120413.D
Level 4	IC 320-198233/8	MS12120414.D
Level 5	IC 320-198233/9	MS12120415.D
Level 6	IC 320-198233/10	MS12120416.D
Level 7	IC 320-198233/11	MS12120417.D
Level 8	ICIS 320-198233/12	MS12120418.D
Level 9	IC 320-198233/13	MS12120419.D
Level 10	IC 320-198233/14	MS12120420.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propene	CBM	Ave	+++++	+++++	+++++	+++++	2408	+++++	+++++	+++++	+++++	0.100
			4702	12723	25190	52847	105942	0.200	0.600	1.20	2.50	5.00
Dichlorodifluoromethane	CBM	Ave	+++++	+++++	1639	2815	5092	+++++	+++++	0.0200	0.0400	0.100
			16829	46286	87796	160283	264091	0.200	0.600	1.20	2.50	5.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	+++++	+++++	1132	2139	4611	+++++	+++++	0.0200	0.0400	0.100
			11169	30661	61839	129630	215602	0.200	0.600	1.20	2.50	5.00
Chloromethane	CBM	Ave	+++++	+++++	+++++	+++++	2748	+++++	+++++	+++++	+++++	0.100
			5704	15207	29906	63223	126211	0.200	0.600	1.20	2.50	5.00
Vinyl chloride	CBM	Ave	+++++	+++++	635	1224	2873	+++++	+++++	0.0200	0.0400	0.100
			5895	16512	32916	70642	146915	0.200	0.600	1.20	2.50	5.00
1,3-Butadiene	CBM	Ave	+++++	+++++	+++++	863	2306	+++++	+++++	+++++	0.0400	0.100
			4948	13629	26152	55552	113141	0.200	0.600	1.20	2.50	5.00
Bromomethane	CBM	Ave	+++++	+++++	424	844	1961	+++++	+++++	0.0200	0.0400	0.100
			4182	11645	23508	49933	104659	0.200	0.600	1.20	2.50	5.00
Chloroethane	CBM	Ave	+++++	+++++	260	497	1221	+++++	+++++	0.0200	0.0400	0.100
			2590	7163	14425	30546	63103	0.200	0.600	1.20	2.50	5.00
Trichlorofluoromethane	CBM	Ave	+++++	793	1471	2917	7230	+++++	0.0100	0.0200	0.0400	0.100
			15788	42896	85199	179111	368231	0.200	0.600	1.20	2.50	5.00
Isopropyl alcohol	CBM	Ave	+++++	615	1136	2153	5395	+++++	0.0100	0.0200	0.0400	0.100
			12351	33713	67842	143245	283613	0.200	0.600	1.20	2.50	5.00
Acrolein	CBM	Ave	+++++	+++++	185	374	854	+++++	+++++	0.0200	0.0400	0.100
			1863	5205	10608	22645	47343	0.200	0.600	1.20	2.50	5.00
Acetone	CBM	Ave	+++++	+++++	+++++	+++++	4908	+++++	+++++	+++++	+++++	0.100
			9339	24316	48369	100970	201094	0.200	0.600	1.20	2.50	5.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	+++++	513	954	1842	4610	+++++	0.0100	0.0200	0.0400	0.100
			10087	27413	54908	116347	242081	0.200	0.600	1.20	2.50	5.00
1,1-Dichloroethene	CBM	Ave	+++++	227	421	777	1924	+++++	0.0100	0.0200	0.0400	0.100
			4311	11875	23888	51494	108736	0.200	0.600	1.20	2.50	5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Methylene Chloride	CBM	Ave	+++++ 7106	+++++ 18783	+++++ 36265	+++++ 75278	3610 151280	+++++ 0.200	+++++ 0.600	+++++ 1.20	+++++ 2.50	0.100 5.00
Acrylonitrile	CBM	Ave	+++++ 4251	201 11883	392 25174	786 52490	1974 107308	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Methyl-t-Butyl Ether (MTBE)	CBM	Ave	+++++ 12803	642 35837	1155 75021	2275 165723	5642 352921	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
trans-1,2-Dichloroethene	CBM	Ave	+++++ 4484	216 12333	404 24910	773 53111	1917 112012	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Hexane	CBM	Ave	+++++ 6495	321 17440	578 35004	1094 74739	2690 151712	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1-Dichloroethane	CBM	Ave	+++++ 9950	490 27147	923 54056	1771 114816	4493 236198	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Vinyl acetate	CBM	Ave	+++++ 12207	547 35065	1040 73161	2030 161065	5230 335419	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
2-Butanone (MEK)	CBM	Ave	+++++ 2135	+++++ 5935	200 12162	373 26721	942 56224	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 4367	194 12046	397 24963	739 53400	1913 113129	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Ethyl acetate	CBM	Ave	+++++ 12179	543 33459	1054 67807	2066 144238	5182 293034	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Chloroform	CBM	Ave	+++++ 10881	510 29492	1021 59552	1952 124585	4871 256592	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Tetrahydrofuran	CBM	Ave	+++++ 5549	257 15458	498 31826	981 69028	2401 140689	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,1-Trichloroethane	CBM	Ave	+++++ 12065	597 32574	1132 64538	2167 136529	5376 281182	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Cyclohexane	DFBZ	Ave	+++++ 4933	258 14458	465 29777	923 65856	2257 139047	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Carbon tetrachloride	DFBZ	Ave	+++++ 9095	495 24851	901 49591	1761 104282	4275 216096	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloroethane	DFBZ	Ave	+++++ 8413	400 22422	741 44429	1468 93828	3686 191879	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Benzene	DFBZ	Ave	+++++ 14328	+++++ 38968	1375 78456	2640 168570	6371 353290	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
n-Heptane	DFBZ	Ave	+++++ 8768	405 25172	715 52205	1428 113455	3664 233998	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Trichloroethene	DFBZ	Ave	+++++ 6051	274 15506	535 31505	1026 67883	2529 142338	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 2672	124 7179	240 14184	458 29860	1173 61406	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Bromodichloromethane	DFBZ	Ave	204 7892	368 20354	662 39950	1294 84266	3226 174685	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DFBZ	Ave	+++++ 2804	+++++ 8363	259 17712	494 37868	1279 77320	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	+++++ 10511	441 32136	911 67315	1782 148426	4637 306348	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 7387	352 20879	656 42904	1278 94251	3245 200613	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Toluene	DFBZ	Ave	+++++ 17281	861 46980	1594 95046	3084 205768	7652 434589	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	+++++ 7687	361 21969	733 45320	1433 99566	3512 211932	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,2-Trichloroethane	CBZd 5	Ave	+++++ 5522	279 14833	502 30573	999 64904	2473 135475	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
2-Hexanone	CBZd 5	Ave	+++++ 3886	+++++ 15443	416 33478	800 76028	2130 164226	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Tetrachloroethene	CBZd 5	Ave	+++++ 8418	+++++ 22901	778 45415	1499 97649	3763 205985	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Dibromochloromethane	CBZd 5	Ave	+++++ 9572	474 25937	876 52317	1708 112982	4400 238573	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	230 7881	406 22047	747 44737	1448 97313	3607 206714	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Chlorobenzene	CBZd 5	Ave	+++++ 12681	654 34882	1211 70533	2354 151900	5814 320780	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Ethylbenzene	CBZd 5	Ave	+++++ 21152	1005 60529	1867 124271	3686 270617	9433 572953	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
m,p-Xylene	CBZd 5	Ave	856 32687	1494 95377	2784 197971	5464 433658	14263 920243	0.0100 0.400	0.0200 1.20	0.0400 2.40	0.0800 5.00	0.200 10.0
o-Xylene	CBZd 5	Ave	+++++ 15344	725 44934	1366 95294	2649 212690	6785 455514	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Styrene	CBZd 5	Ave	263 10573	494 32358	926 69269	1827 155356	4933 336379	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Bromoform	CBZd 5	Ave	+++++ 9128	+++++ 25737	1028 52379	1865 114959	4421 246635	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	+++++ 10879	527 30693	1017 62272	2010 134585	5078 283001	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2,3-Trichloropropane	CBZd 5	Ave	+++++ 3243	+++++ 9262	+++++ 18496	697 39911	1622 83262	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
4-Ethyltoluene	CBZd 5	Ave	148 5903	280 17749	521 36981	1035 80547	2716 182717	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	+++++ 8346	380 24799	723 51159	1444 113030	3811 241750	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	+++++ 7680	392 23694	645 49389	1346 110235	3587 235725	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,3-Dichlorobenzene	CBZd5	Ave	+++++ 11289	595 34012	1163 71499	2265 159360	5959 339252	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,4-Dichlorobenzene	CBZd5	Ave	+++++ 9854	564 32414	1113 68654	2155 154474	5358 333892	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Benzyl chloride	CBZd5	Ave	253 10391	571 40719	1258 89281	2434 208365	6202 457936	0.00400 0.160	0.00800 0.480	0.0160 0.960	0.0320 2.00	0.0800 4.00
1,2-Dichlorobenzene	CBZd5	Ave	+++++ 10126	557 31813	1095 66126	2134 146273	5390 309662	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2,4-Trichlorobenzene	CBZd5	Ave	+++++ 5311	408 21762	824 45470	1602 98618	3937 203394	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Hexachlorobutadiene	CBZd5	Ave	+++++ 11190	626 31219	1240 62796	2355 131117	5910 263227	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Naphthalene	CBZd5	Ave	344 7653	637 37203	1578 80851	2923 175713	7400 350119	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloroethane-d4 (Surr)	DFBZ	Ave	73528 72673	72956 73659	71880 74762	71917 76489	71927 81803	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00
Toluene-d8 (Surr)	DFBZ	Ave	97538 95385	96561 98036	94582 100925	95051 104401	93884 111824	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00
4-Bromofluorobenzene (Surr)	CBZd5	Ave	88371 94695	95852 103343	96869 106748	96958 111644	96939 120595	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00

Curve Type Legend:
Ave = Average ISTD

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 206971

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 02:26 Calibration End Date: 02/06/2018 09:14 Calibration ID: 37823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-206971/17	18020517.D
Level 2	IC 320-206971/18	18020518.D
Level 3	IC 320-206971/19	18020519.D
Level 4	IC 320-206971/20	18020520.D
Level 5	IC 320-206971/21	18020521.D
Level 6	IC 320-206971/22	18020522.D
Level 7	IC 320-206971/23	18020523.D
Level 8	IC 320-206971/24	18020524.D
Level 9	IC 320-206971/25	18020525.D
Level 10	IC 320-206971/26	18020526.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 9	LVL 5 LVL 10		B	M1	M2								
Ethane, 1,1,1,2-tetrafluoro-	0.7859 1.0011	0.7904 0.7870	0.7530 0.9319	0.8597 0.9268	0.8478 0.8107	Ave		0.8494				9.5		30.0			
1,1-Difluoroethane	1.1761 1.4288	1.1903 1.1277	1.1304 1.3009	1.2532 1.3062	1.2308 1.1335	Ave		1.2278				7.9		30.0			
Propane	0.3148 0.4598	0.3737 0.3677	0.3940 0.3764	0.3807 0.3734	0.3657 0.3347	Ave		0.3741				10.1		30.0			
Isobutane	1.9667 2.5789	1.9803 1.9874	1.8189 2.2193	2.1589 2.2056	2.0963 1.9108	Ave		2.0923				10.3		30.0			
Dichlorofluoromethane	1.8295 2.1801	1.7716 1.6958	1.6067 1.9591	1.9346 1.9457	1.9515 1.7685	Ave		1.8643				8.8		30.0			
Ethanol	0.1325 0.1753	0.1411 0.1368	0.1449 0.1717	0.1823 0.1600	0.1841 0.1483	Ave		0.1577				12.3		30.0			
1,1-Dichloro-1-fluoroethane	1.8733 2.2982	1.9099 1.7920	1.7613 2.0870	2.0373 2.0945	2.0548 1.8878	Ave		1.9796				8.3		30.0			
2-Propanol	1.3190 1.8779	1.3919 1.4530	1.5015 1.8452	1.8421 1.7531	1.7678 1.6234	Ave		1.6375				12.7		30.0			
Iodomethane	2.2048 2.7432	2.2702 2.1717	2.1314 2.4342	2.4189 2.4172	2.4297 2.1350	Ave		2.3356				8.2		30.0			
Di-isopropyl ether (DIPE)	2.4438 3.3899	2.6322 2.1705	2.5934 3.0401	3.7473 2.5564	3.6624 2.5120	Ave		2.8748				19.1		30.0			
Ethyl-t-butyl ether (ETBE)	2.2696 3.0873	2.3610 1.9204	2.2917 2.7426	3.3793 2.2983	3.2675 2.3063	Ave		2.5924				19.1		30.0			
2,2-Dichloropropane	1.7792 2.0719	1.6515 1.5386	1.4665 1.8549	1.8039 1.8422	1.7928 1.6742	Ave		1.7476				9.9		30.0			
1,1-Dichloropropene	1.5174 1.7820	1.4537 1.3331	1.2782 1.5790	1.5519 1.5633	1.5230 1.3998	Ave		1.4981				9.5		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 206971

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 02:26 Calibration End Date: 02/06/2018 09:14 Calibration ID: 37823

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 9	LVL 5 LVL 10		B	M1	M2								
Tert-amyl-methyl ether (TAME)	0.4650 0.6887	0.4876 0.3719	0.4948 0.6062	0.7129 0.4888	0.6735 0.4757	Ave		0.5465				21.1		30.0			
1,3-Dichloropropane	0.3027 0.4158	0.2999 0.2628	0.2705 0.4153	0.4214 0.3714	0.4247 0.3460	Ave		0.3531				18.5		30.0			
1,1,1,2-Tetrachloroethane	0.4053 0.4234	0.3776 0.3491	0.3199 0.3998	0.4035 0.3805	0.4146 0.3513	Ave		0.3825				8.7		30.0			
Cyclohexanone	0.2146 0.3971	0.2001 0.2669	0.2197 0.3851	0.2748 0.3343	0.2490 0.2985	Ave		0.2840				24.4		30.0			
Bromobenzene	0.4200 0.4884	0.3997 0.3391	0.3845 0.4510	0.4764 0.4042	0.4746 0.3591	Ave		0.4197				12.3		30.0			
1,2-Dibromo-3-Chloropropane	0.2973 0.5186	0.3141 0.3210	0.3225 0.4635	0.4326 0.3939	0.4338 0.3422	Ave		0.3839				19.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 206971

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 02:26 Calibration End Date: 02/06/2018 09:14 Calibration ID: 37823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-206971/17	18020517.D
Level 2	IC 320-206971/18	18020518.D
Level 3	IC 320-206971/19	18020519.D
Level 4	IC 320-206971/20	18020520.D
Level 5	IC 320-206971/21	18020521.D
Level 6	IC 320-206971/22	18020522.D
Level 7	IC 320-206971/23	18020523.D
Level 8	IC 320-206971/24	18020524.D
Level 9	IC 320-206971/25	18020525.D
Level 10	IC 320-206971/26	18020526.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Ethane, 1,1,1,2-tetrafluoro-	CBM	Ave	2314 124692	3133 219603	4128 508352	9353 722220	23271 1186446	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1-Difluoroethane	CBM	Ave	3463 177968	4718 314669	6197 709676	13634 1017868	33785 1658870	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Propane	CBM	Ave	927 57267	1481 102587	2160 205321	4142 290957	10039 489864	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Isobutane	CBM	Ave	5791 321222	7849 554535	9971 1210673	23488 1718771	57542 2796525	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dichlorofluoromethane	CBM	Ave	5387 271543	7022 473188	8808 1068713	21048 1516265	53567 2588218	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethanol	CBM	Ave	1951 109181	2796 190857	3973 468276	9915 623465	25264 1085172	1.00 50.0	1.48 100	2.00 200	4.00 300	10.0 500
1,1-Dichloro-1-fluoroethane	CBM	Ave	5516 286253	7570 500021	9655 1138505	22165 1632226	56403 2762889	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Propanol	CBM	Ave	3884 233903	5517 405438	8231 1006594	20041 1366168	48526 2375926	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Iodomethane	CBM	Ave	6492 341691	8998 605975	11684 1327929	26317 1883669	66694 3124634	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Di-isopropyl ether (DIPE)	CBM	Ave	7196 422233	10433 605636	14217 1658446	40769 1992138	100531 3676498	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethyl-t-butyl ether (ETBE)	CBM	Ave	6683 384546	9358 535840	12563 1496126	36765 1791036	89690 3375327	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2,2-Dichloropropane	CBM	Ave	5239 258076	6546 429302	8039 1011879	19626 1435554	49211 2450271	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1-Dichloropropene	CBM	Ave	4468 221961	5762 371972	7007 861357	16884 1218221	41805 2048726	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Tert-amyl-methyl ether (TAME)	DFBZ	Ave	5849 329157	8372 453095	11496 1283486	31516 1548371	76784 3023697	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 206971

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 02:26 Calibration End Date: 02/06/2018 09:14 Calibration ID: 37823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,3-Dichloropropane	CBZd5	Ave	3482 184403	4763 297264	5643 824374	17382 1127184	44695 2038746	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1,1,2-Tetrachloroethane	CBZd5	Ave	4662 187744	5997 394842	6675 793720	16644 1155022	43634 2070016	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Cyclohexanone	CBZd5	Ave	2469 176097	3178 301856	4584 764482	11335 1014663	26201 1758678	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromobenzene	CBZd5	Ave	4832 216585	6348 383525	8022 895361	19648 1226854	49952 2116199	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dibromo-3-Chloropropane	CBZd5	Ave	3420 229973	4988 363044	6728 920060	17843 1195689	45651 2016202	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

Curve Type Legend:
Ave = Average ISTD

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-207197/3	18020603.D
Level 2	IC 320-207197/4	18020604.D
Level 3	IC 320-207197/5	18020605.D
Level 4	IC 320-207197/6	18020606.D
Level 5	IC 320-207197/7	18020607.D
Level 6	IC 320-207197/8	18020608.D
Level 7	ICIS 320-207197/9	18020609.D
Level 8	IC 320-207197/10	18020610.D
Level 9	IC 320-207197/11	18020611.D
Level 10	IC 320-207197/12	18020612.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 9	LVL 5 LVL 10		B	M1	M2								
Propylene	1.2646 1.2482	1.4153 1.1178	1.1911 1.0353	1.1337 0.9834	1.0582 0.8652	Ave		1.1313				13.9		30.0			
Chlorodifluoromethane	1.6396 2.1464	2.0243 1.7639	1.8226 1.7361	1.8049 1.6233	1.7803 1.5294	Ave		1.7871				10.3		30.0			
Dichlorodifluoromethane	2.1364 2.9124	2.7429 2.4762	2.5125 2.3931	2.4211 2.2990	2.4321 2.1326	Ave		2.4458				9.9		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.7168 2.2137	2.0539 1.7889	1.8539 1.7785	1.8442 1.6516	1.8344 1.5373	Ave		1.8273				10.5		30.0			
Chloromethane	1.1404 1.3220	1.3279 1.0919	1.1667 1.0715	1.1552 1.0137	1.1316 0.9778	Ave		1.1399				10.1		30.0			
n-Butane	1.9040 2.3646	2.3006 1.8967	2.0874 1.9017	2.0251 1.7668	1.9793 1.6585	Ave		1.9885				11.0		30.0			
Vinyl chloride	0.9703 1.2996	1.1671 1.0699	1.1054 1.0612	1.0688 0.9889	1.0877 0.9483	Ave		1.0767				9.5		30.0			
1,3-Butadiene	1.0023 1.1988	1.1411 0.9636	1.0431 0.9475	1.0255 0.8743	0.9907 0.8415	Ave		1.0028				10.9		30.0			
Bromomethane	0.8006 1.0247	0.9529 0.8398	0.8587 0.8219	0.8540 0.7696	0.8509 0.7542	Ave		0.8527				9.6		30.0			
Chloroethane	0.4202 0.6741	0.5574 0.5357	0.5418 0.5331	0.5486 0.5067	0.5503 0.4961	Ave		0.5364				11.8		30.0			
Vinyl bromide	0.8010 1.0646	0.9443 0.8604	0.8983 0.8418	0.8891 0.7884	0.8809 0.7805	Ave		0.8749				9.7		30.0			
Trichlorofluoromethane	2.4687 3.0506	2.9232 2.4689	2.6518 2.3933	2.5613 2.2344	2.5695 2.1948	Ave		2.5517				10.6		30.0			
n-Pentane	2.2858 2.8442	2.7660 2.3019	2.4900 2.2500	2.4380 2.0990	2.4221 2.0219	Ave		2.3919				11.0		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

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 9	LVL 5 LVL 10		B	M1	M2								
Ethyl ether	+++++ 0.4190	0.4437 0.2994	0.3398 0.3250	0.3958 0.2945	0.4455 0.3421	Lin1	0.0474	0.3259							0.9910		0.9900
Acrolein	+++++ 0.4065	0.3532 0.3108	0.3170 0.3304	0.3661 0.3146	0.3991 0.3628	Lin1	0.0104	0.3421							0.9940		0.9900
Acetone	+++++ 1.2519	+++++ 1.0456	+++++ 1.0031	+++++ 1.0291	1.5884 1.1003	Lin1	1.0820	1.0432							0.9970		0.9900
Freon-113	1.7663 2.3547	2.1840 1.8772	2.0821 1.8196	2.0242 1.7360	2.0244 1.7295	Ave		1.9598				10.7		30.0			
1,1-Dichloroethene	1.6909 2.1578	2.0527 1.6932	1.8216 1.6203	1.7811 1.5430	1.7995 1.5348	Ave		1.7695				11.5		30.0			
Acetonitrile	+++++ 0.8483	0.8581 0.6503	0.7597 0.6993	0.7808 0.6731	0.9018 0.7489	Lin1	0.0609	0.7160							0.9950		0.9900
tert-Butyl alcohol (TBA)	1.6916 2.5918	2.3245 2.2760	2.0602 2.3336	2.2390 2.3504	2.3175 2.2373	Ave		2.2422				10.4		30.0			
Allyl chloride	1.4130 1.9329	1.7663 1.5502	1.6176 1.5047	1.6243 1.4213	1.7006 1.4606	Ave		1.5991				10.4		30.0			
Methylene Chloride	+++++ 1.6365	+++++ 1.2940	1.5994 1.2552	1.4880 1.1875	1.4746 1.2108	Ave		1.3932				12.8		30.0			
Carbon disulfide	2.2502 2.7187	2.7393 2.2397	2.4076 2.1655	2.3148 2.0570	2.2787 2.0321	Ave		2.3204				10.5		30.0			
Acrylonitrile	0.3181 0.7711	0.6666 0.5772	0.5638 0.6420	0.6567 0.6232	0.7731 0.7076	Ave		0.6299				20.7		30.0			
Methyl-t-Butyl Ether (MTBE)	1.7884 2.2861	2.5497 1.8717	2.1435 1.8428	2.2935 1.7983	2.5349 1.9625	Lin1	0.1566	1.9062							0.9960		0.9900
trans-1,2-Dichloroethene	1.1756 1.6595	1.5502 1.3208	1.4560 1.2952	1.4212 1.2403	1.4355 1.2726	Ave		1.3827				10.8		30.0			
C6 Range	6.1988 8.2299	7.7694 6.5443	7.2823 6.5188	7.1316 6.1084	7.1392 6.1407	Ave		6.9063				10.5		30.0			
n-Hexane	1.2045 1.5514	1.4513 1.2298	1.3730 1.2267	1.3341 1.1416	1.3685 1.1459	Ave		1.3027				10.4		30.0			
1,1-Dichloroethane	1.6037 2.1735	2.0152 1.7396	1.8230 1.7810	1.8534 1.6783	1.9151 1.7188	Ave		1.8302				9.2		30.0			
Vinyl acetate	1.5165 2.5993	2.6101 2.2217	2.1978 2.1987	2.5201 2.2927	2.8709 2.4113	Ave		2.3439				15.5		30.0			
2-Butanone (MEK)	+++++ 0.4299	0.3098 0.3697	0.2784 0.3619	0.3683 0.3725	0.4446 0.3897	Ave		0.3694				14.1		30.0			
cis-1,2-Dichloroethene	+++++ 1.2068	1.1139 0.9718	1.0171 0.9910	1.0071 0.9346	1.0393 0.9405	Ave		1.0247				8.5		30.0			
Ethyl acetate	1.1856 2.1362	2.1960 1.7890	1.7516 1.7484	2.0974 1.7989	2.3674 1.8695	Ave		1.8940				17.4		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

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 9	LVL 5 LVL 10		B	M1	M2								
Chloroform	1.7691 2.3067	2.1991 1.9179	2.0191 1.9295	1.9917 1.8272	2.0355 1.8262	Ave		1.9822				8.5		30.0			
Tetrahydrofuran	0.8077 1.2659	1.3532 1.0301	1.0827 1.0245	1.2308 1.0314	1.3649 1.1115	Lin1	0.0419	1.0765							0.9960		0.9900
1,1,1-Trichloroethane	1.9239 2.4531	2.3686 1.9955	2.1188 2.0433	2.1444 1.9345	2.2076 1.9304	Ave		2.1120				8.8		30.0			
Cyclohexane	0.2950 0.3748	0.3867 0.3024	0.3382 0.2926	0.3279 0.2789	0.3212 0.2799	Ave		0.3198				11.8		30.0			
2,2,4-Trimethylpentane	1.2294 1.6902	1.6326 1.4627	1.3876 1.3572	1.3980 1.2597	1.4138 1.2176	Ave		1.4049				11.3		30.0			
Carbon tetrachloride	0.4626 0.5853	0.5949 0.4809	0.5321 0.4632	0.5178 0.4406	0.5196 0.4325	Ave		0.5030				11.3		30.0			
n-Butanol	+++++ 1.1644	+++++ 1.0596	+++++ 1.1226	0.8829 1.1272	0.9951 1.0837	Ave		1.0622				9.1		30.0			
1,2-Dichloroethane	+++++ 0.3421	0.3374 0.3145	0.2813 0.3231	0.2971 0.2759	0.3154 0.3079	Ave		0.3105				7.3		30.0			
Benzene	+++++ 0.8335	0.8180 0.7405	0.6714 0.7282	0.6999 0.6619	0.7307 0.6895	Ave		0.7304				8.3		30.0			
n-Heptane	+++++ 0.6849	0.6618 0.5902	0.5831 0.5465	0.5877 0.5144	0.5796 0.4949	Ave		0.5826				10.6		30.0			
Trichloroethene	0.3819 0.4603	0.4316 0.3899	0.3851 0.3584	0.3615 0.3271	0.3566 0.3088	Ave		0.3761				12.0		30.0			
NMOC as Hexane	684.31 649.71	768.36 550.75	633.68 556.02	612.62 532.61	621.35 516.51	Ave		6.9063				10.5		30.0			
1,2-Dichloropropane	+++++ 0.1028	0.1007 0.0880	0.0806 0.0901	0.0892 0.0855	0.0986 0.0923	Ave		0.0920				8.0		30.0			
Methyl methacrylate	+++++ 0.2409	0.2034 0.2100	0.1756 0.2033	0.2018 0.2110	0.2372 0.2147	Ave		0.2109				9.3		30.0			
Bromodichloromethane	+++++ 0.4013	0.3705 0.3545	0.3244 0.3300	0.3329 0.3144	0.3344 0.2996	Ave		0.3402				9.1		30.0			
Dibromomethane	+++++ 0.3634	0.3517 0.3185	0.3106 0.2884	0.3085 0.2718	0.3094 0.2516	Ave		0.3082				11.5		30.0			
1,4-Dioxane	0.1057 0.1801	0.1623 0.1541	0.1353 0.1471	0.1580 0.1499	0.1682 0.1448	Ave		0.1505				13.4		30.0			
4-Methyl-2-pentanone (MIBK)	0.4484 0.7321	0.6628 0.6235	0.5532 0.5940	0.6223 0.6011	0.6907 0.5832	Ave		0.6111				12.8		30.0			
Total VOC as Hexane (C6-C12)	1248.4 712.93	1179.6 603.15	936.97 605.69	790.24 579.80	724.16 558.81	Ave		6.9063				10.5		30.0			
cis-1,3-Dichloropropene	0.2812 0.4623	0.4591 0.4202	0.3685 0.4442	0.3972 0.3883	0.4298 0.4293	Ave		0.4080				13.2		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

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 9	LVL 5 LVL 10		B	M1	M2								
n-Octane	0.7649 0.9808	0.8652 0.8150	0.8067 0.7796	0.7863 0.7450	0.8275 0.7036	Ave		0.8074				9.4		30.0			
Toluene	0.4846 0.8260	0.8973 0.7103	0.6843 0.7106	0.7501 0.6876	0.8193 0.7080	Ave		0.7278				15.3		30.0			
trans-1,3-Dichloropropene	0.2707 0.4051	0.3955 0.3347	0.3283 0.3614	0.3555 0.3522	0.3997 0.3772	Ave		0.3580				11.3		30.0			
1,1,2-Trichloroethane	0.1918 0.2897	0.3025 0.2383	0.2626 0.2515	0.2609 0.2469	0.2974 0.2592	Ave		0.2601				12.5		30.0			
2-Hexanone	0.3768 0.7613	0.6164 0.6094	0.5552 0.6154	0.6267 0.6384	0.7158 0.6195	Ave		0.6135				16.5		30.0			
Tetrachloroethene	0.4608 0.5800	0.5591 0.4743	0.5158 0.4541	0.4993 0.4368	0.5078 0.4107	Ave		0.4899				10.9		30.0			
Dibromochloromethane	0.5205 0.6579	0.5975 0.5766	0.5283 0.5695	0.5320 0.5258	0.5765 0.5191	Ave		0.5604				7.9		30.0			
1,2-Dibromoethane (EDB)	0.3031 0.4656	0.4617 0.3858	0.4008 0.4156	0.4106 0.3971	0.4579 0.4140	Ave		0.4112				11.6		30.0			
Chlorobenzene	0.5750 0.7382	0.8076 0.6105	0.6533 0.6536	0.6883 0.6151	0.7337 0.6467	Lin1	0.0247	0.6406							0.9980		0.9900
n-Nonane	+++++ 0.9780	+++++ 0.8197	+++++ 0.8059	0.6416 0.7239	0.7626 0.6805	Ave		0.7732				14.3		30.0			
Ethylbenzene	0.7969 1.1412	1.1980 0.9282	0.9669 0.9623	1.0376 0.9764	1.1652 0.9704	Lin1	0.0307	0.9750							0.9980		0.9900
m,p-Xylene	0.6566 0.8853	0.9445 0.7231	0.7638 0.7350	0.8148 0.7401	0.9112 0.7067	Lin1	0.0911	0.7297							0.9970		0.9900
o-Xylene	0.6582 0.9099	0.9774 0.7377	0.7799 0.7544	0.8209 0.7655	0.9127 0.7419	Ave		0.8059				12.2		30.0			
Styrene	0.4688 0.7192	0.6913 0.5901	0.5739 0.6023	0.6133 0.6072	0.6951 0.5834	Ave		0.6145				11.9		30.0			
Bromoform	0.4237 0.5899	0.5454 0.4978	0.4619 0.5282	0.4821 0.4919	0.5572 0.4918	Ave		0.5070				9.6		30.0			
Isopropylbenzene	0.2390 0.3414	0.3502 0.2759	0.2929 0.2804	0.2993 0.2853	0.3369 0.2755	Ave		0.2977				11.8		30.0			
1,1,2,2-Tetrachloroethane	0.4666 0.6280	0.6338 0.5071	0.5290 0.5186	0.5640 0.5331	0.6134 0.5167	Ave		0.5510				10.3		30.0			
1,2,3-Trichloropropane	0.1335 0.1873	0.1925 0.1530	0.1565 0.1552	0.1678 0.1585	0.1860 0.1552	Ave		0.1645				11.4		30.0			
N-Propylbenzene	1.1438 1.5427	1.6086 1.2465	1.3068 1.2555	1.3755 1.2789	1.5376 1.2120	Ave		1.3508				11.8		30.0			
n-Decane	0.5605 0.8854	0.6790 0.7130	0.5752 0.7299	0.6417 0.6977	0.8004 0.6619	Ave		0.6945				14.0		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

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 9	LVL 5 LVL 10		B	M1	M2								
4-Ethyltoluene	+++++ 0.3976	+++++ 0.3137	0.3301 0.3178	0.3537 0.3212	0.3995 0.3141	Ave		0.3435				10.6		30.0			
2-Chlorotoluene	+++++ 0.3151	+++++ 0.2550	0.2690 0.2581	0.2869 0.2556	0.3131 0.2433	Ave		0.2745				10.0		30.0			
1,3,5-Trimethylbenzene	+++++ 0.5382	+++++ 0.4383	0.4641 0.4350	0.4886 0.4423	0.5311 0.4087	Ave		0.4683				10.0		30.0			
alpha-Methylstyrene	0.3705 0.5682	0.5313 0.4602	0.4379 0.4675	0.4691 0.4760	0.5395 0.4541	Ave		0.4774				11.9		30.0			
tert-Butylbenzene	+++++ 0.7294	+++++ 0.5913	0.5899 0.5814	0.7008 0.6172	0.7504 0.5866	Ave		0.6434				11.1		30.0			
1,2,4-Trimethylbenzene	0.4177 0.5246	0.5538 0.4267	0.4593 0.4286	0.4725 0.4278	0.5205 0.4118	Ave		0.4643				11.1		30.0			
sec-Butylbenzene	+++++ 1.5278	+++++ 1.2357	1.2902 1.2362	1.3807 1.2600	1.5074 1.1900	Ave		1.3285				9.7		30.0			
4-Isopropyltoluene	+++++ 1.3401	+++++ 1.0875	1.1334 1.0847	1.2057 1.0994	1.3199 1.0301	Ave		1.1626				9.9		30.0			
1,3-Dichlorobenzene	+++++ 0.7718	+++++ 0.6304	0.6890 0.6409	0.7073 0.6320	0.7726 0.6066	Ave		0.6813				9.5		30.0			
1,4-Dichlorobenzene	+++++ 0.7819	+++++ 0.6394	0.7034 0.6504	0.7053 0.6406	0.7708 0.6112	Ave		0.6879				9.2		30.0			
Benzyl chloride	+++++ 1.3019	+++++ 1.0797	+++++ 1.1038	1.1881 1.1388	1.2733 1.0923	Ave		1.1683				7.6		30.0			
Undecane	0.6952 0.9290	0.8901 0.7566	0.7457 0.7576	0.7676 0.7456	0.8348 0.6849	Ave		0.7807				10.2		30.0			
n-Butylbenzene	0.5191 0.6888	0.7057 0.5626	0.5859 0.5636	0.6146 0.5724	0.6880 0.5328	Ave		0.6034				11.3		30.0			
1,2-Dichlorobenzene	+++++ 0.7113	+++++ 0.5793	0.6250 0.5819	0.6663 0.5797	0.7136 0.5524	Ave		0.6262				10.1		30.0			
Dodecane	0.6380 0.8613	0.8428 0.7251	0.7229 0.7278	0.7585 0.7282	0.7702 0.6199	Ave		0.7395				10.3		30.0			
1,2,4-Trichlorobenzene	0.4984 0.6106	0.6003 0.5173	0.5123 0.5125	0.5379 0.5142	0.5831 0.4745	Ave		0.5361				8.6		30.0			
Hexachlorobutadiene	0.4033 0.4970	0.5156 0.4110	0.4270 0.4070	0.4440 0.3978	0.4846 0.3734	Ave		0.4361				10.9		30.0			
Naphthalene	+++++ 1.4457	+++++ 1.2442	1.2601 1.2374	1.3084 1.2561	1.3977 1.1672	Ave		1.2896				7.1		30.0			
1,2,3-Trichlorobenzene	+++++ 0.5770	+++++ 0.4904	0.4988 0.4942	0.5225 0.4977	0.5562 0.4532	Ave		0.5113				7.7		30.0			
1,2-Dichloroethane-d4 (Surr)	1.4246 1.4634	1.3787 1.5088	1.4297 1.6258	1.4430 1.6462	1.4249 1.7981	Ave		1.5143				8.8		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

