BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

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***TRANSMITTED VIA E-MAIL***

April 29, 2016

Scott Luna
Bergen County Department of Public Works
One Bergen County Plaza
4th Floor, Room 411
Hackensack, NJ 07601

Re: Expanded Utility Interference Investigation
Public Works Facility and Police Department
66-70 Zabriskie Street, Hackensack, Bergen County, New Jersey
NJDEP Case No. 88-02-22-1518
Brinkerhoff Project No. 12BR051

Dear Mr. Luna:

Brinkerhoff Environmental Services, Inc. (Brinkerhoff) is pleased to provide the following letter report summarizing the findings of the Expanded Utility Interference Investigation conducted on April 22, 2016.

## BACKGROUND

The former underground storage tank (UST) tank field for the Police Department (USTs – E1 2,000 gallon gasoline, and E-2 – 5,000 gallon gasoline) were removed circa 1988 with significant contamination identified. A replacement UST (fiberglass construction) was installed inside the existing contaminated tank field. In March 2013, the replacement UST (E-1 5,000 gallon gasoline) was removed with contamination evident in soil and groundwater in the excavation.

The Waste Oil UST (550-gallon) that was located within the gasoline-contaminated area of the Police Department Tank Field has also been removed. The delineation of soil contamination at this location has been completed and was reported in the 2014 Remedial Investigation Report (RIR). During the groundwater investigation completed in this area, monitoring well MW-13 was sampled and found to contain elevated levels of gasoline-related parameters in exceedance of the NJDEP Groundwater Quality Standards (GWQS). Monitoring well sampling has confirmed that the plume does not appear in the downgradient wells across Kinderkamack Road (MW-18 through MW-21).

During a review of nearby utility maps and discussions with utility providers, it was determined that utility lines dissect the area of the plume and the downgradient monitoring wells. Therefore, additional investigation was recommended to evaluate whether the presence of utility lines and/or bedding gravel are acting as a barrier, or creating a preferential pathway transporting the contamination to unexpected areas.

## SCOPE OF WORK

To address this potential utility interference, it was proposed that a temporary well point investigation be conducted which targeted both the upgradient and downgradient areas of the identified utility lines. Brinkerhoff's previous attempt to conduct this investigation was not successful, as the asphalt surfacing of Kinderkamack Road was found to be underlain by reinforced concrete.

Based on consultation with our drilling subcontractor, the following alternate work method was proposed:

- Concrete clearance via hand coring;
- Advancement of soil borings via direct-push drill rig (i.e. Geoprobe®);
- Field observations for signs of petroleum impact;
- Installation of temporary well points; and
- Collection of groundwater samples for analysis of volatile organic compounds (VOCs).

On April 22, 2016, Brinkerhoff personnel directed Bucks County Artesian Well Drilling Company's (Bucks) installation of six (6) temporary well points at the intersection of Kinderkamack Road and Jefferson Street, in Hackensack, New Jersey. The locations of the temporary well points are provided on **Figure 1.**

Soil from each of the six (6) locations was screened for evidence of petroleum contamination via a properly calibrated Photoionization Detector (PID) and visual and olfactory determination. Staining, odors, and PID response was not observed in the soil. Subsequent to soil screening, slotted PVC piping was advanced to a depth of approximately 10 feet below grade at each location. A groundwater interface probe was then used to determine the depth to water, and the presence of liquid-phase hydrocarbons (LPH). LPH was not encountered.

Brinkerhoff staff utilized a peristaltic pump to purge each well point of three (3) to five (5) volumes before collecting groundwater samples using a dedicated bailer, pursuant to the *NJDEP's August 2005 Field Sampling Procedures Manual* (FSPM). Samples were collected utilizing laboratory provided glassware and designated as TWP-1 through TWP-6.

Brinkerhoff hand delivered the collected samples to TestAmerica (Certification No. 12028) in Edison, New Jersey. The samples were chilled to a temperature of at least four (4) degrees Celsius and analyzed within the required sample holding times. Samples TWP-1 through TWP-6 were analyzed for VOCs with a 15-peak library search (VOC+15) including 1,2-dibromomethane and 1,2-dichloroethane. Sample results are summarized in **Table 1** – Utility Interference Investigation Groundwater Analytical Results.

## SUMMARY OF FINDINGS

**Gasoline Contamination** - The investigation indicated no field evidence of gasoline impact in the vicinity of the utility lines.

Laboratory analysis indicated only the presence of benzene in one (1) of the six (6) locations (TWP-5), at a concentration of 14 parts-per-billion (ppb). Although this result is in excess of the NJDEP Groundwater Quality Standards (GWQS) for benzene of one (1) ppb, it is not indicative of gross impact. TWP-5 is located downgradient of the utility lines.

The above findings suggest that there is minimal gasoline impact in the vicinity of the utility lines, and there is no evidence that the utility lines are significantly affecting the behavior of the gasoline contaminant plume from the Police Department Tank Field.

**Chlorinated VOC Contamination** - The investigation indicated no field evidence of chlorinated VOC impact in the vicinity of the utility lines.

Laboratory analysis indicated the presence of tetrachloroethylene (PCE) and trichloroethylene (TCE) in five (5) of the six (6) TWP locations. Concentrations for PCE ranged from five (5) ppb to 230 ppb. Concentrations for TCE ranged from 1.4 ppb to 12 ppb.

Based on the distribution of the chlorinated VOCs, there is no evidence that the utility lines are significantly affecting the behavior of the chlorinated VOC plume. The source of the chlorinated VOCs is currently unknown.

In consideration of these findings, combined with our knowledge of the subject property and surrounding area, Brinkerhoff has the following comments:

- Based on previously collected monitoring well data as described in the completed RIR, the distribution of the chlorinated VOCs at this location suggests a potential source near monitoring well MW-21. This location is off-site at the intersection of Kinderkamack Road and Jefferson Street. (See Figure 1.) There is a listing under the Historical Cleaners database for this location in the Environmental Data Resources (EDR) report, although no other information is available. (Refer to the Preliminary Assessment Report.)

- The review of the historical 1950 Sanborn Fire Insurance Map indicates the presence of a solvent manufacturing facility on the southern side of Zabriskie Street. The 1976 Sanborn Map indicates a gasoline filling station at the intersection of Kinderkamack Road and Zabriskie Street. (See attachments.) The NJDEP file documents reviewed for this project include documentation of the presence of chlorinated VOCs on the southern side of Zabriskie Street. Based on documented groundwater flow direction, this is upgradient of the subject property.

- Contributions to the chlorinated VOC contamination are possible from the subject property, although existing data are not conclusive. During Brinkerhoff's previous sampling events, PCE was not detected in monitoring well MW-13*. PCE was detected in MW-14 at low concentrations up to 4.3 ppb. These monitoring wells are located in close proximity to the Police Department Garage.

*Due to the presence of the gasoline contamination, detection limits were slightly elevated due to laboratory sample dilution.

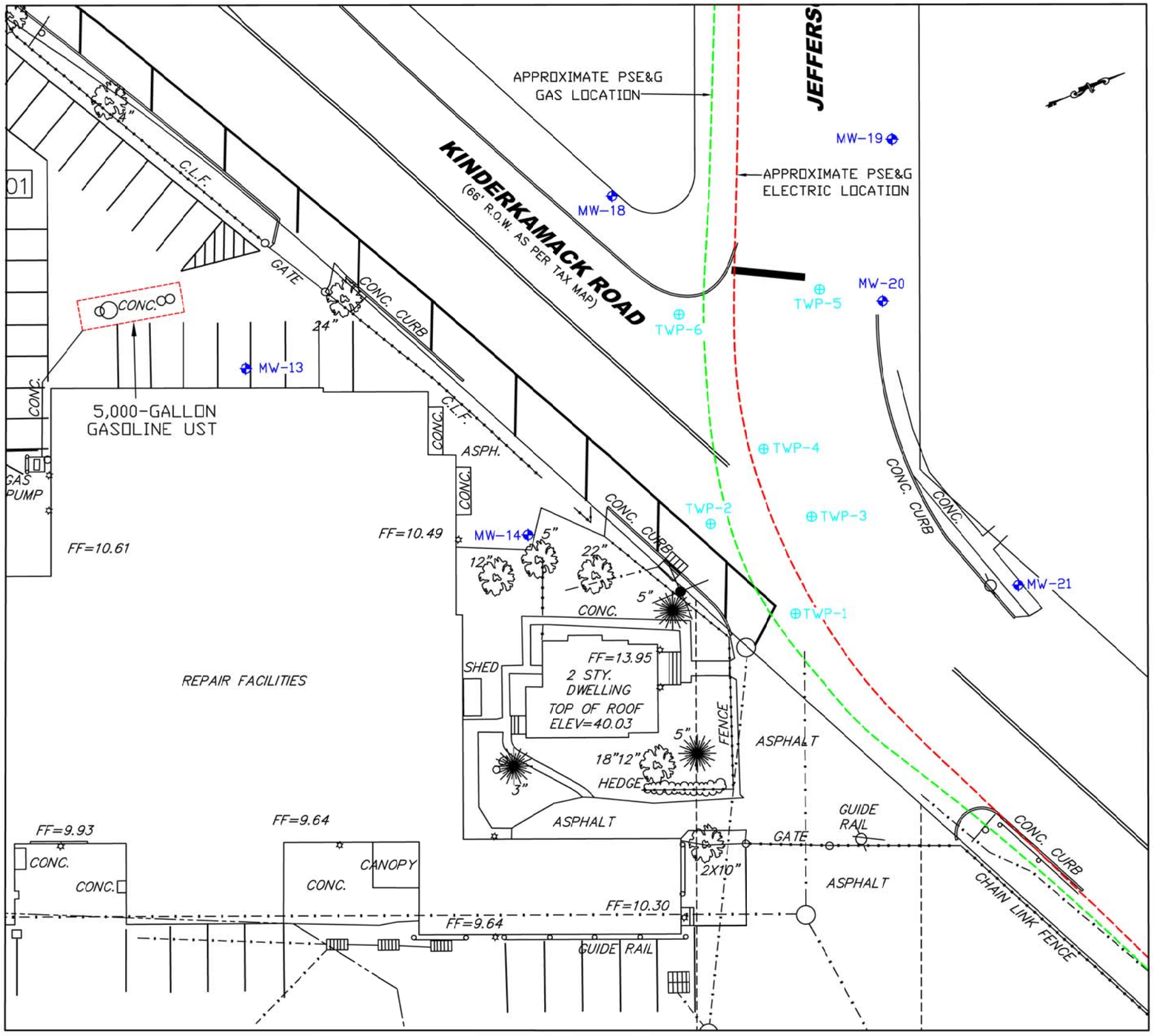
Should you have any questions, please feel free to contact the undersigned at (732) 223-2225.

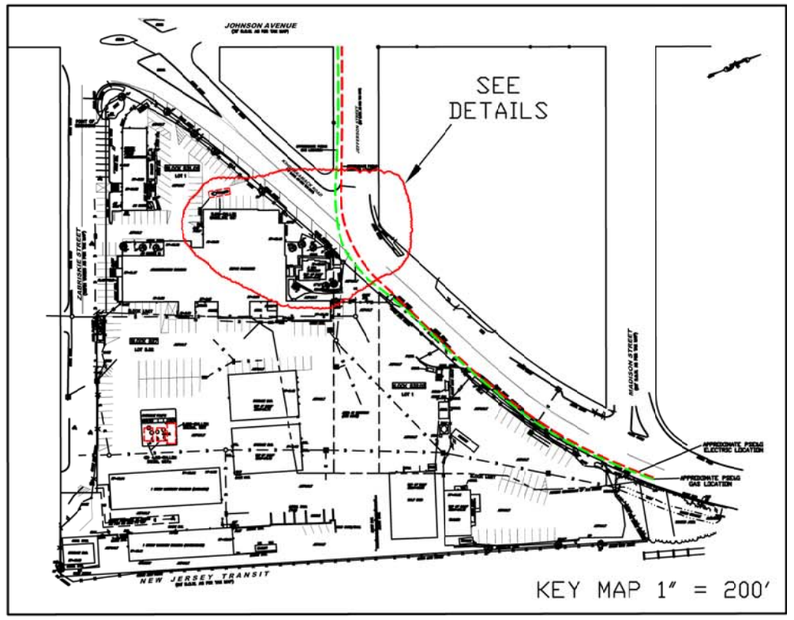
Respectfully submitted,

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

JEFFREY R. PASSMAN
Project Manager

GARY G. DiMARTINIS, LSRP
Senior Project Manager




KEY MAP 1" = 200'

LEGEND

- ⊕ - MONITORING WELL LOCATION MW-1
- ⊕ - TEMPORARY WELL POINT LOCATION TWP-1

0' 15' 30'

SCALE: 1"=30'

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FIGURE 1 - SAMPLE LOCATION MAP
66-70 ZABRISKIE STREET
BLOCK 527, LOT 5.02, BLOCK 531.01, LOT 1 /
BLOCK 532.02, LOT 1
HACKENSACK, BERGEN COUNTY, NEW JERSEY

| DATE: 4/29/16 | JOB NO.: 12BR051 | SCALE: AS SHOWN |
|---|---|---|

**Table 1**
**Utility Interference Investigation Groundwater Analytical Results**
**12BR051**
**66 Zabriskie Street**
**Hackensack, Bergen County, NJ**
**April 22, 2016**

| Parameter | Sample ID: | TWP-1 | TWP-2 | TWP-3 | TWP-4 | TWP-5 | TWP-6 | NJDEP GWQS |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds (VO+15)** | | | | | | | | |
| Benzene | | ND | ND | ND | ND | **14** | ND | ***1*** |
| Tetrachloroethene (PCE) | | **5.0** | **10** | **12** | **230** | **12** | ND | ***1*** |
| Trichloroethene (TCE) | | **1.4** | **2.2** | **2.0** | **12** | **3.1** | ND | ***1*** |
| VO TICs (Total) | | ND | 81.9 | ND | ND | 35.0 | ND | *100/500* |

Notes:
Results reported in ug/L
J - Concentration detected at a value below the
above the MDL for target compounds.
for TICS, estimated concentration
TICs - tentatively identified compounds
NEC - no established criteria
Results highlighted in YELLOW indicate an exceedance to the NJDEP Standard
NJDEP - New Jersey Environmental Protection
GWQS - Class II-A Groundwater Quality Standards, readopted without change March 4, 2014
N - Presumptive evidence of a compound from the use of GC/MS library search

0′ 75′ 150′

SCALE: 1"=150′

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1950 – SANBORN FIRE INSURANCE MAP
66 & 70 ZABRISKIE STREET
BLOCK 527, LOT 5.02, BLOCK 531.01, LOT 1
& BLOCK 531.02, LOT 1
HACKENSACK, BERGEN COUNTY, NEW JERSEY

| DATE: 6/10/13 | JOB NO.: 12BR051 | SCALE: 1″ = 150′ |
|---|---|---|

0′ 75′ 150′

SCALE: 1"=150′

# BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

1976 - SANBORN FIRE INSURANCE MAP
66 & 70 ZABRISKIE STREET
BLOCK 527, LOT 5.02, BLOCK 531.01, LOT 1
& BLOCK 531.02, LOT 1
HACKENSACK, BERGEN COUNTY, NEW JERSEY

| DATE: 6/10/13 | JOB NO.: 12BR051 | SCALE: 1" = 150′ |
|---|---|---|

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 460-112643-1

Job Description: Bergen County DPW/12BR051

For:
Brinkerhoff Environmental Services, Inc.
1805 Atlantic Ave
Manasquan, NJ 08736

Attention: Mr. Jeff Passman

Approved for release.
Marie A Meidhof
Project Manager II
4/27/2016 10:23 AM

Marie A Meidhof, Project Manager II
777 New Durham Road, Edison, NJ, 08817
marie.meidhof@testamericainc.com
04/27/2016

cc: Mr. Gary G DiMartinis

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

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# CASE NARRATIVE

## Client: Brinkerhoff Environmental Services, Inc.

## Project: Bergen County DPW/12BR051

## Report Number: 460-112643-1

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

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

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

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

**RECEIPT**

The samples were received on 4/22/2016 3:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

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

**VOLATILE ORGANIC COMPOUNDS DKQP AQUEOUS**

Samples TWP-1 (460-112643-1), TWP-2 (460-112643-2), TWP-3 (460-112643-3), TWP-4 (460-112643-4), TWP-5 (460-112643-5) and TWP-6 (460-112643-6) were analyzed for Volatile organic compounds DKQP Aqueous in accordance with EPA SW-846 Methods 8260C DKQP. The samples were analyzed on 04/26/2016.

The continuing calibration verification (CCV) associated with batch 364733 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. Refer to the QC report for details.

No other difficulties were encountered during the Volatile organic compounds DKQP Aqueous analysis.

All other quality control parameters were within the acceptance limits.

# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

**Laboratory Name:** TestAmerica Edison

**Client:** Brinkerhoff Environmental Services, Inc.

**Project Location:** Bergen County DPW/12BR051

**Project Number:** 460-112643-1

**Laboratory Sample ID(s):** 460-112643-1, 460-112643-2, 460-112643-3, 460-112643-4, 460-112643-5, 460-112643-6

**Sampling Date(s):** 04/22/2016

**List DKQP Methods Used:** 8260C

| | | |
|---|---|---|
| 1 | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards? | ☑Yes ☐No |
| 1A | Were the method specified handling, preservation, and holding time requirements met? | ☐Yes ☐No ☑ See case narrative |
| 1B | *EPH Method:* Was the EPH method conducted without significant modifications? (see Section 11.3 of respective DKQ methods) | ☐Yes ☐No ☑N/A |
| 2 | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody documents(s)? | ☐Yes ☐No ☑ See case narrative |
| 3 | Were samples received at an appropriate temperature (4±2° C)? | ☑Yes ☐No ☐N/A |
| 4 | Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved? | ☐Yes ☑No |
| 5 | a) Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? | ☐Yes ☐No ☑ See case narrative |
| | b) Were these reporting limits met? | ☐Yes ☐No ☐N/A ☑ See case narrative |
| 6 | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP? | ☑Yes ☐No |
| 7 | Are project-specific matrix spike and/or laboratory duplicates included in this data set? | ☐Yes ☑No |

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet requirements for "Data of Known Quality."

# SAMPLE SUMMARY

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 460-112643-1 | TWP-1 | Water | 04/22/2016 1029 | 04/22/2016 1520 |
| 460-112643-2 | TWP-2 | Water | 04/22/2016 1109 | 04/22/2016 1520 |
| 460-112643-3 | TWP-3 | Water | 04/22/2016 1304 | 04/22/2016 1520 |
| 460-112643-4 | TWP-4 | Water | 04/22/2016 1310 | 04/22/2016 1520 |
| 460-112643-5 | TWP-5 | Water | 04/22/2016 1354 | 04/22/2016 1520 |
| 460-112643-6 | TWP-6 | Water | 04/22/2016 1402 | 04/22/2016 1520 |

# EXECUTIVE SUMMARY - Detections

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **460-112643-1** | **TWP-1** | | | | | |
| Chloroform | | 0.55 | J | 1.0 | ug/L | 8260C |
| MTBE | | 0.22 | J | 1.0 | ug/L | 8260C |
| Tetrachloroethene | | 5.0 | | 1.0 | ug/L | 8260C |
| Trichloroethene | | 1.4 | | 1.0 | ug/L | 8260C |
| **460-112643-2** | **TWP-2** | | | | | |
| Benzene | | 0.66 | J | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | | 16 | | 1.0 | ug/L | 8260C |
| Cyclohexane | | 4.1 | | 1.0 | ug/L | 8260C |
| Methylcyclohexane | | 1.1 | | 1.0 | ug/L | 8260C |
| MTBE | | 3.3 | | 1.0 | ug/L | 8260C |
| Tetrachloroethene | | 10 | | 1.0 | ug/L | 8260C |
| trans-1,2-Dichloroethene | | 0.21 | J | 1.0 | ug/L | 8260C |
| Trichloroethene | | 2.2 | | 1.0 | ug/L | 8260C |
| Vinyl chloride | | 0.21 | J | 1.0 | ug/L | 8260C |
| **460-112643-3** | **TWP-3** | | | | | |
| 1,1,1-Trichloroethane | | 0.37 | J | 1.0 | ug/L | 8260C |
| Chloroform | | 0.28 | J | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | | 0.69 | J | 1.0 | ug/L | 8260C |
| MTBE | | 0.43 | J | 1.0 | ug/L | 8260C |
| Tetrachloroethene | | 12 | | 1.0 | ug/L | 8260C |
| Trichloroethene | | 2.0 | | 1.0 | ug/L | 8260C |
| **460-112643-4** | **TWP-4** | | | | | |
| Chloroform | | 0.79 | J | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | | 3.2 | | 1.0 | ug/L | 8260C |
| Methylene Chloride | | 0.23 | J | 1.0 | ug/L | 8260C |
| Tetrachloroethene | | 230 | | 1.0 | ug/L | 8260C |
| Trichloroethene | | 12 | | 1.0 | ug/L | 8260C |

# EXECUTIVE SUMMARY - Detections

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **460-112643-5** | **TWP-5** | | | | | |
| Benzene | | 14 | | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | | 6.5 | | 1.0 | ug/L | 8260C |
| Ethylbenzene | | 8.4 | | 1.0 | ug/L | 8260C |
| Isopropylbenzene | | 0.73 | J | 1.0 | ug/L | 8260C |
| m&p-Xylene | | 11 | | 1.0 | ug/L | 8260C |
| MTBE | | 0.20 | J | 1.0 | ug/L | 8260C |
| o-Xylene | | 12 | | 1.0 | ug/L | 8260C |
| Tetrachloroethene | | 12 | | 1.0 | ug/L | 8260C |
| Toluene | | 42 | | 1.0 | ug/L | 8260C |
| Trichloroethene | | 3.1 | | 1.0 | ug/L | 8260C |
| Vinyl chloride | | 0.39 | J | 1.0 | ug/L | 8260C |
| **460-112643-6** | **TWP-6** | | | | | |
| 2-Butanone | | 7.8 | | 5.0 | ug/L | 8260C |

# METHOD SUMMARY

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Water** | | | |
| Volatile Organic Compounds by GC/MS | TAL EDI | SW846 8260C | |
| Purge and Trap | TAL EDI | | SW846 5030C |

**Lab References:**

TAL EDI = TestAmerica Edison

**Method References:**

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

# METHOD / ANALYST SUMMARY

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8260C | Nimer, Diaa | DAN |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID:** **TWP-1**

Lab Sample ID: 460-112643-1 Date Sampled: 04/22/2016 1029
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39717.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0626 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0626 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.090 | U | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.55 | J | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 0.26 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 0.22 | J | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |
| Tetrachloroethene | 5.0 | | 0.12 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-1**

Lab Sample ID: 460-112643-1 Date Sampled: 04/22/2016 1029
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39717.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0626 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0626 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 1.4 | | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.060 | U | 0.060 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 70 - 130 |
| Bromofluorobenzene | 95 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID:** **TWP-1**

Lab Sample ID: 460-112643-1 Date Sampled: 04/22/2016 1029
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39717.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0626 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0626 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found: 0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

**Client Sample ID:** **TWP-2**

Lab Sample ID: 460-112643-2 Date Sampled: 04/22/2016 1109
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39718.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0652 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0652 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.66 | J | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.22 | U | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 16 | | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 4.1 | | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 1.1 | | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 3.3 | | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |
| Tetrachloroethene | 10 | | 0.12 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-2**

Lab Sample ID: 460-112643-2 Date Sampled: 04/22/2016 1109
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39718.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0652 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0652 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.21 | J | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 2.2 | | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.21 | J | 0.060 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 70 - 130 |
| Bromofluorobenzene | 94 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 100 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-2**

Lab Sample ID: 460-112643-2 Date Sampled: 04/22/2016 1109
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39718.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0652 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0652 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found: 6**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| 75-28-5 | Isobutane | 0.85 | 14 | J N |
| 78-78-4 | Butane, 2-methyl- | 1.52 | 19 | J N |
| | Unknown alkane | 2.73 | 6.5 | J |
| | Unknown Cycloalkane | 2.85 | 6.3 | J |
| 75-65-0 | 2-Propanol, 2-methyl- | 2.99 | 30 | J N |
| | Unknown Cycloalkane | 4.02 | 6.1 | J |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-3**

Lab Sample ID: 460-112643-3 Date Sampled: 04/22/2016 1304
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39719.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0719 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0719 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.37 | J | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.090 | U | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.28 | J | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 0.69 | J | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 0.43 | J | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |
| Tetrachloroethene | 12 | | 0.12 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-3**

Lab Sample ID: 460-112643-3 Date Sampled: 04/22/2016 1304
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39719.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0719 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0719 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 2.0 | | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.060 | U | 0.060 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 70 - 130 |
| Bromofluorobenzene | 95 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID:** **TWP-3**

Lab Sample ID: 460-112643-3 Date Sampled: 04/22/2016 1304
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39719.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0719 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0719 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found: 0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-4**

Lab Sample ID: 460-112643-4 Date Sampled: 04/22/2016 1310
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39731.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1237 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1237 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.090 | U | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.79 | J | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 3.2 | | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.23 | J | 0.21 | 1.0 |
| MTBE | 0.13 | U | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |
| Tetrachloroethene | 230 | | 0.12 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-4**

Lab Sample ID: 460-112643-4 Date Sampled: 04/22/2016 1310
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39731.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1237 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1237 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 12 | | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.060 | U | 0.060 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 130 |
| Bromofluorobenzene | 93 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 103 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID:** **TWP-4**

Lab Sample ID: 460-112643-4 Date Sampled: 04/22/2016 1310
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39731.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1237 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1237 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found: 0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

**Client Sample ID:** **TWP-5**

Lab Sample ID: 460-112643-5 Date Sampled: 04/22/2016 1354
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39732.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1305 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1305 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 14 | | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.22 | U | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 6.5 | | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 8.4 | | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.73 | J | 0.32 | 1.0 |
| m&p-Xylene | 11 | | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 0.20 | J | 0.13 | 1.0 |
| o-Xylene | 12 | | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |
| Tetrachloroethene | 12 | | 0.12 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-5**

Lab Sample ID: 460-112643-5 Date Sampled: 04/22/2016 1354
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39732.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1305 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1305 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Toluene | 42 | | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 3.1 | | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.39 | J | 0.060 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 70 - 130 |
| Bromofluorobenzene | 92 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID:** **TWP-5**

Lab Sample ID: 460-112643-5 Date Sampled: 04/22/2016 1354
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39732.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1305 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1305 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found: 2**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Unknown alkane | 0.86 | 13 | J |
| | Unknown alkane | 1.53 | 22 | J |

**Client Sample ID:** **TWP-6**

Lab Sample ID: 460-112643-6 Date Sampled: 04/22/2016 1402
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39720.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0745 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 7.8 | | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.090 | U | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.22 | U | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 0.26 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 0.13 | U | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |
| Tetrachloroethene | 0.12 | U | 0.12 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID: TWP-6**

Lab Sample ID: 460-112643-6 Date Sampled: 04/22/2016 1402
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39720.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0745 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 0.22 | U | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.060 | U | 0.060 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 130 |
| Bromofluorobenzene | 98 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Client Sample ID:** **TWP-6**

Lab Sample ID: 460-112643-6 Date Sampled: 04/22/2016 1402
Client Matrix: Water Date Received: 04/22/2016 1520

**8260C Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | J39720.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0745 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0745 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found: 0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

## Surrogate Recovery Report

**8260C Volatile Organic Compounds by GC/MS**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|---|
| 460-112643-1 | TWP-1 | 102 | 110 | 99 | 95 |
| 460-112643-2 | TWP-2 | 100 | 110 | 101 | 94 |
| 460-112643-3 | TWP-3 | 102 | 108 | 100 | 95 |
| 460-112643-4 | TWP-4 | 103 | 113 | 100 | 93 |
| 460-112643-5 | TWP-5 | 99 | 106 | 96 | 92 |
| 460-112643-6 | TWP-6 | 102 | 113 | 100 | 98 |
| MB 460-364590/7 | | 101 | 108 | 96 | 94 |
| MB 460-364733/6 | | 98 | 105 | 100 | 97 |
| LCS 460-364590/3 | | 105 | 110 | 106 | 103 |
| LCS 460-364733/3 | | 102 | 108 | 101 | 97 |
| LCSD 460-364590/4 | | 100 | 110 | 100 | 97 |
| LCSD 460-364733/4 | | 107 | 113 | 107 | 103 |

| Surrogate | Acceptance Limits |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 70-130 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 70-130 |
| TOL = Toluene-d8 (Surr) | 70-130 |
| BFB = Bromofluorobenzene | 70-130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Method Blank - Batch: 460-364590**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 460-364590/7 | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39703.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0014 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0014 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.090 | U | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.22 | U | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 0.26 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 0.13 | U | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Method Blank - Batch: 460-364590**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 460-364590/7 | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39703.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0014 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0014 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 0.12 | U | 0.12 | 1.0 |
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 0.22 | U | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.060 | U | 0.060 | 1.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 108 | 70 - 130 |
| Bromofluorobenzene | 94 | 70 - 130 |
| Dibromofluoromethane (Surr) | 101 | 70 - 130 |
| Toluene-d8 (Surr) | 96 | 70 - 130 |

**Method Blank TICs- Batch: 460-364590**

| Cas Number | Analyte | RT | Est. Result (ug/ | Qual |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Lab Control Sample/**
**Lab Control Sample Duplicate Recovery Report - Batch: 460-364590**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364590/3 | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39699.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/25/2016 2158 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/25/2016 2158 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 460-364590/4 | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39700.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/25/2016 2225 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/25/2016 2225 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 1,1,1-Trichloroethane | 111 | 109 | 70 - 130 | 2 | 20 | | |
| 1,1,2,2-Tetrachloroethane | 101 | 100 | 70 - 130 | 1 | 20 | | |
| 1,1,2-Trichloroethane | 107 | 100 | 70 - 130 | 7 | 20 | | |
| 1,1-Dichloroethane | 109 | 106 | 70 - 130 | 3 | 20 | | |
| 1,1-Dichloroethene | 109 | 103 | 70 - 130 | 5 | 20 | | |
| 1,2,3-Trichlorobenzene | 119 | 111 | 70 - 130 | 7 | 20 | | |
| 1,2,4-Trichlorobenzene | 108 | 109 | 70 - 130 | 1 | 20 | | |
| 1,2-Dibromo-3-Chloropropane | 105 | 101 | 40 - 160 | 4 | 20 | | |
| 1,2-Dibromoethane | 107 | 101 | 70 - 130 | 6 | 20 | | |
| 1,2-Dichlorobenzene | 109 | 106 | 70 - 130 | 3 | 20 | | |
| 1,2-Dichloroethane | 115 | 108 | 70 - 130 | 7 | 20 | | |
| 1,2-Dichloropropane | 109 | 104 | 70 - 130 | 5 | 20 | | |
| 1,3-Dichlorobenzene | 106 | 105 | 70 - 130 | 1 | 20 | | |
| 1,4-Dichlorobenzene | 103 | 105 | 70 - 130 | 2 | 20 | | |
| 1,4-Dioxane | 120 | 108 | 40 - 160 | 11 | 20 | | |
| 2-Butanone | 91 | 91 | 40 - 160 | 0 | 20 | | |
| 2-Hexanone | 98 | 91 | 40 - 160 | 8 | 20 | | |
| 4-Methyl-2-pentanone | 116 | 106 | 40 - 160 | 9 | 20 | | |
| Acetone | 101 | 93 | 40 - 160 | 8 | 20 | | |
| Benzene | 115 | 110 | 70 - 130 | 4 | 20 | | |
| Bromochloromethane | 105 | 102 | 70 - 130 | 3 | 20 | | |
| Bromodichloromethane | 110 | 106 | 70 - 130 | 4 | 20 | | |
| Bromoform | 98 | 97 | 70 - 130 | 1 | 20 | | |
| Bromomethane | 93 | 99 | 40 - 160 | 6 | 20 | | |
| Carbon disulfide | 115 | 109 | 40 - 160 | 6 | 20 | | |
| Carbon tetrachloride | 118 | 114 | 70 - 130 | 3 | 20 | | |
| Chlorobenzene | 112 | 105 | 70 - 130 | 6 | 20 | | |
| Chloroethane | 103 | 105 | 40 - 160 | 2 | 20 | | |
| Chloroform | 113 | 109 | 70 - 130 | 4 | 20 | | |
| Chloromethane | 114 | 108 | 40 - 160 | 5 | 20 | | |
| cis-1,2-Dichloroethene | 99 | 95 | 70 - 130 | 5 | 20 | | |
| cis-1,3-Dichloropropene | 109 | 108 | 70 - 130 | 1 | 20 | | |
| Cyclohexane | 128 | 124 | 70 - 130 | 3 | 20 | | |
| Dibromochloromethane | 107 | 103 | 70 - 130 | 3 | 20 | | |
| Dichlorodifluoromethane | 124 | 128 | 40 - 160 | 3 | 20 | | |
| Ethylbenzene | 103 | 96 | 70 - 130 | 7 | 20 | | |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Lab Control Sample/**
**Lab Control Sample Duplicate Recovery Report - Batch: 460-364590**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364590/3 | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39699.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/25/2016 2158 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/25/2016 2158 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 460-364590/4 | Analysis Batch: | 460-364590 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39700.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/25/2016 2225 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/25/2016 2225 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Freon TF | 124 | 124 | 70 - 130 | 0 | 20 | | |
| Isopropylbenzene | 121 | 113 | 70 - 130 | 7 | 20 | | |
| m&p-Xylene | 109 | 102 | 70 - 130 | 7 | 20 | | |
| Methyl acetate | 130 | 126 | 70 - 130 | 3 | 20 | | |
| Methylcyclohexane | 129 | 127 | 70 - 130 | 1 | 20 | | |
| Methylene Chloride | 105 | 101 | 70 - 130 | 4 | 20 | | |
| MTBE | 114 | 110 | 70 - 130 | 3 | 20 | | |
| o-Xylene | 108 | 101 | 70 - 130 | 6 | 20 | | |
| Styrene | 112 | 106 | 70 - 130 | 6 | 20 | | |
| Tetrachloroethene | 105 | 100 | 70 - 130 | 5 | 20 | | |
| Toluene | 110 | 107 | 70 - 130 | 3 | 20 | | |
| trans-1,2-Dichloroethene | 103 | 99 | 70 - 130 | 5 | 20 | | |
| trans-1,3-Dichloropropene | 109 | 107 | 70 - 130 | 2 | 20 | | |
| Trichloroethene | 111 | 105 | 70 - 130 | 6 | 20 | | |
| Trichlorofluoromethane | 123 | 116 | 40 - 160 | 6 | 20 | | |
| Vinyl chloride | 116 | 112 | 70 - 130 | 4 | 20 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 110 | 110 | 70 - 130 |
| Bromofluorobenzene | 103 | 97 | 70 - 130 |
| Dibromofluoromethane (Surr) | 105 | 100 | 70 - 130 |
| Toluene-d8 (Surr) | 106 | 100 | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Laboratory Control/**
**Laboratory Duplicate Data Report - Batch: 460-364590**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364590/3 | Units: ug/L | LCSD Lab Sample ID: | LCSD 460-364590/4 |
| Client Matrix: | Water | | Client Matrix: | Water |
| Dilution: | 1.0 | | Dilution: | 1.0 |
| Analysis Date: | 04/25/2016 2158 | | Analysis Date: | 04/25/2016 2225 |
| Prep Date: | 04/25/2016 2158 | | Prep Date: | 04/25/2016 2225 |
| Leach Date: | N/A | | Leach Date: | N/A |

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | LCSD Result/Qual |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 20.0 | 22.2 | 21.7 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.0 | 20.2 | 20.1 |
| 1,1,2-Trichloroethane | 20.0 | 20.0 | 21.5 | 20.0 |
| 1,1-Dichloroethane | 20.0 | 20.0 | 21.8 | 21.2 |
| 1,1-Dichloroethene | 20.0 | 20.0 | 21.8 | 20.7 |
| 1,2,3-Trichlorobenzene | 20.0 | 20.0 | 23.7 | 22.2 |
| 1,2,4-Trichlorobenzene | 20.0 | 20.0 | 21.6 | 21.8 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 20.0 | 21.0 | 20.2 |
| 1,2-Dibromoethane | 20.0 | 20.0 | 21.3 | 20.1 |
| 1,2-Dichlorobenzene | 20.0 | 20.0 | 21.9 | 21.2 |
| 1,2-Dichloroethane | 20.0 | 20.0 | 23.0 | 21.5 |
| 1,2-Dichloropropane | 20.0 | 20.0 | 21.7 | 20.8 |
| 1,3-Dichlorobenzene | 20.0 | 20.0 | 21.2 | 21.0 |
| 1,4-Dichlorobenzene | 20.0 | 20.0 | 20.7 | 21.0 |
| 1,4-Dioxane | 400 | 400 | 480 | 432 |
| 2-Butanone | 100 | 100 | 91.4 | 91.2 |
| 2-Hexanone | 100 | 100 | 98.4 | 91.0 |
| 4-Methyl-2-pentanone | 100 | 100 | 116 | 106 |
| Acetone | 100 | 100 | 101 | 93.5 |
| Benzene | 20.0 | 20.0 | 22.9 | 22.0 |
| Bromochloromethane | 20.0 | 20.0 | 21.1 | 20.3 |
| Bromodichloromethane | 20.0 | 20.0 | 22.1 | 21.2 |
| Bromoform | 20.0 | 20.0 | 19.6 | 19.4 |
| Bromomethane | 20.0 | 20.0 | 18.6 | 19.8 |
| Carbon disulfide | 20.0 | 20.0 | 23.1 | 21.8 |
| Carbon tetrachloride | 20.0 | 20.0 | 23.7 | 22.9 |
| Chlorobenzene | 20.0 | 20.0 | 22.5 | 21.1 |
| Chloroethane | 20.0 | 20.0 | 20.7 | 21.0 |
| Chloroform | 20.0 | 20.0 | 22.6 | 21.8 |
| Chloromethane | 20.0 | 20.0 | 22.7 | 21.7 |
| cis-1,2-Dichloroethene | 20.0 | 20.0 | 19.9 | 18.9 |
| cis-1,3-Dichloropropene | 20.0 | 20.0 | 21.8 | 21.6 |
| Cyclohexane | 20.0 | 20.0 | 25.5 | 24.7 |
| Dibromochloromethane | 20.0 | 20.0 | 21.4 | 20.6 |
| Dichlorodifluoromethane | 20.0 | 20.0 | 24.9 | 25.5 |
| Ethylbenzene | 20.0 | 20.0 | 20.6 | 19.2 |
| Freon TF | 20.0 | 20.0 | 24.8 | 24.8 |
| Isopropylbenzene | 20.0 | 20.0 | 24.2 | 22.6 |
| m&p-Xylene | 20.0 | 20.0 | 21.7 | 20.4 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Laboratory Control/**
**Laboratory Duplicate Data Report - Batch: 460-364590**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364590/3 | Units: ug/L | LCSD Lab Sample ID: | LCSD 460-364590/4 |
| Client Matrix: | Water | | Client Matrix: | Water |
| Dilution: | 1.0 | | Dilution: | 1.0 |
| Analysis Date: | 04/25/2016 2158 | | Analysis Date: | 04/25/2016 2225 |
| Prep Date: | 04/25/2016 2158 | | Prep Date: | 04/25/2016 2225 |
| Leach Date: | N/A | | Leach Date: | N/A |

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | LCSD Result/Qual |
|---|---|---|---|---|
| Methyl acetate | 100 | 100 | 130 | 126 |
| Methylcyclohexane | 20.0 | 20.0 | 25.7 | 25.4 |
| Methylene Chloride | 20.0 | 20.0 | 21.1 | 20.3 |
| MTBE | 20.0 | 20.0 | 22.7 | 22.1 |
| o-Xylene | 20.0 | 20.0 | 21.6 | 20.2 |
| Styrene | 20.0 | 20.0 | 22.4 | 21.2 |
| Tetrachloroethene | 20.0 | 20.0 | 21.1 | 20.1 |
| Toluene | 20.0 | 20.0 | 21.9 | 21.4 |
| trans-1,2-Dichloroethene | 20.0 | 20.0 | 20.6 | 19.7 |
| trans-1,3-Dichloropropene | 20.0 | 20.0 | 21.8 | 21.4 |
| Trichloroethene | 20.0 | 20.0 | 22.2 | 21.0 |
| Trichlorofluoromethane | 20.0 | 20.0 | 24.6 | 23.1 |
| Vinyl chloride | 20.0 | 20.0 | 23.3 | 22.3 |

**Method Blank - Batch: 460-364733**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 460-364733/6 | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39728.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1115 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1115 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.28 | U | 0.28 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.19 | U | 0.19 | 1.0 |
| 1,1,2-Trichloroethane | 0.080 | U | 0.080 | 1.0 |
| 1,1-Dichloroethane | 0.24 | U | 0.24 | 1.0 |
| 1,1-Dichloroethene | 0.34 | U | 0.34 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.35 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 0.27 | U | 0.27 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 0.23 | U | 0.23 | 1.0 |
| 1,2-Dibromoethane | 0.19 | U | 0.19 | 1.0 |
| 1,2-Dichlorobenzene | 0.22 | U | 0.22 | 1.0 |
| 1,2-Dichloroethane | 0.25 | U | 0.25 | 1.0 |
| 1,2-Dichloropropane | 0.18 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dichlorobenzene | 0.33 | U | 0.33 | 1.0 |
| 1,4-Dioxane | 8.7 | U | 8.7 | 50 |
| 2-Butanone | 2.2 | U | 2.2 | 5.0 |
| 2-Hexanone | 0.72 | U | 0.72 | 5.0 |
| 4-Methyl-2-pentanone | 0.63 | U | 0.63 | 5.0 |
| Acetone | 1.1 | U | 1.1 | 5.0 |
| Benzene | 0.090 | U | 0.090 | 1.0 |
| Bromochloromethane | 0.30 | U | 0.30 | 1.0 |
| Bromodichloromethane | 0.15 | U | 0.15 | 1.0 |
| Bromoform | 0.18 | U | 0.18 | 1.0 |
| Bromomethane | 0.18 | U | 0.18 | 1.0 |
| Carbon disulfide | 0.22 | U | 0.22 | 1.0 |
| Carbon tetrachloride | 0.33 | U | 0.33 | 1.0 |
| Chlorobenzene | 0.24 | U | 0.24 | 1.0 |
| Chloroethane | 0.37 | U | 0.37 | 1.0 |
| Chloroform | 0.22 | U | 0.22 | 1.0 |
| Chloromethane | 0.22 | U | 0.22 | 1.0 |
| cis-1,2-Dichloroethene | 0.26 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.0 |
| Cyclohexane | 0.26 | U | 0.26 | 1.0 |
| Dibromochloromethane | 0.22 | U | 0.22 | 1.0 |
| Dichlorodifluoromethane | 0.14 | U | 0.14 | 1.0 |
| Ethylbenzene | 0.30 | U | 0.30 | 1.0 |
| Freon TF | 0.34 | U | 0.34 | 1.0 |
| Isopropylbenzene | 0.32 | U | 0.32 | 1.0 |
| m&p-Xylene | 0.28 | U | 0.28 | 1.0 |
| Methyl acetate | 0.58 | U | 0.58 | 5.0 |
| Methylcyclohexane | 0.22 | U | 0.22 | 1.0 |
| Methylene Chloride | 0.21 | U | 0.21 | 1.0 |
| MTBE | 0.13 | U | 0.13 | 1.0 |
| o-Xylene | 0.32 | U | 0.32 | 1.0 |
| Styrene | 0.17 | U | 0.17 | 1.0 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Method Blank - Batch: 460-364733**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 460-364733/6 | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39728.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1115 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1115 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 0.12 | U | 0.12 | 1.0 |
| Toluene | 0.25 | U | 0.25 | 1.0 |
| trans-1,2-Dichloroethene | 0.18 | U | 0.18 | 1.0 |
| trans-1,3-Dichloropropene | 0.19 | U | 0.19 | 1.0 |
| Trichloroethene | 0.22 | U | 0.22 | 1.0 |
| Trichlorofluoromethane | 0.15 | U | 0.15 | 1.0 |
| Vinyl chloride | 0.060 | U | 0.060 | 1.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | 70 - 130 |
| Bromofluorobenzene | 97 | 70 - 130 |
| Dibromofluoromethane (Surr) | 98 | 70 - 130 |
| Toluene-d8 (Surr) | 100 | 70 - 130 |

**Method Blank TICs- Batch: 460-364733**

| Cas Number | Analyte | RT | Est. Result (ug/ | Qual |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Lab Control Sample/**
**Lab Control Sample Duplicate Recovery Report - Batch: 460-364733**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364733/3 | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39725.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0954 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0954 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 460-364733/4 | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39726.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1021 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1021 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 1,1,1-Trichloroethane | 105 | 114 | 70 - 130 | 8 | 20 | | |
| 1,1,2,2-Tetrachloroethane | 100 | 103 | 70 - 130 | 3 | 20 | | |
| 1,1,2-Trichloroethane | 98 | 99 | 70 - 130 | 2 | 20 | | |
| 1,1-Dichloroethane | 98 | 113 | 70 - 130 | 14 | 20 | | |
| 1,1-Dichloroethene | 100 | 110 | 70 - 130 | 10 | 20 | | |
| 1,2,3-Trichlorobenzene | 103 | 120 | 70 - 130 | 15 | 20 | | |
| 1,2,4-Trichlorobenzene | 103 | 110 | 70 - 130 | 6 | 20 | | |
| 1,2-Dibromo-3-Chloropropane | 97 | 106 | 40 - 160 | 9 | 20 | | |
| 1,2-Dibromoethane | 92 | 100 | 70 - 130 | 9 | 20 | | |
| 1,2-Dichlorobenzene | 99 | 108 | 70 - 130 | 8 | 20 | | |
| 1,2-Dichloroethane | 104 | 108 | 70 - 130 | 3 | 20 | | |
| 1,2-Dichloropropane | 102 | 110 | 70 - 130 | 8 | 20 | | |
| 1,3-Dichlorobenzene | 99 | 108 | 70 - 130 | 9 | 20 | | |
| 1,4-Dichlorobenzene | 100 | 107 | 70 - 130 | 7 | 20 | | |
| 1,4-Dioxane | 116 | 105 | 40 - 160 | 10 | 20 | | |
| 2-Butanone | 86 | 95 | 40 - 160 | 10 | 20 | | |
| 2-Hexanone | 86 | 98 | 40 - 160 | 13 | 20 | | |
| 4-Methyl-2-pentanone | 101 | 115 | 40 - 160 | 13 | 20 | | |
| Acetone | 87 | 102 | 40 - 160 | 16 | 20 | | |
| Benzene | 104 | 112 | 70 - 130 | 8 | 20 | | |
| Bromochloromethane | 97 | 102 | 70 - 130 | 5 | 20 | | |
| Bromodichloromethane | 103 | 109 | 70 - 130 | 6 | 20 | | |
| Bromoform | 90 | 96 | 70 - 130 | 6 | 20 | | |
| Bromomethane | 98 | 105 | 40 - 160 | 7 | 20 | | |
| Carbon disulfide | 105 | 116 | 40 - 160 | 10 | 20 | | |
| Carbon tetrachloride | 107 | 113 | 70 - 130 | 5 | 20 | | |
| Chlorobenzene | 98 | 108 | 70 - 130 | 9 | 20 | | |
| Chloroethane | 95 | 104 | 40 - 160 | 9 | 20 | | |
| Chloroform | 103 | 112 | 70 - 130 | 8 | 20 | | |
| Chloromethane | 107 | 116 | 40 - 160 | 9 | 20 | | |
| cis-1,2-Dichloroethene | 94 | 102 | 70 - 130 | 9 | 20 | | |
| cis-1,3-Dichloropropene | 101 | 111 | 70 - 130 | 10 | 20 | | |
| Cyclohexane | 106 | 115 | 70 - 130 | 8 | 20 | | |
| Dibromochloromethane | 101 | 106 | 70 - 130 | 4 | 20 | | |
| Dichlorodifluoromethane | 81 | 91 | 40 - 160 | 12 | 20 | | |
| Ethylbenzene | 93 | 105 | 70 - 130 | 12 | 20 | | |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Lab Control Sample/**
**Lab Control Sample Duplicate Recovery Report - Batch: 460-364733**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364733/3 | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39725.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 0954 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 0954 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 460-364733/4 | Analysis Batch: | 460-364733 | Instrument ID: | CVOAMS8 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | J39726.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 04/26/2016 1021 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 04/26/2016 1021 | | | | 5 mL |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Freon TF | 106 | 114 | 70 - 130 | 7 | 20 | | |
| Isopropylbenzene | 110 | 117 | 70 - 130 | 7 | 20 | | |
| m&p-Xylene | 99 | 107 | 70 - 130 | 7 | 20 | | |
| Methyl acetate | 120 | 129 | 70 - 130 | 7 | 20 | | |
| Methylcyclohexane | 101 | 103 | 70 - 130 | 3 | 20 | | |
| Methylene Chloride | 101 | 107 | 70 - 130 | 7 | 20 | | |
| MTBE | 107 | 113 | 70 - 130 | 6 | 20 | | |
| o-Xylene | 94 | 106 | 70 - 130 | 11 | 20 | | |
| Styrene | 100 | 110 | 70 - 130 | 10 | 20 | | |
| Tetrachloroethene | 96 | 102 | 70 - 130 | 6 | 20 | | |
| Toluene | 101 | 110 | 70 - 130 | 9 | 20 | | |
| trans-1,2-Dichloroethene | 101 | 107 | 70 - 130 | 6 | 20 | | |
| trans-1,3-Dichloropropene | 102 | 109 | 70 - 130 | 6 | 20 | | |
| Trichloroethene | 99 | 108 | 70 - 130 | 9 | 20 | | |
| Trichlorofluoromethane | 104 | 116 | 40 - 160 | 11 | 20 | | |
| Vinyl chloride | 104 | 110 | 70 - 130 | 5 | 20 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 108 | 113 | 70 - 130 |
| Bromofluorobenzene | 97 | 103 | 70 - 130 |
| Dibromofluoromethane (Surr) | 102 | 107 | 70 - 130 |
| Toluene-d8 (Surr) | 101 | 107 | 70 - 130 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Laboratory Control/**
**Laboratory Duplicate Data Report - Batch: 460-364733**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364733/3 | Units: ug/L | LCSD Lab Sample ID: | LCSD 460-364733/4 |
| Client Matrix: | Water | | Client Matrix: | Water |
| Dilution: | 1.0 | | Dilution: | 1.0 |
| Analysis Date: | 04/26/2016 0954 | | Analysis Date: | 04/26/2016 1021 |
| Prep Date: | 04/26/2016 0954 | | Prep Date: | 04/26/2016 1021 |
| Leach Date: | N/A | | Leach Date: | N/A |

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | LCSD Result/Qual |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 20.0 | 21.0 | 22.7 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.0 | 20.0 | 20.6 |
| 1,1,2-Trichloroethane | 20.0 | 20.0 | 19.6 | 19.9 |
| 1,1-Dichloroethane | 20.0 | 20.0 | 19.5 | 22.6 |
| 1,1-Dichloroethene | 20.0 | 20.0 | 20.0 | 22.0 |
| 1,2,3-Trichlorobenzene | 20.0 | 20.0 | 20.5 | 23.9 |
| 1,2,4-Trichlorobenzene | 20.0 | 20.0 | 20.7 | 22.0 |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 20.0 | 19.4 | 21.3 |
| 1,2-Dibromoethane | 20.0 | 20.0 | 18.4 | 20.1 |
| 1,2-Dichlorobenzene | 20.0 | 20.0 | 19.9 | 21.6 |
| 1,2-Dichloroethane | 20.0 | 20.0 | 20.8 | 21.5 |
| 1,2-Dichloropropane | 20.0 | 20.0 | 20.3 | 21.9 |
| 1,3-Dichlorobenzene | 20.0 | 20.0 | 19.9 | 21.7 |
| 1,4-Dichlorobenzene | 20.0 | 20.0 | 20.0 | 21.4 |
| 1,4-Dioxane | 400 | 400 | 465 | 421 |
| 2-Butanone | 100 | 100 | 86.2 | 95.5 |
| 2-Hexanone | 100 | 100 | 86.4 | 98.0 |
| 4-Methyl-2-pentanone | 100 | 100 | 101 | 115 |
| Acetone | 100 | 100 | 87.3 | 102 |
| Benzene | 20.0 | 20.0 | 20.8 | 22.5 |
| Bromochloromethane | 20.0 | 20.0 | 19.4 | 20.5 |
| Bromodichloromethane | 20.0 | 20.0 | 20.6 | 21.8 |
| Bromoform | 20.0 | 20.0 | 18.0 | 19.2 |
| Bromomethane | 20.0 | 20.0 | 19.6 | 21.0 |
| Carbon disulfide | 20.0 | 20.0 | 21.1 | 23.2 |
| Carbon tetrachloride | 20.0 | 20.0 | 21.5 | 22.6 |
| Chlorobenzene | 20.0 | 20.0 | 19.6 | 21.6 |
| Chloroethane | 20.0 | 20.0 | 19.0 | 20.8 |
| Chloroform | 20.0 | 20.0 | 20.7 | 22.4 |
| Chloromethane | 20.0 | 20.0 | 21.3 | 23.2 |
| cis-1,2-Dichloroethene | 20.0 | 20.0 | 18.8 | 20.5 |
| cis-1,3-Dichloropropene | 20.0 | 20.0 | 20.2 | 22.2 |
| Cyclohexane | 20.0 | 20.0 | 21.2 | 23.0 |
| Dibromochloromethane | 20.0 | 20.0 | 20.3 | 21.1 |
| Dichlorodifluoromethane | 20.0 | 20.0 | 16.2 | 18.3 |
| Ethylbenzene | 20.0 | 20.0 | 18.6 | 21.0 |
| Freon TF | 20.0 | 20.0 | 21.2 | 22.7 |
| Isopropylbenzene | 20.0 | 20.0 | 21.9 | 23.5 |
| m&p-Xylene | 20.0 | 20.0 | 19.8 | 21.3 |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

**Laboratory Control/**
**Laboratory Duplicate Data Report - Batch: 460-364733**

**Method: 8260C**
**Preparation: 5030C**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 460-364733/3 | Units: ug/L | LCSD Lab Sample ID: | LCSD 460-364733/4 |
| Client Matrix: | Water | | Client Matrix: | Water |
| Dilution: | 1.0 | | Dilution: | 1.0 |
| Analysis Date: | 04/26/2016 0954 | | Analysis Date: | 04/26/2016 1021 |
| Prep Date: | 04/26/2016 0954 | | Prep Date: | 04/26/2016 1021 |
| Leach Date: | N/A | | Leach Date: | N/A |

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | LCSD Result/Qual |
|---|---|---|---|---|
| Methyl acetate | 100 | 100 | 120 | 129 |
| Methylcyclohexane | 20.0 | 20.0 | 20.1 | 20.7 |
| Methylene Chloride | 20.0 | 20.0 | 20.1 | 21.5 |
| MTBE | 20.0 | 20.0 | 21.4 | 22.6 |
| o-Xylene | 20.0 | 20.0 | 18.9 | 21.1 |
| Styrene | 20.0 | 20.0 | 20.0 | 22.1 |
| Tetrachloroethene | 20.0 | 20.0 | 19.1 | 20.4 |
| Toluene | 20.0 | 20.0 | 20.2 | 22.0 |
| trans-1,2-Dichloroethene | 20.0 | 20.0 | 20.1 | 21.4 |
| trans-1,3-Dichloropropene | 20.0 | 20.0 | 20.5 | 21.8 |
| Trichloroethene | 20.0 | 20.0 | 19.9 | 21.7 |
| Trichlorofluoromethane | 20.0 | 20.0 | 20.7 | 23.1 |
| Vinyl chloride | 20.0 | 20.0 | 20.9 | 22.0 |

# DATA REPORTING QUALIFIERS

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | J | Indicates an Estimated Value for TICs |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | N | This flag indicates the presumptive evidence of a compound. |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Analysis Batch:460-364590** | | | | | |
| LCS 460-364590/3 | Lab Control Sample | T | Water | 8260C | |
| LCSD 460-364590/4 | Lab Control Sample Duplicate | T | Water | 8260C | |
| MB 460-364590/7 | Method Blank | T | Water | 8260C | |
| 460-112643-1 | TWP-1 | T | Water | 8260C | |
| 460-112643-2 | TWP-2 | T | Water | 8260C | |
| 460-112643-3 | TWP-3 | T | Water | 8260C | |
| 460-112643-6 | TWP-6 | T | Water | 8260C | |
| **Analysis Batch:460-364733** | | | | | |
| LCS 460-364733/3 | Lab Control Sample | T | Water | 8260C | |
| LCSD 460-364733/4 | Lab Control Sample Duplicate | T | Water | 8260C | |
| MB 460-364733/6 | Method Blank | T | Water | 8260C | |
| 460-112643-4 | TWP-4 | T | Water | 8260C | |
| 460-112643-5 | TWP-5 | T | Water | 8260C | |

**Report Basis**
T = Total

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

## Laboratory Chronicle

**Lab ID: 460-112643-1** **Client ID: TWP-1**

Sample Date/Time: 04/22/2016 10:29 Received Date/Time: 04/22/2016 15:20

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | 460-112643-B-1 | | 460-364590 | | 04/26/2016 06:26 | 1 | TAL EDI | DAN |
| A:8260C | 460-112643-B-1 | | 460-364590 | | 04/26/2016 06:26 | 1 | TAL EDI | DAN |

**Lab ID: 460-112643-2** **Client ID: TWP-2**

Sample Date/Time: 04/22/2016 11:09 Received Date/Time: 04/22/2016 15:20

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | 460-112643-B-2 | | 460-364590 | | 04/26/2016 06:52 | 1 | TAL EDI | DAN |
| A:8260C | 460-112643-B-2 | | 460-364590 | | 04/26/2016 06:52 | 1 | TAL EDI | DAN |

**Lab ID: 460-112643-3** **Client ID: TWP-3**

Sample Date/Time: 04/22/2016 13:04 Received Date/Time: 04/22/2016 15:20

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | 460-112643-B-3 | | 460-364590 | | 04/26/2016 07:19 | 1 | TAL EDI | DAN |
| A:8260C | 460-112643-B-3 | | 460-364590 | | 04/26/2016 07:19 | 1 | TAL EDI | DAN |

**Lab ID: 460-112643-4** **Client ID: TWP-4**

Sample Date/Time: 04/22/2016 13:10 Received Date/Time: 04/22/2016 15:20

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | 460-112643-C-4 | | 460-364733 | | 04/26/2016 12:37 | 1 | TAL EDI | DAN |
| A:8260C | 460-112643-C-4 | | 460-364733 | | 04/26/2016 12:37 | 1 | TAL EDI | DAN |

**Lab ID: 460-112643-5** **Client ID: TWP-5**

Sample Date/Time: 04/22/2016 13:54 Received Date/Time: 04/22/2016 15:20

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | 460-112643-C-5 | | 460-364733 | | 04/26/2016 13:05 | 1 | TAL EDI | DAN |
| A:8260C | 460-112643-C-5 | | 460-364733 | | 04/26/2016 13:05 | 1 | TAL EDI | DAN |

**Lab ID: 460-112643-6** **Client ID: TWP-6**

Sample Date/Time: 04/22/2016 14:02 Received Date/Time: 04/22/2016 15:20

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | 460-112643-B-6 | | 460-364590 | | 04/26/2016 07:45 | 1 | TAL EDI | DAN |
| A:8260C | 460-112643-B-6 | | 460-364590 | | 04/26/2016 07:45 | 1 | TAL EDI | DAN |

Client: Brinkerhoff Environmental Services, Inc. Job Number: 460-112643-1

## Laboratory Chronicle

**Lab ID: MB** **Client ID: N/A**

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

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | MB 460-364590/7 | | 460-364590 | | 04/26/2016 00:14 | 1 | TAL EDI | DAN |
| A:8260C | MB 460-364590/7 | | 460-364590 | | 04/26/2016 00:14 | 1 | TAL EDI | DAN |
| P:5030C | MB 460-364733/6 | | 460-364733 | | 04/26/2016 11:15 | 1 | TAL EDI | DAN |
| A:8260C | MB 460-364733/6 | | 460-364733 | | 04/26/2016 11:15 | 1 | TAL EDI | DAN |

**Lab ID: LCS** **Client ID: N/A**

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

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | LCS 460-364590/3 | | 460-364590 | | 04/25/2016 21:58 | 1 | TAL EDI | DAN |
| A:8260C | LCS 460-364590/3 | | 460-364590 | | 04/25/2016 21:58 | 1 | TAL EDI | DAN |
| P:5030C | LCS 460-364733/3 | | 460-364733 | | 04/26/2016 09:54 | 1 | TAL EDI | DAN |
| A:8260C | LCS 460-364733/3 | | 460-364733 | | 04/26/2016 09:54 | 1 | TAL EDI | DAN |

**Lab ID: LCSD** **Client ID: N/A**

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

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030C | LCSD 460-364590/4 | | 460-364590 | | 04/25/2016 22:25 | 1 | TAL EDI | DAN |
| A:8260C | LCSD 460-364590/4 | | 460-364590 | | 04/25/2016 22:25 | 1 | TAL EDI | DAN |
| P:5030C | LCSD 460-364733/4 | | 460-364733 | | 04/26/2016 10:21 | 1 | TAL EDI | DAN |
| A:8260C | LCSD 460-364733/4 | | 460-364733 | | 04/26/2016 10:21 | 1 | TAL EDI | DAN |

**Lab References:**
TAL EDI = TestAmerica Edison

# 8260C_DKQP

## Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Matrix: Water  Level: Low

GC Column (1): Rtx-624  ID: 0.25(mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TWP-1 | 460-112643-1 | 102 | 110 | 99 | 95 |
| TWP-2 | 460-112643-2 | 100 | 110 | 101 | 94 |
| TWP-3 | 460-112643-3 | 102 | 108 | 100 | 95 |
| TWP-4 | 460-112643-4 | 103 | 113 | 100 | 93 |
| TWP-5 | 460-112643-5 | 99 | 106 | 96 | 92 |
| TWP-6 | 460-112643-6 | 102 | 113 | 100 | 98 |
| | MB 460-364590/7 | 101 | 108 | 96 | 94 |
| | MB 460-364733/6 | 98 | 105 | 100 | 97 |
| | LCS 460-364590/3 | 105 | 110 | 106 | 103 |
| | LCS 460-364733/3 | 102 | 108 | 101 | 97 |
| | LCSD 460-364590/4 | 100 | 110 | 100 | 97 |
| | LCSD 460-364733/4 | 107 | 113 | 107 | 103 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 70-130 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 70-130 |
| TOL = Toluene-d8 (Surr) | 70-130 |
| BFB = Bromofluorobenzene | 70-130 |

# Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39699.D

Lab ID: LCS 460-364590/3 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 22.2 | 111 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.2 | 101 | 70-130 | |
| 1,1,2-Trichloroethane | 20.0 | 21.5 | 107 | 70-130 | |
| 1,1-Dichloroethane | 20.0 | 21.8 | 109 | 70-130 | |
| 1,1-Dichloroethene | 20.0 | 21.8 | 109 | 70-130 | |
| 1,2,3-Trichlorobenzene | 20.0 | 23.7 | 119 | 70-130 | |
| 1,2,4-Trichlorobenzene | 20.0 | 21.6 | 108 | 70-130 | |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 21.0 | 105 | 40-160 | |
| 1,2-Dibromoethane | 20.0 | 21.3 | 107 | 70-130 | |
| 1,2-Dichlorobenzene | 20.0 | 21.9 | 109 | 70-130 | |
| 1,2-Dichloroethane | 20.0 | 23.0 | 115 | 70-130 | |
| 1,2-Dichloropropane | 20.0 | 21.7 | 109 | 70-130 | |
| 1,3-Dichlorobenzene | 20.0 | 21.2 | 106 | 70-130 | |
| 1,4-Dichlorobenzene | 20.0 | 20.7 | 103 | 70-130 | |
| 1,4-Dioxane | 400 | 480 | 120 | 40-160 | |
| 2-Butanone | 100 | 91.4 | 91 | 40-160 | |
| 2-Hexanone | 100 | 98.4 | 98 | 40-160 | |
| 4-Methyl-2-pentanone | 100 | 116 | 116 | 40-160 | |
| Acetone | 100 | 101 | 101 | 40-160 | |
| Benzene | 20.0 | 22.9 | 115 | 70-130 | |
| Bromochloromethane | 20.0 | 21.1 | 105 | 70-130 | |
| Bromodichloromethane | 20.0 | 22.1 | 110 | 70-130 | |
| Bromoform | 20.0 | 19.6 | 98 | 70-130 | |
| Bromomethane | 20.0 | 18.6 | 93 | 40-160 | |
| Carbon disulfide | 20.0 | 23.1 | 115 | 40-160 | |
| Carbon tetrachloride | 20.0 | 23.7 | 118 | 70-130 | |
| Chlorobenzene | 20.0 | 22.5 | 112 | 70-130 | |
| Chloroethane | 20.0 | 20.7 | 103 | 40-160 | |
| Chloroform | 20.0 | 22.6 | 113 | 70-130 | |
| Chloromethane | 20.0 | 22.7 | 114 | 40-160 | |
| cis-1,2-Dichloroethene | 20.0 | 19.9 | 99 | 70-130 | |
| cis-1,3-Dichloropropene | 20.0 | 21.8 | 109 | 70-130 | |
| Cyclohexane | 20.0 | 25.5 | 128 | 70-130 | |
| Dibromochloromethane | 20.0 | 21.4 | 107 | 70-130 | |
| Dichlorodifluoromethane | 20.0 | 24.9 | 124 | 40-160 | |
| Ethylbenzene | 20.0 | 20.6 | 103 | 70-130 | |
| Freon TF | 20.0 | 24.8 | 124 | 70-130 | |
| Isopropylbenzene | 20.0 | 24.2 | 121 | 70-130 | |
| m&p-Xylene | 20.0 | 21.7 | 109 | 70-130 | |
| Methyl acetate | 100 | 130 | 130 | 70-130 | |
| Methylcyclohexane | 20.0 | 25.7 | 129 | 70-130 | |
| Methylene Chloride | 20.0 | 21.1 | 105 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39699.D

Lab ID: LCS 460-364590/3 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| MTBE | 20.0 | 22.7 | 114 | 70-130 | |
| o-Xylene | 20.0 | 21.6 | 108 | 70-130 | |
| Styrene | 20.0 | 22.4 | 112 | 70-130 | |
| Tetrachloroethene | 20.0 | 21.1 | 105 | 70-130 | |
| Toluene | 20.0 | 21.9 | 110 | 70-130 | |
| trans-1,2-Dichloroethene | 20.0 | 20.6 | 103 | 70-130 | |
| trans-1,3-Dichloropropene | 20.0 | 21.8 | 109 | 70-130 | |
| Trichloroethene | 20.0 | 22.2 | 111 | 70-130 | |
| Trichlorofluoromethane | 20.0 | 24.6 | 123 | 40-160 | |
| Vinyl chloride | 20.0 | 23.3 | 116 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39725.D

Lab ID: LCS 460-364733/3 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 21.0 | 105 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.0 | 100 | 70-130 | |
| 1,1,2-Trichloroethane | 20.0 | 19.6 | 98 | 70-130 | |
| 1,1-Dichloroethane | 20.0 | 19.5 | 98 | 70-130 | |
| 1,1-Dichloroethene | 20.0 | 20.0 | 100 | 70-130 | |
| 1,2,3-Trichlorobenzene | 20.0 | 20.5 | 103 | 70-130 | |
| 1,2,4-Trichlorobenzene | 20.0 | 20.7 | 103 | 70-130 | |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 19.4 | 97 | 40-160 | |
| 1,2-Dibromoethane | 20.0 | 18.4 | 92 | 70-130 | |
| 1,2-Dichlorobenzene | 20.0 | 19.9 | 99 | 70-130 | |
| 1,2-Dichloroethane | 20.0 | 20.8 | 104 | 70-130 | |
| 1,2-Dichloropropane | 20.0 | 20.3 | 102 | 70-130 | |
| 1,3-Dichlorobenzene | 20.0 | 19.9 | 99 | 70-130 | |
| 1,4-Dichlorobenzene | 20.0 | 20.0 | 100 | 70-130 | |
| 1,4-Dioxane | 400 | 465 | 116 | 40-160 | |
| 2-Butanone | 100 | 86.2 | 86 | 40-160 | |
| 2-Hexanone | 100 | 86.4 | 86 | 40-160 | |
| 4-Methyl-2-pentanone | 100 | 101 | 101 | 40-160 | |
| Acetone | 100 | 87.3 | 87 | 40-160 | |
| Benzene | 20.0 | 20.8 | 104 | 70-130 | |
| Bromochloromethane | 20.0 | 19.4 | 97 | 70-130 | |
| Bromodichloromethane | 20.0 | 20.6 | 103 | 70-130 | |
| Bromoform | 20.0 | 18.0 | 90 | 70-130 | |
| Bromomethane | 20.0 | 19.6 | 98 | 40-160 | |
| Carbon disulfide | 20.0 | 21.1 | 105 | 40-160 | |
| Carbon tetrachloride | 20.0 | 21.5 | 107 | 70-130 | |
| Chlorobenzene | 20.0 | 19.6 | 98 | 70-130 | |
| Chloroethane | 20.0 | 19.0 | 95 | 40-160 | |
| Chloroform | 20.0 | 20.7 | 103 | 70-130 | |
| Chloromethane | 20.0 | 21.3 | 107 | 40-160 | |
| cis-1,2-Dichloroethene | 20.0 | 18.8 | 94 | 70-130 | |
| cis-1,3-Dichloropropene | 20.0 | 20.2 | 101 | 70-130 | |
| Cyclohexane | 20.0 | 21.2 | 106 | 70-130 | |
| Dibromochloromethane | 20.0 | 20.3 | 101 | 70-130 | |
| Dichlorodifluoromethane | 20.0 | 16.2 | 81 | 40-160 | |
| Ethylbenzene | 20.0 | 18.6 | 93 | 70-130 | |
| Freon TF | 20.0 | 21.2 | 106 | 70-130 | |
| Isopropylbenzene | 20.0 | 21.9 | 110 | 70-130 | |
| m&p-Xylene | 20.0 | 19.8 | 99 | 70-130 | |
| Methyl acetate | 100 | 120 | 120 | 70-130 | |
| Methylcyclohexane | 20.0 | 20.1 | 101 | 70-130 | |
| Methylene Chloride | 20.0 | 20.1 | 101 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39725.D

Lab ID: LCS 460-364733/3 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| MTBE | 20.0 | 21.4 | 107 | 70-130 | |
| o-Xylene | 20.0 | 18.9 | 94 | 70-130 | |
| Styrene | 20.0 | 20.0 | 100 | 70-130 | |
| Tetrachloroethene | 20.0 | 19.1 | 96 | 70-130 | |
| Toluene | 20.0 | 20.2 | 101 | 70-130 | |
| trans-1,2-Dichloroethene | 20.0 | 20.1 | 101 | 70-130 | |
| trans-1,3-Dichloropropene | 20.0 | 20.5 | 102 | 70-130 | |
| Trichloroethene | 20.0 | 19.9 | 99 | 70-130 | |
| Trichlorofluoromethane | 20.0 | 20.7 | 104 | 40-160 | |
| Vinyl chloride | 20.0 | 20.9 | 104 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39700.D

Lab ID: LCSD 460-364590/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 21.7 | 109 | 2 | 20 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.1 | 100 | 1 | 20 | 70-130 | |
| 1,1,2-Trichloroethane | 20.0 | 20.0 | 100 | 7 | 20 | 70-130 | |
| 1,1-Dichloroethane | 20.0 | 21.2 | 106 | 3 | 20 | 70-130 | |
| 1,1-Dichloroethene | 20.0 | 20.7 | 103 | 5 | 20 | 70-130 | |
| 1,2,3-Trichlorobenzene | 20.0 | 22.2 | 111 | 7 | 20 | 70-130 | |
| 1,2,4-Trichlorobenzene | 20.0 | 21.8 | 109 | 1 | 20 | 70-130 | |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 20.2 | 101 | 4 | 20 | 40-160 | |
| 1,2-Dibromoethane | 20.0 | 20.1 | 101 | 6 | 20 | 70-130 | |
| 1,2-Dichlorobenzene | 20.0 | 21.2 | 106 | 3 | 20 | 70-130 | |
| 1,2-Dichloroethane | 20.0 | 21.5 | 108 | 7 | 20 | 70-130 | |
| 1,2-Dichloropropane | 20.0 | 20.8 | 104 | 5 | 20 | 70-130 | |
| 1,3-Dichlorobenzene | 20.0 | 21.0 | 105 | 1 | 20 | 70-130 | |
| 1,4-Dichlorobenzene | 20.0 | 21.0 | 105 | 2 | 20 | 70-130 | |
| 1,4-Dioxane | 400 | 432 | 108 | 11 | 20 | 40-160 | |
| 2-Butanone | 100 | 91.2 | 91 | 0 | 20 | 40-160 | |
| 2-Hexanone | 100 | 91.0 | 91 | 8 | 20 | 40-160 | |
| 4-Methyl-2-pentanone | 100 | 106 | 106 | 9 | 20 | 40-160 | |
| Acetone | 100 | 93.5 | 93 | 8 | 20 | 40-160 | |
| Benzene | 20.0 | 22.0 | 110 | 4 | 20 | 70-130 | |
| Bromochloromethane | 20.0 | 20.3 | 102 | 3 | 20 | 70-130 | |
| Bromodichloromethane | 20.0 | 21.2 | 106 | 4 | 20 | 70-130 | |
| Bromoform | 20.0 | 19.4 | 97 | 1 | 20 | 70-130 | |
| Bromomethane | 20.0 | 19.8 | 99 | 6 | 20 | 40-160 | |
| Carbon disulfide | 20.0 | 21.8 | 109 | 6 | 20 | 40-160 | |
| Carbon tetrachloride | 20.0 | 22.9 | 114 | 3 | 20 | 70-130 | |
| Chlorobenzene | 20.0 | 21.1 | 105 | 6 | 20 | 70-130 | |
| Chloroethane | 20.0 | 21.0 | 105 | 2 | 20 | 40-160 | |
| Chloroform | 20.0 | 21.8 | 109 | 4 | 20 | 70-130 | |
| Chloromethane | 20.0 | 21.7 | 108 | 5 | 20 | 40-160 | |
| cis-1,2-Dichloroethene | 20.0 | 18.9 | 95 | 5 | 20 | 70-130 | |
| cis-1,3-Dichloropropene | 20.0 | 21.6 | 108 | 1 | 20 | 70-130 | |
| Cyclohexane | 20.0 | 24.7 | 124 | 3 | 20 | 70-130 | |
| Dibromochloromethane | 20.0 | 20.6 | 103 | 3 | 20 | 70-130 | |
| Dichlorodifluoromethane | 20.0 | 25.5 | 128 | 3 | 20 | 40-160 | |
| Ethylbenzene | 20.0 | 19.2 | 96 | 7 | 20 | 70-130 | |
| Freon TF | 20.0 | 24.8 | 124 | 0 | 20 | 70-130 | |
| Isopropylbenzene | 20.0 | 22.6 | 113 | 7 | 20 | 70-130 | |
| m&p-Xylene | 20.0 | 20.4 | 102 | 7 | 20 | 70-130 | |
| Methyl acetate | 100 | 126 | 126 | 3 | 20 | 70-130 | |
| Methylcyclohexane | 20.0 | 25.4 | 127 | 1 | 20 | 70-130 | |
| Methylene Chloride | 20.0 | 20.3 | 101 | 4 | 20 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39700.D

Lab ID: LCSD 460-364590/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| MTBE | 20.0 | 22.1 | 110 | 3 | 20 | 70-130 | |
| o-Xylene | 20.0 | 20.2 | 101 | 6 | 20 | 70-130 | |
| Styrene | 20.0 | 21.2 | 106 | 6 | 20 | 70-130 | |
| Tetrachloroethene | 20.0 | 20.1 | 100 | 5 | 20 | 70-130 | |
| Toluene | 20.0 | 21.4 | 107 | 3 | 20 | 70-130 | |
| trans-1,2-Dichloroethene | 20.0 | 19.7 | 99 | 5 | 20 | 70-130 | |
| trans-1,3-Dichloropropene | 20.0 | 21.4 | 107 | 2 | 20 | 70-130 | |
| Trichloroethene | 20.0 | 21.0 | 105 | 6 | 20 | 70-130 | |
| Trichlorofluoromethane | 20.0 | 23.1 | 116 | 6 | 20 | 40-160 | |
| Vinyl chloride | 20.0 | 22.3 | 112 | 4 | 20 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39726.D

Lab ID: LCSD 460-364733/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 22.7 | 114 | 8 | 20 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.6 | 103 | 3 | 20 | 70-130 | |
| 1,1,2-Trichloroethane | 20.0 | 19.9 | 99 | 2 | 20 | 70-130 | |
| 1,1-Dichloroethane | 20.0 | 22.6 | 113 | 14 | 20 | 70-130 | |
| 1,1-Dichloroethene | 20.0 | 22.0 | 110 | 10 | 20 | 70-130 | |
| 1,2,3-Trichlorobenzene | 20.0 | 23.9 | 120 | 15 | 20 | 70-130 | |
| 1,2,4-Trichlorobenzene | 20.0 | 22.0 | 110 | 6 | 20 | 70-130 | |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 21.3 | 106 | 9 | 20 | 40-160 | |
| 1,2-Dibromoethane | 20.0 | 20.1 | 100 | 9 | 20 | 70-130 | |
| 1,2-Dichlorobenzene | 20.0 | 21.6 | 108 | 8 | 20 | 70-130 | |
| 1,2-Dichloroethane | 20.0 | 21.5 | 108 | 3 | 20 | 70-130 | |
| 1,2-Dichloropropane | 20.0 | 21.9 | 110 | 8 | 20 | 70-130 | |
| 1,3-Dichlorobenzene | 20.0 | 21.7 | 108 | 9 | 20 | 70-130 | |
| 1,4-Dichlorobenzene | 20.0 | 21.4 | 107 | 7 | 20 | 70-130 | |
| 1,4-Dioxane | 400 | 421 | 105 | 10 | 20 | 40-160 | |
| 2-Butanone | 100 | 95.5 | 95 | 10 | 20 | 40-160 | |
| 2-Hexanone | 100 | 98.0 | 98 | 13 | 20 | 40-160 | |
| 4-Methyl-2-pentanone | 100 | 115 | 115 | 13 | 20 | 40-160 | |
| Acetone | 100 | 102 | 102 | 16 | 20 | 40-160 | |
| Benzene | 20.0 | 22.5 | 112 | 8 | 20 | 70-130 | |
| Bromochloromethane | 20.0 | 20.5 | 102 | 5 | 20 | 70-130 | |
| Bromodichloromethane | 20.0 | 21.8 | 109 | 6 | 20 | 70-130 | |
| Bromoform | 20.0 | 19.2 | 96 | 6 | 20 | 70-130 | |
| Bromomethane | 20.0 | 21.0 | 105 | 7 | 20 | 40-160 | |
| Carbon disulfide | 20.0 | 23.2 | 116 | 10 | 20 | 40-160 | |
| Carbon tetrachloride | 20.0 | 22.6 | 113 | 5 | 20 | 70-130 | |
| Chlorobenzene | 20.0 | 21.6 | 108 | 9 | 20 | 70-130 | |
| Chloroethane | 20.0 | 20.8 | 104 | 9 | 20 | 40-160 | |
| Chloroform | 20.0 | 22.4 | 112 | 8 | 20 | 70-130 | |
| Chloromethane | 20.0 | 23.2 | 116 | 9 | 20 | 40-160 | |
| cis-1,2-Dichloroethene | 20.0 | 20.5 | 102 | 9 | 20 | 70-130 | |
| cis-1,3-Dichloropropene | 20.0 | 22.2 | 111 | 10 | 20 | 70-130 | |
| Cyclohexane | 20.0 | 23.0 | 115 | 8 | 20 | 70-130 | |
| Dibromochloromethane | 20.0 | 21.1 | 106 | 4 | 20 | 70-130 | |
| Dichlorodifluoromethane | 20.0 | 18.3 | 91 | 12 | 20 | 40-160 | |
| Ethylbenzene | 20.0 | 21.0 | 105 | 12 | 20 | 70-130 | |
| Freon TF | 20.0 | 22.7 | 114 | 7 | 20 | 70-130 | |
| Isopropylbenzene | 20.0 | 23.5 | 117 | 7 | 20 | 70-130 | |
| m&p-Xylene | 20.0 | 21.3 | 107 | 7 | 20 | 70-130 | |
| Methyl acetate | 100 | 129 | 129 | 7 | 20 | 70-130 | |
| Methylcyclohexane | 20.0 | 20.7 | 103 | 3 | 20 | 70-130 | |
| Methylene Chloride | 20.0 | 21.5 | 107 | 7 | 20 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J39726.D

Lab ID: LCSD 460-364733/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| MTBE | 20.0 | 22.6 | 113 | 6 | 20 | 70-130 | |
| o-Xylene | 20.0 | 21.1 | 106 | 11 | 20 | 70-130 | |
| Styrene | 20.0 | 22.1 | 110 | 10 | 20 | 70-130 | |
| Tetrachloroethene | 20.0 | 20.4 | 102 | 6 | 20 | 70-130 | |
| Toluene | 20.0 | 22.0 | 110 | 9 | 20 | 70-130 | |
| trans-1,2-Dichloroethene | 20.0 | 21.4 | 107 | 6 | 20 | 70-130 | |
| trans-1,3-Dichloropropene | 20.0 | 21.8 | 109 | 6 | 20 | 70-130 | |
| Trichloroethene | 20.0 | 21.7 | 108 | 9 | 20 | 70-130 | |
| Trichlorofluoromethane | 20.0 | 23.1 | 116 | 11 | 20 | 40-160 | |
| Vinyl chloride | 20.0 | 22.0 | 110 | 5 | 20 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab File ID: J39703.D Lab Sample ID: MB 460-364590/7

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

Instrument ID: CVOAMS8 Date Analyzed: 04/26/2016 00:14

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 460-364590/3 | J39699.D | 04/25/2016 21:58 |
| | LCSD 460-364590/4 | J39700.D | 04/25/2016 22:25 |
| TWP-1 | 460-112643-1 | J39717.D | 04/26/2016 06:26 |
| TWP-2 | 460-112643-2 | J39718.D | 04/26/2016 06:52 |
| TWP-3 | 460-112643-3 | J39719.D | 04/26/2016 07:19 |
| TWP-6 | 460-112643-6 | J39720.D | 04/26/2016 07:45 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Lab File ID: J39728.D  Lab Sample ID: MB 460-364733/6

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

Instrument ID: CVOAMS8  Date Analyzed: 04/26/2016 11:15

GC Column: Rtx-624  ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 460-364733/3 | J39725.D | 04/26/2016 09:54 |
| | LCSD 460-364733/4 | J39726.D | 04/26/2016 10:21 |
| TWP-4 | 460-112643-4 | J39731.D | 04/26/2016 12:37 |
| TWP-5 | 460-112643-5 | J39732.D | 04/26/2016 13:05 |

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

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Lab File ID: J38328.D  BFB Injection Date: 03/29/2016

Instrument ID: CVOAMS8  BFB Injection Time: 02:50

Analysis Batch No.: 359281

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 16.9 | |
| 75 | 30.0 - 60.0 % of mass 95 | 46.7 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.1 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0) 1 |
| 174 | 50.0 - 120.00 % of mass 95 | 106.0 | |
| 175 | 5.0 - 9.0 % of mass 174 | 8.6 | (8.1) 1 |
| 176 | 95.0 - 101.0 % of mass 174 | 103.9 | (98.0) 1 |
| 177 | 5.0 - 9.0 % of mass 176 | 7.2 | (6.9) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD7 460-359281/2 | J38329.D | 03/29/2016 | 03:17 |
| | STD1 460-359281/3 | J38330.D | 03/29/2016 | 03:43 |
| | STD5 460-359281/4 | J38331.D | 03/29/2016 | 04:09 |
| | STD20 460-359281/5 | J38332.D | 03/29/2016 | 04:36 |
| | STD50 460-359281/6 | J38333.D | 03/29/2016 | 05:02 |
| | STD200 460-359281/7 | J38334.D | 03/29/2016 | 05:28 |
| | STD500 460-359281/8 | J38335.D | 03/29/2016 | 08:09 |

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab File ID: J39697.D BFB Injection Date: 04/25/2016

Instrument ID: CVOAMS8 BFB Injection Time: 20:56

Analysis Batch No.: 364590

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 19.7 | |
| 75 | 30.0 - 60.0 % of mass 95 | 48.3 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.8 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0) 1 |
| 174 | 50.0 - 120.00 % of mass 95 | 105.7 | |
| 175 | 5.0 - 9.0 % of mass 174 | 9.0 | (8.6) 1 |
| 176 | 95.0 - 101.0 % of mass 174 | 105.7 | (99.9) 1 |
| 177 | 5.0 - 9.0 % of mass 176 | 7.1 | (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 460-364590/2 | J39698.D | 04/25/2016 | 21:24 |
| | LCS 460-364590/3 | J39699.D | 04/25/2016 | 21:58 |
| | LCSD 460-364590/4 | J39700.D | 04/25/2016 | 22:25 |
| | MB 460-364590/7 | J39703.D | 04/26/2016 | 00:14 |
| TWP-1 | 460-112643-1 | J39717.D | 04/26/2016 | 06:26 |
| TWP-2 | 460-112643-2 | J39718.D | 04/26/2016 | 06:52 |
| TWP-3 | 460-112643-3 | J39719.D | 04/26/2016 | 07:19 |
| TWP-6 | 460-112643-6 | J39720.D | 04/26/2016 | 07:45 |

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

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Lab File ID: J39723.D  BFB Injection Date: 04/26/2016

Instrument ID: CVOAMS8  BFB Injection Time: 09:02

Analysis Batch No.: 364733

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 18.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 48.6 | |
| 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 - 120.00 % of mass 95 | 94.8 | |
| 175 | 5.0 - 9.0 % of mass 174 | 7.0 | (7.4) 1 |
| 176 | 95.0 - 101.0 % of mass 174 | 94.1 | (99.3) 1 |
| 177 | 5.0 - 9.0 % of mass 176 | 7.8 | (8.3) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 460-364733/2 | J39724.D | 04/26/2016 | 09:28 |
| | LCS 460-364733/3 | J39725.D | 04/26/2016 | 09:54 |
| | LCSD 460-364733/4 | J39726.D | 04/26/2016 | 10:21 |
| | MB 460-364733/6 | J39728.D | 04/26/2016 | 11:15 |
| TWP-4 | 460-112643-4 | J39731.D | 04/26/2016 | 12:37 |
| TWP-5 | 460-112643-5 | J39732.D | 04/26/2016 | 13:05 |

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

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Sample No.: CCVIS 460-364590/2  Date Analyzed: 04/25/2016 21:24

Instrument ID: CVOAMS8  GC Column: Rtx-624  ID: 0.25(mm)

Lab File ID (Standard): J39698.D  Heated Purge: (Y/N) N

Calibration ID: 55110

| | | TBA | | BUT | | FB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 426719 | 2.90 | 515266 | 4.24 | 989975 | 5.55 |
| UPPER LIMIT | | 853438 | 3.40 | 1030532 | 4.74 | 1979950 | 6.05 |
| LOWER LIMIT | | 213360 | 2.40 | 257633 | 3.74 | 494988 | 5.05 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 460-364590/3 | | 409461 | 2.90 | 484678 | 4.25 | 927822 | 5.55 |
| LCSD 460-364590/4 | | 433400 | 2.90 | 526547 | 4.24 | 976407 | 5.55 |
| MB 460-364590/7 | | 424525 | 2.90 | 523515 | 4.25 | 996456 | 5.55 |
| 460-112643-1 | TWP-1 | 416065 | 2.90 | 504895 | 4.26 | 950565 | 5.56 |
| 460-112643-2 | TWP-2 | 418768 | 2.90 | 518602 | 4.26 | 976254 | 5.56 |
| 460-112643-3 | TWP-3 | 417061 | 2.91 | 516262 | 4.26 | 987605 | 5.56 |
| 460-112643-6 | TWP-6 | 413400 | 2.91 | 519987 | 4.25 | 948471 | 5.56 |

TBA = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

# Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Sample No.: CCVIS 460-364590/2  Date Analyzed: 04/25/2016 21:24

Instrument ID: CVOAMS8  GC Column: Rtx-624  ID: 0.25(mm)

Lab File ID (Standard): J39698.D  Heated Purge: (Y/N) N

Calibration ID: 55110

| | | DXE | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 66435 | 6.36 | 887972 | 9.38 | 529491 | 11.42 |
| UPPER LIMIT | | 132870 | 6.86 | 1775944 | 9.88 | 1058982 | 11.92 |
| LOWER LIMIT | | 33218 | 5.86 | 443986 | 8.88 | 264746 | 10.92 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 460-364590/3 | | 57128 | 6.36 | 826652 | 9.38 | 512116 | 11.42 |
| LCSD 460-364590/4 | | 63920 | 6.36 | 885975 | 9.38 | 517901 | 11.42 |
| MB 460-364590/7 | | 61019 | 6.36 | 903761 | 9.38 | 530575 | 11.42 |
| 460-112643-1 | TWP-1 | 58848 | 6.38 | 868127 | 9.38 | 502039 | 11.42 |
| 460-112643-2 | TWP-2 | 62174 | 6.38 | 862807 | 9.38 | 504360 | 11.42 |
| 460-112643-3 | TWP-3 | 61870 | 6.37 | 870278 | 9.39 | 511826 | 11.43 |
| 460-112643-6 | TWP-6 | 59712 | 6.38 | 858822 | 9.39 | 498262 | 11.43 |

DXE = 1,4-Dioxane-d8
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

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

# Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Sample No.: CCVIS 460-364733/2  Date Analyzed: 04/26/2016 09:28

Instrument ID: CVOAMS8  GC Column: Rtx-624  ID: 0.25(mm)

Lab File ID (Standard): J39724.D  Heated Purge: (Y/N) N

Calibration ID: 55110

| | | TBA | | BUT | | FB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 412539 | 2.90 | 517993 | 4.25 | 979618 | 5.56 |
| UPPER LIMIT | | 825078 | 3.40 | 1035986 | 4.75 | 1959236 | 6.06 |
| LOWER LIMIT | | 206270 | 2.40 | 258997 | 3.75 | 489809 | 5.06 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 460-364733/3 | | 422884 | 2.91 | 527604 | 4.26 | 988232 | 5.57 |
| LCSD 460-364733/4 | | 398066 | 2.90 | 483026 | 4.25 | 930418 | 5.56 |
| MB 460-364733/6 | | 443103 | 2.91 | 524381 | 4.26 | 1005865 | 5.56 |
| 460-112643-4 | TWP-4 | 446936 | 2.92 | 532176 | 4.26 | 961764 | 5.57 |
| 460-112643-5 | TWP-5 | 468249 | 2.91 | 551097 | 4.26 | 1003516 | 5.57 |

TBA = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

# Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Sample No.: CCVIS 460-364733/2  Date Analyzed: 04/26/2016 09:28

Instrument ID: CVOAMS8  GC Column: Rtx-624  ID: 0.25(mm)

Lab File ID (Standard): J39724.D  Heated Purge: (Y/N) N

Calibration ID: 55110

| | | DXE | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 61442 | 6.37 | 888585 | 9.39 | 521363 | 11.43 |
| UPPER LIMIT | | 122884 | 6.87 | 1777170 | 9.89 | 1042726 | 11.93 |
| LOWER LIMIT | | 30721 | 5.87 | 444293 | 8.89 | 260682 | 10.93 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 460-364733/3 | | 56965 | 6.37 | 898627 | 9.39 | 520986 | 11.43 |
| LCSD 460-364733/4 | | 60854 | 6.38 | 842927 | 9.39 | 497831 | 11.43 |
| MB 460-364733/6 | | 64480 | 6.39 | 883434 | 9.39 | 515099 | 11.43 |
| 460-112643-4 | TWP-4 | 60391 | 6.38 | 876440 | 9.40 | 505414 | 11.43 |
| 460-112643-5 | TWP-5 | 61420 | 6.38 | 911727 | 9.39 | 526008 | 11.43 |

DXE = 1,4-Dioxane-d8
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

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

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-1 | Lab Sample ID: 460-112643-1

Matrix: Water | Lab File ID: J39717.D

Analysis Method: 8260C | Date Collected: 04/22/2016 10:29

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 06:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.090 | U | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.55 | J | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.26 | U | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-1 | Lab Sample ID: 460-112643-1

Matrix: Water | Lab File ID: J39717.D

Analysis Method: 8260C | Date Collected: 04/22/2016 10:29

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 06:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.22 | J | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 5.0 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.4 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.060 | U | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 95 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-1  Lab Sample ID: 460-112643-1

Matrix: Water  Lab File ID: J39717.D

Analysis Method: 8260C  Date Collected: 04/22/2016 10:29

Sample wt/vol: 5(mL)  Date Analyzed: 04/26/2016 06:26

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: Rtx-624  ID: 0.25(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 364590  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39717.D
Lims ID: 460-112643-B-1
Client ID: TWP-1
Sample Type: Client
Inject. Date: 26-Apr-2016 06:26:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-112643-B-1
Misc. Info.: 460-0040266-021
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 09:44:17 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: nimerd Date: 26-Apr-2016 09:44:23

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 26 TBA-d9 (IS) | 65 | 2.904 | 2.898 | 0.006 | 81 | 416065 | 1000.0 | |
| 29 Methyl tert-butyl ether | 73 | 3.109 | 3.098 | 0.011 | 68 | 3855 | 0.2173 | |
| * 38 2-Butanone-d5 | 46 | 4.255 | 4.244 | 0.011 | 86 | 504895 | 250.0 | |
| 48 Chloroform | 83 | 4.631 | 4.614 | 0.017 | 61 | 6227 | 0.5503 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.819 | 4.814 | 0.005 | 98 | 259145 | 50.8 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.236 | 5.231 | 0.005 | 95 | 312464 | 55.0 | |
| * 62 Fluorobenzene | 96 | 5.559 | 5.548 | 0.011 | 98 | 950565 | 50.0 | |
| 64 Trichloroethene | 95 | 5.965 | 5.954 | 0.011 | 91 | 9784 | 1.43 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.376 | 6.359 | 0.017 | 91 | 58848 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.463 | 7.452 | 0.011 | 99 | 1040105 | 49.3 | |
| 84 Tetrachloroethene | 166 | 8.209 | 8.204 | 0.005 | 95 | 36725 | 4.99 | |
| * 90 Chlorobenzene-d5 | 117 | 9.384 | 9.379 | 0.005 | 86 | 868127 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.554 | 0.005 | 95 | 360243 | 47.6 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.423 | 11.418 | 0.005 | 94 | 502039 | 50.0 | |

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

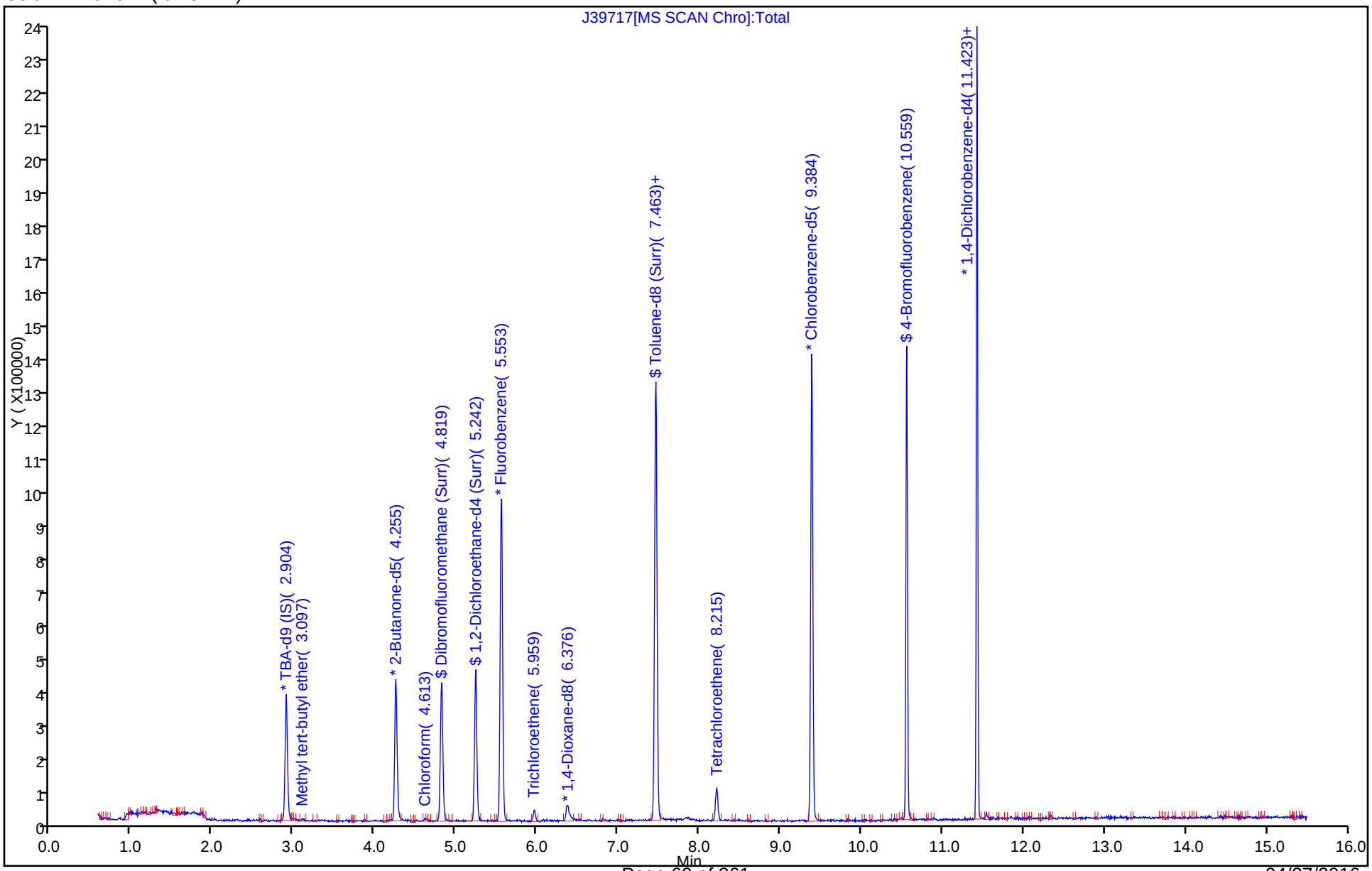
Report Date: 26-Apr-2016 09:44:24 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39717.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:26:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | 460-112643-B-1 | Lab Sample ID: | 460-112643-1 | Worklist Smp#: | 21 |
| Client ID: | TWP-1 | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 20 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

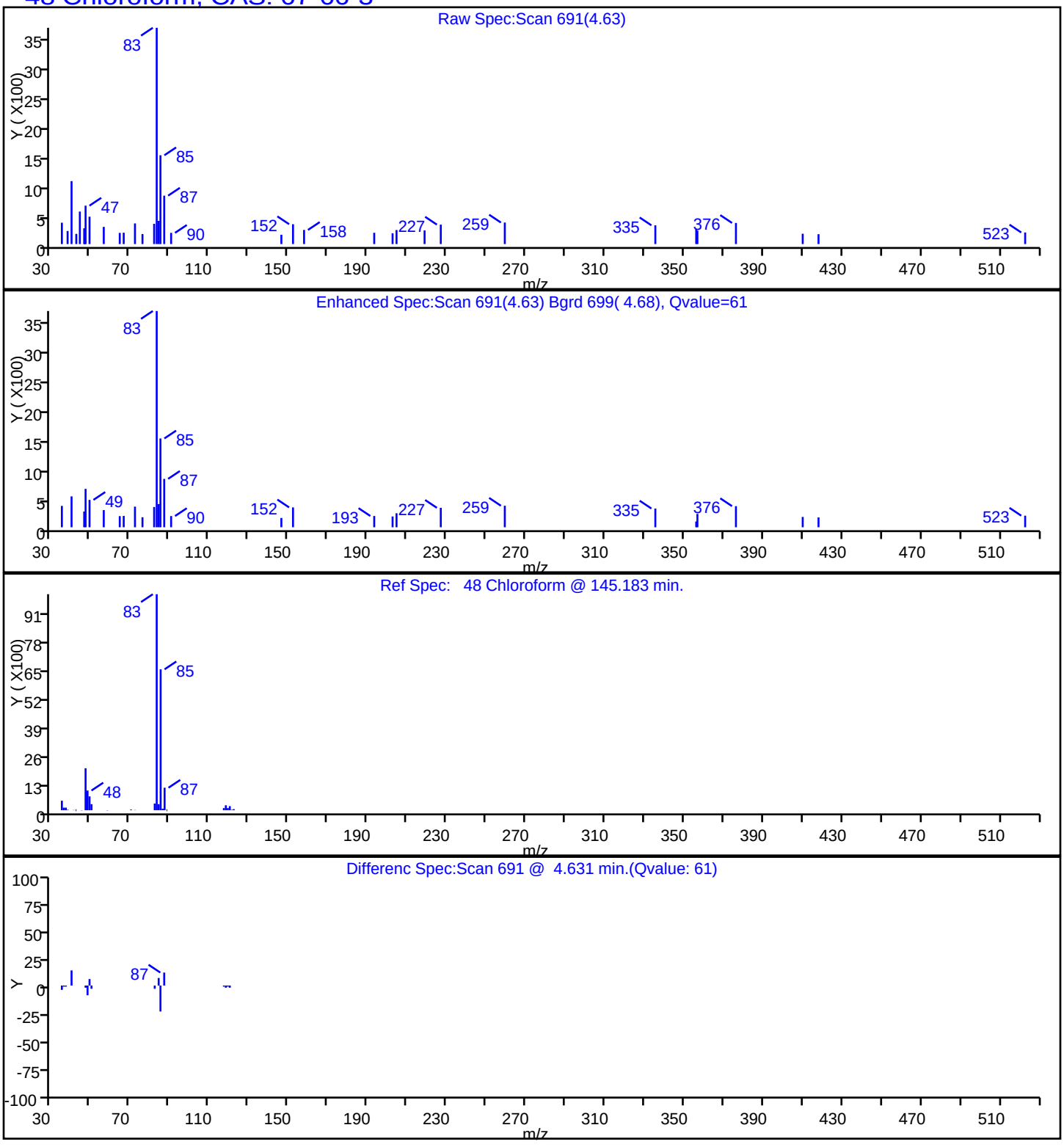
Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39717.D | | | | |
| Injection Date: | 26-Apr-2016 06:26:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-1 | Lab Sample ID: | 460-112643-1 | | |
| Client ID: | TWP-1 | | | | |
| Operator ID: | | ALS Bottle#: | 20 | Worklist Smp#: | 21 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

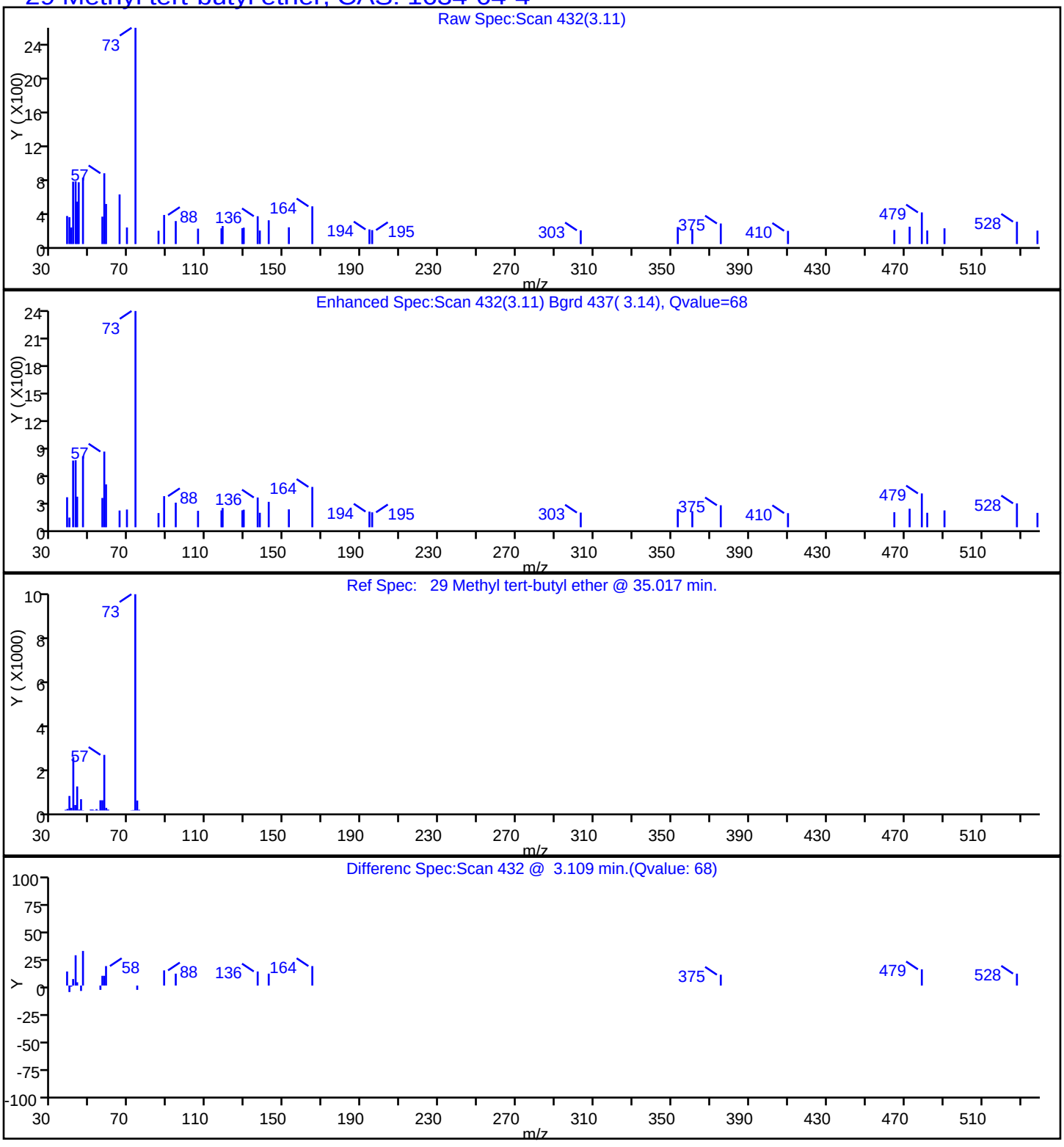
## 48 Chloroform, CAS: 67-66-3



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39717.D | | | | |
| Injection Date: | 26-Apr-2016 06:26:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-1 | Lab Sample ID: | 460-112643-1 | | |
| Client ID: | TWP-1 | | | | |
| Operator ID: | | ALS Bottle#: | 20 | Worklist Smp#: | 21 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 29 Methyl tert-butyl ether, CAS: 1634-04-4

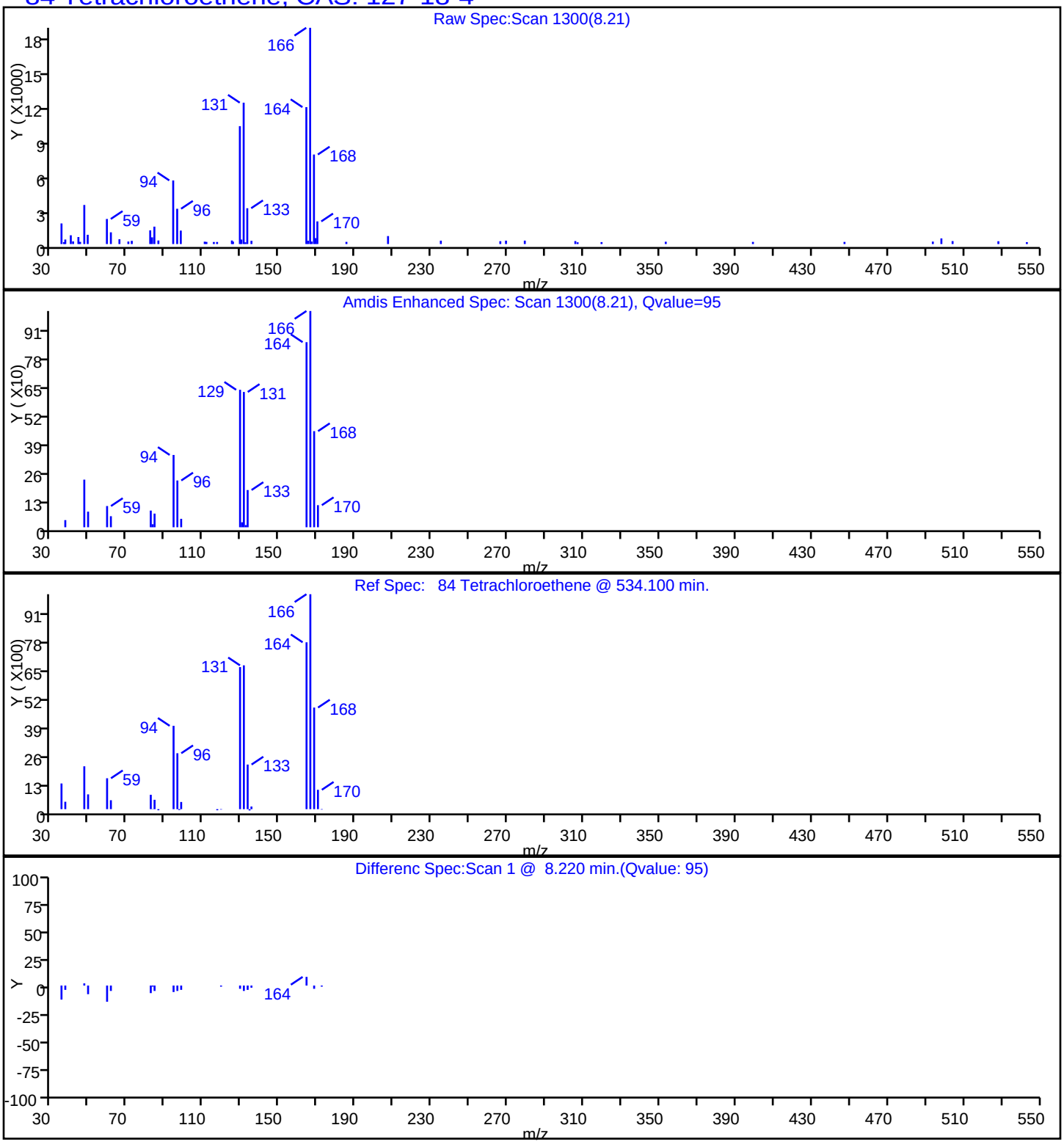


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39717.D

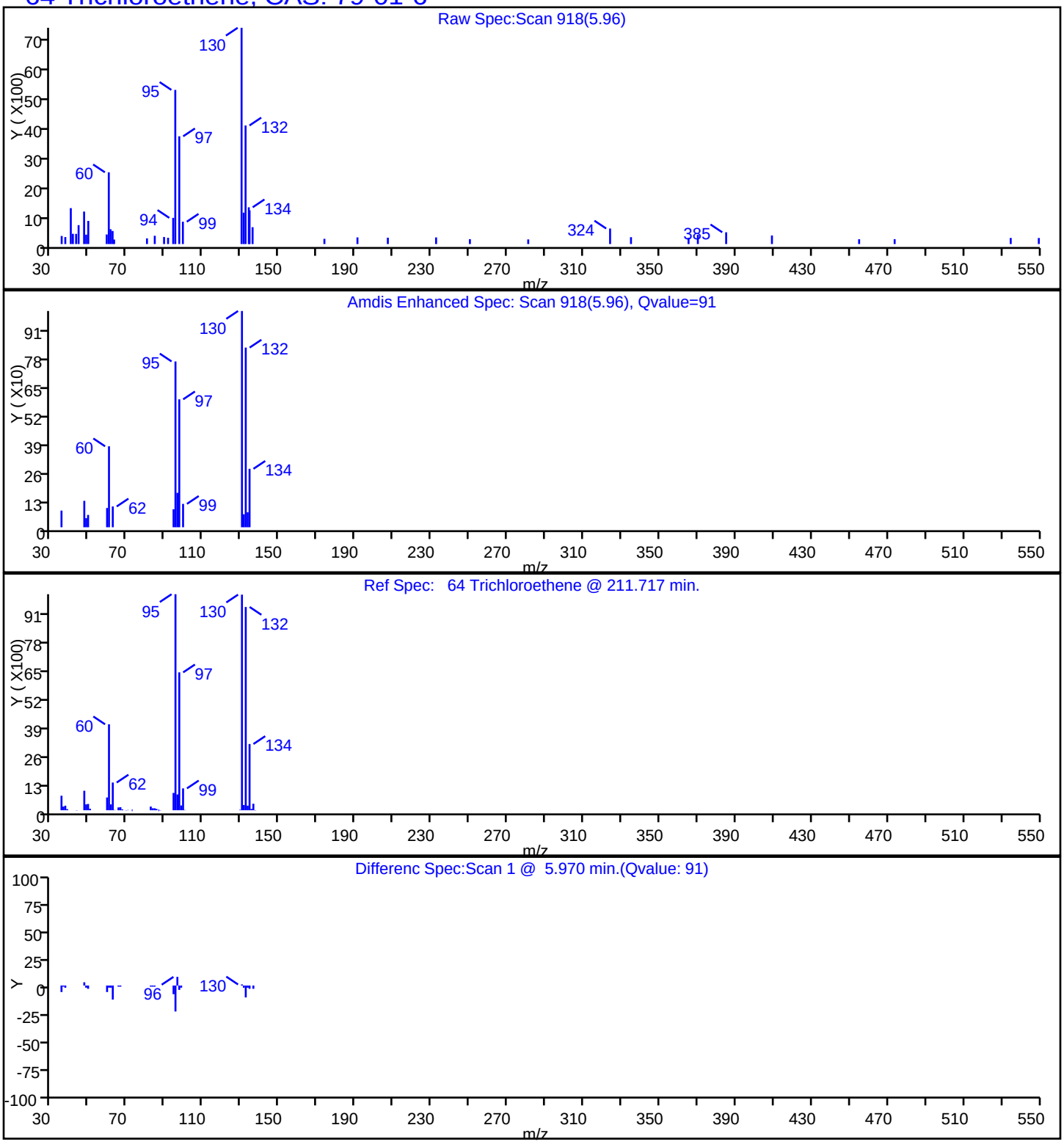
| | | | |
|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:26:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-1 | Lab Sample ID: | 460-112643-1 |
| Client ID: | TWP-1 | | |
| Operator ID: | | ALS Bottle#: | 20 Worklist Smp#: 21 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 84 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39717.D
Injection Date: 26-Apr-2016 06:26:30 Instrument ID: CVOAMS8
Lims ID: 460-112643-B-1 Lab Sample ID: 460-112643-1
Client ID: TWP-1
Operator ID: ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 ( 0.25 mm) Detector MS SCAN

## 64 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-2 | Lab Sample ID: 460-112643-2

Matrix: Water | Lab File ID: J39718.D

Analysis Method: 8260C | Date Collected: 04/22/2016 11:09

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 06:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.66 | J | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.22 | U | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 16 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 4.1 | | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-2 | Lab Sample ID: 460-112643-2

Matrix: Water | Lab File ID: J39718.D

Analysis Method: 8260C | Date Collected: 04/22/2016 11:09

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 06:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 1.1 | | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 3.3 | | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 10 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.21 | J | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 2.2 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.21 | J | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 94 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-2 | Lab Sample ID: 460-112643-2

Matrix: Water | Lab File ID: J39718.D

Analysis Method: 8260C | Date Collected: 04/22/2016 11:09

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 06:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

Number TICs Found: 6 | TIC Result Total: 81.9

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 75-28-5 | Isobutane | 0.85 | 14 | J N |
| 78-78-4 | Butane, 2-methyl- | 1.52 | 19 | J N |
| | Unknown alkane | 2.73 | 6.5 | J |
| | Unknown Cycloalkane | 2.85 | 6.3 | J |
| 75-65-0 | 2-Propanol, 2-methyl- | 2.99 | 30 | J N |
| | Unknown Cycloalkane | 4.02 | 6.1 | J |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D
Lims ID: 460-112643-B-2
Client ID: TWP-2
Sample Type: Client
Inject. Date: 26-Apr-2016 06:52:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-112643-B-2
Misc. Info.: 460-0040266-022
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:47:10 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: nimerd Date: 26-Apr-2016 09:39:43

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 4 Vinyl chloride | 62 | 1.023 | 1.018 | 0.005 | 31 | 1730 | 0.2119 | |
| * 26 TBA-d9 (IS) | 65 | 2.904 | 2.898 | 0.006 | 79 | 418768 | 1000.0 | |
| 29 Methyl tert-butyl ether | 73 | 3.103 | 3.098 | 0.005 | 95 | 60453 | 3.32 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.139 | 3.122 | 0.017 | 33 | 1500 | 0.2141 | |
| * 38 2-Butanone-d5 | 46 | 4.255 | 4.244 | 0.011 | 86 | 518602 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.284 | 4.279 | 0.005 | 98 | 127244 | 15.5 | |
| 49 Cyclohexane | 56 | 4.772 | 4.761 | 0.011 | 83 | 30235 | 4.11 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.819 | 4.814 | 0.005 | 96 | 262813 | 50.1 | |
| 56 Benzene | 78 | 5.213 | 5.207 | 0.006 | 88 | 17204 | 0.6630 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.242 | 5.231 | 0.011 | 96 | 321077 | 55.1 | |
| * 62 Fluorobenzene | 96 | 5.559 | 5.548 | 0.011 | 99 | 976254 | 50.0 | |
| 64 Trichloroethene | 95 | 5.965 | 5.954 | 0.011 | 95 | 15613 | 2.22 | |
| 66 Methylcyclohexane | 83 | 6.106 | 6.089 | 0.017 | 27 | 6280 | 1.05 | M |
| * 68 1,4-Dioxane-d8 | 96 | 6.376 | 6.359 | 0.017 | 95 | 62174 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.463 | 7.452 | 0.011 | 100 | 1053745 | 50.3 | |
| 84 Tetrachloroethene | 166 | 8.215 | 8.204 | 0.011 | 95 | 72831 | 9.97 | |
| * 90 Chlorobenzene-d5 | 117 | 9.384 | 9.379 | 0.005 | 85 | 862807 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.554 | 0.005 | 96 | 354730 | 47.1 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.423 | 11.418 | 0.005 | 94 | 504360 | 50.0 | |

## QC Flag Legend

Review Flags
M - Manually Integrated

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Edison
Tentatively Identified Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | | | |
| Lims ID: | 460-112643-B-2 | | | | |
| Client ID: | TWP-2 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 26-Apr-2016 06:52:30 | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Sample Info: | 460-112643-B-2 | | | | |
| Misc. Info.: | 460-0040266-022 | | | | |
| Operator ID: | | Instrument ID: | CVOAMS8 | | |
| Method: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m | | | | |
| Limit Group: | VOA - 8260C Water and Solid | | | | |
| Last Update: | 26-Apr-2016 10:47:10 | Calib Date: | 29-Mar-2016 08:09:30 | | |
| Tic RT Window: | 0.000 -0.000 | Response: | area | | |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 | | |
| MS Library: | \\ChromNA\Edison\Database\NIST02.L | | | | |
| Min. Match: | 30 | | | | |
| Column 1 : | Rtx-624 ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK022 | | | | |
| First Level Reviewer: nimerd | | Date: | 26-Apr-2016 09:39:43 | | |

Tentative Identified Compound Results

| RT | Area | Amount ug/l | Quant Cpnd | Qual | Lib Entry | Molecular Formula | Mol. Weight | Flags |
|---|---|---|---|---|---|---|---|---|
| | 75-28-5 | Isobutane | | | | | | |
| 0.847 | 550989 | 13.5 | 62 | 86 | 226 | C4H10 | 58 | |
| | 78-78-4 | Butane, 2-methyl- | | | | | | |
| 1.523 | 774053 | 19.0 | 62 | 90 | 701 | C5H12 | 72 | |
| | | Unknown alkane | | | | | | |
| 2.733 | 264574 | 6.50 | 62 | 0 | 0 | | 0 | |
| | | Unknown Cycloalkane | | | | | | |
| 2.851 | 257667 | 6.33 | 62 | 0 | 0 | | 0 | |
| | 75-65-0 | 2-Propanol, 2-methyl- | | | | | | |
| 2.992 | 1239715 | 30.4 | 62 | 64 | 840 | C4H10O | 74 | |
| | | Unknown Cycloalkane | | | | | | |
| 4.020 | 246964 | 6.06 | 62 | 0 | 0 | | 0 | |

Quantitation Compounds

| Compound | RT | Area | Amount ug/l |
|---|---|---|---|
| * 62 Fluorobenzene | 5.559 | 2036647 | 50.0 |

## QC Flag Legend

Processing Flags

## Reagents:

| | | | | |
|---|---|---|---|---|
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

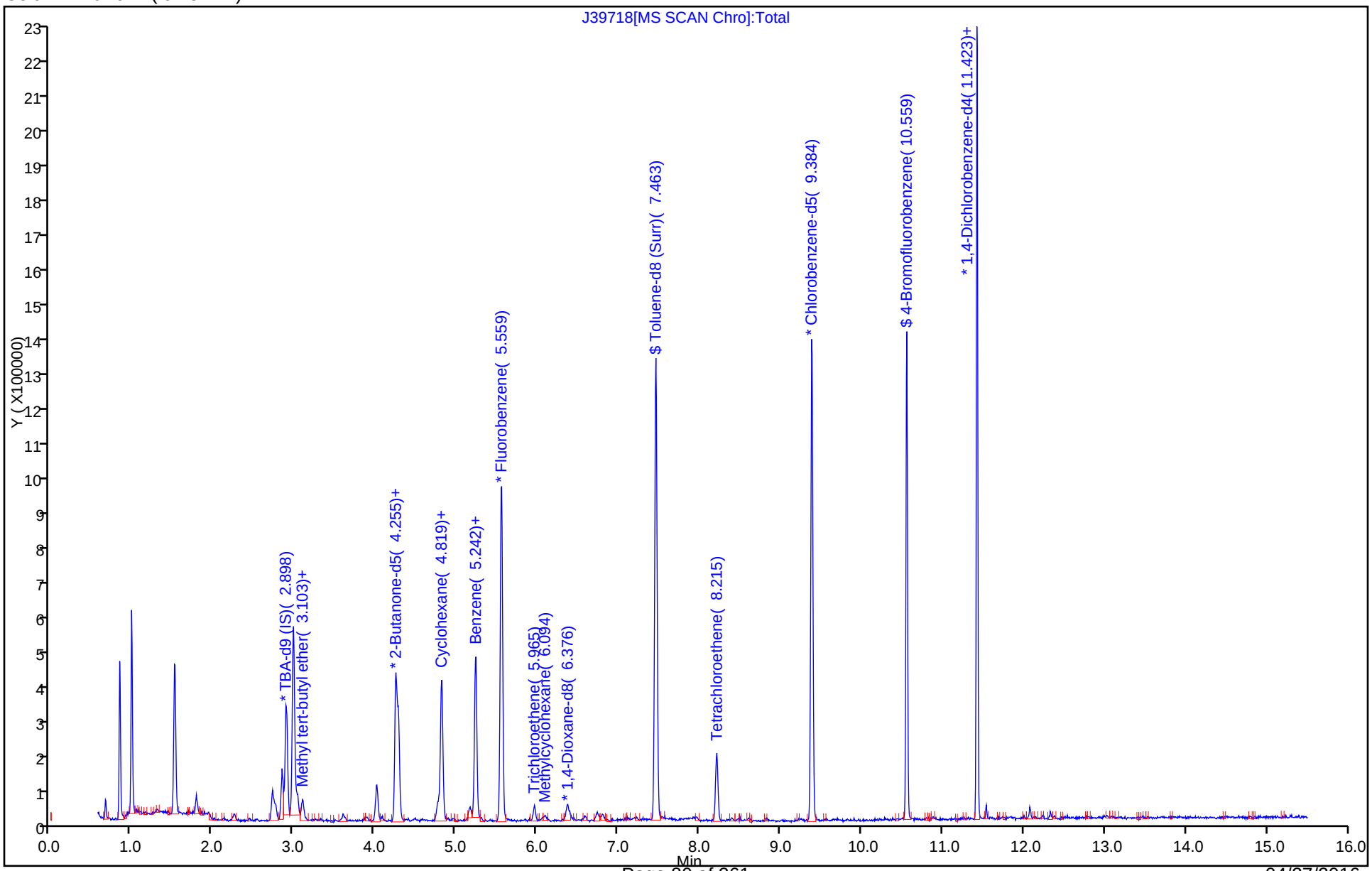
Report Date: 26-Apr-2016 10:48:57 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | Worklist Smp#: | 22 |
| Client ID: | TWP-2 | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 21 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

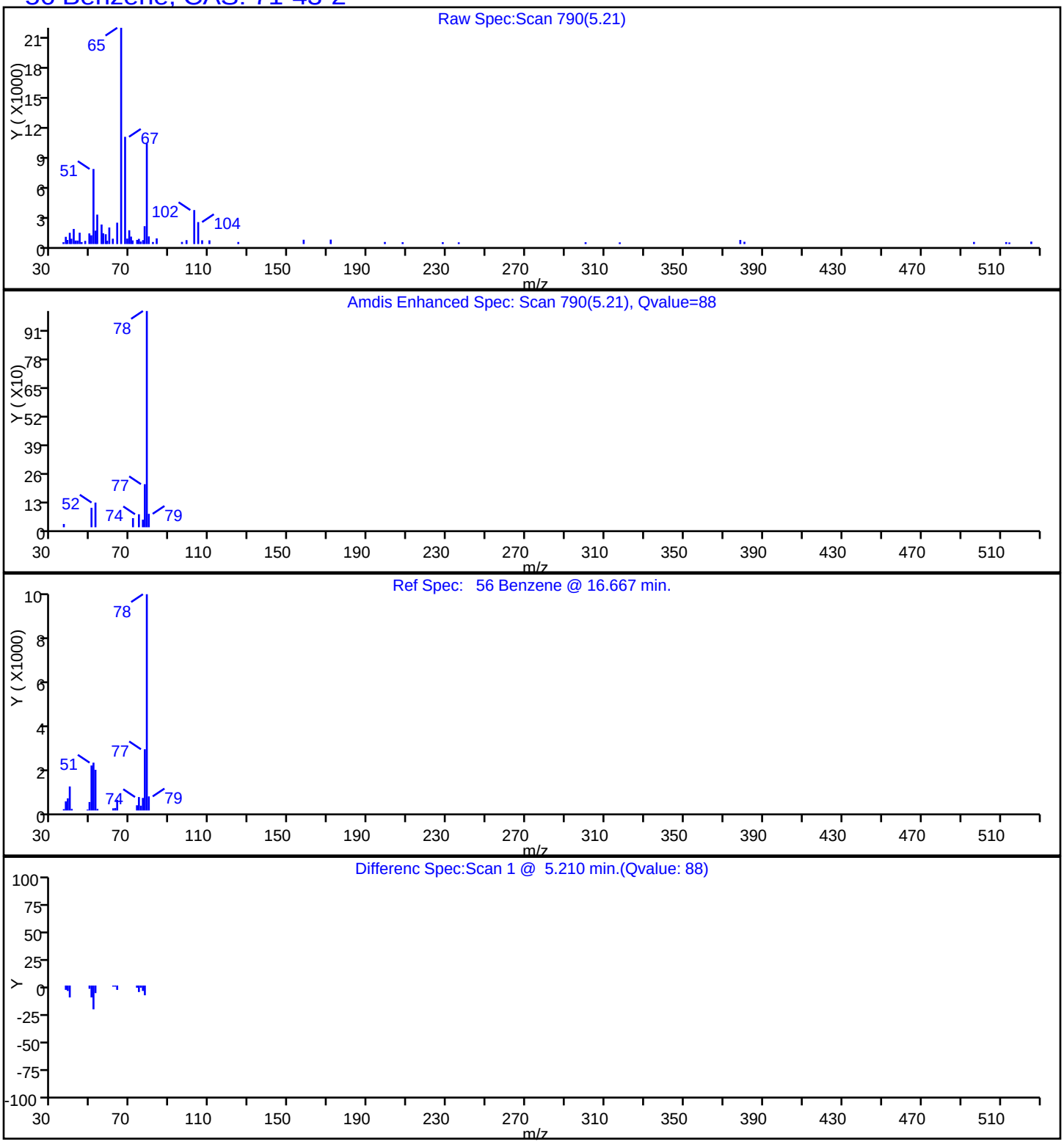
Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 |
| Client ID: | TWP-2 | | |
| Operator ID: | | ALS Bottle#: | 21 Worklist Smp#: 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