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 9	LVL 5 LVL 10		B	M1	M2								
Toluene-d8 (Surr)	0.6247 0.6446	0.6445 0.6789	0.6239 0.6516	0.6308 0.6430	0.6255 0.6367	Ave		0.6404				2.6		30.0			
4-Bromofluorobenzene (Surr)	0.7331 0.7091	0.7386 0.7542	0.7387 0.7464	0.7163 0.7503	0.7156 0.7461	Ave		0.7348				2.2		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-207197/3	18020603.D
Level 2	IC 320-207197/4	18020604.D
Level 3	IC 320-207197/5	18020605.D
Level 4	IC 320-207197/6	18020606.D
Level 5	IC 320-207197/7	18020607.D
Level 6	IC 320-207197/8	18020608.D
Level 7	ICIS 320-207197/9	18020609.D
Level 8	IC 320-207197/10	18020610.D
Level 9	IC 320-207197/11	18020611.D
Level 10	IC 320-207197/12	18020612.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propylene	CBM	Ave	3554 170440	5926 301808	6978 574698	13032 861512	30791 1366024	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chlorodifluoromethane	CBM	Ave	4608 293085	8476 476259	10678 963677	20748 1422046	51804 2414691	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dichlorodifluoromethane	CBM	Ave	6004 397683	11485 668591	14720 1328350	27832 2013932	70770 3366960	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	4825 302280	8600 483016	10861 987202	21200 1446822	53378 2427132	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chloromethane	CBM	Ave	3205 180518	5560 294826	6835 594793	13279 888048	32926 1543773	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Butane	CBM	Ave	5351 322884	9633 512128	12229 1055602	23279 1547765	57594 2618510	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Vinyl chloride	CBM	Ave	2727 177464	4887 288876	6476 589034	12286 866322	31651 1497156	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,3-Butadiene	CBM	Ave	2817 163694	4778 260192	6111 525952	11788 765866	28828 1328489	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromomethane	CBM	Ave	2250 139924	3990 226762	5031 456220	9817 674215	24759 1190691	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chloroethane	CBM	Ave	1181 92053	2334 144651	3174 295887	6306 443847	16014 783202	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Vinyl bromide	CBM	Ave	2251 145365	3954 232322	5263 467256	10221 690621	25632 1232269	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Trichlorofluoromethane	CBM	Ave	6938 416555	12240 666632	15536 1328477	29443 1957396	74768 3465113	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Pentane	CBM	Ave	6424 388380	11582 621535	14588 1248956	28026 1838764	70478 3192199	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethyl ether	CBM	Lin1	+++++ 57211	1858 80848	1991 180381	4550 257975	12963 540099	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Acrolein	CBM	Lin1	+++++ 55511	1479 83912	1857 183376	4209 275570	11614 572734	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Acetone	CBM	Lin1	+++++ 170944	+++++ 282314	+++++ 556791	+++++ 901543	46218 1737217	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 60.0	2.00 100
Freon-113	CBM	Ave	4964 321528	9145 506868	12198 1010047	23269 1520760	58906 2730458	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1-Dichloroethene	CBM	Ave	4752 294643	8595 457187	10672 899369	20474 1351664	52363 2423195	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Acetonitrile	CBM	Lin1	+++++ 115829	3593 175591	4451 388184	8976 589630	26241 1182314	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
tert-Butyl alcohol (TBA)	CBM	Ave	4754 353912	9733 614540	12070 1295343	25738 2059014	67436 3532241	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Allyl chloride	CBM	Ave	3971 263933	7396 418576	9477 835206	18672 1245048	49483 2306035	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Methylene Chloride	CBM	Ave	+++++ 223458	+++++ 349384	9370 696747	17105 1040241	42909 1911634	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
Carbon disulfide	CBM	Ave	6324 371232	11470 604742	14105 1202029	26610 1801951	66305 3208341	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Acrylonitrile	CBM	Ave	894 105296	2791 155839	3303 356350	7549 545918	22495 1117200	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Methyl-t-Butyl Ether (MTBE)	CBM	Lin1	5026 312170	10676 505369	12558 1022885	26365 1575370	73761 3098363	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
trans-1,2-Dichloroethene	CBM	Ave	3304 226606	6491 356625	8530 718943	16337 1086563	41771 2009153	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
C6 Range	CBM	Ave	17421 1123794	32532 1767027	42664 3618436	81981 5351074	207735 9694966	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Hexane	CBM	Ave	3385 211845	6077 332052	8044 680889	15336 1000036	39821 1809071	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1-Dichloroethane	CBM	Ave	4507 296798	8438 469721	10680 988574	21305 1470243	55727 2713709	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Vinyl acetate	CBM	Ave	4262 354934	10929 599870	12876 1220482	28970 2008436	83537 3806892	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Butanone (MEK)	CBM	Ave	+++++ 58702	1297 99826	1631 200870	4234 326355	12938 615205	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
cis-1,2-Dichloroethene	CBM	Ave	+++++ 164791	4664 262383	5959 550061	11577 818759	30242 1484901	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethyl acetate	CBM	Ave	3332 291694	9195 483044	10262 970520	24110 1575830	68887 2951622	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chloroform	CBM	Ave	4972 314974	9208 517853	11829 1071006	22895 1600691	59229 2883226	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Tetrahydrofuran	CBM	Lin1	2270 172859	5666 278143	6343 568681	14148 903482	39715 1754846	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1-Trichloroethane	CBM	Ave	5407 334970	9918 538817	12413 1134201	24651 1694643	64238 3047706	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Cyclohexane	DFBZ	Ave	3479 210312	6492 330351	8256 694448	15763 1037894	39555 1887753	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2,2,4-Trimethylpentane	DFBZ	Ave	14500 948446	27412 1597719	33871 3221524	67201 4688506	174116 8212574	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Carbon tetrachloride	DFBZ	Ave	5456 328457	9988 525286	12987 1099516	24892 1640077	63993 2917307	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Butanol	CBM	Ave	+++++ 158998	+++++ 286096	+++++ 623158	10149 987467	28954 1711000	+++++ 10.0	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00 100
1,2-Dichloroethane	DFBZ	Ave	+++++ 191978	5665 343511	6866 766879	14282 1026737	38840 2076475	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Benzene	DFBZ	Ave	+++++ 467698	13735 808868	16387 1728487	33643 2463593	89988 4650615	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Heptane	DFBZ	Ave	+++++ 384353	11111 644629	14232 1297180	28250 1914796	71380 3337931	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Trichloroethene	DFBZ	Ave	4504 258302	7247 425916	9401 850618	17379 1217362	43911 2083069	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
NMOC as Hexane	CBM	Ave	1923197 88717244	3217273 148709252	3712490 308634627	7042322 466570976	18079971 815472735	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichloropropane	DFBZ	Ave	+++++ 57713	1691 96090	1968 213875	4287 318252	12137 622603	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Methyl methacrylate	DFBZ	Ave	+++++ 135169	3415 229394	4287 482632	9699 785254	29216 1448138	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromodichloromethane	DFBZ	Ave	+++++ 225174	6220 387168	7919 783346	16002 1170274	41177 2020841	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dibromomethane	DFBZ	Ave	+++++ 203921	5905 347861	7581 684548	14827 1011615	38109 1696847	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,4-Dioxane	DFBZ	Ave	1247 101069	2725 168268	3302 349073	7594 558002	20717 976738	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	5289 410837	11128 681003	13502 1409986	29915 2237385	85062 3933369	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Total VOC as Hexane (C6-C12)	CBM	Ave	3508576 97350318	4939309 162857537	5489361 336209101	9084125 507909219	21071703 882244738	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
cis-1,3-Dichloropropene	DFBZ	Ave	3317 259440	7708 458955	8994 1054474	19095 1445256	52929 2895664	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Octane	CBZd5	Ave	8320 524933	14110 909689	18122 1798722	35514 2629857	93980 4425317	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Toluene	DFBZ	Ave	5716 463488	15066 775890	16702 1686604	36055 2559257	100893 4775470	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
trans-1,3-Dichloropropene	CBZd5	Ave	2945 216832	6451 373640	7374 833803	16058 1243360	45396 2372478	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,2-Trichloroethane	CBZd 5	Ave	2086 155020	4933 266014	5898 580224	11786 871547	33773 1630415	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Hexanone	CBZd 5	Ave	4099 407442	10053 680179	12471 1419755	28309 2253547	81298 3896492	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Tetrachloroethene	CBZd 5	Ave	5012 310389	9119 529396	11587 1047734	22553 1542095	57677 2583044	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dibromochloromethane	CBZd 5	Ave	5662 352118	9745 643661	11867 1313998	24030 1856153	65479 3264813	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dibromoethane (EDB)	CBZd 5	Ave	3297 249171	7530 430675	9003 958810	18548 1401680	52002 2603905	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chlorobenzene	CBZd 5	Lin1	6255 395077	13171 681502	14676 1507885	31091 2171303	83330 4067402	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Nonane	CBZd 5	Ave	+++++ 523404	+++++ 915028	+++++ 1859410	28978 2555402	86612 4280228	+++++ 10.0	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00 100
Ethylbenzene	CBZd 5	Lin1	8669 610772	19538 1036065	21721 2220150	46869 3446755	132336 6103467	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
m,p-Xylene	CBZd 5	Lin1	14285 947611	30808 1614312	34317 3391366	73608 5225414	206976 8889993	0.400 20.0	0.592 40.0	0.800 80.0	1.60 120	4.00 200
o-Xylene	CBZd 5	Ave	7160 486966	15940 823493	17519 1740576	37079 2702206	103661 4666491	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Styrene	CBZd 5	Ave	5099 384892	11275 658719	12892 1389528	27701 2143552	78942 3669363	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromoform	CBZd 5	Ave	4609 315705	8895 555604	10377 1218613	21776 1736592	63288 3093363	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Isopropylbenzene	CBZd 5	Ave	2600 182712	5711 307923	6579 646956	13521 1007139	38264 1732679	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	5076 336098	10336 566048	11884 1196493	25474 1881956	69664 3249627	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2,3-Trichloropropane	CBZd 5	Ave	1452 100233	3139 170773	3516 358109	7579 559445	21128 975878	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
N-Propylbenzene	CBZd 5	Ave	12442 825657	26234 1391331	29356 2896532	62129 4514457	174632 7623238	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Decane	CBZd 5	Ave	6097 473881	11074 795881	12921 1683941	28985 2462835	90904 4163348	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
4-Ethyltoluene	CBZd 5	Ave	+++++ 212788	+++++ 350133	7415 733322	15974 1133815	45376 1975467	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Chlorotoluene	CBZd 5	Ave	+++++ 168661	+++++ 284686	6043 595402	12959 902234	35556 1530446	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,3,5-Trimethylbenzene	CBZd 5	Ave	+++++ 288018	+++++ 489204	10425 1003686	22068 1561490	60323 2570569	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
alpha-Methylstyrene	CBZd 5	Ave	4030 304080	8665 513723	9837 1078499	21190 1680447	61270 2856313	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1 Analy Batch No.: 207197

SDG No.:

Instrument ID: ATMS2 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2018 16:08 Calibration End Date: 02/06/2018 23:01 Calibration ID: 37837

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
tert-Butylbenzene	CBZd 5	Ave	+++++ 390391	+++++ 660020	13251 1341263	31654 2178612	85227 3689273	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2,4-Trimethylbenzene	CBZd 5	Ave	4544 280742	9032 476277	10317 988871	21342 1510307	59119 2589798	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
sec-Butylbenzene	CBZd 5	Ave	+++++ 817698	+++++ 1379276	28984 2852002	62366 4447831	171205 7484469	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
4-Isopropyltoluene	CBZd 5	Ave	+++++ 717216	+++++ 1213913	25461 2502611	54459 3880809	149905 6479163	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,3-Dichlorobenzene	CBZd 5	Ave	+++++ 413082	+++++ 703630	15478 1478589	31947 2230994	87747 3815372	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,4-Dichlorobenzene	CBZd 5	Ave	+++++ 418485	+++++ 713683	15802 1500673	31856 2261338	87541 3844270	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
Benzyl chloride	CBZd 5	Ave	+++++ 557409	+++++ 964150	+++++ 2037354	42933 3216089	115691 5496043	+++++ 8.00	+++++ 16.0	+++++ 32.0	0.640 48.0	1.60 80.0
Undecane	CBZd 5	Ave	7562 497195	14517 844552	16751 1747855	34670 2632148	94814 4307599	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Butylbenzene	CBZd 5	Ave	5647 368651	11509 628006	13161 1300192	27762 2020681	78138 3351162	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichlorobenzene	CBZd 5	Ave	+++++ 380679	+++++ 646625	14039 1342599	30098 2046265	81047 3474647	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
Dodecane	CBZd 5	Ave	6940 460958	13745 809414	16239 1679022	34259 2570574	87470 3899023	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2,4-Trichlorobenzene	CBZd 5	Ave	5421 326792	9791 577399	11508 1182315	24296 1815309	66224 2984444	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Hexachlorobutadiene	CBZd 5	Ave	4387 265996	8409 458739	9592 938892	20057 1404146	55038 2348835	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Naphthalene	CBZd 5	Ave	+++++ 773742	+++++ 1388808	28307 2854931	59098 4434013	158743 7341536	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2,3-Trichlorobenzene	CBZd 5	Ave	+++++ 308802	+++++ 547384	11206 1140139	23601 1757005	63174 2850408	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichloroethane-d4 (Surr)	CBM	Ave	80076 79931	78015 81476	83760 90243	82941 96142	82925 113551	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00
Toluene-d8 (Surr)	DFBZ	Ave	147355 144696	146243 148320	152283 154675	151618 159554	154071 171779	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	159481 151793	162779 168376	165944 172199	161779 176583	162541 187712	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 1 0.005ppbv	MS12120411.D
Level 2	IC 320-198233/6	MS12120412.D
Level 3	IC 320-198233/7	MS12120413.D
Level 4	IC 320-198233/8	MS12120414.D
Level 5	IC 320-198233/9	MS12120415.D
Level 6	IC 320-198233/10	MS12120416.D
Level 7	IC 320-198233/11	MS12120417.D
Level 8	ICIS 320-198233/12	MS12120418.D
Level 9	IC 320-198233/13	MS12120419.D
Level 10	IC 320-198233/14	MS12120420.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 9	LVL 5 LVL 10		B	M1	M2								
Propene	+++++ 1.2922	+++++ 1.1541	+++++ 1.1134	+++++ 1.0930	1.3286 1.0155	Ave		1.1661				10.4		30.0			
Dichlorodifluoromethane	+++++ 4.6250	+++++ 4.1985	4.4925 3.8807	3.8776 3.3151	2.8095 2.5315	Ave		3.7163				20.6		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 3.0695	+++++ 2.7812	3.1028 2.7334	2.9464 2.6811	2.5441 2.0667	Ave		2.7406				12.2		30.0			
Chloromethane	+++++ 1.5676	+++++ 1.3794	+++++ 1.3219	+++++ 1.3076	1.5162 1.2098	Ave		1.3837				9.8		30.0			
Vinyl chloride	+++++ 1.6201	+++++ 1.4978	1.7405 1.4549	1.6860 1.4611	1.5851 1.4083	Ave		1.5567				7.7		30.0			
1,3-Butadiene	+++++ 1.3598	+++++ 1.2363	+++++ 1.1560	1.1888 1.1490	1.2723 1.0845	Ave		1.2067				7.5		30.0			
Bromomethane	+++++ 1.1493	+++++ 1.0563	1.1622 1.0391	1.1626 1.0327	1.0820 1.0032	Ave		1.0859				5.9		30.0			
Chloroethane	+++++ 0.7118	+++++ 0.6497	0.7127 0.6376	0.6846 0.6318	0.6737 0.6049	Ave		0.6633				5.9		30.0			
Trichlorofluoromethane	+++++ 4.3389	4.2703 3.8910	4.0320 3.7659	4.0181 3.7045	3.9891 3.5297	Ave		3.9488				6.6		30.0			
Isopropyl alcohol	+++++ 3.3943	3.3118 3.0580	3.1138 2.9987	2.9657 2.9627	2.9766 2.7186	Ave		3.0556				6.6		30.0			
Acrolein	+++++ 0.5120	+++++ 0.4721	0.5071 0.4689	0.5152 0.4684	0.4712 0.4538	Ave		0.4836				4.9		30.0			
Acetone	+++++ 2.5666	+++++ 2.2057	+++++ 2.1380	+++++ 2.0883	2.7079 1.9276	Ave		2.2723				13.2		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 2.7721	2.7625 2.4866	2.6149 2.4270	2.5373 2.4063	2.5435 2.3205	Ave		2.5412				6.1		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

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 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloroethene	+++++ 1.1848	1.2224 1.0772	1.1540 1.0559	1.0703 1.0650	1.0615 1.0423	Ave		1.1037				5.9		30.0			
Methylene Chloride	+++++ 1.9529	+++++ 1.7038	+++++ 1.6030	+++++ 1.5569	1.9918 1.4501	Ave		1.7097				12.8		30.0			
Acrylonitrile	+++++ 1.1683	1.0824 1.0779	1.0745 1.1127	1.0827 1.0856	1.0891 1.0286	Ave		1.0891				3.4		30.0			
Methyl-t-Butyl Ether (MTBE)	+++++ 3.5186	3.4572 3.2507	3.1659 3.3161	3.1338 3.4276	3.1129 3.3830	Ave		3.3073				4.5		30.0			
trans-1,2-Dichloroethene	+++++ 1.2323	1.1632 1.1187	1.1074 1.1011	1.0648 1.0985	1.0577 1.0737	Ave		1.1130				4.9		30.0			
Hexane	+++++ 1.7850	1.7286 1.5819	1.5843 1.5472	1.5070 1.5458	1.4842 1.4543	Ave		1.5798				7.0		30.0			
1,1-Dichloroethane	+++++ 2.7345	2.6387 2.4624	2.5299 2.3894	2.4395 2.3747	2.4790 2.2641	Ave		2.4791				5.7		30.0			
Vinyl acetate	+++++ 3.3548	2.9456 3.1807	2.8506 3.2338	2.7963 3.3312	2.8856 3.2152	Ave		3.0882				7.0		30.0			
2-Butanone (MEK)	+++++ 0.5867	+++++ 0.5384	0.5482 0.5376	0.5138 0.5527	0.5197 0.5389	Ave		0.5420				4.1		30.0			
cis-1,2-Dichloroethene	+++++ 1.2002	1.0447 1.0927	1.0882 1.1034	1.0180 1.1044	1.0555 1.0844	Ave		1.0879				4.7		30.0			
Ethyl acetate	+++++ 3.3471	2.9241 3.0350	2.8890 2.9972	2.8459 2.9832	2.8591 2.8089	Ave		2.9655				5.5		30.0			
Chloroform	+++++ 2.9904	2.7464 2.6752	2.7986 2.6323	2.6889 2.5767	2.6875 2.4596	Ave		2.6950				5.5		30.0			
Tetrahydrofuran	+++++ 1.5250	1.3840 1.4022	1.3650 1.4068	1.3513 1.4277	1.3247 1.3486	Ave		1.3928				4.3		30.0			
1,1,1-Trichloroethane	+++++ 3.3157	3.2149 2.9547	3.1028 2.8527	2.9850 2.8238	2.9662 2.6953	Ave		2.9901				6.5		30.0			
Cyclohexane	+++++ 0.3047	0.3127 0.2923	0.2887 0.2942	0.2862 0.3038	0.2813 0.3003	Ave		0.2960				3.4		30.0			
Carbon tetrachloride	+++++ 0.5618	0.5999 0.5025	0.5593 0.4900	0.5460 0.4810	0.5327 0.4668	Ave		0.5267				8.4		30.0			
1,2-Dichloroethane	+++++ 0.5197	0.4848 0.4533	0.4600 0.4390	0.4552 0.4328	0.4593 0.4144	Ave		0.4576				6.7		30.0			
Benzene	+++++ 0.8850	+++++ 0.7879	0.8536 0.7751	0.8185 0.7776	0.7939 0.7631	Ave		0.8068				5.3		30.0			
n-Heptane	+++++ 0.5416	0.4909 0.5089	0.4438 0.5158	0.4428 0.5233	0.4566 0.5054	Ave		0.4921				7.4		30.0			
Trichloroethene	+++++ 0.3738	0.3321 0.3135	0.3321 0.3113	0.3181 0.3131	0.3152 0.3074	Ave		0.3241				6.3		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

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 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichloropropane	+++++ 0.1650	0.1503 0.1451	0.1490 0.1401	0.1420 0.1377	0.1462 0.1326	Ave		0.1454				6.4		30.0			
Bromodichloromethane	0.4896 0.4875	0.4460 0.4115	0.4109 0.3947	0.4012 0.3887	0.4020 0.3773	Ave		0.4210				9.5		30.0			
1,4-Dioxane	+++++ 0.1732	+++++ 0.1691	0.1608 0.1750	0.1532 0.1747	0.1594 0.1670	Ave		0.1665				4.8		30.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.6492	0.5345 0.6497	0.5655 0.6651	0.5525 0.6847	0.5778 0.6617	Ave		0.6156				9.3		30.0			
cis-1,3-Dichloropropene	+++++ 0.4563	0.4266 0.4221	0.4072 0.4239	0.3962 0.4348	0.4044 0.4333	Ave		0.4228				4.3		30.0			
Toluene	+++++ 1.0674	1.0435 0.9499	0.9895 0.9390	0.9562 0.9492	0.9536 0.9387	Ave		0.9763				4.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.5713	0.5253 0.5294	0.5471 0.5323	0.5331 0.5424	0.5265 0.5369	Ave		0.5383				2.7		30.0			
1,1,2-Trichloroethane	+++++ 0.4104	0.4060 0.3574	0.3747 0.3591	0.3717 0.3536	0.3707 0.3432	Ave		0.3719				6.2		30.0			
2-Hexanone	+++++ 0.2888	+++++ 0.3721	0.3105 0.3932	0.2976 0.4142	0.3193 0.4161	Ave		0.3515				15.1		30.0			
Tetrachloroethene	+++++ 0.6256	+++++ 0.5518	0.5807 0.5334	0.5577 0.5320	0.5641 0.5219	Ave		0.5584				6.0		30.0			
Dibromochloromethane	+++++ 0.7113	0.6898 0.6250	0.6538 0.6145	0.6354 0.6155	0.6596 0.6044	Ave		0.6455				5.6		30.0			
1,2-Dibromoethane (EDB)	0.6827 0.5857	0.5908 0.5312	0.5575 0.5254	0.5387 0.5301	0.5408 0.5237	Ave		0.5607				8.8		30.0			
Chlorobenzene	+++++ 0.9424	0.9517 0.8405	0.9038 0.8284	0.8758 0.8275	0.8716 0.8127	Ave		0.8727				5.8		30.0			
Ethylbenzene	+++++ 1.5719	1.4625 1.4585	1.3935 1.4595	1.3713 1.4742	1.4142 1.4516	Ave		1.4508				4.0		30.0			
m,p-Xylene	1.2704 1.2146	1.0871 1.1491	1.0389 1.1626	1.0164 1.1812	1.0691 1.1657	Ave		1.1355				7.1		30.0			
o-Xylene	+++++ 1.1403	1.0551 1.0827	1.0195 1.1192	0.9855 1.1587	1.0172 1.1540	Ave		1.0814				6.0		30.0			
Styrene	0.7806 0.7857	0.7189 0.7797	0.6911 0.8136	0.6797 0.8463	0.7395 0.8522	Ave		0.7687				7.9		30.0			
Bromoform	+++++ 0.6783	+++++ 0.6202	0.7673 0.6152	0.6939 0.6263	0.6628 0.6248	Ave		0.6611				7.9		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8085	0.7669 0.7396	0.7591 0.7314	0.7478 0.7332	0.7613 0.7170	Ave		0.7516				3.6		30.0			
1,2,3-Trichloropropane	+++++ 0.2410	+++++ 0.2232	+++++ 0.2172	0.2593 0.2174	0.2432 0.2109	Ave		0.2303				7.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

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 9	LVL 5 LVL 10		B	M1	M2								
4-Ethyltoluene	0.4393 0.4387	0.4075 0.4277	0.3889 0.4343	0.3851 0.4388	0.4072 0.4629	Ave		0.4230				5.9		30.0			
1,3,5-Trimethylbenzene	+++++ 0.6202	0.5530 0.5976	0.5396 0.6009	0.5372 0.6157	0.5713 0.6125	Ave		0.5831				5.7		30.0			
1,2,4-Trimethylbenzene	+++++ 0.5707	0.5705 0.5709	0.4814 0.5801	0.5008 0.6005	0.5378 0.5972	Ave		0.5566				7.5		30.0			
1,3-Dichlorobenzene	+++++ 0.8389	0.8659 0.8195	0.8680 0.8397	0.8427 0.8681	0.8934 0.8595	Ave		0.8551				2.6		30.0			
1,4-Dichlorobenzene	+++++ 0.7323	0.8208 0.7810	0.8307 0.8063	0.8017 0.8415	0.8033 0.8459	Ave		0.8071				4.3		30.0			
Benzyl chloride	0.9387 0.9653	1.0387 1.2264	1.1737 1.3107	1.1319 1.4189	1.1622 1.4502	Ave		1.1817				14.8		30.0			
1,2-Dichlorobenzene	+++++ 0.7525	0.8106 0.7666	0.8173 0.7766	0.7939 0.7968	0.8081 0.7845	Ave		0.7897				2.7		30.0			
1,2,4-Trichlorobenzene	+++++ 0.3947	0.5937 0.5244	0.6150 0.5340	0.5960 0.5372	0.5902 0.5153	Ave		0.5445				12.3		30.0			
Hexachlorobutadiene	+++++ 0.8316	0.9110 0.7522	0.9255 0.7375	0.8762 0.7143	0.8860 0.6669	Ave		0.8112				11.7		30.0			
Naphthalene	1.0210 0.5687	0.9270 0.8964	1.1778 0.9496	1.0875 0.9572	1.1094 0.8870	Ave		0.9582				17.5		30.0			
1,2-Dichloroethane-d4 (Surr)	0.4412 0.4489	0.4421 0.4468	0.4462 0.4432	0.4460 0.4410	0.4482 0.4417	Ave		0.4445				0.7		30.0			
Toluene-d8 (Surr)	0.5853 0.5892	0.5852 0.5946	0.5871 0.5983	0.5894 0.6020	0.5850 0.6038	Ave		0.5920				1.2		30.0			
4-Bromofluorobenzene (Surr)	0.6557 0.7037	0.6974 0.7470	0.7230 0.7522	0.7214 0.7602	0.7266 0.7638	Ave		0.7251				4.6		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 1 0.005ppbv	MS12120411.D
Level 2	IC 320-198233/6	MS12120412.D
Level 3	IC 320-198233/7	MS12120413.D
Level 4	IC 320-198233/8	MS12120414.D
Level 5	IC 320-198233/9	MS12120415.D
Level 6	IC 320-198233/10	MS12120416.D
Level 7	IC 320-198233/11	MS12120417.D
Level 8	ICIS 320-198233/12	MS12120418.D
Level 9	IC 320-198233/13	MS12120419.D
Level 10	IC 320-198233/14	MS12120420.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propene	CBM	Ave	+++++	+++++	+++++	+++++	2408	+++++	+++++	+++++	+++++	0.100
			4702	12723	25190	52847	105942	0.200	0.600	1.20	2.50	5.00
Dichlorodifluoromethane	CBM	Ave	+++++	+++++	1639	2815	5092	+++++	+++++	0.0200	0.0400	0.100
			16829	46286	87796	160283	264091	0.200	0.600	1.20	2.50	5.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	+++++	+++++	1132	2139	4611	+++++	+++++	0.0200	0.0400	0.100
			11169	30661	61839	129630	215602	0.200	0.600	1.20	2.50	5.00
Chloromethane	CBM	Ave	+++++	+++++	+++++	+++++	2748	+++++	+++++	+++++	+++++	0.100
			5704	15207	29906	63223	126211	0.200	0.600	1.20	2.50	5.00
Vinyl chloride	CBM	Ave	+++++	+++++	635	1224	2873	+++++	+++++	0.0200	0.0400	0.100
			5895	16512	32916	70642	146915	0.200	0.600	1.20	2.50	5.00
1,3-Butadiene	CBM	Ave	+++++	+++++	+++++	863	2306	+++++	+++++	+++++	0.0400	0.100
			4948	13629	26152	55552	113141	0.200	0.600	1.20	2.50	5.00
Bromomethane	CBM	Ave	+++++	+++++	424	844	1961	+++++	+++++	0.0200	0.0400	0.100
			4182	11645	23508	49933	104659	0.200	0.600	1.20	2.50	5.00
Chloroethane	CBM	Ave	+++++	+++++	260	497	1221	+++++	+++++	0.0200	0.0400	0.100
			2590	7163	14425	30546	63103	0.200	0.600	1.20	2.50	5.00
Trichlorofluoromethane	CBM	Ave	+++++	793	1471	2917	7230	+++++	0.0100	0.0200	0.0400	0.100
			15788	42896	85199	179111	368231	0.200	0.600	1.20	2.50	5.00
Isopropyl alcohol	CBM	Ave	+++++	615	1136	2153	5395	+++++	0.0100	0.0200	0.0400	0.100
			12351	33713	67842	143245	283613	0.200	0.600	1.20	2.50	5.00
Acrolein	CBM	Ave	+++++	+++++	185	374	854	+++++	+++++	0.0200	0.0400	0.100
			1863	5205	10608	22645	47343	0.200	0.600	1.20	2.50	5.00
Acetone	CBM	Ave	+++++	+++++	+++++	+++++	4908	+++++	+++++	+++++	+++++	0.100
			9339	24316	48369	100970	201094	0.200	0.600	1.20	2.50	5.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	+++++	513	954	1842	4610	+++++	0.0100	0.0200	0.0400	0.100
			10087	27413	54908	116347	242081	0.200	0.600	1.20	2.50	5.00
1,1-Dichloroethene	CBM	Ave	+++++	227	421	777	1924	+++++	0.0100	0.0200	0.0400	0.100
			4311	11875	23888	51494	108736	0.200	0.600	1.20	2.50	5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Methylene Chloride	CBM	Ave	+++++ 7106	+++++ 18783	+++++ 36265	+++++ 75278	3610 151280	+++++ 0.200	+++++ 0.600	+++++ 1.20	+++++ 2.50	0.100 5.00
Acrylonitrile	CBM	Ave	+++++ 4251	201 11883	392 25174	786 52490	1974 107308	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Methyl-t-Butyl Ether (MTBE)	CBM	Ave	+++++ 12803	642 35837	1155 75021	2275 165723	5642 352921	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
trans-1,2-Dichloroethene	CBM	Ave	+++++ 4484	216 12333	404 24910	773 53111	1917 112012	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Hexane	CBM	Ave	+++++ 6495	321 17440	578 35004	1094 74739	2690 151712	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1-Dichloroethane	CBM	Ave	+++++ 9950	490 27147	923 54056	1771 114816	4493 236198	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Vinyl acetate	CBM	Ave	+++++ 12207	547 35065	1040 73161	2030 161065	5230 335419	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
2-Butanone (MEK)	CBM	Ave	+++++ 2135	+++++ 5935	200 12162	373 26721	942 56224	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 4367	194 12046	397 24963	739 53400	1913 113129	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Ethyl acetate	CBM	Ave	+++++ 12179	543 33459	1054 67807	2066 144238	5182 293034	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Chloroform	CBM	Ave	+++++ 10881	510 29492	1021 59552	1952 124585	4871 256592	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Tetrahydrofuran	CBM	Ave	+++++ 5549	257 15458	498 31826	981 69028	2401 140689	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,1-Trichloroethane	CBM	Ave	+++++ 12065	597 32574	1132 64538	2167 136529	5376 281182	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Cyclohexane	DFBZ	Ave	+++++ 4933	258 14458	465 29777	923 65856	2257 139047	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Carbon tetrachloride	DFBZ	Ave	+++++ 9095	495 24851	901 49591	1761 104282	4275 216096	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloroethane	DFBZ	Ave	+++++ 8413	400 22422	741 44429	1468 93828	3686 191879	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Benzene	DFBZ	Ave	+++++ 14328	+++++ 38968	1375 78456	2640 168570	6371 353290	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
n-Heptane	DFBZ	Ave	+++++ 8768	405 25172	715 52205	1428 113455	3664 233998	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Trichloroethene	DFBZ	Ave	+++++ 6051	274 15506	535 31505	1026 67883	2529 142338	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 2672	124 7179	240 14184	458 29860	1173 61406	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Bromodichloromethane	DFBZ	Ave	204 7892	368 20354	662 39950	1294 84266	3226 174685	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DFBZ	Ave	+++++ 2804	+++++ 8363	259 17712	494 37868	1279 77320	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	+++++ 10511	441 32136	911 67315	1782 148426	4637 306348	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 7387	352 20879	656 42904	1278 94251	3245 200613	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Toluene	DFBZ	Ave	+++++ 17281	861 46980	1594 95046	3084 205768	7652 434589	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	+++++ 7687	361 21969	733 45320	1433 99566	3512 211932	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,2-Trichloroethane	CBZd 5	Ave	+++++ 5522	279 14833	502 30573	999 64904	2473 135475	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
2-Hexanone	CBZd 5	Ave	+++++ 3886	+++++ 15443	416 33478	800 76028	2130 164226	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Tetrachloroethene	CBZd 5	Ave	+++++ 8418	+++++ 22901	778 45415	1499 97649	3763 205985	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Dibromochloromethane	CBZd 5	Ave	+++++ 9572	474 25937	876 52317	1708 112982	4400 238573	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	230 7881	406 22047	747 44737	1448 97313	3607 206714	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Chlorobenzene	CBZd 5	Ave	+++++ 12681	654 34882	1211 70533	2354 151900	5814 320780	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Ethylbenzene	CBZd 5	Ave	+++++ 21152	1005 60529	1867 124271	3686 270617	9433 572953	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
m,p-Xylene	CBZd 5	Ave	856 32687	1494 95377	2784 197971	5464 433658	14263 920243	0.0100 0.400	0.0200 1.20	0.0400 2.40	0.0800 5.00	0.200 10.0
o-Xylene	CBZd 5	Ave	+++++ 15344	725 44934	1366 95294	2649 212690	6785 455514	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Styrene	CBZd 5	Ave	263 10573	494 32358	926 69269	1827 155356	4933 336379	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Bromoform	CBZd 5	Ave	+++++ 9128	+++++ 25737	1028 52379	1865 114959	4421 246635	+++++ 0.200	+++++ 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	+++++ 10879	527 30693	1017 62272	2010 134585	5078 283001	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2,3-Trichloropropane	CBZd 5	Ave	+++++ 3243	+++++ 9262	+++++ 18496	697 39911	1622 83262	+++++ 0.200	+++++ 0.600	+++++ 1.20	0.0400 2.50	0.100 5.00
4-Ethyltoluene	CBZd 5	Ave	148 5903	280 17749	521 36981	1035 80547	2716 182717	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	+++++ 8346	380 24799	723 51159	1444 113030	3811 241750	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	+++++ 7680	392 23694	645 49389	1346 110235	3587 235725	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00

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

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1 Analy Batch No.: 198233

SDG No.:

Instrument ID: ATMS12 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2017 21:34 Calibration End Date: 12/05/2017 05:26 Calibration ID: 36636

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,3-Dichlorobenzene	CBZd5	Ave	+++++ 11289	595 34012	1163 71499	2265 159360	5959 339252	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,4-Dichlorobenzene	CBZd5	Ave	+++++ 9854	564 32414	1113 68654	2155 154474	5358 333892	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Benzyl chloride	CBZd5	Ave	253 10391	571 40719	1258 89281	2434 208365	6202 457936	0.00400 0.160	0.00800 0.480	0.0160 0.960	0.0320 2.00	0.0800 4.00
1,2-Dichlorobenzene	CBZd5	Ave	+++++ 10126	557 31813	1095 66126	2134 146273	5390 309662	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2,4-Trichlorobenzene	CBZd5	Ave	+++++ 5311	408 21762	824 45470	1602 98618	3937 203394	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Hexachlorobutadiene	CBZd5	Ave	+++++ 11190	626 31219	1240 62796	2355 131117	5910 263227	+++++ 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
Naphthalene	CBZd5	Ave	344 7653	637 37203	1578 80851	2923 175713	7400 350119	0.00500 0.200	0.0100 0.600	0.0200 1.20	0.0400 2.50	0.100 5.00
1,2-Dichloroethane-d4 (Surr)	DFBZ	Ave	73528 72673	72956 73659	71880 74762	71917 76489	71927 81803	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00
Toluene-d8 (Surr)	DFBZ	Ave	97538 95385	96561 98036	94582 100925	95051 104401	93884 111824	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00
4-Bromofluorobenzene (Surr)	CBZd5	Ave	88371 94695	95852 103343	96869 106748	96958 111644	96939 120595	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00	2.00 2.00

Curve Type Legend:
Ave = Average ISTD

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-207617/3	MS9020803.D
Level 2	IC 320-207617/4	MS9020804.D
Level 3	IC 320-207617/5	MS9020805.D
Level 4	IC 320-207617/6	MS9020806.D
Level 5	IC 320-207617/7	MS9020807.D
Level 6	IC 320-207617/8	MS9020808.D
Level 7	ICIS 320-207617/9	MS9020809.D
Level 8	IC 320-207617/10	MS9020810.D
Level 9	IC 320-207617/11	MS9020811.D
Level 10	IC 320-207617/12	MS9020812.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 9	LVL 5 LVL 10		B	M1	M2								
Propylene	1.0099 1.0069	1.0639 0.9177	0.9344 0.8319	0.8640 0.8034	0.8365 0.8133	Ave		0.9082				10.3		30.0			
Chlorodifluoromethane	2.2476 2.3059	2.2091 2.1001	2.1319 1.9193	1.9568 1.8540	1.9343 1.8455	Ave		2.0504				8.3		30.0			
Dichlorodifluoromethane	3.3753 3.5062	3.2927 3.2004	3.2072 2.7996	2.8334 2.6553	2.6794 2.5181	Ave		3.0068				11.6		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.3175 2.3346	2.2135 2.0757	2.1500 1.8716	1.9793 1.8121	1.9441 1.8220	Ave		2.0520				9.6		30.0			
Chloromethane	+++++ 1.2710	+++++ 1.1131	1.3248 0.9691	1.1097 0.9305	1.1063 0.9244	Ave		1.0936				13.7		30.0			
n-Butane	2.2500 2.2963	2.1864 1.9988	2.1942 1.7609	1.9253 1.6808	1.9360 1.6930	Ave		1.9922				11.7		30.0			
Vinyl chloride	1.4613 1.4778	1.3709 1.3022	1.3648 1.1541	1.2132 1.1037	1.2265 1.1059	Ave		1.2780				10.8		30.0			
1,3-Butadiene	+++++ 1.1621	+++++ 1.0131	1.2266 0.8907	1.0185 0.8542	1.0058 0.8508	Ave		1.0027				13.8		30.0			
Bromomethane	1.0964 1.1054	1.0821 0.9982	1.0229 0.9032	0.9598 0.8936	0.9374 0.9021	Ave		0.9901				8.4		30.0			
Chloroethane	0.6535 0.6659	0.6438 0.5956	0.6144 0.5447	0.5636 0.5345	0.5732 0.5389	Ave		0.5928				8.3		30.0			
Vinyl bromide	1.0189 1.0567	1.0017 0.9539	0.9552 0.8716	0.9242 0.8572	0.9025 0.8661	Ave		0.9408				7.3		30.0			
Trichlorofluoromethane	3.1691 3.1943	3.0388 2.9111	2.8856 2.7015	2.7386 2.6561	2.7158 2.6928	Ave		2.8704				7.1		30.0			
n-Pentane	2.1094 2.2153	2.0946 2.0002	2.0104 1.8340	1.9225 1.7907	1.8743 1.7956	Ave		1.9647				7.4		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

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 9	LVL 5 LVL 10		B	M1	M2								
Ethyl ether	0.5520 0.6478	0.6364 0.5851	0.5586 0.5349	0.5362 0.5300	0.5470 0.5396	Ave		0.5668				7.5		30.0			
Acrolein	0.5069 0.5685	0.4642 0.5158	0.5326 0.4756	0.4765 0.4641	0.4709 0.4694	Ave		0.4944				7.1		30.0			
Acetone	+++++ 1.8570	+++++ 1.6902	+++++ 1.5674	1.8181 1.5463	1.6681 1.5527	Ave		1.6714				7.6		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5583 2.5488	2.4653 2.2972	2.3457 2.1159	2.1990 2.0776	2.1640 2.1045	Ave		2.2876				8.1		30.0			
1,1-Dichloroethene	2.1328 2.1415	2.0201 1.9396	1.9910 1.7974	1.8022 1.7647	1.8089 1.7798	Ave		1.9178				7.7		30.0			
Acetonitrile	1.0671 0.9477	0.9070 0.8655	0.8926 0.7928	0.8267 0.7750	0.8094 0.7766	Ave		0.8660				10.6		30.0			
tert-Butyl alcohol (TBA)	3.4779 3.3556	3.2581 3.0741	3.1839 2.8582	2.9886 2.8088	2.9744 2.8488	Ave		3.0828				7.4		30.0			
Allyl chloride	1.5386 1.6237	1.5179 1.4760	1.4542 1.3767	1.3454 1.3482	1.3524 1.3677	Ave		1.4401				6.8		30.0			
Methylene Chloride	+++++ 1.5361	1.6819 1.3995	1.5318 1.2818	1.3896 1.2487	1.3229 1.2488	Ave		1.4046				10.7		30.0			
Carbon disulfide	+++++ 2.6823	+++++ 2.4154	3.0386 2.1992	2.5246 2.1466	2.3563 2.1580	Ave		2.4401				12.5		30.0			
Acrylonitrile	1.0703 0.9642	0.9728 0.8832	0.9576 0.8106	0.8424 0.7912	0.8242 0.7931	Ave		0.8910				10.7		30.0			
Methyl-t-Butyl Ether (MTBE)	3.3391 3.6122	3.3318 3.3063	3.2834 3.0862	3.0432 3.0093	2.9661 3.0511	Ave		3.2029				6.4		30.0			
trans-1,2-Dichloroethene	1.6819 1.7405	1.6488 1.5895	1.5920 1.4712	1.4631 1.4455	1.4763 1.4625	Ave		1.5571				6.9		30.0			
C6 Range	8.0699 7.8784	7.5968 7.1992	7.3287 6.6172	6.5768 6.4614	6.5911 6.4987	Ave		7.0818				8.7		30.0			
n-Hexane	1.3810 1.4340	1.3484 1.3172	1.3435 1.2148	1.1975 1.1814	1.1867 1.1882	Ave		1.2793				7.5		30.0			
1,1-Dichloroethane	2.3493 2.4399	2.3394 2.2286	2.2645 2.0642	2.0839 2.0204	2.0325 2.0541	Ave		2.1877				7.1		30.0			
Vinyl acetate	3.3993 3.6479	3.2526 3.3997	3.1621 3.1813	2.9480 3.1162	2.9415 3.1223	Ave		3.2171				6.8		30.0			
2-Butanone (MEK)	0.6511 0.6612	0.5801 0.6057	0.5920 0.5632	0.5477 0.5490	0.5462 0.5528	Ave		0.5849				7.3		30.0			
cis-1,2-Dichloroethene	1.3152 1.3257	1.2467 1.2144	1.2171 1.1215	1.1585 1.0981	1.1260 1.1189	Ave		1.1942				6.9		30.0			
Ethyl acetate	2.5515 2.7389	2.5775 2.5292	2.5369 2.3647	2.3439 2.2967	2.2912 2.3050	Ave		2.4535				6.3		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

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 9	LVL 5 LVL 10		B	M1	M2								
Chloroform	2.5890 2.6282	2.5236 2.4237	2.4503 2.2439	2.2573 2.1977	2.2408 2.2209	Ave		2.3775				6.9		30.0			
Tetrahydrofuran	1.4695 1.4984	1.4175 1.3743	1.3483 1.2779	1.2822 1.2384	1.2637 1.2429	Ave		1.3413				7.1		30.0			
1,1,1-Trichloroethane	2.8606 2.8356	2.6863 2.6117	2.6255 2.4447	2.4246 2.4085	2.3936 2.4520	Ave		2.5743				6.9		30.0			
Cyclohexane	0.4173 0.4323	0.4314 0.3975	0.3959 0.3632	0.3749 0.3595	0.3677 0.3597	Ave		0.3899				7.5		30.0			
2,2,4-Trimethylpentane	1.6906 1.7219	1.6242 1.5984	1.5956 1.4772	1.4850 1.4544	1.4598 1.4488	Ave		1.5556				6.6		30.0			
Carbon tetrachloride	0.7034 0.7191	0.6821 0.6714	0.6581 0.6269	0.6076 0.6227	0.6011 0.6266	Ave		0.6519				6.3		30.0			
n-Butanol	+++++ 1.4298	+++++ 1.3435	1.4089 1.2645	1.3404 1.2480	1.3564 1.2619	Ave		1.3317				5.1		30.0			
1,2-Dichloroethane	0.4653 0.4704	0.4680 0.4432	0.4430 0.4135	0.4075 0.4082	0.3990 0.4085	Ave		0.4326				6.6		30.0			
Benzene	1.0261 0.9779	0.9768 0.9071	0.9335 0.8348	0.8599 0.8236	0.8370 0.8285	Ave		0.9005				8.3		30.0			
n-Heptane	0.5736 0.6018	0.5513 0.5580	0.5390 0.5191	0.5003 0.5080	0.5009 0.5068	Ave		0.5359				6.5		30.0			
Trichloroethene	0.4408 0.4325	0.4316 0.4017	0.3960 0.3742	0.3721 0.3681	0.3690 0.3707	Ave		0.3957				7.5		30.0			
1,2-Dichloropropane	0.1551 0.1536	0.1543 0.1452	0.1400 0.1360	0.1343 0.1339	0.1305 0.1350	Ave		0.1418				6.7		30.0			
Methyl methacrylate	0.3608 0.3626	0.3363 0.3371	0.3255 0.3181	0.2954 0.3121	0.3029 0.3163	Ave		0.3267				6.9		30.0			
Bromodichloromethane	0.4857 0.4729	0.4420 0.4492	0.4286 0.4261	0.4005 0.4205	0.3889 0.4199	Ave		0.4334				6.9		30.0			
Dibromomethane	0.4466 0.4151	0.4284 0.3905	0.3742 0.3650	0.3591 0.3607	0.3543 0.3653	Ave		0.3859				8.5		30.0			
1,4-Dioxane	0.2701 0.2567	0.2468 0.2428	0.2447 0.2292	0.2342 0.2264	0.2236 0.2297	Ave		0.2404				6.2		30.0			
NMOC as Hexane	1501.3 991.79	1284.5 916.18	1139.5 848.01	975.18 804.93	875.68 749.35	Ave		7.0818				8.7		30.0			
Total VOC as Hexane (C6-C12)	1501.3 991.79	1284.5 916.18	1139.5 848.01	975.18 804.93	875.68 749.35	Ave		7.0818				8.7		30.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.9329	+++++ 0.8680	0.9314 0.8166	0.8680 0.7991	0.8638 0.7960	Ave		0.8595				6.3		30.0			
cis-1,3-Dichloropropene	0.6303 0.6393	0.5794 0.6026	0.5777 0.5658	0.5389 0.5573	0.5353 0.5627	Ave		0.5789				6.1		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

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 9	LVL 5 LVL 10		B	M1	M2								
n-Octane	1.3394 1.2528	1.2480 1.1681	1.2026 1.0891	1.0919 1.0630	1.0080 1.0407	Ave		1.1504				9.4		30.0			
Toluene	1.3535 1.2226	1.2191 1.1518	1.1746 1.0850	1.0776 1.0716	1.0541 1.0824	Ave		1.1492				8.3		30.0			
trans-1,3-Dichloropropene	0.9113 0.8512	0.8024 0.8020	0.7908 0.7574	0.7183 0.7517	0.6768 0.7471	Ave		0.7809				8.6		30.0			
1,1,2-Trichloroethane	0.6613 0.5928	0.5682 0.5552	0.5790 0.5184	0.5386 0.5148	0.4923 0.5127	Ave		0.5533				9.0		30.0			
2-Hexanone	+++++ 0.7734	+++++ 0.7198	0.8003 0.6782	0.7432 0.6715	0.7124 0.6586	Ave		0.7197				7.0		30.0			
Tetrachloroethene	0.9344 0.8713	0.8320 0.8179	0.8300 0.7686	0.7767 0.7672	0.7193 0.7635	Ave		0.8081				7.7		30.0			
Dibromochloromethane	1.1370 1.1172	1.0148 1.0593	1.0072 1.0004	0.9399 0.9968	0.8940 0.9852	Ave		1.0152				7.3		30.0			
1,2-Dibromoethane (EDB)	0.9943 0.9040	0.8744 0.8542	0.8653 0.7991	0.8027 0.7916	0.7387 0.7910	Ave		0.8415				8.7		30.0			
Chlorobenzene	1.5557 1.4238	1.4161 1.3539	1.4019 1.2990	1.2833 1.2709	1.1777 1.2175	Ave		1.3400				8.4		30.0			
n-Nonane	1.3754 1.3461	1.2568 1.2757	1.1949 1.1790	1.1115 1.1293	1.0550 1.0253	Ave		1.1949				9.9		30.0			
Ethylbenzene	2.7053 2.4196	2.3958 2.2951	2.3310 2.1761	2.1789 2.1662	2.0075 2.1404	Ave		2.2816				8.6		30.0			
m,p-Xylene	2.1684 1.9370	1.8594 1.8693	1.8245 1.8026	1.6736 1.7609	1.5556 1.5898	Ave		1.8041				9.9		30.0			
o-Xylene	2.1258 1.9490	1.8685 1.8636	1.8269 1.8025	1.6757 1.7998	1.5839 1.7344	Ave		1.8230				8.2		30.0			
Styrene	1.6185 1.5005	1.4549 1.4488	1.3936 1.4047	1.3239 1.4108	1.2528 1.3624	Ave		1.4171				7.0		30.0			
Bromoform	1.1959 1.2243	1.0388 1.1856	1.0719 1.1397	1.0027 1.1372	0.9546 1.0929	Ave		1.1044				8.0		30.0			
Isopropylbenzene	0.7539 0.7167	0.7092 0.6718	0.6575 0.6373	0.6390 0.6362	0.6015 0.6198	Ave		0.6643				7.3		30.0			
1,1,2,2-Tetrachloroethane	1.4462 1.3564	1.3133 1.2600	1.2601 1.1909	1.1897 1.1884	1.1167 1.1598	Ave		1.2481				8.0		30.0			
1,2,3-Trichloropropane	0.4381 0.3876	0.3977 0.3653	0.3809 0.3476	0.3587 0.3463	0.3241 0.3411	Ave		0.3688				9.0		30.0			
n-Decane	1.6565 1.6915	1.5289 1.5928	1.4125 1.5073	1.3452 1.4736	1.2848 1.3645	Ave		1.4858				9.1		30.0			
N-Propylbenzene	3.8722 3.3515	3.4527 3.1899	3.2365 3.0791	2.9849 3.0278	2.7605 2.7701	Ave		3.1725				10.5		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

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 9	LVL 5 LVL 10		B	M1	M2								
4-Ethyltoluene	+++++ 0.8593	+++++ 0.7777	0.8197 0.7628	0.7715 0.7749	0.7199 0.7378	Ave		0.7779				5.7		30.0			
1,3,5-Trimethylbenzene	1.2800 1.1923	1.1618 1.1335	1.0951 1.0959	1.0333 1.0430	0.9622 0.9441	Ave		1.0941				9.5		30.0			
2-Chlorotoluene	0.7299 0.6705	0.6652 0.6305	0.6433 0.6000	0.5885 0.5748	0.5497 0.5072	Ave		0.6160				10.6		30.0			
alpha-Methylstyrene	1.2274 1.2178	1.1303 1.1628	1.1115 1.1314	1.0282 1.1306	0.9853 1.0983	Ave		1.1224				6.7		30.0			
tert-Butylbenzene	1.8477 1.6997	1.6624 1.6020	1.5698 1.5820	1.4501 1.5390	1.3582 1.4843	Ave		1.5795				8.7		30.0			
1,2,4-Trimethylbenzene	+++++ 1.2136	+++++ 1.1068	+++++ 1.0784	1.0317 1.0464	0.9892 1.0143	Ave		1.0686				7.0		30.0			
sec-Butylbenzene	3.7050 3.4834	3.3125 3.2731	3.1662 3.1442	2.9807 3.0883	2.7694 2.8252	Ave		3.1748				9.0		30.0			
4-Isopropyltoluene	3.0830 3.0631	2.8287 2.8896	2.6906 2.7770	2.6008 2.7049	2.4161 2.4813	Ave		2.7535				8.1		30.0			
1,3-Dichlorobenzene	1.6535 1.5547	1.5558 1.4596	1.4237 1.4132	1.3286 1.4067	1.2384 1.3652	Ave		1.4399				8.5		30.0			
1,4-Dichlorobenzene	1.7087 1.5595	1.5407 1.4828	1.4134 1.4354	1.3445 1.4281	1.2420 1.3806	Ave		1.4536				8.9		30.0			
Benzyl chloride	2.8167 2.9808	2.7207 2.9025	2.5472 2.8794	2.4197 2.8709	2.2725 2.7517	Ave		2.7162				8.5		30.0			
Undecane	2.2220 2.0618	2.0749 1.9439	1.8556 1.8089	1.6127 1.7562	1.4934 1.5832	Ave		1.8413				12.9		30.0			
n-Butylbenzene	1.6621 1.6832	1.5872 1.5843	1.4620 1.5103	1.3922 1.4818	1.3116 1.3849	Ave		1.5060				8.2		30.0			
1,2-Dichlorobenzene	1.5802 1.5017	1.4566 1.4159	1.3876 1.3601	1.2981 1.3531	1.2043 1.3121	Ave		1.3870				7.8		30.0			
Dodecane	1.7637 2.2915	1.6113 2.2516	1.5447 2.0338	1.3358 +++++	1.3796 +++++	Lin1	-0.215	2.1208							0.9930		0.9900
1,2,4-Trichlorobenzene	1.4092 1.6377	1.3717 1.5740	1.2509 1.4890	1.2353 1.3914	1.2149 +++++	Lin1	-0.048	1.4655							0.9960		0.9900
Hexachlorobutadiene	1.3816 1.5251	1.3288 1.4350	1.2606 1.3488	1.1768 1.2279	1.1255 +++++	Ave		1.3122				9.7		30.0			
Naphthalene	3.9710 3.9712	3.9048 3.8204	3.4733 3.6479	3.4392 3.4138	3.3699 +++++	Ave		3.6679				6.9		30.0			
1,2,3-Trichlorobenzene	1.5171 1.5824	1.3973 1.5094	1.2988 1.4158	1.1824 1.1679	1.1671 +++++	Ave		1.3598				11.9		30.0			
1,2-Dichloroethane-d4 (Surr)	1.4248 1.5488	1.4306 1.6260	1.4453 1.7552	1.4466 1.8437	1.4632 2.0762	Ave		1.6060				13.7		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

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 9	LVL 5 LVL 10		B	M1	M2								
Toluene-d8 (Surr)	0.4986 0.5030	0.5022 0.5120	0.4953 0.5197	0.4936 0.5184	0.5055 0.5370	Ave		0.5085				2.6		30.0			
4-Bromofluorobenzene (Surr)	0.5177 0.5122	0.5295 0.5278	0.5147 0.5247	0.5231 0.5322	0.5341 0.5423	Ave		0.5258				1.8		30.0			

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

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-207617/3	MS9020803.D
Level 2	IC 320-207617/4	MS9020804.D
Level 3	IC 320-207617/5	MS9020805.D
Level 4	IC 320-207617/6	MS9020806.D
Level 5	IC 320-207617/7	MS9020807.D
Level 6	IC 320-207617/8	MS9020808.D
Level 7	ICIS 320-207617/9	MS9020809.D
Level 8	IC 320-207617/10	MS9020810.D
Level 9	IC 320-207617/11	MS9020811.D
Level 10	IC 320-207617/12	MS9020812.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propylene	CBM	Ave	3712 178238	5493 338328	6613 642576	12139 968779	28393 1644600	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chlorodifluoromethane	CBM	Ave	8261 408166	11406 774200	15088 1482528	27494 2235618	65653 3731977	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dichlorodifluoromethane	CBM	Ave	12406 620628	17001 1179835	22698 2162530	39810 3201748	90945 5092171	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	8518 413251	11429 765207	15216 1445712	27810 2185069	65985 3684423	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chloromethane	CBM	Ave	+++++ 224979	+++++ 410344	9376 748564	15592 1121974	37550 1869309	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Butane	CBM	Ave	8270 406469	11289 736863	15529 1360201	27051 2026738	65713 3423592	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Vinyl chloride	CBM	Ave	5371 261592	7078 480059	9659 891462	17046 1330898	41630 2236412	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,3-Butadiene	CBM	Ave	+++++ 205711	+++++ 373484	8681 688050	14310 1030015	34140 1720418	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromomethane	CBM	Ave	4030 195668	5587 367980	7239 697659	13485 1077531	31818 1824305	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chloroethane	CBM	Ave	2402 117865	3324 219585	4348 420752	7919 644500	19454 1089801	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Vinyl bromide	CBM	Ave	3745 187038	5172 351665	6760 673279	12986 1033675	30634 1751527	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Trichlorofluoromethane	CBM	Ave	11648 565430	15690 1073178	20422 2086745	38479 3202786	92181 5445481	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Pentane	CBM	Ave	7753 392124	10815 737390	14228 1416680	27012 2159194	63617 3631169	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethyl ether	CBM	Ave	2029 114669	3286 215689	3953 413212	7534 639023	18565 1091165	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Acrolein	CBM	Ave	1863 100630	2397 190141	3769 367364	6695 559568	15982 949301	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Acetone	CBM	Ave	+++++ 328708	+++++ 623095	+++++ 1210768	25545 1864584	56620 3139975	+++++ 10.0	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00 100
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	9403 451163	12729 846882	16601 1634455	30897 2505148	73451 4255873	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1-Dichloroethene	CBM	Ave	7839 379066	10430 715058	14091 1388416	25321 2127846	61396 3599127	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Acetonitrile	CBM	Ave	3922 167759	4683 319083	6317 612396	11615 934464	27474 1570406	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
tert-Butyl alcohol (TBA)	CBM	Ave	12783 593977	16822 1133283	22533 2207785	41991 3386918	100958 5760969	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Allyl chloride	CBM	Ave	5655 287409	7837 544149	10292 1063429	18903 1625663	45903 2765747	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Methylene Chloride	CBM	Ave	+++++ 271908	8684 515948	10841 990119	19525 1505696	44902 2525282	+++++ 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Carbon disulfide	CBM	Ave	+++++ 474799	+++++ 890458	21505 1698764	35471 2588371	79977 4364035	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
Acrylonitrile	CBM	Ave	3934 170673	5023 325597	6777 626184	11836 954002	27976 1603756	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Methyl-t-Butyl Ether (MTBE)	CBM	Ave	12273 639397	17203 1218898	23237 2383903	42758 3628585	100676 6169929	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
trans-1,2-Dichloroethene	CBM	Ave	6182 308086	8513 585987	11267 1136419	20557 1742984	50107 2957498	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
C6 Range	CBM	Ave	29661 1394562	39224 2654016	51867 5111432	92407 7791150	223716 13141893	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Hexane	CBM	Ave	5076 253830	6962 485582	9508 938366	16826 1424550	40280 2402903	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1-Dichloroethane	CBM	Ave	8635 431892	12079 821578	16026 1594492	29279 2436188	68988 4153810	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Vinyl acetate	CBM	Ave	12494 645719	16794 1253333	22379 2457431	41421 3757580	99842 6313953	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Butanone (MEK)	CBM	Ave	2393 117044	2995 223294	4190 435014	7695 662042	18538 1117869	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
cis-1,2-Dichloroethene	CBM	Ave	4834 234659	6437 447713	8614 866283	16277 1324055	38218 2262764	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethyl acetate	CBM	Ave	9378 484817	13308 932409	17954 1826616	32933 2769352	77768 4661163	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chloroform	CBM	Ave	9516 465217	13030 893506	17341 1733304	31716 2650029	76056 4491237	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Tetrahydrofuran	CBM	Ave	5401 265232	7319 506627	9542 987132	18016 1493308	42894 2513391	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1-Trichloroethane	CBM	Ave	10514 501928	13870 962832	18581 1888418	34067 2904239	81244 4958457	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Cyclohexane	DFBZ	Ave	6157 312729	8987 590852	11365 1132317	21309 1736228	50858 2935681	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2,2,4-Trimethylpentane	DFBZ	Ave	24945 1245635	33834 2375911	45802 4605413	84414 7023359	201907 11823232	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Carbon tetrachloride	DFBZ	Ave	10379 520241	14208 997990	18892 1954391	34537 3006796	83136 5113767	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Butanol	CBM	Ave	+++++ 253097	+++++ 495305	9971 976742	18833 1504795	46038 2551766	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichloroethane	DFBZ	Ave	6865 340297	9749 658718	12717 1288973	23162 1970996	55188 3333623	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Benzene	DFBZ	Ave	15140 707461	20348 1348328	26796 2602560	48878 3977044	115769 6760601	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Heptane	DFBZ	Ave	8463 435387	11485 829475	15473 1618411	28441 2452998	69280 4135680	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Trichloroethene	DFBZ	Ave	6504 312891	8991 597107	11366 1166506	21153 1777490	51041 3025366	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichloropropane	DFBZ	Ave	2288 111126	3214 215869	4020 423884	7635 646614	18056 1102021	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Methyl methacrylate	DFBZ	Ave	5324 262324	7006 501041	9344 991688	16794 1507222	41898 2580818	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromodichloromethane	DFBZ	Ave	7167 342103	9207 667653	12303 1328397	22764 2030548	53792 3426303	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dibromomethane	DFBZ	Ave	6589 300281	8925 580512	10742 1137826	20412 1741892	49005 2981432	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,4-Dioxane	DFBZ	Ave	3985 185729	5142 360924	7023 714488	13315 1093096	30932 1874127	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
NMOC as Hexane	CBM	Ave	5517935 175556317	6632132 337754971	8064574 655042911	13701603 970588656	29722408 1515360365	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Total VOC as Hexane (C6-C12)	CBM	Ave	5517935 175556317	6632132 337754971	8064574 655042911	13701603 970588656	29722408 1515360365	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	+++++ 674847	+++++ 1290152	26737 2545969	49342 3858769	119473 6495663	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
cis-1,3-Dichloropropene	DFBZ	Ave	9300 462477	12070 895714	16584 1763910	30632 2691130	74037 4592326	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Octane	CBZd5	Ave	13188 610262	17733 1178159	23104 2319732	41505 3492956	97105 5891885	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Toluene	DFBZ	Ave	19971 884429	25396 1712090	33718 3382641	61256 5174511	145800 8833240	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
trans-1,3-Dichloropropene	CBZd5	Ave	8973 414627	11402 808876	15193 1613225	27303 2470104	65197 4229517	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,2-Trichloroethane	CBZd 5	Ave	6511 288735	8074 559933	11123 1104082	20472 1691559	47425 2902804	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Hexanone	CBZd 5	Ave	+++++ 376751	+++++ 725988	15375 1444484	28250 2206613	68631 3728429	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
Tetrachloroethene	CBZd 5	Ave	9200 424435	11822 824925	15945 1637031	29525 2521006	69298 4322769	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dibromochloromethane	CBZd 5	Ave	11195 544207	14420 1068387	19350 2130755	35727 3275429	86130 5577684	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dibromoethane (EDB)	CBZd 5	Ave	9790 440358	12424 861519	16623 1702100	30514 2601268	71165 4477981	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Chlorobenzene	CBZd 5	Ave	15318 693541	20122 1365500	26932 2766723	48781 4176438	113456 6893057	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Nonane	CBZd 5	Ave	13543 655701	17858 1286702	22956 2511205	42252 3711014	101636 5804482	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Ethylbenzene	CBZd 5	Ave	26637 1178622	34043 2314852	44783 4635021	82823 7118327	193399 12117801	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
m,p-Xylene	CBZd 5	Ave	42702 1887092	52843 3770650	70105 7678694	127234 11573029	299727 18001264	0.400 20.0	0.592 40.0	0.800 80.0	1.60 120	4.00 200
o-Xylene	CBZd 5	Ave	20931 949362	26550 1879607	35097 3839119	63697 5914451	152588 9819432	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Styrene	CBZd 5	Ave	15936 730882	20673 1461245	26774 2992021	50323 4635885	120693 7713315	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Bromoform	CBZd 5	Ave	11775 596355	14761 1195791	20593 2427472	38113 3736993	91969 6187676	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Isopropylbenzene	CBZd 5	Ave	7423 349134	10077 677582	12632 1357382	24291 2090573	57951 3508937	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	14240 660696	18661 1270820	24209 2536543	45222 3905231	107580 6565955	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2,3-Trichloropropane	CBZd 5	Ave	4314 188802	5651 368449	7318 740347	13634 1138132	31224 1931396	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Decane	CBZd 5	Ave	16310 823927	21725 1606517	27136 3210530	51134 4842398	123778 7724844	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
N-Propylbenzene	CBZd 5	Ave	38127 1632552	49061 3217366	62179 6558225	113461 9949764	265938 15682518	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
4-Ethyltoluene	CBZd 5	Ave	+++++ 418562	+++++ 784352	15748 1624723	29327 2546260	69356 4176943	+++++ 10.0	+++++ 20.0	0.400 40.0	0.800 60.0	2.00 100
1,3,5-Trimethylbenzene	CBZd 5	Ave	12603 580756	16509 1143200	21038 2334295	39277 3427253	92699 5345179	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
2-Chlorotoluene	CBZd 5	Ave	7187 326625	9452 635955	12358 1277949	22369 1888788	52957 2871373	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
alpha-Methylstyrene	CBZd 5	Ave	12085 593207	16061 1172835	21353 2409746	39085 3715160	94919 6218236	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100

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

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1 Analy Batch No.: 207617

SDG No.:

Instrument ID: ATMS9 GC Column: RTX-Volatil ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:17 Calibration End Date: 02/09/2018 00:05 Calibration ID: 37846

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
tert-Butylbenzene	CBZd 5	Ave	18193 827932	23622 1615806	30158 3369466	55120 5057375	130845 8403280	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2,4-Trimethylbenzene	CBZd 5	Ave	+++++ 591173	+++++ 1116287	+++++ 2296963	39217 3438705	95298 5742190	+++++ 10.0	+++++ 20.0	+++++ 40.0	0.800 60.0	2.00 100
sec-Butylbenzene	CBZd 5	Ave	36481 1696766	47069 3301246	60827 6696949	113301 10148391	266796 15994924	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
4-Isopropyltoluene	CBZd 5	Ave	30356 1492066	40194 2914422	51691 5914765	98863 8888415	232762 14047863	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,3-Dichlorobenzene	CBZd 5	Ave	16281 757295	22107 1472193	27352 3009981	50504 4622484	119304 7728963	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,4-Dichlorobenzene	CBZd 5	Ave	16824 759620	21892 1495538	27153 3057330	51109 4693028	119654 7816409	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Benzyl chloride	CBZd 5	Ave	22187 1161581	30928 2341954	39148 4906297	73582 7547294	175145 12462982	0.160 8.00	0.237 16.0	0.320 32.0	0.640 48.0	1.60 80.0
Undecane	CBZd 5	Ave	21879 1004329	29483 1960593	35650 3852750	61302 5771100	143872 8962977	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
n-Butylbenzene	CBZd 5	Ave	16366 819899	22553 1597932	28088 3216808	52919 4869311	126358 7840738	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
1,2-Dichlorobenzene	CBZd 5	Ave	15559 731478	20697 1428058	26658 2897004	49342 4446552	116020 7428286	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 100
Dodecane	CBZd 5	Lin1	17366 1116219	22895 2270931	29676 4331939	50776 +++++	132908 +++++	0.200 10.0	0.296 20.0	0.400 40.0	0.800 +++++	2.00 +++++
1,2,4-Trichlorobenzene	CBZd 5	Lin1	13875 797751	19491 1587518	24032 3171415	46958 4572122	117040 +++++	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 +++++
Hexachlorobutadiene	CBZd 5	Ave	13604 742881	18881 1447289	24219 2872861	44733 4035152	108433 +++++	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 +++++
Naphthalene	CBZd 5	Ave	39100 1934407	55484 3853247	66728 7769727	130732 11217911	324647 +++++	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 +++++
1,2,3-Trichlorobenzene	CBZd 5	Ave	14938 770816	19855 1522332	24952 3015491	44946 3837903	112433 +++++	0.200 10.0	0.296 20.0	0.400 40.0	0.800 60.0	2.00 +++++
1,2-Dichloroethane-d4 (Surr)	CBM	Ave	104736 109663	99819 119884	102289 135583	101627 148207	99329 167945	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00
Toluene-d8 (Surr)	DFBZ	Ave	147145 145543	141378 152205	142184 162034	140285 166881	139829 175300	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	101953 99799	101673 106469	98884 111751	99425 116582	102917 122806	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab Sample ID: CCVIS 320-206917/2 Calibration Date: 02/05/2018 11:23

Instrument ID: ATMS12 Calib Start Date: 06/28/2017 17:57

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 06/28/2017 17:57

Lab File ID: MS12020502.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	1.222	0.9611			1.20	-21.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab Sample ID: CCVIS 320-206917/2 Calibration Date: 02/05/2018 11:23

Instrument ID: ATMS12 Calib Start Date: 12/04/2017 21:34

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 12/05/2017 05:26

Lab File ID: MS12020502.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	1.166	1.566		1.61	1.20	34.3*	30.0
Dichlorodifluoromethane	Ave	3.716	4.366		1.41	1.20	17.5	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.741	2.759		1.21	1.20	0.7	30.0
Chloromethane	Ave	1.384	1.507		1.31	1.20	8.9	30.0
Vinyl chloride	Ave	1.557	1.441		1.11	1.20	-7.4	30.0
1,3-Butadiene	Ave	1.207	1.301		1.29	1.20	7.8	30.0
Bromomethane	Ave	1.086	1.084		1.20	1.20	-0.1	30.0
Chloroethane	Ave	0.6633	0.6592		1.19	1.20	-0.6	30.0
Trichlorofluoromethane	Ave	3.949	4.439		1.35	1.20	12.4	30.0
Acrolein	Ave	0.4836	0.6159		1.53	1.20	27.4	30.0
Acetone	Ave	2.272	2.709		1.43	1.20	19.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.541	2.610		1.23	1.20	2.7	30.0
1,1-Dichloroethene	Ave	1.104	1.104		1.20	1.20	0.0	30.0
Methylene Chloride	Ave	1.710	1.911		1.34	1.20	11.8	30.0
Acrylonitrile	Ave	1.089	1.152		1.27	1.20	5.8	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	3.307	3.888		1.41	1.20	17.6	30.0
trans-1,2-Dichloroethene	Ave	1.113	1.011		1.09	1.20	-9.2	30.0
Hexane	Ave	1.580	1.856		1.41	1.20	17.5	30.0
1,1-Dichloroethane	Ave	2.479	2.675		1.29	1.20	7.9	30.0
Vinyl acetate	Ave	3.088	4.350		1.69	1.20	40.9*	30.0
2-Butanone (MEK)	Ave	0.5420	0.5774		1.28	1.20	6.5	30.0
cis-1,2-Dichloroethene	Ave	1.088	1.136		1.25	1.20	4.4	30.0
Ethyl acetate	Ave	2.965	3.380		1.37	1.20	14.0	30.0
Chloroform	Ave	2.695	2.969		1.32	1.20	10.2	30.0
Tetrahydrofuran	Ave	1.393	1.713		1.48	1.20	23.0	30.0
1,1,1-Trichloroethane	Ave	2.990	3.454		1.39	1.20	15.5	30.0
Cyclohexane	Ave	0.2960	0.2978		1.21	1.20	0.6	30.0
Carbon tetrachloride	Ave	0.5267	0.6285		1.43	1.20	19.3	30.0
1,2-Dichloroethane	Ave	0.4576	0.5345		1.40	1.20	16.8	30.0
Benzene	Ave	0.8068	0.7853		1.17	1.20	-2.7	30.0
n-Heptane	Ave	0.4921	0.5922		1.44	1.20	20.3	30.0
Trichloroethene	Ave	0.3241	0.3132		1.16	1.20	-3.4	30.0
1,2-Dichloropropane	Ave	0.1454	0.1617		1.33	1.20	11.2	30.0
Bromodichloromethane	Ave	0.4210	0.4275		1.22	1.20	1.6	30.0
1,4-Dioxane	Ave	0.1665	0.1922		1.38	1.20	15.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6156	0.8340		1.63	1.20	35.5*	30.0
cis-1,3-Dichloropropene	Ave	0.4228	0.5090		1.44	1.20	20.4	30.0
Toluene	Ave	0.9763	0.9663		1.19	1.20	-1.0	30.0
trans-1,3-Dichloropropene	Ave	0.5383	0.5764		1.28	1.20	7.1	30.0
1,1,2-Trichloroethane	Ave	0.3719	0.3546		1.14	1.20	-4.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab Sample ID: CCVIS 320-206917/2 Calibration Date: 02/05/2018 11:23

Instrument ID: ATMS12 Calib Start Date: 12/04/2017 21:34

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 12/05/2017 05:26

Lab File ID: MS12020502.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	0.3515	0.4166		1.42	1.20	18.5	30.0
Tetrachloroethene	Ave	0.5584	0.5515		1.19	1.20	-1.2	30.0
Dibromochloromethane	Ave	0.6455	0.6882		1.28	1.20	6.6	30.0
1,2-Dibromoethane (EDB)	Ave	0.5607	0.5373		1.15	1.20	-4.2	30.0
Chlorobenzene	Ave	0.8727	0.8702		1.20	1.20	-0.3	30.0
Ethylbenzene	Ave	1.451	1.590		1.32	1.20	9.6	30.0
m,p-Xylene	Ave	1.136	1.291		2.73	2.40	13.7	30.0
o-Xylene	Ave	1.081	1.286		1.43	1.20	18.9	30.0
Styrene	Ave	0.7687	0.9199		1.44	1.20	19.7	30.0
Bromoform	Ave	0.6611	0.7372		1.34	1.20	11.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7516	0.7582		1.21	1.20	0.9	30.0
1,2,3-Trichloropropane	Ave	0.2303	0.2355		1.23	1.20	2.3	30.0
4-Ethyltoluene	Ave	0.4230	0.4789		1.36	1.20	13.2	30.0
1,3,5-Trimethylbenzene	Ave	0.5831	0.6926		1.43	1.20	18.8	30.0
1,2,4-Trimethylbenzene	Ave	0.5566	0.6845		1.48	1.20	23.0	30.0
1,3-Dichlorobenzene	Ave	0.8551	0.9353		1.31	1.20	9.4	30.0
1,4-Dichlorobenzene	Ave	0.8071	0.9022		1.34	1.20	11.8	30.0
Benzyl chloride	Ave	1.182	1.328		1.08	0.960	12.4	30.0
1,2-Dichlorobenzene	Ave	0.7897	0.8730		1.33	1.20	10.6	30.0
1,2,4-Trichlorobenzene	Ave	0.5445	0.6167		1.36	1.20	13.3	30.0
Hexachlorobutadiene	Ave	0.8112	1.011		1.50	1.20	24.6	30.0
Naphthalene	Ave	0.9582	1.078		1.35	1.20	12.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4445	0.5242		2.36	2.00	17.9	30.0
Toluene-d8 (Surr)	Ave	0.5920	0.5970		2.02	2.00	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7251	0.7452		2.06	2.00	2.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab Sample ID: CCVIS 320-207084/2 Calibration Date: 02/06/2018 10:31

Instrument ID: ATMS12 Calib Start Date: 06/28/2017 17:57

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 06/28/2017 17:57

Lab File ID: MS12020602.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	1.222	0.8686			1.20	-28.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab Sample ID: CCVIS 320-207084/2 Calibration Date: 02/06/2018 10:31

Instrument ID: ATMS12 Calib Start Date: 12/04/2017 21:34

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 12/05/2017 05:26

Lab File ID: MS12020602.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	1.166	1.557		1.60	1.20	33.5*	30.0
Dichlorodifluoromethane	Ave	3.716	4.260		1.38	1.20	14.6	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.741	2.772		1.21	1.20	1.2	30.0
Chloromethane	Ave	1.384	1.495		1.30	1.20	8.0	30.0
Vinyl chloride	Ave	1.557	1.476		1.14	1.20	-5.2	30.0
1,3-Butadiene	Ave	1.207	1.291		1.28	1.20	7.0	30.0
Bromomethane	Ave	1.086	1.060		1.17	1.20	-2.4	30.0
Chloroethane	Ave	0.6633	0.6488		1.17	1.20	-2.2	30.0
Trichlorofluoromethane	Ave	3.949	4.467		1.36	1.20	13.1	30.0
Acrolein	Ave	0.4836	0.6126		1.52	1.20	26.7	30.0
Acetone	Ave	2.272	2.738		1.45	1.20	20.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.541	2.582		1.22	1.20	1.6	30.0
1,1-Dichloroethene	Ave	1.104	1.095		1.19	1.20	-0.8	30.0
Methylene Chloride	Ave	1.710	1.900		1.33	1.20	11.1	30.0
Acrylonitrile	Ave	1.089	1.212		1.34	1.20	11.3	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	3.307	3.844		1.39	1.20	16.2	30.0
trans-1,2-Dichloroethene	Ave	1.113	0.9906		1.07	1.20	-11.0	30.0
Hexane	Ave	1.580	1.841		1.40	1.20	16.6	30.0
1,1-Dichloroethane	Ave	2.479	2.641		1.28	1.20	6.5	30.0
Vinyl acetate	Ave	3.088	4.312		1.68	1.20	39.6*	30.0
2-Butanone (MEK)	Ave	0.5420	0.5705		1.26	1.20	5.3	30.0
cis-1,2-Dichloroethene	Ave	1.088	1.132		1.25	1.20	4.0	30.0
Ethyl acetate	Ave	2.965	3.357		1.36	1.20	13.2	30.0
Chloroform	Ave	2.695	2.978		1.33	1.20	10.5	30.0
Tetrahydrofuran	Ave	1.393	1.687		1.45	1.20	21.1	30.0
1,1,1-Trichloroethane	Ave	2.990	3.454		1.39	1.20	15.5	30.0
Cyclohexane	Ave	0.2960	0.2918		1.18	1.20	-1.4	30.0
Carbon tetrachloride	Ave	0.5267	0.6244		1.42	1.20	18.6	30.0
1,2-Dichloroethane	Ave	0.4576	0.5441		1.43	1.20	18.9	30.0
Benzene	Ave	0.8068	0.7838		1.17	1.20	-2.9	30.0
n-Heptane	Ave	0.4921	0.5863		1.43	1.20	19.1	30.0
Trichloroethene	Ave	0.3241	0.3163		1.17	1.20	-2.4	30.0
1,2-Dichloropropane	Ave	0.1454	0.1641		1.35	1.20	12.9	30.0
Bromodichloromethane	Ave	0.4210	0.4328		1.23	1.20	2.8	30.0
1,4-Dioxane	Ave	0.1665	0.1936		1.39	1.20	16.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6156	0.8363		1.63	1.20	35.8*	30.0
cis-1,3-Dichloropropene	Ave	0.4228	0.5116		1.45	1.20	21.0	30.0
Toluene	Ave	0.9763	0.9632		1.18	1.20	-1.3	30.0
trans-1,3-Dichloropropene	Ave	0.5383	0.5799		1.29	1.20	7.7	30.0
1,1,2-Trichloroethane	Ave	0.3719	0.3494		1.13	1.20	-6.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Lab Sample ID: CCVIS 320-207084/2 Calibration Date: 02/06/2018 10:31