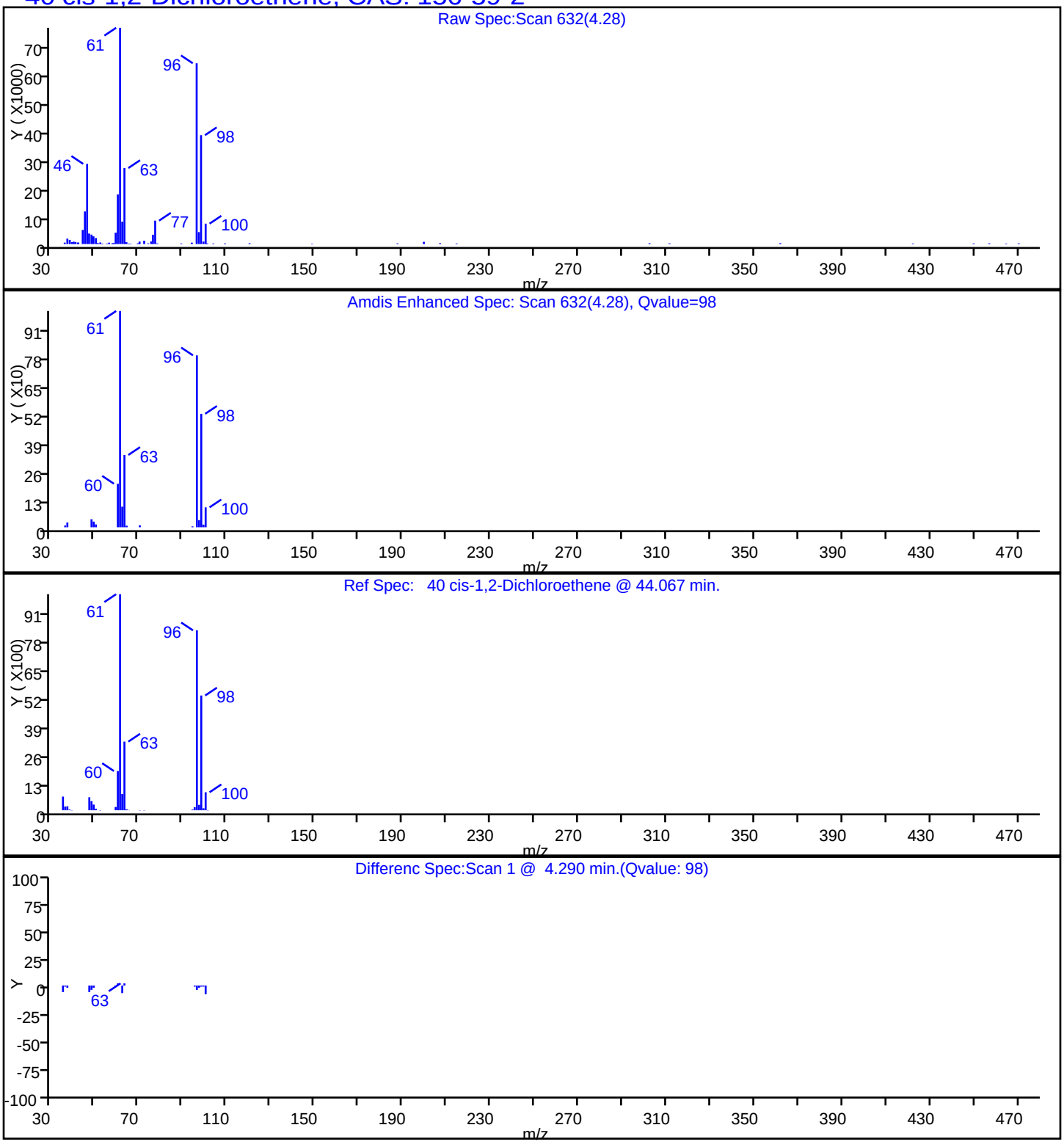
## 56 Benzene, CAS: 71-43-2



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 |
| Client ID: | TWP-2 | | |
| Operator ID: | | ALS Bottle#: | 21 Worklist Smp#: 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 40 cis-1,2-Dichloroethene, CAS: 156-59-2

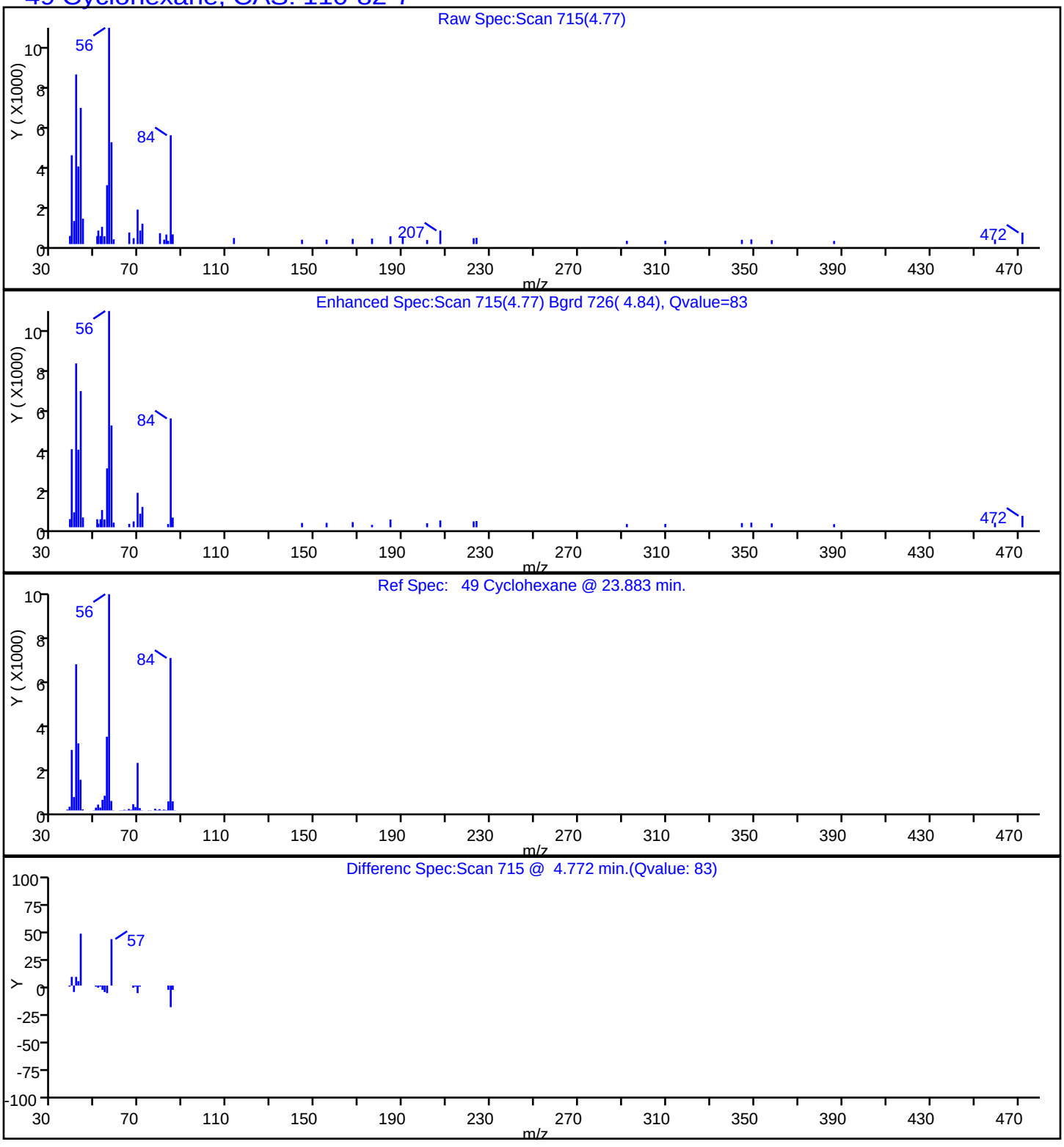


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | | |
| Client ID: | TWP-2 | | | | |
| Operator ID: | | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 49 Cyclohexane, CAS: 110-82-7

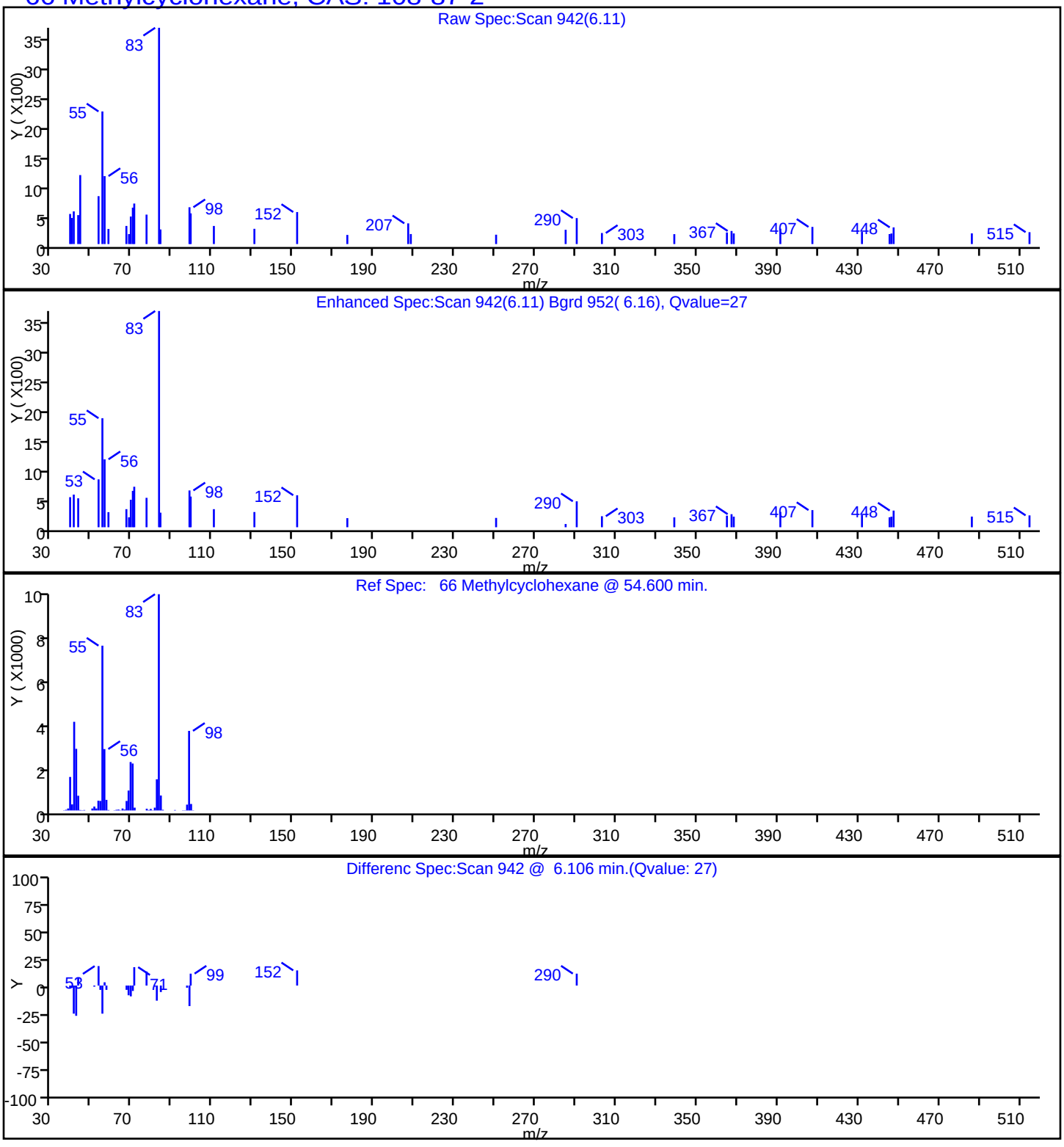


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | | |
| Client ID: | TWP-2 | | | | |
| Operator ID: | | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

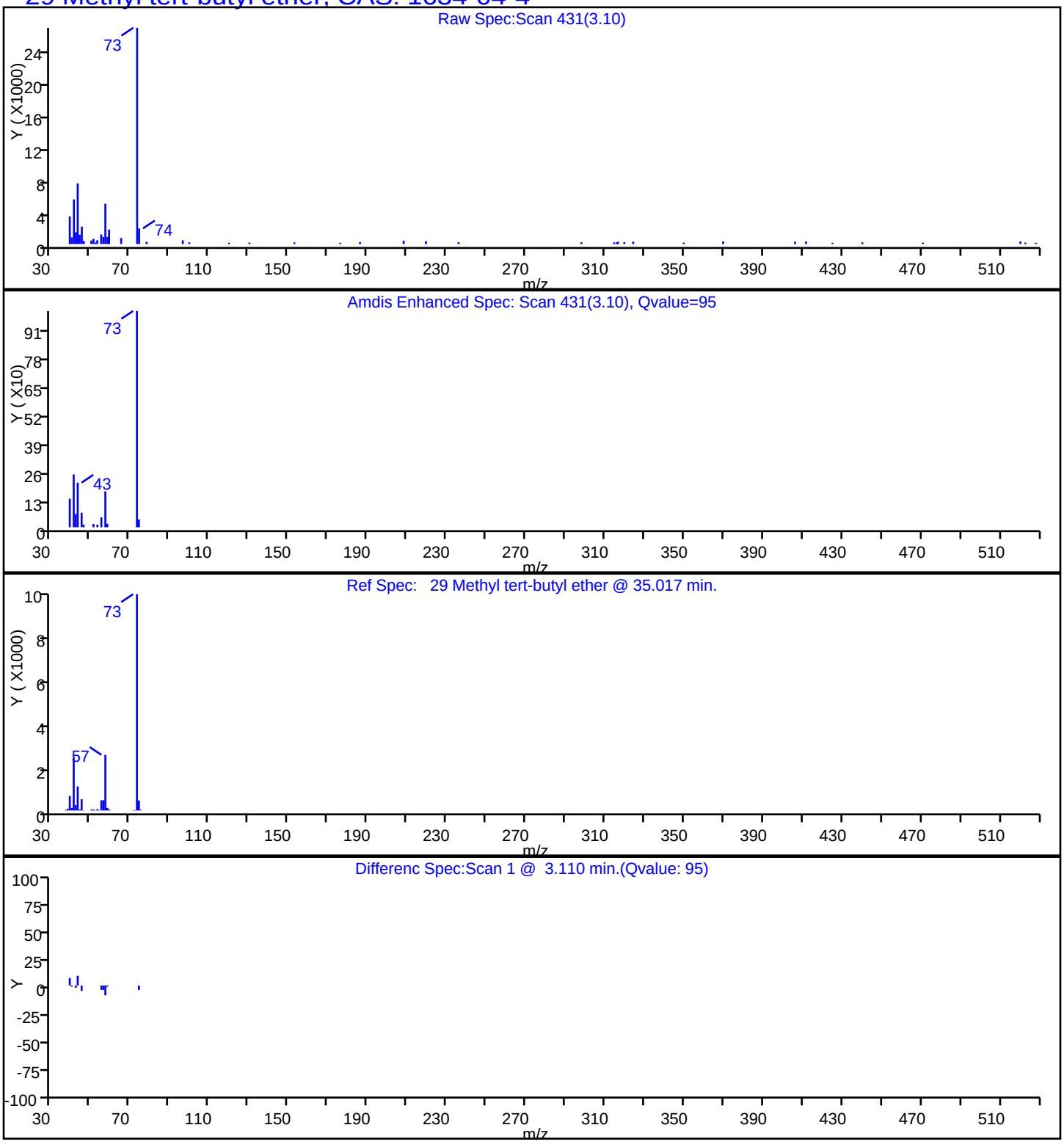
## 66 Methylcyclohexane, CAS: 108-87-2



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | | |
| Client ID: | TWP-2 | | | | |
| Operator ID: | | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

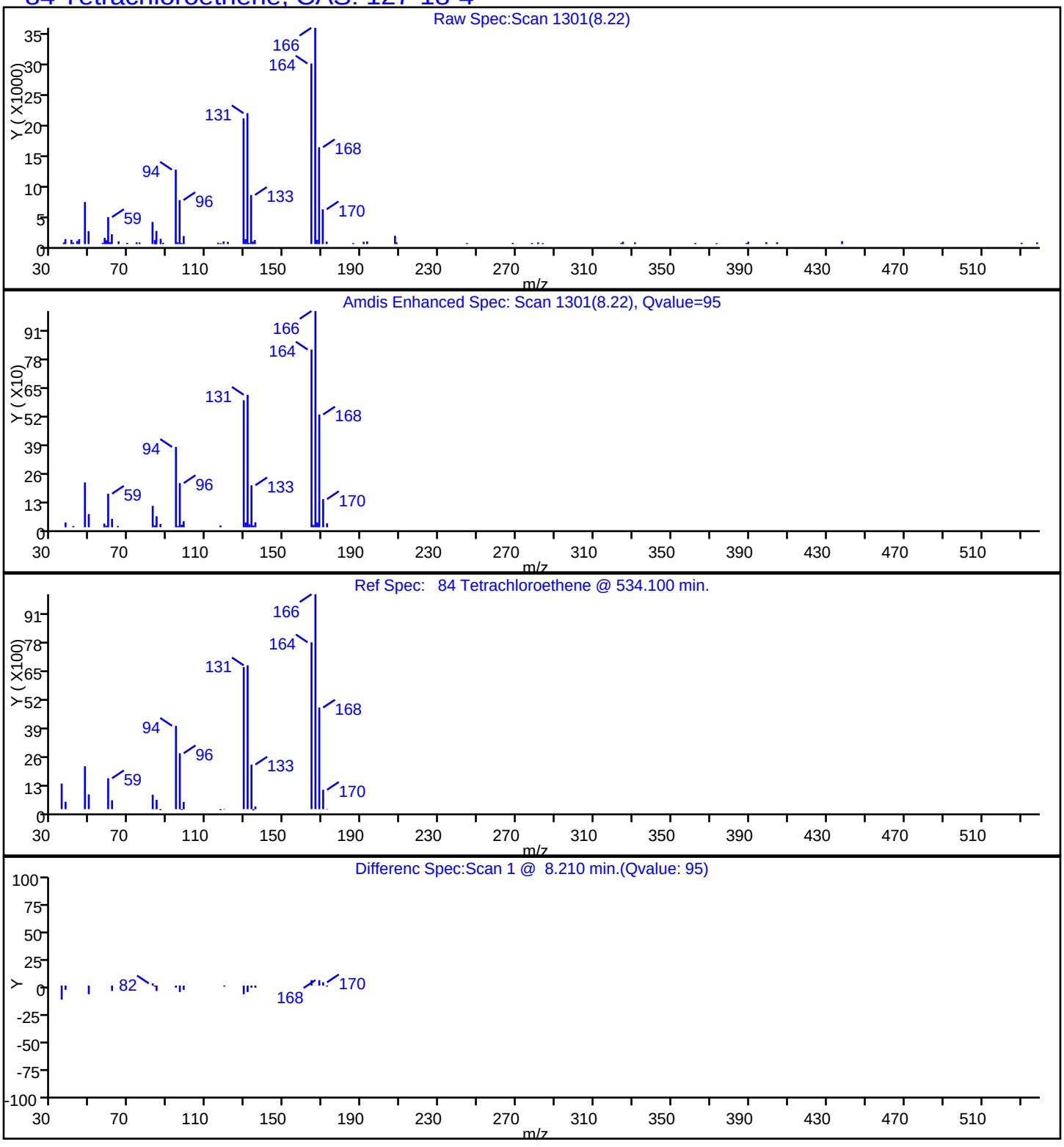
## 29 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Edison

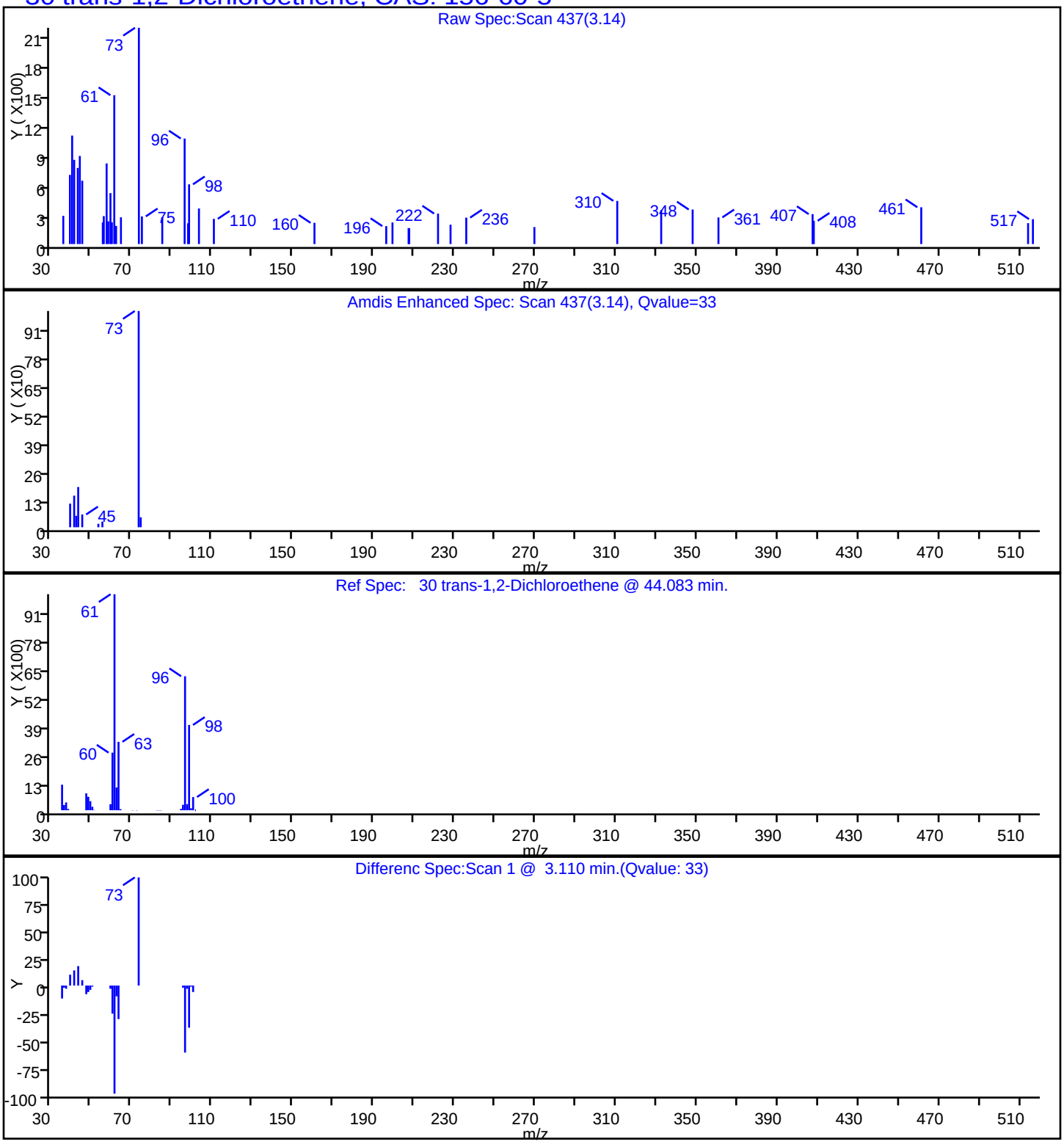
| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 |
| Client ID: | TWP-2 | | |
| Operator ID: | | ALS Bottle#: | 21 Worklist Smp#: 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 84 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D
Injection Date: 26-Apr-2016 06:52:30 Instrument ID: CVOAMS8
Lims ID: 460-112643-B-2 Lab Sample ID: 460-112643-2
Client ID: TWP-2
Operator ID: ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 ( 0.25 mm) Detector MS SCAN

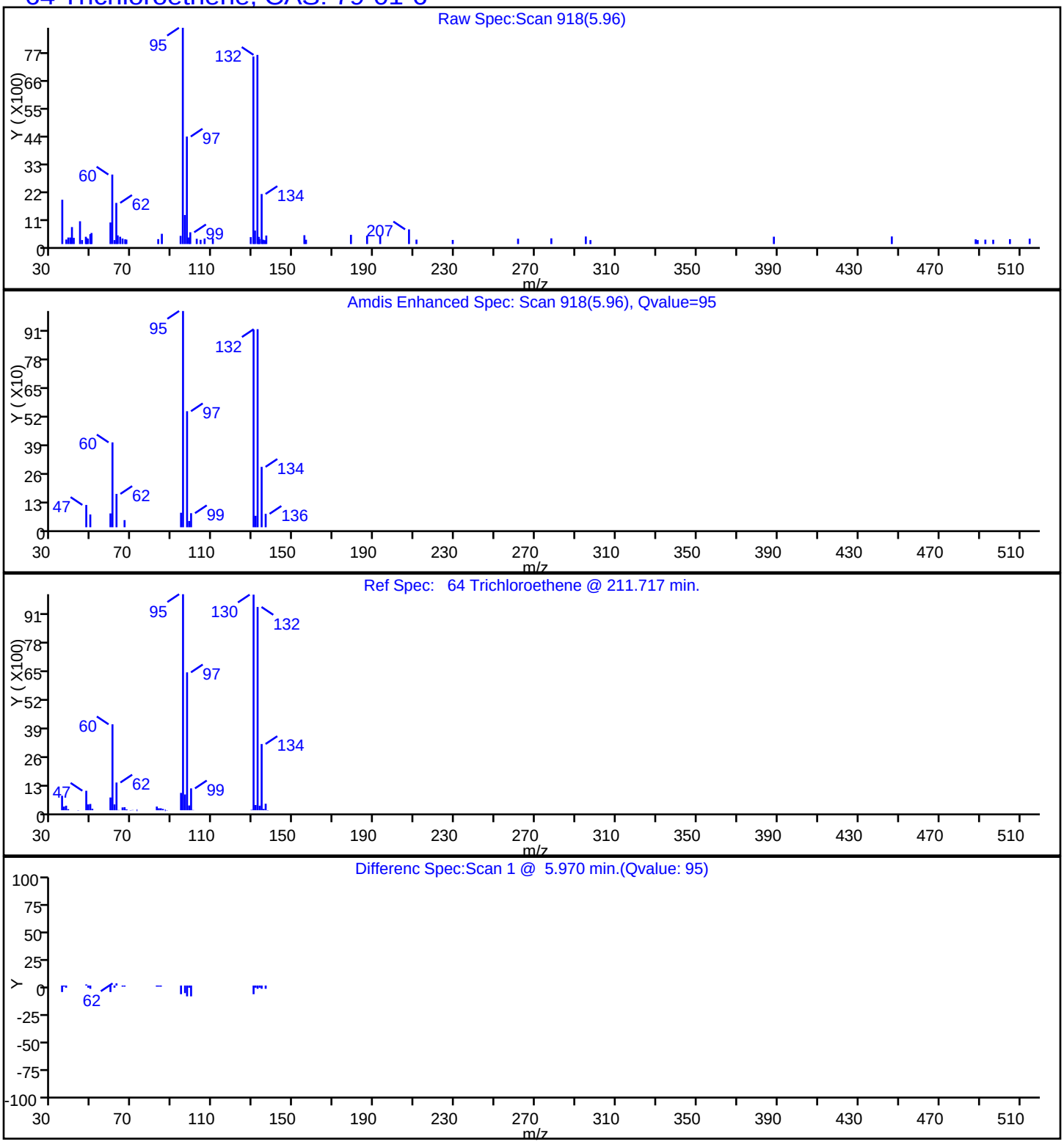
## 30 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 |
| Client ID: | TWP-2 | | |
| Operator ID: | | ALS Bottle#: | 21 Worklist Smp#: 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

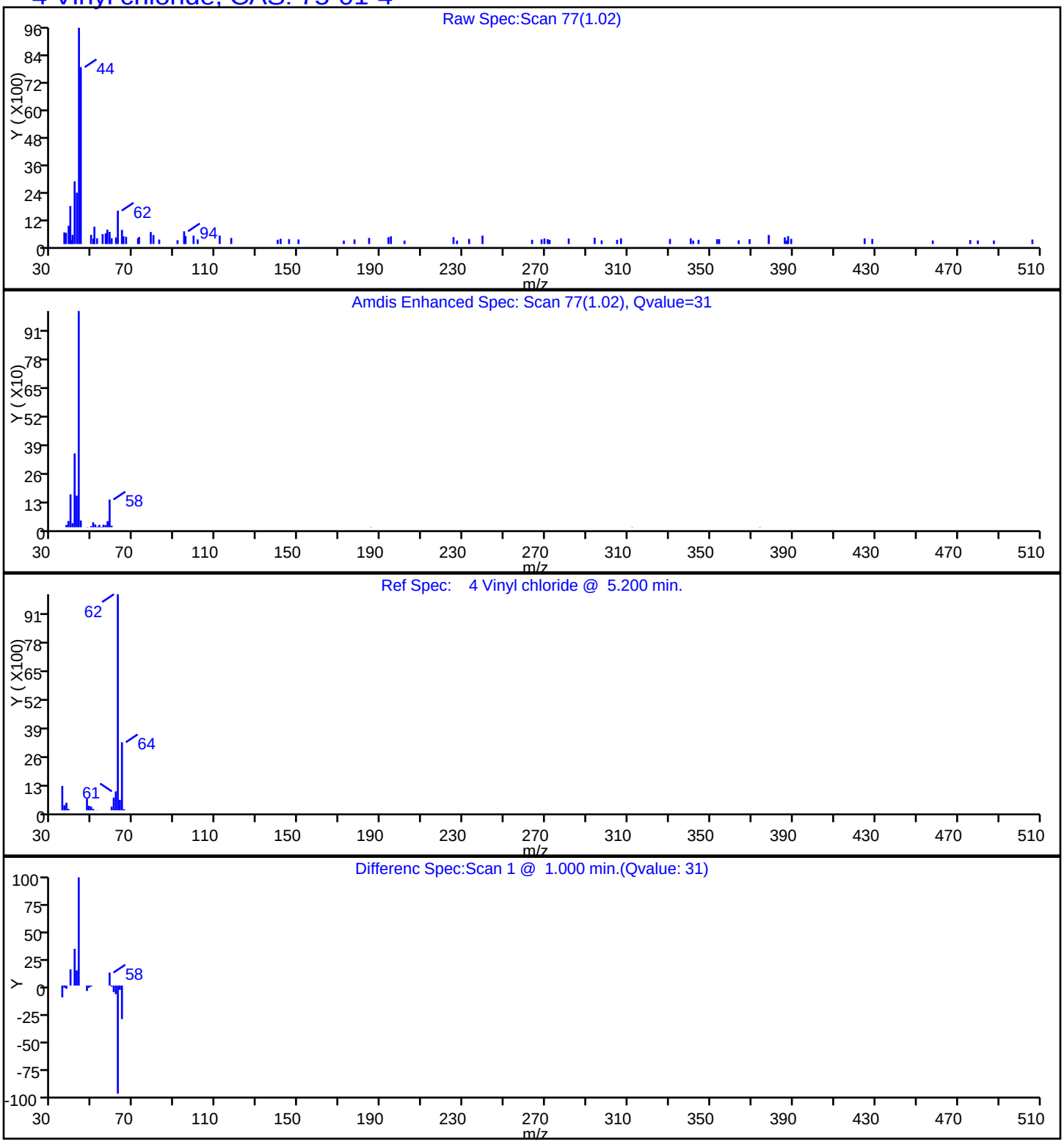
## 64 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 |
| Client ID: | TWP-2 | | |
| Operator ID: | | ALS Bottle#: | 21 Worklist Smp#: 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 4 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

TestAmerica Edison

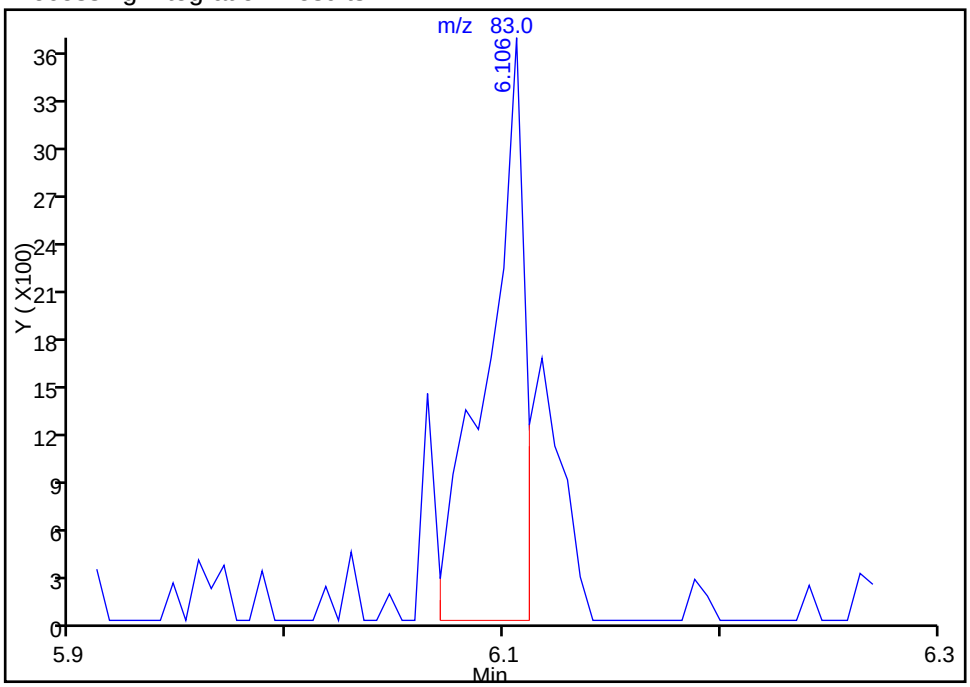
| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D | | |
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 |
| Client ID: | TWP-2 | | |
| Operator ID: | | ALS Bottle#: | 21 Worklist Smp#: 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 66 Methylcyclohexane, CAS: 108-87-2

Signal: 1

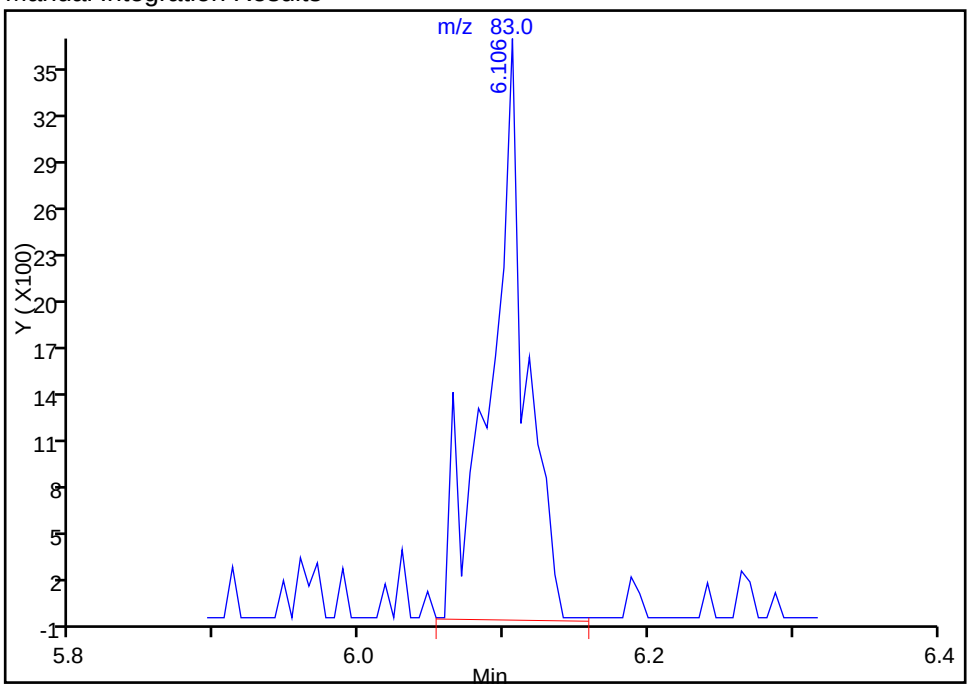
Processing Integration Results

RT: 6.11
Area: 4329
Amount: 0.724537
Amount Units: ug/l




Manual Integration Results

RT: 6.11
Area: 6280
Amount: 1.051073
Amount Units: ug/l




Reviewer: nimerd, 26-Apr-2016 09:39:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

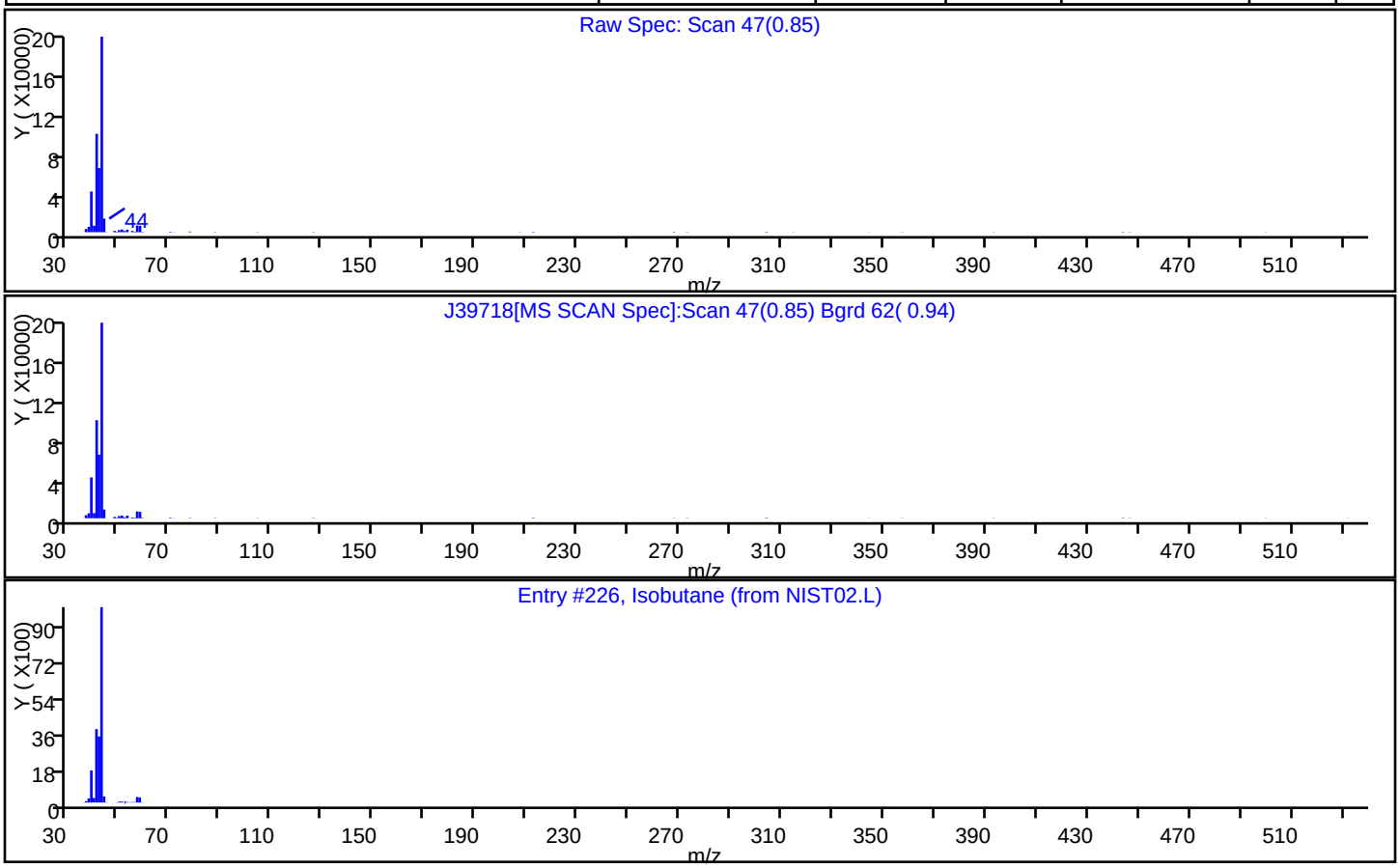
Report Date: 26-Apr-2016 10:48:58 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

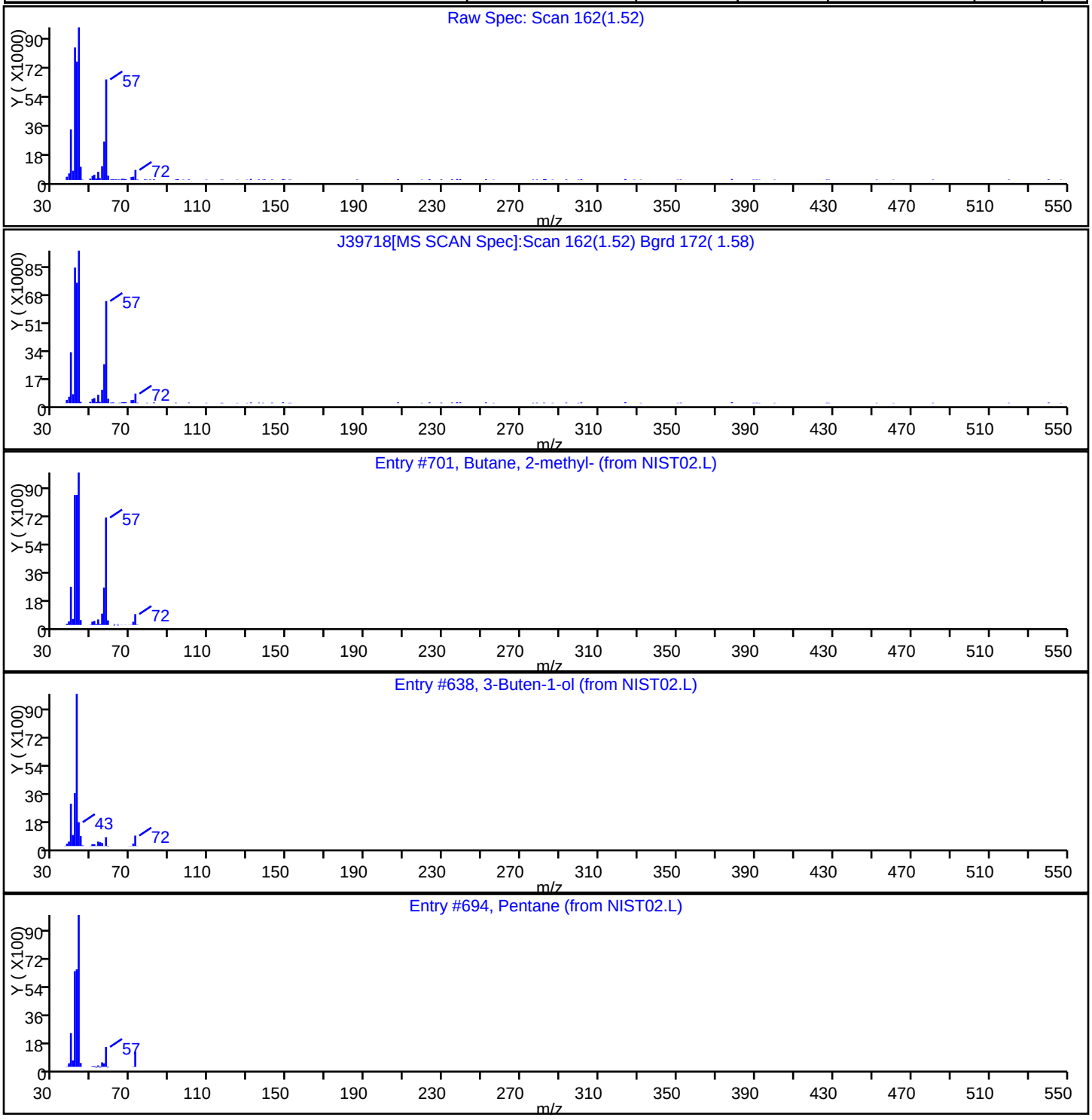
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | | |
| Client ID: | TWP-2 | | | | |
| Operator ID: | | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | | Detector | MS SCAN | | |

| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Isobutane | 75-28-5 | NIST02.L | 226 | C4H10 | 58 | 86 |



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D
Injection Date: 26-Apr-2016 06:52:30 Instrument ID: CVOAMS8
Lims ID: 460-112643-B-2 Lab Sample ID: 460-112643-2
Client ID: TWP-2
Operator ID: ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Detector MS SCAN

| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Butane, 2-methyl- | 78-78-4 | NIST02.L | 701 | C5H12 | 72 | 90 |
| 3-Buten-1-ol | 627-27-0 | NIST02.L | 638 | C4H8O | 72 | 43 |
| Pentane | 109-66-0 | NIST02.L | 694 | C5H12 | 72 | 39 |



Report Date: 26-Apr-2016 10:48:58 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

Injection Date: 26-Apr-2016 06:52:30 Instrument ID: CVOAMS8

Lims ID: 460-112643-B-2 Lab Sample ID: 460-112643-2

Client ID: TWP-2

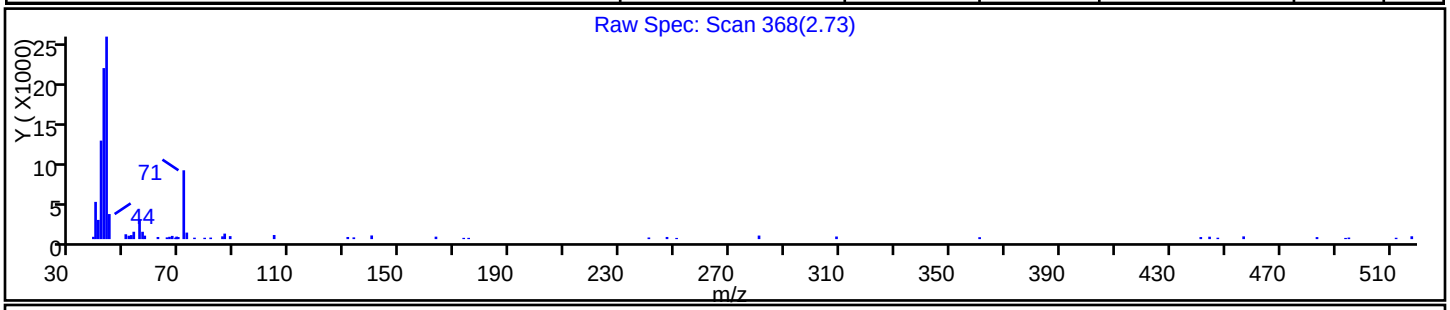
Operator ID: ALS Bottle#: 21 Worklist Smp#: 22

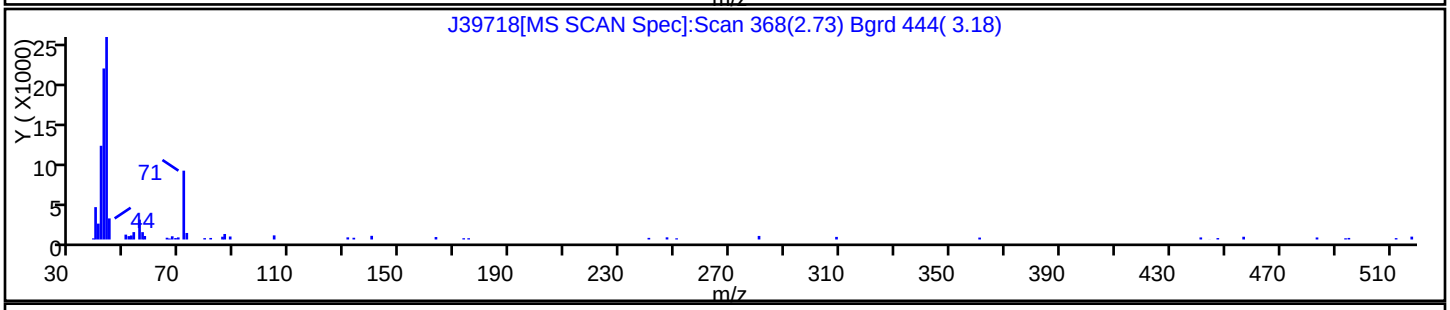
Purge Vol: 5.000 mL Dil. Factor: 1.0000

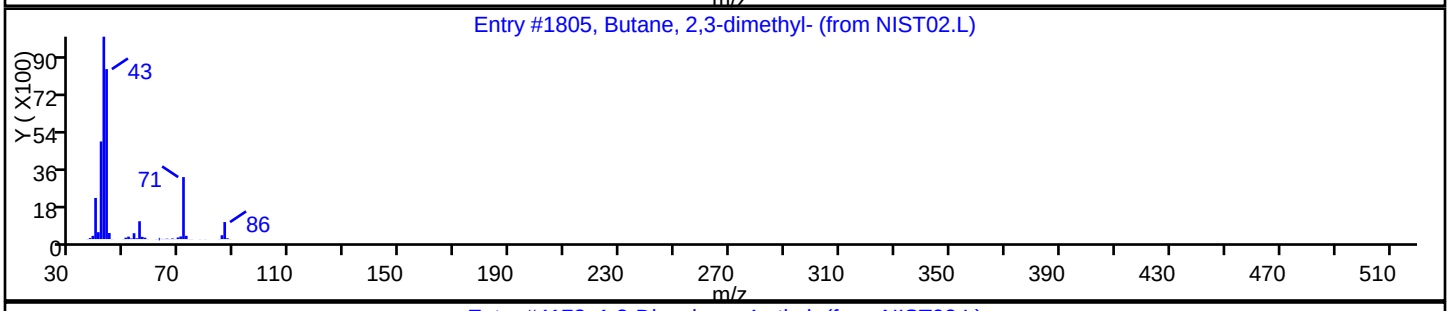
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

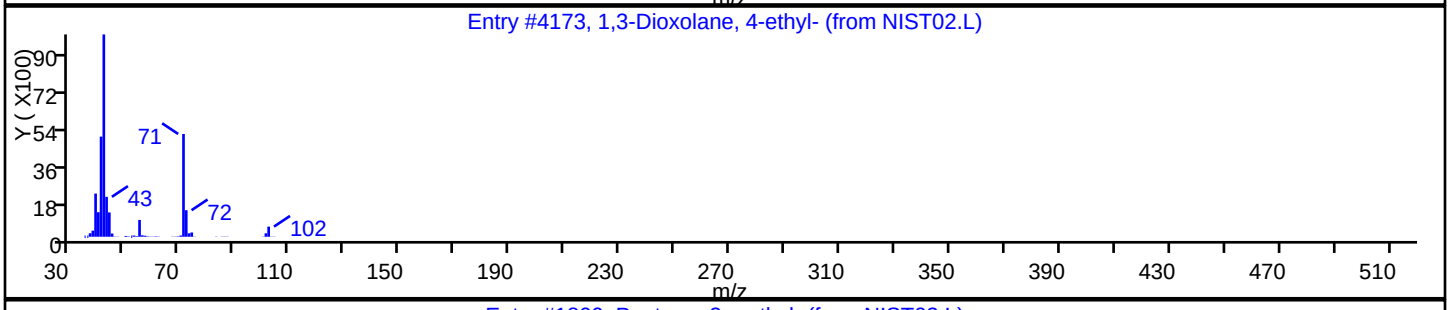
Column: Detector MS SCAN

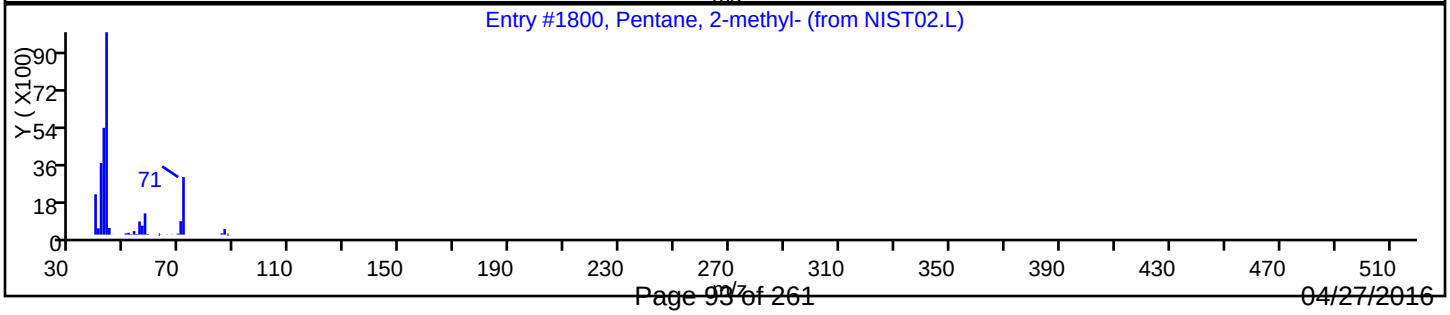
| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Unknown alkane | | | | | | |
| Butane, 2,3-dimethyl- | 79-29-8 | NIST02.L | 1805 | C6H14 | 86 | 72 |
| 1,3-Dioxolane, 4-ethyl- | 29921-38-8 | NIST02.L | 4173 | C5H10O2 | 102 | 39 |
| Pentane, 2-methyl- | 107-83-5 | NIST02.L | 1800 | C6H14 | 86 | 38 |



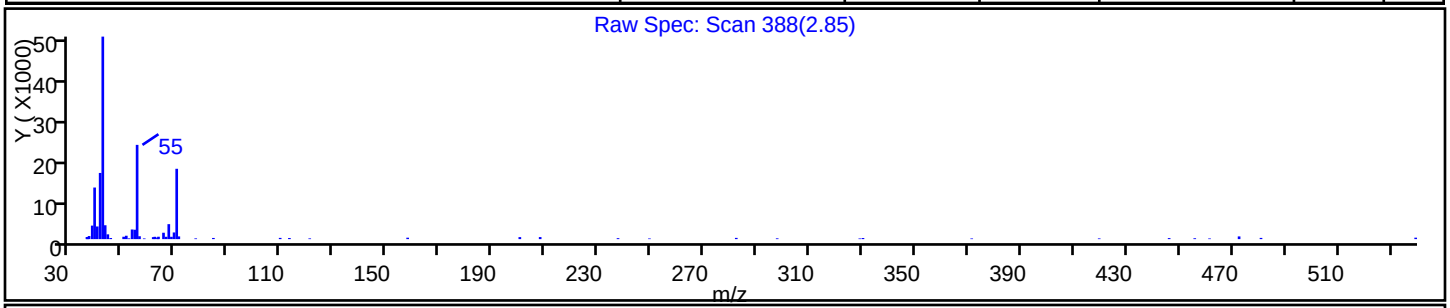
Report Date: 26-Apr-2016 10:48:58 Chrom Revision: 2.2 20-Apr-2016 13:59:46

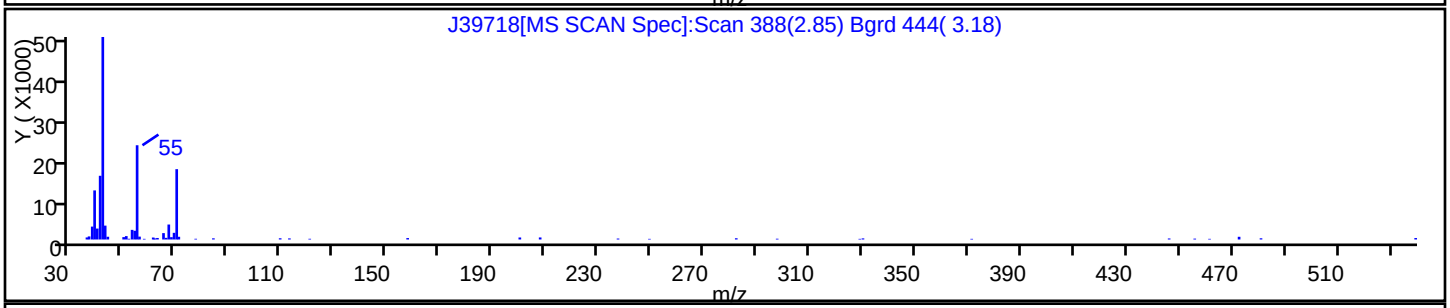
TestAmerica Edison

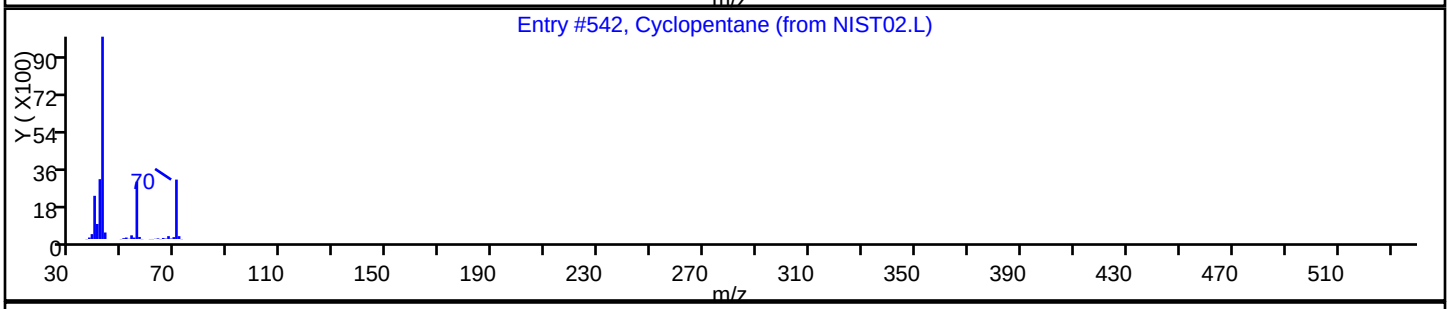
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

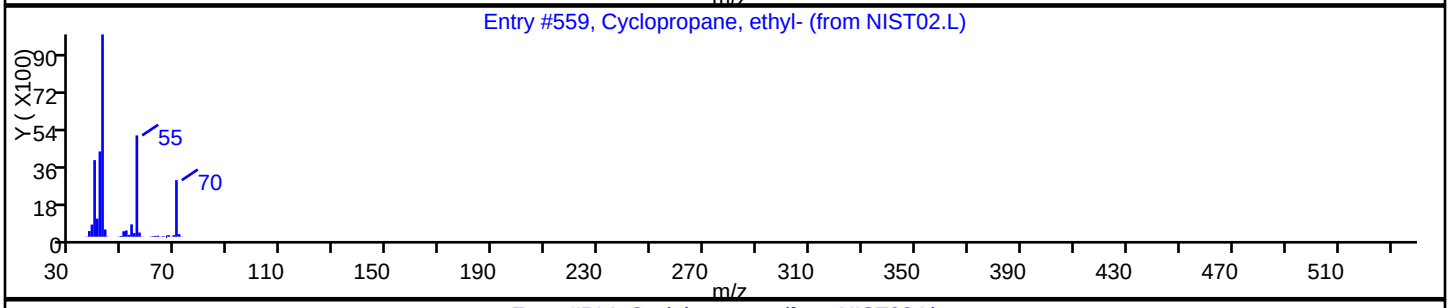
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | | |
| Client ID: | TWP-2 | | | | |
| Operator ID: | | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | | Detector | MS SCAN | | |

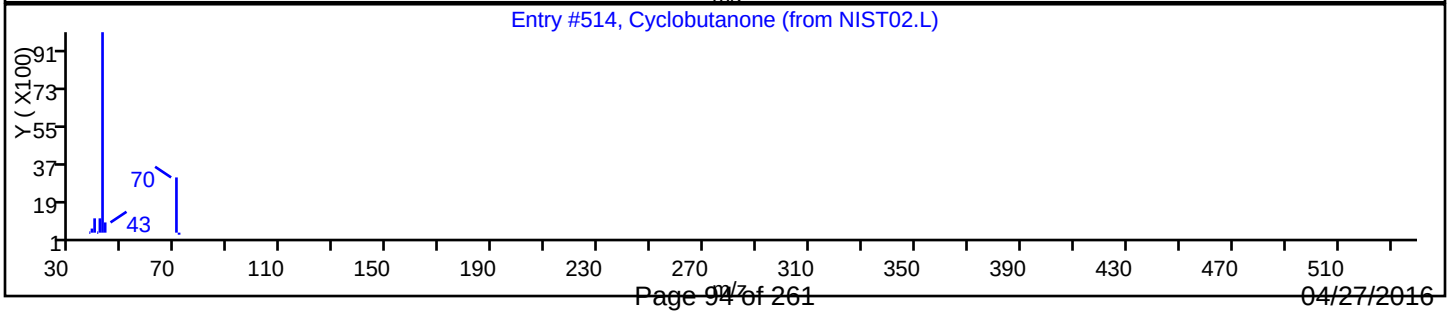
| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Unknown Cycloalkane | | | | | | |
| Cyclopentane | 287-92-3 | NIST02.L | 542 | C5H10 | 70 | 80 |
| Cyclopropane, ethyl- | 1191-96-4 | NIST02.L | 559 | C5H10 | 70 | 72 |
| Cyclobutanone | 1191-95-3 | NIST02.L | 514 | C4H6O | 70 | 64 |



Report Date: 26-Apr-2016 10:48:59 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

Injection Date: 26-Apr-2016 06:52:30 Instrument ID: CVOAMS8

Lims ID: 460-112643-B-2 Lab Sample ID: 460-112643-2

Client ID: TWP-2

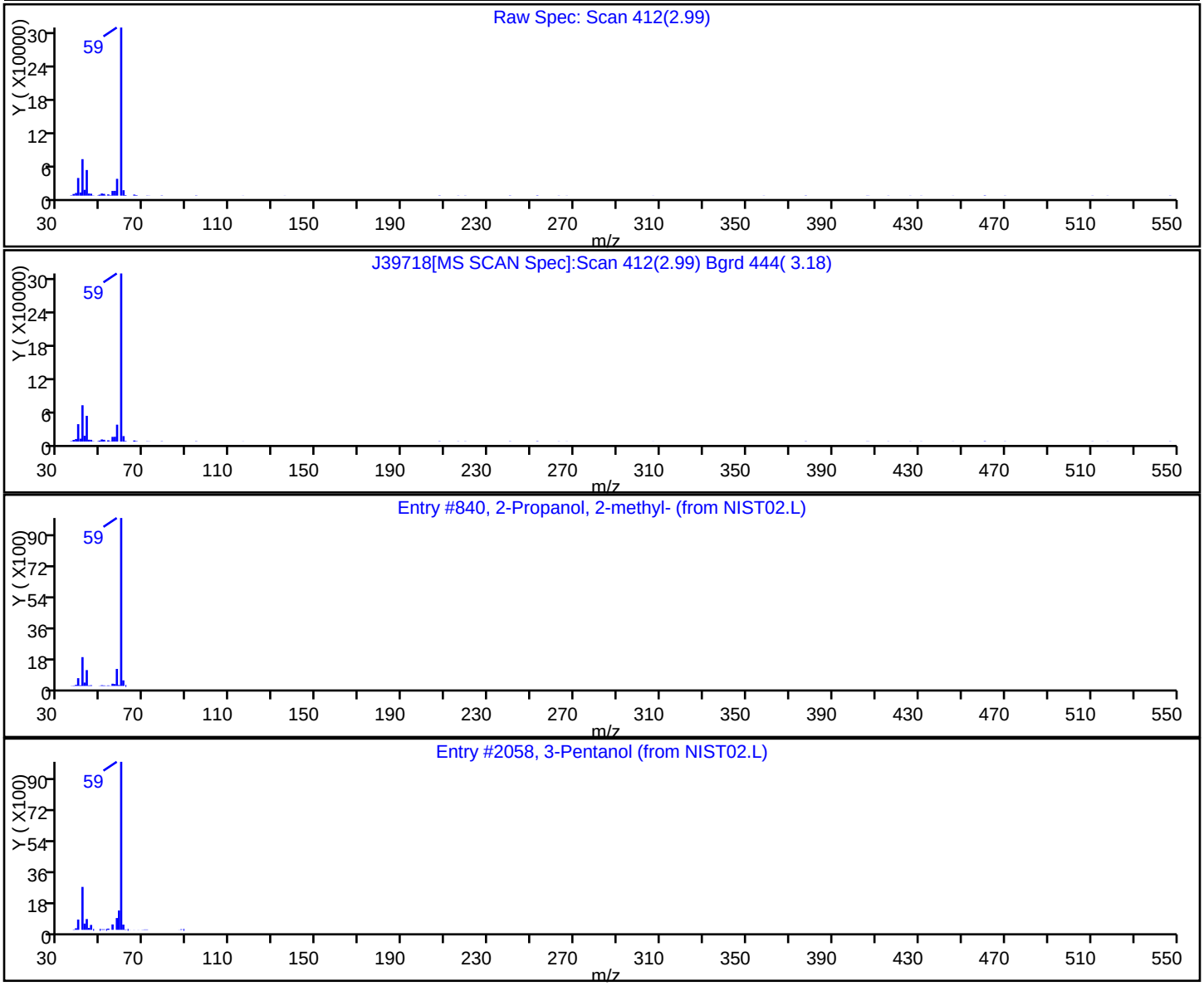
Operator ID: ALS Bottle#: 21 Worklist Smp#: 22

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Detector MS SCAN

| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| 2-Propanol, 2-methyl- | 75-65-0 | NIST02.L | 840 | C4H10O | 74 | 64 |
| 3-Pentanol | 584-02-1 | NIST02.L | 2058 | C5H12O | 88 | 56 |



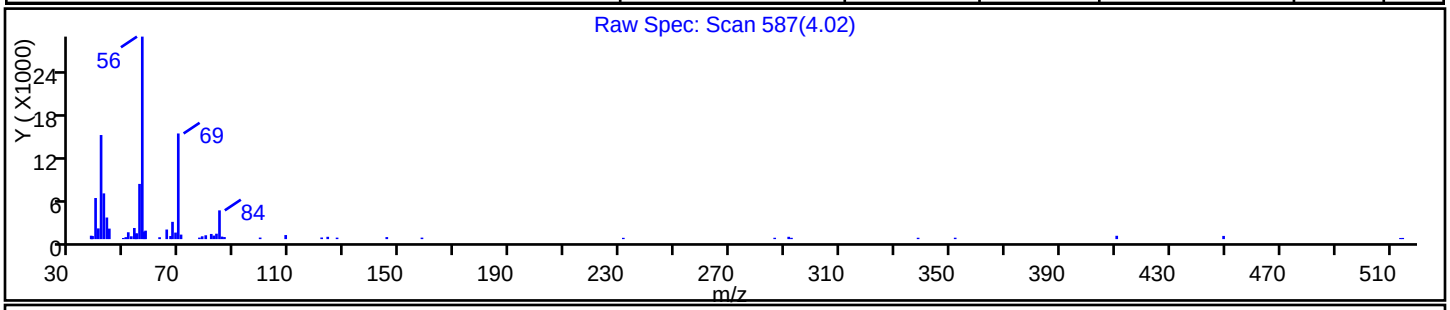
Report Date: 26-Apr-2016 10:48:59 Chrom Revision: 2.2 20-Apr-2016 13:59:46

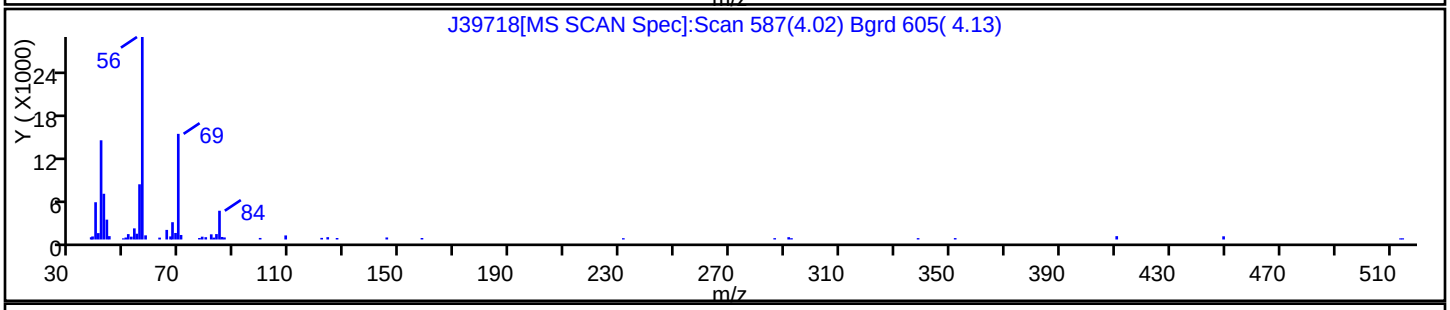
TestAmerica Edison

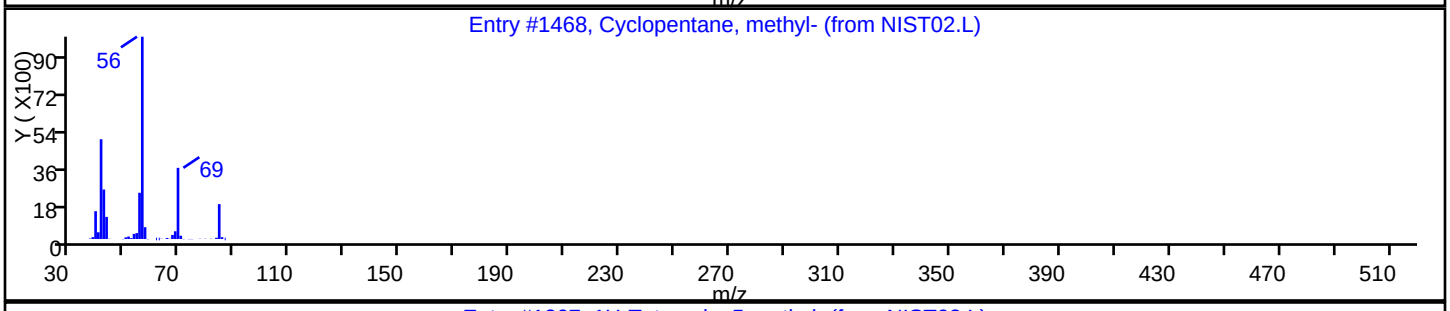
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39718.D

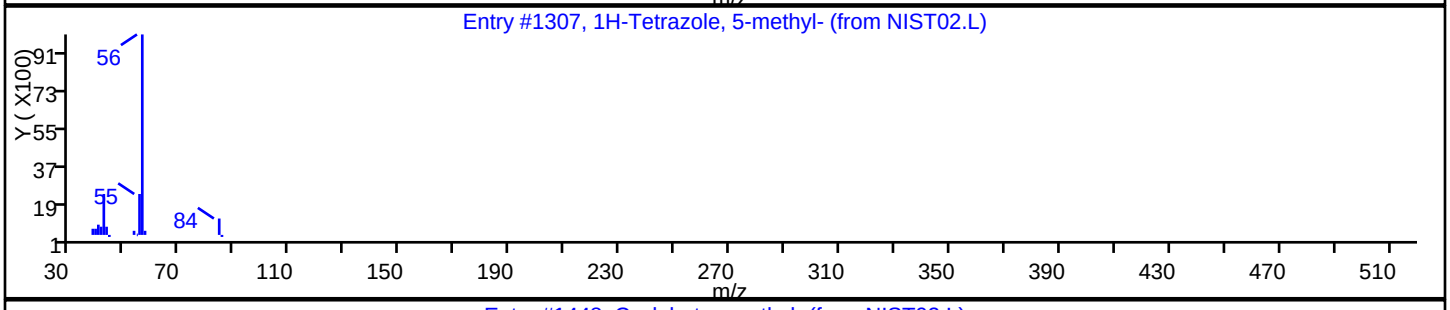
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 06:52:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-2 | Lab Sample ID: | 460-112643-2 | | |
| Client ID: | TWP-2 | | | | |
| Operator ID: | | ALS Bottle#: | 21 | Worklist Smp#: | 22 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | | Detector | MS SCAN | | |

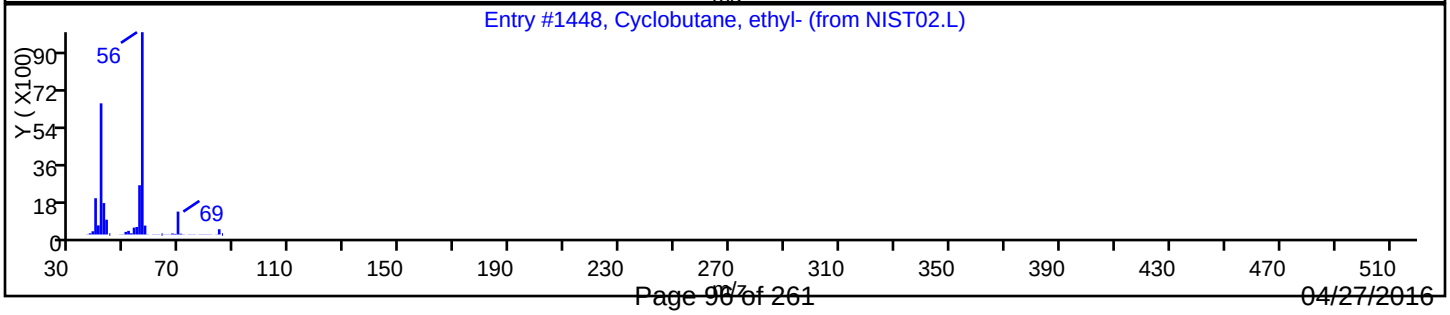
| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Unknown Cycloalkane | | | | | | |
| Cyclopentane, methyl- | 96-37-7 | NIST02.L | 1468 | C6H12 | 84 | 80 |
| 1H-Tetrazole, 5-methyl- | 4076-36-2 | NIST02.L | 1307 | C2H4N4 | 84 | 72 |
| Cyclobutane, ethyl- | 4806-61-5 | NIST02.L | 1448 | C6H12 | 84 | 64 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-3 | Lab Sample ID: 460-112643-3

Matrix: Water | Lab File ID: J39719.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:04

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 07:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.37 | J | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.090 | U | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.28 | J | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.69 | J | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-3 | Lab Sample ID: 460-112643-3

Matrix: Water | Lab File ID: J39719.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:04

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 07:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.43 | J | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 12 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 2.0 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.060 | U | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 95 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-3  Lab Sample ID: 460-112643-3

Matrix: Water  Lab File ID: J39719.D

Analysis Method: 8260C  Date Collected: 04/22/2016 13:04

Sample wt/vol: 5(mL)  Date Analyzed: 04/26/2016 07:19

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: Rtx-624  ID: 0.25(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 364590  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D
Lims ID: 460-112643-B-3
Client ID: TWP-3
Sample Type: Client
Inject. Date: 26-Apr-2016 07:19:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-112643-B-3
Misc. Info.: 460-0040266-023
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:49:40 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: nimerd Date: 26-Apr-2016 09:39:54

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 26 TBA-d9 (IS) | 65 | 2.908 | 2.898 | 0.010 | 80 | 417061 | 1000.0 | |
| 29 Methyl tert-butyl ether | 73 | 3.108 | 3.098 | 0.010 | 83 | 7983 | 0.4330 | |
| * 38 2-Butanone-d5 | 46 | 4.260 | 4.244 | 0.016 | 86 | 516262 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.289 | 4.279 | 0.010 | 86 | 5729 | 0.6908 | |
| 48 Chloroform | 83 | 4.624 | 4.614 | 0.010 | 44 | 3318 | 0.2822 | |
| 50 1,1,1-Trichloroethane | 97 | 4.800 | 4.784 | 0.016 | 35 | 3504 | 0.3670 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.824 | 4.814 | 0.010 | 97 | 269175 | 50.8 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.241 | 5.231 | 0.010 | 97 | 319753 | 54.2 | |
| * 62 Fluorobenzene | 96 | 5.558 | 5.548 | 0.010 | 98 | 987605 | 50.0 | |
| 64 Trichloroethene | 95 | 5.969 | 5.954 | 0.015 | 93 | 14476 | 2.04 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.369 | 6.359 | 0.010 | 90 | 61870 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.468 | 7.452 | 0.016 | 99 | 1059568 | 50.1 | |
| 84 Tetrachloroethene | 166 | 8.214 | 8.204 | 0.010 | 96 | 87448 | 11.9 | |
| * 90 Chlorobenzene-d5 | 117 | 9.389 | 9.379 | 0.010 | 85 | 870278 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.558 | 10.554 | 0.004 | 96 | 359191 | 47.3 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.428 | 11.418 | 0.010 | 95 | 511826 | 50.0 | |

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

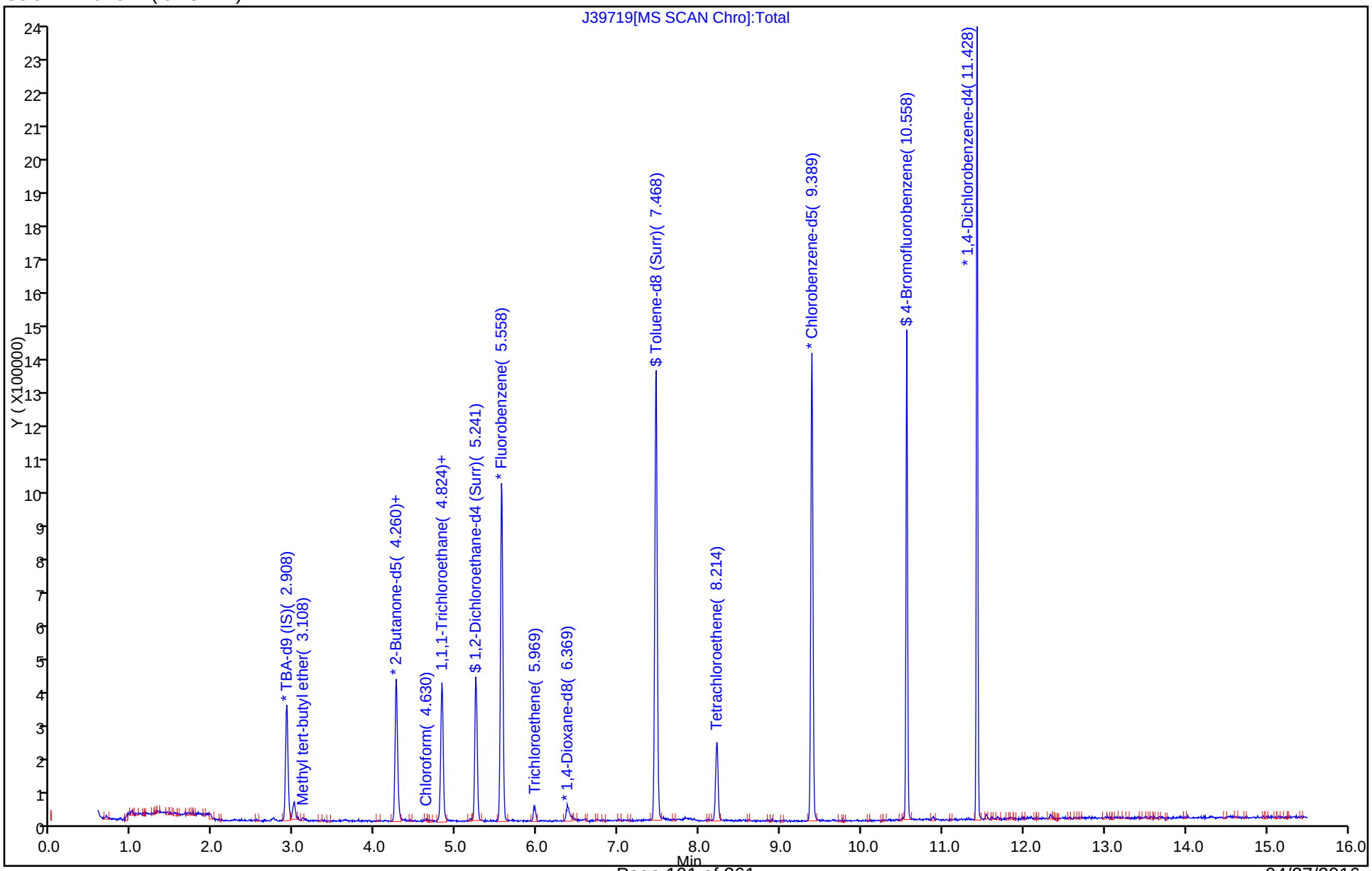
Report Date: 26-Apr-2016 10:49:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 | Worklist Smp#: | 23 |
| Client ID: | TWP-3 | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 22 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

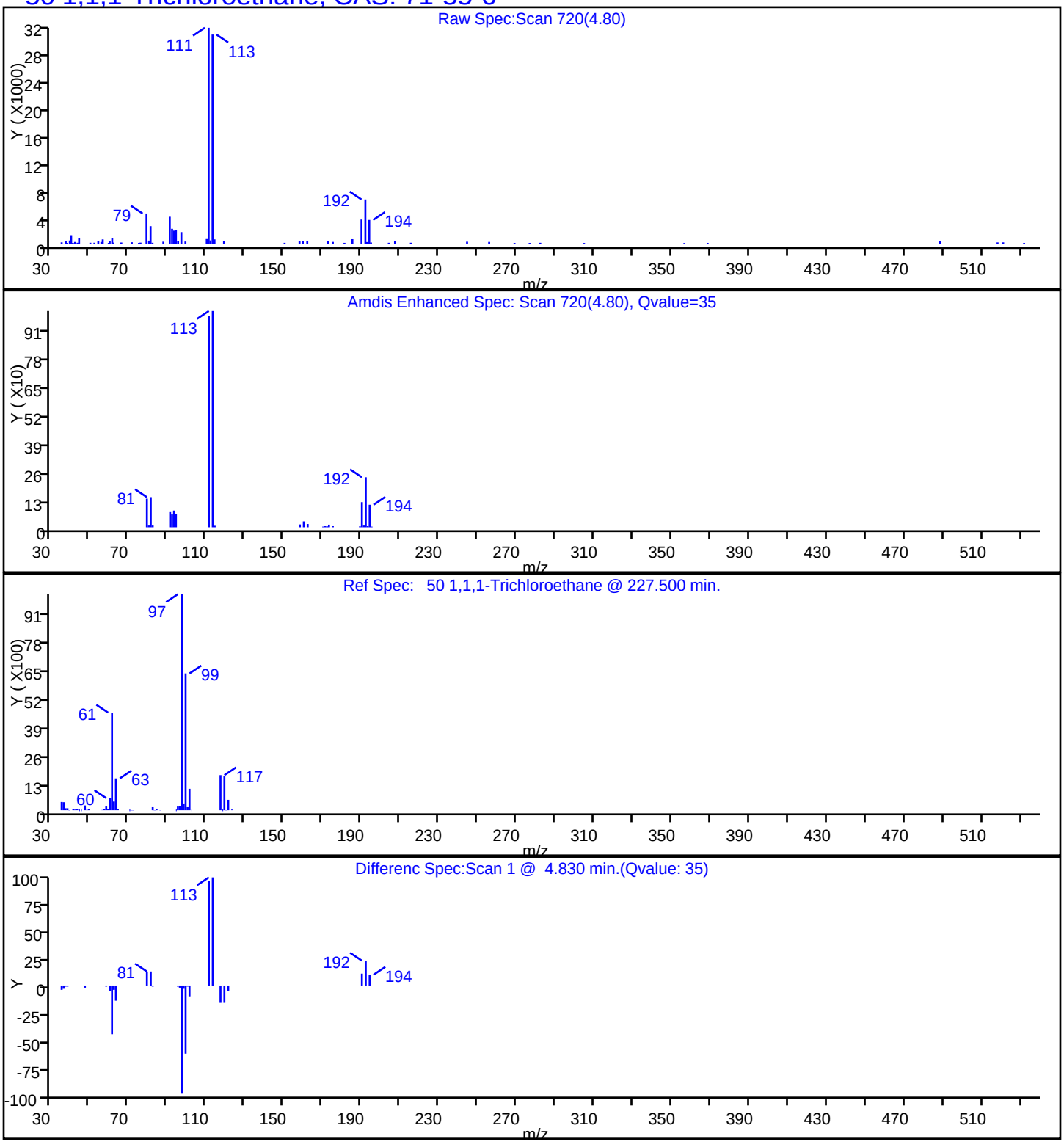
Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D | | | | |
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 | | |
| Client ID: | TWP-3 | | | | |
| Operator ID: | | ALS Bottle#: | 22 | Worklist Smp#: | 23 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

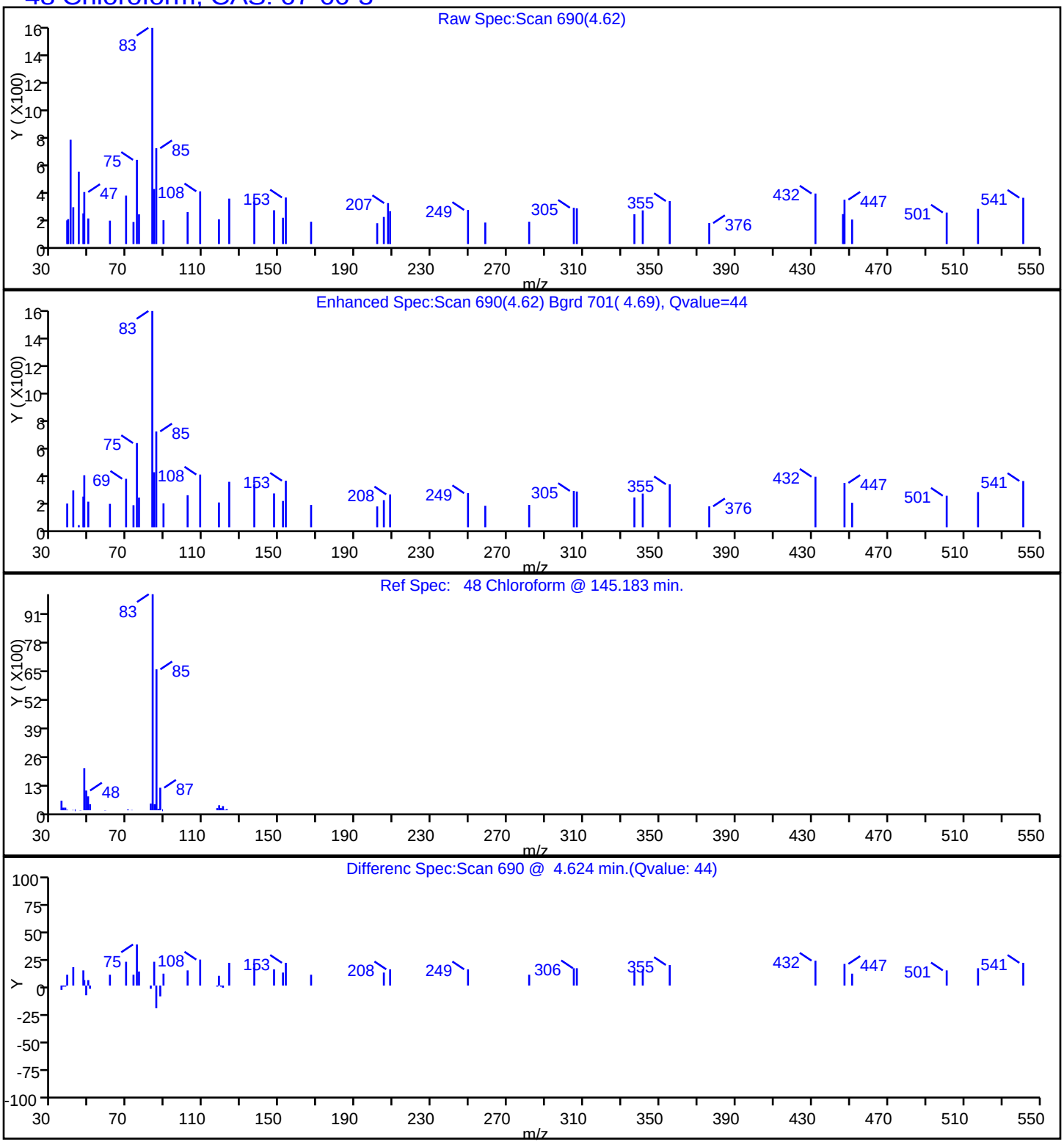
## 50 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D | | |
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 |
| Client ID: | TWP-3 | | |
| Operator ID: | | ALS Bottle#: | 22 Worklist Smp#: 23 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 48 Chloroform, CAS: 67-66-3



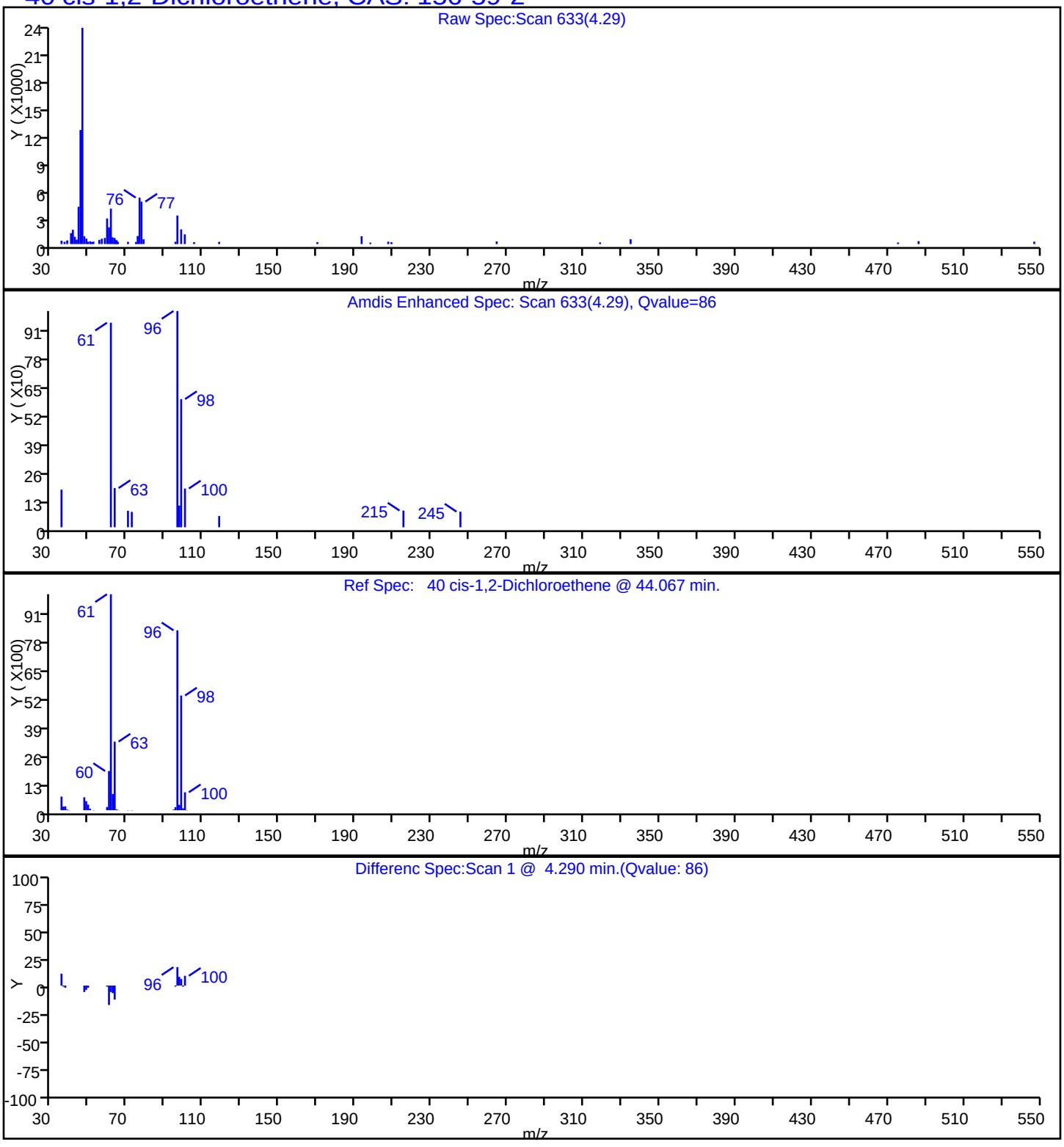
Report Date: 26-Apr-2016 10:49:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 | | |
| Client ID: | TWP-3 | | | | |
| Operator ID: | | ALS Bottle#: | 22 | Worklist Smp#: | 23 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

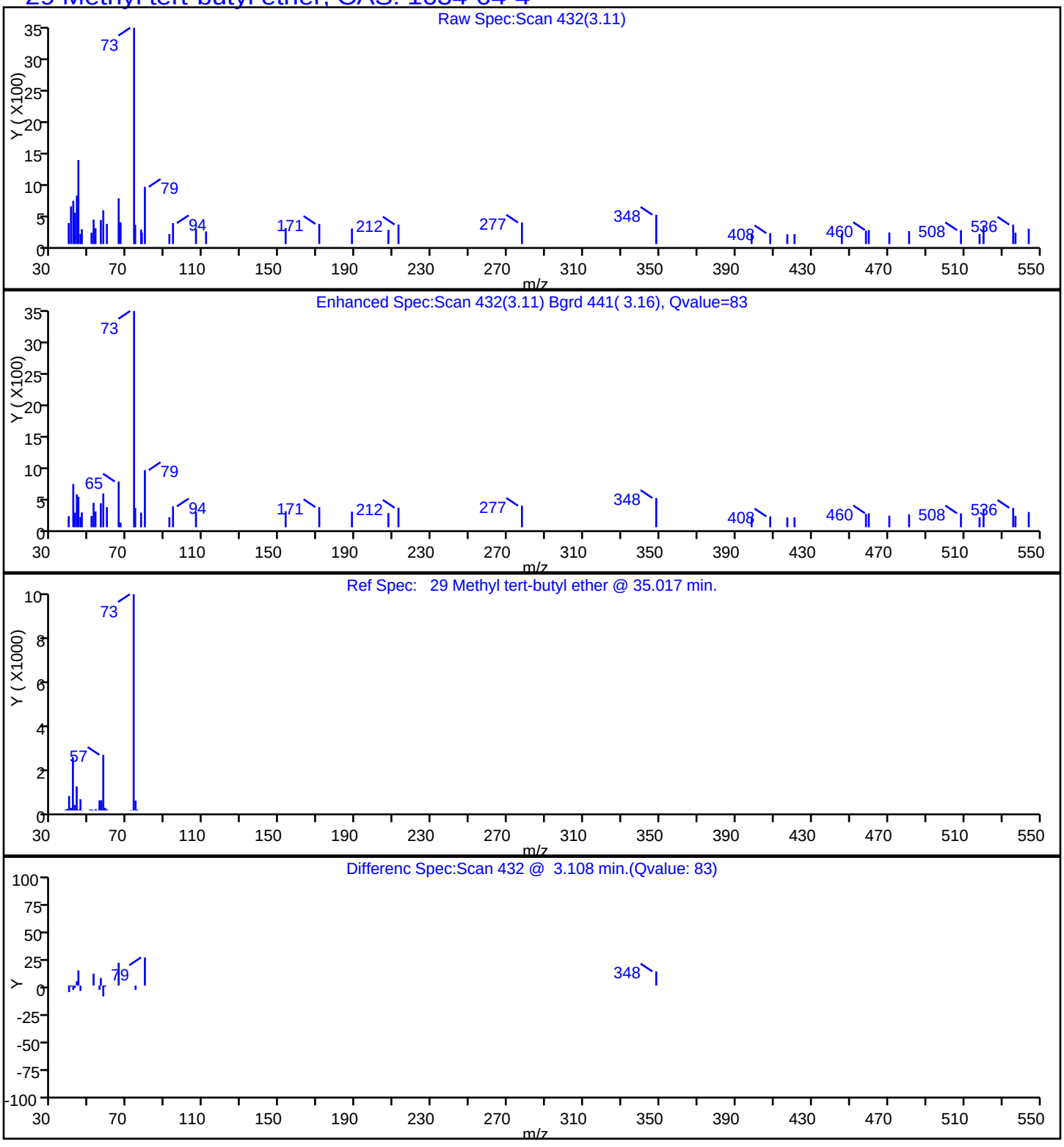
## 40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D | | |
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 |
| Client ID: | TWP-3 | | |
| Operator ID: | | ALS Bottle#: | 22 Worklist Smp#: 23 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

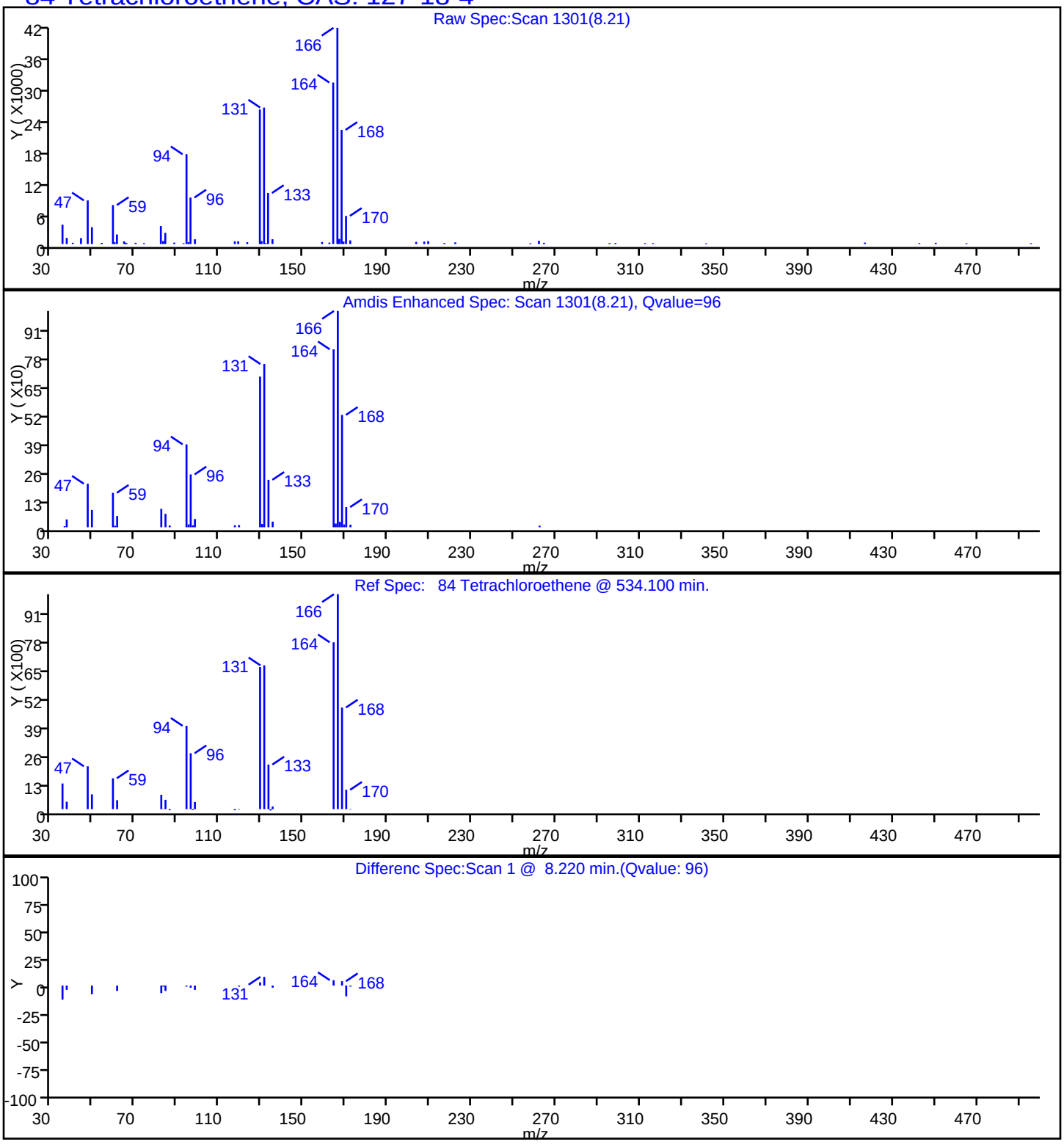
## 29 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Edison

| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D | | |
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 |
| Client ID: | TWP-3 | | |
| Operator ID: | | ALS Bottle#: | 22 Worklist Smp#: 23 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

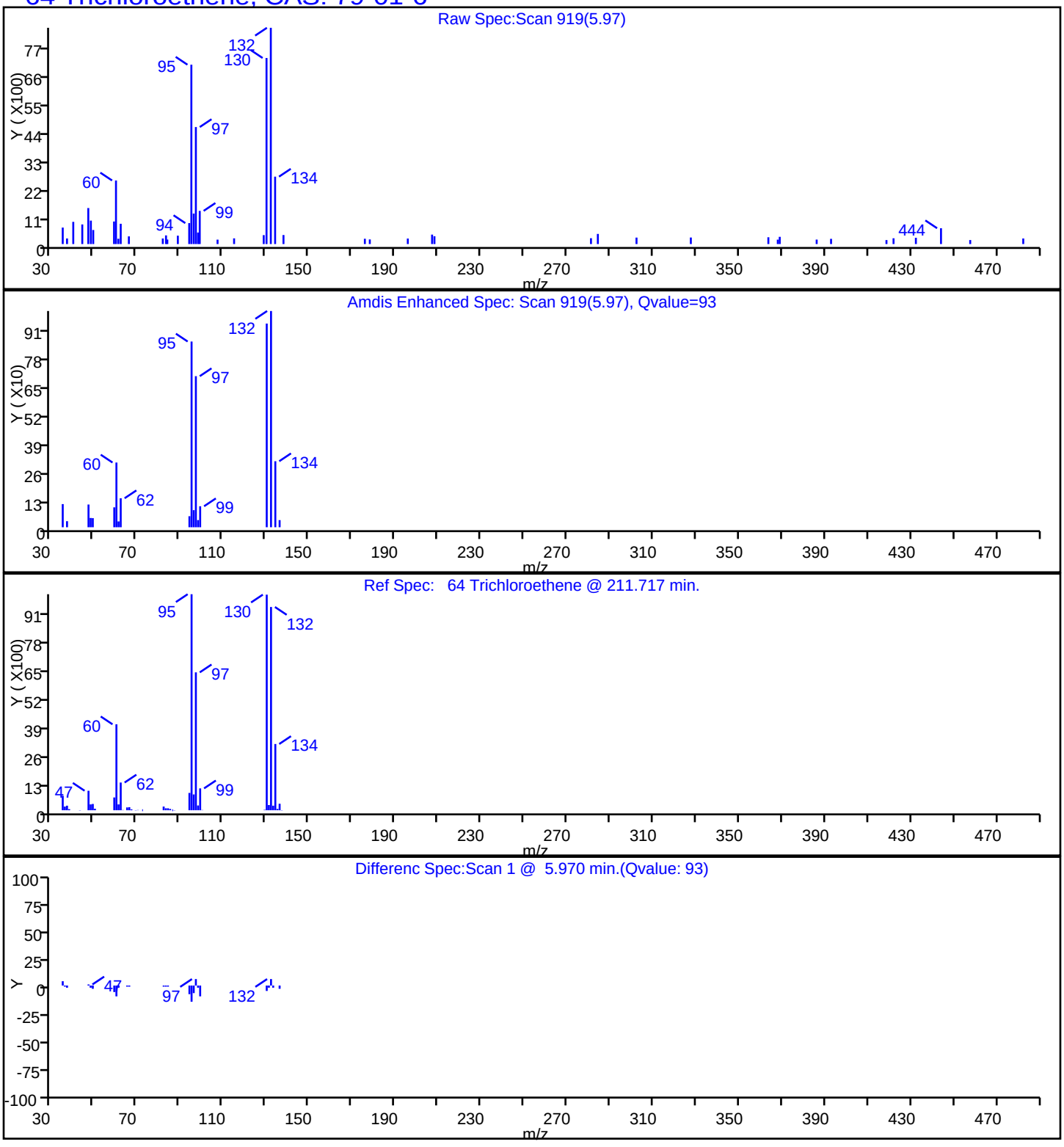
## 84 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39719.D

| | | | |
|---|---|---|---|
| Injection Date: | 26-Apr-2016 07:19:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-B-3 | Lab Sample ID: | 460-112643-3 |
| Client ID: | TWP-3 | | |
| Operator ID: | | ALS Bottle#: | 22 Worklist Smp#: 23 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 64 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-4 | Lab Sample ID: 460-112643-4

Matrix: Water | Lab File ID: J39731.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 12:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.090 | U | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.79 | J | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 3.2 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-4 | Lab Sample ID: 460-112643-4

Matrix: Water | Lab File ID: J39731.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 12:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.23 | J | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.13 | U | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 230 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 12 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.060 | U | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 113 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 93 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 103 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-4 | Lab Sample ID: 460-112643-4

Matrix: Water | Lab File ID: J39731.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 12:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

TestAmerica Edison
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D | | | | |
| Lims ID: | 460-112643-C-4 | | | | |
| Client ID: | TWP-4 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 26-Apr-2016 12:37:30 | ALS Bottle#: | 8 | Worklist Smp#: | 9 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Sample Info: | 460-112643-C-4 | | | | |
| Misc. Info.: | 460-0040302-009 | | | | |
| Operator ID: | | Instrument ID: | CVOAMS8 | | |
| Method: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m | | | | |
| Limit Group: | VOA - 8260C Water and Solid | | | | |
| Last Update: | 26-Apr-2016 13:14:47 | Calib Date: | 29-Mar-2016 08:09:30 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D | | | | |
| Column 1 : | Rtx-624 ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK022 | | | | |
| First Level Reviewer: delpolitov | | Date: | 26-Apr-2016 13:14:47 | | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 27 Methylene Chloride | 84 | 2.903 | 2.897 | 0.006 | 29 | 1630 | 0.2297 | |
| * 26 TBA-d9 (IS) | 65 | 2.915 | 2.903 | 0.012 | 80 | 446936 | 1000.0 | |
| * 38 2-Butanone-d5 | 46 | 4.260 | 4.254 | 0.006 | 86 | 532176 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.295 | 4.289 | 0.006 | 85 | 26209 | 3.25 | |
| 48 Chloroform | 83 | 4.648 | 4.630 | 0.018 | 95 | 9097 | 0.7946 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.830 | 4.824 | 0.006 | 98 | 264806 | 51.3 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.247 | 5.247 | 0.000 | 96 | 325742 | 56.7 | |
| * 62 Fluorobenzene | 96 | 5.565 | 5.558 | 0.007 | 99 | 961764 | 50.0 | |
| 64 Trichloroethene | 95 | 5.976 | 5.964 | 0.012 | 96 | 83321 | 12.0 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.381 | 6.375 | 0.006 | 91 | 60391 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.474 | 7.462 | 0.012 | 100 | 1060055 | 49.8 | |
| 84 Tetrachloroethene | 166 | 8.220 | 8.214 | 0.006 | 98 | 1710025 | 230.3 | |
| * 90 Chlorobenzene-d5 | 117 | 9.395 | 9.389 | 0.006 | 85 | 876440 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.565 | 10.558 | 0.007 | 96 | 353780 | 46.3 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.434 | 11.428 | 0.006 | 94 | 505414 | 50.0 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

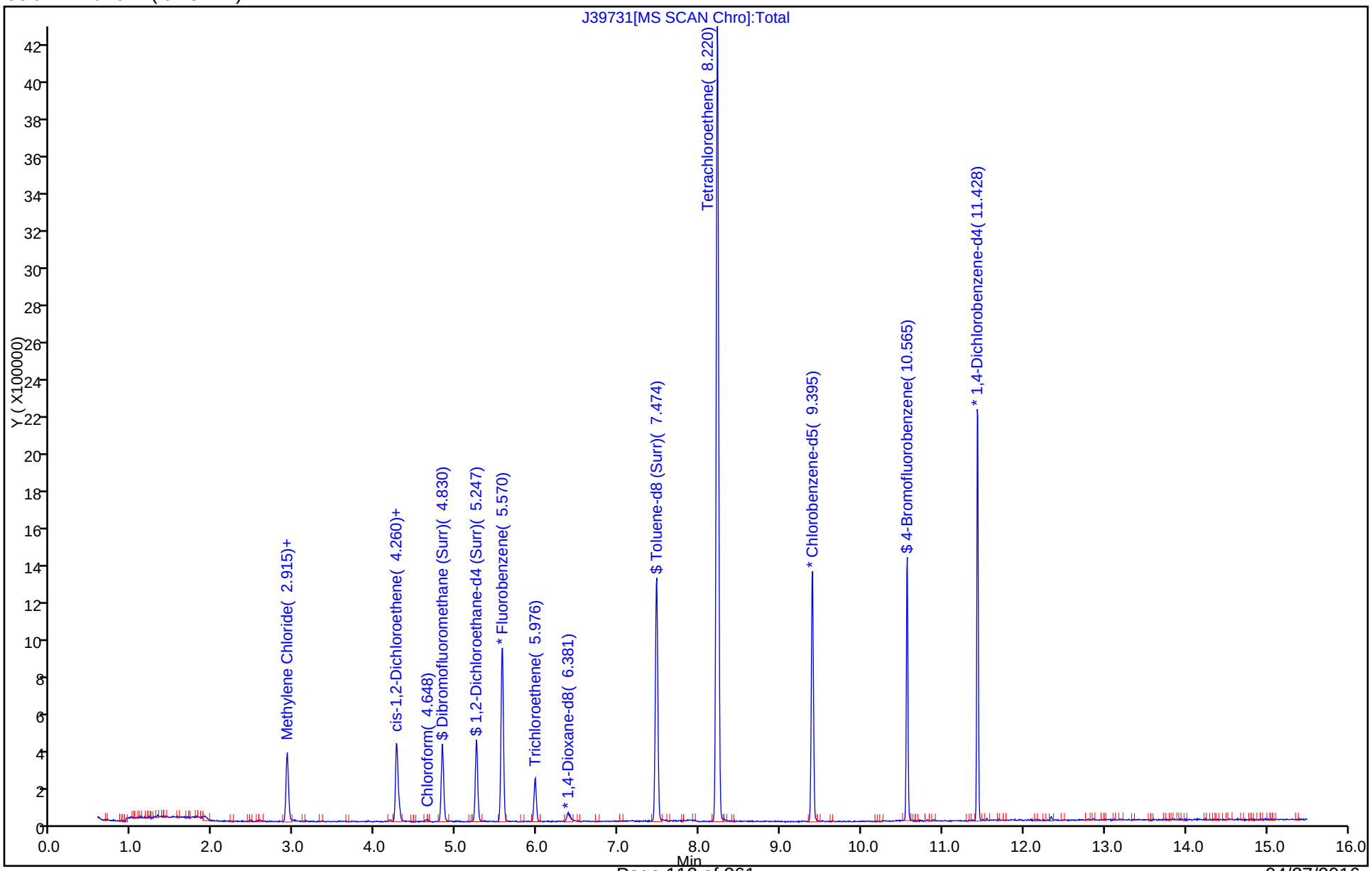
Report Date: 26-Apr-2016 13:14:48 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 12:37:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | 460-112643-C-4 | Lab Sample ID: | 460-112643-4 | Worklist Smp#: | 9 |
| Client ID: | TWP-4 | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 8 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)

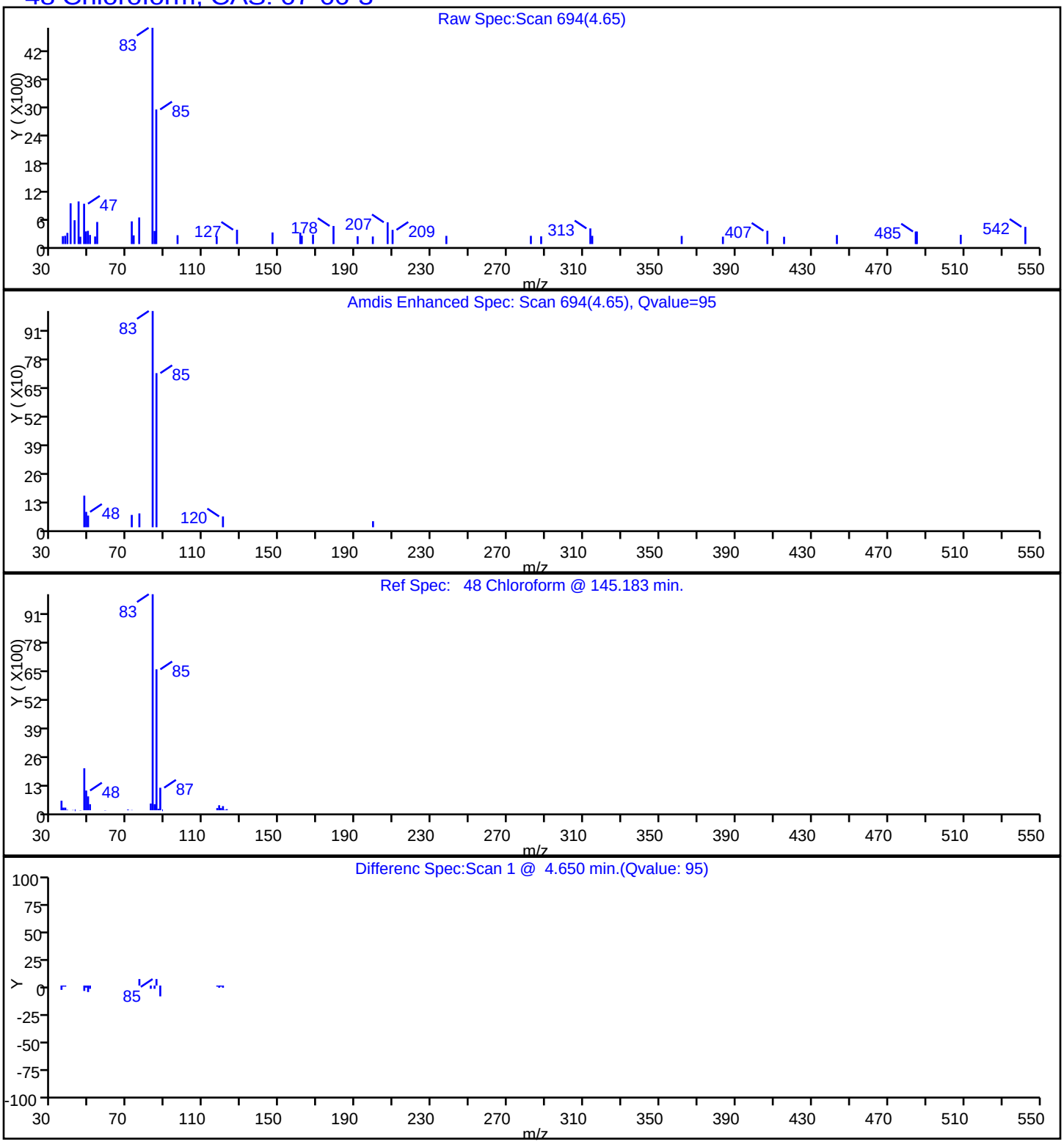


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 12:37:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-4 | Lab Sample ID: | 460-112643-4 | | |
| Client ID: | TWP-4 | | | | |
| Operator ID: | | ALS Bottle#: | 8 | Worklist Smp#: | 9 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

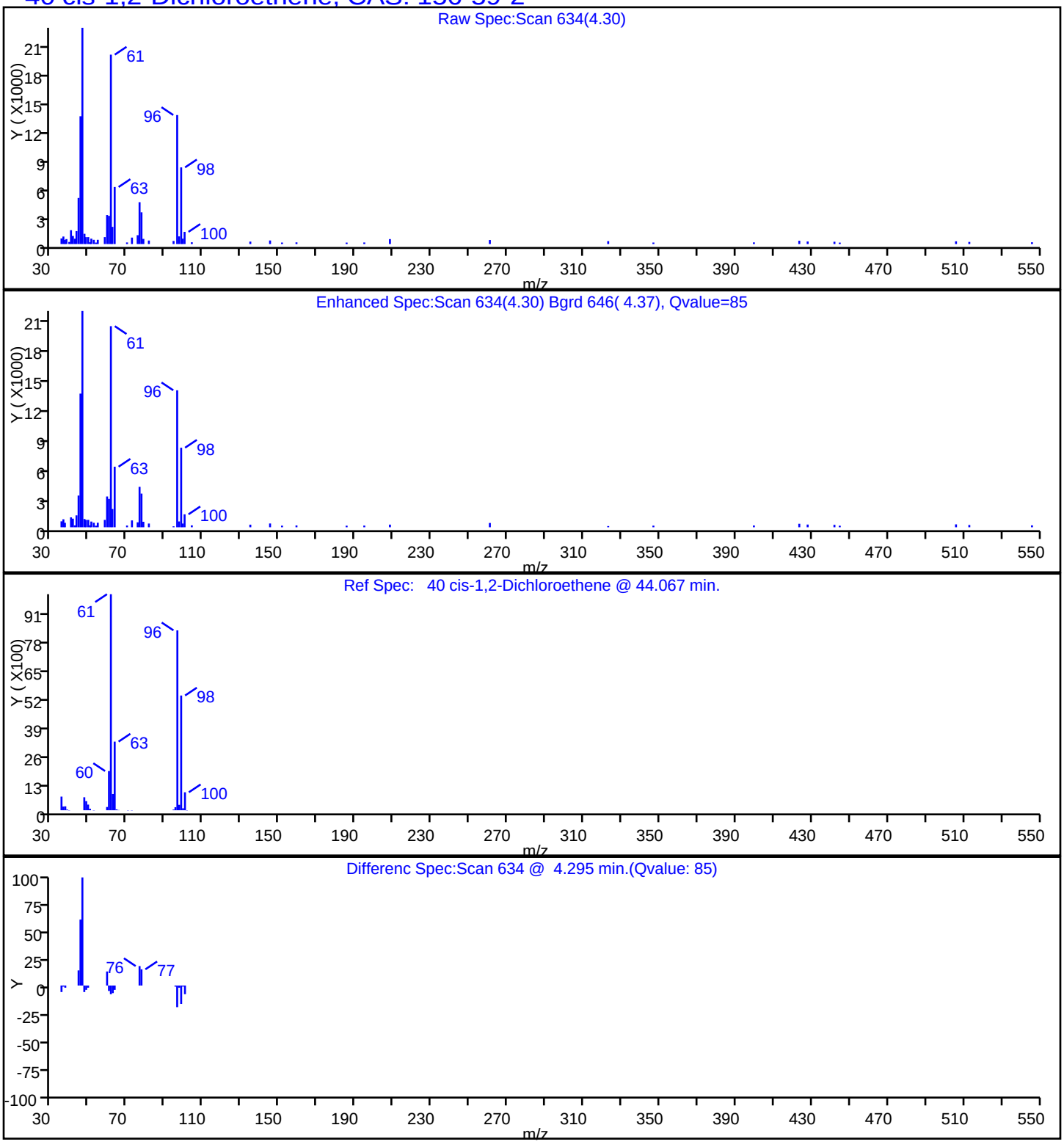
## 48 Chloroform, CAS: 67-66-3



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D | | | | |
| Injection Date: | 26-Apr-2016 12:37:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-4 | Lab Sample ID: | 460-112643-4 | | |
| Client ID: | TWP-4 | | | | |
| Operator ID: | | ALS Bottle#: | 8 | Worklist Smp#: | 9 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 40 cis-1,2-Dichloroethene, CAS: 156-59-2

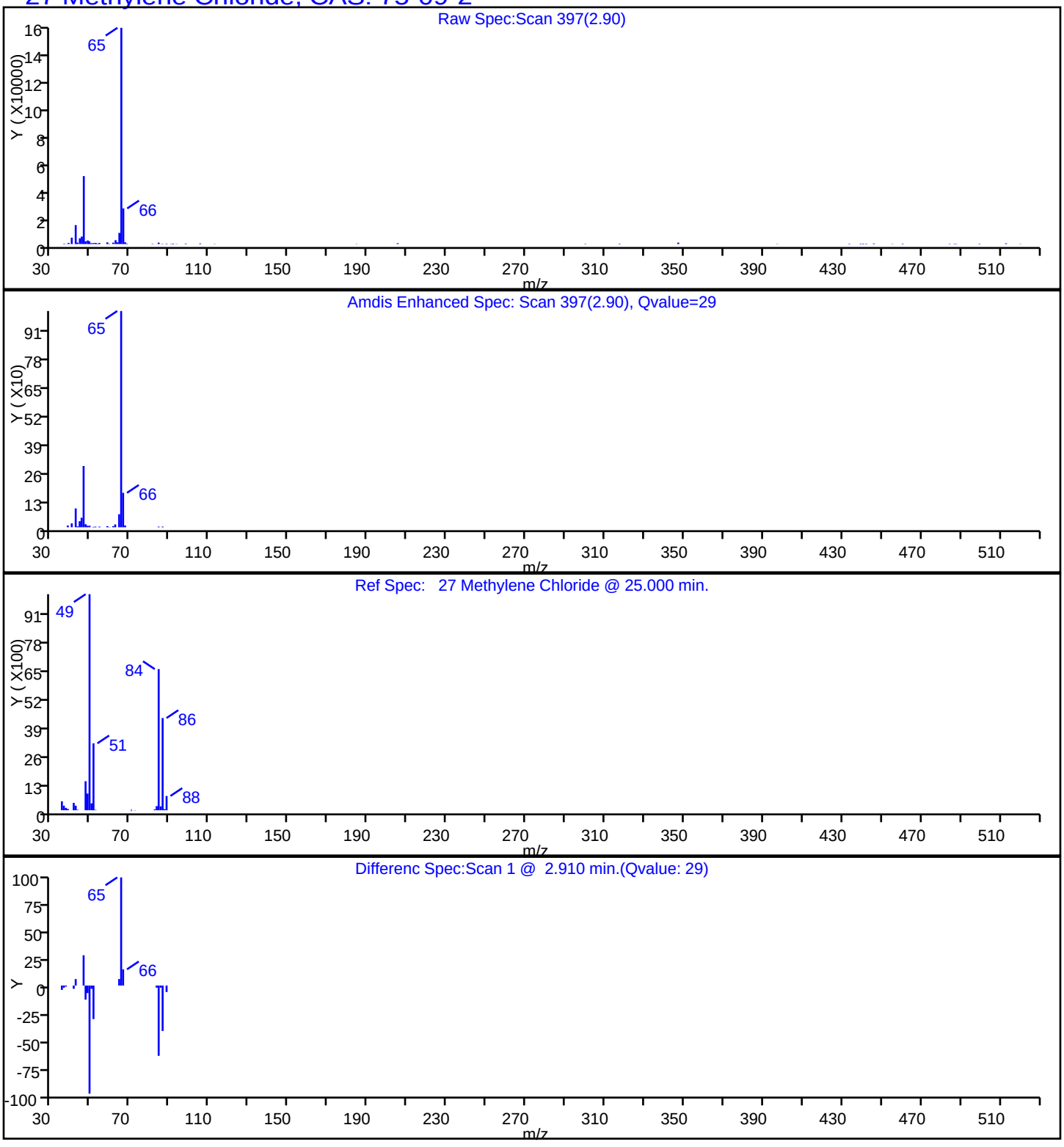


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D

| | | | |
|---|---|---|---|
| Injection Date: | 26-Apr-2016 12:37:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-C-4 | Lab Sample ID: | 460-112643-4 |
| Client ID: | TWP-4 | | |
| Operator ID: | | ALS Bottle#: | 8 Worklist Smp#: 9 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

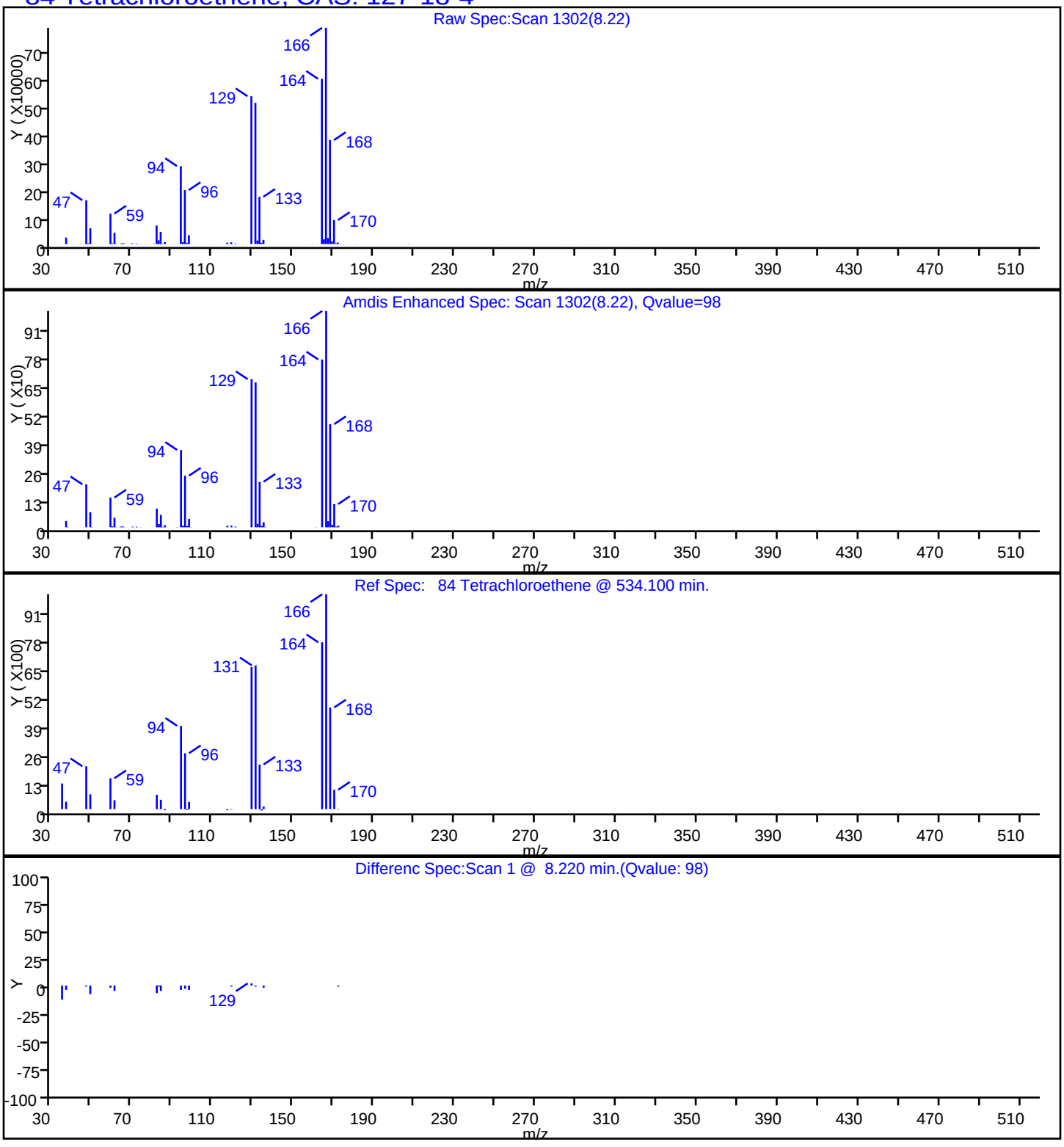
## 27 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