Instrument ID: ATMS12 Calib Start Date: 12/04/2017 21:34

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 12/05/2017 05:26

Lab File ID: MS12020602.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	0.3515	0.4124		1.41	1.20	17.3	30.0
Tetrachloroethene	Ave	0.5584	0.5516		1.19	1.20	-1.2	30.0
Dibromochloromethane	Ave	0.6455	0.6888		1.28	1.20	6.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.5607	0.5339		1.14	1.20	-4.8	30.0
Chlorobenzene	Ave	0.8727	0.8688		1.19	1.20	-0.4	30.0
Ethylbenzene	Ave	1.451	1.570		1.30	1.20	8.2	30.0
m,p-Xylene	Ave	1.136	1.288		2.72	2.40	13.4	30.0
o-Xylene	Ave	1.081	1.278		1.42	1.20	18.2	30.0
Styrene	Ave	0.7687	0.9146		1.43	1.20	19.0	30.0
Bromoform	Ave	0.6611	0.7360		1.34	1.20	11.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7516	0.7575		1.21	1.20	0.8	30.0
1,2,3-Trichloropropane	Ave	0.2303	0.2361		1.23	1.20	2.5	30.0
4-Ethyltoluene	Ave	0.4230	0.4894		1.39	1.20	15.7	30.0
1,3,5-Trimethylbenzene	Ave	0.5831	0.6975		1.44	1.20	19.6	30.0
1,2,4-Trimethylbenzene	Ave	0.5566	0.6781		1.46	1.20	21.8	30.0
1,3-Dichlorobenzene	Ave	0.8551	0.9433		1.32	1.20	10.3	30.0
1,4-Dichlorobenzene	Ave	0.8071	0.9156		1.36	1.20	13.4	30.0
Benzyl chloride	Ave	1.182	1.341		1.09	0.960	13.5	30.0
1,2-Dichlorobenzene	Ave	0.7897	0.8838		1.34	1.20	11.9	30.0
1,2,4-Trichlorobenzene	Ave	0.5445	0.6287		1.39	1.20	15.5	30.0
Hexachlorobutadiene	Ave	0.8112	1.022		1.51	1.20	26.0	30.0
Naphthalene	Ave	0.9582	1.089		1.36	1.20	13.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4445	0.5328		2.40	2.00	19.9	30.0
Toluene-d8 (Surr)	Ave	0.5920	0.5919		2.00	2.00	-0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7251	0.7538		2.08	2.00	3.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab Sample ID: CCVIS 320-208383/2 Calibration Date: 02/14/2018 11:37

Instrument ID: ATMS2 Calib Start Date: 02/06/2018 16:08

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 02/06/2018 23:01

Lab File ID: 18021402.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	1.131	0.9853		17.4	20.0	-12.9	30.0
Chlorodifluoromethane	Ave	1.787	1.780		19.9	20.0	-0.4	30.0
Dichlorodifluoromethane	Ave	2.446	2.593		21.2	20.0	6.0	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	1.827	1.930		21.1	20.0	5.6	30.0
Chloromethane	Ave	1.140	1.046		18.4	20.0	-8.2	30.0
n-Butane	Ave	1.988	1.835		18.5	20.0	-7.7	30.0
Vinyl chloride	Ave	1.077	1.080		20.1	20.0	0.3	30.0
1,3-Butadiene	Ave	1.003	0.9392		18.7	20.0	-6.3	30.0
Bromomethane	Ave	0.8527	0.8729		20.5	20.0	2.4	30.0
Chloroethane	Ave	0.5364	0.5444		20.3	20.0	1.5	30.0
Vinyl bromide	Ave	0.8749	0.8913		20.4	20.0	1.9	30.0
Trichlorofluoromethane	Ave	2.552	2.528		19.8	20.0	-0.9	30.0
n-Pentane	Ave	2.392	2.101		17.6	20.0	-12.2	30.0
Ethyl ether	Lin1		0.3028		18.4	20.0	-7.8	30.0
Acrolein	Lin1		0.2979		17.4	20.0	-13.1	30.0
Acetone	Lin1		1.035		18.8	20.0	-6.0	30.0
Freon-113	Ave	1.960	1.848		18.9	20.0	-5.7	30.0
1,1-Dichloroethene	Ave	1.769	1.622		18.3	20.0	-8.3	30.0
Acetonitrile	Lin1		0.6266		17.4	20.0	-12.9	30.0
tert-Butyl alcohol (TBA)	Ave	2.242	2.367		21.1	20.0	5.5	30.0
Allyl chloride	Ave	1.599	1.337		16.7	20.0	-16.4	30.0
Methylene Chloride	Ave	1.393	1.169		16.8	20.0	-16.1	30.0
Carbon disulfide	Ave	2.320	2.211		19.1	20.0	-4.7	30.0
Acrylonitrile	Ave	0.6299	0.5708		18.1	20.0	-9.4	30.0
Methyl-t-Butyl Ether (MTBE)	Lin1		1.915		20.0	20.0	0.0	30.0
trans-1,2-Dichloroethene	Ave	1.383	1.251		18.1	20.0	-9.5	30.0
n-Hexane	Ave	1.303	1.144		17.6	20.0	-12.2	30.0
1,1-Dichloroethane	Ave	1.830	1.674		18.3	20.0	-8.5	30.0
Vinyl acetate	Ave	2.344	2.096		17.9	20.0	-10.6	30.0
2-Butanone (MEK)	Ave	0.3694	0.3837		20.8	20.0	3.9	30.0
cis-1,2-Dichloroethene	Ave	1.025	0.9650		18.8	20.0	-5.8	30.0
Ethyl acetate	Ave	1.894	1.718		18.1	20.0	-9.3	30.0
Chloroform	Ave	1.982	1.849		18.7	20.0	-6.7	30.0
Tetrahydrofuran	Lin1		0.9860		18.3	20.0	-8.6	30.0
1,1,1-Trichloroethane	Ave	2.112	1.981		18.8	20.0	-6.2	30.0
Cyclohexane	Ave	0.3198	0.2971		18.6	20.0	-7.1	30.0
2,2,4-Trimethylpentane	Ave	1.405	1.274		18.1	20.0	-9.3	30.0
Carbon tetrachloride	Ave	0.5030	0.4202		16.7	20.0	-16.5	30.0
n-Butanol	Ave	1.062	1.008		19.0	20.0	-5.1	30.0
1,2-Dichloroethane	Ave	0.3105	0.2636		17.0	20.0	-15.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab Sample ID: CCVIS 320-208383/2 Calibration Date: 02/14/2018 11:37

Instrument ID: ATMS2 Calib Start Date: 02/06/2018 16:08

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 02/06/2018 23:01

Lab File ID: 18021402.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.7304	0.5993		16.4	20.0	-18.0	30.0
n-Heptane	Ave	0.5826	0.5049		17.3	20.0	-13.3	30.0
Trichloroethene	Ave	0.3761	0.3496		18.6	20.0	-7.0	30.0
NMOC as Hexane	Ave	612.6	545.2		1580	20.0	-11.0	30.0
1,2-Dichloropropane	Ave	0.0920	0.0858		18.7	20.0	-6.7	30.0
Methyl methacrylate	Ave	0.2109	0.2158		20.5	20.0	2.3	30.0
Bromodichloromethane	Ave	0.3402	0.3283		19.3	20.0	-3.5	30.0
Dibromomethane	Ave	0.3082	0.3033		19.7	20.0	-1.6	30.0
1,4-Dioxane	Ave	0.1505	0.1615		21.5	20.0	7.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6111	0.6182		20.2	20.0	1.2	30.0
Total VOC as Hexane (C6-C12)	Ave	794.0	597.4		1730	20.0	-24.8	30.0
cis-1,3-Dichloropropene	Ave	0.4080	0.3789		18.6	20.0	-7.1	30.0
n-Octane	Ave	0.8074	0.7337		18.2	20.0	-9.1	30.0
Toluene	Ave	0.7278	0.7164		19.7	20.0	-1.6	30.0
trans-1,3-Dichloropropene	Ave	0.3580	0.3556		19.9	20.0	-0.7	30.0
1,1,2-Trichloroethane	Ave	0.2601	0.2596		20.0	20.0	-0.2	30.0
2-Hexanone	Ave	0.6135	0.6553		21.4	20.0	6.8	30.0
Tetrachloroethene	Ave	0.4899	0.4871		19.9	20.0	-0.6	30.0
Dibromochloromethane	Ave	0.5604	0.5222		18.6	20.0	-6.8	30.0
1,2-Dibromoethane (EDB)	Ave	0.4112	0.4177		20.3	20.0	1.6	30.0
Chlorobenzene	Lin1		0.6575		20.5	20.0	2.5	30.0
n-Nonane	Ave	0.7732	0.6920		17.9	20.0	-10.5	30.0
Ethylbenzene	Lin1		1.049		21.5	20.0	7.5	30.0
m,p-Xylene	Lin1		0.8242		45.1	40.0	12.6	30.0
o-Xylene	Ave	0.8059	0.8438		20.9	20.0	4.7	30.0
Styrene	Ave	0.6145	0.6745		22.0	20.0	9.8	30.0
Bromoform	Ave	0.5070	0.5257		20.7	20.0	3.7	30.0
Isopropylbenzene	Ave	0.2977	0.3171		21.3	20.0	6.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5510	0.5744		20.8	20.0	4.2	30.0
1,2,3-Trichloropropane	Ave	0.1645	0.1748		21.2	20.0	6.2	30.0
N-Propylbenzene	Ave	1.351	1.420		21.0	20.0	5.1	30.0
4-Ethyltoluene	Ave	0.3435	0.3690		21.5	20.0	7.4	30.0
2-Chlorotoluene	Ave	0.2745	0.2919		21.3	20.0	6.3	30.0
1,3,5-Trimethylbenzene	Ave	0.4683	0.5000		21.4	20.0	6.8	30.0
alpha-Methylstyrene	Ave	0.4774	0.5275		22.1	20.0	10.5	30.0
tert-Butylbenzene	Ave	0.6434	0.6831		21.2	20.0	6.2	30.0
1,2,4-Trimethylbenzene	Ave	0.4643	0.4902		21.1	20.0	5.6	30.0
sec-Butylbenzene	Ave	1.329	1.420		21.4	20.0	6.9	30.0
4-Isopropyltoluene	Ave	1.163	1.256		21.6	20.0	8.1	30.0
1,3-Dichlorobenzene	Ave	0.6813	0.7163		21.0	20.0	5.1	30.0
1,4-Dichlorobenzene	Ave	0.6879	0.7226		21.0	20.0	5.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Lab Sample ID: CCVIS 320-208383/2 Calibration Date: 02/14/2018 11:37

Instrument ID: ATMS2 Calib Start Date: 02/06/2018 16:08

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 02/06/2018 23:01

Lab File ID: 18021402.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzyl chloride	Ave	1.168	1.136		15.6	16.0	-2.8	30.0
n-Butylbenzene	Ave	0.6034	0.6412		21.3	20.0	6.3	30.0
1,2-Dichlorobenzene	Ave	0.6262	0.6628		21.2	20.0	5.8	30.0
1,2,4-Trichlorobenzene	Ave	0.5361	0.5804		21.7	20.0	8.3	30.0
Hexachlorobutadiene	Ave	0.4361	0.4656		21.4	20.0	6.8	30.0
Naphthalene	Ave	1.290	1.351		21.0	20.0	4.8	30.0
1,2,3-Trichlorobenzene	Ave	0.5113	0.5452		21.3	20.0	6.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.514	1.446		3.82	4.00	-4.5	30.0
Toluene-d8 (Surr)	Ave	0.6404	0.6260		3.91	4.00	-2.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7348	0.7480		4.07	4.00	1.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Lab Sample ID: CCVIS 320-208998/2 Calibration Date: 02/18/2018 11:43

Instrument ID: ATMS12 Calib Start Date: 06/28/2017 17:57

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 06/28/2017 17:57

Lab File ID: MS12021802.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	1.222	1.096			1.20	-10.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Lab Sample ID: CCVIS 320-208998/2 Calibration Date: 02/18/2018 11:43

Instrument ID: ATMS12 Calib Start Date: 12/04/2017 21:34

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 12/05/2017 05:26

Lab File ID: MS12021802.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene	Ave	1.166	1.823		1.88	1.20	56.4*	30.0
Dichlorodifluoromethane	Ave	3.716	5.585		1.80	1.20	50.3*	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.741	3.462		1.52	1.20	26.3	30.0
Chloromethane	Ave	1.384	1.924		1.67	1.20	39.1*	30.0
Vinyl chloride	Ave	1.557	1.979		1.53	1.20	27.1	30.0
1,3-Butadiene	Ave	1.207	1.829		1.82	1.20	51.6*	30.0
Bromomethane	Ave	1.086	1.248		1.38	1.20	14.9	30.0
Chloroethane	Ave	0.6633	0.8023		1.45	1.20	21.0	30.0
Trichlorofluoromethane	Ave	3.949	5.383		1.64	1.20	36.3*	30.0
Acrolein	Ave	0.4836	0.6170		1.53	1.20	27.6	30.0
Acetone	Ave	2.272	3.688		1.95	1.20	62.3*	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.541	3.052		1.44	1.20	20.1	30.0
1,1-Dichloroethene	Ave	1.104	1.333		1.45	1.20	20.8	30.0
Methylene Chloride	Ave	1.710	2.480		1.74	1.20	45.0*	30.0
Acrylonitrile	Ave	1.089	1.504		1.66	1.20	38.1*	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	3.307	4.798		1.74	1.20	45.1*	30.0
trans-1,2-Dichloroethene	Ave	1.113	1.330		1.43	1.20	19.5	30.0
Hexane	Ave	1.580	2.580		1.96	1.20	63.3*	30.0
1,1-Dichloroethane	Ave	2.479	3.242		1.57	1.20	30.8*	30.0
Vinyl acetate	Ave	3.088	5.054		1.96	1.20	63.7*	30.0
2-Butanone (MEK)	Ave	0.5420	0.6871		1.52	1.20	26.8	30.0
cis-1,2-Dichloroethene	Ave	1.088	1.343		1.48	1.20	23.4	30.0
Ethyl acetate	Ave	2.965	4.630		1.87	1.20	56.1*	30.0
Chloroform	Ave	2.695	3.470		1.55	1.20	28.8	30.0
Tetrahydrofuran	Ave	1.393	2.155		1.86	1.20	54.7*	30.0
1,1,1-Trichloroethane	Ave	2.990	4.008		1.61	1.20	34.1*	30.0
Cyclohexane	Ave	0.2960	0.3608		1.46	1.20	21.9	30.0
Carbon tetrachloride	Ave	0.5267	0.6533		1.49	1.20	24.0	30.0
1,2-Dichloroethane	Ave	0.4576	0.6520		1.71	1.20	42.5*	30.0
Benzene	Ave	0.8068	0.9075		1.35	1.20	12.5	30.0
n-Heptane	Ave	0.4921	0.7386		1.80	1.20	50.1*	30.0
Trichloroethene	Ave	0.3241	0.3632		1.34	1.20	12.1	30.0
1,2-Dichloropropane	Ave	0.1454	0.1876		1.55	1.20	29.0	30.0
Bromodichloromethane	Ave	0.4210	0.5013		1.43	1.20	19.1	30.0
1,4-Dioxane	Ave	0.1665	0.2004		1.44	1.20	20.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6156	0.9803		1.91	1.20	59.2*	30.0
cis-1,3-Dichloropropene	Ave	0.4228	0.5177		1.47	1.20	22.5	30.0
Toluene	Ave	0.9763	1.099		1.35	1.20	12.5	30.0
trans-1,3-Dichloropropene	Ave	0.5383	0.6720		1.50	1.20	24.8	30.0
1,1,2-Trichloroethane	Ave	0.3719	0.3854		1.24	1.20	3.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Lab Sample ID: CCVIS 320-208998/2 Calibration Date: 02/18/2018 11:43

Instrument ID: ATMS12 Calib Start Date: 12/04/2017 21:34

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 12/05/2017 05:26

Lab File ID: MS12021802.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	0.3515	0.4569		1.56	1.20	30.0	30.0
Tetrachloroethene	Ave	0.5584	0.5947		1.28	1.20	6.5	30.0
Dibromochloromethane	Ave	0.6455	0.7088		1.32	1.20	9.8	30.0
1,2-Dibromoethane (EDB)	Ave	0.5607	0.5718		1.22	1.20	2.0	30.0
Chlorobenzene	Ave	0.8727	0.9173		1.26	1.20	5.1	30.0
Ethylbenzene	Ave	1.451	1.699		1.41	1.20	17.1	30.0
m,p-Xylene	Ave	1.136	1.359		2.87	2.40	19.7	30.0
o-Xylene	Ave	1.081	1.327		1.47	1.20	22.7	30.0
Styrene	Ave	0.7687	0.9056		1.41	1.20	17.8	30.0
Bromoform	Ave	0.6611	0.6885		1.25	1.20	4.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7516	0.7025		1.12	1.20	-6.5	30.0
1,2,3-Trichloropropane	Ave	0.2303	0.2300		1.20	1.20	-0.2	30.0
4-Ethyltoluene	Ave	0.4230	0.4798		1.36	1.20	13.4	30.0
1,3,5-Trimethylbenzene	Ave	0.5831	0.6492		1.34	1.20	11.3	30.0
1,2,4-Trimethylbenzene	Ave	0.5566	0.6049		1.30	1.20	8.7	30.0
1,3-Dichlorobenzene	Ave	0.8551	0.8456		1.19	1.20	-1.1	30.0
1,4-Dichlorobenzene	Ave	0.8071	0.8135		1.21	1.20	0.8	30.0
Benzyl chloride	Ave	1.182	1.203		0.977	0.960	1.8	30.0
1,2-Dichlorobenzene	Ave	0.7897	0.7625		1.16	1.20	-3.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5445	0.6612		1.46	1.20	21.4	30.0
Hexachlorobutadiene	Ave	0.8112	1.069		1.58	1.20	31.7*	30.0
Naphthalene	Ave	0.9582	1.121		1.40	1.20	17.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4445	0.5536		2.49	2.00	24.5	30.0
Toluene-d8 (Surr)	Ave	0.5920	0.6002		2.03	2.00	1.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7251	0.7594		2.09	2.00	4.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Lab Sample ID: CCVIS 320-208885/2 Calibration Date: 02/17/2018 11:16

Instrument ID: ATMS9 Calib Start Date: 02/08/2018 16:17

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 02/09/2018 00:05

Lab File ID: MS9021702.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.9082	0.9679		21.3	20.0	6.6	30.0
Chlorodifluoromethane	Ave	2.050	2.141		20.9	20.0	4.4	30.0
Dichlorodifluoromethane	Ave	3.007	3.083		20.5	20.0	2.5	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.052	1.983		19.3	20.0	-3.3	30.0
Chloromethane	Ave	1.094	1.139		20.8	20.0	4.1	30.0
n-Butane	Ave	1.992	2.065		20.7	20.0	3.7	30.0
Vinyl chloride	Ave	1.278	1.278		20.0	20.0	-0.0	30.0
1,3-Butadiene	Ave	1.003	1.061		21.2	20.0	5.8	30.0
Bromomethane	Ave	0.9901	0.9677		19.5	20.0	-2.3	30.0
Chloroethane	Ave	0.5928	0.6015		20.3	20.0	1.5	30.0
Vinyl bromide	Ave	0.9408	0.9263		19.7	20.0	-1.5	30.0
Trichlorofluoromethane	Ave	2.870	2.847		19.8	20.0	-0.8	30.0
n-Pentane	Ave	1.965	2.165		22.0	20.0	10.2	30.0
Ethyl ether	Ave	0.5668	0.5863		20.7	20.0	3.4	30.0
Acrolein	Ave	0.4944	0.5340		21.6	20.0	8.0	30.0
Acetone	Ave	1.671	1.821		21.8	20.0	9.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.288	2.254		19.7	20.0	-1.5	30.0
1,1-Dichloroethene	Ave	1.918	2.006		20.9	20.0	4.6	30.0
Acetonitrile	Ave	0.8660	0.9495		21.9	20.0	9.6	30.0
tert-Butyl alcohol (TBA)	Ave	3.083	3.122		20.3	20.0	1.3	30.0
Allyl chloride	Ave	1.440	1.550		21.5	20.0	7.7	30.0
Methylene Chloride	Ave	1.405	1.474		21.0	20.0	4.9	30.0
Carbon disulfide	Ave	2.440	2.417		19.8	20.0	-0.9	30.0
Acrylonitrile	Ave	0.8910	0.9395		21.1	20.0	5.5	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	3.203	3.362		21.0	20.0	5.0	30.0
trans-1,2-Dichloroethene	Ave	1.557	1.644		21.1	20.0	5.6	30.0
n-Hexane	Ave	1.279	1.410		22.1	20.0	10.3	30.0
1,1-Dichloroethane	Ave	2.188	2.297		21.0	20.0	5.0	30.0
Vinyl acetate	Ave	3.217	3.359		20.9	20.0	4.4	30.0
2-Butanone (MEK)	Ave	0.5849	0.6138		21.0	20.0	4.9	30.0
cis-1,2-Dichloroethene	Ave	1.194	1.206		20.2	20.0	1.0	30.0
Ethyl acetate	Ave	2.454	2.763		22.5	20.0	12.6	30.0
Chloroform	Ave	2.378	2.444		20.6	20.0	2.8	30.0
Tetrahydrofuran	Ave	1.341	1.517		22.6	20.0	13.1	30.0
1,1,1-Trichloroethane	Ave	2.574	2.647		20.6	20.0	2.8	30.0
Cyclohexane	Ave	0.3899	0.3972		20.4	20.0	1.9	30.0
2,2,4-Trimethylpentane	Ave	1.556	1.667		21.4	20.0	7.2	30.0
Carbon tetrachloride	Ave	0.6519	0.6298		19.3	20.0	-3.4	30.0
n-Butanol	Ave	1.332	1.322		19.9	20.0	-0.7	30.0
1,2-Dichloroethane	Ave	0.4326	0.4598		21.3	20.0	6.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Lab Sample ID: CCVIS 320-208885/2 Calibration Date: 02/17/2018 11:16

Instrument ID: ATMS9 Calib Start Date: 02/08/2018 16:17

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 02/09/2018 00:05

Lab File ID: MS9021702.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.9005	0.9162		20.3	20.0	1.7	30.0
n-Heptane	Ave	0.5359	0.6081		22.7	20.0	13.5	30.0
Trichloroethene	Ave	0.3957	0.3901		19.7	20.0	-1.4	30.0
1,2-Dichloropropane	Ave	0.1418	0.1477		20.8	20.0	4.2	30.0
Methyl methacrylate	Ave	0.3267	0.3433		21.0	20.0	5.1	30.0
Bromodichloromethane	Ave	0.4334	0.4511		20.8	20.0	4.1	30.0
1,4-Dioxane	Ave	0.2404	0.2400		20.0	20.0	-0.2	30.0
Dibromomethane	Ave	0.3859	0.3788		19.6	20.0	-1.9	30.0
NMOC as Hexane	Ave	1009	928.8		2620	20.0	-7.9	30.0
Total VOC as Hexane (C6-C12)	Ave	1009	928.8		2620	20.0	-7.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8595	0.9363		21.8	20.0	8.9	30.0
cis-1,3-Dichloropropene	Ave	0.5789	0.6126		21.2	20.0	5.8	30.0
n-Octane	Ave	1.150	1.220		21.2	20.0	6.0	30.0
Toluene	Ave	1.149	1.180		20.5	20.0	2.7	30.0
trans-1,3-Dichloropropene	Ave	0.7809	0.7647		19.6	20.0	-2.1	30.0
1,1,2-Trichloroethane	Ave	0.5533	0.5321		19.2	20.0	-3.8	30.0
2-Hexanone	Ave	0.7197	0.6998		19.4	20.0	-2.8	30.0
Tetrachloroethene	Ave	0.8081	0.7617		18.9	20.0	-5.7	30.0
Dibromochloromethane	Ave	1.015	0.9916		19.5	20.0	-2.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.8415	0.7987		19.0	20.0	-5.1	30.0
Chlorobenzene	Ave	1.340	1.282		19.1	20.0	-4.4	30.0
n-Nonane	Ave	1.195	1.327		22.2	20.0	11.1	30.0
Ethylbenzene	Ave	2.282	2.220		19.5	20.0	-2.7	30.0
m,p-Xylene	Ave	1.804	1.810		40.1	40.0	0.3	30.0
o-Xylene	Ave	1.823	1.811		19.9	20.0	-0.7	30.0
Styrene	Ave	1.417	1.406		19.8	20.0	-0.8	30.0
Bromoform	Ave	1.104	1.085		19.7	20.0	-1.7	30.0
Isopropylbenzene	Ave	0.6643	0.6369		19.2	20.0	-4.1	30.0
1,1,2,2-Tetrachloroethane	Ave	1.248	1.207		19.3	20.0	-3.3	30.0
1,2,3-Trichloropropane	Ave	0.3688	0.3486		18.9	20.0	-5.5	30.0
N-Propylbenzene	Ave	3.173	3.084		19.4	20.0	-2.8	30.0
4-Ethyltoluene	Ave	0.7779	0.7635		19.6	20.0	-1.9	30.0
1,3,5-Trimethylbenzene	Ave	1.094	1.077		19.7	20.0	-1.6	30.0
2-Chlorotoluene	Ave	0.6160	0.5982		19.4	20.0	-2.9	30.0
alpha-Methylstyrene	Ave	1.122	1.101		19.6	20.0	-1.9	30.0
tert-Butylbenzene	Ave	1.580	1.495		18.9	20.0	-5.4	30.0
1,2,4-Trimethylbenzene	Ave	1.069	1.061		19.9	20.0	-0.7	30.0
sec-Butylbenzene	Ave	3.175	3.134		19.7	20.0	-1.3	30.0
4-Isopropyltoluene	Ave	2.754	2.731		19.8	20.0	-0.8	30.0
1,3-Dichlorobenzene	Ave	1.440	1.362		18.9	20.0	-5.4	30.0
1,4-Dichlorobenzene	Ave	1.454	1.369		18.8	20.0	-5.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Lab Sample ID: CCVIS 320-208885/2 Calibration Date: 02/17/2018 11:16

Instrument ID: ATMS9 Calib Start Date: 02/08/2018 16:17

GC Column: RTX-Volatiles ID: 0.32(mm) Calib End Date: 02/09/2018 00:05

Lab File ID: MS9021702.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzyl chloride	Ave	2.716	2.585		15.2	16.0	-4.8	30.0
n-Butylbenzene	Ave	1.506	1.500		19.9	20.0	-0.4	30.0
1,2-Dichlorobenzene	Ave	1.387	1.310		18.9	20.0	-5.5	30.0
1,2,4-Trichlorobenzene	Lin1		1.326		18.1	20.0	-9.3	30.0
Hexachlorobutadiene	Ave	1.312	1.246		19.0	20.0	-5.1	30.0
Naphthalene	Ave	3.668	3.214		17.5	20.0	-12.4	30.0
1,2,3-Trichlorobenzene	Ave	1.360	1.264		18.6	20.0	-7.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.606	1.724		4.29	4.00	7.3	30.0
Toluene-d8 (Surr)	Ave	0.5085	0.5506		4.33	4.00	8.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5258	0.5372		4.09	4.00	2.2	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Instrument ID: ATMS12 Start Date: 12/04/2017 21:34

Analysis Batch Number: 198233 End Date: 12/05/2017 08:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 1 0.005ppbv		12/04/2017 21:34	1	MS12120411.D	RTX-Volatiles 0.32(mm)
IC 320-198233/6		12/04/2017 22:23	1	MS12120412.D	RTX-Volatiles 0.32(mm)
IC 320-198233/7		12/04/2017 23:13	1	MS12120413.D	RTX-Volatiles 0.32(mm)
IC 320-198233/8		12/05/2017 00:04	1	MS12120414.D	RTX-Volatiles 0.32(mm)
IC 320-198233/9		12/05/2017 00:59	1	MS12120415.D	RTX-Volatiles 0.32(mm)
IC 320-198233/10		12/05/2017 01:49	1	MS12120416.D	RTX-Volatiles 0.32(mm)
IC 320-198233/11		12/05/2017 02:38	1	MS12120417.D	RTX-Volatiles 0.32(mm)
ICIS 320-198233/12		12/05/2017 03:30	1	MS12120418.D	RTX-Volatiles 0.32(mm)
IC 320-198233/13		12/05/2017 04:25	1	MS12120419.D	RTX-Volatiles 0.32(mm)
IC 320-198233/14		12/05/2017 05:26	1	MS12120420.D	RTX-Volatiles 0.32(mm)
ICV 320-198233/17		12/05/2017 08:07	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Instrument ID: ATMS12 Start Date: 02/05/2018 11:23

Analysis Batch Number: 206917 End Date: 02/06/2018 05:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 320-206917/2		02/05/2018 11:23	1	MS12020502.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 12:15	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 13:07	1		RTX-Volatiles 0.32(mm)
MB 320-206917/7		02/05/2018 17:07	1	MS12020507.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 18:06	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 19:04	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 20:02	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 21:00	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 22:00	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/05/2018 23:01	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/06/2018 00:01	1		RTX-Volatiles 0.32(mm)
320-35506-1		02/06/2018 01:01	1	MS12020515.D	RTX-Volatiles 0.32(mm)
320-35506-2		02/06/2018 02:54	1	MS12020517.D	RTX-Volatiles 0.32(mm)
320-35506-3		02/06/2018 03:54	1	MS12020518.D	RTX-Volatiles 0.32(mm)
320-35506-4		02/06/2018 04:55	1	MS12020519.D	RTX-Volatiles 0.32(mm)
320-35506-5		02/06/2018 05:55	1	MS12020520.D	RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35506-1

SDG No.:

Instrument ID: ATMS12 Start Date: 02/06/2018 10:31

Analysis Batch Number: 207084 End Date: 02/07/2018 05:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 320-207084/2		02/06/2018 10:31	1	MS12020602.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/06/2018 11:23	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/06/2018 12:15	1		RTX-Volatiles 0.32(mm)
MB 320-207084/7		02/06/2018 16:23	1	MS12020607.D	RTX-Volatiles 0.32(mm)
320-35506-6		02/06/2018 17:24	1	MS12020608.D	RTX-Volatiles 0.32(mm)
320-35506-7		02/06/2018 18:25	1	MS12020609.D	RTX-Volatiles 0.32(mm)
320-35506-8		02/06/2018 19:25	1	MS12020610.D	RTX-Volatiles 0.32(mm)
320-35506-9		02/06/2018 20:26	1	MS12020611.D	RTX-Volatiles 0.32(mm)
320-35506-10		02/06/2018 22:19	1	MS12020613.D	RTX-Volatiles 0.32(mm)
320-35506-11		02/06/2018 23:19	1	MS12020614.D	RTX-Volatiles 0.32(mm)
320-35506-12		02/07/2018 00:20	1	MS12020615.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/07/2018 01:19	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/07/2018 02:20	1.14		RTX-Volatiles 0.32(mm)
ZZZZZ		02/07/2018 03:21	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/07/2018 04:24	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/07/2018 05:23	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Instrument ID: ATMS2 Start Date: 02/05/2018 14:13

Analysis Batch Number: 206971 End Date: 02/06/2018 10:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-206971/1		02/05/2018 14:13	1	18020501.D	RTX-Volatiles 0.32(mm)
IC 320-206971/17		02/06/2018 02:26	1	18020517.D	RTX-Volatiles 0.32(mm)
IC 320-206971/18		02/06/2018 03:10	1	18020518.D	RTX-Volatiles 0.32(mm)
IC 320-206971/19		02/06/2018 03:54	1	18020519.D	RTX-Volatiles 0.32(mm)
IC 320-206971/20		02/06/2018 04:39	1	18020520.D	RTX-Volatiles 0.32(mm)
IC 320-206971/21		02/06/2018 05:28	1	18020521.D	RTX-Volatiles 0.32(mm)
IC 320-206971/22		02/06/2018 06:11	1	18020522.D	RTX-Volatiles 0.32(mm)
IC 320-206971/23		02/06/2018 06:56	1	18020523.D	RTX-Volatiles 0.32(mm)
IC 320-206971/24		02/06/2018 07:40	1	18020524.D	RTX-Volatiles 0.32(mm)
IC 320-206971/25		02/06/2018 08:26	1	18020525.D	RTX-Volatiles 0.32(mm)
IC 320-206971/26		02/06/2018 09:14	1	18020526.D	RTX-Volatiles 0.32(mm)
ICV 320-206971/28		02/06/2018 10:47	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Instrument ID: ATMS2 Start Date: 02/06/2018 14:38

Analysis Batch Number: 207197 End Date: 02/07/2018 00:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-207197/1		02/06/2018 14:38	1	18020601.D	RTX-Volatiles 0.32(mm)
IC 320-207197/3		02/06/2018 16:08	1	18020603.D	RTX-Volatiles 0.32(mm)
IC 320-207197/4		02/06/2018 16:53	1	18020604.D	RTX-Volatiles 0.32(mm)
IC 320-207197/5		02/06/2018 17:38	1	18020605.D	RTX-Volatiles 0.32(mm)
IC 320-207197/6		02/06/2018 18:24	1	18020606.D	RTX-Volatiles 0.32(mm)
IC 320-207197/7		02/06/2018 19:12	1	18020607.D	RTX-Volatiles 0.32(mm)
IC 320-207197/8		02/06/2018 19:57	1	18020608.D	RTX-Volatiles 0.32(mm)
ICIS 320-207197/9		02/06/2018 20:42	1	18020609.D	RTX-Volatiles 0.32(mm)
IC 320-207197/10		02/06/2018 21:27	1	18020610.D	RTX-Volatiles 0.32(mm)
IC 320-207197/11		02/06/2018 22:13	1	18020611.D	RTX-Volatiles 0.32(mm)
IC 320-207197/12		02/06/2018 23:01	1	18020612.D	RTX-Volatiles 0.32(mm)
ICV 320-207197/14		02/07/2018 00:34	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35602-1

SDG No.:

Instrument ID: ATMS2 Start Date: 02/14/2018 10:54

Analysis Batch Number: 208383 End Date: 02/15/2018 08:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-208383/1		02/14/2018 10:54	1	18021401.D	RTX-Volatiles 0.32(mm)
CCVIS 320-208383/2		02/14/2018 11:37	1	18021402.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 12:22	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 13:07	1		RTX-Volatiles 0.32(mm)
CCV 320-208383/5		02/14/2018 15:09	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 15:55	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 16:41	1		RTX-Volatiles 0.32(mm)
CCV 320-208383/8		02/14/2018 17:26	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 18:12	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 18:58	1		RTX-Volatiles 0.32(mm)
MB 320-208383/13		02/14/2018 21:22	1	18021414.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 22:09	2.38		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 22:54	8.48		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 23:47	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 00:39	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 01:31	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 02:27	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 03:22	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 04:16	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 05:02	6.71		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 05:53	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 06:44	1		RTX-Volatiles 0.32(mm)
320-35602-1		02/15/2018 07:36	1	18021426.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 08:41	6.61		RTX-Volatiles 0.32(mm)

TO-15

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Instrument ID: ATMS1 Start Date: 02/16/2018 18:01

Analysis Batch Number: 208855 End Date: 02/17/2018 16:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICIS 320-208855/2		02/16/2018 18:01	1	MS10216A02.D	RTX-Volatiles 0.32(mm)
IC 320-208855/3		02/16/2018 18:51	1	MS10216A03.D	RTX-Volatiles 0.32(mm)
MB 320-208855/5		02/16/2018 20:54	1	MS10216A05.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/16/2018 21:54	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/16/2018 22:53	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/16/2018 23:54	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 00:53	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 02:48	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 03:48	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 04:48	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 05:47	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 07:42	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 08:43	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 09:43	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 10:43	1		RTX-Volatiles 0.32(mm)
320-35716-1		02/17/2018 12:37	1	MS10216A21.D	RTX-Volatiles 0.32(mm)
320-35716-2		02/17/2018 13:38	1	MS10216A22.D	RTX-Volatiles 0.32(mm)
320-35716-4		02/17/2018 14:38	1	MS10216A23.D	RTX-Volatiles 0.32(mm)
320-35716-5		02/17/2018 15:38	1	MS10216A24.D	RTX-Volatiles 0.32(mm)
320-35716-6		02/17/2018 16:39	1	MS10216A25.D	RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35716-1

SDG No.:

Instrument ID: ATMS1 Start Date: 02/18/2018 11:49

Analysis Batch Number: 208997 End Date: 02/19/2018 04:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICIS 320-208997/2		02/18/2018 11:49	1	MS1021802.D	RTX-Volatiles 0.32(mm)
IC 320-208997/3		02/18/2018 12:39	1	MS1021803.D	RTX-Volatiles 0.32(mm)
MB 320-208997/5		02/18/2018 14:42	1	MS1021805.D	RTX-Volatiles 0.32(mm)
320-35716-7		02/18/2018 15:41	1	MS1021806.D	RTX-Volatiles 0.32(mm)
320-35716-8		02/18/2018 16:41	1	MS1021807.D	RTX-Volatiles 0.32(mm)
320-35716-9		02/18/2018 17:40	1	MS1021808.D	RTX-Volatiles 0.32(mm)
320-35716-10		02/18/2018 18:40	1	MS1021809.D	RTX-Volatiles 0.32(mm)
320-35716-11		02/18/2018 20:34	1	MS1021811.D	RTX-Volatiles 0.32(mm)
320-35716-12		02/18/2018 21:34	1	MS1021812.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 22:33	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 23:33	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/19/2018 01:27	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/19/2018 02:27	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/19/2018 03:26	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/19/2018 04:27	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Instrument ID: ATMS12 Start Date: 12/04/2017 21:34

Analysis Batch Number: 198233 End Date: 12/05/2017 08:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 1 0.005ppbv		12/04/2017 21:34	1	MS12120411.D	RTX-Volatiles 0.32(mm)
IC 320-198233/6		12/04/2017 22:23	1	MS12120412.D	RTX-Volatiles 0.32(mm)
IC 320-198233/7		12/04/2017 23:13	1	MS12120413.D	RTX-Volatiles 0.32(mm)
IC 320-198233/8		12/05/2017 00:04	1	MS12120414.D	RTX-Volatiles 0.32(mm)
IC 320-198233/9		12/05/2017 00:59	1	MS12120415.D	RTX-Volatiles 0.32(mm)
IC 320-198233/10		12/05/2017 01:49	1	MS12120416.D	RTX-Volatiles 0.32(mm)
IC 320-198233/11		12/05/2017 02:38	1	MS12120417.D	RTX-Volatiles 0.32(mm)
ICIS 320-198233/12		12/05/2017 03:30	1	MS12120418.D	RTX-Volatiles 0.32(mm)
IC 320-198233/13		12/05/2017 04:25	1	MS12120419.D	RTX-Volatiles 0.32(mm)
IC 320-198233/14		12/05/2017 05:26	1	MS12120420.D	RTX-Volatiles 0.32(mm)
ICV 320-198233/17		12/05/2017 08:07	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35833-1

SDG No.:

Instrument ID: ATMS12 Start Date: 02/18/2018 11:43

Analysis Batch Number: 208998 End Date: 02/19/2018 04:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 320-208998/2		02/18/2018 11:43	1	MS12021802.D	RTX-Volatiles 0.32(mm)
MB 320-208998/5		02/18/2018 14:30	1	MS12021805.D	RTX-Volatiles 0.32(mm)
320-35833-1		02/18/2018 15:31	1	MS12021806.D	RTX-Volatiles 0.32(mm)
320-35833-2		02/18/2018 16:32	1	MS12021807.D	RTX-Volatiles 0.32(mm)
320-35833-3		02/18/2018 17:33	1	MS12021808.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 18:34	1		RTX-Volatiles 0.32(mm)
320-35833-5		02/18/2018 20:27	1	MS12021811.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 21:28	1		RTX-Volatiles 0.32(mm)
320-35833-7		02/18/2018 22:29	1	MS12021813.D	RTX-Volatiles 0.32(mm)
320-35833-8		02/18/2018 23:30	1	MS12021814.D	RTX-Volatiles 0.32(mm)
320-35833-9		02/19/2018 01:24	1	MS12021816.D	RTX-Volatiles 0.32(mm)
320-35833-10		02/19/2018 02:26	1	MS12021817.D	RTX-Volatiles 0.32(mm)
320-35833-11		02/19/2018 03:27	1	MS12021818.D	RTX-Volatiles 0.32(mm)
320-35833-12		02/19/2018 04:28	1	MS12021819.D	RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-35976-1

SDG No.:

Instrument ID: ATMS6 Start Date: 02/14/2018 13:59

Analysis Batch Number: 208389 End Date: 02/15/2018 03:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-208389/1		02/14/2018 13:59	1	MS6021401.D	RTX-Volatiles 0.32(mm)
ICIS 320-208389/2		02/14/2018 14:55	1	MS6021402.D	RTX-Volatiles 0.32(mm)
IC 320-208389/3		02/14/2018 16:14	1	MS6021403.D	RTX-Volatiles 0.32(mm)
MB 320-208389/5		02/14/2018 18:07	1	MS6021405.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 19:07	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 20:07	1		RTX-Volatiles 0.32(mm)
320-35976-1		02/14/2018 21:07	1	MS6021408.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/14/2018 22:07	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 00:05	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 01:05	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 02:05	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/15/2018 03:05	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Instrument ID: ATMS9 Start Date: 02/08/2018 14:33

Analysis Batch Number: 207617 End Date: 02/09/2018 01:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-207617/1		02/08/2018 14:33	1	MS9020801.D	RTX-Volatiles 0.32(mm)
IC 320-207617/3		02/08/2018 16:17	1	MS9020803.D	RTX-Volatiles 0.32(mm)
IC 320-207617/4		02/08/2018 17:10	1	MS9020804.D	RTX-Volatiles 0.32(mm)
IC 320-207617/5		02/08/2018 18:02	1	MS9020805.D	RTX-Volatiles 0.32(mm)
IC 320-207617/6		02/08/2018 18:53	1	MS9020806.D	RTX-Volatiles 0.32(mm)
IC 320-207617/7		02/08/2018 19:47	1	MS9020807.D	RTX-Volatiles 0.32(mm)
IC 320-207617/8		02/08/2018 20:38	1	MS9020808.D	RTX-Volatiles 0.32(mm)
ICIS 320-207617/9		02/08/2018 21:29	1	MS9020809.D	RTX-Volatiles 0.32(mm)
IC 320-207617/10		02/08/2018 22:20	1	MS9020810.D	RTX-Volatiles 0.32(mm)
IC 320-207617/11		02/08/2018 23:11	1	MS9020811.D	RTX-Volatiles 0.32(mm)
IC 320-207617/12		02/09/2018 00:05	1	MS9020812.D	RTX-Volatiles 0.32(mm)
ICV 320-207617/14		02/09/2018 01:50	1		RTX-Volatiles 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-36037-1

SDG No.:

Instrument ID: ATMS9 Start Date: 02/17/2018 10:25

Analysis Batch Number: 208885 End Date: 02/18/2018 04:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 320-208885/1		02/17/2018 10:25	1	MS9021701.D	RTX-Volatiles 0.32(mm)
CCVIS 320-208885/2		02/17/2018 11:16	1	MS9021702.D	RTX-Volatiles 0.32(mm)
MB 320-208885/5		02/17/2018 14:09	1	MS9021705.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 15:04	1		RTX-Volatiles 0.32(mm)
320-36037-1		02/17/2018 16:01	1	MS9021707.D	RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 16:57	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 17:53	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 19:44	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 20:41	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 21:37	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/17/2018 22:34	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 00:22	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 01:18	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 02:16	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 03:12	1		RTX-Volatiles 0.32(mm)
ZZZZZ		02/18/2018 04:08	1		RTX-Volatiles 0.32(mm)

Shipping and Receiving Documents

TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** DUSTIN MCNEIL	**Samples Collected By:** PARSONS – SL/JL	COC No: 320-32118-1
Company Name: GMATE ENVIRONMENTAL	**Phone:** 720.463.3904		1 of 3 COCs
Address: 995 UNION BLVD. ST 129	**Email:** DMCNEIL@GMATE.COM		
City/State/Zip LAKEWOOD, CO 80226			**For Lab Use Only:**
Phone: 303 597 2450	**Site Contact:**		Walk-in Client:
FAX: –	**TA Contact:**		Lab Sampling:
Project Name: GAFD SV SAMPLING	**Anaylsis Turnaround Time**		Job / SDG No.:
Site/Location: GAFD 774-776 785-786	Standard (Specific): ✓		(See below for Add'l Items)
PO#AFCGSA3-0012-00AC-2011-0004	Rush (Specifiy):		

	Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) TRT	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
1	774VMP-1_0318	3.21.18	0800	1600	-28	-3	7652	34000612	X											X			
2	774VMP-2_0318		0810	1555	-29	-4	8134	34000021	X											X			
3	774VMP-3_0318		0815	1600	-30	-4	4629	8241	X											X			
4	774IA-1_0318		0815	1600	-30	-5	8863	34000342	X									X					SIM
5	776VMP-1_0318		0735	1535	-28	-2	8958	34000279	X											X			
6	776VMP-2_0318		0730	1535	-30	-5	7374	34001159	X											X			
7	776VMP-2_0318-G		0730	1535	-29	-3	8859	34002458	X											X			
8	776VMP-3_0318		0740	1540	-29	-4	7257	8279	X											X			
9	776IA-1_0318		0735	1535	-29	-1	8923	34000881	X									X					SIM
10	776OA-1_0318		0820	1605	-29	Ø	8669	34000566	X										X				

	Temperature (Fahrenheit)			
Start	Interior 70°	Ambient 22°		
Stop	70°	44°		

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

320-37345 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by: PARSONS	**Date / Time:** 3.21.18 1800	**Samples Received by:**	TA-GAC
Samples Relinquished by:	**Date / Time:**	**Received by:** 3-22-18 0905	
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** DUSTIN MCNEIL	**Samples Collected By:** PARSONS - RL/JL
Company Name: BHATE ENVIRONMENTAL	**Phone:** 720. 463. 3904	
Address: 445 UNION BLVD. ST 129	**Email:** DMCNEIL@BHATE.COM	
City/State/Zip LAKEWOOD, CO 80226		
Phone: 303 597 2480	**Site Contact:**	
FAX:	**TA Contact:**	
Project Name: GAFD SV SAMPLING	**Anaylsis Turnaround Time**	
Site/Location: GAFD 774-776 785-786	Standard (Specific): ✓	
P O # AFCGSA3.0012.00AC.2011.0004	Rush (Specifiy):	

COC No: 1 032118 - 1
2 of 3 COCs

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Job / SDG No.:
(See below for Add'l Items)

	Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
01	785 VMP-2 _ 0318	3.21.18	0905	1655	-30	-4	7367	34001453	X											X			
02	785 VMP-2 _ 0318 - a		0905	1655	-29	-4	7306	34001433	X											X			
03	785 VMP-4 _ 0318		0905	1700	-30	-4	8532	34000408	X											X			
04	785 VMP-5 _ 0318		0915	1705	-28	-4	8531	8296	X											X			
05	785 IA-1 _ 0318		0900	1645	-26	-1	8853	34004431	X									X					SIM
06	786 VMP-1 _ 0318		0845	1630	-30	-5	7143	34000789	X											X			
07	786 VMP-2 _ 0318		0850	1635	-29	-2	7300	7960	X											X			
08	786 VMP-3 _ 0318		0840	1625	-30	-6	7381	8240	X											X			
09	786 IA-1 _ 0318		0840	1625	-27	-5	8857	34002414	X									X					SIM
10	785 OA-1 _ 0318		0915	1705	-30	-4	7190	34000559	X										X				

Temperature (Fahrenheit)				
Start	Interior 65°	Ambient 22°		
Stop	65°	44°		

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by: PARSONS	**Date / Time:** 3.21.18 1800	**Samples Received by:** 0905 3-22-18
Samples Relinquished by:	**Date / Time:**	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

TA-SAC

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** DUSTIN MCNEIL	**Samples Collected By:** Josh Cronlund	COC No: 032118-1
Company Name: Bhate	Phone: 720.463.3904		3 of 3 COCs
Address: 445 Union Blvd Ste 129	Email: DMCNEIL@BHATE.com		
City/State/Zip: Lakewood, CO 80226			For Lab Use Only:
Phone: 303-597-2450	Site Contact:		Walk-in Client:
FAX:	TA Contact:		Lab Sampling:
Project Name: GAFB	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: 774 & 776	Standard (Specific): ✓		(See below for Add'l Items)
P O # AFCEGA3.0012.00AC.2011.0004	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	*Sample Type*	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
1 774776INF_0318	3.9.18	11:05	11:07	-30	0	—	5622	X													X	Influent

	Temperature (Fahrenheit)		
	Start	Interior	Ambient
	Stop		

	Temperature (Fahrenheit)		
	Start	Interior	Ambient
	Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by: PARSON	**Date / Time:** 3.21.18 1800	**Samples Received by:** [illegible] 0905 3-22-18	TA-SAC
Samples Relinquished by:	**Date / Time:**	**Received by:**	
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

Login Sample Receipt Checklist

Client: Bhate Environmental

Job Number: 320-37345-1

Login Number: 37345
List Number: 1
Creator: Branscum, Cassie

List Source: TestAmerica Sacramento

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.	N/A	
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.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D
DATA VALIDATION REPORTS
(PROVIDED ELECTRONICALLY ON CD)

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Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Griffiss Air Force Base, New York, in March 2018. Nineteen air samples and two field duplicates were collected from sites SD052-SVI Buildings 774/776 and Buildings 785/786 for long term management. All analyses were performed by TestAmerica Laboratories, Inc., Sacramento, California. The specific samples included in this validation were:

Sample Identification	Matrix	Collection Date	Analyses (USEPA Method Number)
774776-INF_0318	Air	3/9/18	VOCs with 1,4-dioxane (TO-15)
774VMP-1_0318		3/21/18	VOCs (TO-15)
774VMP-2_0318			
774VMP-3_0318			
774IA-1_0318			VOCs (TO-15 SIM)
776VMP-1_0318			VOCs with 1,4-dioxane (TO-15)
776VMP-2_0318			
776VMP-2_0318-a			
776VMP-3_0318			
776OA-1_0318			
776IA-1_0318			VOCs with 1,4-dioxane (TO-15 SIM)
785VMP-2_0318			VOCs (TO-15)
785VMP-2_0318-a			
785VMP-4_0318			
785VMP-5_0318			
785IA-1_0318			VOCs (TO-15 SIM)
785OA-1_0318			VOCs (TO-15)
786VMP-1_0318			
786VMP-2_0318			
786VMP-3_0318			
786IA-1_0318			VOCs (TO-15 SIM)
Notes: USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SIM – Selected Ion Monitoring			

This data was validated against the laboratory's quality assurance (QA)/quality control (QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, August 2014) and per requirements of the Department of Defense Quality Systems Manual, Version 5.0, as specified in the project-specific Quality Assurance Project Plan (QAPP).

Sample Handling and Holding Times

All samples were analyzed within the method defined hold time.

Method Blank

The method blanks had no reportable detections.

Blank Spike Sample (Laboratory Control Sample)/Surrogates

The laboratory control sample (LCS) and surrogate recoveries were within control limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD), when reported, were within control limits.

Project Specific Quality Assurance/Quality Control

The duplicate RPD for benzene was outside project defined control limits between sample 785VMP-2_0318 and its duplicate. This compound was qualified as estimated and flagged "J" in both samples.

Calibration Verification Data

The calibration verification data was within control limits for all reported analytes.

Overall Assessment of Data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Results

Sample Identification	Compound	Qualified Results ($\mu g/m^3$)	Reason Code
785VMP-2_0318	Benzene	0.71 J	Dup RPD
785VMP-2_0318-a	Benzene	0.49 J	Dup RPD
Notes: $\mu g/m^3$ – micrograms per cubic meter, Dup RPD – RPD between parent and duplicate is outside project defined control limits			

APPENDIX E
REMEDIATION SYSTEM O&M FORMS
(PROVIDED ELECTRONICALLY ON CD)

Note: O&M data associated with Site ST-006 included on some of the attached Remediation System O&M Forms is not applicable to this report.

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SSVM VAPOR MONITORING POINTS **DATE:** 4.6.17

BAROMETRIC PRESSURE (inches Hg): 29.56

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-22"	0.8	55°	
774SVM-2	-20"	0.1	58°	
774SVM-1	-22"	0.4	56°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -14.5 " Hg

SOLBERG FILTER (PRESSURE) INLET: 1.5" Hg OUTLET: 4.5" Hg

CARBON TEMP: 94° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	52°	
786SVM-1	-52"	0.3	58°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: 1/3 FULL H_2O → DRAINED (WATER VERY TURBID)

INLET TEMP: 60° VACUUM: 5.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 160° F PRESSURE: 2.25 PSI

CARBON TEMP: 116° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS: SHUTDOWN FOR KO DRAIN

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Blower	-10.0	0.7	70° F	
After Blower	-10.5	-		

Blower Outlet Pressure: 0 PSI Hours: 27819.7

SSVM VAPOR MONITORING POINTS **DATE:** 4/13/17

BAROMETRIC PRESSURE (inches Hg): 30.44 DBJ Parsons

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-22.0	0.9	58	
774SVM-2	-21.0	0.4	62	
774SVM-1	-23.0	0.4	59	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: OK - No Water KO TANK INLET PRESSURE: -16.0"

SOLBERG FILTER (PRESSURE) INLET: 1.5" OUTLET: -4.5"

CARBON TEMP: 96°F PRE-PID: POST-PID:

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-65	0.6	50°	
786SVM-1	-35	0.6	54°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK - Cleaned of debris

KO TANK: 1/3 Full - Drained

INLET TEMP: 68°F VACUUM: -4.0 VELOCITY: 3.0

DISCHARGE TEMP: 70°F PRESSURE: 2.4 PSI

CARBON TEMP: 125°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-12.0	1.4	72°F	
After Filter	-12.0	- outlet temp	60°F	

Blower Outlet Pressure: 0 PSI Hours: 27986.4

Katherine at Front Desk - very helpful

SSVM VAPOR MONITORING POINTS **DATE:** 4-20-17

DRD Parsons

BAROMETRIC PRESSURE (inches Hg): 30.14

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-21.0	0.8	60°F	
774SVM-2	-20.0	0.2	64°F	
774SVM-1	-22.0	0.4	60°F	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: Empty KO TANK INLET PRESSURE: -18.0 "Hg

SOLBERG FILTER (PRESSURE) INLET: 1.4 "Hg OUTLET: 5.5 "Hg

CARBON TEMP: 105 F PRE-PID: 0.0 PPM POST-PID: 0.0 PPM

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64	0.6	50°F	
786SVM-1	-35	0.6	60°F	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK - Cleaned Debris off

KO TANK: 1/8 Full drained

INLET TEMP: 70°F VACUUM: 5.0 VELOCITY: 3.0

DISCHARGE TEMP: 72°F PRESSURE: 1.9

CARBON TEMP: 132°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10.0	1.4	72°F	
After Filter	-10.5	-	65°F	

Blower Outlet Pressure: 0 Hours: 28155.6

SSVM VAPOR MONITORING POINTS **DATE:** 4.28.17

BAROMETRIC PRESSURE (inches Hg): 30.03

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20	0.8	62°	
774SVM-2	-18	0.1	68°	
774SVM-1	-22	0.4	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN:

KO TANK: NO H_2O KO TANK INLET PRESSURE: -20.5" Hg

SOLBERG FILTER (PRESSURE) INLET: 7.0" Hg OUTLET: 6.5" Hg

CARBON TEMP: 114° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	54°	
786SVM-1	-32"	0.3	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: 1/10 FULL OF WATER

INLET TEMP: 74° VACUUM: 5.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 170° PRESSURE: 1.5 PSI

CARBON TEMP: 140° PRE-PID: 0.0 POST-PID: 0.0

COMMENTS: TANK DRAINED, SYSTEM RESTARTED

B101 (ST-006) SYSTEM OPERATION: OFF ON ARRIVAL

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

- SOME WATER IN KNOCKOUT
- SYSTEM WILL NOT POWER ON, CALL TO BARRY FOR MAINTENANCE/REPAIR

SSVM VAPOR MONITORING POINTS **DATE:** 5.4.17

BAROMETRIC PRESSURE (inches Hg): 30.22

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20"	0.9	57°	
774SVM-2	-20"	0.1	64°	
774SVM-1	-20"	0.4	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -17" Hg

SOLBERG FILTER (PRESSURE) INLET: 1.0" Hg OUTLET: 5.5" Hg

CARBON TEMP: 100°F PRE-PID: Ø.Ø POST-PID: Ø.Ø

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	64"	0.3	60° F	
786SVM-1	34"	0.3	54° F	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: MINIMAL WATER, POWERED DOWN TO DRAIN

INLET TEMP: 72° F VACUUM: 9.75" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 165° F PRESSURE: 2.0 PSI

CARBON TEMP: 132° F PRE-PID: Ø.Ø POST-PID: Ø.Ø

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: DOWN AWAITING REPAIR

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

SSVM VAPOR MONITORING POINTS **DATE:** 5.12.17

BAROMETRIC PRESSURE (inches Hg): 30.01

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20"	0.7	62°	
774SVM-2	-20"	0.1	68°	
774SVM-1	-20"	0.4	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: No H_2O KO TANK INLET PRESSURE: -20" Hg

SOLBERG FILTER (PRESSURE) INLET: 1.0" Hg OUTLET: 6.5" Hg

CARBON TEMP: 112°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.5	54°	
786SVM-1	-34"	0.3	60°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OPERATING - HAD BEEN UNDERATED.

KO TANK: ~1/10 FULL W/ H_2O → DRAINED.

INLET TEMP: 72°F VACUUM: 5.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 168°F PRESSURE: 1.5 PSI

CARBON TEMP: 134°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS: MOVED HEAT EXCHANGE BACK TO ORIGINAL POSITION.
WILL NEED TO RELEVEL - DOES NOT FEEL TOTALLY STABLE.

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	10.0"	0.7"	72°	
After Filter	10.5"	-	80°	

Blower Outlet Pressure: 0 PSI Hours: 28398.1

SSVM VAPOR MONITORING POINTS **DATE:** 5.13.17

BAROMETRIC PRESSURE (inches Hg):

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20"	0.8	64°	
774SVM-2	-18"	0.1	70°	
774SVM-1	-20"	0.4	65°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -21" Hg

SOLBERG FILTER (PRESSURE) INLET: 1.0 " Hg OUTLET: 7.0 " Hg

CARBON TEMP: 124°F PRE-PID: 0.0 POST-PID: 0.0 PPM

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	~~5.0~~ 0.3	58°	
786SVM-1	-34"	6 0.3	64°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: DRAINED

INLET TEMP: 78° VACUUM: -5.5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 170° F PRESSURE: 1.5 PSI

CARBON TEMP: 148°F PRE-PID: 0.0 POST-PID: 0.0 PPM

COMMENTS:

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

NO READINGS 5.13, WILL RETURN WK OF 5.22

SSVM VAPOR MONITORING POINTS **DATE:** 5.25.17

BAROMETRIC PRESSURE (inches Hg): 29.59" ↓

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20"	0.7"	64°	
774SVM-2	-20"	0.1"	68°	
774SVM-1	-22"	0.4"	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -17.5

SOLBERG FILTER (PRESSURE) INLET: 1.5" Hg OUTLET: 5.5" Hg

CARBON TEMP: 108°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	56°	
786SVM-1	-39"	0.3	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: OK → VERY LITTLE WATER

INLET TEMP: 74° VACUUM: 5.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 170°F PRESSURE: 2.0 PSI

CARBON TEMP: 132°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.7	70°F	
After Filter	-10.5"	—	70°F	

Blower Outlet Pressure: 0 PSI Hours: 28708.9

SSVM VAPOR MONITORING POINTS **DATE:** 6.9.17

BAROMETRIC PRESSURE (inches Hg): 29.77

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-18"	0.6	68°	
774SVM-2	-18"	0.1	70°	
774SVM-1	-20"	0.3	68°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -20" Hg

SOLBERG FILTER (PRESSURE) INLET: 1.0" Hg OUTLET: 6.5" Hg

CARBON TEMP: 110°F PRE-PID: 2.0 ppm POST-PID: 0.0 ppm

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	58°F	
786SVM-1	-34"	0.3	64°F	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 78° F VACUUM: -5.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 175° F PRESSURE: 1.5 PSI

CARBON TEMP: 144° F PRE-PID: 0.0 ppm POST-PID: 0.0 ppm

COMMENTS:

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.7"	70° F	
After Filter	-10.5"	—	70° F	

Blower Outlet Pressure: 0 PSI Hours: 29068.5

SSVM VAPOR MONITORING POINTS **DATE:** 6.14.17

BAROMETRIC PRESSURE (inches Hg): 30.07

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-18"	0.6	68°	
774SVM-2	-16"	0.3	72°	
774SVM-1	-19"	0.4	68°	

SYSTEM OPERATION: OK ! HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -20" Hg

SOLBERG FILTER (PRESSURE) INLET: 1.0" Hg OUTLET: 6.0" Hg

CARBON TEMP: 118° F PRE-PID: 0.0 ppm POST-PID: 0.0 ppm

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	60°	
786SVM-1	-34"	0.3	66°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 80° F VACUUM: -5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 175° F PRESSURE: 1.5 PSI

CARBON TEMP: 146° F PRE-PID: 0.0 ppm POST-PID: 0.0 ppm

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK!

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.7	70° F	
After Filter	-10.5"	-	70° F	

Blower Outlet Pressure: 0 PSI Hours: 29187.0

SSVM VAPOR MONITORING POINTS **DATE:** 6.22.17

BAROMETRIC PRESSURE (inches Hg): 29.98

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-16"	0.6	72°	
774SVM-2	-16"	0.1	74°	
774SVM-1	-18"	0.3	72°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -21.5" Hg

SOLBERG FILTER (PRESSURE) INLET: 1.0" Hg OUTLET: -7.5" Hg

CARBON TEMP: 128 °F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	60°	
786SVM-1	-34"	0.3	68°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 82° F VACUUM: -4.5" Hg VELOCITY: -3.0" H_2O

DISCHARGE TEMP: 175° F PRESSURE: 1.5 PSI

CARBON TEMP: 148° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.7	70°	
After Filter	-10.5"	-	70°	

Blower Outlet Pressure: 0 PSI Hours: 29380.5

SSVM VAPOR MONITORING POINTS **DATE:** 6.29.17

BAROMETRIC PRESSURE (inches Hg): 30.02

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-18"	0.5	70°	
774SVM-2	-16"	0.1	72°	
774SVM-1	-16"	0.3	70°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -20" Hg

SOLBERG FILTER (PRESSURE) INLET: -1.0" Hg OUTLET: -6.5" Hg

CARBON TEMP: 124° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	60°	
786SVM-1	-34"	0.3	64°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 80° F VACUUM: -4.5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 175° F PRESSURE: 1.5 PSI

CARBON TEMP: 152° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-40"	0.7	70° F	
After Filter	-10.5"	-	70° F	

Blower Outlet Pressure: 0 PSI Hours: 29551.4

SSVM VAPOR MONITORING POINTS **DATE:** 7.7.17

BAROMETRIC PRESSURE (inches Hg): 29.72

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-14"	0.5	72°	
774SVM-2	-14"	0.1	78°	
774SVM-1	-16"	0.3	72°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -21" Hg

SOLBERG FILTER (PRESSURE) INLET: 0.5" Hg OUTLET: 7.5" Hg

CARBON TEMP: 138°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	64°	
786SVM-1	-34"	0.3	68°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 84° F VACUUM: 5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 160°F PRESSURE: 1 PSI

CARBON TEMP: 150°F PRE-PID: 0.4 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

NO BADGE → WILL RETURN NEXT WEEK

SSVM VAPOR MONITORING POINTS **DATE:** 7.14.17

BAROMETRIC PRESSURE (inches Hg): 29.98

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-14"	0.5	72°	
774SVM-2	-14"	0.2	76°	
774SVM-1	-17"	0.3	72°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -17" Hg

SOLBERG FILTER (PRESSURE) INLET: 0.5" Hg OUTLET: 6.5" Hg

CARBON TEMP: 126°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	62°	
786SVM-1	-54"	0.3	68°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 82°F VACUUM: -4.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 175°F PRESSURE: 1.5 PSI

CARBON TEMP: 145°F PRE-PID: 0.4 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.7	70°	
After Filter	-10.5"	-	70°	

Blower Outlet Pressure: 0 PSI Hours: 29908.7

SSVM VAPOR MONITORING POINTS **DATE:** 7.21.17

BAROMETRIC PRESSURE (inches Hg): 29.92

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: OFF ON ARRIVAL HEAT EXCHANGE FAN: Ok

KO TANK: NO H_2O KO TANK INLET PRESSURE: —

SOLBERG FILTER (PRESSURE) — INLET: — OUTLET: —

CARBON TEMP: — PRE-PID: — POST-PID: —

COMMENTS: HIGH KNOCKOUT ALARM ON UPON ARRIVAL

- ALARM RESET STARTED SYSTEM
- BLOWER MAKING ABNORMAL HIGH PITCHED SOUND, POWERING OFF.

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	64"	0.3	62°	
786SVM-1	34"	0.3	68°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: Ok

KO TANK: NO H_2O

INLET TEMP: 84° F VACUUM: 4.5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 180° F PRESSURE: 1.5 PSI

CARBON TEMP: 148° F PRE-PID: 0.3 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: Ok

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.1	72°F	
After Filter	-10.5"	-	70°F	

Blower Outlet Pressure: 0 PSI Hours: 30075.0

SSVM VAPOR MONITORING POINTS **DATE:** 7.26.17

BAROMETRIC PRESSURE (inches Hg): 30.21

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: OFFLINE HEAT EXCHANGE FAN:

KO TANK: KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: OUTLET:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM REMAINS OFFLINE PENDING REPAIR.

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	68° F	
786SVM-1	-34"	0.3	66° F	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O

INLET TEMP: 84° F VACUUM: 4.0" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 180° F PRESSURE: 1.5 PSI

CARBON TEMP: 146°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

NO BADGE — WILL RETURN 8.1

SSVM VAPOR MONITORING POINTS **DATE:** 8.1.17

BAROMETRIC PRESSURE (inches Hg): 30.09

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-16"	0.6	78° F	
774SVM-2	-14"	0.3	82°F	
774SVM-1	-16"	0.3	73°F	

SYSTEM OPERATION: HEAT EXCHANGE FAN: Ok

KO TANK: NO H_2O KO TANK INLET PRESSURE: -13" Hg

SOLBERG FILTER (PRESSURE) INLET: 0.5" Hg OUTLET: 5.5" Hg

CARBON TEMP: PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:
- TURN ON MOMENTARILY FOR READINGS
- RAN WITHOUT ISSUE FOR ~5 MINUTES → NOISE RETURNED
  - ↳ RUBBING SOUND AS MOTOR CAME TO A STOP
- BARRY SOULA DIAGNOSED AS BEARING. SYSTEM LEFT OFFLINE

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	-64"	0.3	62°	
786SVM-1	-34"	0.3	68°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: Ok

KO TANK: NO H_2O

INLET TEMP: 78° F VACUUM: -2.5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 183°F PRESSURE: 1.5 PSI

CARBON TEMP: 152° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	10.0"	0.7	72° F	
After Filter	10.5"	-	70° F	

Blower Outlet Pressure: 0 PSI Hours: 30342.5

SSVM VAPOR MONITORING POINTS **DATE:** 8.15.17

BAROMETRIC PRESSURE (inches Hg): 30.04

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: OFF HEAT EXCHANGE FAN:

KO TANK: KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: OUTLET:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: [illegible]

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
~~785SVM-1~~ JM (786SVM-1)	-34"	0.5	62°	
~~786SVM-1~~ JM (785SVM-1)	-64"	0.3	68°	

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: 78°F VACUUM: 30" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 180°F PRESSURE: 125 PSI

CARBON TEMP: 146°F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS: • FLEX HOSE TO HEAT EXCHANGER SLIGHTLY OUT OF ROUND
• HAS SHOWN OVER TIME
• WILL NEED TO REPLACE
• READINGS NORMAL → SYSTEM QUIETER THAN USUAL

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	10.0"	0.7	70°F	
After Filter	10.5"	-	70°F	

Blower Outlet Pressure: 0 PSI Hours: 30675.9

SSVM VAPOR MONITORING POINTS **DATE:** 8.31.17

BAROMETRIC PRESSURE (inches Hg): 29.99

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK: KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: OUTLET:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM REMAINS OFFLINE PENDING REPAIR

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1	64"	0.3	62°	
786SVM-1	34"	0.3	64°	

SYSTEM OPERATION: LABORED HEAT EXCHANGE FAN:

KO TANK: NO H_2O

INLET TEMP: 74°F VACUUM: 13.5" Hg VELOCITY: 3.0" H_2O

DISCHARGE TEMP: 175°F PRESSURE: 1.5 PSI

CARBON TEMP: PRE-PID: 0.0 POST-PID: 0.0

COMMENTS: SYSTEM POWERED OFF – BEARINGS LIKELY NEED REPAR.

• REPLACEMENT DISCHARGE HOSE — 4" DIA, 4' LONG

B101 (ST-006) SYSTEM OPERATION: OK

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	-10"	0.7	70°	
After Filter	-10.5"	-	70°	

Blower Outlet Pressure: 0 PSI Hours: 31061.1

SSVM VAPOR MONITORING POINTS **DATE:** 9.15.17

BAROMETRIC PRESSURE (inches Hg): 30.10

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK: KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: OUTLET:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM REMAINS OFFLINE PENDING REPAIRS

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM REMAINS OFFLINE PENDING REPAIRS.

B101 (ST-006) SYSTEM OPERATION: ok

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter	10.0"	0.7	70°	
After Filter	10.5"	-	70°	

Blower Outlet Pressure: 0 PSI Hours: 31419.1

SYSTEM POWERED DOWN AHEAD OF REBOUND SAMPLING

SSVM VAPOR MONITORING POINTS **DATE:** 9.25.17

BAROMETRIC PRESSURE (inches Hg): 30.10

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK: KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: OUTLET:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

SYSTEM OFFLINE PENDING REPAIRS

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

SYSTEM OFFLINE PENDING REPAIRS

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

SYSTEM OFFLINE AHEAD OF REBOUND SAMPLING.

SSVM VAPOR MONITORING POINTS **DATE:** 10.13.17

BAROMETRIC PRESSURE (inches Hg): 30.39

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-18"	0.5	68°	
774SVM-2	-16"	0.3	66°	
774SVM-1	-18"	0.3	66°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: No H_2O KO TANK INLET PRESSURE: -7.5" Hg

SOLBERG FILTER (PRESSURE) INLET: 0.5" Hg OUTLET: 5.0" Hg

CARBON TEMP: 104° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS: RESTARTED AFTER REPAIRS. SYSTEM RUNNING WELL AFTER 45 MINUTES.

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM OFFLINE

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

SYSTEM OFFLINE

SSVM VAPOR MONITORING POINTS **DATE:** 10.25.17

BAROMETRIC PRESSURE (inches Hg): 29.74

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-16"	0.5	68°	
774SVM-2	-14"	0.2	68°	
774SVM-1	-16"	0.3	66°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -13" Hg

SOLBERG FILTER (PRESSURE) INLET: 0.5 "Hg OUTLET: 0.5" Hg

CARBON TEMP: 112° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM OFFLINE

B101 (ST-006) SYSTEM OPERATION: OFFLINE

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

SYSTEM OFFLINE → REBOUND GAS SAMPLING 10.25

SSVM VAPOR MONITORING POINTS **DATE:** 11.6.17

BAROMETRIC PRESSURE (inches Hg): 29.96

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20"	0.8	64°	
774SVM-2	-20"	0.1	66°	
774SVM-1	-20"	0.3	62°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: NO H_2O KO TANK INLET PRESSURE: -13.5"

SOLBERG FILTER (PRESSURE) INLET: 0.5" OUTLET: -6.5"

CARBON TEMP: 106° F PRE-PID: 0.0 POST-PID: 0.0

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: OFF HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM OFFLINE PENDING REPAIRS

B101 (ST-006) SYSTEM OPERATION: OFF

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

SYSTEM OFFLINE PENDING SOIL GAS SAMPLING RESULTS

SSVM VAPOR MONITORING POINTS **DATE:** 11/29/2017

BAROMETRIC PRESSURE (inches Hg): 30.16

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1	-20	0.8	50	
774SVM-2	-20	0.1	50	
774SVM-1	-20	0.4	48	

SYSTEM OPERATION: Off on arrival HEAT EXCHANGE FAN:

KO TANK: No H2O KO TANK INLET PRESSURE: -5 in/Hg

SOLBERG FILTER (PRESSURE) INLET: 0.5 in/Hg OUTLET: 4.0 in/Hg

CARBON TEMP: 78° PRE-PID: No PID POST-PID: No PID

COMMENTS: Temperature cold start
System off on arrival: Knock out tank high level sensor

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: SYSTEM OFFLINE PENDING REPAIRS

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

SYSTEM REMAINS OFFLINE

SSVM VAPOR MONITORING POINTS **DATE:** 12/05/17

BAROMETRIC PRESSURE (inches Hg): 29.95

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
776SVM-1	20	0.8	59	
774SVM-2	20	0.1	63	
774SVM-1	20	0.4	54	

SYSTEM OPERATION: HEAT EXCHANGE FAN: On

KO TANK: No water KO TANK INLET PRESSURE: 16

SOLBERG FILTER (PRESSURE) INLET: 0.5 OUTLET: 6.5

CARBON TEMP: 105° F PRE-PID: No PID POST-PID: No PID

COMMENTS: outlet temperature pre heat-exchange fan = 120° F

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS: System offline pending repairs

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

System remains offline

SSVM VAPOR MONITORING POINTS **DATE:** 12/18/17

BAROMETRIC PRESSURE (inches Hg): 29.76

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
776SVM-1	21	0.8	59	
774SVM-2	20	0.05	58	
774SVM-1	22	0.35	54	

SYSTEM OPERATION: HEAT EXCHANGE FAN: On

KO TANK: No water KO TANK INLET PRESSURE: 14

SOLBERG FILTER (PRESSURE) INLET: 1.0 OUTLET: 4.5

CARBON TEMP: 118° F PRE-PID: No PID POST-PID: No PID

COMMENTS:

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

System offline pending repairs

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

System remains offline

SSVM VAPOR MONITORING POINTS **DATE:** 1/29/18

BAROMETRIC PRESSURE (inches Hg): 30.19

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
776SVM-1	-22 in	0.8	45*	
774SVM-2	-20 in	0.0	45*	
774SVM-1	-24 in	0.4	46*	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: No H2O KO TANK INLET PRESSURE: -4 in Hg

SOLBERG FILTER (PRESSURE) INLET: 0.75 OUTLET: 4.0

CARBON TEMP: 53° PRE-PID: No PID POST-PID: No PID

COMMENTS:

*-System off on arrival. High level KO Tank alarm. Measurements are for cold start

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

System Remains offline

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

System Shutdown December 2017

SSVM VAPOR MONITORING POINTS **DATE:** 2/15/2018

BAROMETRIC PRESSURE (inches Hg): 29.73

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
776SVM-1	-22 in	0.8	48*	
774SVM-2	-21 in	0.0	49*	
774SVM-1	-24 in	0.4	47*	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: No H2O KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: 2.0 OUTLET: 4.0

CARBON TEMP: 79° PRE-PID: No PID POST-PID: No PID

COMMENTS:

* System off upon arrival. High level KO tank alarm. Measurements are for cold start

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

System Remains offline

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

System Shut down December 2017

SSVM VAPOR MONITORING POINTS **DATE:** 3/8/2018

BAROMETRIC PRESSURE (inches Hg): 29.73

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
776SVM-1	-23	— A	42°	
774SVM-2	-20	0.0	40°	
774SVM-1	-26	0.5	46°	

SYSTEM OPERATION: OK HEAT EXCHANGE FAN: OK

KO TANK: No H2O KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: 1 OUTLET: 4

CARBON TEMP: 72° PRE-PID: No PID POST-PID: No PID

COMMENTS:

* System off upon arrival. High level KO tank alarm. Measurements are for a cold start.

A - Needle on pressure gauge bounces from laying below 0 - 1.5

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

System Remains offline

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature (°F)	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

System Remains offline

SSVM VAPOR MONITORING POINTS **DATE:** 3/21/2018

BAROMETRIC PRESSURE (inches Hg):

B774/776

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
776SVM-1				
774SVM-2				
774SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK: KO TANK INLET PRESSURE:

SOLBERG FILTER (PRESSURE) INLET: OUTLET:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

System off for sub-slab, indoor, and outdoor air sampling.

B785/786

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
785SVM-1				
786SVM-1				

SYSTEM OPERATION: HEAT EXCHANGE FAN:

KO TANK:

INLET TEMP: VACUUM: VELOCITY:

DISCHARGE TEMP: PRESSURE:

CARBON TEMP: PRE-PID: POST-PID:

COMMENTS:

System offline pending repair.

B101 (ST-006) SYSTEM OPERATION:

Vacuum Gage ID	Vacuum (inch w.g.)	Differential Pressure (inch w.g.)	Temperature	Flow (cfm)
Before Filter				
After Filter		-		

Blower Outlet Pressure: Hours:

System remains offline.