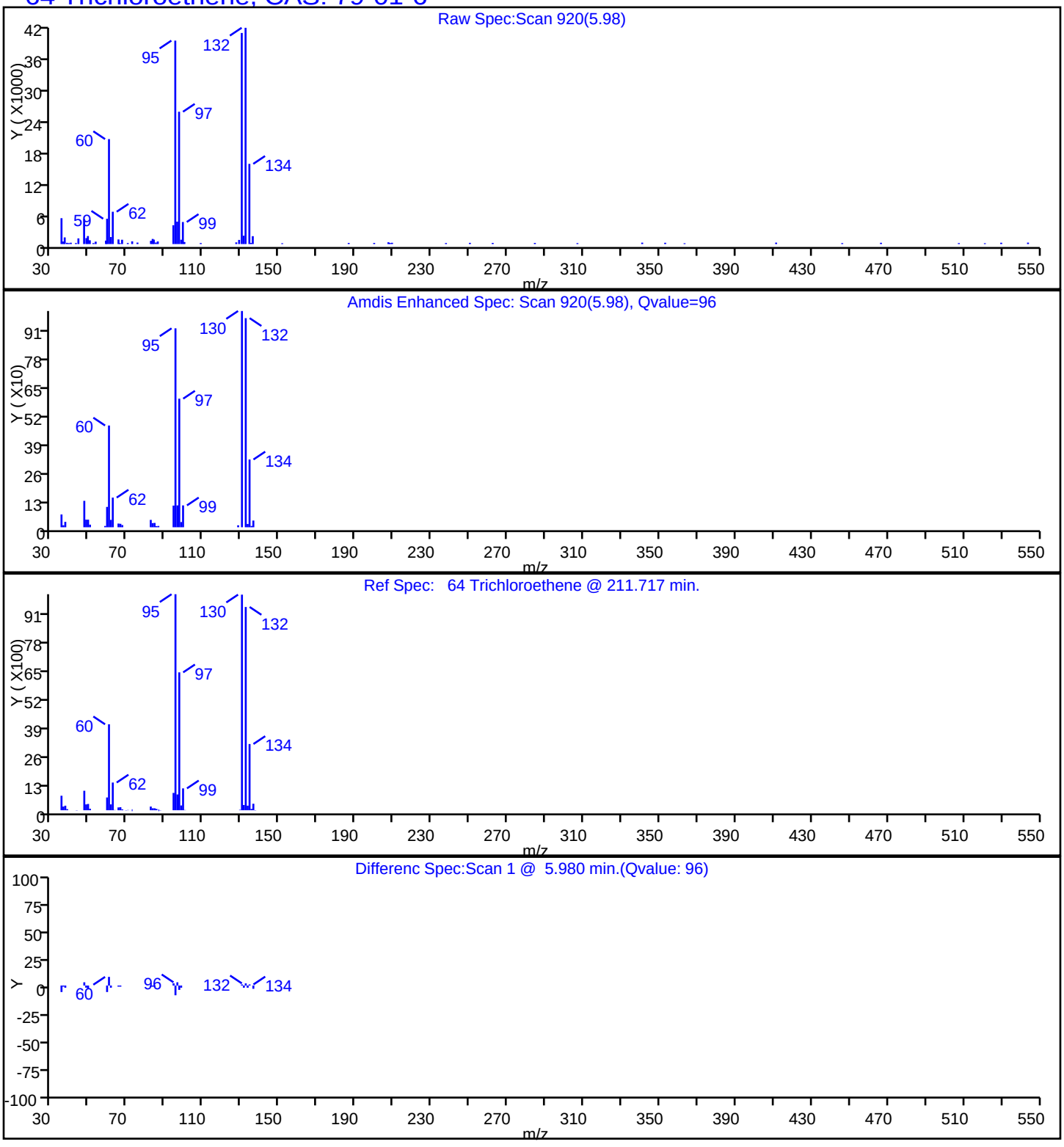
| | | | |
|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D | | |
| Injection Date: | 26-Apr-2016 12:37:30 | Instrument ID: | CVOAMS8 |
| Lims ID: | 460-112643-C-4 | Lab Sample ID: | 460-112643-4 |
| Client ID: | TWP-4 | | |
| Operator ID: | | ALS Bottle#: | 8 Worklist Smp#: 9 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN |

## 84 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39731.D
Injection Date: 26-Apr-2016 12:37:30 Instrument ID: CVOAMS8
Lims ID: 460-112643-C-4 Lab Sample ID: 460-112643-4
Client ID: TWP-4
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 ( 0.25 mm) Detector MS SCAN

## 64 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-5 | Lab Sample ID: 460-112643-5

Matrix: Water | Lab File ID: J39732.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:54

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 13:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 14 | | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.22 | U | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 6.5 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 8.4 | | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-5 | Lab Sample ID: 460-112643-5

Matrix: Water | Lab File ID: J39732.D

Analysis Method: 8260C | Date Collected: 04/22/2016 13:54

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 13:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.73 | J | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 11 | | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.20 | J | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 12 | | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 12 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 42 | | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 3.1 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.39 | J | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 106 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 92 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-5  Lab Sample ID: 460-112643-5

Matrix: Water  Lab File ID: J39732.D

Analysis Method: 8260C  Date Collected: 04/22/2016 13:54

Sample wt/vol: 5(mL)  Date Analyzed: 04/26/2016 13:05

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: Rtx-624  ID: 0.25(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 364733  Units: ug/L

Number TICs Found: 2  TIC Result Total: 35

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Unknown alkane | 0.86 | 13 | J |
| | Unknown alkane | 1.53 | 22 | J |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D
Lims ID: 460-112643-C-5
Client ID: TWP-5
Sample Type: Client
Inject. Date: 26-Apr-2016 13:05:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-112643-C-5
Misc. Info.: 460-0040302-010
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 13:24:41 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 13:24:41

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 4 Vinyl chloride | 62 | 1.026 | 1.023 | 0.003 | 6 | 3240 | 0.3861 | |
| * 26 TBA-d9 (IS) | 65 | 2.912 | 2.903 | 0.009 | 80 | 468249 | 1000.0 | |
| 29 Methyl tert-butyl ether | 73 | 3.118 | 3.108 | 0.010 | 64 | 3678 | 0.1963 | |
| * 38 2-Butanone-d5 | 46 | 4.264 | 4.254 | 0.010 | 86 | 551097 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.293 | 4.289 | 0.004 | 98 | 54797 | 6.50 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.828 | 4.824 | 0.004 | 96 | 267984 | 49.7 | |
| 56 Benzene | 78 | 5.221 | 5.218 | 0.003 | 95 | 394614 | 14.4 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.251 | 5.247 | 0.004 | 96 | 316356 | 52.8 | |
| * 62 Fluorobenzene | 96 | 5.568 | 5.558 | 0.010 | 98 | 1003516 | 50.0 | |
| 64 Trichloroethene | 95 | 5.973 | 5.964 | 0.009 | 93 | 22300 | 3.09 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.379 | 6.375 | 0.004 | 95 | 61420 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.472 | 7.462 | 0.010 | 99 | 1066059 | 48.1 | |
| 80 Toluene | 91 | 7.560 | 7.550 | 0.010 | 94 | 1257928 | 41.5 | |
| 84 Tetrachloroethene | 166 | 8.224 | 8.214 | 0.010 | 97 | 95436 | 12.4 | |
| * 90 Chlorobenzene-d5 | 117 | 9.393 | 9.389 | 0.004 | 85 | 911727 | 50.0 | |
| 92 Ethylbenzene | 106 | 9.516 | 9.513 | 0.003 | 98 | 89398 | 8.35 | |
| 94 m-Xylene & p-Xylene | 106 | 9.651 | 9.648 | 0.003 | 96 | 142166 | 11.0 | |
| 96 o-Xylene | 106 | 10.063 | 10.059 | 0.004 | 94 | 170516 | 12.5 | |
| 100 Isopropylbenzene | 105 | 10.386 | 10.382 | 0.004 | 95 | 18702 | 0.7252 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.562 | 10.558 | 0.004 | 96 | 365172 | 45.9 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.432 | 11.428 | 0.004 | 94 | 526008 | 50.0 | |

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Edison
Tentatively Identified Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Lims ID: | 460-112643-C-5 | | | | |
| Client ID: | TWP-5 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 26-Apr-2016 13:05:30 | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Sample Info: | 460-112643-C-5 | | | | |
| Misc. Info.: | 460-0040302-010 | | | | |
| Operator ID: | | Instrument ID: | CVOAMS8 | | |
| Method: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m | | | | |
| Limit Group: | VOA - 8260C Water and Solid | | | | |
| Last Update: | 26-Apr-2016 13:24:41 | Calib Date: | 29-Mar-2016 08:09:30 | | |
| Tic RT Window: | 0.000 -0.000 | Response: | area | | |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 | | |
| MS Library: | \\ChromNA\Edison\Database\NIST02.L | | | | |
| Min. Match: | 30 | | | | |
| Column 1 : | Rtx-624 ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK022 | | | | |
| First Level Reviewer: delpolitov | | Date: | 26-Apr-2016 13:24:41 | | |

Tentative Identified Compound Results

| RT | Area | Amount ug/l | Quant Cpnd | Qual | Lib Entry | Molecular Formula | Mol. Weight | Flags |
|---|---|---|---|---|---|---|---|---|
| | | Unknown alkane | | | | | | |
| 0.856 | 536862 | 12.9 | 62 | 0 | 0 | | 0 | |
| | | Unknown alkane | | | | | | |
| 1.532 | 902983 | 21.7 | 62 | 0 | 0 | | 0 | |

Quantitation Compounds

| Compound | RT | Area | Amount ug/l |
|---|---|---|---|
| * 62 Fluorobenzene | 5.568 | 2076005 | 50.0 |

## QC Flag Legend

Processing Flags

## Reagents:

| | | | | |
|---|---|---|---|---|
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

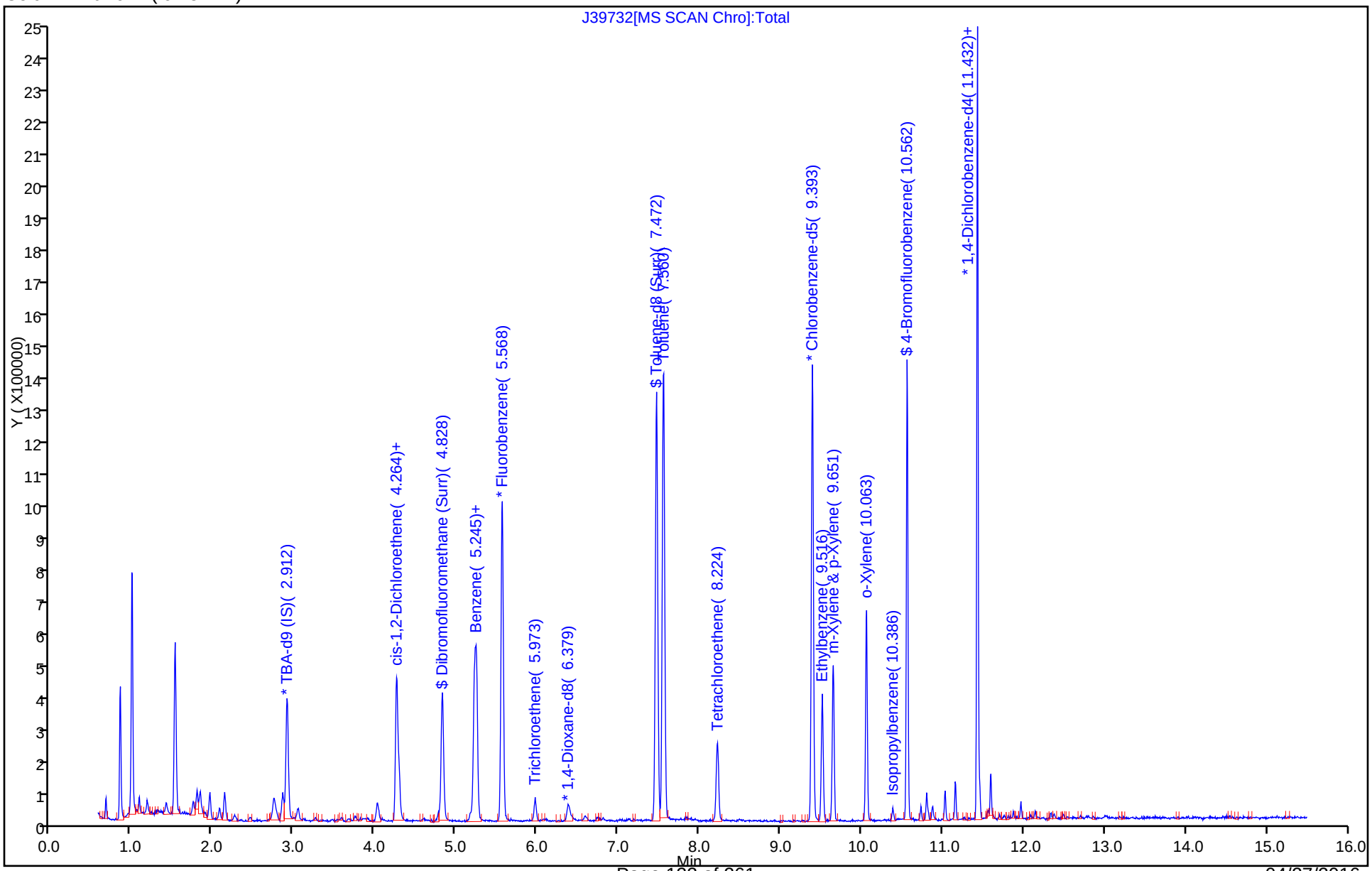
Report Date: 26-Apr-2016 13:24:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | Worklist Smp#: | 10 |
| Client ID: | TWP-5 | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 9 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

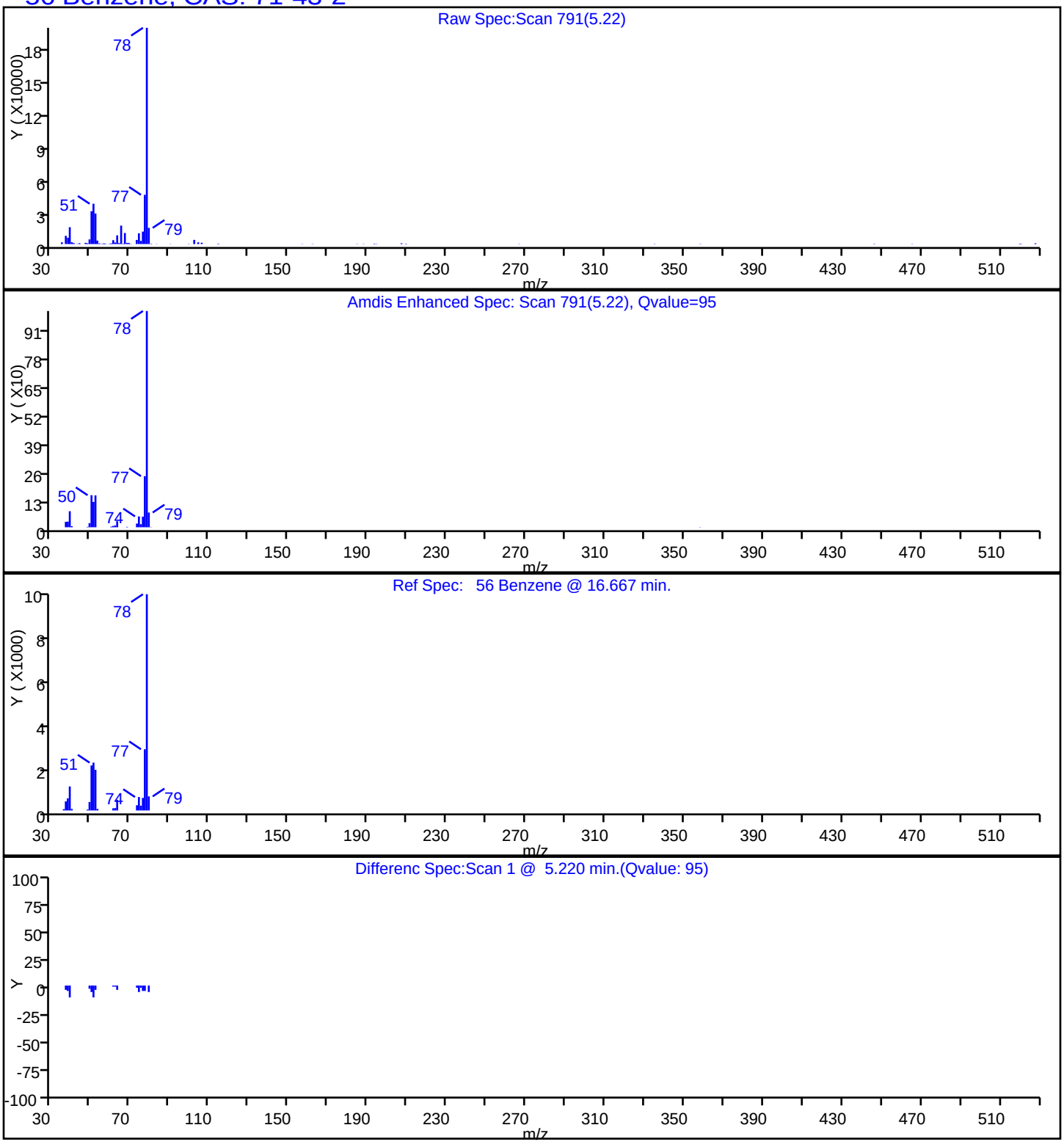
Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

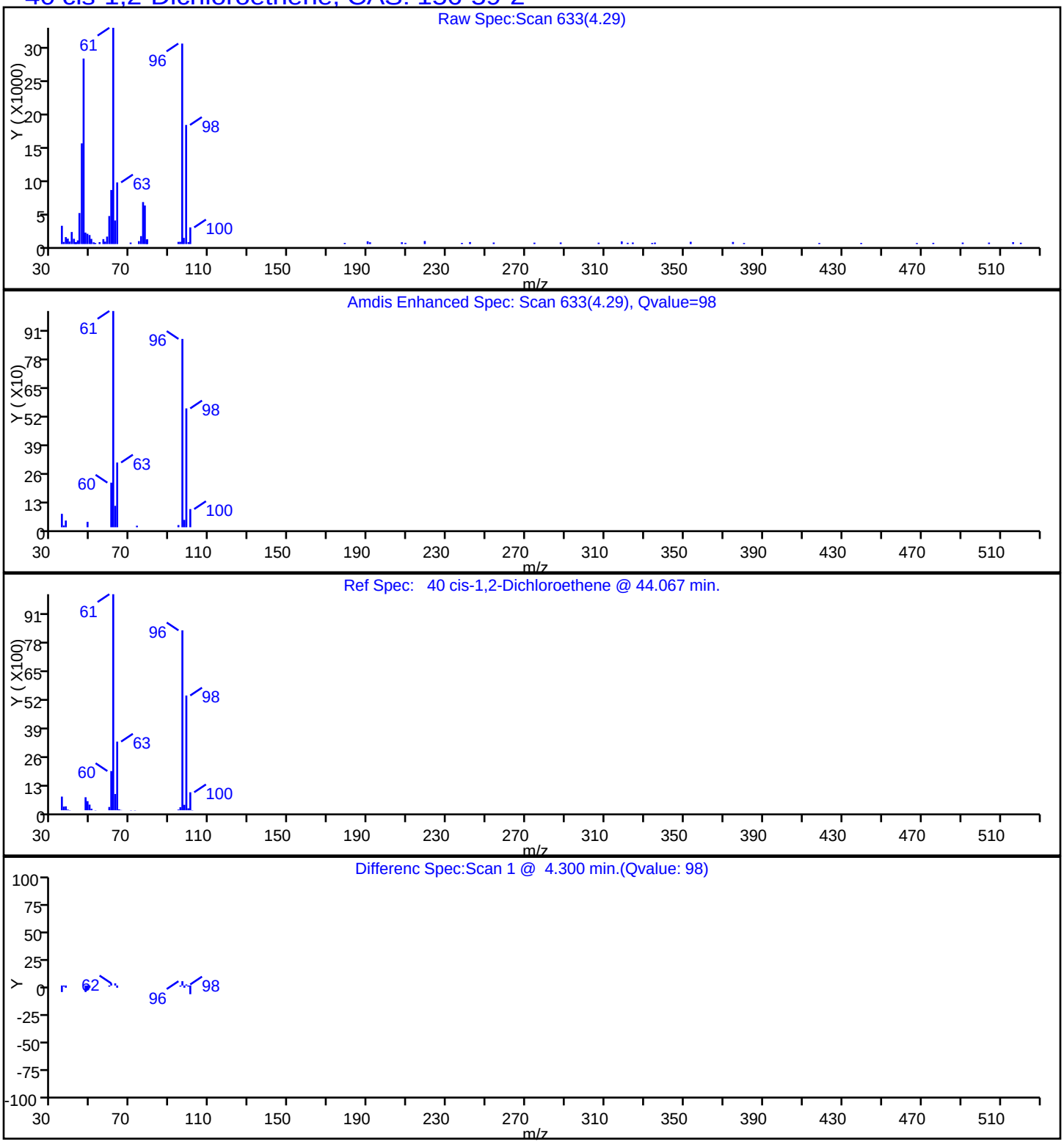
## 56 Benzene, CAS: 71-43-2



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

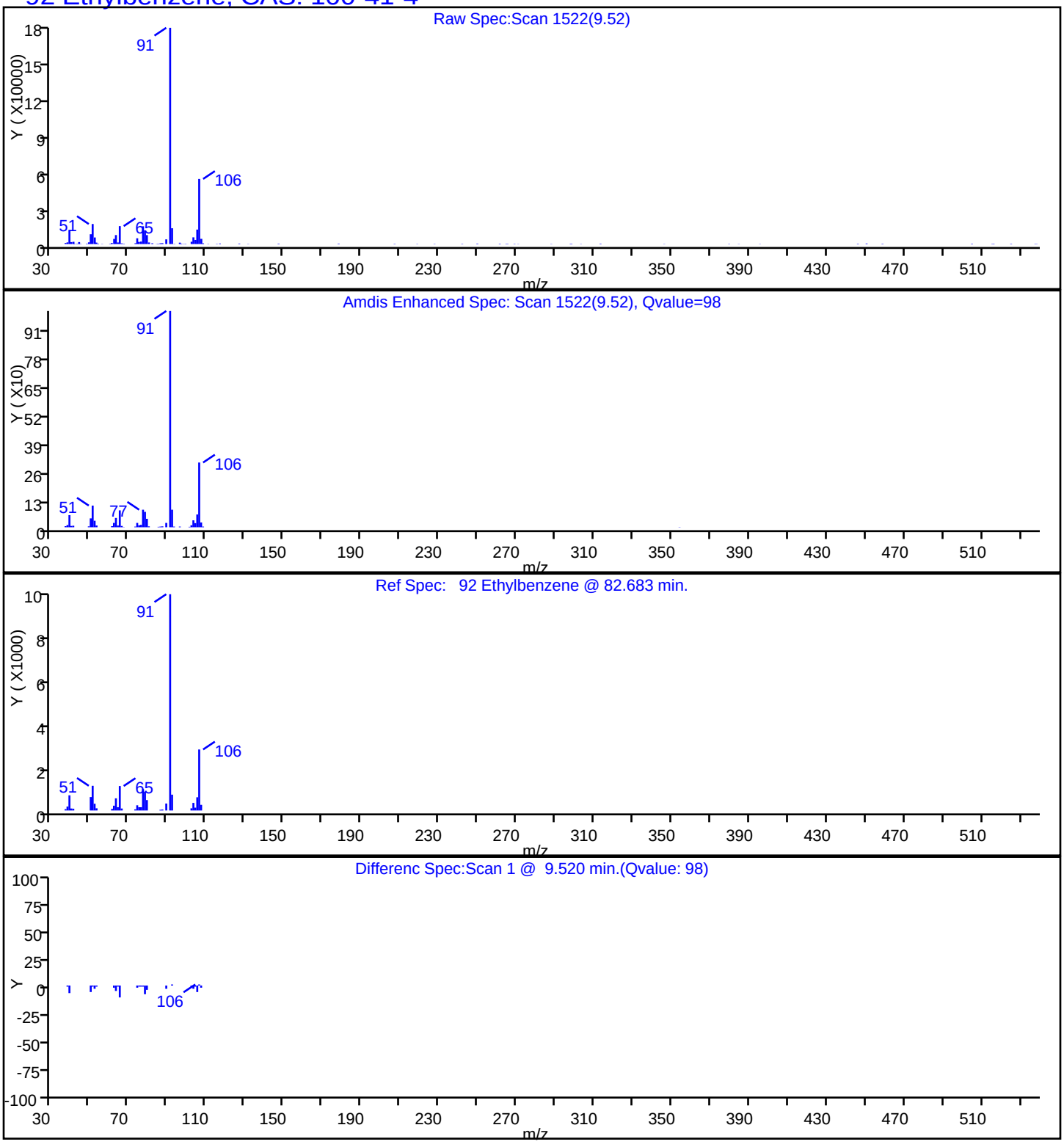
## 40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

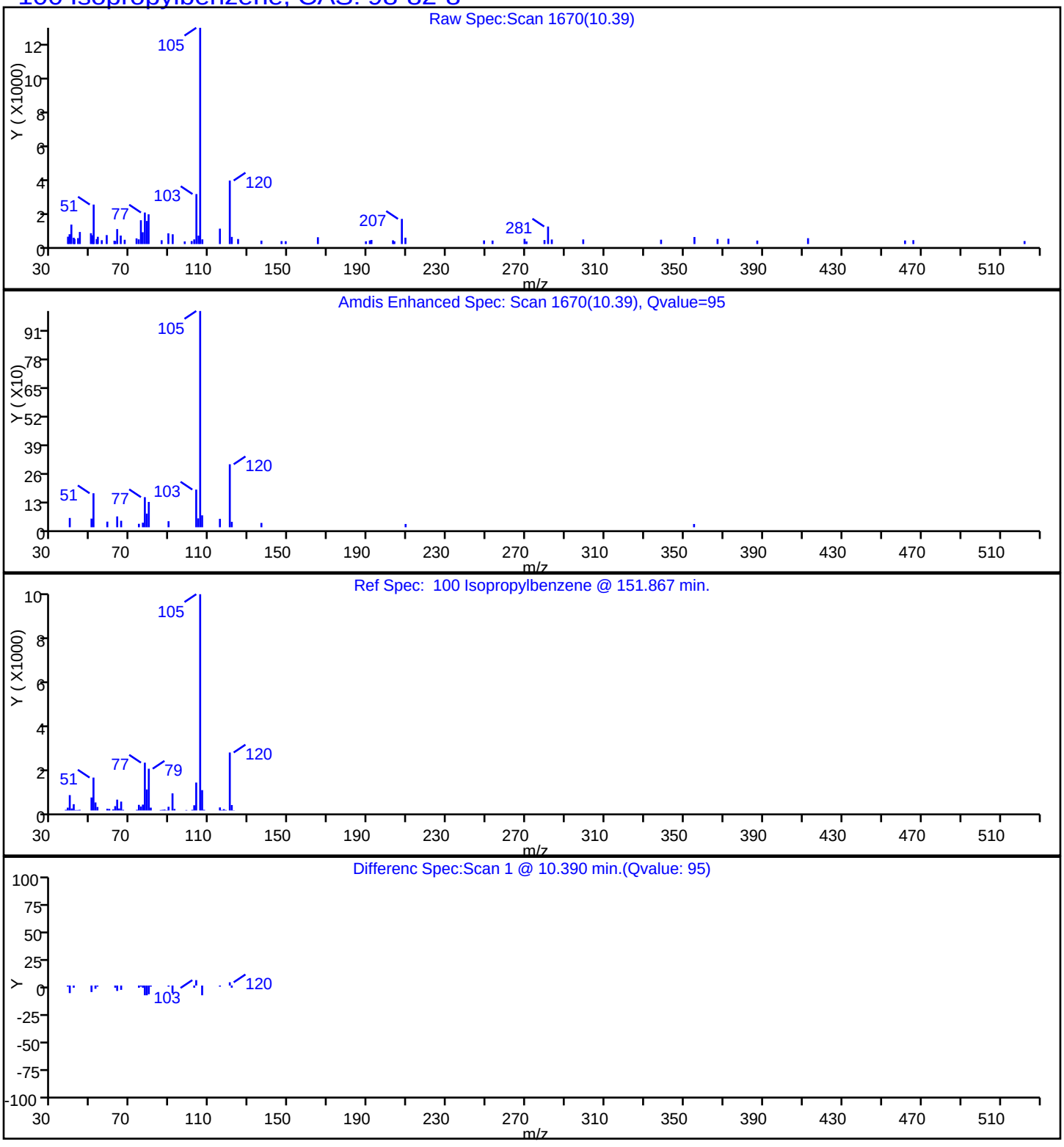
## 92 Ethylbenzene, CAS: 100-41-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D

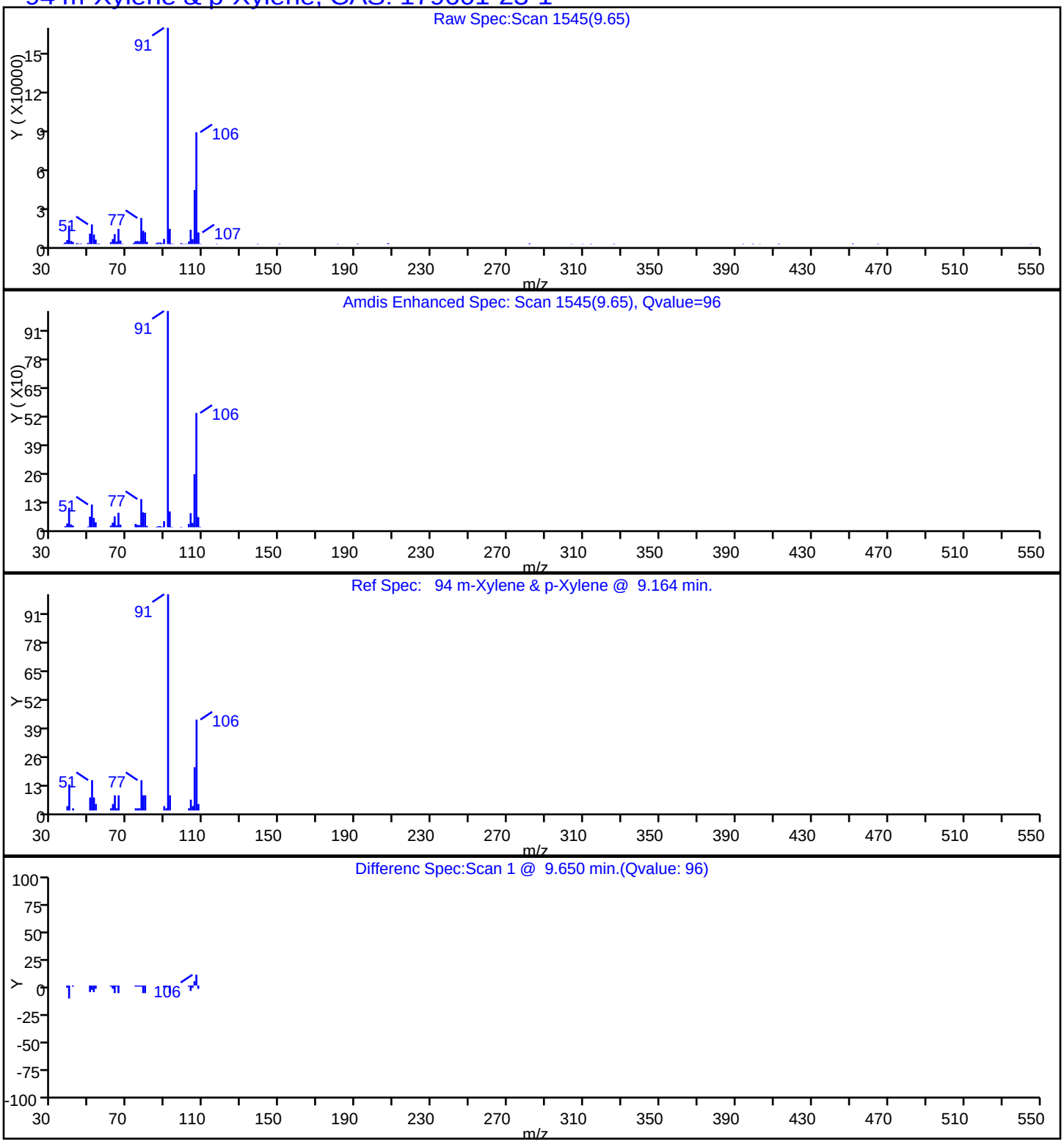
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 100 Isopropylbenzene, CAS: 98-82-8



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D
Injection Date: 26-Apr-2016 13:05:30 Instrument ID: CVOAMS8
Lims ID: 460-112643-C-5 Lab Sample ID: 460-112643-5
Client ID: TWP-5
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 ( 0.25 mm) Detector MS SCAN

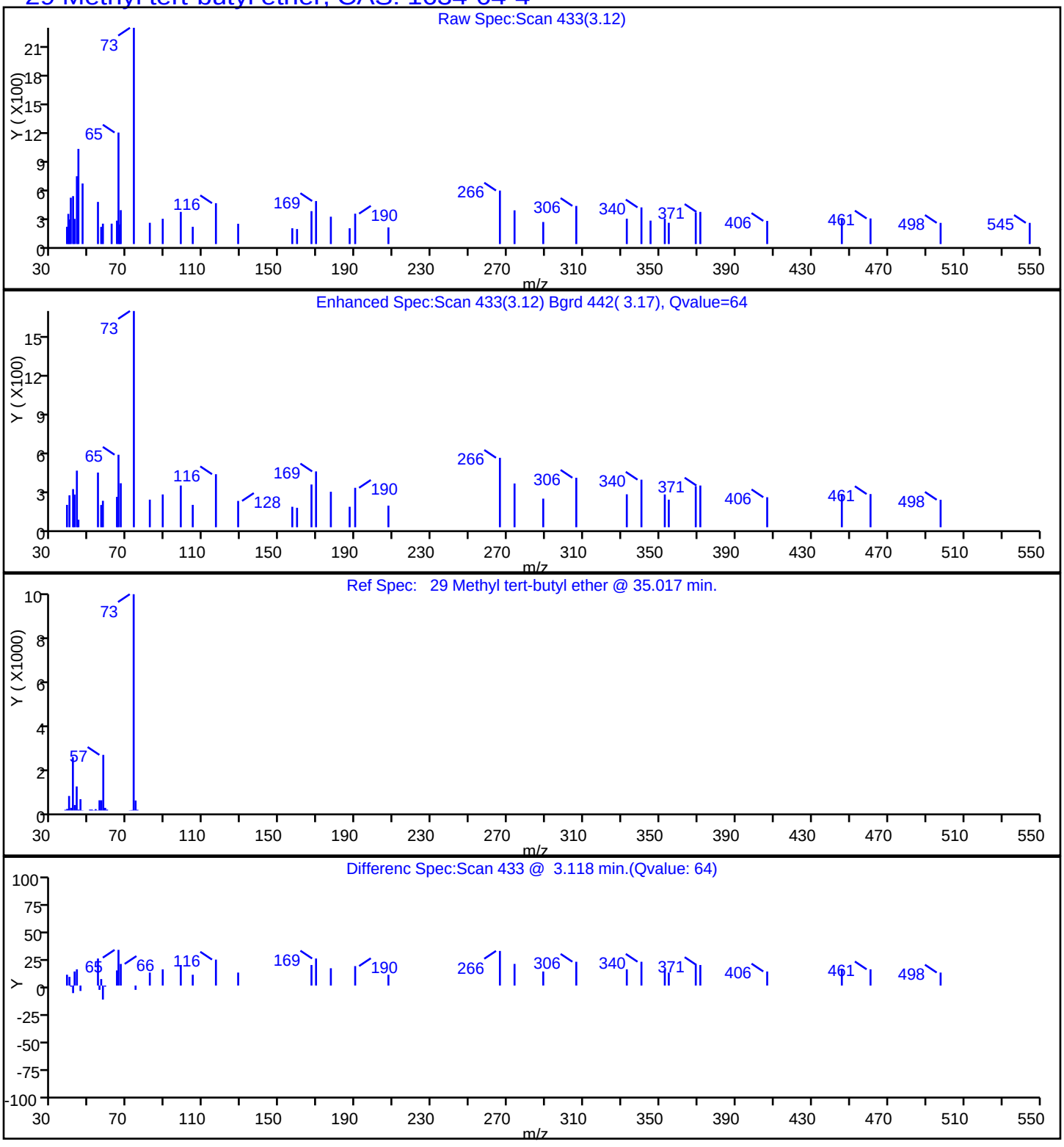
## 94 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

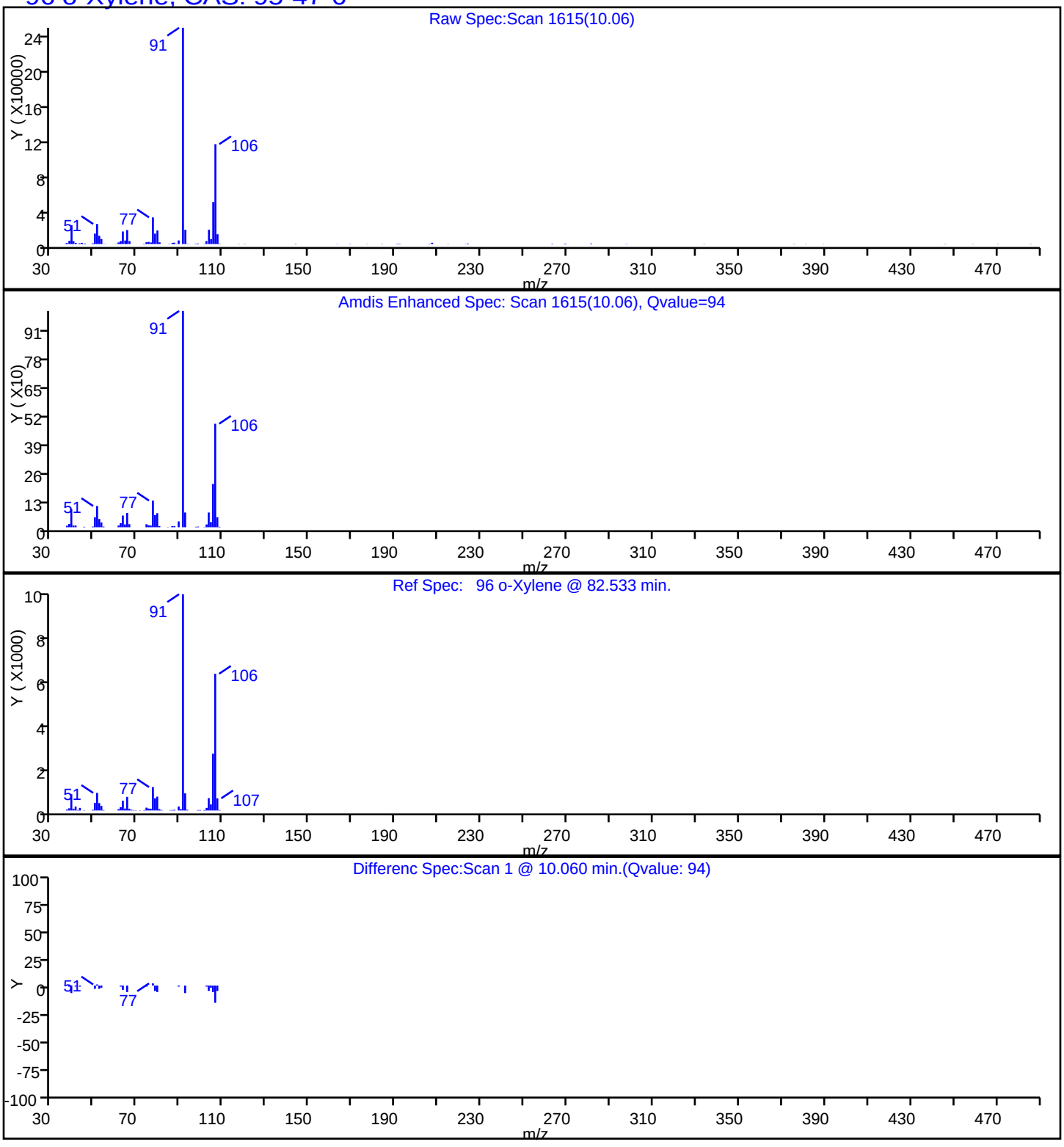
## 29 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

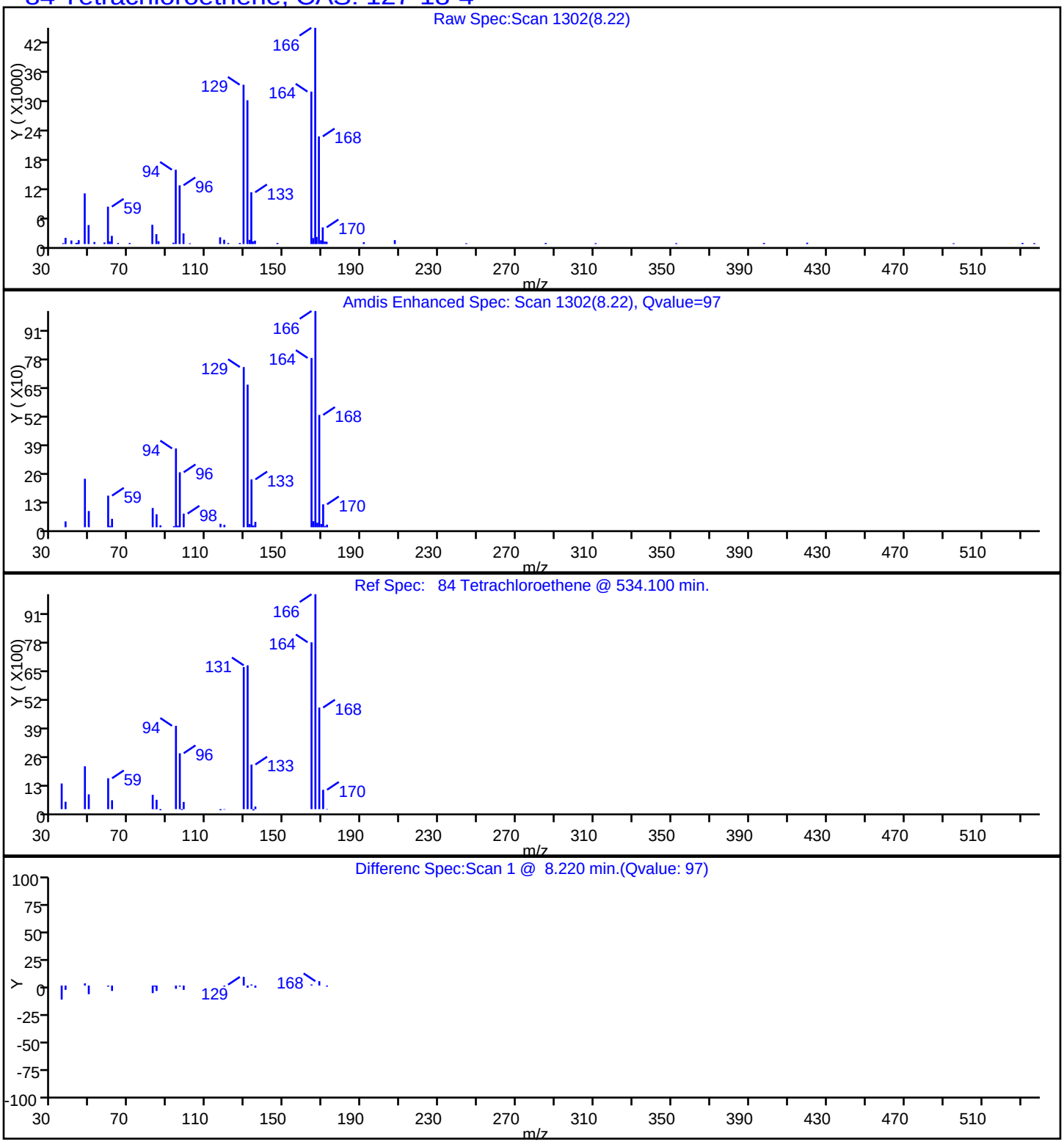
## 96 o-Xylene, CAS: 95-47-6



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

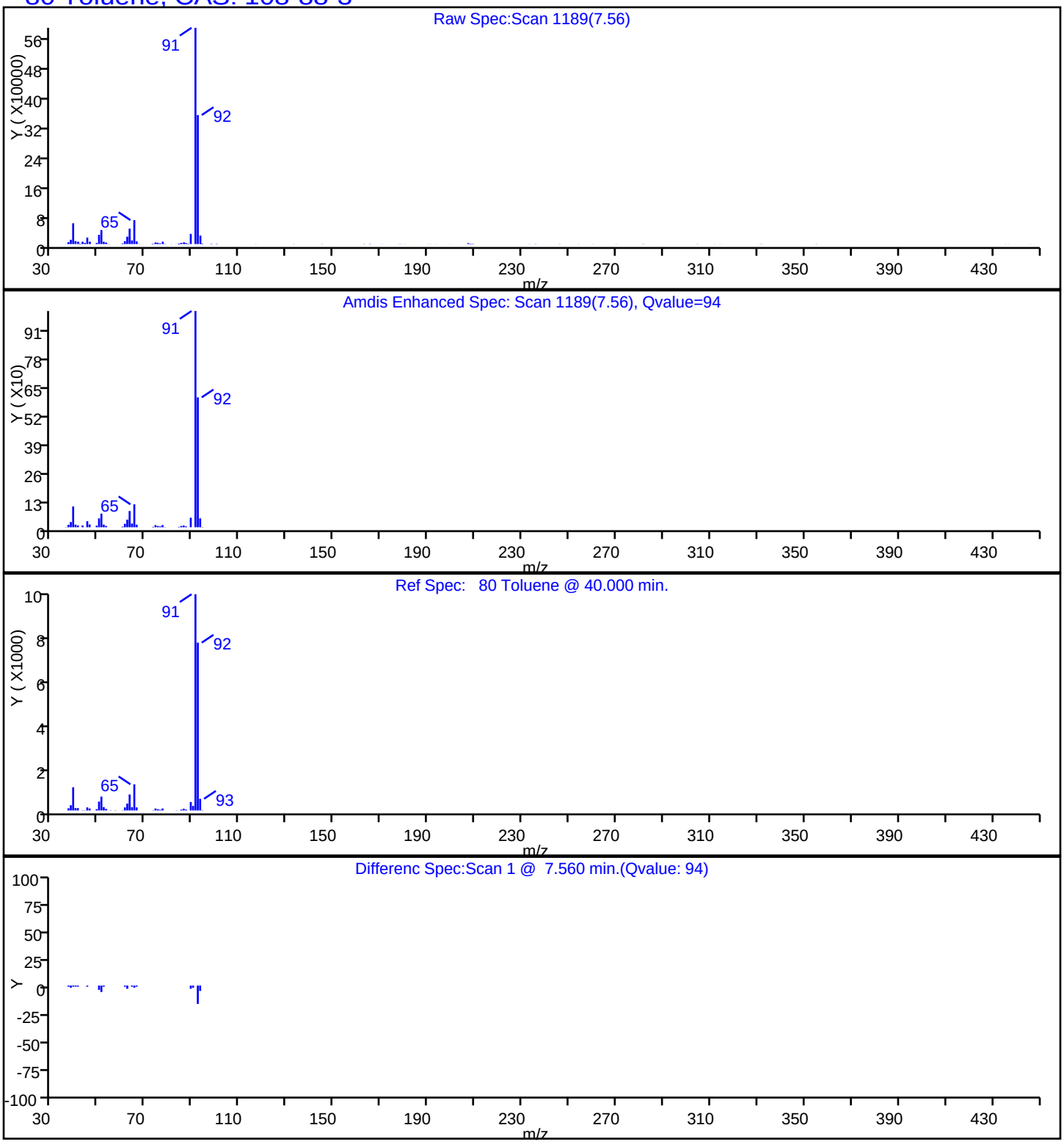
## 84 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

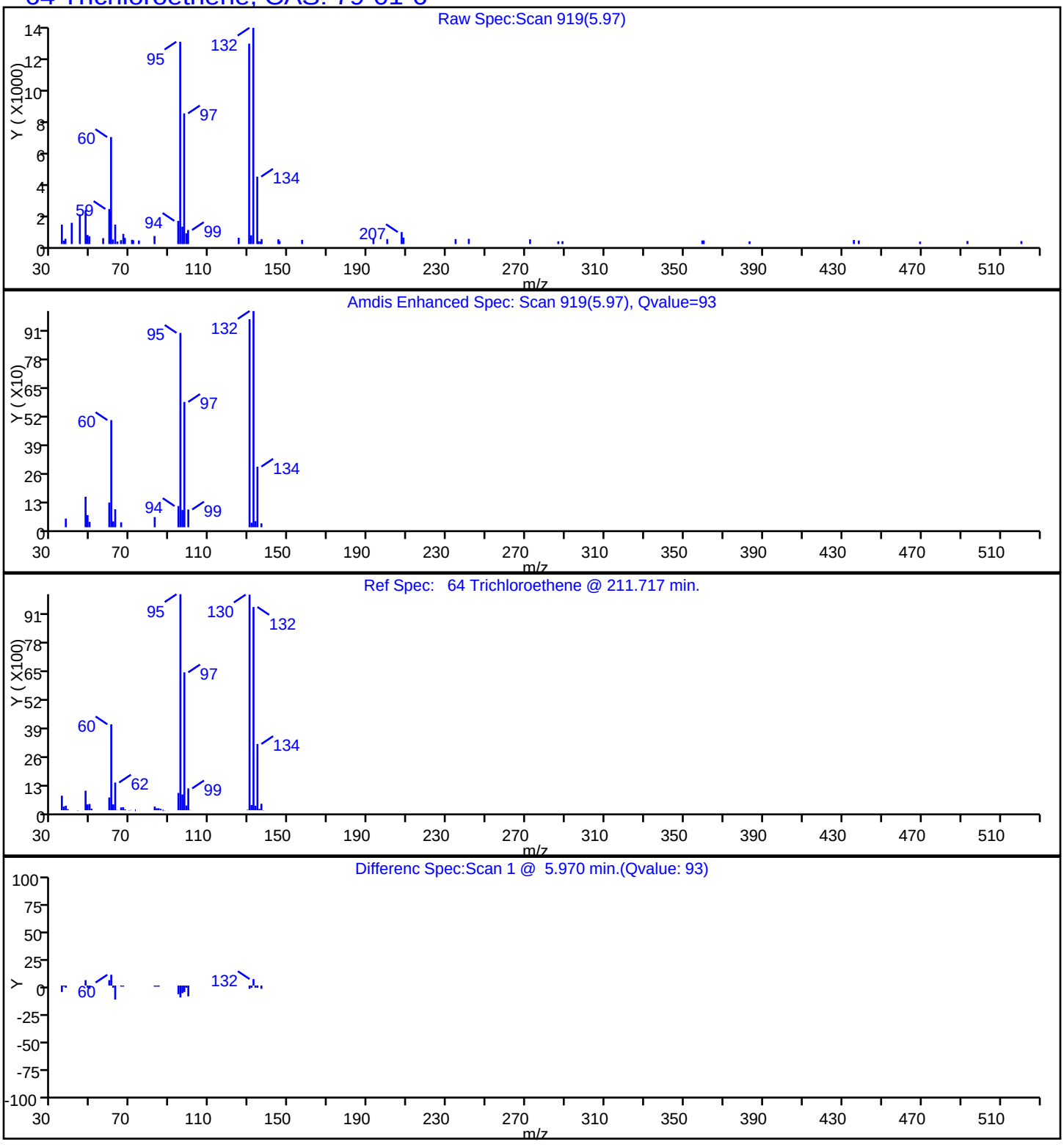
## 80 Toluene, CAS: 108-88-3



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D | | | | |
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 64 Trichloroethene, CAS: 79-01-6



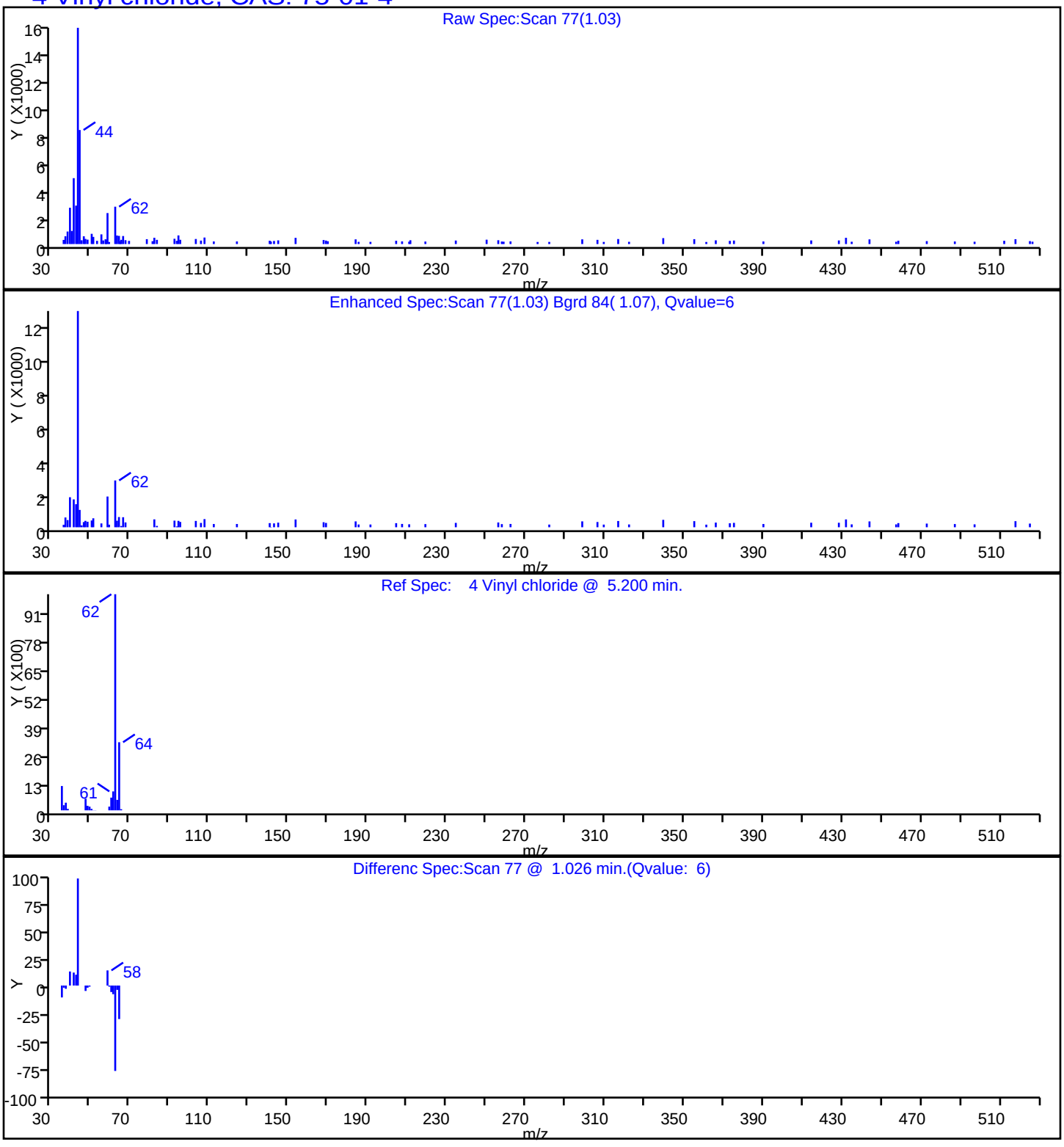
Report Date: 26-Apr-2016 13:24:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 4 Vinyl chloride, CAS: 75-01-4



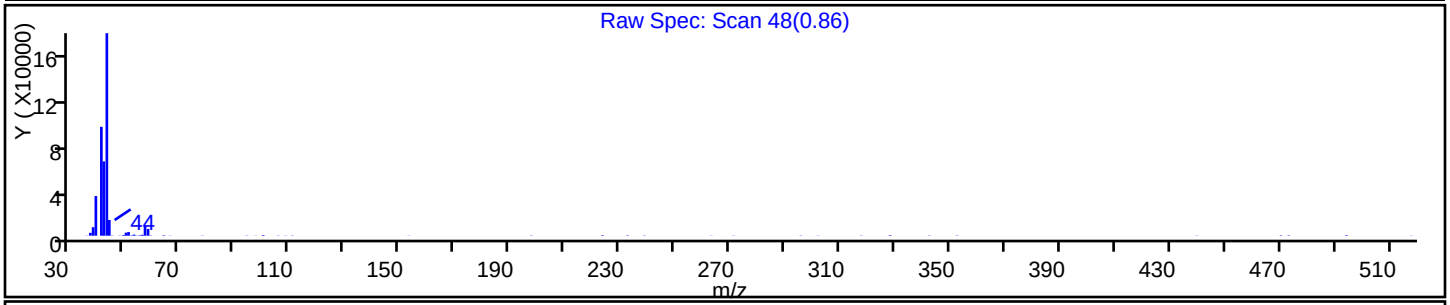
Report Date: 26-Apr-2016 13:24:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

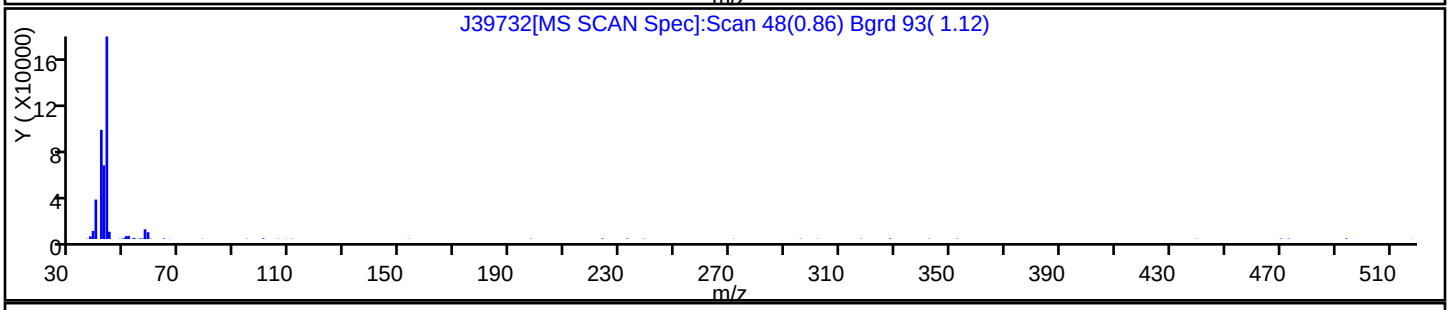
TestAmerica Edison

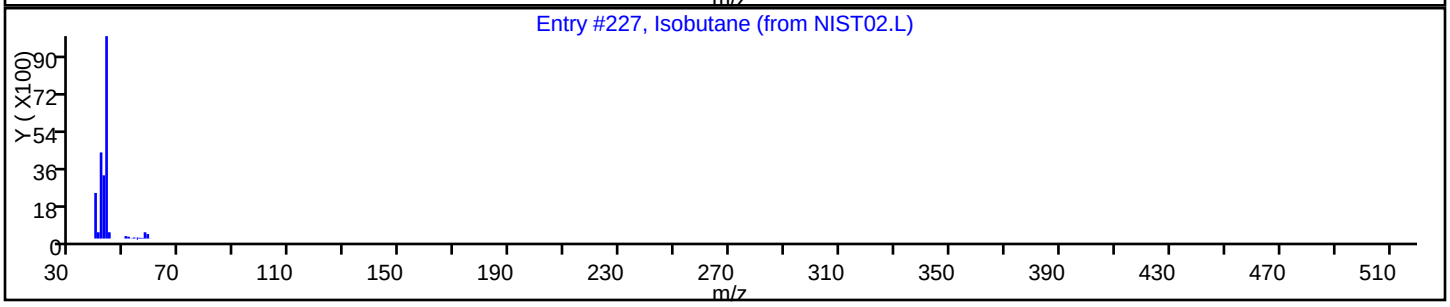
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 13:05:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-C-5 | Lab Sample ID: | 460-112643-5 | | |
| Client ID: | TWP-5 | | | | |
| Operator ID: | | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | | Detector | MS SCAN | | |

| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Unknown alkane | | | | | | |
| Isobutane | 75-28-5 | NIST02.L | 227 | C4H10 | 58 | 64 |



Report Date: 26-Apr-2016 13:24:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39732.D

Injection Date: 26-Apr-2016 13:05:30 Instrument ID: CVOAMS8

Lims ID: 460-112643-C-5 Lab Sample ID: 460-112643-5

Client ID: TWP-5

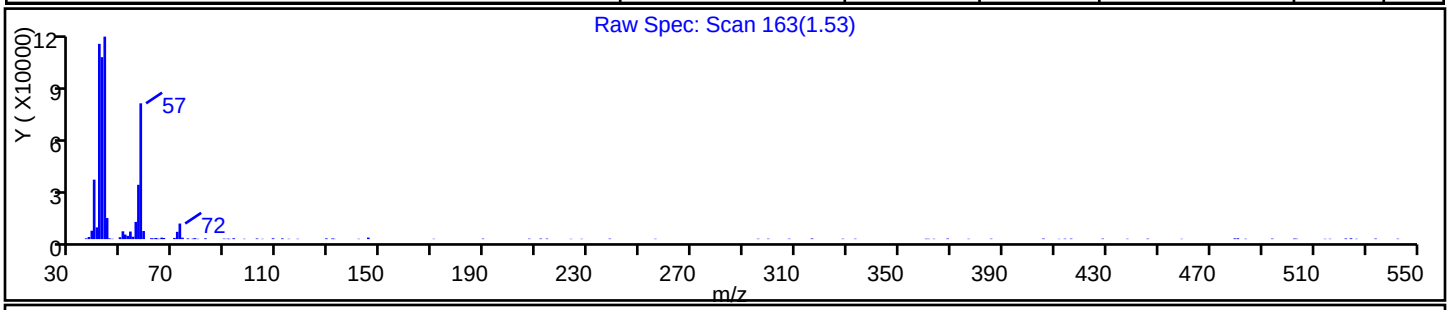
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10