ATTACHMENT 1
TABLES 1-4 FROM FINAL RECORD OF DECISION (AFCEC, SEPTEMBER 2016)
(PROVIDED ELECTRONICALLY ON CD)

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FINAL
RECORD OF DECISION

SOIL VAPOR INTRUSION AT SD-052-02 BUILDING 775 SITE (BUILDINGS 774 AND 776) AND SD-052-01 APRON 2 CHLORINATED PLUME SITE (BUILDINGS 785 AND 786) FORMER GRIFFISS AIR FORCE BASE ROME, NEW YORK



Air Force Civil Engineer Center
Building 171
2261 Hughes Avenue, Suite 155,
Joint Base San Antonio Lackland, TX

September 2016

Table 1
Building 774 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	774IA-1			774IA-2			774IA-3		774IA-4		774IA-5	774OA-1			774SSV-1		774SSV-2		774SSV-3	774SSV-4
Sample ID	774-IA1	774IA1BB	774IA1CA	774-IA2	774IA2BB	774IA2CA	774IA3BB	774IA3CA	774IA4BB	774IA4CA	774IA5CA	774-OA1	774OA1BB	774OA1CA	774-SSV1	774SSV1BB	774-SSV2	774SSV2BB	774SSV3BB	774SSV4BB
Sample Type	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor	SSV	SSV	SSV	SSV	SSV	SSV
Sample Date	12/20/2006	4/15/2008	5/29/2008	12/20/2006	4/15/2008	5/29/2008	4/15/2008	5/29/2008	4/15/2008	5/29/2008	5/29/2008	12/20/2006	4/15/2008	5/29/2008	10/24/2006	4/15/2008	10/24/2006	4/15/2008	4/15/2008	4/15/2008
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	1	1	1	1	1
Sample Collection Duration (hr)	8	12	12	8	12	12	12	12	12	12	12	8	8	8	8	12	8	12	12	12
Volatiles (TO-15) in µg/m³																				
cis-1,2-dichloroethene	U	1.57 J	0.685	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.64	0.60
trichloroethylene (tce)	2.4	**347***	3.99*	3.4*	**559***	4.21*	**389***	4.7*	**236***	2.13	6.61*	U	0.492	U	**1700***	**490***	**810***	**590***	66*	69*
vinyl chloride	U	0.13 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes

J - The analyte was positively identified, but the quantitation is an approximation

U - Not detected

µg/m³ microgram per cubic meter

Exceedance of the Air Force Industrial/Commercial SVI Screening Level

*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

Table 2

Building 776 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	776IA-1		776IA-2		776IA-3	776IA-4	776SSV-1		776SSV-2		776SSV-3	776SSV-4
Sample ID	776-IA1	776IA1BB	776-IA2	776IA2BB	776IA3BB	776IA4BB	776-SSV1	776SSV1BB	776-SSV2	776SSV2BB	776SSV3BB	776SSV4BB
Sample Type	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	SSV	SSV	SSV	SSV	SSV	SSV
Sample Date	12/20/2006	4/15/2008	12/20/2006	4/15/2008	4/15/2008	12/20/2006	10/24/2006	4/15/2008	10/24/2006	4/15/2008	4/15/2008	4/15/2008
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	5	5	5	5	5	5	1	1	1	1	1	1
Sample Collection Duration (hr)	8	12	8	12	12	12	8	12	8	12	12	12
Volatiles (TO-15) in µg/m³												
cis-1.2-dichloroethene	U	U	U	U	U	U	U	U	U	U	0.64	U
trichloroethylene (tce)	4.4*	3.28 M*	2.9	2.35	2.51	2.62	**3000***	6.9	**700***	110*	120*	230*
vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U

Notes:

M - A matrix effect was reported in the sample

U - Not detected

µg/m³: microgram per cubic meter

Exceedance of the Air Force Industrial/Commercial SVI Screening Levels

*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

Table 3

Building 785 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	785IA-1	7851A-2	785IA-3	786OA-1		785SSV-1		785SSV-2		785SSV-3	785SSV-4	785SSV-5	785SSV-6
Sample ID	785-IA1	785-IA2	785IA3BB	786-OA1	786OA1BB	B785-SSV1	785SSV1BB	B785-SSV2	785SSV2BB	785SSV3BB	785SSV4BB	785SSV5BB	785SSV6BB
Sample Type	Indoor	Indoor	Indoor	Outdoor	Outdoor	SSV	SSV	SSV	SSV	SSV	SSV	SSV	SSV
Sample Date	12/20/2006	12/20/2006	4/17/2008	12/20/2006	4/18/2008	10/24/2006	4/17/2008	10/24/2006	4/17/2008	4/17/2008	4/17/2008	4/17/2008	4/17/2008
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	5	5	5	5	5	1	1	1	1	1	1	1	1
Sample Collection Duration (hr)	12	12	12	12	12	8	12	8	12	12	12	12	12
Volatiles (TO-15) in µg/m^3													
1.2.4-trimethylbenzene	NA	NA	1.30	U	0.949	NA	1.9 M	NA	2.3 M	2.9 M	4 M	3.4 M	9 M
1.3.5-trimethylbenzene	NA	NA	0.650 F	U	U	U	0.70 F	U	0.9 M	1.1 M	1.6 M	1.6 M	3.5 M
benzene	1.1	1.1	0.617	0.96	0.617	U	10	15	3.5 J	17	19 M	14	20
cis-1,2-dichloroethene	U	U	U	U	U	75	13	U	0.69 J	0.48 F	14 M	0.52 F	56
ethylbenzene	NA	NA	0.441 F	NA	U	U	1 M	U	1.9 M	1.8 M	2.4 M	3 M	4 M
m,p-xylene (sum of isomers)	NA	NA	1.28 F	NA	0.883 F	U	2.7 M	U	4.4 M	6.3 M	8.8 M	10 F	12 F
Naphthalene	NA	NA	1.33	NA	U	NA	1.2 M	NA	1.9 M	1.2 M	1.4 M	1.8 M	1.6 M
o-xylene	NA	NA	0.485 F	NA	0.441 F	U	1.1 M	U	1.6 M	1.9 M	2.8 M	4.9 M	3.3 M
tetrachloroethylene (pce)	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	NA	NA	2.72	NA	1.49	60	5.5 M	13	5.1 M	12 M	18 M	64	28 M
trichloroethylene (tce)	U	U	0.655	U	U	**11000***	110*	**2300***	**430 J***	220*	11 M	180*	**2200***
vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:

U - Not detected

F - The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL).

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

Exceedance of the Air Force Industrial/Commercial SVI Screening Levels

*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

Table 4
Building 786 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	786IA-1	786IA-2	786IA-3	786OA-1		786SSV-1		786SSV-2		786SSV-3	786SSV-4	786SSV-5	786SSV-6
Sample ID	**786-IA1**	**786-IA2**	**786IA3BB**	**786-OA1**	**786OA1BB**	**B786-SSV1**	**786SSV1BB**	**B786-SSV2**	**786SSV2BB**	**786SSV3BB**	**786SSV4BB**	**786SSV5BB**	**786SSV6BB**
Sample Type	**Indoor**	**Indoor**	**Indoor**	**Outdoor**	**Outdoor**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date	**12/20/2006**	**12/20/2006**	**4/18/2008**	**12/20/2006**	**4/18/2008**	**10/24/2006**	**4/18/2008**	**10/24/2006**	**4/18/2008**	**4/18/2008**	**4/18/2008**	**4/18/2008**	**4/18/2008**
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	**5**	**5**	**5**	**5**	**5**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**8**	**8**	**12**	**12**	**12**	**8**	**12**	**8**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in µg/m³													
1,2,4-trimethylbenzene	NA	U	0.749	U	0.949	NA	3.9 M	NA	4.8 M	4.5 M	4.2 M	170	4.8 M
1,3,5-trimethylbenzene	NA	U	U	U	U	U	1.6	U	1.8 M	1.7 M	1.5 M	58	2 M
benzene	1.2	1.2	0.747	0.96	0.617	U	29	24 J	21	21	35	36 M	16
cis-1,2-dichloroethene	U	U	U	U	U	480	230	U	12	1.2 M	U	3.1 M	5.4
ethylbenzene	NA	NA	U	NA	U	U	2.3 M	U	3.1 M	2.3 M	2.9 M	29 M	2.3 M
m,p-xylene (sum of isomers)	NA	NA	0.750 F	NA	0.883 F	U	9 M	U	8.4 F	8.9 M	8.4 F	91 M	9.2 M
Naphthalene	NA	NA	1.01 J	NA	U	NA	1.3 M	NA	2.1 M	2.6 M	1.2 M	27 M	1.5 M
o-xylene	NA	NA	U	NA	0.441 F	U	3 M	U	3.9 M	2.8 M	3.8 M	57 M	3 M
tetrachloroethylene (pce)	U	0.896 F	U	U	U	**2200**	70	U	0.97 F	U	U	57 M	23
toluene	NA	NA	1.92	NA	1.49	U	21	U	14	12	20	75 M	15
trichloroethylene (tce)	0.43 J	U	U	U	U	**81000***	**19,000 J***	**4,700 J***	**1500***	69*	320*	**3600***	**6,500 M***
vinyl chloride	U	U	U	U	U	U	M	U	U	U	U	U	U

Notes:
U - Not detected.
F - The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL)
J- The analyte was positvely identified, but the quantitation is an approximation
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of the Air Force Industrial/Commercial SVI Screening Levels
*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

ATTACHMENT 2
TABLES 3-2 THROUGH 3-5 FROM FINAL QUARTERLY OPERATIONS AND MAINTENANCE REPORT (2ND QUARTER/CALENDAR YEAR 2016/APRIL - JUNE) (CAPE/FPM, JULY 2016) (PROVIDED ELECTRONICALLY ON CD)

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FINAL

QUARTERLY OPERATIONS AND MAINTENANCE REPORT
SD-052-02 BUILDING 775 SITE (BUILDINGS 774 AND 776) AND
SD-052-01 APRON 2 CHLORINATED PLUME SITE (BUILDINGS 785 AND 786)
SUB-SLAB VAPOR MITIGATION SYSTEMS
(2ND QUARTER / CALENDAR YEAR 2016 / APRIL - JUNE)

FORMER GRIFFISS AIR FORCE BASE
ROME, NEW YORK

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Contract Number FA8903-10-D-8595/Delivery Order 0014

July 2016

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			774VMP-1											
Sample ID	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	774VMP0101AA	774VMP0101AB	774VMP0101AC	774VMP0101AD	774VMP0101AG	774VMP0101HA	774VMP0101IA	774VMP0101JA	774VMP0101KA	774VMP0101MA	774VMP0101NA	774VMP0101PA
Sample Type			sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab
Sample Date			4-May-2011	24-Aug-2011	21-Oct-2011	25-Jan-2012	6-Aug-2012	21-Feb-2013	8-Aug-2013	30-Jan-2014	17-Jul-2014	22-Jan-2015	31-Aug-2015	3-Feb-2016
Sample Depth (ft bgs / ags)			1	1	1	1	1	1	1	1	1	1	1	1
Sample Collection Duration (hr)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	1.1	U	U	22,000	U	0.84 J	U	0.2 J	U	0.29 J
1,1-dichloroethane	77	7.7	0.53 J	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	0.27 J	U	U
1,2,4-trimethylbenzene	310	31	6.7	3.2	U	12	1.8	1.3 J	U	U	U	0.35 J	1.8	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	0.37 J	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.5	0.9	U	3.2 J	0.47 J	0.52 J	U	U	U	U	0.49 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	1.4 J	0.40 J	U	U	U	U	U	0.65 J	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	0.31 J	U	U	0.17 J	1 J	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	1.9	U	2.6 J	2.2	15	1.1	U	U	U	0.18 J	U
4-ethyltoluene	NA	NA	4.6	1.2	U	3.2 J	0.56 J	0.26 J	U	U	U	0.14 J	0.52 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.28 J	U	U	U	U	U	0.81 J	U
acetone	1,400,000	140,000	54	31	18	64	30 B	86	28	43 J	U	64	20	22
benzene	16	1.6	1.6	4.3	U	U	0.44 J	1.3	0.64	0.49 J	U	0.89	0.43 J	0.45 J
carbon disulfide	31,000	3,100	U	0.66	U	U	U	0.42 J	1.3 J	U	U	0.89 J	9	0.71 J
carbon tetrachloride	20	2	1	0.70 J	U	U	0.50 J	0.76 J	0.71 J	0.55 J	U	0.57 J	0.52 J	0.39 J
chlorobenzene	2,200	220	U	0.51 J	U	U	U	U	0.15 J	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	18	9.1	U	U	0.38 J	U	0.42 J	0.82 J	U	U	0.49 J	U
chloromethane	3,900	390	3.5	U	U	U	1.1	2.1	1.2	1.5	U	1.3	1.1	0.95 J
cis-1,2-dichloroethene	NA	NA	0.89	0.77	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	1.1 J	U	U	0.42 J	U	U	U	0.49 J	U
cyclohexane	260,000	26,000	4.8	7.8	2.4	U	2.3	18	0.91	1.1	U	1.1	0.59 J	1.3
ethyl acetate	3,100	310	U	U	0.77 J	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.4	2.8	U	4.1 J	0.95	1.8	0.97	U	U	0.25 J	6.2	0.22 J
freon 11 (trichlorofluoromethane)	31,000	3,100	31	19	2.0	1.9 J	2.3	2 J	3.7	2.4	15 J	1.6	2.1	5.3
freon 113 (freon TF)	1,300,000	130,000	U	0.78 J	U	U	0.63 J	0.65 J	0.50 J	0.62 J	U	0.97 J	0.54 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.1	2.8	2.5	2.4 J	2.8	3.4 J	2.3 J	3.1	2.8 J	2.5	2.3 J	1.7 J
freon 22	2,200,000	220,000	NA	NA	NA	300	83	7.3 J	17	8.2	1100	5.1	U	3.5
heptane	NA	NA	U	3.7	U	U	0.68 J	18	0.57 J	0.51 J	U	0.44 J	U	0.51 J
hexane	31,000	3,100	U	7.9	U	5.1	1.2	27	0.67 J	0.71	U	0.51 J	0.21 J	0.5 J
isopropyl alcohol	NA	NA	U	U	2.8	17 J	22	65	15	4.0 J	9.0 J	13	7.4 J	4.5 J
m,p-xylene (sum of isomers)	4,400	440	5.3	9	U	12	3.1	6.4	2.5	U	U	0.56 J	6.3	0.62 J
methyl butyl ketone	NA	NA	U	U	U	U	0.43 J	U	0.58 J	U	U	1.2 J	U	0.56 J
methyl ethyl ketone	220,000	22,000	1.7	4.9	1.7	1.9 J	3.2 B	6.1	3.2	2.5	U	7.2	2.6	3.4
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.1 J	U	0.61 J	0.40 J	U	1.2 J	0.8 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	0.99	0.46 J	U	0.72 J	0.77 J	0.50 J	0.69 J	U	1.3 J	0.53 J	2.3
Naphthalene	3.6	0.36	U	U	U	U	0.60 J	1.1 J	U	U	U	U	0.54 J	U
n-Butane	NA	NA	NA	NA	NA	U	1.4	3.7	1.0 J	12	U	1.9	1.1 J	1.9
n-Propylbenzene	44,000	4,400	NA	NA	NA	2.2 J	0.36 J	U	U	U	U	U	0.45 J	U
o-xylene	4,400	440	2.4	2.4	U	7.9	1.2	2	0.63 J	U	U	0.27 J	2.3	0.26 J
styrene	44,000	4,400	U	U	U	U	0.48 J	0.41 J	U	U	U	0.12 J	0.54 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	1.4 J	1.4 J	U	U	0.96 J	0.77 J	U
tetrachloroethylene (pce)	470	47	0.97 J	1	U	U	U	U	U	U	U	U	U	0.2 J
tetrahydrofuran	NA	NA	3.1	U	U	U	2.2 J	U	U	U	U	0.75 J	U	U
toluene	220,000	22,000	1.6	17	2.1	5.2	4.2	7.4	3.3	0.69 J	1.4 J	1	3.4	1.5
trichloroethylene (tce)	30	3	580	410	3.7	4.8 J	1.0 J	0.24 J	0.18 J	6.8	U	0.71 J	0.5 J	1.9
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	774VMP-2											
Sample ID			**774VMP0201AA**	**774VMP0201AB**	**774VMP0201AC**	**774VMP0201AD**	**774VMP0201AG**	**774VMP0201HA**	**774VMP0201IA**	**774VMP0201JA**	**774VMP0201KA**	**774VMP0201MA**	**774VMP0201NA**	**774VMP0201PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	85	2.4	U	U	2.6	U	U	U	U	U	0.66 JM	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	12	4	0.65 J	6.0 J	1.7	0.45 J	0.34 J	0.31 J	U	0.28 J	1.8	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	3.9	2	U	U	0.43 J	U	U	U	U	0.11 J	0.5 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	0.37 J	U	U	U	U	U	0.71 J	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	2.2	U	2.1 J	U	12	U	0.26 J	U	U	0.21 J	U
4-ethyltoluene	NA	NA	8.5	1.5	U	U	0.52 J	U	U	U	U	U	0.64 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.34 J	U	U	0.47 J	U	U	0.28 J	U
acetone	1,400,000	140,000	53	U	11	110 J	43	82	22	47 J	U	17	29	8.1 J
benzene	16	1.6	6	4.4	U	U	0.53 J	1.2	0.34 J	0.79	U	0.74	0.41 J	0.48 J
carbon disulfide	31,000	3,100	0.95	0.6	U	U	1.2 J	U	U	U	U	U	0.19 JM	U
carbon tetrachloride	20	2	1.4	0.70 J	U	U	0.59 J	U	1.0 J	0.78 J	U	0.54 J	0.67 J	0.69 J
chlorobenzene	2,200	220	U	0.56 J	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	45	1.8	0.69 J	U	0.69 J	U	0.76 J	1.1	U	0.23 J	0.58 J	U
chloromethane	3,900	390	U	U	U	U	0.77 J	1.9	1.3	1.0 J	U	1.1	0.82 J	U
cis-1,2-dichloroethene	NA	NA	0.73	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	0.43 J	U
cyclohexane	260,000	26,000	5.9	10	3.5	U	1.8	12	1.3	1.6 J	U	0.98	0.19 JM	U
ethyl acetate	3,100	310	U	0.62 J	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.6	3.2	U	1.9 J	0.94	1.5	0.31 J	0.25 J	U	0.22 J	5.2	U
freon 11 (trichlorofluoromethane)	31,000	3,100	400	22	2.2	U	3.8	1.8	7.3	3.5	14 J	1.9	3	4.3
freon 113 (freon TF)	1,300,000	130,000	0.86 J	0.78 J	U	U	0.61 J	U	0.51 J	0.82 J	U	0.82 J	0.66 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	2.8	2.1	3.1 J	2.5	2.9	2.4 J	3.4	U	2.6	2.9	1.9 J
freon 22	2,200,000	220,000	NA	NA	NA	750	130	6.7 J	27	U	1300 J	U	U	3
heptane	NA	NA	U	4.2	6.2	U	0.88	18	0.32 J	0.75 J	U	0.38 J	0.29 J	U
hexane	31,000	3,100	U	8.2	U	U	0.77	23	0.49 J	0.83	U	0.55 J	0.37 J	0.36 J
isopropyl alcohol	NA	NA	4.4	15	2.4	20 J	30	39	44	7.2 J	12 J	9.3 J	7.1 J	2.7 J
m,p-xylene (sum of isomers)	4,400	440	5.1	12	0.53 J	5.5 J	3.1	4.7	0.89 J	0.63 J	U	0.57 J	5.7	U
methyl butyl ketone	NA	NA	U	U	U	U	U	U	0.19 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	4.3	3	U	U	3.4 B	5.4	1.2 J	2.0	U	U	1.9	U
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.3 J	U	0.44 J	0.45 J	U	U	U	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	U	U	U	0.59 J	U	0.48 J	1.1 J	U	0.72 J	0.45 J	1.3 J
Naphthalene	3.6	0.36	U	U	U	U	1.9 J	U	U	U	U	U	0.82 J	U
n-Butane	NA	NA	NA	NA	NA	U	1.2 J	3.6	4.7	18 J	U	3.4	1.9	1.6
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	0.31 J	U	U	U	U	U	0.46 J	U
o-xylene	4,400	440	2.2	2.8	U	3.6 J	1.1	1.2	0.34 J	0.23 J	U	0.2 J	2.2	U
styrene	44,000	4,400	U	U	U	U	0.44 J	U	0.18 J	U	U	0.078 J	0.55 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.63 J	U
tetrachloroethylene (pce)	470	47	2.8	U	U	U	U	U	U	0.25 J	U	U	U	U
tetrahydrofuran	NA	NA	6.7	U	U	U	1.4 J	U	U	U	U	U	U	U
toluene	220,000	22,000	3.2	17	1.4	4.8 J	3.9	4.7	1.4	1.2 J	U	0.91	4.1	0.64 J
trichloroethylene (tce)	30	3	2,900	84	11	4.2 J	20	U	0.21 J	3.3 J	U	0.29 J	1.9	0.61 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			774VMP-3											
Sample ID	**Sub-slab Vapor Screening Level* ($\mu g/m^3$)**	**Indoor Air Screening Level* ($\mu g/m^3$)**	**774VMP0301AA**	**774VMP0301AB**	**774VMP0301AC**	**774VMW0301AD**	**774VMP0301AG**	**774VMP0301HA**	**774VMP0301IA**	**774VMP0301JA**	**774VMP0301KA**	**774VMP0301MA**	**774VMP0301NA**	**774VMP0301PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**	**26-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	12	0.67 J	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	6.3	4.1	0.95	U	0.35 J	1.4 J	U	U	U	U	U	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.2	1.8	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	2.3	U	U	U	13	0.22 J	U	U	U	U	U
4-ethyltoluene	NA	NA	4.2	1.6	U	U	U	U	U	U	U	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.27 J	1.8 J	U	U	U	U	U	U
acetone	1,400,000	140,000	17	19	12	30 J	25 B	94	11 J	U	170 J	8 J	U	U
benzene	16	1.6	2.5	3.8	0.39 J	U	0.38 J	2.9 J	0.34 J	U	5.8 J	1.4 J	U	U
carbon disulfide	31,000	3,100	0.95	1.4	U	U	0.32 J	9	0.25 J	U	U	U	U	U
carbon tetrachloride	20	2	0.45	U	U	U	U	U	U	U	U	U	380	U
chlorobenzene	2,200	220	U	0.84	U	U	U	U	0.10 J	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	9.1	U	U	U	0.22 J	U	0.16 J	U	U	U	U	U
chloromethane	3,900	390	U	U	U	U	0.43 J	1.3 J	0.79 J	U	U	1.3 J	U	U
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	6.2	11	4.8	U	0.83	12	0.94	U	12 J	0.44 J	U	U
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.5	3.6	U	U	0.45 J	4 J	0.26 J	U	2.5 J	U	U	U
freon 11 (trichlorofluoromethane)	31,000	3,100	630	120	9.5	21	15	5.4 J	40	15 J	370	8.5	13 J	32 D
freon 113 (freon TF)	1,300,000	130,000	0.86 J	0.78 J	U	U	0.51 J	U	0.45 J	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.6	2.4	3.5 J	2.4 J	3.5 J	2.1 J	U	24 J	3 J	U	U
freon 22	2,200,000	220,000	NA	NA	NA	880	26	11 J	11	U	4000	3.1 J	U	9.1 J
heptane	NA	NA	U	3.5	U	U	0.72 J	17	0.23 J	U	U	U	U	U
hexane	31,000	3,100	U	7.5	U	U	1.6	20	0.37 J	U	U	U	U	U
isopropyl alcohol	NA	NA	U	U	U	25 J	4.2 J	65	7.4 J	U	110 J	3 J	8.9 J	U
m,p-xylene (sum of isomers)	4,400	440	4.5	12	1.2 J	U	1.2 J	15	0.66 J	U	5.6 J	U	U	U
methyl butyl ketone	NA	NA	U	U	U	U	0.81 J	U	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	U	U	7.6 J	3.8 B	13	U	U	U	U	U	U
methyl isobutyl ketone	130,000	13,000	U	U	U	U	0.37 J	1.1 J	0.37 J	U	U	U	U	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	U	U	U	2.1	2.3 J	0.51 J	U	U	U	U	U
Naphthalene	3.6	0.36	U	U	U	U	0.68 J	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	NA	U	2.7	3.2 J	0.96 J	U	U	2.1 J	U	U
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	2.2	3.2	U	U	0.38 J	3.7 J	0.26 J	U	U	U	U	U
styrene	44,000	4,400	U	1.4	U	U	0.31 J	U	0.23 J	U	5.0 J	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.3 J	U	0.50 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	U	0.24 J	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	12 J	1.3 J	U	U	U	U	U	U	U
toluene	220,000	22,000	2.3	16	2.2	1.3 J	4.0	12.0	1.1	U	8.6 J	0.68 J	U	U
trichloroethylene (tce)	30	3	300	11	3.0	U	1.0 J	1.3 J	0.33 J	U	9.2 J	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			774-IA											
Sample ID	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	774IA1AD	774IA1AE	774IA1AF	774IA1AG	774IA1AH	774IA1IA	774IA1JA	774IA1KA	774IA1LA	774IA1MA	774IA1NA	774IA1PA
Sample Type			Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Sample Date			5-May-2011	6-Sep-2011	21-Oct-2011	25-Jan-2012	6-Aug-12	21-Feb-13	8-Aug-13	30-Jan-14	17-Jul-14	22-Jan-15	31-Aug-15	3-Feb-16
Sample Depth (ft bgs / ags)			5	5	5	5	5	5	5	5	5	5	5	5
Sample Collection Duration (hr)			12	12	12	12	12	12	12	12	12	12	12	12
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	2.7	1.6	0.65 J	U	U	U	0.28 J	0.32 J	0.20 J	U	0.13 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	0.27 J	U	U	U	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	0.46 J	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	1.6 J	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	U	U	U	0.55 J	0.24 J	U	U	U	U	U
4-ethyltoluene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	52	34	19	28 J	32 B	44	18	47	18 J	11 J	12	17
benzene	16	1.6	1.3	U	U	U	U	0.69	0.31 J	0.80	0.24 J	0.68	0.32 J	0.49 J
carbon disulfide	31,000	3,100	0.66	U	U	U	U	U	U	U	U	U	U	U
carbon tetrachloride	20	2	0.51	0.90 J	U	U	0.45 J	0.46 J	0.44 J	0.53 J	0.49 J	0.45 J	0.43 J	0.39 J
chlorobenzene	2,200	220	0.7	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	0.2 J	U	U	U	U	U	U
chloroform	5.3	0.53	0.55 J	U	U	U	0.28 J	0.32 J	0.18 J	0.57 J	U	U	0.18 J	U
chloromethane	3,900	390	U	1.2	U	1.7 J	1.2	2.7	1.0 J	1.7	1.2 J	1.1	1	1.4
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.21 J	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	1.3	U	U	U	U	0.57 J	0.14 J	U	U	U	U	U
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	0.84	0.57 J	U	U	U	0.19 J	0.24 J	0.26 J	0.23 J	0.15 J	0.19 J	0.15 J
freon 11 (trichlorofluoromethane)	31,000	3,100	33	77	4.2	8.9	5.0	3.2	40	16	18	2.2	2.5	38
freon 113 (freon TF)	1,300,000	130,000	U	0.86 J	U	U	0.56 J	0.72 J	0.55 J	0.65 J	U	0.67 J	0.49 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.8	2.4	U	2.4 J	3	2.2 J	3.0	2.9 J	2.6	2.4 J	2.2 J
freon 22	2,200,000	220,000	NA	NA	NA	350	40	10 J	11	13	330	2	U	6.8
heptane	NA	NA	1.7	U	U	U	U	0.66 J	0.21 J	0.51 J	U	U	U	U
hexane	31,000	3,100	33	U	U	U	U	1.9	0.42 J	0.74	0.34 J	U	0.28 J	0.56 J
isopropyl alcohol	NA	NA	11	32	9.9	29 J	8.3 J	26	14	26	11 J	1.6 J	U	3 J
m,p-xylene (sum of isomers)	4,400	440	2.4	1.2 J	0.57 J	U	U	0.44 J	0.65 J	0.61 J	0.45 J	U	0.5 J	U
methyl butyl ketone	NA	NA	U	U	U	U	0.62 J	U	0.61 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	2.8	U	2.5 J	2.2 B	15	2.6	1.6	3.5 J	2.1	0.93 J	1.9
methyl isobutyl ketone	130,000	13,000	U	U	U	U	0.37 J	1 J	0.35 J	0.30 J	U	U	U	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	0.93 J	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	1.1	U	U	0.45 J	1 J	0.59 J	0.76 J	U	0.88 J	0.84 J	2.7
Naphthalene	3.6	0.36	U	U	U	U	U	U	U	U	U	U	0.48 J	U
n-Butane	NA	NA	NA	NA	NA	U	0.32 J	2.5	1.0 J	18	U	2.1	1.1 J	1.4
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	0.71	0.49 J	U	U	U	0.18 J	0.27 J	0.23 J	U	U	0.18 J	U
styrene	44,000	4,400	0.78	0.56 J	U	U	U	0.18 J	0.24 J	0.16 J	0.43 J	U	0.13 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	1.7 J	0.69 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
toluene	220,000	22,000	5.1	2.5	1.3	0.76 J	0.47 J	0.71 J	1	1.2	0.65 J	0.58 J	0.85	1.2
trichloroethylene (tce)	30	3	4.4	2.3	0.87	1.5 J	0.35 J	0.22 J	U	0.34 J	U	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776VMP-1											
Sample ID			**776VMP0101AA**	**776VMP0101AB**	**776VMP0101AC**	**776VMP0101AD**	**776VMP0101AG**	**776VMP0101HA**	**776VMP0101IA**	**776VMP0101JA**	**776VMP0101KA**	**776VMP0101MA**	**776VMP0101NA**	**776VMP0101PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**9-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	4.5	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	9.0	3.5	U	U	0.46 J	0.66 J	0.27 J	U	U	1.3	2.3	U
1,2-dichloroethane	4.7	0.47	U	0.45 J	U	U	0.32 J	U	U	U	U	U	0.22 J	U
1,3,5-trimethylbenzene	NA	NA	3.8	1.6	U	U	U	U	U	U	U	0.4 J	0.66 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	1 J	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	0.38 J	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	0.99 J	12 J	U
2,2,4-trimethylpentane	NA	NA	U	U	0.47 J	U	U	6.5	0.18 J	U	U	U	U	U
4-ethyltoluene	NA	NA	7.2	0.9	U	U	U	U	U	U	U	0.55 J	0.79 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.33 J	U	U	U	U	1.7	0.34 J	U
acetone	1,400,000	140,000	25	39	39	23	57	37	26	11 J	24	21	38	21 J
benzene	16	1.6	1.0	0.55	1.3	0.52 J	0.43 J	0.87	0.30 J	0.68	0.26 J	0.82	0.46 J	0.87 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	1.2	0.57	0.44 J	U	9.5	U	0.22 J	U	2.3 J	4.8	2.2	U
carbon tetrachloride	20	2	0.77	0.77 J	U	0.53 J	0.83 J	0.51 J	1.1 J	0.52 J	0.47 J	0.52 J♦	0.6 J	U
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	0.27 J	U
chloroform	5.3	0.53	11	0.79	U	0.27 J	U	U	0.66 J	0.17 J	0.25 J	U	0.54 J	U
chloromethane	3,900	390	U	1.1	U	0.67 J	1.3	1.4	1.2	1.1	0.85 J	0.76 J	0.98 J	U
cis-1,2-dichloroethene	NA	NA	U	9.70	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	0.17 J	0.67 J	U
cyclohexane	260,000	26,000	6.8	1.6	3.0	1.2	2.9	6.6	1.1	0.9	1.1 J	0.47 J	0.34 J	0.61 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.6	0.79	1.6	U	0.92	0.76 J	0.40 J	0.30 J	U	1.40	7.6	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	2.5	1.3	1.4	1.3	1.5	1.2	1.4	1.2 J	1.3 ♦	1.4	0.99 J
freon 113 (freon TF)	1,300,000	130,000	8.6	0.86 J	U	0.70 J	0.65 J	0.73 J	0.54 J	0.69 J	0.63 J	0.43 J	0.83 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	6.6	2.9	2.2	2.9	2.5	2.9	U	3.0	2.7 J	2.7	2.6	2 J
freon 22	2,200,000	220,000	NA	NA	NA	12	13	52 J	3	17	130	4.9	4.2	200
heptane	NA	NA	U	U	1.0	U	0.38 J	8.3	0.20 J	U	U	0.72 J	U	U
hexane	31,000	3,100	U	U	1.9	0.38 J	U	9.8	0.29 J	0.35 J	0.33 J	0.72	1.2	U
isopropyl alcohol	NA	NA	U	21	21	49	46	46	19	24	15 J	18 ♦	40	38 J
m,p-xylene (sum of isomers)	4,400	440	5.4	1.9	4.0	0.23 J	1.8 J	2.4	0.87 J	0.60 J	U	4.9	7.8	U
methyl butyl ketone	NA	NA	U	U	U	U	1.4 J	U	0.63 J	U	U	U	0.7 J	U
methyl ethyl ketone	220,000	22,000	2.9	2.7	1.9	5.9	4.3	3.9	2.8	0.86 J	4	U	4.4	2.6 J
methyl isobutyl ketone	130,000	13,000	2.2	U	U	U	3.1	U	1.1 J	0.22 J	0.28 J	0.91 J	0.92 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	13	0.46 J	0.49 J	0.52 J	1 J	0.47 J	0.67 J	U	0.71 J	0.43 J	U
naphthalene	3.6	0.36	U	U	U	U	3.2 J	U	0.61 J	U	U	U	0.75 J	U
n-Butane	NA	NA	NA	NA	NA	2.4	2.8	2.4	1.1 J	3.3	U	21	5.1	1.1 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.64 J	U
o-xylene	4,400	440	2.5	0.97	1.1	U	0.65 J	0.78 J	0.31 J	0.23 J	U	1.5	3.1	U
styrene	44,000	4,400	1.1	1.1	0.56 J	U	1.0	0.2 J	0.31 J	0.20 J	U	0.3 J♦	0.88	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	1.3 J	2.0 J	1 J	0.89 J	U	U	0.95 J	2.7 J	U
tetrachloroethylene (pce)	470	47	U	2.7	U	U	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	4.8	1.1	U	9.9 J	0.72 J	U	U	U	U	3 J	0.82 J	U
toluene	220,000	22,000	5.6	4.1	6.1	0.40 J	1.5	3.1	1.1	0.85	0.38 J	5.2	5	U
trichloroethylene (tce)	30	3	21	38	U	0.36 J	U	U	U	0.36 J	0.71 J	U	0.81 J	U
vinyl chloride	28	2.8	U	0.81	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776VMP-2											
Sample ID			**776VMP0201AA**	**776VMP0201AB**	**776VMP0201AC**	**776VMP0201AD**	**776VMP0201AG**	**776VMP0201HA**	**776VMP0201IA**	**776VMP0201JA**	**776VMP0201KA**	**776VMP0201MA**	**776VMP0201NA**	**776VMP0201PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**9-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	8.7	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	9.1	3.3	0.65 J	U	0.45 J	0.73 J	2	5.6	2.7	0.3 J	2.6	U
1,2-dichloroethane	4.7	0.47	U	0.49 J	U	U	U	U	U	0.27 J	U	0.22 J	U	U
1,3,5-trimethylbenzene	NA	NA	2.8	1.2	U	U	U	U	0.55 J	1.6	0.74 J	U	0.73 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	44	7.8	U	1.2	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	U	0.24 J	0.56 J	6.5 J	2.1	0.92 ♦	0.80 J	U	0.21 J	U
4-ethyltoluene	NA	NA	5.1	1.0	U	U	U	0.27 J	0.58 JM	1.7	0.81 J	0.15 J	0.82 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	0.49 J	0.41 J	U	U	1.8 ♦	U	U	0.34 J	U
acetone	1,400,000	140,000	17	39	45	20	43	36	38	58	38 ♦	8.8 J	35	U
benzene	16	1.6	1.1	0.45 J	1.5	0.65	0.43 J	0.92	0.7	1.7 ♦	0.60 J♦	0.75	0.41 JM	U
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.98	0.79	0.38 J	0.64 J	0.41 J	0.33 J	3.4	0.44 J♦	U	U	0.7 J♦	U
carbon tetrachloride	20	2	0.77	0.77 J	0.70 J	0.53 J	0.70 J	0.56 J	0.42 J	0.62 J♦	U	0.59 J	0.69 J♦	U
chlorobenzene	2,200	220	U	U	U	0.13 J	U	U	U	0.31 J♦	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	8.3	U	U	0.30 J	0.22 J	U	0.24 J♦	0.22 J	0.33 J♦	U	0.62 J	U
chloromethane	3,900	390	U	1.2	U	0.85 J	1.4	1.7	1.4♦	1.8	1.3 J	1.2	0.87 J	U
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.36 J	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	0.34 J♦	U	0.82 J	U
cyclohexane	260,000	26,000	4.5	7.3	8.5	1.4	2.1	5.5	0.79	6.9 J♦	1.3 J♦	0.72	0.57 J♦	U
ethyl acetate	3,100	310	U	1.9	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	0.66	0.88	1.4	0.75 J	1.1	0.98	1.4	4.1 J♦	2.1	0.4 J	10	U
freon 11 (trichlorofluoromethane)	31,000	3,100	2.5	1.8	1.6	1.6	1.4	1.5	1.2	1.6 ♦	1.5 J	1.2	1.5	U
freon 113 (freon TF)	1,300,000	130,000	6.8	1.0 J	U	1.2 J	0.67 J	0.68 J	0.53 J	0.73 J♦	0.74 J	0.54 J	0.98 J♦	U
freon 12 (dichlorodifluoromethane)	4,400	440	11.0	3.0	2.6	3.1	2.5	2.5 ♦	0.47 J	3.3 ♦	3.0 J	2.6	2.8	U
freon 22	2,200,000	220,000	NA	NA	NA	16	14	68 J	3.3	99 J♦	170	10	4.6	900
heptane	NA	NA	0.67	1.3	U	0.38 J	0.43 J	7.1 J	0.72 J	2.3 ♦	0.69 J♦	U	0.35 J	U
hexane	31,000	3,100	U	U	U	0.53 J	0.43 J	8.5 J	0.68 J	2.3 ♦	0.79 J♦	0.32 J	1.2	U
isopropyl alcohol	NA	NA	U	68	31	41	40	44	30	95	48	16	42	U
m,p-xylene (sum of isomers)	4,400	440	2.1	2.4	3.4	1.9 J	2.4	3.2	4.7	11	5.8	1.1 J	9.6	U
methyl butyl ketone	NA	NA	U	U	U	U	1.0 J	U	1.0 J	0.94 J	U	U	U	U
methyl ethyl ketone	220,000	22,000	1.7	U	3.9	1.2 J	4.3 B	3.6	5.9	9.4	7.0 ♦	U	4 ♦	U
methyl isobutyl ketone	130,000	13,000	U	U	U	0.44 J	1.9 J	0.39 J	0.89 J	1.0 J	1.2 J♦	U	0.99 J♦	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	0.74 J	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	0.33 J	U	U	U
methylene chloride	12,000	1,200	U	0.53	U	0.55 J	0.92 J	0.98 J	0.83 J♦	0.89 J	U	U	0.56 J♦	U
naphthalene	3.6	0.36	U	U	U	U	1.9 J	0.5 J	0.61 J	U	U	0.68 J	0.85 J	5.8 J♦
n-Butane	NA	NA	NA	NA	NA	3.2	3.3	2.7 ♦	1.4	5.8 J♦	1.6 J	2.5	5.2	U
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.65 J	U
o-xylene	4,400	440	1.1	0.93	0.97	0.79 J	0.82 J	1	1.8	4.5 J♦	2.1	0.37 J	3.6	U
styrene	44,000	4,400	0.78	1.0	0.65	0.44 J	1.8	U	0.44 J	4.8	1.6 J	0.67 J	0.91	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.3 J	1.7 J	1.7 J	17	5.0 J♦	U	2.4 J	U
tetrachloroethylene (pce)	470	47	1.4	U	7.4	U	U	U	0.17 J♦	0.52 J♦	U	U	U	U
tetrahydrofuran	NA	NA	1.6	4.3	U	U	1.1 J	3.3 J♦	U	1.4 J	U	U	0.58 J	U
toluene	220,000	22,000	3.2	4.5	6.9	1.4	1.7	3.6 J	4.5	19 J♦	4.8	0.85	4.9	U
trichloroethylene (tce)	30	3	360	3.8	3.7	3.0	1.4	0.33 J	0.20 J♦	0.81 J	1.1 J	0.42 J	0.76 J	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776VMP-3											
Sample ID			**776VMP0301AA**	**776VMP0301AB**	**776VMP0301AC**	**776VMP0301AD**	**776VMP0301AG**	**776VMP0301HA**	**776VMP0301IA**	**776VMP0301JA**	**776VMP0301KA**	**776VMP0301MA**	**776VMP0301NA**	**776VMP0301PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**9-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	18	U	U	U	U	U	U	U	U	U	0.18 J	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	11	2.1	0.50 J	0.61 J	0.52 J	U	0.67 J	U	0.36 J	0.25 J	0.23 J	U
1,2-dichloroethane	4.7	0.47	U	0.62	U	0.27 J	U	0.29 J	U	U	0.27 J	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.7	0.70 J	U	U	U	U	U	U	0.11 J	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	0.79 J	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	U	U	U	5.7	0.65 J	0.21 J	0.16 J	U	U	U
4-ethyltoluene	NA	NA	5.2	0.65 J	U	U	U	U	U	U	0.12 J	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	0.29 J	0.40 J	U	U	U	0.12 J	U	0.22 J	U
acetone	1,400,000	140,000	20	30	58	34	50	37	19	37	26	21	27	18 JD
benzene	16	1.6	2	0.39 J	1.0	0.40 J	0.32 J	0.99	0.37 J	0.81	0.31 J	0.54 J	0.28 J	0.68 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	0.11 J	U	U	U
carbon disulfide	31,000	3,100	0.95	0.95	0.63	6.0	0.44 J	U	0.21 J	U	2.0	U	0.93 J	U
carbon tetrachloride	20	2	0.38	0.83 J	0.70 J	0.51 J	0.60 J	0.53 J	0.41 J	0.49 J	U	0.49 J	0.61 J	U
chlorobenzene	2,200	220	U	U	U	U	0.22 J	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	0.093 J	U	U	U
chloroform	5.3	0.53	16	U	0.74	0.68 J	0.87 J	1.2	0.18 J	0.29 J	0.44 J	U	0.47 JM	U
chloromethane	3,900	390	U	0.97	U	U	1.3	U	1.2	0.73 J	1.3	U	0.67 J	U
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.30 J	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	5.4	3.5	4.8	1.2	2.8	5	0.71	3.4	1.2	0.8	0.81 M	0.91 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.1	0.66	1.2	0.64 J	0.72 J	0.98	0.56 J	0.47 J	0.40 J	0.3 J	0.29 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	4.6	1.7	1.5	1.4	1.4	1.5	1.1	1.3	1.3	1.3	1.4	1.1 J
freon 113 (freon TF)	1,300,000	130,000	1.6	0.93 J	U	0.60 J	0.61 J	0.63 J	0.52 J	0.57 J	0.57 J	0.53 J	0.55 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	21	2.9	2.6	2.9	2.5	2.7	2.3 J	2.9	2.8	2.7	2.6	2.1 J
freon 22	2,200,000	220,000	NA	NA	NA	6.3	15	50 J	9.9	15	50	9.2	6	140
heptane	NA	NA	U	U	U	0.36 J	0.45 J	5.4	0.36 J	0.74 J	0.34 J	U	U	U
hexane	31,000	3,100	U	U	U	0.72	0.91	7.2	0.40 J	0.89	0.24 J	U	0.37 J	U
isopropyl alcohol	NA	NA	U	12	21	28	28	34	24	63	19	20	29	28 J
m,p-xylene (sum of isomers)	4,400	440	3.8	1.7	2.7	1.7 J	1.7 J	2.6	1.6 J	0.65 J	0.99 J	0.72 J	0.71 J	U
methyl butyl ketone	NA	NA	U	U	U	U	0.78 J	U	0.25 J	U	U	0.86 J	U	U
methyl ethyl ketone	220,000	22,000	2.8	2.0	2.2	2.6	7.0 B	4.6	1.5	6.6	4.0	5.9	3.6	1.9 J
methyl isobutyl ketone	130,000	13,000	U	U	U	0.83 J	3.1	U	0.43 J	0.44 J	1.1 J	U	1.1 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	0.95	U	0.50 J	0.99 J	0.79 J	0.43 J	0.66 J	U	U	0.57 J	U
naphthalene	3.6	0.36	U	U	U	0.51 J	1.6 J	U	0.62 J	U	1.2 J	U	0.31 J	U
n-Butane	NA	NA	NA	NA	NA	1.7	16	1.8	1.2 J	3.3	0.69 J	1.6	1.2 J	0.75 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	1.6	0.66	0.71	0.70 J	0.58 J	U	0.62 J	0.16 J	0.34 J	0.35 J	0.26 J	U
styrene	44,000	4,400	0.78	0.69	0.56 J	0.26 J	0.79 J	0.14 J	0.31 J	U	0.43 J	0.31 J	0.35 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.4 J	1 J	0.60 J	9.0 J	U	U	0.69 J	U
tetrachloroethylene (pce)	470	47	0.83 J	U	U	U	U	U	0.19 J	U	U	U	U	U
tetrahydrofuran	NA	NA	11	1.8	U	0.81 J	2.5 J	U	U	U	U	U	U	U
toluene	220,000	22,000	4.4	3.1	2.5	1.2	1.8	3.8	1.7	5.2	0.88	0.82	1	1.6 J
trichloroethylene (tce)	30	3	830	10	7.3	13	12	2.4	U	2.6	3.5	2.1	5.1	2.9 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776-IA											
Sample ID			**776IA1CA**	**776IA1DA**	**776IA1EA**	**776IA1FA**	**776IA1GA**	**776IA1HA**	**776IA1IA**	**776IA1JA**	**776IA1LA**	**776IA1MA**	**776IA1NA**	**776IA1PA**
Sample Type			**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.2	1.7	0.85	U	0.55 J	U	U	U	0.32 J	U	0.29 J	U
1,2-dichloroethane	4.7	0.47	U	0.53 J	U	U	U	U	U	U	0.27 J	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	0.097 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	34
2,2,4-trimethylpentane	NA	NA	U	U	U	0.30 J	U	U	0.20 J	U	U	U	0.26 J	0.22 J
4-ethyltoluene	NA	NA	U	U	U	U	U	U	U	U	0.090 J	U	U	U
4-isopropyltoluene	NA	NA	NA	U	U	U	0.33 J	U	U	U	U	U	0.13 J	2.1
acetone	1,400,000	140,000	54	47	30	18	68	28	22	U	20	22	32	25
benzene	16	1.6	0.49	0.36 J	1.4	0.67 J	0.40 J	1.4	0.29 J	2.4	0.18 J	0.67	0.37 J	0.55 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.41 J	0.82	U	U	0.64 J	U	0.21 J	0.26 J	0.82 J	U	0.69 J	U
carbon tetrachloride	20	2	0.51	0.77 J	U	0.57 J	0.46 J	0.44 J	0.41 J	0.55 J	0.51 J	0.57 J	0.51 J	0.27 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	0.33 J	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	0.55 J	0.32 J	0.25 J	U	U	U	0.29 J	U	0.22 J	U
chloromethane	3,900	390	1.8	1.5	U	1.4 J	1.5	1.8	1.1	5.3	1.3	1.3	1.1	1.6
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	U	U	U	1.2	0.23 J	U	U	U	U	U	0.31 J
ethyl acetate	3,100	310	5.8	3.3	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	0.71	0.93	1.3	0.47 J	1.1	0.29 J	0.37 J	0.50 J	0.45 J	0.25 J	0.37 J	0.25 J
freon 11 (trichlorofluoromethane)	31,000	3,100	1.4	1.7	1.3	1.4 J	1.4	1.4	1.3	1.6	1.5	1.3	1.3	1 J
freon 113 (freon TF)	1,300,000	130,000	U	0.93 J	U	U	0.57 J	0.63 J	0.51 J	0.75 J	U	0.46 J	0.42 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	3.6	3.1	2.2	3.2 J	2.4 J	2.2 J	2.3 J	3.5	3.1	2.8	2.4 J	2 J
freon 22	2,200,000	220,000	NA	NA	NA	15	14	69	2.4	17	30	10	4.4	15
heptane	NA	NA	3.2	1.3	U	0.43 J	1.5	0.14 J	0.19 J	1.8	U	U	U	0.36 J
hexane	31,000	3,100	2.3	U	U	U	2.0	0.54 J	0.25 J	2.8	U	U	0.33 J	0.51 J
isopropyl alcohol	NA	NA	50	50	35	100	57	43	23	1.9 J	15	18	28	61
m,p-xylene (sum of isomers)	4,400	440	1.2 J	2.1	2.9	1.0 J	2.5	0.23 J	1.2 J	1.6 J	1.1 J	0.54 J	0.89 J	0.54 J
methyl butyl ketone	NA	NA	U	U	U	U	1.2 J	U	0.53 J	U	U	U	U	0.36 J
methyl ethyl ketone	220,000	22,000	3.3	4.1	U	0.84 J	6.5 B	2.1	2.6	U	2.0	2.1	3.9	2
methyl isobutyl ketone	130,000	13,000	U	U	U	0.83 J	2.7	1.1 J	1.5 J	U	1.5 J	U	U	0.68 J
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	1.3	U	U	1.7 J	1.2 J	1.8	1.0 J	0.64 J	U	0.95 J	2.1
naphthalene	3.6	0.36	U	U	U	0.71 J	2.2 J	U	U	U	U	U	1.1 J	0.38 J
n-Butane	NA	NA	NA	NA	NA	2.4	8.9	2.2	3.5	8.5	0.77 J	2.5	1.5	1.5
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	0.44 J	0.75	0.88	0.46 J	0.81 J	U	0.66 J	0.47 J	0.36 J	U	0.32 J	0.22 J
styrene	44,000	4,400	1.1	1.0	0.82	0.33 J	1.9	U	0.16 J	U	0.35 J	0.23 J	0.33 J	0.29 J
tert-Butyl alcohol	NA	NA	NA	NA	NA	0.56 J	5.4 J	U	0.69 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	0.38 J	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	U	0.90 J	U	U	U	U	U	U	U
toluene	220,000	22,000	4.4	3.2	3.9	1.3	5.3	4.3	0.97	8.7	1.1	0.8	1.4	1.7
trichloroethylene (tce)	30	3	3.6	1.9	0.98	0.41 J	U	U	U	0.26 J	0.95 J	0.35 J	0.52 J	0.28 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	774/776-OA											
Sample ID			**776OA1DA**	**776OA1EA**	**774776OA1FA**	**774776OA1GA**	**774776OA1HA**	**774776OA1IA**	**774776OA1JA**	**774776OA1KA**	**774776OA1LA**	**774776OA1MA**	**774776OA1NA**	**774776OA1PA**
Sample Type			**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**1-Sep-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	5.5	U	U	U
1,2,4-trimethylbenzene	310	31	U	1.7	0.60 J	U	1.8	U	0.48 J	U	0.11 J	U	0.64 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	0.49 J	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	0.51 J	U	U	U	U	U	0.15 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	0.69 J	U
2,2,4-trimethylpentane	NA	NA	U	U	U	U	0.94 J	U	0.80 J	4.2	U	U	U	U
4-ethyltoluene	NA	NA	U	U	U	U	0.53 J	U	U	U	U	U	0.17 J	U
4-isopropyltoluene	NA	NA	U	U	U	U	0.8 J	U	U	U	U	U	U	U
acetone	1,400,000	140,000	18	53	6.8	1.9 J	97	15	13	7.0 J	9.1 J	U	13	U
benzene	16	1.6	U	0.39 J	U	0.63	0.92 J	0.61 J	0.47 J	0.91	0.16 J	0.63	0.33 JM	0.43 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.6	0.35 J	U	U	2.3 J	U	2	U	0.50 J	U	U	U
carbon tetrachloride	20	2	0.51	0.90 J	U	0.51 J	0.5 J	0.47 J	0.42 J	0.55 J	0.48 J	0.45 J	0.43 J	0.46 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	3,900	390	U	1.1	0.76	1.2	1.4 J	1.5	1.1	1.6	1.0	1.1	1.7	1.2
cis-1,2-dichloroethene	NA	NA	U	0.48 J	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	U	U	U	5.1	U	1.1	U	U	U	U	U
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	U	U	1.1	U	2.1	U	0.37 J	0.24 J	U	U	0.21 J	0.15 J
freon 11 (trichlorofluoromethane)	31,000	3,100	1.3	1.7	1.3	1.4	1.4 J	1.4	1.1	1.5	1.3	1.4	1.3	1.7
freon 113 (freon TF)	1,300,000	130,000	U	0.86 J	U	0.56 J	0.61 J	0.64 J	0.57 J	0.68 J	U	0.53 J	0.43 J	1.2 J
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.9	2.5	2.8	3.4 J	2.7	2.2 J	3.2	2.8	2.7	2.3 J	2.2 J
freon 22	2,200,000	220,000	NA	NA	NA	U	2.1 J	1.1 J	1.2 J	1.2 J	0.94 J	0.86 J	0.96 J	0.95 J
heptane	NA	NA	1.2	U	U	U	3.6	U	0.37 J	1.2	U	U	U	U
hexane	31,000	3,100	0.9	U	U	0.42 J	8.2	0.48 J	0.73	0.96	U	U	U	U
isopropyl alcohol	NA	NA	U	U	1.2	U	14 J	U	5.6 J	U	0.98 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	U	1.1 J	2.7	0.33 J	6.2	U	0.98 J	0.68 J	0.20 J	U	0.72 J	0.49 J
methyl butyl ketone	NA	NA	U	U	U	U	0.56 J	1.5	0.33 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	8.7 J	U	0.42 J	6.7 B	U	15	1.2 J	2.2	U	2	U
methyl isobutyl ketone	130,000	13,000	U	U	U	U	U	U	0.25 J	U	0.11 J	U	0.95 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	0.92	0.56	0.50 J	2.0 J	0.98 J	1.3 J	0.92 J	U	0.82 J	0.75 J	1.2 J
naphthalene	3.6	0.36	U	U	U	U	3.1 J	U	U	U	U	U	0.37 J	U
n-Butane	NA	NA	NA	NA	NA	1.8	24	1.4	1.3	4.7	U	1.4	0.88 J	1.6
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.14 J	U
o-xylene	4,400	440	U	0.44 J	0.97	0.12 J	2.2	U	0.43 J	0.21 J	U	U	0.28 J	U
styrene	44,000	4,400	U	U	U	U	1.2 J	U	0.25 J	U	U	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.2 J	U	0.73 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	U	0.91 J	U	U	U	U	U
tetrahydrofuran	NA	NA	U	1.3	U	U	8.2 J	U	U	U	U	U	U	U
toluene	220,000	22,000	1	5.8	3.5	0.73 J	20	0.39 J	5.6	1.9	0.37 J	0.49 J	0.73 J	1
trichloroethylene (tce)	30	3	0.98	2.6	0.60 J	U	U	U	U	1.2	0.53 J	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
▭ Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-3
Buildings 774/776
SSVM System Performance Monitoring Influent Air Results