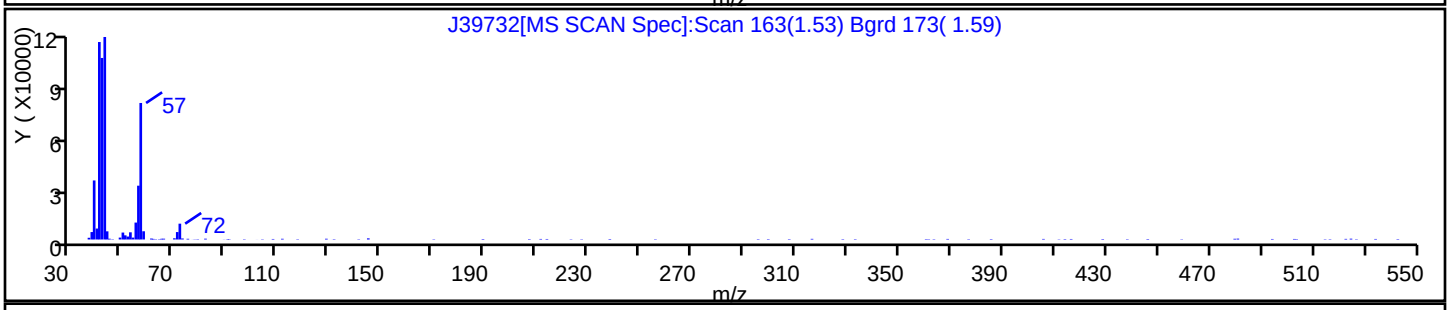
Purge Vol: 5.000 mL Dil. Factor: 1.0000

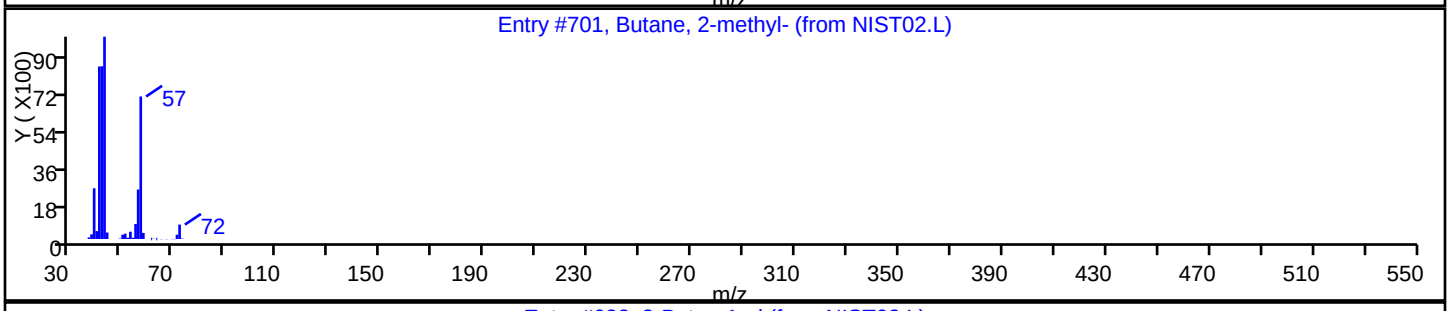
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

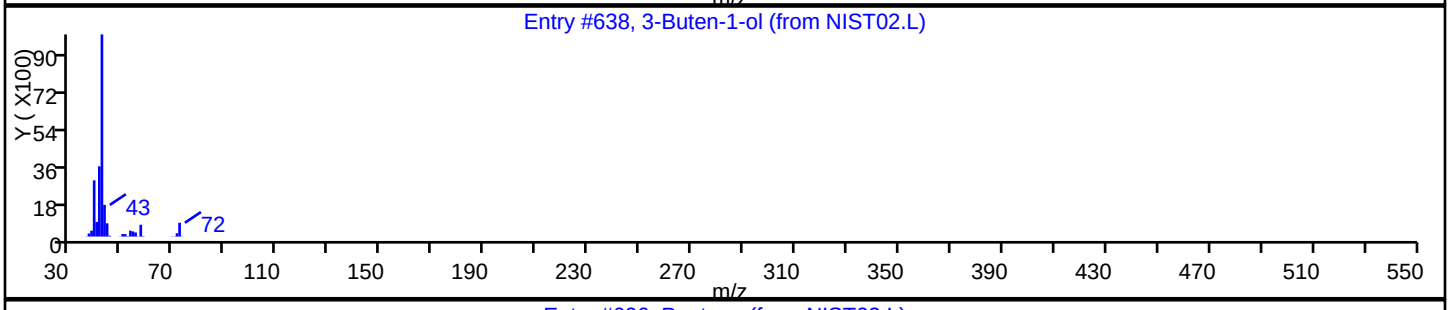
Column: Detector MS SCAN

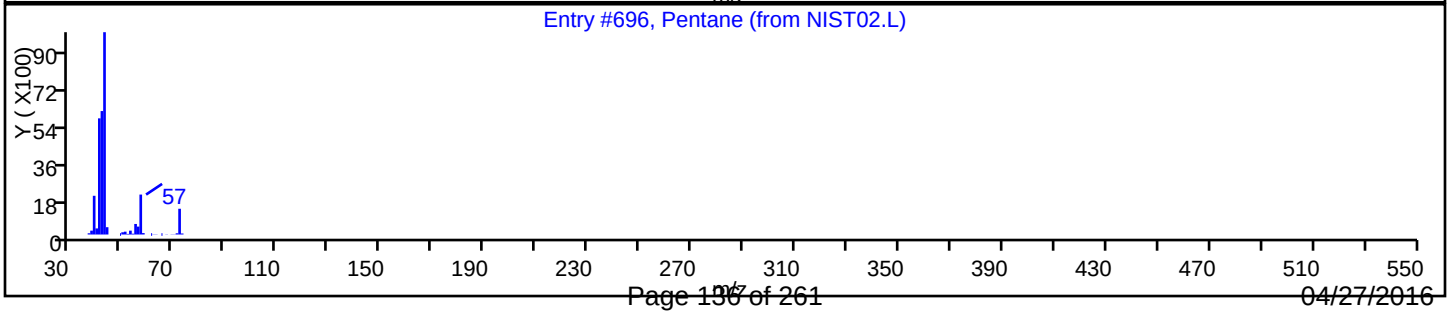
| Library Search Compound Match | CAS# | Library | Entry | Formula | Weight | Q |
|---|---|---|---|---|---|---|
| Unknown alkane | | | | | | |
| Butane, 2-methyl- | 78-78-4 | NIST02.L | 701 | C5H12 | 72 | 81 |
| 3-Buten-1-ol | 627-27-0 | NIST02.L | 638 | C4H8O | 72 | 50 |
| Pentane | 109-66-0 | NIST02.L | 696 | C5H12 | 72 | 36 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-6 | Lab Sample ID: 460-112643-6

Matrix: Water | Lab File ID: J39720.D

Analysis Method: 8260C | Date Collected: 04/22/2016 14:02

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 7.8 | | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.090 | U | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.22 | U | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.26 | U | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-6 | Lab Sample ID: 460-112643-6

Matrix: Water | Lab File ID: J39720.D

Analysis Method: 8260C | Date Collected: 04/22/2016 14:02

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.13 | U | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 0.12 | U | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 0.22 | U | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.060 | U | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 113 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 98 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: TWP-6 | Lab Sample ID: 460-112643-6

Matrix: Water | Lab File ID: J39720.D

Analysis Method: 8260C | Date Collected: 04/22/2016 14:02

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39720.D
Lims ID: 460-112643-B-6
Client ID: TWP-6
Sample Type: Client
Inject. Date: 26-Apr-2016 07:45:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-112643-B-6
Misc. Info.: 460-0040266-024
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:50:43 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: nimerd Date: 26-Apr-2016 09:40:53

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 26 TBA-d9 (IS) | 65 | 2.909 | 2.898 | 0.011 | 81 | 413400 | 1000.0 | |
| * 38 2-Butanone-d5 | 46 | 4.254 | 4.244 | 0.010 | 86 | 519987 | 250.0 | |
| 41 2-Butanone (MEK) | 72 | 4.325 | 4.314 | 0.011 | 98 | 7487 | 7.77 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.824 | 4.814 | 0.010 | 97 | 259790 | 51.0 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.241 | 5.231 | 0.010 | 97 | 319238 | 56.4 | |
| * 62 Fluorobenzene | 96 | 5.559 | 5.548 | 0.011 | 98 | 948471 | 50.0 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.381 | 6.359 | 0.022 | 92 | 59712 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.462 | 7.452 | 0.010 | 100 | 1038368 | 49.8 | |
| * 90 Chlorobenzene-d5 | 117 | 9.390 | 9.379 | 0.011 | 85 | 858822 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.554 | 0.005 | 96 | 368519 | 49.2 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.428 | 11.418 | 0.010 | 94 | 498262 | 50.0 | |

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

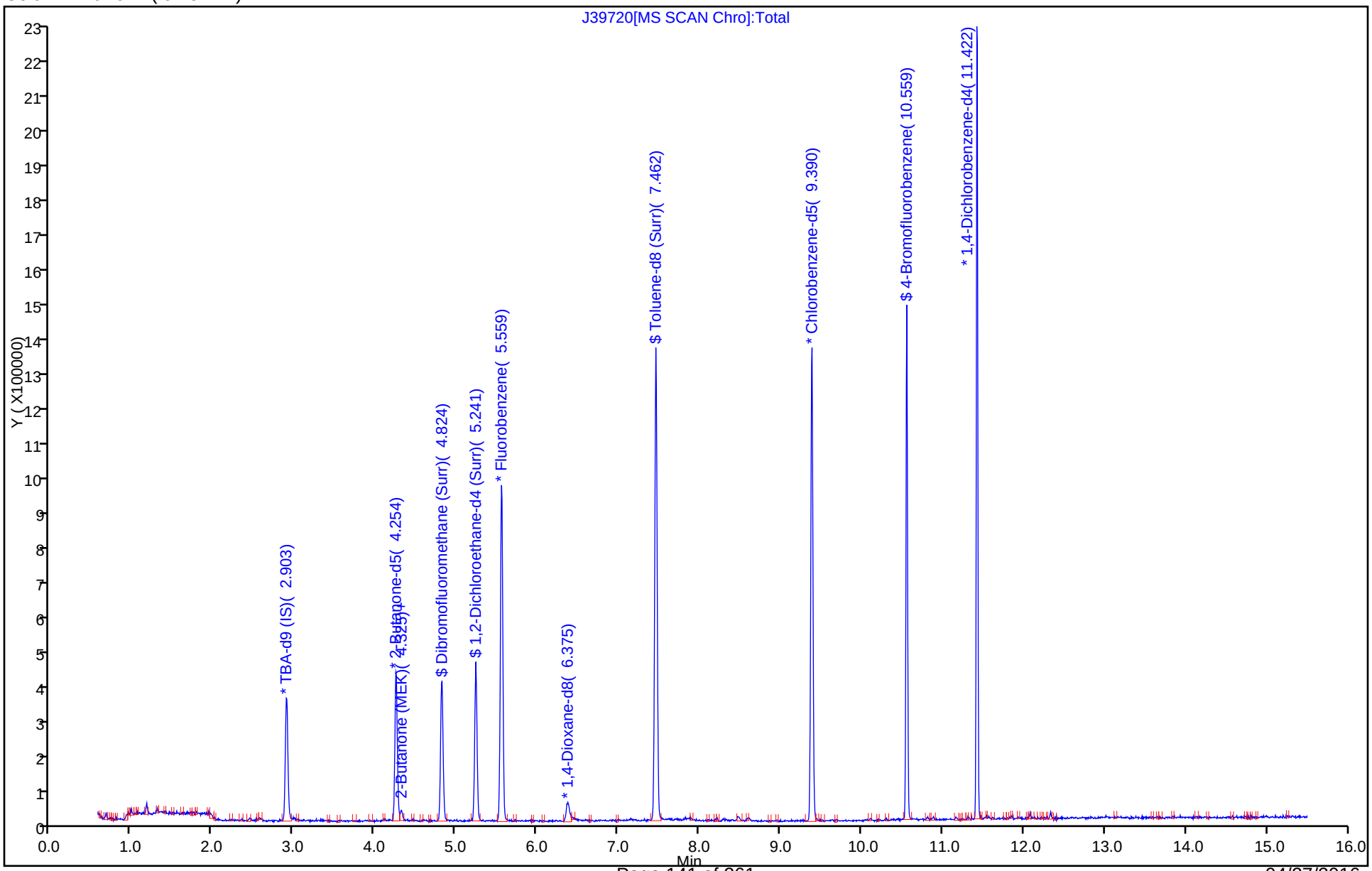
Report Date: 26-Apr-2016 10:50:45 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39720.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 07:45:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | 460-112643-B-6 | Lab Sample ID: | 460-112643-6 | Worklist Smp#: | 24 |
| Client ID: | TWP-6 | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 23 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

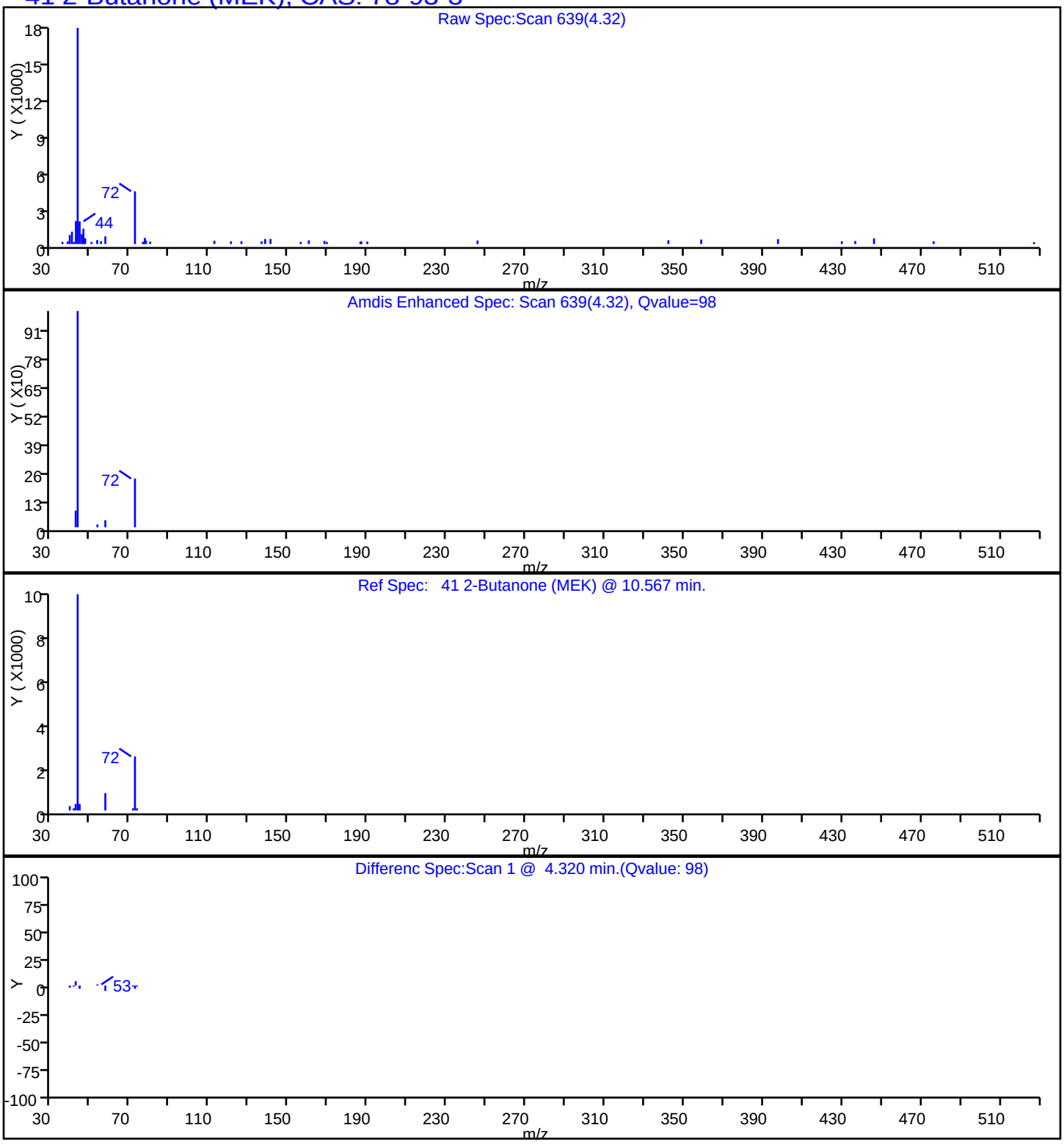
Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39720.D | | | | |
| Injection Date: | 26-Apr-2016 07:45:30 | Instrument ID: | CVOAMS8 | | |
| Lims ID: | 460-112643-B-6 | Lab Sample ID: | 460-112643-6 | | |
| Client ID: | TWP-6 | | | | |
| Operator ID: | | ALS Bottle#: | 23 | Worklist Smp#: | 24 |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |
| Column: | Rtx-624 ( 0.25 mm) | Detector | MS SCAN | | |

## 41 2-Butanone (MEK), CAS: 78-93-3



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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD7 460-359281/2 | J38329.D |
| Level 2 | STD1 460-359281/3 | J38330.D |
| Level 3 | STD5 460-359281/4 | J38331.D |
| Level 4 | STD20 460-359281/5 | J38332.D |
| Level 5 | STD50 460-359281/6 | J38333.D |
| Level 6 | STD200 460-359281/7 | J38334.D |
| Level 7 | STD500 460-359281/8 | J38335.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 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Chlorotrifluoroethene | +++++ 0.0401 | 0.0397 0.0336 | 0.0334 | 0.0363 | 0.0375 | Ave | | 0.0368 | | | | 7.8 | | 20.0 | | | |
| Dichlorodifluoromethane | +++++ 0.3626 | 0.3098 0.2249 | 0.4046 | 0.3016 | 0.3273 | Ave | | 0.3218 | | | 0.1000 | 18.9 | | 20.0 | | | |
| Chloromethane | +++++ 0.4205 | 0.4660 0.3248 | 0.4815 | 0.3986 | 0.4132 | Ave | | 0.4174 | | | 0.1000 | 13.3 | | 20.0 | | | |
| Vinyl chloride | +++++ 0.4286 | 0.4495 0.3271 | 0.4908 | 0.4038 | 0.4089 | Ave | | 0.4181 | | | 0.1000 | 13.1 | | 20.0 | | | |
| Butadiene | +++++ 0.3606 | 0.3950 0.2575 | 0.3622 | 0.3043 | 0.3247 | Ave | | 0.3341 | | | | 14.7 | | 20.0 | | | |
| Bromomethane | +++++ 0.3001 | 0.3061 0.2638 | 0.2772 | 0.2575 | 0.2686 | Ave | | 0.2789 | | | 0.1000 | 7.1 | | 20.0 | | | |
| Chloroethane | +++++ 0.2509 | 0.3463 0.2148 | 0.3168 | 0.2310 | 0.2426 | Ave | | 0.2671 | | | 0.1000 | 19.6 | | 20.0 | | | |
| Dichlorofluoromethane | +++++ 0.6147 | 0.7706 0.4923 | 0.7364 | 0.6200 | 0.6262 | Ave | | 0.6434 | | | | 15.4 | | 20.0 | | | |
| Trichlorofluoromethane | +++++ 0.5185 | 0.5346 0.3713 | 0.5302 | 0.4591 | 0.4753 | Ave | | 0.4815 | | | 0.1000 | 12.9 | | 20.0 | | | |
| Pentane | +++++ 2.4834 | 1.7559 2.1247 | 2.1233 | 1.8203 | 1.5188 | Ave | | 1.9711 | | | | 17.3 | | 20.0 | | | |
| Ethanol | +++++ 0.0644 | 0.0729 0.0542 | 0.0686 | 0.0653 | 0.0587 | Ave | | 0.0640 | | | | 10.5 | | 20.0 | | | |
| Ethyl ether | +++++ 0.2635 | 0.3120 0.2360 | 0.3063 | 0.2619 | 0.2584 | Ave | | 0.2730 | | | | 10.9 | | 20.0 | | | |
| 2-Methyl-1,3-butadiene | +++++ 0.2854 | 0.2606 0.2377 | 0.2908 | 0.2408 | 0.2091 | Ave | | 0.2541 | | | | 12.2 | | 20.0 | | | |
| 1,2-Dichloro-1,1,2-trifluoroethane | +++++ 0.2716 | 0.2577 0.2327 | 0.2957 | 0.2809 | 0.2565 | Ave | | 0.2659 | | | | 8.2 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Freon TF | +++++<br>0.2896 | 0.1549<br>0.2418 | 0.2853 | 0.2626 | 0.2643 | Ave | | 0.2497 | | | 0.1000 | 19.8 | | 20.0 | | | |
| Acrolein | +++++<br>3.1207 | 3.7369<br>3.1533 | 3.0691 | 2.7819 | 2.9669 | Ave | | 3.1381 | | | | 10.3 | | 20.0 | | | |
| 1,1-Dichloroethene | +++++<br>0.3118 | 0.2968<br>0.2683 | 0.3298 | 0.3084 | 0.2972 | Ave | | 0.3020 | | | 0.1000 | 6.8 | | 20.0 | | | |
| Acetone | +++++<br>1.0596 | 1.6034<br>0.9831 | 1.1863 | 1.0505 | 0.9329 | Lin2 | 3.0373 | 1.0067 | | | 0.0500 | | | | 0.9970 | | 0.9900 |
| Iodomethane | +++++<br>0.5421 | 0.4399<br>0.4725 | 0.5513 | 0.5146 | 0.5312 | Ave | | 0.5086 | | | | 8.6 | | 20.0 | | | |
| Carbon disulfide | +++++<br>1.0515 | 1.0677<br>0.7833 | 1.2709 | 1.0971 | 1.0669 | Ave | | 1.0562 | | | 0.1000 | 14.8 | | 20.0 | | | |
| Isopropyl alcohol | +++++<br>0.8516 | 0.9402<br>0.7364 | 0.7828 | 0.7704 | 0.8262 | Ave | | 0.8179 | | | | 8.9 | | 20.0 | | | |
| 3-Chloro-1-propene | +++++<br>0.1911 | 0.1922<br>0.1769 | 0.2071 | 0.1943 | 0.1850 | Ave | | 0.1911 | | | | 5.3 | | 20.0 | | | |
| Cyclopentene | +++++<br>0.8494 | 0.7213<br>0.6719 | 0.8192 | 0.7379 | 0.6608 | Ave | | 0.7434 | | | | 10.3 | | 20.0 | | | |
| Methyl acetate | +++++<br>0.2147 | 0.2568<br>0.1538 | 0.2383 | 0.2435 | 0.2288 | Ave | | 0.2227 | | | 0.1000 | 16.4 | | 20.0 | | | |
| Acetonitrile | +++++<br>2.0633 | 2.0589<br>1.8872 | 2.1521 | 1.7689 | 1.9645 | Ave | | 1.9825 | | | | 7.0 | | 20.0 | | | |
| Methylene Chloride | +++++<br>0.3557 | 0.4060<br>0.3107 | 0.4155 | 0.3740 | 0.3512 | Ave | | 0.3689 | | | 0.1000 | 10.5 | | 20.0 | | | |
| 2-Methyl-2-propanol | +++++<br>1.4287 | 2.4722<br>1.2440 | 1.6240 | 1.5190 | 1.3756 | Lin2 | 11.066 | 1.3751 | | | | | | | 0.9970 | | 0.9900 |
| MTBE | +++++<br>0.9311 | 0.8749<br>0.7544 | 1.0988 | 0.9886 | 0.9520 | Ave | | 0.9333 | | | 0.1000 | 12.3 | | 20.0 | | | |
| trans-1,2-Dichloroethene | +++++<br>0.3489 | 0.3852<br>0.3081 | 0.4141 | 0.3530 | 0.3435 | Ave | | 0.3588 | | | 0.1000 | 10.2 | | 20.0 | | | |
| Acrylonitrile | 8.1232<br>5.7368 | 7.0140<br>4.3784 | 6.5747 | 5.9444 | 5.8371 | Ave | | 6.2298 | | | | 18.8 | | 20.0 | | | |
| Hexane | +++++<br>0.2663 | 0.1132<br>0.2329 | 0.2469 | 0.2394 | 0.2385 | Lin2 | -0.134 | 0.2514 | | | | | | | 0.9960 | | 0.9900 |
| Isopropyl ether | +++++<br>0.9507 | 1.0011<br>0.7530 | 1.0743 | 0.9845 | 0.9247 | Ave | | 0.9481 | | | | 11.4 | | 20.0 | | | |
| 1,1-Dichloroethane | +++++<br>0.6321 | 0.6807<br>0.5549 | 0.7018 | 0.6329 | 0.6202 | Ave | | 0.6371 | | | 0.2000 | 8.1 | | 20.0 | | | |
| Vinyl acetate | +++++<br>0.5336 | 0.5372<br>0.4187 | 0.5228 | 0.6225 | 0.6021 | Ave | | 0.5395 | | | | 13.3 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Chloro-1,3-butadiene | +++++<br>0.3284 | 0.2506<br>0.2856 | 0.3087 | 0.2809 | 0.2635 | Ave | | 0.2863 | | | | 10.0 | | 20.0 | | | |
| Tert-butyl ethyl ether | +++++<br>0.9902 | 1.1168<br>0.7993 | 1.0885 | 1.0247 | 0.9636 | Ave | | 0.9972 | | | | 11.3 | | 20.0 | | | |
| 2,2-Dichloropropane | +++++<br>0.1595 | 0.1808<br>0.1507 | 0.1545 | 0.1511 | 0.1531 | Ave | | 0.1583 | | | | 7.2 | | 20.0 | | | |
| cis-1,2-Dichloroethene | +++++<br>0.3971 | 0.5232<br>0.3517 | 0.4502 | 0.4071 | 0.3900 | Ave | | 0.4199 | | | 0.1000 | 14.2 | | 20.0 | | | |
| 2-Butanone | +++++<br>0.4565 | 0.5572<br>0.4316 | 0.4427 | 0.4712 | 0.4212 | Ave | | 0.4634 | | | 0.0500 | 10.6 | | 20.0 | | | |
| Ethyl acetate | +++++<br>6.6418 | 7.9249<br>5.1109 | 7.5459 | 6.7554 | 6.5154 | Ave | | 6.7490 | | | | 14.5 | | 20.0 | | | |
| Methyl acrylate | +++++<br>0.3216 | 0.3714<br>0.2794 | 0.3341 | 0.3258 | 0.3134 | Ave | | 0.3243 | | | | 9.2 | | 20.0 | | | |
| Propionitrile | +++++<br>2.5034 | 2.9827<br>2.1948 | 2.6836 | 2.3199 | 2.3557 | Ave | | 2.5067 | | | | 11.5 | | 20.0 | | | |
| Tetrahydrofuran | +++++<br>0.5026 | 0.6910<br>0.4597 | 0.5226 | 0.5070 | 0.4685 | Ave | | 0.5252 | | | | 16.1 | | 20.0 | | | |
| Bromochloromethane | +++++<br>0.2030 | 0.2346<br>0.1829 | 0.2383 | 0.2025 | 0.1935 | Ave | | 0.2091 | | | | 10.7 | | 20.0 | | | |
| Methacrylonitrile | +++++<br>0.1457 | 0.1793<br>0.0994 | 0.1645 | 0.1572 | 0.1549 | Ave | | 0.1502 | | | | 18.2 | | 20.0 | | | |
| Chloroform | +++++<br>0.6091 | 0.5968<br>0.5109 | 0.6480 | 0.6009 | 0.6054 | Ave | | 0.5952 | | | 0.2000 | 7.6 | | 20.0 | | | |
| Cyclohexane | +++++<br>0.4314 | 0.2662<br>0.3547 | 0.4269 | 0.3856 | 0.3968 | Ave | | 0.3769 | | | 0.1000 | 16.2 | | 20.0 | | | |
| 1,1,1-Trichloroethane | +++++<br>0.4886 | 0.5290<br>0.4225 | 0.5161 | 0.4709 | 0.4735 | Ave | | 0.4834 | | | 0.1000 | 7.8 | | 20.0 | | | |
| Carbon tetrachloride | +++++<br>0.4297 | 0.3864<br>0.3664 | 0.4365 | 0.3924 | 0.3969 | Ave | | 0.4014 | | | 0.1000 | 6.7 | | 20.0 | | | |
| 1,1-Dichloropropene | +++++<br>0.4609 | 0.4737<br>0.3959 | 0.5274 | 0.4348 | 0.4345 | Ave | | 0.4545 | | | | 9.8 | | 20.0 | | | |
| Isobutyl alcohol | +++++<br>0.8039 | 0.6390<br>0.7076 | 0.6569 | 0.7387 | 0.6819 | Ave | | 0.7047 | | | | 8.5 | | 20.0 | | | |
| Isooctane | +++++<br>0.5479 | 0.3663<br>0.4878 | 0.4563 | 0.4554 | 0.3513 | Ave | | 0.4442 | | | | 16.7 | | 20.0 | | | |
| Benzene | +++++<br>1.4951 | 1.5431<br>1.1346 | 1.7448 | 1.5765 | 1.5284 | Ave | | 1.5038 | | | 0.5000 | 13.4 | | 20.0 | | | |
| Tert-amyl methyl ether | +++++<br>1.0135 | 1.0297<br>0.8119 | 1.1000 | 1.0429 | 0.9830 | Ave | | 0.9968 | | | | 9.9 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Isopropyl acetate | +++++<br>0.9121 | 1.0140<br>0.6949 | 1.0166 | 0.9075 | 0.8815 | Ave | | 0.9044 | | | | 13.0 | | 20.0 | | | |
| 1,2-Dichloroethane | +++++<br>0.4703 | 0.5293<br>0.4013 | 0.5322 | 0.4827 | 0.4619 | Ave | | 0.4796 | | | 0.1000 | 10.1 | | 20.0 | | | |
| n-Heptane | +++++<br>0.1240 | 0.0531<br>0.1131 | 0.1121 | 0.1148 | 0.1110 | Lin2 | -0.064 | 0.1183 | | | | | | | 0.9980 | | 0.9900 |
| n-Butanol | +++++<br>0.4496 | 0.3419<br>0.3793 | 0.3963 | 0.3683 | 0.4135 | Ave | | 0.3915 | | | | 9.6 | | 20.0 | | | |
| Trichloroethene | +++++<br>0.3652 | 0.3610<br>0.3192 | 0.4062 | 0.3628 | 0.3454 | Ave | | 0.3600 | | | 0.2000 | 7.9 | | 20.0 | | | |
| Methylcyclohexane | +++++<br>0.3566 | 0.2113<br>0.3038 | 0.3501 | 0.2981 | 0.3161 | Ave | | 0.3060 | | | 0.1000 | 17.1 | | 20.0 | | | |
| Ethyl acrylate | +++++<br>0.7275 | 0.6163<br>0.5917 | 0.7557 | 0.6881 | 0.6909 | Ave | | 0.6784 | | | | 9.3 | | 20.0 | | | |
| 1,2-Dichloropropane | +++++<br>0.3662 | 0.3736<br>0.3237 | 0.3887 | 0.3745 | 0.3490 | Ave | | 0.3626 | | | 0.1000 | 6.4 | | 20.0 | | | |
| Methyl methacrylate | +++++<br>0.1166 | 0.1192<br>0.1010 | 0.1165 | 0.1116 | 0.1098 | Ave | | 0.1125 | | | | 5.9 | | 20.0 | | | |
| 1,4-Dioxane | +++++<br>1.1683 | 1.3987<br>1.3939 | 1.4755 | 1.2136 | 1.3137 | Ave | | 1.3273 | | | | 8.9 | | 20.0 | | | |
| Dibromomethane | +++++<br>0.2342 | 0.2604<br>0.2038 | 0.2560 | 0.2362 | 0.2281 | Ave | | 0.2365 | | | | 8.7 | | 20.0 | | | |
| n-Propyl acetate | +++++<br>0.4965 | 0.6535<br>0.4051 | 0.4967 | 0.5027 | 0.4749 | Ave | | 0.5049 | | | | 16.1 | | 20.0 | | | |
| Bromodichloromethane | +++++<br>0.4822 | 0.4829<br>0.4146 | 0.5203 | 0.4917 | 0.4575 | Ave | | 0.4749 | | | 0.2000 | 7.5 | | 20.0 | | | |
| 2-Chloroethyl vinyl ether | +++++<br>0.2752 | 0.2622<br>0.2421 | 0.2787 | 0.2459 | 0.2559 | Ave | | 0.2600 | | | | 5.8 | | 20.0 | | | |
| 2-Nitropropane | +++++<br>0.0901 | 0.1048<br>0.0824 | 0.0808 | 0.0711 | 0.0766 | Ave | | 0.0843 | | | | 14.1 | | 20.0 | | | |
| Epichlorohydrin | 0.3649<br>0.3987 | 0.3430<br>0.3378 | 0.4045 | 0.3930 | 0.3888 | Ave | | 0.3758 | | | | 7.3 | | 20.0 | | | |
| cis-1,3-Dichloropropene | +++++<br>0.6994 | 0.6764<br>0.6293 | 0.7154 | 0.6945 | 0.6642 | Ave | | 0.6799 | | | 0.2000 | 4.5 | | 20.0 | | | |
| 4-Methyl-2-pentanone | +++++<br>3.1178 | 3.1843<br>2.2275 | 3.5382 | 3.3296 | 3.1615 | Ave | | 3.0931 | | | 0.0500 | 14.6 | | 20.0 | | | |
| Toluene | +++++<br>1.6298 | 1.8874<br>1.1816 | 1.9377 | 1.6965 | 1.6348 | Ave | | 1.6613 | | | 0.4000 | 16.2 | | 20.0 | | | |
| trans-1,3-Dichloropropene | +++++<br>0.6616 | 0.5824<br>0.5883 | 0.6155 | 0.6242 | 0.6119 | Ave | | 0.6140 | | | 0.1000 | 4.6 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethyl methacrylate | +++++<br>0.4963 | 0.4436<br>0.4186 | 0.5035 | 0.4839 | 0.4687 | Ave | | 0.4691 | | | | 7.0 | | 20.0 | | | |
| 1,1,2-Trichloroethane | +++++<br>0.3466 | 0.3589<br>0.3168 | 0.3649 | 0.3361 | 0.3239 | Ave | | 0.3412 | | | 0.1000 | 5.6 | | 20.0 | | | |
| Tetrachloroethene | +++++<br>0.4455 | 0.4087<br>0.4043 | 0.4521 | 0.4152 | 0.4155 | Ave | | 0.4235 | | | 0.2000 | 4.7 | | 20.0 | | | |
| 1,3-Dichloropropane | +++++<br>0.6634 | 0.6766<br>0.5853 | 0.6881 | 0.6498 | 0.6347 | Ave | | 0.6496 | | | | 5.7 | | 20.0 | | | |
| 2-Hexanone | +++++<br>1.5138 | 1.4690<br>1.2698 | 1.5138 | 1.5229 | 1.3950 | Ave | | 1.4474 | | | 0.0500 | 6.9 | | 20.0 | | | |
| n-Butyl acetate | +++++<br>0.6071 | 0.6385<br>0.5179 | 0.5740 | 0.5600 | 0.5710 | Ave | | 0.5781 | | | | 7.1 | | 20.0 | | | |
| Dibromochloromethane | +++++<br>0.4871 | 0.4374<br>0.4431 | 0.4849 | 0.4605 | 0.4427 | Ave | | 0.4593 | | | 0.1000 | 4.8 | | 20.0 | | | |
| 1,2-Dibromoethane | +++++<br>0.4312 | 0.4454<br>0.3867 | 0.4194 | 0.4305 | 0.4018 | Ave | | 0.4192 | | | 0.1000 | 5.1 | | 20.0 | | | |
| Chlorobenzene | +++++<br>1.1699 | 1.2084<br>0.9119 | 1.2909 | 1.2089 | 1.1517 | Ave | | 1.1570 | | | 0.5000 | 11.2 | | 20.0 | | | |
| Ethylbenzene | +++++<br>0.6065 | 0.6450<br>0.5349 | 0.6188 | 0.5533 | 0.5640 | Ave | | 0.5871 | | | 0.1000 | 7.3 | | 20.0 | | | |
| 1,1,1,2-Tetrachloroethane | +++++<br>0.4497 | 0.4394<br>0.4085 | 0.4203 | 0.4192 | 0.4241 | Ave | | 0.4269 | | | | 3.5 | | 20.0 | | | |
| m&p-Xylene | +++++<br>0.7391 | 0.7441<br>0.6345 | 0.7602 | 0.7053 | 0.6869 | Ave | | 0.7117 | | | 0.1000 | 6.5 | | 20.0 | | | |
| n-Butyl acrylate | +++++<br>0.3801 | 0.3399<br>0.3394 | 0.3364 | 0.3194 | 0.3445 | Ave | | 0.3433 | | | | 5.8 | | 20.0 | | | |
| o-Xylene | +++++<br>0.7583 | 0.7863<br>0.6407 | 0.8137 | 0.7660 | 0.7322 | Ave | | 0.7495 | | | 0.3000 | 8.0 | | 20.0 | | | |
| Styrene | +++++<br>1.2693 | 1.3090<br>0.9130 | 1.3771 | 1.3162 | 1.2821 | Ave | | 1.2444 | | | 0.3000 | 13.4 | | 20.0 | | | |
| Amyl acetate (mixed isomers) | +++++<br>1.2008 | 1.3230<br>0.9751 | 1.2013 | 1.1905 | 1.1907 | Ave | | 1.1803 | | | | 9.6 | | 20.0 | | | |
| Bromoform | +++++<br>0.3529 | 0.4486<br>0.3234 | 0.3693 | 0.3388 | 0.3293 | Ave | | 0.3604 | | | 0.1000 | 12.8 | | 20.0 | | | |
| Isopropylbenzene | +++++<br>1.4590 | 1.4513<br>0.9506 | 1.6213 | 1.5040 | 1.4991 | Ave | | 1.4142 | | | 0.1000 | 16.6 | | 20.0 | | | |
| Bromobenzene | +++++<br>0.9391 | 1.0706<br>0.8335 | 1.0847 | 0.9937 | 0.9504 | Ave | | 0.9787 | | | | 9.5 | | 20.0 | | | |
| 1,1,2,2-Tetrachloroethane | +++++<br>0.9116 | 1.0249<br>0.7835 | 1.0049 | 0.9859 | 0.9367 | Ave | | 0.9413 | | | 0.3000 | 9.4 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| N-Propylbenzene | +++++<br>2.5678 | 2.7460<br>+++++ | 3.2467 | 2.9726 | 2.8977 | Ave | | 2.8862 | | | | 8.8 | | 20.0 | | | |
| 1,2,3-Trichloropropane | +++++<br>0.2689 | 0.2979<br>0.2555 | 0.2926 | 0.2806 | 0.2732 | Ave | | 0.2781 | | | | 5.6 | | 20.0 | | | |
| trans-1,4-Dichloro-2-butene | +++++<br>0.2779 | 0.2749<br>0.2591 | 0.2503 | 0.2892 | 0.2548 | Ave | | 0.2677 | | | | 5.7 | | 20.0 | | | |
| 2-Chlorotoluene | +++++<br>2.0824 | 2.3381<br>1.4357 | 2.5709 | 2.2838 | 2.2347 | Ave | | 2.1576 | | | | 18.0 | | 20.0 | | | |
| 4-Ethyltoluene | +++++<br>2.4267 | 2.8138<br>1.6210 | 2.7818 | 2.4895 | 2.3025 | Ave | | 2.4059 | | | | 18.0 | | 20.0 | | | |
| 1,3,5-Trimethylbenzene | +++++<br>2.0416 | 2.0738<br>1.3783 | 2.4419 | 2.2654 | 2.1986 | Ave | | 2.0666 | | | | 17.7 | | 20.0 | | | |
| 4-Chlorotoluene | +++++<br>1.9981 | 1.9777<br>1.3698 | 2.5336 | 2.2472 | 2.1057 | Ave | | 2.0387 | | | | 18.9 | | 20.0 | | | |
| Butyl Methacrylate | +++++<br>1.1155 | 0.9913<br>0.9190 | 1.0419 | 1.0452 | 1.0638 | Ave | | 1.0294 | | | | 6.5 | | 20.0 | | | |
| tert-Butylbenzene | +++++<br>1.6708 | 1.5587<br>1.2481 | 1.9295 | 1.7381 | 1.6912 | Ave | | 1.6394 | | | | 13.8 | | 20.0 | | | |
| 1,2,4-Trimethylbenzene | +++++<br>2.1561 | 2.3237<br>1.4027 | 2.6630 | 2.4262 | 2.3836 | Ave | | 2.2259 | | | | 19.6 | | 20.0 | | | |
| sec-Butylbenzene | +++++<br>2.1274 | 2.2371<br>1.4211 | 2.5262 | 2.2547 | 2.2584 | Ave | | 2.1375 | | | | 17.5 | | 20.0 | | | |
| 4-Isopropyltoluene | +++++<br>2.0133 | 1.8968<br>1.3263 | 2.3091 | 2.1192 | 2.1159 | Ave | | 1.9634 | | | | 17.3 | | 20.0 | | | |
| 1,3-Dichlorobenzene | +++++<br>1.5360 | 1.7928<br>1.1299 | 1.7315 | 1.6232 | 1.5722 | Ave | | 1.5643 | | | 0.6000 | 14.9 | | 20.0 | | | |
| 1,4-Dichlorobenzene | +++++<br>1.5733 | 1.8478<br>1.1473 | 1.8081 | 1.6847 | 1.6215 | Ave | | 1.6138 | | | 0.5000 | 15.6 | | 20.0 | | | |
| Benzyl chloride | +++++<br>1.8088 | 1.7432<br>1.2823 | 1.6004 | 1.8712 | 1.8421 | Ave | | 1.6913 | | | | 13.1 | | 20.0 | | | |
| Indan | +++++<br>2.6608 | 3.1256<br>+++++ | 3.2642 | 3.1026 | 2.8510 | Ave | | 3.0008 | | | | 8.0 | | 20.0 | | | |
| p-Diethylbenzene | +++++<br>1.2992 | 1.2865<br>1.0097 | 1.3200 | 1.2592 | 1.1305 | Ave | | 1.2175 | | | | 10.0 | | 20.0 | | | |
| n-Butylbenzene | +++++<br>2.0287 | 1.8986<br>1.4514 | 2.3450 | 2.1499 | 2.0260 | Ave | | 1.9833 | | | | 15.2 | | 20.0 | | | |
| 1,2-Dichlorobenzene | +++++<br>1.5584 | 1.6794<br>1.1284 | 1.8788 | 1.6973 | 1.6291 | Ave | | 1.5952 | | | 0.4000 | 15.8 | | 20.0 | | | |
| 1,2,4,5-Tetramethylbenzene | +++++<br>2.0428 | 1.8064<br>1.3675 | 2.2488 | 2.1158 | 2.0084 | Ave | | 1.9316 | | | | 16.2 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dibromo-3-Chloropropane | +++++<br>0.1804 | 0.1532<br>0.1559 | 0.1942 | 0.1811 | 0.1817 | Ave | | 0.1744 | | | 0.0500 | 9.3 | | 20.0 | | | |
| 1,3,5-Trichlorobenzene | +++++<br>0.9833 | 0.9647<br>0.8143 | 1.0341 | 0.9690 | 0.9307 | Ave | | 0.9494 | | | | 7.8 | | 20.0 | | | |
| 1,2,4-Trichlorobenzene | +++++<br>0.9314 | 0.8234<br>0.7963 | 0.9209 | 0.9082 | 0.9279 | Ave | | 0.8847 | | | 0.2000 | 6.7 | | 20.0 | | | |
| Hexachlorobutadiene | +++++<br>0.3986 | 0.3657<br>0.3781 | 0.4700 | 0.3711 | 0.3974 | Ave | | 0.3968 | | | | 9.6 | | 20.0 | | | |
| Naphthalene | +++++<br>2.3029 | 1.7968<br>1.5987 | 2.1413 | 2.3383 | 2.4563 | Ave | | 2.1057 | | | | 16.0 | | 20.0 | | | |
| 1,2,3-Trichlorobenzene | +++++<br>0.7947 | 0.6196<br>0.6731 | 0.7357 | 0.7646 | 0.7995 | Ave | | 0.7312 | | | | 9.8 | | 20.0 | | | |
| Dibromofluoromethane (Surr) | 0.2690<br>0.2662 | 0.2840<br>0.2512 | 0.2828 | 0.2636 | 0.2622 | Ave | | 0.2684 | | | | 4.3 | | 20.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2942<br>0.3047 | 0.3111<br>0.2848 | 0.3037 | 0.2970 | 0.2945 | Ave | | 0.2986 | | | | 2.9 | | 20.0 | | | |
| Toluene-d8 (Surr) | 1.1907<br>1.2299 | 1.2473<br>1.2357 | 1.2120 | 1.2002 | 1.1838 | Ave | | 1.2142 | | | | 2.0 | | 20.0 | | | |
| Bromofluorobenzene | 0.4375<br>0.4448 | 0.4356<br>0.4447 | 0.4306 | 0.4263 | 0.4332 | Ave | | 0.4361 | | | | 1.6 | | 20.0 | | | |

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

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD7 460-359281/2 | J38329.D |
| Level 2 | STD1 460-359281/3 | J38330.D |
| Level 3 | STD5 460-359281/4 | J38331.D |
| Level 4 | STD20 460-359281/5 | J38332.D |
| Level 5 | STD50 460-359281/6 | J38333.D |
| Level 6 | STD200 460-359281/7 | J38334.D |
| Level 7 | STD500 460-359281/8 | J38335.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Chlorotrifluoroethene | FB | Ave | +++++<br>215480 | 908<br>516058 | 3889 | 17755 | 47971 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Dichlorodifluoromethane | FB | Ave | +++++<br>1949752 | 7088<br>3449763 | 47101 | 147387 | 419198 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Chloromethane | FB | Ave | +++++<br>2260857 | 10661<br>4982143 | 56047 | 194757 | 529215 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Vinyl chloride | FB | Ave | +++++<br>2304459 | 10283<br>5018693 | 57133 | 197343 | 523620 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Butadiene | FB | Ave | +++++<br>1939037 | 9036<br>3950944 | 42165 | 148715 | 415820 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Bromomethane | FB | Ave | +++++<br>1613746 | 7002<br>4047717 | 32266 | 125821 | 343978 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Chloroethane | FB | Ave | +++++<br>1349300 | 7922<br>3295882 | 36877 | 112904 | 310667 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Dichlorofluoromethane | FB | Ave | +++++<br>3305453 | 17628<br>7552136 | 85716 | 302962 | 802007 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Trichlorofluoromethane | FB | Ave | +++++<br>2788106 | 12230<br>5696773 | 61711 | 224352 | 608656 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Pentane | TBA | Ave | +++++<br>549596 | 1708<br>1262609 | 10348 | 38884 | 84325 | +++++<br>400 | 2.00<br>1000 | 10.0 | 40.0 | 100 |
| Ethanol | TBA | Ave | +++++<br>284819 | 1418<br>644118 | 6685 | 27892 | 65211 | +++++<br>8000 | 40.0<br>20000 | 200 | 800 | 2000 |
| Ethyl ether | FB | Ave | +++++<br>1416723 | 7137<br>3620552 | 35658 | 127959 | 330930 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 2-Methyl-1,3-butadiene | FB | Ave | +++++<br>1534360 | 5961<br>3647056 | 33854 | 117666 | 267805 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2-Dichloro-1,1,2-trifluoroethane | FB | Ave | +++++<br>1460323 | 5896<br>3570182 | 34418 | 137282 | 328458 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Freon TF | FB | Ave | +++++<br>1556951 | 3544<br>3708756 | 33210 | 128335 | 338503 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |

FORM VI
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RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Acrolein | TBA | Ave | +++++<br>345318 | 7270<br>749562 | 29916 | 59425 | 164730 | +++++<br>200 | 4.00<br>400 | 20.0 | 40.0 | 100 |
| 1,1-Dichloroethene | FB | Ave | +++++<br>1676595 | 6790<br>4115433 | 38385 | 150700 | 380575 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Acetone | BUT | Lin2 | +++++<br>2695801 | 18007<br>6655404 | 66554 | 257518 | 588251 | +++++<br>1000 | 5.00<br>2500 | 25.0 | 100 | 250 |
| Iodomethane | FB | Ave | +++++<br>2914846 | 10064<br>7247935 | 64168 | 251456 | 680255 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Carbon disulfide | FB | Ave | +++++<br>5654076 | 24426<br>12016799 | 147929 | 536118 | 1366343 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Isopropyl alcohol | TBA | Ave | +++++<br>942294 | 4573<br>2188231 | 19076 | 82281 | 229353 | +++++<br>2000 | 10.0<br>5000 | 50.0 | 200 | 500 |
| 3-Chloro-1-propene | FB | Ave | +++++<br>1027357 | 4396<br>2714449 | 24102 | 94964 | 236951 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Cyclopentene | FB | Ave | +++++<br>4567098 | 16502<br>10307279 | 95351 | 360605 | 846208 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Methyl acetate | FB | Ave | +++++<br>5773652 | 29371<br>11797350 | 138683 | 594927 | 1465286 | +++++<br>1000 | 5.00<br>2500 | 25.0 | 100 | 250 |
| Acetonitrile | TBA | Ave | +++++<br>2283100 | 10014<br>5607628 | 52443 | 188925 | 545361 | +++++<br>2000 | 10.0<br>5000 | 50.0 | 200 | 500 |
| Methylene Chloride | FB | Ave | +++++<br>1912705 | 9288<br>4766021 | 48367 | 182763 | 449806 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 2-Methyl-2-propanol | TBA | Lin2 | +++++<br>1580887 | 12024<br>3696465 | 39575 | 162242 | 381882 | +++++<br>2000 | 10.0<br>5000 | 50.0 | 200 | 500 |
| MTBE | FB | Ave | +++++<br>5006817 | 20014<br>11573696 | 127906 | 483083 | 1219260 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| trans-1,2-Dichloroethene | FB | Ave | +++++<br>1876301 | 8812<br>4726491 | 48197 | 172509 | 439934 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Acrylonitrile | TBA | Ave | 7617<br>6347912 | 34114<br>13009640 | 160213 | 634895 | 1620453 | 2.00<br>2000 | 10.0<br>5000 | 50.0 | 200 | 500 |
| Hexane | FB | Lin2 | +++++<br>1431881 | 2590<br>3572670 | 28743 | 116975 | 305482 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Isopropyl ether | FB | Ave | +++++<br>5112010 | 22903<br>11552538 | 125052 | 481105 | 1184229 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,1-Dichloroethane | FB | Ave | +++++<br>3399061 | 15572<br>8513109 | 81692 | 309297 | 794252 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Vinyl acetate | FB | Ave | +++++<br>5737980 | 24580<br>12846320 | 121700 | 608343 | 1542168 | +++++<br>400 | 2.00<br>1000 | 10.0 | 40.0 | 100 |
| 2-Chloro-1,3-butadiene | FB | Ave | +++++<br>1765801 | 5732<br>4381175 | 35935 | 137284 | 337395 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Tert-butyl ethyl ether | FB | Ave | +++++<br>5324251 | 25548<br>12261570 | 126702 | 500706 | 1234057 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |

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RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 2,2-Dichloropropane | FB | Ave | +++++<br>857881 | 4136<br>2311620 | 17981 | 73861 | 196121 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| cis-1,2-Dichloroethene | FB | Ave | +++++<br>2135094 | 11969<br>5395926 | 52407 | 198923 | 499440 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 2-Butanone | BUT | Ave | +++++<br>1161402 | 6258<br>2921671 | 24834 | 115497 | 265580 | +++++<br>1000 | 5.00<br>2500 | 25.0 | 100 | 250 |
| Ethyl acetate | BUT | Ave | +++++<br>6758901 | 35601<br>13840472 | 169331 | 662398 | 1643265 | +++++<br>400 | 2.00<br>1000 | 10.0 | 40.0 | 100 |
| Methyl acrylate | FB | Ave | +++++<br>1729453 | 8496<br>4285742 | 38889 | 159208 | 401391 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Propionitrile | TBA | Ave | +++++<br>2770097 | 14507<br>6521473 | 65394 | 247781 | 653958 | +++++<br>2000 | 10.0<br>5000 | 50.0 | 200 | 500 |
| Tetrahydrofuran | BUT | Ave | +++++<br>511472 | 3104<br>1244803 | 11727 | 49717 | 118163 | +++++<br>400 | 2.00<br>1000 | 10.0 | 40.0 | 100 |
| Bromochloromethane | FB | Ave | +++++<br>1091815 | 5366<br>2805713 | 27739 | 98974 | 247776 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Methacrylonitrile | FB | Ave | +++++<br>7835661 | 41025<br>15246929 | 191480 | 768233 | 1983559 | +++++<br>2000 | 10.0<br>5000 | 50.0 | 200 | 500 |
| Chloroform | FB | Ave | +++++<br>3275372 | 13654<br>7838013 | 75433 | 293643 | 775291 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Cyclohexane | FB | Ave | +++++<br>2319434 | 6090<br>5441541 | 49695 | 188448 | 508194 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,1,1-Trichloroethane | FB | Ave | +++++<br>2627290 | 12102<br>6481298 | 60077 | 230107 | 606382 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Carbon tetrachloride | FB | Ave | +++++<br>2310492 | 8840<br>5621174 | 50804 | 191734 | 508352 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,1-Dichloropropene | FB | Ave | +++++<br>2478147 | 10836<br>6073922 | 61390 | 212468 | 556511 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Isobutyl alcohol | TBA | Ave | +++++<br>2223750 | 7770<br>5256576 | 40021 | 197240 | 473234 | +++++<br>5000 | 25.0<br>12500 | 125 | 500 | 1250 |
| Isooctane | FB | Ave | +++++<br>2945879 | 8381<br>7482755 | 53114 | 222521 | 449949 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Benzene | CBZ | Ave | +++++<br>7228525 | 32652<br>14812102 | 188359 | 707520 | 1782407 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Tert-amyl methyl ether | FB | Ave | +++++<br>5449625 | 23557<br>12454826 | 128039 | 509619 | 1258897 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Isopropyl acetate | FB | Ave | +++++<br>4904620 | 23198<br>10659900 | 118331 | 443437 | 1128854 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2-Dichloroethane | FB | Ave | +++++<br>2529080 | 12109<br>6155865 | 61947 | 235862 | 591522 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| n-Heptane | FB | Lin2 | +++++<br>666723 | 1214<br>1734937 | 13048 | 56092 | 142099 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |

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Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| n-Butanol | TBA | Ave | +++++<br>1243640 | 4157<br>2817230 | 24145 | 98346 | 286986 | +++++<br>5000 | 25.0<br>12500 | 125 | 500 | 1250 |
| Trichloroethene | FB | Ave | +++++<br>1963513 | 8258<br>4896823 | 47283 | 177266 | 442395 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Methylcyclohexane | FB | Ave | +++++<br>1917663 | 4833<br>4660894 | 40756 | 145693 | 404763 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Ethyl acrylate | FB | Ave | +++++<br>3911818 | 14100<br>9076805 | 87964 | 336234 | 884851 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2-Dichloropropane | FB | Ave | +++++<br>1968976 | 8548<br>4965401 | 45247 | 183023 | 447014 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Methyl methacrylate | FB | Ave | +++++<br>1254394 | 5454<br>3097680 | 27119 | 109096 | 281306 | +++++<br>400 | 2.00<br>1000 | 10.0 | 40.0 | 100 |
| 1,4-Dioxane | DXE | Ave | +++++<br>451005 | 5191<br>991599 | 10652 | 42596 | 110376 | +++++<br>4000 | 50.0<br>10000 | 100 | 400 | 1000 |
| Dibromomethane | FB | Ave | +++++<br>1259553 | 5958<br>3125784 | 29803 | 115425 | 292075 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| n-Propyl acetate | FB | Ave | +++++<br>2669518 | 14951<br>6214313 | 57816 | 245651 | 608143 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Bromodichloromethane | FB | Ave | +++++<br>2592680 | 11048<br>6360965 | 60563 | 240284 | 585959 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | +++++<br>1479730 | 5999<br>3713437 | 32445 | 120184 | 327685 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 2-Nitropropane | FB | Ave | +++++<br>968921 | 4796<br>2526978 | 18800 | 69529 | 196279 | +++++<br>400 | 2.00<br>1000 | 10.0 | 40.0 | 100 |
| Epichlorohydrin | BUT | Ave | 3972<br>4057171 | 15408<br>9146950 | 90768 | 385337 | 980732 | 5.00<br>4000 | 20.0<br>10000 | 100 | 400 | 1000 |
| cis-1,3-Dichloropropene | CBZ | Ave | +++++<br>3381407 | 14312<br>8215207 | 77236 | 311665 | 774532 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 4-Methyl-2-pentanone | BUT | Ave | +++++<br>7931941 | 35762<br>15080749 | 198493 | 816202 | 1993439 | +++++<br>1000 | 5.00<br>2500 | 25.0 | 100 | 250 |
| Toluene | CBZ | Ave | +++++<br>7879400 | 39937<br>15425950 | 209190 | 761392 | 1906409 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| trans-1,3-Dichloropropene | CBZ | Ave | +++++<br>3198431 | 12324<br>7680371 | 66450 | 280135 | 713584 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Ethyl methacrylate | FB | Ave | +++++<br>2668704 | 10148<br>6421730 | 58609 | 236476 | 600280 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | +++++<br>1675863 | 7594<br>4135352 | 39395 | 150857 | 377677 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Tetrachloroethene | CBZ | Ave | +++++<br>2153719 | 8649<br>5277543 | 48804 | 186324 | 484576 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,3-Dichloropropane | CBZ | Ave | +++++<br>3207075 | 14317<br>7641027 | 74283 | 291613 | 740123 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |

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Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 2-Hexanone | BUT | Ave | +++++<br>3851361 | 16498<br>8596721 | 84924 | 373323 | 879604 | +++++<br>1000 | 5.00<br>2500 | 25.0 | 100 | 250 |
| n-Butyl acetate | CBZ | Ave | +++++<br>2935035 | 13510<br>6761466 | 61964 | 251345 | 665839 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Dibromochloromethane | CBZ | Ave | +++++<br>2354802 | 9256<br>5784035 | 52352 | 206676 | 516283 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2-Dibromoethane | CBZ | Ave | +++++<br>2084849 | 9424<br>5047975 | 45282 | 193184 | 468575 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Chlorobenzene | CBZ | Ave | +++++<br>5656231 | 25570<br>11905513 | 139367 | 542529 | 1343123 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Ethylbenzene | CBZ | Ave | +++++<br>2932295 | 13649<br>6983027 | 66806 | 248298 | 657700 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | +++++<br>2174329 | 9298<br>5333277 | 45377 | 188126 | 494532 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| m&p-Xylene | CBZ | Ave | +++++<br>3573341 | 15746<br>8282968 | 82072 | 316536 | 801079 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| n-Butyl acrylate | CBZ | Ave | +++++<br>1837565 | 7193<br>4430759 | 36315 | 143358 | 401771 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| o-Xylene | CBZ | Ave | +++++<br>3665997 | 16638<br>8364524 | 87849 | 343766 | 853873 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Styrene | CBZ | Ave | +++++<br>6136699 | 27699<br>11918927 | 148670 | 590701 | 1495094 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Amyl acetate (mixed isomers) | DCB | Ave | +++++<br>3527847 | 16230<br>7593654 | 75197 | 314624 | 821067 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Bromoform | CBZ | Ave | +++++<br>1706330 | 9492<br>4222298 | 39870 | 152032 | 384040 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Isopropylbenzene | CBZ | Ave | +++++<br>7053923 | 30709<br>12410501 | 175031 | 674984 | 1748241 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Bromobenzene | DCB | Ave | +++++<br>2758801 | 13134<br>6491032 | 67899 | 262604 | 655371 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | +++++<br>2678169 | 12573<br>6101432 | 62904 | 260545 | 645914 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| N-Propylbenzene | DCB | Ave | +++++<br>7543532 | 33688<br>+++++ | 203225 | 785562 | 1998173 | +++++<br>200 | 1.00<br>+++++ | 5.00 | 20.0 | 50.0 |
| 1,2,3-Trichloropropane | DCB | Ave | +++++<br>789837 | 3654<br>1989940 | 18318 | 74143 | 188367 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | +++++<br>816558 | 3373<br>2017845 | 15665 | 76419 | 175689 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 2-Chlorotoluene | DCB | Ave | +++++<br>6117773 | 28684<br>11180613 | 160926 | 603533 | 1540951 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 4-Ethyltoluene | DCB | Ave | +++++<br>7129140 | 34519<br>12623216 | 174129 | 657889 | 1587696 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,3,5-Trimethylbenzene | DCB | Ave | +++++<br>5997905 | 25441<br>10733778 | 152852 | 598681 | 1516091 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 4-Chlorotoluene | DCB | Ave | +++++<br>5870001 | 24262<br>10667359 | 158592 | 593868 | 1452047 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Butyl Methacrylate | DCB | Ave | +++++<br>3277233 | 12161<br>7156704 | 65215 | 276218 | 733546 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| tert-Butylbenzene | DCB | Ave | +++++<br>4908458 | 19122<br>9719460 | 120777 | 459317 | 1166176 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | +++++<br>6334083 | 28507<br>10923557 | 166689 | 641167 | 1643676 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| sec-Butylbenzene | DCB | Ave | +++++<br>6249818 | 27444<br>11066878 | 158128 | 595860 | 1557345 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 4-Isopropyltoluene | DCB | Ave | +++++<br>5914738 | 23270<br>10328567 | 144539 | 560047 | 1459033 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,3-Dichlorobenzene | DCB | Ave | +++++<br>4512394 | 21994<br>8798932 | 108381 | 428974 | 1084132 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,4-Dichlorobenzene | DCB | Ave | +++++<br>4622059 | 22668<br>8934641 | 113180 | 445216 | 1118101 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Benzyl chloride | DCB | Ave | +++++<br>5313781 | 21385<br>9985758 | 100179 | 494515 | 1270241 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Indan | DCB | Ave | +++++<br>7816786 | 38344<br>+++++ | 204321 | 819924 | 1965963 | +++++<br>200 | 1.00<br>+++++ | 5.00 | 20.0 | 50.0 |
| p-Diethylbenzene | DCB | Ave | +++++<br>3816760 | 15783<br>7863106 | 82624 | 332780 | 779576 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| n-Butylbenzene | DCB | Ave | +++++<br>5959804 | 23292<br>11302462 | 146783 | 568162 | 1397025 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2-Dichlorobenzene | DCB | Ave | +++++<br>4578365 | 20602<br>8787617 | 117606 | 448545 | 1123353 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2,4,5-Tetramethylbenzene | DCB | Ave | +++++<br>6001252 | 22161<br>10649608 | 140764 | 559146 | 1384937 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | +++++<br>530021 | 1879<br>1214003 | 12155 | 47853 | 125316 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | +++++<br>2888764 | 11835<br>6340996 | 64728 | 256086 | 641795 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | +++++<br>2736121 | 10101<br>6201202 | 57644 | 240001 | 639828 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Hexachlorobutadiene | DCB | Ave | +++++<br>1171067 | 4486<br>2944673 | 29417 | 98083 | 273999 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| Naphthalene | DCB | Ave | +++++<br>6765438 | 22043<br>12449450 | 134033 | 617954 | 1693770 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | +++++<br>2334701 | 7601<br>5241443 | 46051 | 202053 | 551315 | +++++<br>200 | 1.00<br>500 | 5.00 | 20.0 | 50.0 |

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

Lab Name: TestAmerica Edison Job No.: 460-112643-1 Analy Batch No.: 359281

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2016 03:17 Calibration End Date: 03/29/2016 08:09 Calibration ID: 55110