Sample Location	774776- Influent													
Sample ID	**774776CA01AA**	**774776CA01AB**	**774776CA01AC**	**774776CA01AD**	**774776CA01AE**	**774776CA01AF**	**774776CA01AG**	**774776CA01AH**	**774776CA01IA**	**774776CA01JA**	**774776CA01KA**	**774776CA01LA**	**774776CA01MA**	**774776CA01NA**
Sample Type	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**
Sample Date	**6-Jun-2011**	**23-Aug-2011**	**14-Oct-2011**	**14-Oct-2011**	**25-Oct-2011**	**24-Jan-2012**	**3-Aug-2012**	**15-Feb-2013**	**7-Aug-2013**	**28-Jan-2014**	**16-Jul-2014**	**20-Jan-2015**	**28-Aug-2015**	**1-Feb-2016**
Sample Depth (ft bgs / ags)	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Sample Collection Duration (hr)	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**
Volatiles (TO-15) in µg/m^3														
1,1,1-trichloroethane	6.6	4.0	6.9	6.1	6.5	5.0 J	2.9	0.91 J	1.8	U	U	1.8	1.6 M	U
1,2,4-trimethylbenzene	9.5	3.1	U	U	1.7	U	0.69 J	U	0.56 J	U	U	U	1.4	U
1,3,5-trimethylbenzene	4.7	2.2	U	U	0.55 J	U	U	U	U	U	U	U	0.42 J	U
1,3-dichlorobenzene	U	U	U	U	U	U	0.81 J	U	U	U	U	U	U	U
2,2,4-trimethylpentane	U	U	U	U	U	U	U	U	0.23 J	U	U	U	1.1	U
4-ethyltoluene	6.9	1.0	U	U	U	U	U	U	U	U	U	U	0.55 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.34 J	U	0.35 J	U	U	U	0.49 J	U
acetone	50	30	300	440	27	16 J	23 B	28	35	19 J	63	7.6 J	36	10 J
benzene	0.45 J	4.1	0.42 J	0.7	0.97	1.8 J	0.30 J	0.25 J	0.33 J	3.9	0.65 J	0.53 J	0.37 J	0.84 J
carbon disulfide	0.73	U	U	U	U	U	0.46 J	0.21 J	U	U	U	0.44 J	1.5 J	U
carbon tetrachloride	U	U	U	U	0.96	U	0.54 J	1.8	0.51 J	U	1.5 J	U	1.5	U
chloroform	15	4.3	3.6	5.0	4.6	3.6 J	4.9	2.2	5.7	0.93 J	4.4 J	1.8	2.4	U
chloromethane	U	U	U	U	U	U	0.71 J	1.5	0.61 J	2.0 J	1.7 J	0.96 J	0.58 J	1 J
cis-1,2-dichloroethene	1.80	U	U	U	U	U	U	U	U	U	U	U	U	U
cumene	NA	NA	NA	NA	NA	U	U	U	U	U	0.98 J	0.26 J	0.14 J	U
cyclohexane	U	U	U	U	U	U	0.36 J	0.38 J	0.14 J	U	U	U	0.14 J	U
ethylbenzene	0.62 J	0.93	U	U	0.79	U	0.38 J	U	0.47 J	U	0.32 J	U	1.2	U
freon 11 (trichlorofluoromethane)	50	130	83	59	49	40	61	29	35	14	24	28	42	20
freon 113 (freon TF)	U	1.9	1.1 J	1.0 J	U	U	0.82 J	0.5 J	0.65 J	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	3.7	16	6.1	6.1	6.4	11 J	7.1	4.7	6.5	4.4 J	6.9 J	4.5	6.8	3.4 J
freon 22	NA	NA	NA	NA	NA	320	94	33	45	42	510	U	3.3	280
heptane	0.83	12	U	U	0.87	1.9 J	0.37 J	U	0.30 J	2.5 J	U	U	U	U
hexane	U	U	U	U	U	U	0.66 J	0.27 J	0.27 J	U	U	0.17 J	0.3 J	U
isopropyl alcohol	U	U	U	U	U	U	7.9 J	2.1 J	13	U	10 J	2.4 J	11 J	U
m,p-xylene (sum of isomers)	1.3 J	3.3	U	U	2.4	U	0.99 J	U	1.4 J	U	0.50 J	0.13 J	4	2.6 J
methyl ethyl ketone	14	4.4	300	400	15	4.8 J	2.5 B	0.45 J	5	U	4.7 J	U	4	U
methyl isobutyl ketone	U	U	U	U	U	U	0.28 J	U	0.46 J	U	U	U	U	U
methylene chloride	2.2	U	U	U	U	U	0.64 J	1 J	0.41 J	3.8 J	U	0.5 J	U	U
naphthalene	U	U	U	U	U	U	1.9 J	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	NA	2.9 J	1.7	3.4	1.1 J	7.3	U	1.7	1.7	1.7 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.3 J	U
o-xylene	0.84	1.8	U	U	1.0	U	0.42 J	U	0.53 J	U	U	U	1.4	U
styrene	U	U	U	U	U	U	0.15 J	U	0.14 J	U	U	U	0.15 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	U	1.9 J	U	U	U	0.65 JM	U
tetrachloroethylene (pce)	3.4	2.4	2.3	12	3.5	U	1.5	U	1.1 J	U	1.6 J	0.84 J	0.69 J	U
tetrahydrofuran	120	6.0	600	770	5.2	U	1.4 J	1.8 J	0.24 U	U	U	U	0.91 J	U
toluene	1.8	2.2	0.96	1.4	2.2	0.83 J	1.2	0.17 J	1.1	0.67 J	0.72 J	0.22 J	1.1	2.3 J
trichloroethylene (tce)	510	240	670	1,200	650	300	190	20	120	32	97	100	82	60
vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m^3: microgram per cubic meter.
B - Analytes detected in the trip blank.

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785VMP-2												
Sample ID			**785VMP0202AD**	**785VMP0202AE**	**785VMP0202AF**	**785VMP0202AG**	**785VMP0202AH**	**785VMP0202IA**	**785VMP0202JA**	**785VMP0202KA**	**785VMP0202LA**	**785VMP0202MA**	**785VMP0202NA**	**785VMP0202PA**	**785VMP0202QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Mar-2011**	**24-Aug-2011**	**24-Oct-2011**	**31-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**29-Jan-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in µg/m³															
1,1,1-trichloroethane	220,000	22,000	U	U	U	0.57 J	U	U	U	0.43 J	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.5	1.4	U	U	3.7	1.6	U	U	U	1.4 J	0.72 J	3.9	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	1.0	0.46 J	U	U	U	0.38 J	U	1.1	U
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	3.0	37	U	U	U	3.1	U	2.2	U
1,4-dichlorobenzene	23,360	2,336	U	1.5	U	U	U	U	U	U	U		U	0.21 J	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	0.36 J	U	6.6 J♦	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	1.2	U	1.5	5.8	0.17 J	U	U	U	U	U	0.2 J
4-ethyltoluene	NA	NA	0.65 J	U	U	U	1.2	0.65 J	U	U	U	0.30 J	U	0.98	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.33 J	U	U	U	U	U	U	0.45 J	U
acetone	1,400,000	140,000	10	17	3.2	0.76 J	12 JB	4.5 J	15	8.7 J	3.2 J	28	7.7 J	14	8.6 J♦
benzene	16	1.6	2.9	0.65	2.2	U	U	U	0.64	0.16 J	0.72	0.68 J	0.37 J	0.25 J	0.5 J
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.82	0.63	U	U	0.86 J	U	0.70 J	0.41 J	0.43 J	4.7	0.65 J	4.8	0.6 J
carbon tetrachloride	20	2	U	U	0.70 J	0.49 J	0.46 J	0.44 J	0.46 J	U	0.33 J	0.86 J	0.42 J	0.57 J	0.4 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	1.5	U	U	U	U	U	0.16 J	0.55 J	0.24 J	26 J	U	0.28 J	U
chloromethane	3,900	390	1.4	1.1	U	3.5	37	0.21 J	8.8	3.7	5.1	12 J	2.2	4.2	0.6 J♦
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.5 J	0.24 J	2.0	U	0.16 J	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	0.19 J	U	0.61 J	U
cyclohexane	260,000	26,000	1.3	0.94	1.9	U	U	6.8	U	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	49	4.9	1.5	U	0.75	U	1.2	1.8	0.49 J	0.14 J	0.27 J	0.76 J	0.42 J	5.8	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1	1.8	1.5	1.4	1.3	1.3	1.2	1.1	1.1 J	2.7	1.2	1.4	1.1
freon 113 (freon TF)	1,300,000	130,000	U	0.78 J	U	0.58 J	0.59 J	0.61 J	0.59 J	0.79 J	0.88 J	2.6 J	0.42 J	0.68 J	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	3.1	2.6	2.9	2.4 J	2.3 J	2.5	2.3 J	3.1	4.6 J	2.4 J	2.7	1.8 J
freon 22	2,200,000	220,000	NA	NA	NA	U	U	0.81 J	0.90 J	0.83 J	U	2.0 J	0.75 J	0.95 J	0.8 J
heptane	NA	NA	2.1	U	1.8	U	3.8	3.4	0.22 J	U	U	U	U	U	0.3 J♦
hexane	31,000	3,100	6.9	U	6.1	U	1.3	9.8	0.18 J	0.2 J	U	7.5	0.74	0.23 J	0.3 J
isopropyl alcohol	NA	NA	U	U	U	U	13	470	2.4 J	U	U	29	U	4.2 J	U
m,p-xylene (sum of isomers)	4,400	440	4.7	0.93 J	2.3	0.21 J	4.5	6.8	0.93 J	0.35 J	0.63 J	1.6 J	1.1 J	6.5	0.4 J
methyl butyl ketone	NA	NA	U	U	U	U	0.47 J	U	1.0 J	0.25 J	U	1.2 J♦	U	0.77 J	0.4 J♦
methyl ethyl ketone	220,000	22,000	3	4.1	U	U	3.3 B	6.3	7.1	U	U	10	2.2	3.6	2.1 ♦
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.0 J	U	1.2 J	1.5	U	1.2 J	U	0.96 J	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	0.38 J	U	U	U
methylene chloride	12,000	1,200	1.4	U	U	U	2.4	U	0.40 J	0.41 J	U	0.45 J♦	U	U	0.7 J♦
naphthalene	3.6	0.36	U	U	U	U	2.2 J	U	U	U	U	U	U	0.54 J	U
n-Butane	NA	NA	NA	NA	NA	0.64 J	6.3	0.52 J	1.3	1 J	1.6	2.9	U	1 J	0.7 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	0.68 J	U	U	U	U	U	U	0.78 J	U
o-xylene	4,400	440	1.3	U	0.71	U	1.6	2.4	0.27 J	0.14 J	0.23 J	0.68 J	0.53 J	2.9	0.2 J♦
styrene	44,000	4,400	U	U	U	U	0.46 J	0.37 J	U	U	U	0.29 J	U	0.52 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.8 J	U	2.7 J	1.6 J	U	8.9 J	U	3.3 J	U
tetrachloroethylene (pce)	470	47	U	U	U	U	0.73 J	0.58 J	0.51 J	U	U	U	U	U	U
tetrahydrofuran	NA	NA	8.2	11	U	4.6 J	87	U	68	46	13 J	95 J	8.2 J	21	U
toluene	220,000	22,000	15	3.3	6.2	0.36 JB	3.8	7.5	2.3	0.47 J	1.1	1.9	1.3 J	2.1	0.6 J
trichloroethylene (tce)	30	3	U	19	8.9	1.0 J	9.1	0.68 J	7.2	37	6.1	400	0.6 J	15	1.1
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concentration_table/Generic_Tables/index.htm)