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dibromofluoromethane (Surr) | FB | Ave | 323189<br>357885 | 324899<br>385296 | 329205 | 322000 | 335762 | 50.0<br>50.0 | 50.0<br>50.0 | 50.0 | 50.0 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 353376<br>409591 | 355891<br>436894 | 353531 | 362830 | 377206 | 50.0<br>50.0 | 50.0<br>50.0 | 50.0 | 50.0 | 50.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 1301924<br>1486488 | 1319613<br>1613220 | 1308425 | 1346634 | 1380518 | 50.0<br>50.0 | 50.0<br>50.0 | 50.0 | 50.0 | 50.0 |
| Bromofluorobenzene | CBZ | Ave | 478351<br>537573 | 460912<br>580579 | 464862 | 478347 | 505172 | 50.0<br>50.0 | 50.0<br>50.0 | 50.0 | 50.0 | 50.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38329.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Mar-2016 03:17:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0039111-002
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:06:07 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: nimerd Date: 29-Mar-2016 10:53:41

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 26 TBA-d9 (IS) | 65 | 2.903 | 2.903 | 0.000 | 80 | 468844 | 1000.0 | 1000.0 | |
| 31 Acrylonitrile | 53 | 3.256 | 3.256 | 0.000 | 61 | 7617 | 2.00 | 2.61 | M |
| * 38 2-Butanone-d5 | 46 | 4.255 | 4.255 | 0.000 | 88 | 544327 | 250.0 | 250.0 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.825 | 4.825 | 0.000 | 98 | 323189 | 50.0 | 50.1 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.242 | 5.242 | 0.000 | 96 | 353376 | 50.0 | 49.3 | |
| * 62 Fluorobenzene | 96 | 5.559 | 5.559 | 0.000 | 99 | 1201341 | 50.0 | 50.0 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.370 | 6.370 | 0.000 | 96 | 74472 | 1000.0 | 1000.0 | |
| 76 Epichlorohydrin | 57 | 7.134 | 7.134 | 0.000 | 37 | 3972 | 5.00 | 4.85 | M |
| $ 79 Toluene-d8 (Surr) | 98 | 7.463 | 7.463 | 0.000 | 100 | 1301924 | 50.0 | 49.0 | |
| * 90 Chlorobenzene-d5 | 117 | 9.390 | 9.390 | 0.000 | 84 | 1093407 | 50.0 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.559 | 0.000 | 98 | 478351 | 50.0 | 50.2 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.429 | 11.429 | 0.000 | 94 | 623550 | 50.0 | 50.0 | |

## QC Flag Legend

Review Flags
M - Manually Integrated

## Reagents:

| | | | | |
|---|---|---|---|---|
| ACROLEIN W_00049 | Amount Added: | 0.00 | Units: uL | |
| GAS Hi_00140 | Amount Added: | 0.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 0.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 0.00 | Units: uL | |
| ACRY/EPIH MIX_00019 | Amount Added: | 2.00 | Units: uL | |
| 14DIOXINTER_00055 | Amount Added: | 0.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

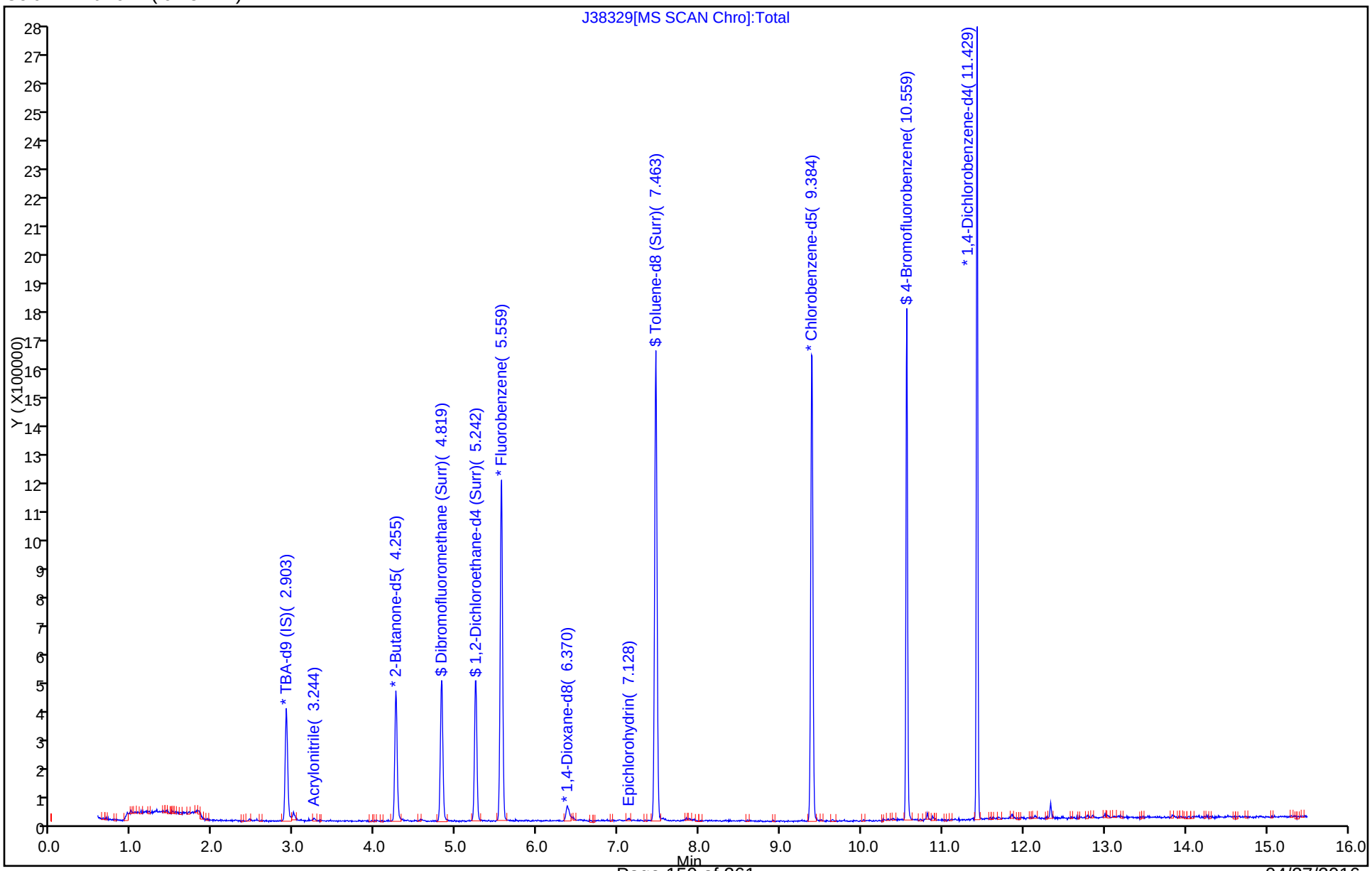
Report Date: 30-Mar-2016 16:06:18 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38329.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 29-Mar-2016 03:17:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | STD7 | | | Worklist Smp#: | 2 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 1 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38330.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Mar-2016 03:43:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0039111-003
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:07:29 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: nimerd Date: 29-Mar-2016 11:00:20

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.679 | 0.671 | 0.008 | 32 | 908 | 1.00 | 1.08 | |
| 2 Dichlorodifluoromethane | 85 | 0.714 | 0.706 | 0.008 | 97 | 7088 | 1.00 | 0.9628 | |
| 3 Chloromethane | 50 | 0.920 | 0.912 | 0.008 | 98 | 10661 | 1.00 | 1.12 | |
| 4 Vinyl chloride | 62 | 1.025 | 1.023 | 0.002 | 96 | 10283 | 1.00 | 1.08 | |
| 5 Butadiene | 54 | 1.055 | 1.058 | -0.003 | 93 | 9036 | 1.00 | 1.18 | |
| 6 Bromomethane | 94 | 1.395 | 1.393 | 0.002 | 87 | 7002 | 1.00 | 1.10 | |
| 7 Chloroethane | 64 | 1.513 | 1.499 | 0.014 | 60 | 7922 | 1.00 | 1.30 | |
| 8 Dichlorofluoromethane | 67 | 1.730 | 1.734 | -0.004 | 97 | 17628 | 1.00 | 1.20 | |
| 9 Trichlorofluoromethane | 101 | 1.736 | 1.734 | 0.002 | 70 | 12230 | 1.00 | 1.11 | |
| 10 Pentane | 72 | 1.807 | 1.793 | 0.014 | 97 | 1708 | 2.00 | 1.78 | M |
| 11 Ethanol | 46 | 2.012 | 2.016 | -0.004 | 2 | 1418 | 40.0 | 45.6 | |
| 12 Ethyl ether | 59 | 2.065 | 2.063 | 0.002 | 80 | 7137 | 1.00 | 1.14 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.083 | 2.075 | 0.008 | 87 | 5961 | 1.00 | 1.03 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.136 | 2.122 | 0.014 | 38 | 5896 | 1.00 | 0.9694 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.265 | 2.263 | 0.002 | 44 | 3544 | 1.00 | 0.6203 | |
| 16 Acrolein | 56 | 2.289 | 2.286 | 0.003 | 66 | 7270 | 4.00 | 4.76 | |
| 17 1,1-Dichloroethene | 96 | 2.318 | 2.316 | 0.002 | 96 | 6790 | 1.00 | 0.9827 | |
| 18 Acetone | 43 | 2.453 | 2.451 | 0.002 | 89 | 18007 | 5.00 | 4.95 | |
| 19 Iodomethane | 142 | 2.506 | 2.504 | 0.002 | 98 | 10064 | 1.00 | 0.8650 | |
| 20 Carbon disulfide | 76 | 2.541 | 2.533 | 0.008 | 98 | 24426 | 1.00 | 1.01 | |
| 21 Isopropyl alcohol | 45 | 2.571 | 2.574 | -0.003 | 76 | 4573 | 10.0 | 11.5 | |
| 22 3-Chloro-1-propene | 76 | 2.735 | 2.727 | 0.008 | 71 | 4396 | 1.00 | 1.01 | |
| 24 Cyclopentene | 67 | 2.753 | 2.751 | 0.002 | 77 | 16502 | 1.00 | 0.9703 | |
| 23 Methyl acetate | 43 | 2.764 | 2.762 | 0.002 | 95 | 29371 | 5.00 | 5.77 | |
| 25 Acetonitrile | 41 | 2.835 | 2.833 | 0.002 | 74 | 10014 | 10.0 | 10.4 | |
| 27 Methylene Chloride | 84 | 2.900 | 2.892 | 0.008 | 30 | 9288 | 1.00 | 1.10 | |
| * 26 TBA-d9 (IS) | 65 | 2.911 | 2.903 | 0.008 | 81 | 486367 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.994 | 2.991 | 0.003 | 84 | 12024 | 10.0 | 9.93 | |
| 29 Methyl tert-butyl ether | 73 | 3.111 | 3.103 | 0.008 | 92 | 20014 | 1.00 | 0.9374 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.135 | 3.132 | 0.003 | 91 | 8812 | 1.00 | 1.07 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.246 | 3.256 | -0.010 | 97 | 34114 | 10.0 | 11.3 | |
| 32 Hexane | 57 | 3.334 | 3.332 | 0.002 | 48 | 2590 | 1.00 | 0.9839 | |
| 33 Isopropyl ether | 45 | 3.605 | 3.608 | -0.003 | 91 | 22903 | 1.00 | 1.06 | |
| 34 1,1-Dichloroethane | 63 | 3.646 | 3.644 | 0.002 | 74 | 15572 | 1.00 | 1.07 | |
| 35 Vinyl acetate | 43 | 3.675 | 3.673 | 0.002 | 99 | 24580 | 2.00 | 1.99 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.687 | 3.691 | -0.004 | 38 | 5732 | 1.00 | 0.8752 | |
| 37 Tert-butyl ethyl ether | 59 | 3.998 | 4.002 | -0.004 | 88 | 25548 | 1.00 | 1.12 | |
| 39 2,2-Dichloropropane | 79 | 4.269 | 4.249 | 0.020 | 47 | 4136 | 1.00 | 1.14 | |
| * 38 2-Butanone-d5 | 46 | 4.257 | 4.255 | 0.002 | 88 | 561539 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.286 | 4.284 | 0.002 | 86 | 11969 | 1.00 | 1.25 | |
| 41 2-Butanone (MEK) | 72 | 4.321 | 4.319 | 0.002 | 96 | 6258 | 5.00 | 6.01 | |
| 42 Ethyl acetate | 43 | 4.333 | 4.325 | 0.008 | 91 | 35601 | 2.00 | 2.35 | |
| 43 Methyl acrylate | 55 | 4.392 | 4.390 | 0.002 | 67 | 8496 | 1.00 | 1.15 | M |
| 44 Propionitrile | 54 | 4.492 | 4.484 | 0.008 | 98 | 14507 | 10.0 | 11.9 | |
| 46 Chlorobromomethane | 128 | 4.562 | 4.560 | 0.002 | 44 | 5366 | 1.00 | 1.12 | |
| 45 Tetrahydrofuran | 72 | 4.556 | 4.560 | -0.004 | 1 | 3104 | 2.00 | 2.63 | |
| 47 Methacrylonitrile | 67 | 4.615 | 4.607 | 0.008 | 87 | 41025 | 10.0 | 11.9 | |
| 48 Chloroform | 83 | 4.627 | 4.625 | 0.002 | 57 | 13654 | 1.00 | 1.00 | |
| 49 Cyclohexane | 56 | 4.780 | 4.760 | 0.020 | 62 | 6090 | 1.00 | 0.7062 | M |
| 50 1,1,1-Trichloroethane | 97 | 4.786 | 4.789 | -0.003 | 63 | 12102 | 1.00 | 1.09 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.821 | 4.825 | -0.004 | 97 | 324899 | 50.0 | 52.9 | |
| 52 Carbon tetrachloride | 117 | 4.921 | 4.924 | -0.003 | 51 | 8840 | 1.00 | 0.9627 | |
| 53 1,1-Dichloropropene | 75 | 4.985 | 4.977 | 0.008 | 94 | 10836 | 1.00 | 1.04 | |
| 54 Isobutyl alcohol | 43 | 5.156 | 5.142 | 0.014 | 32 | 7770 | 25.0 | 22.7 | |
| 55 Isooctane | 57 | 5.168 | 5.171 | -0.003 | 88 | 8381 | 1.00 | 0.8248 | M |
| 56 Benzene | 78 | 5.215 | 5.212 | 0.003 | 90 | 32652 | 1.00 | 1.03 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.238 | 5.242 | -0.004 | 96 | 355891 | 50.0 | 52.1 | |
| 59 Tert-amyl methyl ether | 73 | 5.297 | 5.289 | 0.008 | 77 | 23557 | 1.00 | 1.03 | |
| 58 Isopropyl acetate | 43 | 5.291 | 5.295 | -0.004 | 90 | 23198 | 1.00 | 1.12 | |
| 60 1,2-Dichloroethane | 62 | 5.332 | 5.324 | 0.008 | 87 | 12109 | 1.00 | 1.10 | |
| 61 n-Heptane | 57 | 5.391 | 5.400 | -0.009 | 1 | 1214 | 1.00 | 0.9898 | |
| * 62 Fluorobenzene | 96 | 5.555 | 5.559 | -0.004 | 99 | 1143853 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.920 | 5.917 | 0.003 | 41 | 4157 | 25.0 | 21.8 | |
| 64 Trichloroethene | 95 | 5.955 | 5.959 | -0.004 | 62 | 8258 | 1.00 | 1.00 | |
| 66 Methylcyclohexane | 83 | 6.096 | 6.100 | -0.004 | 61 | 4833 | 1.00 | 0.6904 | M |
| 65 Ethyl acrylate | 55 | 6.125 | 6.111 | 0.014 | 95 | 14100 | 1.00 | 0.9086 | M |
| 67 1,2-Dichloropropane | 63 | 6.307 | 6.299 | 0.008 | 85 | 8548 | 1.00 | 1.03 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.378 | 6.370 | 0.008 | 96 | 74224 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.396 | 6.393 | 0.003 | 69 | 5454 | 2.00 | 2.12 | |
| 70 1,4-Dioxane | 88 | 6.431 | 6.434 | -0.003 | 29 | 5191 | 50.0 | 52.7 | |
| 72 Dibromomethane | 93 | 6.448 | 6.446 | 0.002 | 75 | 5958 | 1.00 | 1.10 | |
| 71 n-Propyl acetate | 43 | 6.466 | 6.458 | 0.008 | 84 | 14951 | 1.00 | 1.29 | |
| 73 Dichlorobromomethane | 83 | 6.625 | 6.617 | 0.008 | 98 | 11048 | 1.00 | 1.02 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.007 | 7.010 | -0.003 | 73 | 5999 | 1.00 | 1.01 | |
| 75 2-Nitropropane | 41 | 7.018 | 7.016 | 0.002 | 80 | 4796 | 2.00 | 2.49 | |
| 76 Epichlorohydrin | 57 | 7.130 | 7.134 | -0.004 | 96 | 15408 | 20.0 | 18.3 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.183 | 7.187 | -0.004 | 92 | 14312 | 1.00 | 0.99 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.377 | 7.380 | -0.003 | 94 | 35762 | 5.00 | 5.15 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.459 | 7.463 | -0.004 | 100 | 1319613 | 50.0 | 51.4 | |
| 80 Toluene | 91 | 7.547 | 7.545 | 0.002 | 96 | 39937 | 1.00 | 1.14 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.935 | 7.933 | 0.002 | 91 | 12324 | 1.00 | 0.9486 | |
| 82 Ethyl methacrylate | 69 | 7.970 | 7.962 | 0.008 | 61 | 10148 | 1.00 | 0.9456 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.164 | 8.168 | -0.004 | 93 | 7594 | 1.00 | 1.05 | M |
| 84 Tetrachloroethene | 166 | 8.199 | 8.209 | -0.010 | 88 | 8649 | 1.00 | 0.9651 | M |
| 85 1,3-Dichloropropane | 76 | 8.405 | 8.403 | 0.002 | 94 | 14317 | 1.00 | 1.04 | |
| 86 2-Hexanone | 58 | 8.481 | 8.473 | 0.008 | 94 | 16498 | 5.00 | 5.07 | |
| 87 n-Butyl acetate | 43 | 8.587 | 8.591 | -0.004 | 95 | 13510 | 1.00 | 1.10 | |
| 88 Chlorodibromomethane | 129 | 8.658 | 8.650 | 0.008 | 72 | 9256 | 1.00 | 0.9524 | |
| 89 Ethylene Dibromide | 107 | 8.834 | 8.826 | 0.008 | 94 | 9424 | 1.00 | 1.06 | |
| * 90 Chlorobenzene-d5 | 117 | 9.386 | 9.390 | -0.004 | 84 | 1058007 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.421 | 9.419 | 0.002 | 93 | 25570 | 1.00 | 1.04 | |
| 92 Ethylbenzene | 106 | 9.515 | 9.507 | 0.008 | 96 | 13649 | 1.00 | 1.10 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.527 | 9.525 | 0.002 | 72 | 9298 | 1.00 | 1.03 | |
| 94 m-Xylene & p-Xylene | 106 | 9.639 | 9.642 | -0.003 | 95 | 15746 | 1.00 | 1.05 | |
| 95 n-Butyl acrylate | 73 | 10.027 | 10.030 | -0.003 | 91 | 7193 | 1.00 | 0.99 | |
| 96 o-Xylene | 106 | 10.050 | 10.054 | -0.004 | 95 | 16638 | 1.00 | 1.05 | |
| 97 Styrene | 104 | 10.085 | 10.083 | 0.002 | 96 | 27699 | 1.00 | 1.05 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.238 | 10.236 | 0.002 | 89 | 16230 | 1.00 | 1.12 | |
| 99 Bromoform | 173 | 10.279 | 10.277 | 0.002 | 90 | 9492 | 1.00 | 1.24 | |
| 100 Isopropylbenzene | 105 | 10.379 | 10.383 | -0.004 | 95 | 30709 | 1.00 | 1.03 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.555 | 10.559 | -0.004 | 96 | 460912 | 50.0 | 49.9 | |
| 102 Bromobenzene | 156 | 10.679 | 10.677 | 0.002 | 89 | 13134 | 1.00 | 1.09 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.702 | 10.706 | -0.004 | 97 | 12573 | 1.00 | 1.09 | |
| 104 N-Propylbenzene | 91 | 10.726 | 10.729 | -0.003 | 99 | 33688 | 1.00 | 0.9515 | |
| 105 1,2,3-Trichloropropane | 110 | 10.755 | 10.747 | 0.008 | 93 | 3654 | 1.00 | 1.07 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.755 | 10.759 | -0.004 | 74 | 3373 | 1.00 | 1.03 | |
| 107 4-Ethyltoluene | 105 | 10.820 | 10.818 | 0.002 | 89 | 34519 | 1.00 | 1.17 | |
| 108 2-Chlorotoluene | 91 | 10.820 | 10.818 | 0.002 | 88 | 28684 | 1.00 | 1.08 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.873 | 10.870 | 0.003 | 97 | 25441 | 1.00 | 1.00 | |
| 110 4-Chlorotoluene | 91 | 10.908 | 10.912 | -0.004 | 93 | 24262 | 1.00 | 0.9701 | |
| 111 Butyl Methacrylate | 87 | 10.937 | 10.935 | 0.002 | 90 | 12161 | 1.00 | 0.9629 | |
| 112 tert-Butylbenzene | 119 | 11.108 | 11.105 | 0.003 | 97 | 19122 | 1.00 | 0.9508 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.155 | 11.152 | 0.003 | 96 | 28507 | 1.00 | 1.04 | |
| 114 sec-Butylbenzene | 105 | 11.266 | 11.264 | 0.002 | 98 | 27444 | 1.00 | 1.05 | |
| 115 4-Isopropyltoluene | 119 | 11.360 | 11.364 | -0.004 | 96 | 23270 | 1.00 | 0.9661 | |
| 116 1,3-Dichlorobenzene | 146 | 11.378 | 11.376 | 0.002 | 82 | 21994 | 1.00 | 1.15 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.425 | 11.429 | -0.004 | 94 | 613392 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.443 | 11.440 | 0.003 | 89 | 22668 | 1.00 | 1.14 | |
| 119 Benzyl chloride | 91 | 11.542 | 11.540 | 0.002 | 98 | 21385 | 1.00 | 1.03 | |
| 120 2,3-Dihydroindene | 117 | 11.589 | 11.587 | 0.002 | 91 | 38344 | 1.00 | 1.04 | |
| 121 p-Diethylbenzene | 119 | 11.613 | 11.617 | -0.004 | 94 | 15783 | 1.00 | 1.06 | |
| 122 n-Butylbenzene | 91 | 11.631 | 11.634 | -0.003 | 95 | 23292 | 1.00 | 0.9573 | |
| 123 1,2-Dichlorobenzene | 146 | 11.695 | 11.693 | 0.002 | 96 | 20602 | 1.00 | 1.05 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.136 | 12.134 | 0.002 | 96 | 22161 | 1.00 | 0.9352 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.230 | 12.234 | -0.004 | 33 | 1879 | 1.00 | 0.8782 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.324 | 12.322 | 0.002 | 92 | 11835 | 1.00 | 1.02 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.788 | 12.786 | 0.002 | 89 | 10101 | 1.00 | 0.9307 | |
| 128 Hexachlorobutadiene | 225 | 12.847 | 12.850 | -0.003 | 86 | 4486 | 1.00 | 0.9215 | |
| 129 Naphthalene | 128 | 12.994 | 12.991 | 0.003 | 98 | 22043 | 1.00 | 0.8533 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.176 | 13.180 | -0.004 | 95 | 7601 | 1.00 | 0.8474 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 2.00 | 2.32 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 2.00 | 2.09 | |
| S 133 Total BTEX | 1 | | | | 0 | | 5.00 | 5.36 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | | |
|---|---|---|---|---|
| GAS Hi_00140 | Amount Added: | 1.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 1.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 1.00 | Units: uL | |
| ACROLEIN W_00049 | Amount Added: | 4.00 | Units: uL | |
| 14DIOXINTER_00055 | Amount Added: | 30.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 30-Mar-2016 16:07:34 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38330.D

Injection Date: 29-Mar-2016 03:43:30 Instrument ID: CVOAMS8 Operator ID:

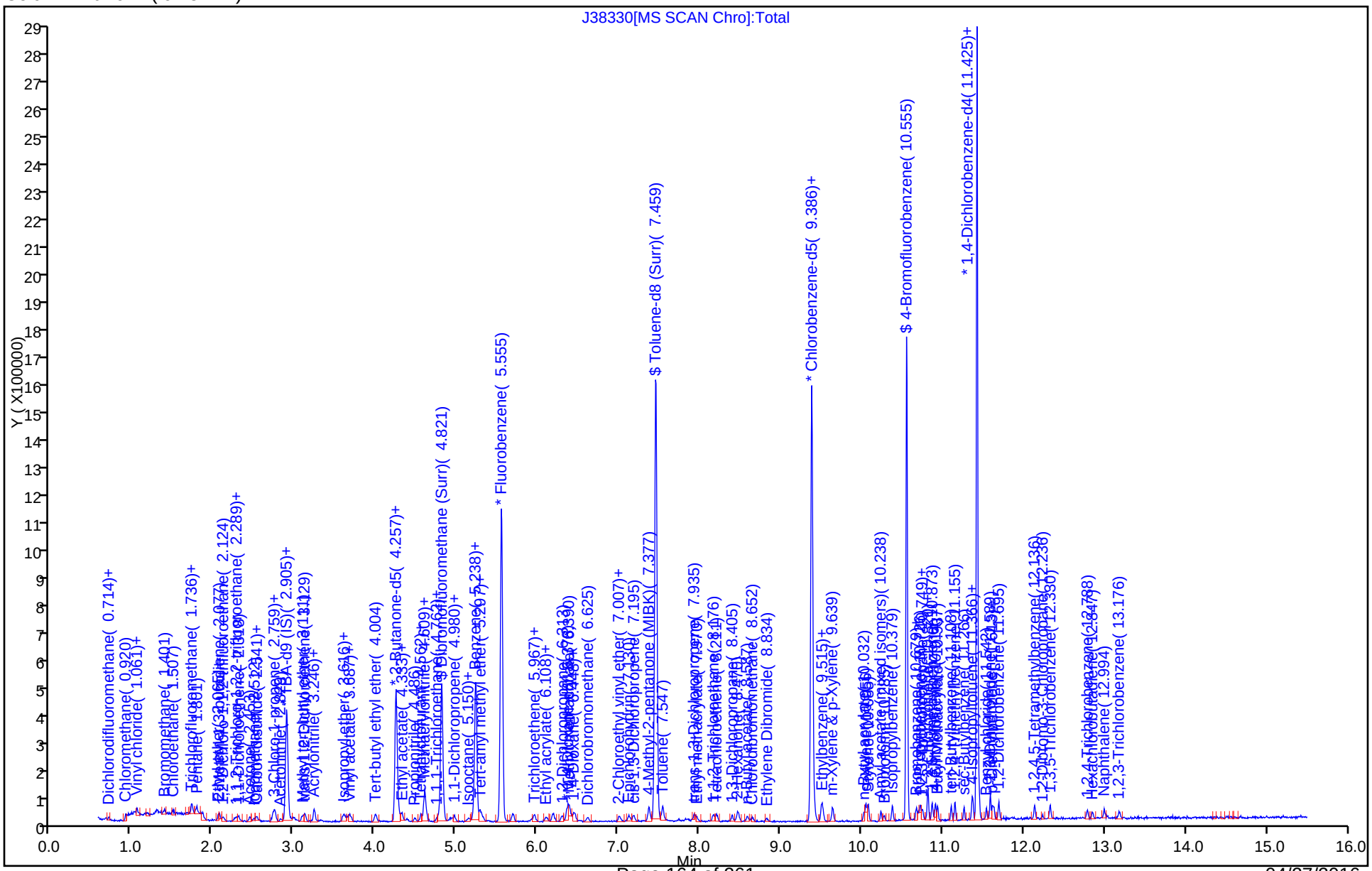
Lims ID: STD1 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38331.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Mar-2016 04:09:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0039111-004
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:07:48 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: kluseys Date: 29-Mar-2016 13:09:17

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.671 | 0.671 | 0.000 | 90 | 3889 | 5.00 | 4.54 | |
| 2 Dichlorodifluoromethane | 85 | 0.706 | 0.706 | 0.000 | 97 | 47101 | 5.00 | 6.29 | |
| 3 Chloromethane | 50 | 0.912 | 0.912 | 0.000 | 99 | 56047 | 5.00 | 5.77 | |
| 4 Vinyl chloride | 62 | 1.018 | 1.023 | -0.005 | 98 | 57133 | 5.00 | 5.87 | |
| 5 Butadiene | 54 | 1.053 | 1.058 | -0.005 | 93 | 42165 | 5.00 | 5.42 | |
| 6 Bromomethane | 94 | 1.388 | 1.393 | -0.005 | 98 | 32266 | 5.00 | 4.97 | |
| 7 Chloroethane | 64 | 1.499 | 1.499 | 0.000 | 98 | 36877 | 5.00 | 5.93 | |
| 8 Dichlorofluoromethane | 67 | 1.728 | 1.734 | -0.006 | 97 | 85716 | 5.00 | 5.72 | |
| 9 Trichlorofluoromethane | 101 | 1.734 | 1.734 | 0.000 | 83 | 61711 | 5.00 | 5.51 | |
| 10 Pentane | 72 | 1.793 | 1.793 | 0.000 | 94 | 10348 | 10.0 | 10.8 | |
| 11 Ethanol | 46 | 2.011 | 2.016 | -0.006 | 89 | 6685 | 200.0 | 214.3 | |
| 12 Ethyl ether | 59 | 2.058 | 2.063 | -0.005 | 91 | 35658 | 5.00 | 5.61 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.075 | 2.075 | 0.000 | 93 | 33854 | 5.00 | 5.72 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.116 | 2.122 | -0.006 | 88 | 34418 | 5.00 | 5.56 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.263 | 2.263 | 0.000 | 94 | 33210 | 5.00 | 5.71 | |
| 16 Acrolein | 56 | 2.281 | 2.286 | -0.005 | 91 | 29916 | 20.0 | 19.6 | |
| 17 1,1-Dichloroethene | 96 | 2.304 | 2.316 | -0.012 | 98 | 38385 | 5.00 | 5.46 | |
| 18 Acetone | 43 | 2.445 | 2.451 | -0.006 | 87 | 66554 | 25.0 | 26.4 | |
| 19 Iodomethane | 142 | 2.492 | 2.504 | -0.012 | 98 | 64168 | 5.00 | 5.42 | |
| 20 Carbon disulfide | 76 | 2.528 | 2.533 | -0.005 | 98 | 147929 | 5.00 | 6.02 | |
| 21 Isopropyl alcohol | 45 | 2.563 | 2.574 | -0.011 | 97 | 19076 | 50.0 | 47.9 | |
| 22 3-Chloro-1-propene | 76 | 2.727 | 2.727 | 0.000 | 91 | 24102 | 5.00 | 5.42 | |
| 24 Cyclopentene | 67 | 2.739 | 2.751 | -0.012 | 94 | 95351 | 5.00 | 5.51 | |
| 23 Methyl acetate | 43 | 2.757 | 2.762 | -0.005 | 99 | 138683 | 25.0 | 26.8 | |
| 25 Acetonitrile | 41 | 2.833 | 2.833 | 0.000 | 99 | 52443 | 50.0 | 54.3 | |
| 27 Methylene Chloride | 84 | 2.892 | 2.892 | 0.000 | 42 | 48367 | 5.00 | 5.63 | |
| * 26 TBA-d9 (IS) | 65 | 2.898 | 2.903 | -0.005 | 85 | 487365 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.998 | 2.991 | 0.007 | 98 | 39575 | 50.0 | 51.0 | |
| 29 Methyl tert-butyl ether | 73 | 3.097 | 3.103 | -0.006 | 98 | 127906 | 5.00 | 5.89 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.133 | 3.132 | 0.001 | 93 | 48197 | 5.00 | 5.77 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.244 | 3.256 | -0.012 | 94 | 160213 | 50.0 | 52.8 | |
| 32 Hexane | 57 | 3.332 | 3.332 | 0.000 | 92 | 28743 | 5.00 | 5.44 | |
| 33 Isopropyl ether | 45 | 3.609 | 3.608 | 0.001 | 95 | 125052 | 5.00 | 5.67 | |
| 34 1,1-Dichloroethane | 63 | 3.638 | 3.644 | -0.006 | 98 | 81692 | 5.00 | 5.51 | |
| 35 Vinyl acetate | 43 | 3.667 | 3.673 | -0.006 | 99 | 121700 | 10.0 | 9.69 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.691 | 3.691 | 0.000 | 91 | 35935 | 5.00 | 5.39 | |
| 37 Tert-butyl ethyl ether | 59 | 3.996 | 4.002 | -0.006 | 89 | 126702 | 5.00 | 5.46 | |
| 39 2,2-Dichloropropane | 79 | 4.249 | 4.249 | 0.000 | 52 | 17981 | 5.00 | 4.88 | |
| * 38 2-Butanone-d5 | 46 | 4.255 | 4.255 | 0.000 | 91 | 561003 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.284 | 4.284 | 0.000 | 95 | 52407 | 5.00 | 5.36 | |
| 41 2-Butanone (MEK) | 72 | 4.325 | 4.319 | 0.006 | 97 | 24834 | 25.0 | 23.9 | |
| 42 Ethyl acetate | 43 | 4.325 | 4.325 | 0.000 | 95 | 169331 | 10.0 | 11.2 | |
| 43 Methyl acrylate | 55 | 4.390 | 4.390 | 0.000 | 99 | 38889 | 5.00 | 5.15 | |
| 44 Propionitrile | 54 | 4.484 | 4.484 | 0.000 | 99 | 65394 | 50.0 | 53.5 | |
| 46 Chlorobromomethane | 128 | 4.560 | 4.560 | 0.000 | 76 | 27739 | 5.00 | 5.70 | |
| 45 Tetrahydrofuran | 72 | 4.560 | 4.560 | 0.000 | 64 | 11727 | 10.0 | 9.95 | |
| 47 Methacrylonitrile | 67 | 4.607 | 4.607 | 0.000 | 90 | 191480 | 50.0 | 54.8 | |
| 48 Chloroform | 83 | 4.631 | 4.625 | 0.006 | 97 | 75433 | 5.00 | 5.44 | |
| 49 Cyclohexane | 56 | 4.766 | 4.760 | 0.006 | 88 | 49695 | 5.00 | 5.66 | |
| 50 1,1,1-Trichloroethane | 97 | 4.784 | 4.789 | -0.005 | 93 | 60077 | 5.00 | 5.34 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.819 | 4.825 | -0.006 | 98 | 329205 | 50.0 | 52.7 | |
| 52 Carbon tetrachloride | 117 | 4.931 | 4.924 | 0.007 | 97 | 50804 | 5.00 | 5.44 | |
| 53 1,1-Dichloropropene | 75 | 4.972 | 4.977 | -0.005 | 98 | 61390 | 5.00 | 5.80 | |
| 54 Isobutyl alcohol | 43 | 5.142 | 5.142 | 0.000 | 95 | 40021 | 125.0 | 116.5 | M |
| 55 Isooctane | 57 | 5.166 | 5.171 | -0.005 | 83 | 53114 | 5.00 | 5.14 | |
| 56 Benzene | 78 | 5.213 | 5.212 | 0.001 | 93 | 188359 | 5.00 | 5.80 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.236 | 5.242 | -0.006 | 95 | 353531 | 50.0 | 50.9 | |
| 59 Tert-amyl methyl ether | 73 | 5.289 | 5.289 | 0.000 | 78 | 128039 | 5.00 | 5.52 | |
| 58 Isopropyl acetate | 43 | 5.295 | 5.295 | 0.000 | 92 | 118331 | 5.00 | 5.62 | |
| 60 1,2-Dichloroethane | 62 | 5.324 | 5.324 | 0.000 | 96 | 61947 | 5.00 | 5.55 | |
| 61 n-Heptane | 57 | 5.389 | 5.400 | -0.011 | 86 | 13048 | 5.00 | 5.28 | |
| * 62 Fluorobenzene | 96 | 5.553 | 5.559 | -0.006 | 99 | 1164004 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.918 | 5.917 | 0.001 | 87 | 24145 | 125.0 | 126.6 | |
| 64 Trichloroethene | 95 | 5.965 | 5.959 | 0.006 | 98 | 47283 | 5.00 | 5.64 | |
| 66 Methylcyclohexane | 83 | 6.100 | 6.100 | 0.000 | 80 | 40756 | 5.00 | 5.72 | |
| 65 Ethyl acrylate | 55 | 6.117 | 6.111 | 0.006 | 97 | 87964 | 5.00 | 5.57 | |
| 67 1,2-Dichloropropane | 63 | 6.300 | 6.299 | 0.001 | 91 | 45247 | 5.00 | 5.36 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.376 | 6.370 | 0.006 | 93 | 72194 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.394 | 6.393 | 0.001 | 83 | 27119 | 10.0 | 10.4 | |
| 70 1,4-Dioxane | 88 | 6.435 | 6.434 | 0.001 | 37 | 10652 | 100.0 | 111.2 | |
| 72 Dibromomethane | 93 | 6.452 | 6.446 | 0.006 | 89 | 29803 | 5.00 | 5.41 | |
| 71 n-Propyl acetate | 43 | 6.458 | 6.458 | 0.000 | 95 | 57816 | 5.00 | 4.92 | |
| 73 Dichlorobromomethane | 83 | 6.623 | 6.617 | 0.006 | 97 | 60563 | 5.00 | 5.48 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.011 | 7.010 | 0.001 | 85 | 32445 | 5.00 | 5.36 | |
| 75 2-Nitropropane | 41 | 7.016 | 7.016 | 0.000 | 82 | 18800 | 10.0 | 9.58 | |
| 76 Epichlorohydrin | 57 | 7.134 | 7.134 | 0.000 | 99 | 90768 | 100.0 | 107.6 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.181 | 7.187 | -0.006 | 90 | 77236 | 5.00 | 5.26 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.381 | 7.380 | 0.001 | 97 | 198493 | 25.0 | 28.6 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.463 | 7.463 | 0.000 | 100 | 1308425 | 50.0 | 49.9 | |
| 80 Toluene | 91 | 7.545 | 7.545 | 0.000 | 93 | 209190 | 5.00 | 5.83 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.933 | 7.933 | 0.000 | 97 | 66450 | 5.00 | 5.01 | |
| 82 Ethyl methacrylate | 69 | 7.962 | 7.962 | 0.000 | 87 | 58609 | 5.00 | 5.37 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.168 | 8.168 | 0.000 | 93 | 39395 | 5.00 | 5.35 | |
| 84 Tetrachloroethene | 166 | 8.215 | 8.209 | 0.006 | 94 | 48804 | 5.00 | 5.34 | |
| 85 1,3-Dichloropropane | 76 | 8.409 | 8.403 | 0.006 | 92 | 74283 | 5.00 | 5.30 | |
| 86 2-Hexanone | 58 | 8.468 | 8.473 | -0.005 | 94 | 84924 | 25.0 | 26.1 | |
| 87 n-Butyl acetate | 43 | 8.591 | 8.591 | 0.000 | 97 | 61964 | 5.00 | 4.96 | |
| 88 Chlorodibromomethane | 129 | 8.650 | 8.650 | 0.000 | 97 | 52352 | 5.00 | 5.28 | |
| 89 Ethylene Dibromide | 107 | 8.832 | 8.826 | 0.006 | 99 | 45282 | 5.00 | 5.00 | |
| * 90 Chlorobenzene-d5 | 117 | 9.384 | 9.390 | -0.006 | 85 | 1079573 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.419 | 9.419 | 0.000 | 96 | 139367 | 5.00 | 5.58 | |
| 92 Ethylbenzene | 106 | 9.508 | 9.507 | 0.001 | 98 | 66806 | 5.00 | 5.27 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.525 | 9.525 | 0.000 | 95 | 45377 | 5.00 | 4.92 | |
| 94 m-Xylene & p-Xylene | 106 | 9.643 | 9.642 | 0.001 | 96 | 82072 | 5.00 | 5.34 | |
| 95 n-Butyl acrylate | 73 | 10.031 | 10.030 | 0.001 | 98 | 36315 | 5.00 | 4.90 | |
| 96 o-Xylene | 106 | 10.048 | 10.054 | -0.006 | 95 | 87849 | 5.00 | 5.43 | |
| 97 Styrene | 104 | 10.083 | 10.083 | 0.000 | 97 | 148670 | 5.00 | 5.53 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.242 | 10.236 | 0.006 | 94 | 75197 | 5.00 | 5.09 | |
| 99 Bromoform | 173 | 10.283 | 10.277 | 0.006 | 97 | 39870 | 5.00 | 5.12 | |
| 100 Isopropylbenzene | 105 | 10.383 | 10.383 | 0.000 | 95 | 175031 | 5.00 | 5.73 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.559 | 0.000 | 97 | 464862 | 50.0 | 49.4 | |
| 102 Bromobenzene | 156 | 10.677 | 10.677 | 0.000 | 92 | 67899 | 5.00 | 5.54 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.700 | 10.706 | -0.006 | 96 | 62904 | 5.00 | 5.34 | |
| 104 N-Propylbenzene | 91 | 10.724 | 10.729 | -0.005 | 100 | 203225 | 5.00 | 5.62 | |
| 105 1,2,3-Trichloropropane | 110 | 10.747 | 10.747 | 0.000 | 95 | 18318 | 5.00 | 5.26 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.759 | 10.759 | 0.000 | 77 | 15665 | 5.00 | 4.67 | |
| 107 4-Ethyltoluene | 105 | 10.818 | 10.818 | 0.000 | 98 | 174129 | 5.00 | 5.78 | |
| 108 2-Chlorotoluene | 91 | 10.818 | 10.818 | 0.000 | 96 | 160926 | 5.00 | 5.96 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.871 | 10.870 | 0.001 | 96 | 152852 | 5.00 | 5.91 | |
| 110 4-Chlorotoluene | 91 | 10.912 | 10.912 | 0.000 | 97 | 158592 | 5.00 | 6.21 | |
| 111 Butyl Methacrylate | 87 | 10.935 | 10.935 | 0.000 | 89 | 65215 | 5.00 | 5.06 | |
| 112 tert-Butylbenzene | 119 | 11.106 | 11.105 | 0.001 | 95 | 120777 | 5.00 | 5.88 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.153 | 11.152 | 0.001 | 97 | 166689 | 5.00 | 5.98 | |
| 114 sec-Butylbenzene | 105 | 11.264 | 11.264 | 0.000 | 99 | 158128 | 5.00 | 5.91 | |
| 115 4-Isopropyltoluene | 119 | 11.358 | 11.364 | -0.006 | 98 | 144539 | 5.00 | 5.88 | |
| 116 1,3-Dichlorobenzene | 146 | 11.376 | 11.376 | 0.000 | 96 | 108381 | 5.00 | 5.53 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.423 | 11.429 | -0.006 | 94 | 625949 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.441 | 11.440 | 0.001 | 97 | 113180 | 5.00 | 5.60 | |
| 119 Benzyl chloride | 91 | 11.541 | 11.540 | 0.000 | 99 | 100179 | 5.00 | 4.73 | |
| 120 2,3-Dihydroindene | 117 | 11.588 | 11.587 | 0.001 | 94 | 204321 | 5.00 | 5.44 | |
| 121 p-Diethylbenzene | 119 | 11.617 | 11.617 | 0.000 | 94 | 82624 | 5.00 | 5.42 | |
| 122 n-Butylbenzene | 91 | 11.635 | 11.634 | 0.001 | 97 | 146783 | 5.00 | 5.91 | |
| 123 1,2-Dichlorobenzene | 146 | 11.693 | 11.693 | 0.000 | 98 | 117606 | 5.00 | 5.89 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.134 | 12.134 | 0.000 | 98 | 140764 | 5.00 | 5.82 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.234 | 12.234 | 0.000 | 91 | 12155 | 5.00 | 5.57 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.322 | 12.322 | 0.000 | 96 | 64728 | 5.00 | 5.45 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.786 | 12.786 | 0.000 | 92 | 57644 | 5.00 | 5.20 | |
| 128 Hexachlorobutadiene | 225 | 12.851 | 12.850 | 0.001 | 95 | 29417 | 5.00 | 5.92 | |
| 129 Naphthalene | 128 | 12.998 | 12.991 | 0.007 | 99 | 134033 | 5.00 | 5.08 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.180 | 13.180 | 0.000 | 96 | 46051 | 5.00 | 5.03 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 10.0 | 11.1 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 10.0 | 10.8 | |
| S 133 Total BTEX | 1 | | | | 0 | | 25.0 | 27.7 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | | |
|---|---|---|---|---|
| GAS Hi_00140 | Amount Added: | 1.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 1.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 1.00 | Units: uL | |
| ACROLEIN W_00049 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

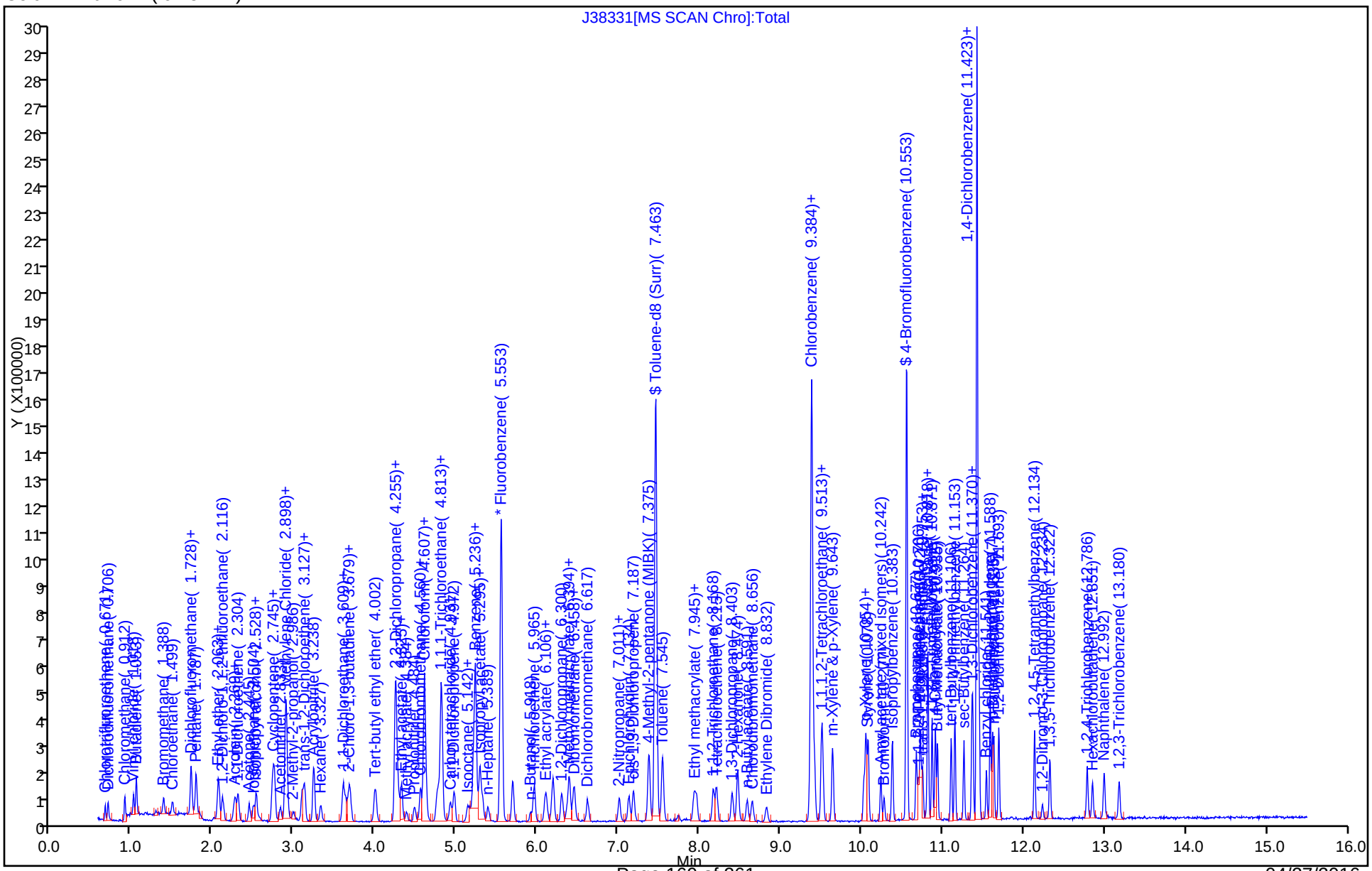
Report Date: 30-Mar-2016 16:07:51 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38331.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 29-Mar-2016 04:09:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | STD5 | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38332.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 29-Mar-2016 04:36:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0039111-005
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:07:55 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: nimerd Date: 29-Mar-2016 10:55:28

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.671 | 0.671 | 0.000 | 92 | 17755 | 20.0 | 19.8 | |
| 2 Dichlorodifluoromethane | 85 | 0.706 | 0.706 | 0.000 | 99 | 147387 | 20.0 | 18.7 | |
| 3 Chloromethane | 50 | 0.912 | 0.912 | 0.000 | 98 | 194757 | 20.0 | 19.1 | |
| 4 Vinyl chloride | 62 | 1.023 | 1.023 | 0.000 | 98 | 197343 | 20.0 | 19.3 | |
| 5 Butadiene | 54 | 1.058 | 1.058 | 0.000 | 94 | 148715 | 20.0 | 18.2 | |
| 6 Bromomethane | 94 | 1.393 | 1.393 | 0.000 | 96 | 125821 | 20.0 | 18.5 | |
| 7 Chloroethane | 64 | 1.499 | 1.499 | 0.000 | 100 | 112904 | 20.0 | 17.3 | |
| 8 Dichlorofluoromethane | 67 | 1.734 | 1.734 | 0.000 | 97 | 302962 | 20.0 | 19.3 | |
| 9 Trichlorofluoromethane | 101 | 1.734 | 1.734 | 0.000 | 75 | 224352 | 20.0 | 19.1 | |
| 10 Pentane | 72 | 1.793 | 1.793 | 0.000 | 95 | 38884 | 40.0 | 36.9 | |
| 11 Ethanol | 46 | 2.016 | 2.016 | 0.000 | 95 | 27892 | 800.0 | 816.0 | |
| 12 Ethyl ether | 59 | 2.063 | 2.063 | 0.000 | 94 | 127959 | 20.0 | 19.2 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.075 | 2.075 | 0.000 | 94 | 117666 | 20.0 | 19.0 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.122 | 2.122 | 0.000 | 87 | 137282 | 20.0 | 21.1 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.263 | 2.263 | 0.000 | 95 | 128335 | 20.0 | 21.0 | |
| 16 Acrolein | 56 | 2.286 | 2.286 | 0.000 | 93 | 59425 | 40.0 | 35.5 | |
| 17 1,1-Dichloroethene | 96 | 2.316 | 2.316 | 0.000 | 97 | 150700 | 20.0 | 20.4 | |
| 18 Acetone | 43 | 2.451 | 2.451 | 0.000 | 88 | 257518 | 100.0 | 101.3 | |
| 19 Iodomethane | 142 | 2.504 | 2.504 | 0.000 | 97 | 251456 | 20.0 | 20.2 | |
| 20 Carbon disulfide | 76 | 2.533 | 2.533 | 0.000 | 98 | 536118 | 20.0 | 20.8 | |
| 21 Isopropyl alcohol | 45 | 2.574 | 2.574 | 0.000 | 99 | 82281 | 200.0 | 188.4 | |
| 22 3-Chloro-1-propene | 76 | 2.727 | 2.727 | 0.000 | 89 | 94964 | 20.0 | 20.3 | |
| 24 Cyclopentene | 67 | 2.751 | 2.751 | 0.000 | 93 | 360605 | 20.0 | 19.9 | |
| 23 Methyl acetate | 43 | 2.762 | 2.762 | 0.000 | 98 | 594927 | 100.0 | 109.4 | |
| 25 Acetonitrile | 41 | 2.833 | 2.833 | 0.000 | 98 | 188925 | 200.0 | 178.4 | |
| 27 Methylene Chloride | 84 | 2.892 | 2.892 | 0.000 | 89 | 182763 | 20.0 | 20.3 | |
| * 26 TBA-d9 (IS) | 65 | 2.903 | 2.903 | 0.000 | 94 | 534027 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.991 | 2.991 | 0.000 | 99 | 162242 | 200.0 | 212.9 | |
| 29 Methyl tert-butyl ether | 73 | 3.103 | 3.103 | 0.000 | 96 | 483083 | 20.0 | 21.2 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.132 | 3.132 | 0.000 | 94 | 172509 | 20.0 | 19.7 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.244 | 3.244 | 0.000 | 93 | 634895 | 200.0 | 190.8 | |
| 32 Hexane | 57 | 3.332 | 3.332 | 0.000 | 96 | 116975 | 20.0 | 19.6 | |
| 33 Isopropyl ether | 45 | 3.608 | 3.608 | 0.000 | 97 | 481105 | 20.0 | 20.8 | |
| 34 1,1-Dichloroethane | 63 | 3.644 | 3.644 | 0.000 | 99 | 309297 | 20.0 | 19.9 | |
| 35 Vinyl acetate | 43 | 3.673 | 3.673 | 0.000 | 99 | 608343 | 40.0 | 46.2 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.691 | 3.691 | 0.000 | 90 | 137284 | 20.0 | 19.6 | |
| 37 Tert-butyl ethyl ether | 59 | 4.002 | 4.002 | 0.000 | 89 | 500706 | 20.0 | 20.6 | |
| 39 2,2-Dichloropropane | 79 | 4.249 | 4.249 | 0.000 | 67 | 73861 | 20.0 | 19.1 | |
| * 38 2-Butanone-d5 | 46 | 4.255 | 4.255 | 0.000 | 96 | 612841 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.284 | 4.284 | 0.000 | 96 | 198923 | 20.0 | 19.4 | |
| 41 2-Butanone (MEK) | 72 | 4.319 | 4.319 | 0.000 | 98 | 115497 | 100.0 | 101.7 | |
| 42 Ethyl acetate | 43 | 4.325 | 4.325 | 0.000 | 94 | 662398 | 40.0 | 40.0 | |
| 43 Methyl acrylate | 55 | 4.390 | 4.390 | 0.000 | 99 | 159208 | 20.0 | 20.1 | |
| 44 Propionitrile | 54 | 4.484 | 4.484 | 0.000 | 98 | 247781 | 200.0 | 185.1 | |
| 46 Chlorobromomethane | 128 | 4.560 | 4.560 | 0.000 | 78 | 98974 | 20.0 | 19.4 | |
| 45 Tetrahydrofuran | 72 | 4.560 | 4.560 | 0.000 | 68 | 49717 | 40.0 | 38.6 | |
| 47 Methacrylonitrile | 67 | 4.607 | 4.607 | 0.000 | 90 | 768233 | 200.0 | 209.4 | |
| 48 Chloroform | 83 | 4.625 | 4.625 | 0.000 | 99 | 293643 | 20.0 | 20.2 | |
| 49 Cyclohexane | 56 | 4.760 | 4.760 | 0.000 | 88 | 188448 | 20.0 | 20.5 | |
| 50 1,1,1-Trichloroethane | 97 | 4.789 | 4.789 | 0.000 | 98 | 230107 | 20.0 | 19.5 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.819 | 4.819 | 0.000 | 95 | 322000 | 50.0 | 49.1 | |
| 52 Carbon tetrachloride | 117 | 4.924 | 4.924 | 0.000 | 98 | 191734 | 20.0 | 19.6 | |
| 53 1,1-Dichloropropene | 75 | 4.977 | 4.977 | 0.000 | 97 | 212468 | 20.0 | 19.1 | |
| 54 Isobutyl alcohol | 43 | 5.142 | 5.142 | 0.000 | 94 | 197240 | 500.0 | 524.1 | |
| 55 Isooctane | 57 | 5.171 | 5.171 | 0.000 | 90 | 222521 | 20.0 | 20.5 | |
| 56 Benzene | 78 | 5.212 | 5.212 | 0.000 | 95 | 707520 | 20.0 | 21.0 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.236 | 5.236 | 0.000 | 95 | 362830 | 50.0 | 49.7 | |
| 59 Tert-amyl methyl ether | 73 | 5.289 | 5.289 | 0.000 | 81 | 509619 | 20.0 | 20.9 | |
| 58 Isopropyl acetate | 43 | 5.295 | 5.295 | 0.000 | 91 | 443437 | 20.0 | 20.1 | |
| 60 1,2-Dichloroethane | 62 | 5.324 | 5.324 | 0.000 | 95 | 235862 | 20.0 | 20.1 | |
| 61 n-Heptane | 57 | 5.400 | 5.400 | 0.000 | 89 | 56092 | 20.0 | 19.9 | |
| * 62 Fluorobenzene | 96 | 5.553 | 5.553 | 0.000 | 99 | 1221651 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.917 | 5.917 | 0.000 | 89 | 98346 | 500.0 | 470.4 | |
| 64 Trichloroethene | 95 | 5.959 | 5.959 | 0.000 | 97 | 177266 | 20.0 | 20.2 | |
| 66 Methylcyclohexane | 83 | 6.100 | 6.100 | 0.000 | 94 | 145693 | 20.0 | 19.5 | |
| 65 Ethyl acrylate | 55 | 6.111 | 6.111 | 0.000 | 99 | 336234 | 20.0 | 20.3 | |
| 67 1,2-Dichloropropane | 63 | 6.299 | 6.299 | 0.000 | 92 | 183023 | 20.0 | 20.7 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.370 | 6.370 | 0.000 | 70 | 87750 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.393 | 6.393 | 0.000 | 85 | 109096 | 40.0 | 39.7 | |
| 70 1,4-Dioxane | 88 | 6.434 | 6.434 | 0.000 | 50 | 42596 | 400.0 | 365.7 | |
| 72 Dibromomethane | 93 | 6.446 | 6.446 | 0.000 | 90 | 115425 | 20.0 | 20.0 | |
| 71 n-Propyl acetate | 43 | 6.458 | 6.458 | 0.000 | 98 | 245651 | 20.0 | 19.9 | |
| 73 Dichlorobromomethane | 83 | 6.617 | 6.617 | 0.000 | 98 | 240284 | 20.0 | 20.7 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.010 | 7.010 | 0.000 | 84 | 120184 | 20.0 | 18.9 | |
| 75 2-Nitropropane | 41 | 7.016 | 7.016 | 0.000 | 78 | 69529 | 40.0 | 33.8 | |
| 76 Epichlorohydrin | 57 | 7.134 | 7.134 | 0.000 | 99 | 385337 | 400.0 | 418.3 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.187 | 7.187 | 0.000 | 91 | 311665 | 20.0 | 20.4 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.380 | 7.380 | 0.000 | 95 | 816202 | 100.0 | 107.6 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.463 | 7.463 | 0.000 | 99 | 1346634 | 50.0 | 49.4 | |
| 80 Toluene | 91 | 7.545 | 7.545 | 0.000 | 94 | 761392 | 20.0 | 20.4 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.933 | 7.933 | 0.000 | 96 | 280135 | 20.0 | 20.3 | |
| 82 Ethyl methacrylate | 69 | 7.962 | 7.962 | 0.000 | 88 | 236476 | 20.0 | 20.6 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.168 | 8.168 | 0.000 | 97 | 150857 | 20.0 | 19.7 | |
| 84 Tetrachloroethene | 166 | 8.209 | 8.209 | 0.000 | 94 | 186324 | 20.0 | 19.6 | |
| 85 1,3-Dichloropropane | 76 | 8.403 | 8.403 | 0.000 | 92 | 291613 | 20.0 | 20.0 | |
| 86 2-Hexanone | 58 | 8.473 | 8.473 | 0.000 | 95 | 373323 | 100.0 | 105.2 | |
| 87 n-Butyl acetate | 43 | 8.591 | 8.591 | 0.000 | 98 | 251345 | 20.0 | 19.4 | |
| 88 Chlorodibromomethane | 129 | 8.650 | 8.650 | 0.000 | 98 | 206676 | 20.0 | 20.1 | |
| 89 Ethylene Dibromide | 107 | 8.826 | 8.826 | 0.000 | 99 | 193184 | 20.0 | 20.5 | |
| * 90 Chlorobenzene-d5 | 117 | 9.384 | 9.384 | 0.000 | 84 | 1121982 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.419 | 9.419 | 0.000 | 97 | 542529 | 20.0 | 20.9 | |
| 92 Ethylbenzene | 106 | 9.507 | 9.507 | 0.000 | 98 | 248298 | 20.0 | 18.8 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.525 | 9.525 | 0.000 | 96 | 188126 | 20.0 | 19.6 | |
| 94 m-Xylene & p-Xylene | 106 | 9.642 | 9.642 | 0.000 | 96 | 316536 | 20.0 | 19.8 | |
| 95 n-Butyl acrylate | 73 | 10.030 | 10.030 | 0.000 | 97 | 143358 | 20.0 | 18.6 | |
| 96 o-Xylene | 106 | 10.054 | 10.054 | 0.000 | 95 | 343766 | 20.0 | 20.4 | |
| 97 Styrene | 104 | 10.083 | 10.083 | 0.000 | 96 | 590701 | 20.0 | 21.2 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.236 | 10.236 | 0.000 | 92 | 314624 | 20.0 | 20.2 | |
| 99 Bromoform | 173 | 10.277 | 10.277 | 0.000 | 99 | 152032 | 20.0 | 18.8 | |
| 100 Isopropylbenzene | 105 | 10.383 | 10.383 | 0.000 | 95 | 674984 | 20.0 | 21.3 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.559 | 0.000 | 97 | 478347 | 50.0 | 48.9 | |
| 102 Bromobenzene | 156 | 10.677 | 10.677 | 0.000 | 92 | 262604 | 20.0 | 20.3 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.706 | 10.706 | 0.000 | 98 | 260545 | 20.0 | 20.9 | |
| 104 N-Propylbenzene | 91 | 10.729 | 10.729 | 0.000 | 99 | 785562 | 20.0 | 20.6 | |
| 105 1,2,3-Trichloropropane | 110 | 10.747 | 10.747 | 0.000 | 97 | 74143 | 20.0 | 20.2 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.759 | 10.759 | 0.000 | 84 | 76419 | 20.0 | 21.6 | |
| 107 4-Ethyltoluene | 105 | 10.818 | 10.818 | 0.000 | 98 | 657889 | 20.0 | 20.7 | |
| 108 2-Chlorotoluene | 91 | 10.818 | 10.818 | 0.000 | 96 | 603533 | 20.0 | 21.2 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.870 | 10.870 | 0.000 | 94 | 598681 | 20.0 | 21.9 | |
| 110 4-Chlorotoluene | 91 | 10.912 | 10.912 | 0.000 | 96 | 593868 | 20.0 | 22.0 | |
| 111 Butyl Methacrylate | 87 | 10.935 | 10.935 | 0.000 | 88 | 276218 | 20.0 | 20.3 | |
| 112 tert-Butylbenzene | 119 | 11.105 | 11.105 | 0.000 | 95 | 459317 | 20.0 | 21.2 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.152 | 11.152 | 0.000 | 97 | 641167 | 20.0 | 21.8 | |
| 114 sec-Butylbenzene | 105 | 11.264 | 11.264 | 0.000 | 99 | 595860 | 20.0 | 21.1 | |
| 115 4-Isopropyltoluene | 119 | 11.364 | 11.364 | 0.000 | 98 | 560047 | 20.0 | 21.6 | |
| 116 1,3-Dichlorobenzene | 146 | 11.376 | 11.376 | 0.000 | 98 | 428974 | 20.0 | 20.8 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.423 | 11.423 | 0.000 | 93 | 660677 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.440 | 11.440 | 0.000 | 95 | 445216 | 20.0 | 20.9 | |
| 119 Benzyl chloride | 91 | 11.540 | 11.540 | 0.000 | 99 | 494515 | 20.0 | 22.1 | |
| 120 2,3-Dihydroindene | 117 | 11.587 | 11.587 | 0.000 | 93 | 819924 | 20.0 | 20.7 | |
| 121 p-Diethylbenzene | 119 | 11.617 | 11.617 | 0.000 | 95 | 332780 | 20.0 | 20.7 | |
| 122 n-Butylbenzene | 91 | 11.634 | 11.634 | 0.000 | 98 | 568162 | 20.0 | 21.7 | |
| 123 1,2-Dichlorobenzene | 146 | 11.693 | 11.693 | 0.000 | 98 | 448545 | 20.0 | 21.3 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.134 | 12.134 | 0.000 | 98 | 559146 | 20.0 | 21.9 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.234 | 12.234 | 0.000 | 93 | 47853 | 20.0 | 20.8 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.322 | 12.322 | 0.000 | 97 | 256086 | 20.0 | 20.4 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.786 | 12.786 | 0.000 | 93 | 240001 | 20.0 | 20.5 | |
| 128 Hexachlorobutadiene | 225 | 12.850 | 12.850 | 0.000 | 98 | 98083 | 20.0 | 18.7 | |
| 129 Naphthalene | 128 | 12.991 | 12.991 | 0.000 | 99 | 617954 | 20.0 | 22.2 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.180 | 13.180 | 0.000 | 95 | 202053 | 20.0 | 20.9 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 39.1 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 40.3 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 100.5 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GAS Hi_00140 | Amount Added: | 2.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 2.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 2.00 | Units: uL | |
| ACROLEIN W_00049 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 30-Mar-2016 16:07:59 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38332.D