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785VMP-4													
Sample ID			**785VMP0401AA**	**785VMP0401AB**	**785VMP0401AC**	**785VMP0401AD**	**785VMP0401AG**	**785VMP0401HA**	**785VMP0401IA**	**785VMP0401JA**	**785VMP0401KA**	**785VMP0401LA**	**785VMP0401NA**	**785VMP0401PA**	**785VMP0401QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Mar-2011**	**24-Aug-2011**	**24-Oct-2011**	**31-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**28-Feb-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in µg/m³															
1,1,1-trichloroethane	220,000	22,000	1.7	0.72 J	U	U	0.40 J	U	0.28 J	0.93 J	0.56 J	U	U	U	U
1,2,4-trimethylbenzene	310	31	0.95	6.7	1.8	0.45 J	15	1.4	1.4	1.1 J	0.20 J	U	0.51 J	11 D	29
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	2.1	0.50 J	U	3.9	0.49 J	0.39 J	U	0.072 J	U	U	3.1 JD	9
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	30	1.8	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	2.7 J
2,2,4-trimethylpentane	NA	NA	U	1.5	3.9	0.58 J	U	5.5	0.71 J	U	U	U	U	U	0.5 J
4-ethyltoluene	NA	NA	U	2.7	0.85	U	3.6	0.49 J	0.31 J	U	U	U	U	4.2 JD	12
4-isopropyltoluene	NA	NA	NA	NA	NA	U	1.6	U	U	1.1 J	U	U	U	U	0.23 J
acetone	1,400,000	140,000	15	16	U	4.9 J	44	8.1 J	73	120	7.2 J	7900	22	120 D	51
benzene	16	1.6	4.9	4.2	8.4	0.64	0.57 J	0.61 J	0.58 J	0.89 J	0.58 J	U	0.63 J	0.75 JDM	2.8
bromodichloromethane	3.3	0.33	2.6	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	4.8	13	9.2	1.1 J	12	0.48 J	2.7	8.3	2.0	U	1.6	21 D	2.6
carbon tetrachloride	20	2	U	U	U	0.51 J	0.47 J	0.43 J	0.39 J	U	U	U	0.46 J	0.53 JD	0.38 J
chlorobenzene	2,200	220	U	0.66 J	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	91	0.79	U	U	0.47 J	U	0.33 J	0.74 J	2.5	U	U	1.7 JDM	U
chloromethane	3,900	390	U	U	U	U	0.30 J	0.15 J	0.29 J	0.43 J	U	U	U	U	0.42 J
cis-1,2-dichloroethene	NA	NA	2.3	U	U	U	U	U	U	0.75 J	U	U	U	5.1 D	1.8
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	1.5 J	U	U	U	0.57 JD	2.1
cyclohexane	260,000	26,000	6.2	9.4	8.0	0.34 JB	2.1	6.8	1.5	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	0.34 JB	2.1	6.8	1.5	U	U	U	U	U	U
ethylbenzene	49	4.9	1.1	6.1	4.9	0.58 J	3.9	3.1	1.9	1.8	0.39 J	U	0.41 J	4.5	12
freon 11 (trichlorofluoromethane)	31,000	3,100	0.86	1.7	1.3	1.4	1.4	1.3	1.1	1.3 J	0.83 J	U	1.1	1.5 J	1 J
freon 113 (freon TF)	1,300,000	130,000	1.1 J	0.86 J	U	0.58 J	0.69 J	0.64 J	0.60 J	0.91 J	0.97 J	U	0.55 J	U	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.9	2.8	2.5	2.9	2.6	2.6	2.3 J	U	2.5	U	2.4 J	3.1 J	1.7 J
freon 22	2,200,000	220,000	NA	NA	NA	U	U	0.77 J	0.88 J	U	0.75 J	U	0.82 J	U	0.74 J
heptane	NA	NA	3.6	5.3	8.2	0.45 JB	1.1	3.6	0.69 J	U	U	U	U	U	2.5
hexane	31,000	3,100	8.2	7.9	13	0.91 B	1.4	9.3	0.57 J	6	0.69	U	1	U	1.2
isopropyl alcohol	NA	NA	U	U	0.62	2.3 J	15	190	5.5 J	10 J	1.3 J	U	U	U	U
m,p-xylene (sum of isomers)	4,400	440	2.7	14	14	1.1 J	3.4	8.7	2.8	1.9 J	0.73 J	U	1.2 J	16	38
methyl butyl ketone	NA	NA	U	U	U	U	0.94 J	U	0.61 J	1.2 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	2.3	2.7	U	0.82 J	10 B	4.4	14	19	U	2300	7.6	55	14
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.3 J	U	1.7 J	U	2.9	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	0.95	U	U	0.43 J	0.82 J	0.52 J	0.95 J	1.7 J	U	U	0.76 J	U	0.68 J
naphthalene	3.6	0.36	U	U	U	U	0.68 J	U	0.72 J	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	NA	4.6	3.8	0.44 J	0.91 J	1.6 J	U	U	1.2	U	0.41 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	1.5	U	0.31 J	U	U	U	U	2.6 J	7.9
o-xylene	4,400	440	0.84	5.1	2.8	0.46 J	1.7	3.4	1.1	0.8 J	0.41 J	U	0.48 J	5.3	17
styrene	44,000	4,400	U	U	U	U	0.30 J	0.35 J	0.34 J	0.33 J	U	U	U	1.4 J	5.5
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.8 J	U	1.2 J	2.2 J	U	U	U	U	3.4 J
tetrachloroethylene (pce)	470	47	U	U	1.0	U	1.2 J	0.62 J	0.34 J	0.4 J	U	U	U	U	0.24 J
tetrahydrofuran	NA	NA	U	U	U	U	3.4 J	U	U	0.95 J	U	20,000	19	360	52
toluene	220,000	22,000	26	23	42	2.2 B	5.9	8.1	3.3	4.2	1.2	U	1.9	6.7	15
trichloroethylene (tce)	30	3	720	88	33	3.5	39	3	17	54	27	170 J	1.2	33	6
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785VMP-5											
Sample ID			785VMP0501AA	785VMP0501AB	785VMP0501AC	785VMP0501AD	785VMP0501FA	785VMP0501GA	785VMP0501HA	785VMP0501IA	785VMP0501JA	785VMP0501NA	785VMP0501PA	785VMP0501PA
Sample Type			sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab
Sample Date			25-Aug-2011	24-Oct-2011	31-Jan-2012	8-Aug-2012	6-Mar-2013	9-Aug-2013	3-Oct-2013	29-Jan-2014	18-Jul-2014	26-Jan-2015	1-Sep-2015	2-Feb-2016
Sample Depth (ft bgs / ags)			1	1	1	1	1	1	1	1	1	1	1	1
Sample Collection Duration (hr)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volatiles (TO-15) in µg/m³														
1,1,1-trichloroethane	220,000	22,000	4.8	1.8	0.53 J	0.74 J	U	0.54 J	1.4	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	2.2	1.4	U	0.69 J	0.71 J	U	U	0.55 J	U	1.1 J	9.3 D	0.35 JD
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	0.28 J	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	0.85	U	U	U	0.31 J	U	U	U	U	U	2.4 JD	U
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	17	U	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	0.48 J	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	1.4	1.3	0.92	6.5	0.96	U	U	U	U	U	U
4-ethyltoluene	NA	NA	0.50 J	U	U	U	0.34 J	U	U	U	U	U	2.6 JD	U
4-isopropyltoluene	NA	NA	NA	NA	U	0.64 J	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	21	4.3	2.3 J	20 B	6.8 J	8.2 J	2.8 J	10 J	2600	54	77 D	23 D
benzene	16	1.6	0.39 J	2.6	0.64	0.50 J	0.69	0.38 J	0.27 J	0.62	U	3.3	8.6 D	3.5 D
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.38 J	U	U	2.7	U	U	U	U	U	U	6.8 JD	11 D
carbon tetrachloride	20	2	U	U	0.48 J	0.45 J	0.48 J	0.31 J	0.38 J	0.39 J	U	U	0.92 JD	0.42 JDM
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	2.8	0.74	U	U	U	0.19 J	0.21 J	U	46 J	U	U	U
chloromethane	3,900	390	U	U	U	0.97 J	0.85 J	0.48 J	0.42 J	1.4	U	U	U	0.36 JD
cis-1,2-dichloroethene	NA	NA	2.1	U	U	U	U	0.41 J	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	0.41 J	U	U	U	U	U	U	U	1.2 JD	U
cyclohexane	260,000	26,000	U	2.9	1.1 B	U	U	U	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	49	4.9	2.3	1.6	1.8	3.8	2.1	U	0.7 J	0.55 J	U	2.2 J	6.7	0.57 J
freon 11 (trichlorofluoromethane)	31,000	3,100	2.2	2.3	1.4	1.5	1.4	1.5	1.4	1.4	U	U	1.5 J	1 J
freon 113 (freon TF)	1,300,000	130,000	0.86 J	U	U	0.58 J	0.62 J	0.50 J	0.58 J	0.60 J	U	U	U	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.9	2.5	2.8	2.4 J	2.6	2.2 J	2.4 J	3.2	U	2.2 J	2.9 J	1.9 J
freon 22	2,200,000	220,000	NA	NA	U	U	0.95 J	0.90 J	U	1.2 J	U	U	U	0.73 J
heptane	NA	NA	U	1.9	0.70 JB	1.4	3.4	0.92	U	0.56 J	U	U	U	U
hexane	31,000	3,100	U	U	3.5 B	1.3	9.9	1.4	0.18 J	0.83	U	U	U	U
isopropyl alcohol	NA	NA	8.2	U	U	2.1 J	290	15	U	22	U	8.1 J	U	U
m,p-xylene (sum of isomers)	4,400	440	8.2	5.8	3.6	14	7.5	U	2 J	1.5 J	U	6 J	21	1.3 J
methyl butyl ketone	NA	NA	U	U	U	0.86 J	U	U	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	2	U	0.37 J	4.3 B	3.9	0.49 J	U	1.5	1200	13	U	4.9
methyl isobutyl ketone	130,000	13,000	U	U	U	0.49 J	U	U	0.48 J	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	3.7	U	U	0.59 J	0.6 J	0.43 J	1.7 J	0.72 J	U	U	U	U
naphthalene	3.6	0.36	U	U	U	0.46 J	U	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	4.8	4.4	1.5	0.57 J	0.64 J	3.0	U	U	U	U
n-Propylbenzene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	1.5 J	U
o-xylene	4,400	440	3	1.5	1.7	4.7	2.4	U	0.63 J	0.58 J	U	2.1 J	8.1	0.46 J
styrene	44,000	4,400	U	U	U	0.64 J	U	U	U	0.58 J	U	3.9	22	1.1 J
tert-Butyl alcohol	NA	NA	NA	NA	U	0.96 J	U	0.55 J	U	2.5 J	U	U	U	U
tetrachloroethylene (pce)	470	47	2.2	U	U	U	U	U	0.3 J	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	0.21 J	0.41 J	U	U	U	U	6900	230	540	67
toluene	220,000	22,000	2.1	7.4	1.6 B	3.7	4.9	1.2	0.69 J	3.2	U	U	2.6 J	0.77 J
trichloroethylene (tce)	30	3	610	140	18	20	1.1	7	73	1.2	510	41	150	7.3
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785-1A											
Sample ID			**785IA05**	**785IA06**	**785IA07**	**785IA08**	**785IA09**	**785IA10**	**785IA11**	**785IA12**	**785IA13**	**785IA14**	**785IA15**	**785IA1QA**
Sample Type			**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**
Sample Date			**24-Aug-2011**	**24-Oct-2011**	**27-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**28-Jan-2014**	**17-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**1-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**8**
Volatiles (TO-15) in µg/m³														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.7	1.4	U	0.37 J	U	0.49 J	U	U	0.42 J	0.21 J	2.4	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	0.15 J	U	0.54 J	U
1,3-butadiene	4.1	0.41	U	U	U	U	0.32 J	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	0.11 J		U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	11 J	U	U	U
2,2,4-trimethylpentane	NA	NA	U	0.52 J	0.29 J	U	U	U	U	U	U	U	0.24 J	0.25 J
4-ethyltoluene	NA	NA	U	U	U	U	U	U	U	U	0.12 J	U	0.61 J	U
4-isopropyltoluene	NA	NA	NA	NA	U	U	U	U	U	U	0.56 J	U	U	U
acetone	1,400,000	140,000	35	11	2.6 J	16 B	9.3 J	9.7 J	6.6 J	U	19	U	9.3 J	4.3 J
benzene	16	1.6	U	1.3	0.58 J	0.36 J	U	U	0.31 J	0.48 J	0.30 J	0.64	0.37 JM	0.48 J
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	U	U	U	U	U	U	U	0.76 J	6.8	U	0.92 J	0.29 J
carbon tetrachloride	20	2	U	U	0.53 J	0.44 J	U	0.48 J	0.43 J	0.49 J	0.51 J	0.47 J	0.45 J	0.37 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U		U	U	0.3 J	U	U	U	U	U
chloroform	5.3	0.53	U	4.7	U	U	U	U	0.39 J	U	U	U	U	U
chloromethane	3,900	390	U	U	1.2	1.1	1.2	1	1.9	1.6	1.5	1.1	0.97 J	1
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	0.84	U	U	U
cumene	18,000	1,800	NA	NA	U	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	U	0.34 JB	U	U	U	U	U	U	U	0.41 JM	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	49	4.9	U	0.75	0.13 J	0.22 J	U	0.19 J	0.13 J	U	0.69 J	0.21 J	0.52 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	1.3	1.4	1.3	1.4	1.3	1.2	1.4	1.5	1.2	1.2	0.99 J
freon 113 (freon TF)	1,300,000	130,000	U	U	0.54 J	0.58 J	0.65 J	0.59 J	0.56 J	0.63 J	0.69 J	0.45 J	0.47 J	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	5.7	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	2.3	2.8	2.3 J	2.6	2.3 J	2..5	3.0	2.6	2.6	3.4	1.7 J
freon 22	2,200,000	220,000	NA	NA	U	U	1 J	1.0 J	U	1.1 J	1.1 J	0.84 J	1.4 J	0.74 J
heptane	NA	NA	U	0.71	0.37 JB	0.70 J	U	U	U	U	U	U	0.43 JM	0.24 JM
hexane	31,000	3,100	U	2.3	2.0 B	0.75	U	U	0.28 J	U	0.29 J	2.2	0.99	0.47 J
isopropyl alcohol	NA	NA	24	U	U	0.84 J	U	U	U	U	2.1 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	1.0 J	2.4	0.29 J	0.65 J	U	0.66 J	0.33 J	U	2.1 J	0.53 J	2.2	U
methyl butyl ketone	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	3.2	U	0.30 J	2.3 B	1.1 J	1.7	1.1 J	1.0 J	3.9	U	1.2 J	0.95 J
methyl isobutyl ketone	130,000	13,000	U	U	U	0.38 J	U	0.37 J	U	U	0.37 J	U	2.3	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	0.85	U	U	0.51 J	U	U	0.63 J	0.69 J	U	0.88 J	1.4 J	0.73 J
naphthalene	3.6	0.36	U	U	U	U	U	U	U	U	U	U	0.22 J	U
n-Butane	NA	NA	NA	NA	2.0	2.5	1.3	0.70 J	1.1 J	1.4	U	5.9	7.4	1.1 J
n-Propylbenzene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	0.37 J	U
o-xylene	4,400	440	U	0.75	0.11 J	0.22 J	U	0.25 JM	0.14 J	U	0.40 J	0.2 J	1.2	U
styrene	44,000	4,400	U	U	U	U	U	U	U	U	U	U	0.069 J	U
tert-Butyl alcohol	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	21	U	U	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
toluene	220,000	22,000	4.2	4.0	1.4 B	1.3	U	0.84	0.75	0.33 J	1.3	0.97	0.89	3
trichloroethylene (tce)	30	3	1.1	U	U	U	U	U	U	U	0.88 J	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785/786-OA											
Sample ID			**785OA01**	**785786OA02**	**785786OA03**	**785786OA04**	**785786OA05**	**785786OA06**	**785786OA07**	**785786OA08**	**785786OA09**	**785786OA10**	**785786OA11**	**785786OA1QA**
Sample Type			**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**
Sample Date			**24-Aug-2011**	**24-Oct-2011**	**27-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**28-Jan-2014**	**17-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**1-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**8**
Volatiles (TO-15) in µg/m³														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.3	2.6	U	0.73 J	U	U	U	U	0.073 J	U	0.091 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	2.6	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	U		U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	0.76	0.34 J	0.56 J	U	0.23 J	U	U	U	U	U	U
4-ethyltoluene	NA	NA	U	0.65 J	U	U	U	U	U	U	U	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	39	12	19	150	4 J	22	8.5 J	3.3 J	6.2 J	U	12 J	4 J
benzene	16	1.6	0.39 J	1.8	0.56 J	0.80 J	0.78	0.32 J	U	0.53 J	0.14 J	0.5 J	0.3 J	0.37 JM
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	U	U	U	0.78 J	U	0.57 J	U	U	0.59 J	U	0.8 J	2.8
carbon tetrachloride	20	2	U	U	0.52 J	U	0.54 J	0.47 J	0.4 J	0.56 J	0.30 J	0.5 J	0.45 J	0.41 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	3,900	390	U	U	1.2	1.2 J	1.4	1.0 J	1.1 J	1.7	1.2	1.3	0.93 J	1.1
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	U	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	0.77	U	U	U	U	U	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	2.8	U	U
ethylbenzene	49	4.9	U	1.3	U	1.4 J	U	0.13 J	U	U	U	U	0.099 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	1.4	1.4	1.4 J	1.4	1.2	1.2	1.5	1.2	1.3	1.2	1.1 J
freon 113 (freon TF)	1,300,000	130,000	U	U	0.59 J	0.70 J	U	0.55 J	0.54 J	0.70 J	0.54 J	0.49 J	0.49 J	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.9	2.2	2.8	3.2 J	2.7	2.1 J	2.3 J	3.3	2.5	U	2.3 J	1.6 J
freon 22	2,200,000	220,000	NA	NA	U	U	0.92 J	0.99 J	U	1.3 J	0.84 J	0.93 J	0.96 J	0.72 J
heptane	NA	NA	U	1.2	0.55 JB	2.7	U	0.14 J	0.89 J	U	U	U	U	0.23 J
hexane	31,000	3,100	U	3.8	2.2 B	4.4	U	0.25 J	0.19 J	0.22 J	U	U	U	0.2 J
isopropyl alcohol	NA	NA	15	2.2	1.3 J	11 J	U	1.6 J	U	U	1.1 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	0.75 J	4.3	0.30 J	3.8 J	U	0.37 J	U	U	0.14 J	U	0.33 J	U
methyl butyl ketone	NA	NA	U	U	U	1.1 J	U	0.37 J	2.2	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	3.4	U	0.92 J	8.6 B	U	3.3	U	U	1.3 J	U	1.7	0.69 J
methyl isobutyl ketone	130,000	13,000	U	U	U	U	U	0.17 J	0.28 J	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	1.1	1.3	0.53 J	2.4 J	U	6.5	0.58 J	1.0 J	0.68 J	U	1.4 J	0.65 J
naphthalene	3.6	0.36	U	U	U	1.1 J	U	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	1.9	30	1.4	0.54 J	0.95 J	1.5	U	1.3	0.75 J	0.94 J
n-Propylbenzene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	U	1.3	U	1.3 J	U	0.12 J	U	U	U	U	0.16 JM	U
styrene	44,000	4,400	U	U	U	0.74 J	U	U	U	U	U	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	U	1.8 J	U	0.93 J	U	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	1.7 J	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	5.9 J	U	U	U	U	U	U	U	U
toluene	220,000	22,000	2.3	7.2	0.57 JB	17	0.55 J	0.74	0.57 J	0.34 J	0.58 J	0.28 J	0.62 J	1.5
trichloroethylene (tce)	30	3	0.82	0.82	U	U	U	U	U	U	U	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	786VMP-1												
Sample ID			786VMP0102AA	786VMP0102AB	786VMP0102AC	786VMP0102AD	786VMP0102AG	786VMP0102HA	786VMP0102IA	786VMP0102JA	786VMP0102KA	786VMP0102LA	786VMP0102NA	786VMP0102PA	786VMP0102QA
Sample Type			sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab
Sample Date			18-Jan-2011	24-Aug-2011	24-Oct-2011	27-Jan-2012	8-Aug-2012	6-Mar-2013	9-Aug-2013	3-Oct-2013	26-Feb-2014	18-Jul-2014	26-Jan-2015	1-Sep-2015	2-Feb-2016
Sample Depth (ft bgs / ags)			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Sample Collection Duration (hr)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volatiles (TO-15) in $\mu g/m^3$															
1,1,1-trichloroethane	220,000	22,000	12	U	U	U	U	U	U	0.53 J	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	0.59 J	U	U	0.65 J
1,2,4-trimethylbenzene	310	31	7.5	6.9	1.2	U	0.38 J	1.0	1.7	1.3	0.31 J	4.2	0.48 J	1.7	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	5.2	1.9	U	U	U	0.33 J	0.46 J	0.38 J	U	1.3 J	U	0.5 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	17 J	2.3	U	1.8 J	16	U	1.8	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	0.16 J	U
2-chlorotoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	0.30 J	U	U	U
2,2,4-trimethylpentane	NA	NA	19	0.95	3.8	1.9	U	7 J	1.3	U	U	1.2 J	U	U	U
4-ethyltoluene	NA	NA	3.2	2.7	0.65 J	U	U	0.29 J	0.54 J	0.23 J	U	1.4 J	U	0.59 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	0.27 J	U
acetone	1,400,000	140,000	31	20	U	3.3 J	7.8 JB	12 J	7.8 J	9.2 J	U	26	3.7 J	15	3.6 J
benzene	16	1.6	19	3.1	9.1	U	U	U	0.66	0.47 J	0.71 J	1.4	0.43 J	0.31 J	0.3 J
bromodichloromethane	3.3	0.33	4.0	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	220	22	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	15	0.63	U	U	0.65 J	U	0.56 J	2.6	U	8.2	U	0.69 JM	1 J
carbon tetrachloride	20	2	U	U	0.70 J	0.43 J	0.52 J	0.41 J♦	0.35 JM	0.37 J♦	U	0.53 J	U	0.78 J	0.2 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	0.90 J	U	U	U
chloroform	5.3	0.53	30	0.84	U	U	0.43 J	U	U	1.1	U	2.6	U	1.1	U
chloromethane	3,900	390	U	U	U	U	0.24 J	0.2 J	0.18 J	0.27 J	U	U	U	0.31 J	0.22 J
cis-1,2-dichloroethene	NA	NA	9.7	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	0.67 J	U	0.45 J	U
cyclohexane	260,000	26,000	U	2.5	5.7	2.8	U	8.7 J	U	0.25 J	U	2.7	U	U	0.14 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	6.6	4.6	3.1	U	0.34 J	0.89	1	2	0.40 J	4.6	0.24 J	4.5	U
freon 11 (trichlorofluoromethane)	31,000	3,100	3.0	1.8	2.6	1.3	1.3	1.3	1.1	1.3	U	1.6 J	U	2.1	0.89 J
freon 113 (freon TF)	1,300,000	130,000	U	0.86 J	0.78 J	0.64 J	0.62 J	0.64 J	0.52 J	0.61 J	U	0.84 J	0.38 J	0.99 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	3.8	2.9	U	2.7	2.4 J	2.6 ♦	2.2 J♦	2.3 J	2.0 J	2.9 J	2.4 J	4	1.5 J
freon 22	2,200,000	220,000	NA	NA	NA	U	0.86 J	0.89 J♦	0.79 J♦	0.79 J	U	0.92 J	0.68 J	1.4 J	1 J
heptane	NA	NA	25	3.4	8.1	4.1	U	3.9 J	0.39 J♦	0.37 J	U	1.0 J	U	U	U
hexane	31,000	3,100	52	4.9	16	10	U	13 J	0.22 J♦	2.5	0.81 J	1.5	U	U	1.7
isopropyl alcohol	NA	NA	U	14	U	1.1 J	0.87 J	98 J	6.6 J	14	120	68	2.2 J	4.5 J	U
m,p-xylene (sum of isomers)	4,400	440	17	19	11	0.32 J	1.0 J	3.4	3.6	5.6	1.2 J	13	0.69 J	5	0.36 J
methyl butyl ketone	NA	NA	U	U	U	U	U	U	0.31 J♦	0.34 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	2.3	U	0.55 J	1.3 JB	4.1 J	1.4 J♦	3.6	U	11	U	2.3	1.1 J
methyl isobutyl ketone	130,000	13,000	U	U	U	3.5	U	U	U	1.2 J	U	1.4 J	U	0.88 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	2.8 J	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	1.3 J	U	U	U
methylene chloride	12,000	1,200	3.8	U	U	U	0.44 J	0.55 J	0.40 J♦	0.84 J	U	U	U	0.97 JM	0.66 J
naphthalene	3.6	0.36	U	U	U	U	U	U	0.98 J	0.85 J	U	U	U	0.99 J	0.58 J
n-Butane	NA	NA	NA	NA	NA	U	0.43 J	1.2 J♦	U	0.44 J	5.0	2.9	U	4.3	12
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	1.0 J	U	0.46 J	U
o-xylene	4,400	440	7.5	4.9	2.0	0.11 J	0.39 J	1.3	1.4	1.6	1.7 J	4.3	0.14 J	2.0	0.38 J
styrene	44,000	4,400	U	U	U	U	0.20 J	0.2 J	0.37 J♦	0.43 J	U	2.5	U	0.45 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	U	0.69 J♦	1.8 J	U	16 J	U	4.1 J	U
tetrachloroethylene (pce)	470	47	140	3.7	2.0	2.4	1.5	0.5 J	0.71 J♦	3.3	U	8.3	U	6.4	0.83 J
tetrahydrofuran	NA	NA	U	U	U	U	0.43 J	U	U	2.5 J	U	7.5 J	U	U	U
toluene	220,000	22,000	35	15	29	0.61 J	1.5	3.7 J	3	4.2	3.0	14	0.85	2.5	U
trichloroethylene (tce)	30	3	4,900	84	49	13	24	9.1 J♦	16♦	140♦	26	270	U	160	41
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$ microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			786VMP-2												
Sample ID	**Sub-slab Vapor Screening Level* ($\mu g/m^3$)**	**Indoor Air Screening Level* ($\mu g/m^3$)**	**786VMP0202AA**	**786VMP0202AB**	**786VMP0202AC**	**786VMP0202AE**	**786VMP0202AG**	**786VMP0202HA**	**786VMP0202IA**	**786VMP0202JA**	**786VMP0202KA**	**786VMP0202LA**	**786VMP0202NA**	**786VMP0202PA**	**786VMP0202QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Jan-2011**	**24-Aug-2011**	**24-Oct-2011**	**7-Feb-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**29-Jan-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$															
1,1,1-trichloroethane	220,000	22,000	15	4.2	3.7	0.78 J	2.1	U	3.7	6.8	1.5	14	0.55 J	4.7	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	0.75 J	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	4.5	7.5	1.6	0.62 J	1.2	1.4	1.5	U	0.49 J	U	0.16 J♦	2.4 ♦	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	1.7	3.1	0.55 J	0.26 J	0.33 J	0.44 J	0.41 J	0.25 J	U	U	U	0.63 J♦	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	28	1.9	0.28 J	4.9	U	U	1.3 ♦	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	0.12 J♦	U
2-chlorotoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	1.8	U	1.3	U	U	6.8	0.61 J	U	U	U	U	0.14 J	U
4-ethyltoluene	NA	NA	0.95	2	0.55 J	0.29 J	0.36 J	0.37 J	0.46 J	U	U	U	U	0.72 J♦	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	0.82 J♦	U
acetone	1,400,000	140,000	49	25	U	1.9 J	26 B	25	4.8 J	15	31 J♦	U	5.5 J	12 ♦	3.4 J
benzene	16	1.6	4.6	0.32 J	2.2	U	0.19 J	0.66	0.44 J	0.42 J	0.66 ♦	0.49 J	0.63	0.27 J	U
bromodichloromethane	3.3	0.33	7.4	3.2	1.7	0.32 J	1.3 J	U	0.70 J	0.96 J	U	2.1 J	U	0.86 J	U
bromomethane	220	22	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	5.3	1.4	0.41 J	U	0.64 J	U	0.62 J	0.45 J	U	1.1 J	U	26 ♦	0.14 J
carbon tetrachloride	20	2	U	U	U	0.44 J	0.53 J	0.41 J	0.47 J	0.34 J	U	U	0.32 J	0.57 J	U
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	620	100	72	12	31	2.4	55	58	11	160	3.8	31	3.1
chloromethane	3,900	390	U	U	U	U	0.27 J	U	0.28 J	0.19 J	U	U	U	2.9 ♦	0.37 J
cis-1,2-dichloroethene	NA	NA	1.4	U	U	U	U	U	0.34 J	0.32 J	U	0.90 J	U	0.35 J	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	0.5 J♦	U
cyclohexane	260,000	26,000	U	U	U	U	0.38 J	9.1	U	U	3.4 J♦	U	U	U	U
ethyl acetate	3,100	310	U	1.1	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	1.5	8.8	2.7	1.4	1.9	1.6	0.77 J	0.64 J	0.56 J	U	0.16 J♦	4.2 ♦	U
freon 11 (trichlorofluoromethane)	31,000	3,100	2.7	1.7	1.4	1.3	1.4	1.4	1.2	1.3	0.91 J♦	1.9 J	U	1.6	0.65 J
freon 113 (freon TF)	1,300,000	130,000	3.7	1.1 J	1.1 J	0.55 J	0.78 J	0.75 J	0.78 J	1.5	1.2 J♦	2.3 J	0.68 J	1.2 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	3.5	2.8	2.3	2.5	2.4 J	2.7	1.9 J	2.4 J	3.0 ♦	3.0 J	3.1	2.5	1.7 J
freon 22	2,200,000	220,000	NA	NA	NA	U	1.2 J	0.98 J	0.73 J	0.82 J	U	1.0 J	1 J	0.84 J♦	0.73 J
heptane	NA	NA	5.8	U	1.7	U	0.38 J	3.7	U	U	0.85 ♦	U	0.23 J	0.26 J♦	U
hexane	31,000	3,100	U	U	U	0.22 J	0.76	15	0.19 JM	2.5	1.1 J♦	U	U	0.31 J♦	U
isopropyl alcohol	NA	NA	U	U	U	1.4 J	1.5 J	170	3.1 J	1 J	24	U	1.4 J	3.7 J♦	U
m,p-xylene (sum of isomers)	4,400	440	4.8	32	9.9	4.6	7.2	6.3	2.8	1.5 J	1.5 J	U	0.39 J♦	4.9 ♦	U
methyl butyl ketone	NA	NA	9.2	8.7 J	U	U	0.84 J	U	U	0.58 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	15	U	U	U	4.8 B	7	1.4 J	3.2	3.1 ♦	U	1.4 J	3.1 ♦	U
methyl isobutyl ketone	130,000	13,000	6.7	U	U	1.0 J	0.74 J	U	U	0.78 J	U	U	U	0.72 J♦	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	1.4	23	2.5	15	2.8	0.83 J	2.3	1.3 J	1.0 J♦	U	0.65 J♦	0.41 J♦	U
naphthalene	3.6	0.36	U	U	U	U	0.53 J	U	0.77 J	0.52 J	U	U	U	0.87 J♦	U
n-Butane	NA	NA	NA	NA	NA	0.67 J	2.1	1.3	0.37 J	0.26 J	0.85 J♦	U	1.1 J	0.86 J♦	U
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	U	U	0.53 J♦	U
o-xylene	4,400	440	2.2	6.6	2.1	1.1	1.6	2.2	1	0.53 J	0.61 J	U	0.18 J♦	2.1 ♦	U
styrene	44,000	4,400	U	2.2	U	U	0.25 J	U	U	0.22 J	0.29 J	U	U	0.39 J♦	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.1 J	U	U	3.3 J	4.2 J♦	U	U	2.1 J♦	U
tetrachloroethylene (pce)	470	47	11	0.83 J	2.9	U	0.82 J	U	0.93 J	0.54 J	U	1.6 J	U	3	U
tetrahydrofuran	NA	NA	16	U	U	U	0.67 J	U	U	0.42 J	U	1.3 J	1.3 J	18 ♦	U
toluene	220,000	22,000	6.7	16	11	2.2 B	4.4	5.2	2.1	2	4.3 ♦	0.59 J	0.9	1.9 ♦	U
trichloroethylene (tce)	30	3	740	260	140	22	110	6.3	150	120	6.3	410	6.3	130	0.41 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			786VMP-3												
Sample ID	**Sub-slab Vapor Screening Level* ($\mu g/m^3$)**	**Indoor Air Screening Level* ($\mu g/m^3$)**	**786VMP0302AA**	**786VMP0302AB**	**786VMP0302AC**	**786VMP0302AD**	**786VMP0302AG**	**786VMP0302HA**	**786VMP03021A**	**786VMP0302JA**	**786VMP0302KA**	**786VMP0302LA**	**786VMP0302NA**	**786VMP0302PA**	**786VMP0302QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Jan-2011**	**24-Aug-2011**	**24-Oct-2011**	**27-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**29-Jan-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$															
1,1,1-trichloroethane	220,000	22,000	16	U	U	U	U	U	U	0.6 J	U	1.9	U	U	U
1,1-dichloroethane	77	7.7	1.4	U	U	U	U	U	U	U	U	0.57 J	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	0.62 J	U	U	0.39 J	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	13	2.4	0.8	0.33 J	U	U	U	0.96	0.30 J	6.2	0.38 J	U	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	9.9	0.65 J	U	U	U	U	U	0.3 J	U	1.6	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	0.41 J	U	18	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	1.4	U	U	U
2-chlorotoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	0.42 J	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	1.4	0.24 J	U	U	1.9	U	U	2.3	U	U	0.32 J
4-ethyltoluene	NA	NA	8.1	0.60 J	U	U	U	U	U	0.28 J	U	2.1	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	2.2	U	0.76 J	U	U	U
acetone	1,400,000	140,000	50	24	4.3	1.2 J	94	17	5.5 J	9.3 J	31 J	44	7.8 J	50	13
benzene	16	1.6	4.7	0.32 J	4.2	0.25 J	1.0	0.7	U	0.46 J	0.82	3.5	0.7	2.8	0.77
bromodichloromethane	3.3	0.33	2.9	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	220	22	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	3.1	0.95	U	U	0.91 J	U	0.38 J	3.3	0.64 J	15	U	2.1	U
carbon tetrachloride	20	2	U	U	0.64 J	0.48 J	0.55 J	U	0.44 J	0.31 JM	0.28 J	0.45 J	0.49 J	0.56 J	0.39 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	3.0	U	U	U
chloroform	5.3	0.53	47	U	U	U	0.33 J	U	U	0.41 J	0.21 J	1.4	U	U	U
chloromethane	3,900	390	U	U	U	U	U	0.2 J	0.14 J	0.32 J	U	0.47 J	U	U	U
cis-1,2-dichloroethene	NA	NA	1.1	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	1.1	U	U	U
cyclohexane	260,000	26,000	U	U	U	U	U	3.6	U	U	U	3.7	U	U	0.28 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	9.8	1.6	1.1	0.40 J	0.34 J	U	U	0.8 J	0.31 J	6.4	U	0.71 J	0.15 J
freon 11 (trichlorofluoromethane)	31,000	3,100	3.2	1.7	1.5	1.4	1.4 J	1.4	1.2	1.2	1.1	2	1.4	1.4	1 J
freon 113 (freon TF)	1,300,000	130,000	3.4	0.78 J	U	0.54 J	0.67 J	0.6 J	0.59 J	U	0.69 J	0.67 J	0.65 J	0.63 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.8	2.6	2.7	2.7 J	2.6	2.1 J	0.56 J	3.1	3.5	3	2.6	1.9 J
freon 22	2,200,000	220,000	NA	NA	NA	0.97 J	1.0 J	0.98 J	U	0.84 J	0.86 J	1.3 J	1 J	0.94 J	0.81 J
heptane	NA	NA	4.7	1.2	1.9	0.40 J	0.83 J	U	0.51 J	U	7.5	2.2	0.67 J	22	1.3
hexane	31,000	3,100	U	U	6.8	1.5	U	2.9	U	0.48 JM	4.9	1.9	0.96	24	1.8
isopropyl alcohol	NA	NA	U	11	U	U	2.8 J	34	2.3 J	5.5 J	U	73	3.4 J	1.2 J	U
m,p-xylene (sum of isomers)	4,400	440	16	5.3	3.4	1.4 J	0.75 J	U	U	1.7 J	0.37 J	17	0.42 J	0.77 J	0.36 J
methyl butyl ketone	NA	NA	7.6	U	U	U	7.6	U	U	U	U	U	U	1.9 J	0.42 J
methyl ethyl ketone	220,000	22,000	19	6.3 J	U	U	35	3.5	0.95 J	3.6	7.4	11	2.1	25	4.3
methyl isobutyl ketone	130,000	13,000	U	U	U	4.0	1.3 J	U	U	0.75 J	1.4 J	2.2	U	1.9 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	3.3	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	1.7	U	U	U
methylene chloride	12,000	1,200	U	U	U	0.50 J	U	U	U	1.4 J	0.53 J	1.3 J	0.63 J	U	U
naphthalene	3.6	0.36	U	U	U	U	0.87 J	U	U	18.0	U	U	U	0.23 J	U
n-Butane	NA	NA	NA	NA	NA	U	U	U	U	0.33 J	2.4	0.97 J	0.76 J	33	3.2
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	2.3	U	U	U
o-xylene	4,400	440	6.2 J	1.5	0.84	0.38 J	0.24 J	U	U	0.62 J	0.19 J	5.2	0.11 J	0.34 J	U
styrene	44,000	4,400	4.8	0.95	U	U	U	U	U	0.27 J	U	3.0	U	0.16 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	0.47 J	150	U	U	2.2 J	U	17	U	0.65 J	U
tetrachloroethylene (pce)	470	47	85	2.6	1.5	U	4.6	U	4.2	U	0.77 J	8.5	U	1.1 J	U
tetrahydrofuran	NA	NA	36	U	U	U	U	11 J	U	2 J	U	12 J	1.3 J	U	U
toluene	220,000	22,000	16	5.2	7.7	0.62 J	2.7	0.2 J	0.70 J	3.2	1.0	19	0.44 J	2.6	0.86
trichloroethylene (tce)	30	3	2,200	51	23	1.9	36	1.8	6.5	58	11	200	0.24 J	18	0.4 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			786-1A											
Sample ID	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	786IA04	786IA05	786IA06	786IA07	786IA08	786IA09	786IA10	786IA11	786IA12	786IA13	786IA14	786IA1QA
Sample Type			Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Sample Date			24-Aug-2011	24-Oct-2011	27-Jan-2012	8-Aug-2012	6-Mar-13	9-Aug-13	3-Oct-13	28-Jan-14	17-Jul-14	26-Jan-15	1-Sep-15	2-Feb-16
Sample Depth (ft bgs / ags)			5	5	5	5	5	5	5	5	5	5	5	5
Sample Collection Duration (hr)			12	12	12	12	12	12	12	12	12	12	12	8
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	5.1	1.9	U	0.59 J	U	U	2.8	U	0.15 J	U	0.63 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	0.44 J	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.6	U	U	U	U	U	0.78 J	U	U	U	0.19 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	U
2-chlorotoluene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	0.81	U	0.41 J	0.80 J	2.4	0.38 J	U	0.76 J	U	U	0.44 JM	0.96
4-ethyltoluene	NA	NA	1.2	0.60 J	U	U	U	U	0.74 J	U	U	U	0.16 J	U
4-isopropyltoluene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	49	12	3.3 J	46	21	15	18	U	9.2 J	6.8 J	13	5.3 J
benzene	16	1.6	0.91	1.3	0.75	0.47 J	0.77	0.41 J	0.68	0.52 J	0.22 J	0.52 J	1.2 M	U
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	220	22	U	U	U	U	U	U	U	U	0.12 J	U	U	U
carbon disulfide	31,000	3,100	U	U	U	1.8	U	0.38 J	U	1.2 J	U	0.66 J	0.4 J	U
carbon tetrachloride	20	2	U	U	0.53 J	0.43 J	0.5 J	0.44 J	0.4 J	0.53 J	0.45 J	0.55 J	0.49 J	0.31 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	U	0.19 J	U	U	U	U	U	U	U	U
chloromethane	3,900	390	U	U	1.2	1.3	U	0.86 J	1	1.6	1.2	1.5	1.1	0.97 J
cis-1,2-dichloroethene	NA	NA	0.64	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	U	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	1.7	0.28 JB	0.35 J	U	0.18 J	U	U	U	U	0.21 JM	U
ethyl acetate	3,100	310	U	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	3	1.8	0.67 J	1.3	U	1.1	14	U	0.11 J	0.21 J	0.3 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	1.1	1.4	1.4	1.6	1.1 J	1.2	1.4	1.3	1.4	1.2	0.96 J
freon 113 (freon TF)	1,300,000	130,000	0.78 J	U	0.56 J	0.61 J	0.68 J	0.53 J	0.49 J	0.63 J	0.59 J	0.66 J	0.45 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	2.0	2.8	2.5	3	2.0 J	2.3 J	3.1	2.5	3	2.4 J	1.6 J
freon 22	2,200,000	220,000	NA	NA	U	1.3 J	1.1 J	0.78 J	0.86 J	1.1 J	1.1 J	1 J	0.94 J	0.75 J
heptane	NA	NA	1.7	0.96	0.48 JB	0.92	1.2	0.36 J	U	0.82	U	0.26 J	0.38 JM	U
hexane	31,000	3,100	U	2.6	1.3 B	1.5	8.2	0.56 J	0.38 J	0.77	U	0.37 J	0.8	U
isopropyl alcohol	NA	NA	8.2	3.0	U	3.0 J	1.1 J	2.6 J	1.8 J	U	1.8 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	11	6.2	1.8 J	3.9	U	3.3	47	U	0.30 J	0.37 J	1.1 J	U
methyl butyl ketone	NA	NA	U	U	U	0.40 J	U	0.42 J	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	5.9	U	0.76 J	4.5 B	3.8	3.1	7.6	U	1.2 J	1.1 J	1.6	0.87 J
methyl isobutyl ketone	130,000	13,000	U	U	2.6	0.71 J	U	0.98 J	2.7	U	U	U	0.75 J	U
methyl methacrylate	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	2.7	U	0.67 J	1.0 J	0.69 J	0.47 J	0.75 J	0.68 J	U	0.7 J	0.79 J	0.63 J
naphthalene	3.6	0.36	U	U	U	U	U	0.86 J	U	U	U	U	0.21 J	U
n-Butane	NA	NA	NA	NA	2.3	7.8	3.2	1.3	1.4	2.2	U	2.1	1.9	1.2 J
n-Propylbenzene	44,000	4,400	NA	NA	U	U	U	U	0.48 J	U	U	U	U	U
o-xylene	4,400	440	2.7	1.7	0.51 J	1.0	U	0.80 J	14	U	0.11 J	0.14 J	0.45 J	U
styrene	44,000	4,400	1.8	U	U	0.62 J	U	0.33 J	0.58 J	U	U	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	U	U	U	0.56 J	U	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	0.34 J	U	U	U	U	1.2 J	U	U	U
tetrahydrofuran	NA	NA	U	U	U	1.5 J	U	U	U	U	U	U	U	U
toluene	220,000	22,000	8.8	9.4	2.4 B	7.3	0.98	4.5	9.3	0.33 J	0.52 J	0.51 J	1.6	U
trichloroethylene (tce)	30	3	2.5	U	U	U	U	U	U	U	U	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-5
Buildings 785/786
SSVM Performance Monitoring Influent Results

Sample Location	785786-Influent									
Sample ID	**785786CA01AA**	**785786CA01AB**	**785786CA01AC**	**785786CA01AD**	**785786CA01AG**	**785786CA01AH**	**785786CA01IA**	**785786CA01LA**	**785786CA01MA**	**785786CA01NA**
Sample Type	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**
Sample Date	**19-May-2011**	**23-Aug-2011**	**25-Oct-2011**	**24-Jan-2012**	**3-Aug-2012**	**14-Feb-2013**	**7-Aug-2013**	**20-Jan-2015**	**28-Aug-2015**	**1-Feb-2016**
Sample Depth (ft bgs)	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Sample Collection Duration (hr)	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**
Volatiles (TO-15) in µg/m^3										
1,1,1-trichloroethane	4.8	1.4	1.6	0.32 J	U	U	0.36 J	U	0.5 JM	U
1,2,4-trimethylbenzene	6.9	1.7	2.8	0.26 J	1.4 J	0.73 J	0.74 J	0.23 J	0.16 J	U
1,2-dichloroethene	U	U	U	U	U	U	U	0.36 J	1.1 J	U
1,3,5-trimethylbenzene	6.3	1.5	U	U	0.65 J	U	U	U	U	U
1,3-butadiene	U	U	U	U	U	0.23 J	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	0.49 J	U	U	U	U	U
1,4-dioxane	U	U	U	U	U	U	U	U	U	13 JD
2,2,4-trimethylpentane	300	31	33	7.9	9.5	10	2.8	3.9	0.17 J	U
4-ethyltoluene	U	0.75	U	U	0.36 J	U	U	0.1 J	U	U
4-isopropyltoluene	NA	NA	NA	U	U	U	U	U	U	2.7 D
acetone	180	5.1	U	1.2 J	56	110	4.3 J	14	17	58 D
benzene	1.9	0.81	U	U	0.51 J	0.72 J	0.47 J	0.42 J	0.61 J	0.38 JD
carbon disulfide	6.9	0.79	U	U	0.70 J	U	U	1.7	4.4	U
carbon tetrachloride	U	U	U	0.48 J	0.44 J	0.45 J	0.37 J	1.45 J	1 J	U
chloroethane	U	U	U	U	U	U	U	U	0.19 J	U
chloroform	59	8.1	7.8	1.6	2.8	U	1.2	0.67 J	2.5	U
chloromethane	U	U	U	U	0.45 J	0.59 J	0.24 J	U	1.5	0.48 J
cis-1,2-dichloroethene	17	4.5	3.0	0.56 J	1.6	U	1	0.36 J	1.2 M	0.63 J
cumene	NA	NA	NA	U	U	U	U	0.25 J	U	U
cyclohexane	180	28	U	U	4.4	7.6	U	0.24 J	U	U
ethylbenzene	5.9	2.9	1.7	0.30 J	1.1 J	U	0.41 J	0.19 J	0.29 J	U
freon 11 (trichlorofluoromethane)	1.4	1.8	1.5	1.4	1.4 J	1.5 J	1.1	1.5	2.6	1 J
freon 113 (freon TF)	0.78 J	0.78 J	U	0.52 J	0.62 J	0.73 J	0.52 J	0.66 J	1.1 J	U
freon 12 (dichlorodifluoromethane)	2.4	2.7	U	2.5	2.3 J	3.3 J	2.3 J	3	5	2 J
freon 22	NA	NA	NA	U	U	1.3 J	U	1 J	2.3	0.84 J
heptane	130	30	26	3.1	2.5	10	0.15 J	U	U	U
hexane	150	13	U	1.5	5.4	22	0.20 J	U	0.24 J	U
isopropyl alcohol	U	U	U	U	9.6 J	6.8 J	3.9 J	1.5 J	1.1 J	U
m,p-xylene (sum of isomers)	16	6.3	6.0	0.98 J	3.3	1 J	1.5 J	0.41 J	0.87 J	U
methyl ethyl ketone	20	U	U	0.27 J	5.3 B	2.3 J	0.66 J	3.7	3.3	4.4
methylene chloride	1.4	U	U	0.54 J	2.0 J	U	0.55 J	U	0.73 JM	U
naphthalene	U	U	U	U	2.3 J	U	0.56 J	U	0.18 J	U
n-butane	NA	NA	NA	2.8	13	2.8	U	3.6	1.1 JM	0.62 J
n-Propylbenzene	NA	NA	NA	U	U	U	U	0.65 J	U	U
o-xylene	6.5	3.4	1.9	0.30 J	1.3 J	0.4 J	0.47 J	0.13 J	0.28 J	U
styrene	U	U	U	U	0.48 J	U	0.14 J	U	U	U
tert-butyl alcohol	NA	NA	NA	U	1.0 J	U	U	U	0.46 J	U
tetrachloroethylene (pce)	250	52	72	11	22	6.6	11	5	6.1	1.2 J
tetrahydrofuran	510	U	U	U	2.6 J	U	U	0.62 J	U	U
toluene	5.6	3.4	3.8	0.44 J	9.5	0.97 J	1.6	0.27 J	0.89	U
trichloroethylene (tce)	3500	520	740	140	250	93	130	72	140	80
vinyl chloride	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m^3: microgram per cubic meter.
B - Analytes detected in the trip blank.