Injection Date: 29-Mar-2016 04:36:30 Instrument ID: CVOAMS8 Operator ID:

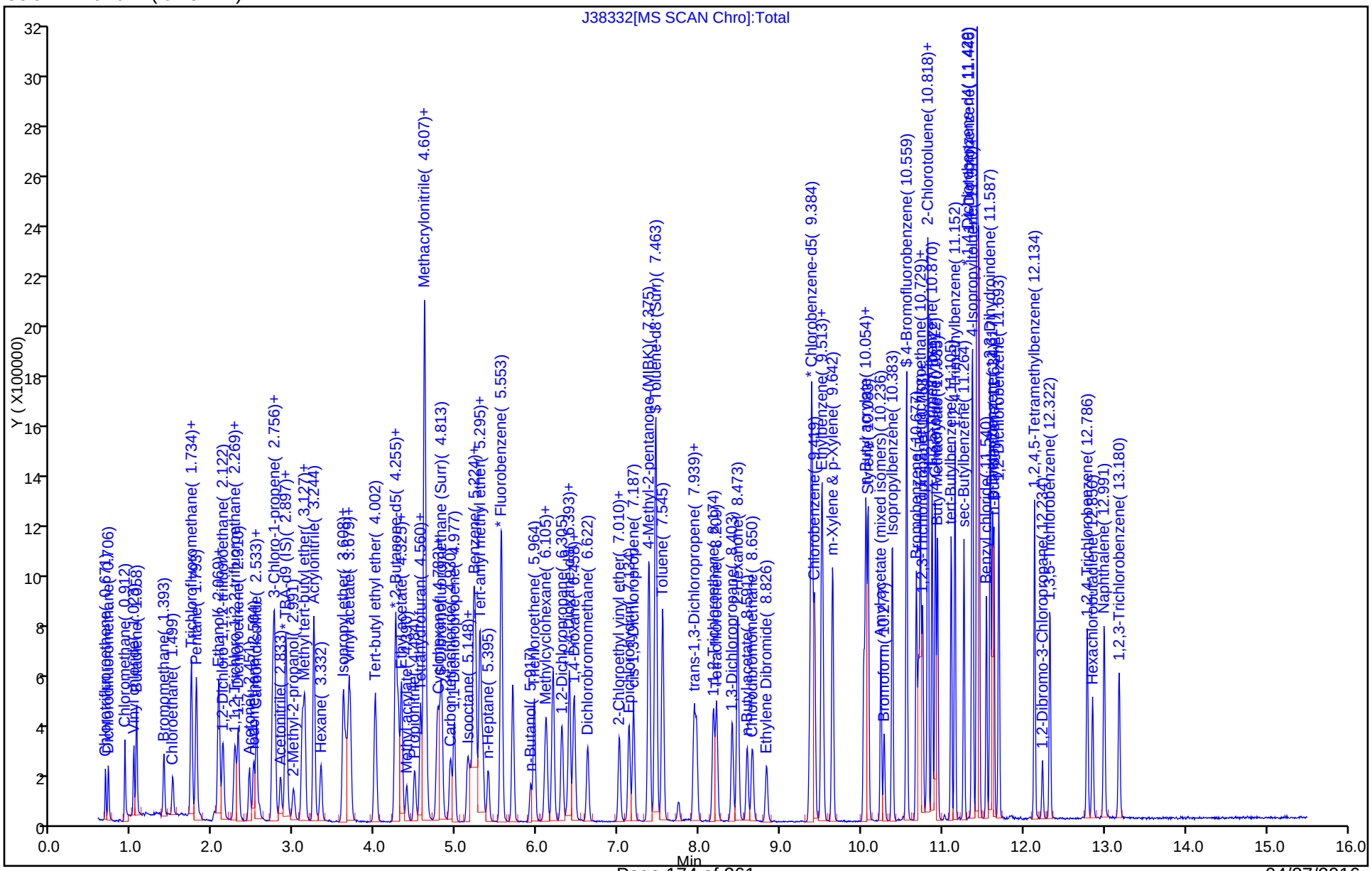
Lims ID: STD20 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38333.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Mar-2016 05:02:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0039111-006
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:08:07 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: kluseys Date: 29-Mar-2016 13:09:37

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.670 | 0.671 | -0.001 | 94 | 47971 | 50.0 | 50.9 | |
| 2 Dichlorodifluoromethane | 85 | 0.705 | 0.706 | -0.001 | 99 | 419198 | 50.0 | 50.9 | |
| 3 Chloromethane | 50 | 0.911 | 0.912 | -0.001 | 99 | 529215 | 50.0 | 49.5 | |
| 4 Vinyl chloride | 62 | 1.017 | 1.023 | -0.006 | 98 | 523620 | 50.0 | 48.9 | |
| 5 Butadiene | 54 | 1.052 | 1.058 | -0.006 | 96 | 415820 | 50.0 | 48.6 | |
| 6 Bromomethane | 94 | 1.387 | 1.393 | -0.006 | 99 | 343978 | 50.0 | 48.2 | |
| 7 Chloroethane | 64 | 1.498 | 1.499 | -0.001 | 98 | 310667 | 50.0 | 45.4 | |
| 8 Dichlorofluoromethane | 67 | 1.727 | 1.734 | -0.007 | 97 | 802007 | 50.0 | 48.7 | |
| 9 Trichlorofluoromethane | 101 | 1.727 | 1.734 | -0.007 | 75 | 608656 | 50.0 | 49.4 | |
| 10 Pentane | 72 | 1.786 | 1.793 | -0.007 | 95 | 84325 | 100.0 | 77.1 | |
| 11 Ethanol | 46 | 2.015 | 2.016 | -0.001 | 98 | 65211 | 2000.0 | 1835.0 | |
| 12 Ethyl ether | 59 | 2.057 | 2.063 | -0.007 | 94 | 330930 | 50.0 | 47.3 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.068 | 2.075 | -0.007 | 94 | 267805 | 50.0 | 41.2 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.121 | 2.122 | -0.001 | 83 | 328458 | 50.0 | 48.2 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.262 | 2.263 | -0.001 | 97 | 338503 | 50.0 | 52.9 | |
| 16 Acrolein | 56 | 2.280 | 2.286 | -0.006 | 96 | 164730 | 100.0 | 94.5 | |
| 17 1,1-Dichloroethene | 96 | 2.303 | 2.316 | -0.013 | 97 | 380575 | 50.0 | 49.2 | |
| 18 Acetone | 43 | 2.444 | 2.451 | -0.007 | 88 | 588251 | 250.0 | 228.7 | |
| 19 Iodomethane | 142 | 2.497 | 2.504 | -0.007 | 97 | 680255 | 50.0 | 52.2 | |
| 20 Carbon disulfide | 76 | 2.532 | 2.533 | -0.001 | 98 | 1366343 | 50.0 | 50.5 | |
| 21 Isopropyl alcohol | 45 | 2.574 | 2.574 | 0.000 | 99 | 229353 | 500.0 | 505.0 | |
| 22 3-Chloro-1-propene | 76 | 2.732 | 2.727 | 0.005 | 87 | 236951 | 50.0 | 48.4 | |
| 24 Cyclopentene | 67 | 2.744 | 2.751 | -0.007 | 93 | 846208 | 50.0 | 44.4 | |
| 23 Methyl acetate | 43 | 2.756 | 2.762 | -0.006 | 98 | 1465286 | 250.0 | 256.9 | |
| 25 Acetonitrile | 41 | 2.826 | 2.833 | -0.007 | 98 | 545361 | 500.0 | 495.5 | |
| 27 Methylene Chloride | 84 | 2.891 | 2.892 | -0.001 | 89 | 449806 | 50.0 | 47.6 | |
| * 26 TBA-d9 (IS) | 65 | 2.903 | 2.903 | 0.000 | 80 | 555222 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.991 | 2.991 | 0.000 | 99 | 381882 | 500.0 | 492.1 | |
| 29 Methyl tert-butyl ether | 73 | 3.096 | 3.103 | -0.007 | 97 | 1219260 | 50.0 | 51.0 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.126 | 3.132 | -0.006 | 94 | 439934 | 50.0 | 47.9 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.243 | 3.244 | -0.001 | 94 | 1620453 | 500.0 | 468.5 | |
| 32 Hexane | 57 | 3.326 | 3.332 | -0.006 | 94 | 305482 | 50.0 | 48.0 | |
| 33 Isopropyl ether | 45 | 3.602 | 3.608 | -0.006 | 96 | 1184229 | 50.0 | 48.8 | |
| 34 1,1-Dichloroethane | 63 | 3.637 | 3.644 | -0.007 | 99 | 794252 | 50.0 | 48.7 | |
| 35 Vinyl acetate | 43 | 3.666 | 3.673 | -0.007 | 99 | 1542168 | 100.0 | 111.6 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.696 | 3.691 | 0.005 | 90 | 337395 | 50.0 | 46.0 | |
| 37 Tert-butyl ethyl ether | 59 | 3.995 | 4.002 | -0.007 | 90 | 1234057 | 50.0 | 48.3 | |
| 39 2,2-Dichloropropane | 79 | 4.248 | 4.249 | -0.001 | 91 | 196121 | 50.0 | 48.4 | |
| * 38 2-Butanone-d5 | 46 | 4.248 | 4.255 | -0.007 | 75 | 630534 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.283 | 4.284 | -0.001 | 95 | 499440 | 50.0 | 46.4 | |
| 41 2-Butanone (MEK) | 72 | 4.319 | 4.319 | 0.000 | 97 | 265580 | 250.0 | 227.2 | |
| 42 Ethyl acetate | 43 | 4.319 | 4.325 | -0.006 | 95 | 1643265 | 100.0 | 96.5 | |
| 43 Methyl acrylate | 55 | 4.383 | 4.390 | -0.007 | 100 | 401391 | 50.0 | 48.3 | |
| 44 Propionitrile | 54 | 4.483 | 4.484 | -0.001 | 98 | 653958 | 500.0 | 469.9 | |
| 46 Chlorobromomethane | 128 | 4.559 | 4.560 | -0.001 | 81 | 247776 | 50.0 | 46.3 | |
| 45 Tetrahydrofuran | 72 | 4.554 | 4.560 | -0.006 | 68 | 118163 | 100.0 | 89.2 | |
| 47 Methacrylonitrile | 67 | 4.606 | 4.607 | -0.001 | 89 | 1983559 | 500.0 | 515.7 | |
| 48 Chloroform | 83 | 4.624 | 4.625 | -0.001 | 99 | 775291 | 50.0 | 50.9 | |
| 49 Cyclohexane | 56 | 4.759 | 4.760 | -0.001 | 90 | 508194 | 50.0 | 52.6 | |
| 50 1,1,1-Trichloroethane | 97 | 4.783 | 4.789 | -0.006 | 98 | 606382 | 50.0 | 49.0 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.818 | 4.819 | -0.001 | 97 | 335762 | 50.0 | 48.8 | |
| 52 Carbon tetrachloride | 117 | 4.930 | 4.924 | 0.006 | 99 | 508352 | 50.0 | 49.4 | |
| 53 1,1-Dichloropropene | 75 | 4.971 | 4.977 | -0.006 | 99 | 556511 | 50.0 | 47.8 | |
| 54 Isobutyl alcohol | 43 | 5.135 | 5.142 | -0.007 | 95 | 473234 | 1250.0 | 1209.5 | |
| 55 Isooctane | 57 | 5.171 | 5.171 | -0.001 | 98 | 449949 | 50.0 | 39.6 | |
| 56 Benzene | 78 | 5.212 | 5.212 | 0.000 | 95 | 1782407 | 50.0 | 50.8 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.235 | 5.236 | -0.001 | 96 | 377206 | 50.0 | 49.3 | |
| 59 Tert-amyl methyl ether | 73 | 5.288 | 5.289 | -0.001 | 81 | 1258897 | 50.0 | 49.3 | |
| 58 Isopropyl acetate | 43 | 5.288 | 5.295 | -0.007 | 91 | 1128854 | 50.0 | 48.7 | |
| 60 1,2-Dichloroethane | 62 | 5.329 | 5.324 | 0.005 | 95 | 591522 | 50.0 | 48.2 | |
| 61 n-Heptane | 57 | 5.394 | 5.400 | -0.006 | 91 | 142099 | 50.0 | 47.4 | |
| * 62 Fluorobenzene | 96 | 5.552 | 5.553 | -0.001 | 99 | 1280672 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.917 | 5.917 | 0.000 | 85 | 286986 | 1250.0 | 1320.3 | |
| 64 Trichloroethene | 95 | 5.958 | 5.959 | -0.001 | 96 | 442395 | 50.0 | 48.0 | |
| 66 Methylcyclohexane | 83 | 6.099 | 6.100 | -0.001 | 81 | 404763 | 50.0 | 51.6 | |
| 65 Ethyl acrylate | 55 | 6.111 | 6.111 | 0.000 | 98 | 884851 | 50.0 | 50.9 | |
| 67 1,2-Dichloropropane | 63 | 6.299 | 6.299 | 0.000 | 91 | 447014 | 50.0 | 48.1 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.375 | 6.370 | 0.005 | 89 | 84021 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.393 | 6.393 | 0.000 | 86 | 281306 | 100.0 | 97.7 | |
| 70 1,4-Dioxane | 88 | 6.440 | 6.434 | 0.006 | 37 | 110376 | 1000.0 | 989.8 | |
| 72 Dibromomethane | 93 | 6.445 | 6.446 | -0.001 | 93 | 292075 | 50.0 | 48.2 | |
| 71 n-Propyl acetate | 43 | 6.457 | 6.458 | -0.001 | 98 | 608143 | 50.0 | 47.0 | |
| 73 Dichlorobromomethane | 83 | 6.616 | 6.617 | -0.001 | 99 | 585959 | 50.0 | 48.2 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.010 | 7.010 | 0.000 | 83 | 327685 | 50.0 | 49.2 | |
| 75 2-Nitropropane | 41 | 7.010 | 7.016 | -0.006 | 80 | 196279 | 100.0 | 90.9 | |
| 76 Epichlorohydrin | 57 | 7.127 | 7.134 | -0.007 | 99 | 980732 | 1000.0 | 1034.7 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.186 | 7.187 | -0.001 | 90 | 774532 | 50.0 | 48.8 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.374 | 7.380 | -0.006 | 95 | 1993439 | 250.0 | 255.5 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.456 | 7.463 | -0.007 | 100 | 1380518 | 50.0 | 48.7 | |
| 80 Toluene | 91 | 7.544 | 7.545 | -0.001 | 94 | 1906409 | 50.0 | 49.2 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.932 | 7.933 | -0.001 | 97 | 713584 | 50.0 | 49.8 | |
| 82 Ethyl methacrylate | 69 | 7.961 | 7.962 | -0.001 | 89 | 600280 | 50.0 | 50.0 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.167 | 8.168 | -0.001 | 96 | 377677 | 50.0 | 47.5 | |
| 84 Tetrachloroethene | 166 | 8.208 | 8.209 | -0.001 | 95 | 484576 | 50.0 | 49.1 | |
| 85 1,3-Dichloropropane | 76 | 8.402 | 8.403 | -0.001 | 92 | 740123 | 50.0 | 48.8 | |
| 86 2-Hexanone | 58 | 8.473 | 8.473 | 0.000 | 94 | 879604 | 250.0 | 241.0 | |
| 87 n-Butyl acetate | 43 | 8.584 | 8.591 | -0.007 | 99 | 665839 | 50.0 | 49.4 | |
| 88 Chlorodibromomethane | 129 | 8.649 | 8.650 | -0.001 | 98 | 516283 | 50.0 | 48.2 | |
| 89 Ethylene Dibromide | 107 | 8.825 | 8.826 | -0.001 | 99 | 468575 | 50.0 | 47.9 | |
| * 90 Chlorobenzene-d5 | 117 | 9.383 | 9.384 | -0.001 | 84 | 1166163 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.418 | 9.419 | -0.001 | 96 | 1343123 | 50.0 | 49.8 | |
| 92 Ethylbenzene | 106 | 9.507 | 9.507 | 0.000 | 98 | 657700 | 50.0 | 48.0 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.524 | 9.525 | -0.001 | 94 | 494532 | 50.0 | 49.7 | |
| 94 m-Xylene & p-Xylene | 106 | 9.642 | 9.642 | 0.000 | 95 | 801079 | 50.0 | 48.3 | |
| 95 n-Butyl acrylate | 73 | 10.030 | 10.030 | 0.000 | 98 | 401771 | 50.0 | 50.2 | |
| 96 o-Xylene | 106 | 10.053 | 10.054 | -0.001 | 95 | 853873 | 50.0 | 48.8 | |
| 97 Styrene | 104 | 10.077 | 10.083 | -0.006 | 97 | 1495094 | 50.0 | 51.5 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.235 | 10.236 | -0.001 | 92 | 821067 | 50.0 | 50.4 | |
| 99 Bromoform | 173 | 10.276 | 10.277 | -0.001 | 99 | 384040 | 50.0 | 45.7 | |
| 100 Isopropylbenzene | 105 | 10.376 | 10.383 | -0.007 | 95 | 1748241 | 50.0 | 53.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.552 | 10.559 | -0.007 | 97 | 505172 | 50.0 | 49.7 | |
| 102 Bromobenzene | 156 | 10.676 | 10.677 | -0.001 | 92 | 655371 | 50.0 | 48.6 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.699 | 10.706 | -0.007 | 99 | 645914 | 50.0 | 49.8 | |
| 104 N-Propylbenzene | 91 | 10.723 | 10.729 | -0.006 | 100 | 1998173 | 50.0 | 50.2 | |
| 105 1,2,3-Trichloropropane | 110 | 10.746 | 10.747 | -0.001 | 96 | 188367 | 50.0 | 49.1 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.758 | 10.759 | -0.001 | 94 | 175689 | 50.0 | 47.6 | |
| 107 4-Ethyltoluene | 105 | 10.817 | 10.818 | -0.001 | 87 | 1587696 | 50.0 | 47.9 | |
| 108 2-Chlorotoluene | 91 | 10.817 | 10.818 | -0.001 | 97 | 1540951 | 50.0 | 51.8 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.870 | 10.870 | 0.000 | 95 | 1516091 | 50.0 | 53.2 | |
| 110 4-Chlorotoluene | 91 | 10.911 | 10.912 | -0.001 | 96 | 1452047 | 50.0 | 51.6 | |
| 111 Butyl Methacrylate | 87 | 10.934 | 10.935 | -0.001 | 88 | 733546 | 50.0 | 51.7 | |
| 112 tert-Butylbenzene | 119 | 11.105 | 11.105 | 0.000 | 95 | 1166176 | 50.0 | 51.6 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.152 | 11.152 | 0.000 | 97 | 1643676 | 50.0 | 53.5 | |
| 114 sec-Butylbenzene | 105 | 11.263 | 11.264 | -0.001 | 99 | 1557345 | 50.0 | 52.8 | |
| 115 4-Isopropyltoluene | 119 | 11.363 | 11.364 | -0.001 | 98 | 1459033 | 50.0 | 53.9 | |
| 116 1,3-Dichlorobenzene | 146 | 11.375 | 11.376 | -0.001 | 98 | 1084132 | 50.0 | 50.3 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.422 | 11.423 | -0.001 | 92 | 689564 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.440 | 11.440 | 0.000 | 96 | 1118101 | 50.0 | 50.2 | |
| 119 Benzyl chloride | 91 | 11.540 | 11.540 | 0.000 | 99 | 1270241 | 50.0 | 54.5 | |
| 120 2,3-Dihydroindene | 117 | 11.587 | 11.587 | 0.000 | 94 | 1965963 | 50.0 | 47.5 | |
| 121 p-Diethylbenzene | 119 | 11.616 | 11.617 | -0.001 | 94 | 779576 | 50.0 | 46.4 | |
| 122 n-Butylbenzene | 91 | 11.634 | 11.634 | 0.000 | 98 | 1397025 | 50.0 | 51.1 | |
| 123 1,2-Dichlorobenzene | 146 | 11.692 | 11.693 | -0.001 | 97 | 1123353 | 50.0 | 51.1 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.133 | 12.134 | -0.001 | 99 | 1384937 | 50.0 | 52.0 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.233 | 12.234 | -0.001 | 92 | 125316 | 50.0 | 52.1 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.321 | 12.322 | -0.001 | 97 | 641795 | 50.0 | 49.0 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.785 | 12.786 | -0.001 | 93 | 639828 | 50.0 | 52.4 | |
| 128 Hexachlorobutadiene | 225 | 12.850 | 12.850 | 0.000 | 98 | 273999 | 50.0 | 50.1 | |
| 129 Naphthalene | 128 | 12.991 | 12.991 | 0.000 | 99 | 1693770 | 50.0 | 58.3 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.179 | 13.180 | -0.001 | 95 | 551315 | 50.0 | 54.7 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 100.0 | 94.3 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 100.0 | 97.1 | |
| S 133 Total BTEX | 1 | | | | 0 | | 250.0 | 245.2 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GAS Hi_00140 | Amount Added: | 5.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 5.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 5.00 | Units: uL | |
| ACROLEIN W_00049 | Amount Added: | 10.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 30-Mar-2016 16:08:11 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38333.D

Injection Date: 29-Mar-2016 05:02:30 Instrument ID: CVOAMS8 Operator ID:

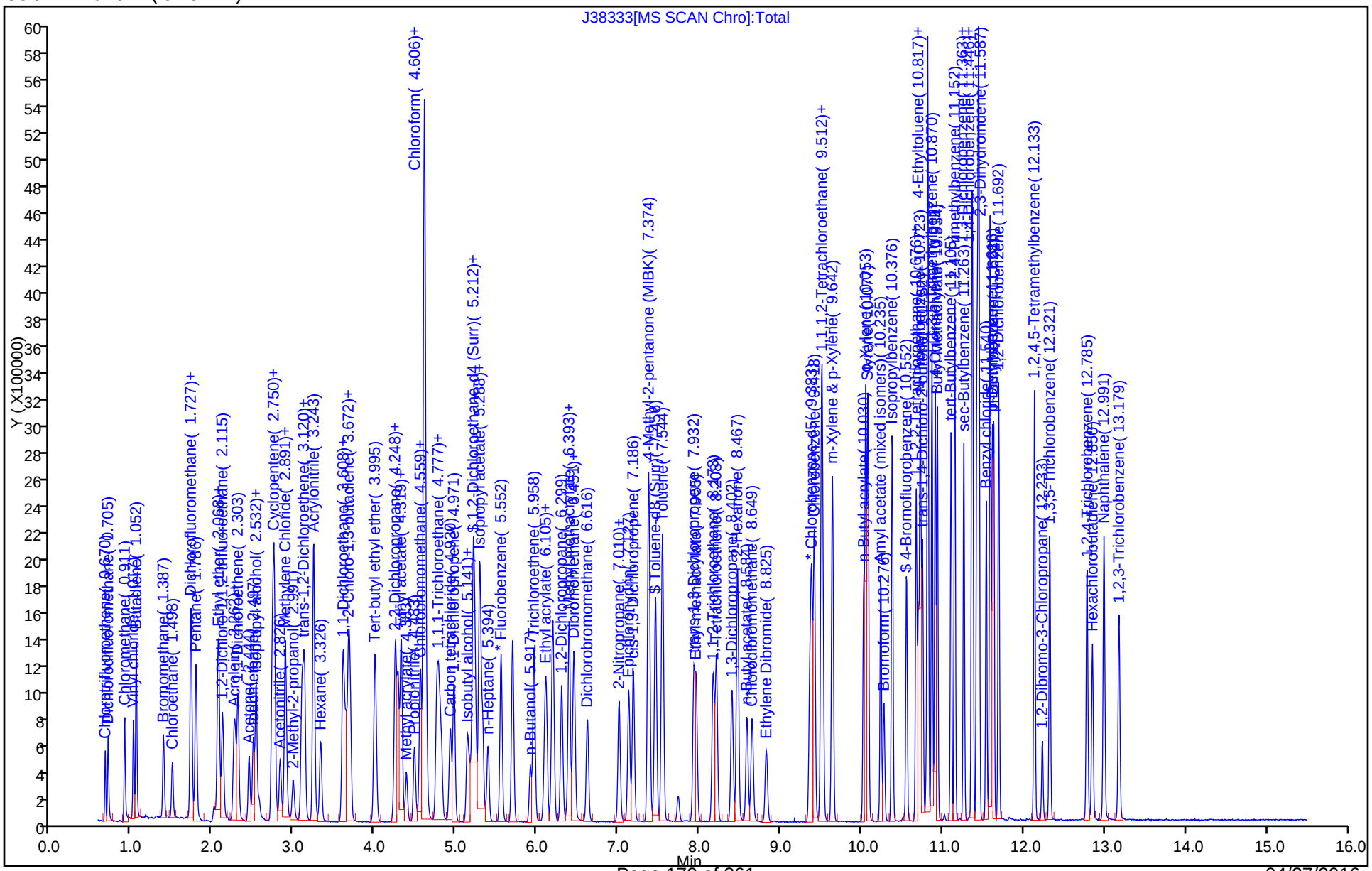
Lims ID: STD50 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38334.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Mar-2016 05:28:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0039111-007
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:08:18 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: nimerd Date: 29-Mar-2016 10:59:12

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.667 | 0.671 | -0.004 | 93 | 215480 | 200.0 | 218.0 | |
| 2 Dichlorodifluoromethane | 85 | 0.702 | 0.706 | -0.004 | 99 | 1949752 | 200.0 | 225.3 | |
| 3 Chloromethane | 50 | 0.908 | 0.912 | -0.004 | 98 | 2260857 | 200.0 | 201.5 | |
| 4 Vinyl chloride | 62 | 1.013 | 1.023 | -0.010 | 97 | 2304459 | 200.0 | 205.0 | |
| 5 Butadiene | 54 | 1.049 | 1.058 | -0.009 | 95 | 1939037 | 200.0 | 215.9 | |
| 6 Bromomethane | 94 | 1.384 | 1.393 | -0.009 | 100 | 1613746 | 200.0 | 215.2 | |
| 7 Chloroethane | 64 | 1.495 | 1.499 | -0.004 | 100 | 1349300 | 200.0 | 187.9 | |
| 8 Dichlorofluoromethane | 67 | 1.724 | 1.734 | -0.010 | 98 | 3305453 | 200.0 | 191.1 | |
| 9 Trichlorofluoromethane | 101 | 1.724 | 1.734 | -0.010 | 98 | 2788106 | 200.0 | 215.4 | |
| 10 Pentane | 72 | 1.789 | 1.793 | -0.004 | 94 | 549596 | 400.0 | 504.0 | |
| 11 Ethanol | 46 | 2.012 | 2.016 | -0.004 | 96 | 284819 | 8000.0 | 8043.2 | |
| 12 Ethyl ether | 59 | 2.053 | 2.063 | -0.010 | 93 | 1416723 | 200.0 | 193.0 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.065 | 2.075 | -0.010 | 96 | 1534360 | 200.0 | 224.6 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.112 | 2.122 | -0.010 | 93 | 1460323 | 200.0 | 204.3 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.259 | 2.263 | -0.004 | 97 | 1556951 | 200.0 | 231.9 | |
| 16 Acrolein | 56 | 2.277 | 2.286 | -0.009 | 93 | 345318 | 200.0 | 198.9 | |
| 17 1,1-Dichloroethene | 96 | 2.306 | 2.316 | -0.010 | 97 | 1676595 | 200.0 | 206.5 | |
| 18 Acetone | 43 | 2.441 | 2.451 | -0.010 | 88 | 2695801 | 1000.0 | 1049.6 | |
| 19 Iodomethane | 142 | 2.494 | 2.504 | -0.010 | 97 | 2914846 | 200.0 | 213.2 | |
| 20 Carbon disulfide | 76 | 2.529 | 2.533 | -0.004 | 99 | 5654076 | 200.0 | 199.1 | |
| 21 Isopropyl alcohol | 45 | 2.565 | 2.574 | -0.009 | 99 | 942294 | 2000.0 | 2082.3 | |
| 22 3-Chloro-1-propene | 76 | 2.729 | 2.727 | 0.002 | 89 | 1027357 | 200.0 | 200.0 | |
| 24 Cyclopentene | 67 | 2.741 | 2.751 | -0.010 | 95 | 4567098 | 200.0 | 228.5 | |
| 23 Methyl acetate | 43 | 2.753 | 2.762 | -0.009 | 97 | 5773652 | 1000.0 | 964.5 | |
| 25 Acetonitrile | 41 | 2.829 | 2.833 | -0.004 | 98 | 2283100 | 2000.0 | 2081.5 | |
| 27 Methylene Chloride | 84 | 2.888 | 2.892 | -0.004 | 88 | 1912705 | 200.0 | 192.9 | |
| * 26 TBA-d9 (IS) | 65 | 2.899 | 2.903 | -0.004 | 88 | 553259 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.988 | 2.991 | -0.003 | 99 | 1580887 | 2000.0 | 2069.9 | |
| 29 Methyl tert-butyl ether | 73 | 3.099 | 3.103 | -0.004 | 97 | 5006817 | 200.0 | 199.5 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.129 | 3.132 | -0.003 | 93 | 1876301 | 200.0 | 194.5 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.240 | 3.244 | -0.004 | 93 | 6347912 | 2000.0 | 1841.7 | |
| 32 Hexane | 57 | 3.322 | 3.332 | -0.010 | 94 | 1431881 | 200.0 | 212.4 | |
| 33 Isopropyl ether | 45 | 3.605 | 3.608 | -0.003 | 95 | 5112010 | 200.0 | 200.6 | |
| 34 1,1-Dichloroethane | 63 | 3.640 | 3.644 | -0.004 | 100 | 3399061 | 200.0 | 198.4 | |
| 35 Vinyl acetate | 43 | 3.669 | 3.673 | -0.004 | 99 | 5737980 | 400.0 | 395.6 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.687 | 3.691 | -0.004 | 89 | 1765801 | 200.0 | 229.4 | |
| 37 Tert-butyl ethyl ether | 59 | 3.998 | 4.002 | -0.004 | 91 | 5324251 | 200.0 | 198.6 | |
| 39 2,2-Dichloropropane | 79 | 4.245 | 4.249 | -0.004 | 95 | 857881 | 200.0 | 201.6 | |
| * 38 2-Butanone-d5 | 46 | 4.251 | 4.255 | -0.004 | 92 | 636024 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.280 | 4.284 | -0.004 | 93 | 2135094 | 200.0 | 189.1 | |
| 41 2-Butanone (MEK) | 72 | 4.315 | 4.319 | -0.004 | 98 | 1161402 | 1000.0 | 985.2 | |
| 42 Ethyl acetate | 43 | 4.321 | 4.325 | -0.004 | 99 | 6758901 | 400.0 | 393.6 | |
| 43 Methyl acrylate | 55 | 4.386 | 4.390 | -0.004 | 100 | 1729453 | 200.0 | 198.4 | |
| 44 Propionitrile | 54 | 4.486 | 4.484 | 0.002 | 98 | 2770097 | 2000.0 | 1997.4 | |
| 46 Chlorobromomethane | 128 | 4.556 | 4.560 | -0.004 | 82 | 1091815 | 200.0 | 194.2 | |
| 45 Tetrahydrofuran | 72 | 4.556 | 4.560 | -0.004 | 89 | 511472 | 400.0 | 382.8 | |
| 47 Methacrylonitrile | 67 | 4.609 | 4.607 | 0.002 | 84 | 7835661 | 2000.0 | 1940.7 | |
| 48 Chloroform | 83 | 4.627 | 4.625 | 0.002 | 99 | 3275372 | 200.0 | 204.7 | |
| 49 Cyclohexane | 56 | 4.762 | 4.760 | 0.002 | 89 | 2319434 | 200.0 | 228.9 | |
| 50 1,1,1-Trichloroethane | 97 | 4.785 | 4.789 | -0.004 | 98 | 2627290 | 200.0 | 202.1 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.815 | 4.819 | -0.004 | 98 | 357885 | 50.0 | 49.6 | |
| 52 Carbon tetrachloride | 117 | 4.926 | 4.924 | 0.002 | 97 | 2310492 | 200.0 | 214.1 | |
| 53 1,1-Dichloropropene | 75 | 4.973 | 4.977 | -0.004 | 97 | 2478147 | 200.0 | 202.8 | |
| 54 Isobutyl alcohol | 43 | 5.138 | 5.142 | -0.004 | 95 | 2223750 | 5000.0 | 5703.9 | |
| 55 Isooctane | 57 | 5.167 | 5.171 | -0.004 | 91 | 2945879 | 200.0 | 246.7 | |
| 56 Benzene | 78 | 5.209 | 5.212 | -0.003 | 96 | 7228525 | 200.0 | 198.9 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.238 | 5.236 | 0.002 | 63 | 409591 | 50.0 | 51.0 | |
| 59 Tert-amyl methyl ether | 73 | 5.291 | 5.289 | 0.002 | 93 | 5449625 | 200.0 | 203.3 | |
| 58 Isopropyl acetate | 43 | 5.291 | 5.295 | -0.004 | 98 | 4904620 | 200.0 | 201.7 | |
| 60 1,2-Dichloroethane | 62 | 5.326 | 5.324 | 0.002 | 98 | 2529080 | 200.0 | 196.1 | |
| 61 n-Heptane | 57 | 5.391 | 5.400 | -0.009 | 89 | 666723 | 200.0 | 210.2 | |
| * 62 Fluorobenzene | 96 | 5.555 | 5.553 | 0.002 | 99 | 1344273 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.914 | 5.917 | -0.003 | 87 | 1243640 | 5000.0 | 5741.9 | |
| 64 Trichloroethene | 95 | 5.961 | 5.959 | 0.002 | 97 | 1963513 | 200.0 | 202.9 | |
| 66 Methylcyclohexane | 83 | 6.096 | 6.100 | -0.004 | 83 | 1917663 | 200.0 | 233.1 | |
| 65 Ethyl acrylate | 55 | 6.113 | 6.111 | 0.002 | 99 | 3911818 | 200.0 | 214.5 | |
| 67 1,2-Dichloropropane | 63 | 6.301 | 6.299 | 0.002 | 91 | 1968976 | 200.0 | 202.0 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.366 | 6.370 | -0.004 | 76 | 96509 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.395 | 6.393 | 0.002 | 87 | 1254394 | 400.0 | 414.9 | |
| 70 1,4-Dioxane | 88 | 6.431 | 6.434 | -0.003 | 82 | 451005 | 4000.0 | 3520.9 | |
| 72 Dibromomethane | 93 | 6.448 | 6.446 | 0.002 | 92 | 1259553 | 200.0 | 198.1 | |
| 71 n-Propyl acetate | 43 | 6.454 | 6.458 | -0.004 | 97 | 2669518 | 200.0 | 196.7 | |
| 73 Dichlorobromomethane | 83 | 6.619 | 6.617 | 0.002 | 99 | 2592680 | 200.0 | 203.1 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.006 | 7.010 | -0.004 | 85 | 1479730 | 200.0 | 211.7 | |
| 75 2-Nitropropane | 41 | 7.012 | 7.016 | -0.004 | 83 | 968921 | 400.0 | 427.5 | |
| 76 Epichlorohydrin | 57 | 7.130 | 7.134 | -0.004 | 99 | 4057171 | 4000.0 | 4243.6 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.189 | 7.187 | 0.002 | 91 | 3381407 | 200.0 | 205.8 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.377 | 7.380 | -0.003 | 92 | 7931941 | 1000.0 | 1008.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.459 | 7.463 | -0.004 | 99 | 1486488 | 50.0 | 50.6 | |
| 80 Toluene | 91 | 7.547 | 7.545 | 0.002 | 95 | 7879400 | 200.0 | 196.2 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.929 | 7.933 | -0.004 | 96 | 3198431 | 200.0 | 215.5 | |
| 82 Ethyl methacrylate | 69 | 7.964 | 7.962 | 0.002 | 87 | 2668704 | 200.0 | 211.6 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.170 | 8.168 | 0.002 | 97 | 1675863 | 200.0 | 203.2 | |
| 84 Tetrachloroethene | 166 | 8.211 | 8.209 | 0.002 | 96 | 2153719 | 200.0 | 210.4 | |
| 85 1,3-Dichloropropane | 76 | 8.405 | 8.403 | 0.002 | 93 | 3207075 | 200.0 | 204.2 | |
| 86 2-Hexanone | 58 | 8.469 | 8.473 | -0.004 | 91 | 3851361 | 1000.0 | 1045.9 | |
| 87 n-Butyl acetate | 43 | 8.587 | 8.591 | -0.004 | 98 | 2935035 | 200.0 | 210.0 | |
| 88 Chlorodibromomethane | 129 | 8.652 | 8.650 | 0.002 | 98 | 2354802 | 200.0 | 212.1 | |
| 89 Ethylene Dibromide | 107 | 8.828 | 8.826 | 0.002 | 99 | 2084849 | 200.0 | 205.8 | |
| * 90 Chlorobenzene-d5 | 117 | 9.386 | 9.384 | 0.002 | 83 | 1208663 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.415 | 9.419 | -0.004 | 94 | 5656231 | 200.0 | 202.2 | |
| 92 Ethylbenzene | 106 | 9.509 | 9.507 | 0.002 | 97 | 2932295 | 200.0 | 206.6 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.521 | 9.525 | -0.004 | 96 | 2174329 | 200.0 | 210.7 | |
| 94 m-Xylene & p-Xylene | 106 | 9.645 | 9.642 | 0.002 | 94 | 3573341 | 200.0 | 207.7 | |
| 95 n-Butyl acrylate | 73 | 10.026 | 10.030 | -0.004 | 99 | 1837565 | 200.0 | 221.4 | |
| 96 o-Xylene | 106 | 10.056 | 10.054 | 0.002 | 97 | 3665997 | 200.0 | 202.3 | |
| 97 Styrene | 104 | 10.079 | 10.083 | -0.004 | 94 | 6136699 | 200.0 | 204.0 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.238 | 10.236 | 0.002 | 93 | 3527847 | 200.0 | 203.5 | |
| 99 Bromoform | 173 | 10.279 | 10.277 | 0.002 | 98 | 1706330 | 200.0 | 195.9 | |
| 100 Isopropylbenzene | 105 | 10.379 | 10.383 | -0.004 | 96 | 7053923 | 200.0 | 206.3 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.555 | 10.559 | -0.004 | 97 | 537573 | 50.0 | 51.0 | |
| 102 Bromobenzene | 156 | 10.679 | 10.677 | 0.002 | 93 | 2758801 | 200.0 | 191.9 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.702 | 10.706 | -0.004 | 97 | 2678169 | 200.0 | 193.7 | |
| 104 N-Propylbenzene | 91 | 10.726 | 10.729 | -0.003 | 97 | 7543532 | 200.0 | 177.9 | |
| 105 1,2,3-Trichloropropane | 110 | 10.749 | 10.747 | 0.002 | 97 | 789837 | 200.0 | 193.3 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.761 | 10.759 | 0.002 | 85 | 816558 | 200.0 | 207.7 | |
| 107 4-Ethyltoluene | 105 | 10.820 | 10.818 | 0.002 | 85 | 7129140 | 200.0 | 201.7 | |
| 108 2-Chlorotoluene | 91 | 10.820 | 10.818 | 0.002 | 95 | 6117773 | 200.0 | 193.0 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.872 | 10.870 | 0.002 | 96 | 5997905 | 200.0 | 197.6 | |
| 110 4-Chlorotoluene | 91 | 10.914 | 10.912 | 0.002 | 95 | 5870001 | 200.0 | 196.0 | |
| 111 Butyl Methacrylate | 87 | 10.937 | 10.935 | 0.002 | 89 | 3277233 | 200.0 | 216.7 | |
| 112 tert-Butylbenzene | 119 | 11.107 | 11.105 | 0.002 | 94 | 4908458 | 200.0 | 203.8 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.149 | 11.152 | -0.003 | 96 | 6334083 | 200.0 | 193.7 | |
| 114 sec-Butylbenzene | 105 | 11.260 | 11.264 | -0.004 | 96 | 6249818 | 200.0 | 199.1 | |
| 115 4-Isopropyltoluene | 119 | 11.360 | 11.364 | -0.004 | 95 | 5914738 | 200.0 | 205.1 | |
| 116 1,3-Dichlorobenzene | 146 | 11.372 | 11.376 | -0.004 | 95 | 4512394 | 200.0 | 196.4 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.425 | 11.423 | 0.002 | 90 | 734448 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.442 | 11.440 | 0.002 | 92 | 4622059 | 200.0 | 195.0 | |
| 119 Benzyl chloride | 91 | 11.542 | 11.540 | 0.002 | 98 | 5313781 | 200.0 | 213.9 | |
| 120 2,3-Dihydroindene | 117 | 11.589 | 11.587 | 0.002 | 96 | 7816786 | 200.0 | 177.3 | |
| 121 p-Diethylbenzene | 119 | 11.613 | 11.617 | -0.004 | 96 | 3816760 | 200.0 | 213.4 | |
| 122 n-Butylbenzene | 91 | 11.630 | 11.634 | -0.004 | 92 | 5959804 | 200.0 | 204.6 | |
| 123 1,2-Dichlorobenzene | 146 | 11.695 | 11.693 | 0.002 | 95 | 4578365 | 200.0 | 195.4 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.136 | 12.134 | 0.002 | 98 | 6001252 | 200.0 | 211.5 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.230 | 12.234 | -0.004 | 93 | 530021 | 200.0 | 206.9 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.324 | 12.322 | 0.002 | 97 | 2888764 | 200.0 | 207.2 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.782 | 12.786 | -0.004 | 94 | 2736121 | 200.0 | 210.6 | |
| 128 Hexachlorobutadiene | 225 | 12.847 | 12.850 | -0.003 | 98 | 1171067 | 200.0 | 200.9 | |
| 129 Naphthalene | 128 | 12.994 | 12.991 | 0.003 | 98 | 6765438 | 200.0 | 218.7 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.176 | 13.180 | -0.004 | 95 | 2334701 | 200.0 | 217.4 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 400.0 | 383.6 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 400.0 | 410.0 | |
| S 133 Total BTEX | 1 | | | | 0 | | 1000.0 | 1011.7 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GAS Hi_00140 | Amount Added: | 20.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 20.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00049 | Amount Added: | 20.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 30-Mar-2016 16:08:21 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38334.D

Injection Date: 29-Mar-2016 05:28:30 Instrument ID: CVOAMS8 Operator ID:

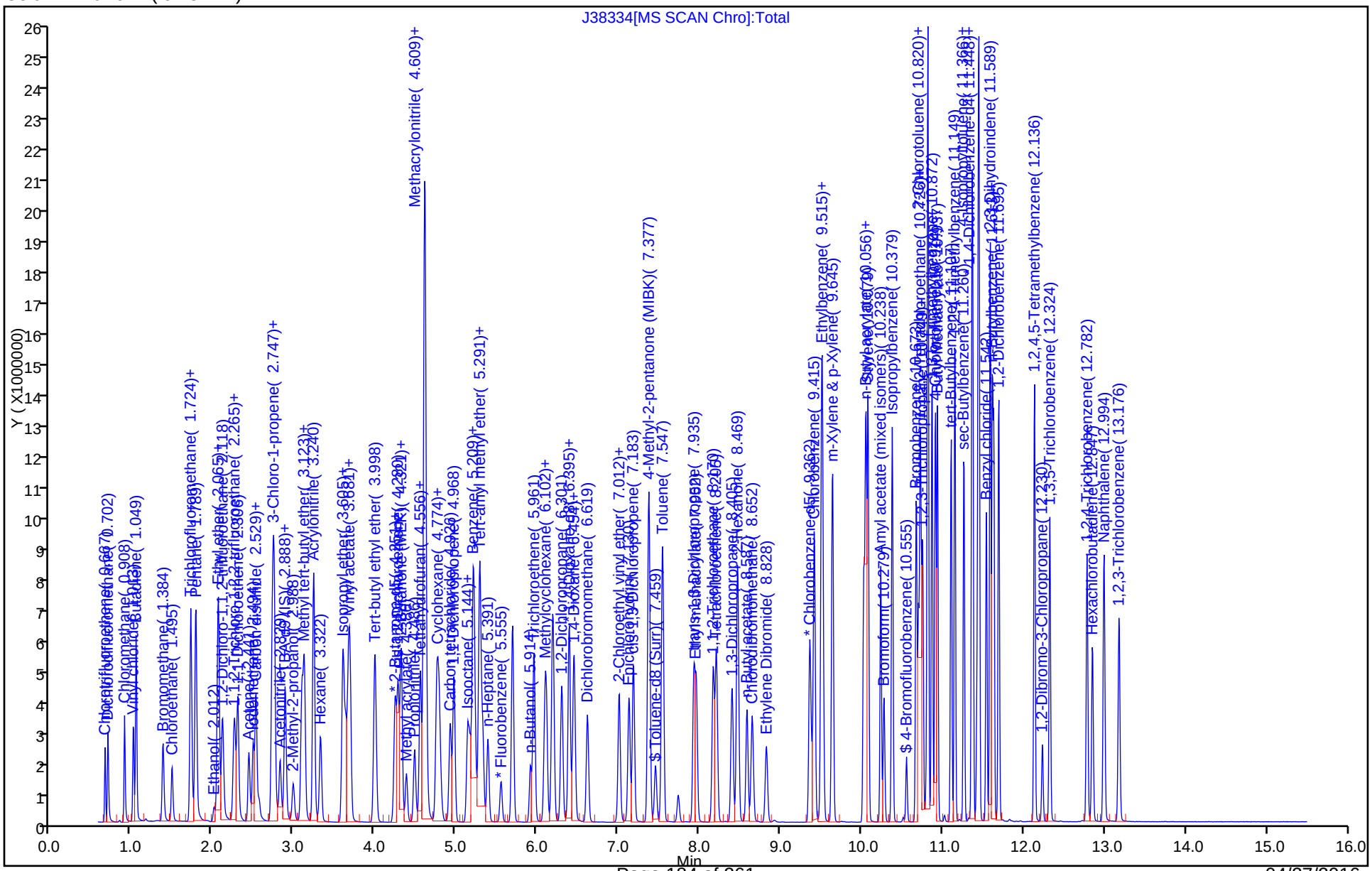
Lims ID: STD200 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Mar-2016 08:09:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0039111-008
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub47

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 30-Mar-2016 16:08:30 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: nimerd Date: 29-Mar-2016 10:59:04

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.671 | 0.671 | 0.000 | 94 | 516058 | 500.0 | 457.5 | |
| 2 Dichlorodifluoromethane | 85 | 0.706 | 0.706 | 0.000 | 99 | 3449763 | 500.0 | 349.4 | |
| 3 Chloromethane | 50 | 0.906 | 0.912 | -0.006 | 97 | 4982143 | 500.0 | 389.0 | |
| 4 Vinyl chloride | 62 | 1.018 | 1.023 | -0.005 | 96 | 5018693 | 500.0 | 391.2 | |
| 5 Butadiene | 54 | 1.053 | 1.058 | -0.005 | 94 | 3950944 | 500.0 | 385.5 | |
| 6 Bromomethane | 94 | 1.370 | 1.393 | -0.023 | 99 | 4047717 | 500.0 | 473.0 | |
| 7 Chloroethane | 64 | 1.488 | 1.499 | -0.011 | 99 | 3295882 | 500.0 | 402.2 | |
| 8 Dichlorofluoromethane | 67 | 1.723 | 1.734 | -0.011 | 94 | 7552136 | 500.0 | 382.6 | |
| 9 Trichlorofluoromethane | 101 | 1.723 | 1.734 | -0.011 | 73 | 5696773 | 500.0 | 385.6 | |
| 10 Pentane | 72 | 1.781 | 1.793 | -0.012 | 90 | 1262609 | 1000.0 | 1077.9 | |
| 11 Ethanol | 46 | 2.011 | 2.016 | -0.005 | 99 | 644118 | 20000 | 16935 | |
| 12 Ethyl ether | 59 | 2.052 | 2.063 | -0.011 | 94 | 3620552 | 500.0 | 432.2 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.063 | 2.075 | -0.012 | 96 | 3647056 | 500.0 | 467.9 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.110 | 2.122 | -0.012 | 90 | 3570182 | 500.0 | 437.7 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.257 | 2.263 | -0.006 | 98 | 3708756 | 500.0 | 484.0 | |
| 16 Acrolein | 56 | 2.275 | 2.286 | -0.011 | 95 | 749562 | 400.0 | 401.9 | |
| 17 1,1-Dichloroethene | 96 | 2.298 | 2.316 | -0.018 | 96 | 4115433 | 500.0 | 444.1 | |
| 18 Acetone | 43 | 2.439 | 2.451 | -0.012 | 89 | 6655404 | 2500.0 | 2438.3 | |
| 19 Iodomethane | 142 | 2.492 | 2.504 | -0.012 | 99 | 7247935 | 500.0 | 464.5 | |
| 20 Carbon disulfide | 76 | 2.528 | 2.533 | -0.005 | 99 | 12016799 | 500.0 | 370.8 | |
| 21 Isopropyl alcohol | 45 | 2.569 | 2.574 | -0.005 | 99 | 2188231 | 5000.0 | 4501.8 | |
| 22 3-Chloro-1-propene | 76 | 2.721 | 2.727 | -0.006 | 86 | 2714449 | 500.0 | 463.0 | |
| 24 Cyclopentene | 67 | 2.739 | 2.751 | -0.012 | 92 | 10307279 | 500.0 | 451.9 | |
| 23 Methyl acetate | 43 | 2.751 | 2.762 | -0.011 | 95 | 11797350 | 2500.0 | 1726.9 | |
| 25 Acetonitrile | 41 | 2.827 | 2.833 | -0.006 | 97 | 5607628 | 5000.0 | 4759.8 | |
| 27 Methylene Chloride | 84 | 2.886 | 2.892 | -0.006 | 88 | 4766021 | 500.0 | 421.1 | |
| * 26 TBA-d9 (IS) | 65 | 2.904 | 2.903 | 0.001 | 83 | 594266 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.992 | 2.991 | 0.001 | 99 | 3696465 | 5000.0 | 4515.5 | |
| 29 Methyl tert-butyl ether | 73 | 3.097 | 3.103 | -0.006 | 97 | 11573696 | 500.0 | 404.2 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.121 | 3.132 | -0.011 | 94 | 4726491 | 500.0 | 429.3 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.244 | 3.244 | 0.000 | 88 | 13009640 | 5000.0 | 3514.1 | |
| 32 Hexane | 57 | 3.321 | 3.332 | -0.011 | 95 | 3572670 | 500.0 | 463.7 | |
| 33 Isopropyl ether | 45 | 3.597 | 3.608 | -0.011 | 90 | 11552538 | 500.0 | 397.1 | |
| 34 1,1-Dichloroethane | 63 | 3.632 | 3.644 | -0.012 | 99 | 8513109 | 500.0 | 435.5 | |
| 35 Vinyl acetate | 43 | 3.667 | 3.673 | -0.006 | 99 | 12846320 | 1000.0 | 776.1 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.685 | 3.691 | -0.006 | 90 | 4381175 | 500.0 | 498.8 | |
| 37 Tert-butyl ethyl ether | 59 | 3.991 | 4.002 | -0.011 | 95 | 12261570 | 500.0 | 400.8 | |
| 39 2,2-Dichloropropane | 79 | 4.243 | 4.249 | -0.006 | 95 | 2311620 | 500.0 | 475.9 | |
| * 38 2-Butanone-d5 | 46 | 4.249 | 4.255 | -0.006 | 17 | 677011 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.278 | 4.284 | -0.006 | 92 | 5395926 | 500.0 | 418.8 | |
| 41 2-Butanone (MEK) | 72 | 4.314 | 4.319 | -0.005 | 100 | 2921671 | 2500.0 | 2328.3 | |
| 42 Ethyl acetate | 43 | 4.320 | 4.325 | -0.005 | 98 | 13840472 | 1000.0 | 757.3 | |
| 43 Methyl acrylate | 55 | 4.384 | 4.390 | -0.006 | 99 | 4285742 | 500.0 | 430.7 | |
| 44 Propionitrile | 54 | 4.490 | 4.484 | 0.006 | 98 | 6521473 | 5000.0 | 4377.9 | |
| 46 Chlorobromomethane | 128 | 4.555 | 4.560 | -0.005 | 82 | 2805713 | 500.0 | 437.2 | |
| 45 Tetrahydrofuran | 72 | 4.549 | 4.560 | -0.011 | 90 | 1244803 | 1000.0 | 875.2 | |
| 47 Methacrylonitrile | 67 | 4.613 | 4.607 | 0.006 | 68 | 15246929 | 5000.0 | 3309.1 | |
| 48 Chloroform | 83 | 4.631 | 4.625 | 0.006 | 97 | 7838013 | 500.0 | 429.2 | |
| 49 Cyclohexane | 56 | 4.754 | 4.760 | -0.006 | 89 | 5441541 | 500.0 | 470.5 | |
| 50 1,1,1-Trichloroethane | 97 | 4.784 | 4.789 | -0.005 | 99 | 6481298 | 500.0 | 437.0 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.813 | 4.819 | -0.006 | 98 | 385296 | 50.0 | 46.8 | |
| 52 Carbon tetrachloride | 117 | 4.925 | 4.924 | 0.001 | 99 | 5621174 | 500.0 | 456.4 | |
| 53 1,1-Dichloropropene | 75 | 4.966 | 4.977 | -0.011 | 95 | 6073922 | 500.0 | 435.5 | |
| 54 Isobutyl alcohol | 43 | 5.142 | 5.142 | 0.000 | 95 | 5256576 | 12500 | 12553 | |
| 55 Isooctane | 57 | 5.166 | 5.171 | -0.005 | 95 | 7482755 | 500.0 | 549.1 | |
| 56 Benzene | 78 | 5.207 | 5.212 | -0.005 | 97 | 14812102 | 500.0 | 377.3 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.230 | 5.236 | -0.006 | 42 | 436894 | 50.0 | 47.7 | |
| 59 Tert-amyl methyl ether | 73 | 5.283 | 5.289 | -0.006 | 93 | 12454826 | 500.0 | 407.2 | |
| 58 Isopropyl acetate | 43 | 5.289 | 5.295 | -0.006 | 97 | 10659900 | 500.0 | 384.1 | |
| 60 1,2-Dichloroethane | 62 | 5.324 | 5.324 | 0.000 | 96 | 6155865 | 500.0 | 418.3 | |
| 61 n-Heptane | 57 | 5.389 | 5.400 | -0.011 | 89 | 1734937 | 500.0 | 478.6 | |
| * 62 Fluorobenzene | 96 | 5.548 | 5.553 | -0.005 | 99 | 1534101 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.918 | 5.917 | 0.001 | 86 | 2817230 | 12500 | 12110 | |
| 64 Trichloroethene | 95 | 5.953 | 5.959 | -0.006 | 97 | 4896823 | 500.0 | 443.4 | |
| 66 Methylcyclohexane | 83 | 6.094 | 6.100 | -0.006 | 82 | 4660894 | 500.0 | 496.4 | |
| 65 Ethyl acrylate | 55 | 6.112 | 6.111 | 0.001 | 99 | 9076805 | 500.0 | 436.1 | |
| 67 1,2-Dichloropropane | 63 | 6.300 | 6.299 | 0.001 | 89 | 4965401 | 500.0 | 446.3 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.358 | 6.370 | -0.012 | 35 | 71140 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.388 | 6.393 | -0.005 | 82 | 3097680 | 1000.0 | 897.8 | |
| 70 1,4-Dioxane | 88 | 6.429 | 6.434 | -0.005 | 80 | 991599 | 10000 | 10502 | |
| 72 Dibromomethane | 93 | 6.446 | 6.446 | 0.000 | 93 | 3125784 | 500.0 | 430.8 | |
| 71 n-Propyl acetate | 43 | 6.452 | 6.458 | -0.006 | 98 | 6214313 | 500.0 | 401.2 | |
| 73 Dichlorobromomethane | 83 | 6.617 | 6.617 | 0.000 | 99 | 6360965 | 500.0 | 436.6 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.005 | 7.010 | -0.005 | 93 | 3713437 | 500.0 | 465.5 | |
| 75 2-Nitropropane | 41 | 7.011 | 7.016 | -0.005 | 99 | 2526978 | 1000.0 | 977.0 | |
| 76 Epichlorohydrin | 57 | 7.128 | 7.134 | -0.006 | 98 | 9146950 | 10000 | 8988.0 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.181 | 7.187 | -0.006 | 91 | 8215207 | 500.0 | 462.8 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.375 | 7.380 | -0.005 | 81 | 15080749 | 2500.0 | 1800.4 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.457 | 7.463 | -0.006 | 99 | 1613220 | 50.0 | 50.9 | |
| 80 Toluene | 91 | 7.539 | 7.545 | -0.006 | 97 | 15425950 | 500.0 | 355.6 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.927 | 7.933 | -0.006 | 97 | 7680371 | 500.0 | 479.1 | |
| 82 Ethyl methacrylate | 69 | 7.956 | 7.962 | -0.006 | 88 | 6421730 | 500.0 | 446.2 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.168 | 8.168 | 0.000 | 96 | 4135352 | 500.0 | 464.2 | |
| 84 Tetrachloroethene | 166 | 8.203 | 8.209 | -0.006 | 96 | 5277543 | 500.0 | 477.2 | |
| 85 1,3-Dichloropropane | 76 | 8.397 | 8.403 | -0.006 | 93 | 7641027 | 500.0 | 450.5 | |
| 86 2-Hexanone | 58 | 8.468 | 8.473 | -0.005 | 85 | 8596721 | 2500.0 | 2193.3 | |
| 87 n-Butyl acetate | 43 | 8.585 | 8.591 | -0.006 | 96 | 6761466 | 500.0 | 448.0 | |
| 88 Chlorodibromomethane | 129 | 8.650 | 8.650 | 0.000 | 98 | 5784035 | 500.0 | 482.3 | |
| 89 Ethylene Dibromide | 107 | 8.826 | 8.826 | 0.000 | 99 | 5047975 | 500.0 | 461.2 | |
| * 90 Chlorobenzene-d5 | 117 | 9.378 | 9.384 | -0.006 | 82 | 1305501 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.414 | 9.419 | -0.005 | 91 | 11905513 | 500.0 | 394.1 | |
| 92 Ethylbenzene | 106 | 9.508 | 9.507 | 0.001 | 90 | 6983027 | 500.0 | 455.6 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.519 | 9.525 | -0.006 | 97 | 5333277 | 500.0 | 478.5 | |
| 94 m-Xylene & p-Xylene | 106 | 9.637 | 9.642 | -0.005 | 86 | 8282968 | 500.0 | 445.7 | |
| 95 n-Butyl acrylate | 73 | 10.025 | 10.030 | -0.005 | 93 | 4430759 | 500.0 | 494.3 | |
| 96 o-Xylene | 106 | 10.048 | 10.054 | -0.006 | 93 | 8364524 | 500.0 | 427.4 | |
| 97 Styrene | 104 | 10.078 | 10.083 | -0.005 | 80 | 11918927 | 500.0 | 366.8 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.236 | 10.236 | 0.000 | 93 | 7593654 | 500.0 | 413.1 | |
| 99 Bromoform | 173 | 10.271 | 10.277 | -0.006 | 96 | 4222298 | 500.0 | 448.7 | |
| 100 Isopropylbenzene | 105 | 10.377 | 10.383 | -0.006 | 90 | 12410501 | 500.0 | 336.1 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.553 | 10.559 | -0.006 | 96 | 580579 | 50.0 | 51.0 | |
| 102 Bromobenzene | 156 | 10.671 | 10.677 | -0.006 | 90 | 6491032 | 500.0 | 425.8 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.700 | 10.706 | -0.006 | 98 | 6101432 | 500.0 | 416.2 | |
| 104 N-Propylbenzene | 91 | 10.724 | 10.729 | -0.005 | 89 | 13054755 | 500.0 | 290.4 | |
| 105 1,2,3-Trichloropropane | 110 | 10.747 | 10.747 | 0.000 | 98 | 1989940 | 500.0 | 459.4 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.759 | 10.759 | 0.000 | 93 | 2017845 | 500.0 | 484.0 | |
| 107 4-Ethyltoluene | 105 | 10.818 | 10.818 | 0.000 | 71 | 12623216 | 500.0 | 336.9 | |
| 108 2-Chlorotoluene | 91 | 10.818 | 10.818 | 0.000 | 85 | 11180613 | 500.0 | 332.7 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.871 | 10.870 | 0.001 | 91 | 10733778 | 500.0 | 333.5 | |
| 110 4-Chlorotoluene | 91 | 10.912 | 10.912 | 0.000 | 86 | 10667359 | 500.0 | 336.0 | |
| 111 Butyl Methacrylate | 87 | 10.935 | 10.935 | 0.000 | 89 | 7156704 | 500.0 | 446.4 | |
| 112 tert-Butylbenzene | 119 | 11.106 | 11.105 | 0.001 | 86 | 9719460 | 500.0 | 380.7 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.153 | 11.152 | 0.001 | 85 | 10923557 | 500.0 | 315.1 | |
| 114 sec-Butylbenzene | 105 | 11.259 | 11.264 | -0.006 | 99 | 11066878 | 500.0 | 332.4 | |
| 115 4-Isopropyltoluene | 119 | 11.358 | 11.364 | -0.006 | 98 | 10328567 | 500.0 | 337.8 | |
| 116 1,3-Dichlorobenzene | 146 | 11.370 | 11.376 | -0.006 | 87 | 8798932 | 500.0 | 361.2 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.423 | 11.423 | 0.000 | 92 | 778745 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.441 | 11.440 | 0.001 | 84 | 8934641 | 500.0 | 355.5 | |
| 119 Benzyl chloride | 91 | 11.541 | 11.540 | 0.001 | 90 | 9985758 | 500.0 | 379.1 | |
| 120 2,3-Dihydroindene | 117 | 11.588 | 11.587 | 0.001 | 82 | 12918539 | 500.0 | 276.4 | |
| 121 p-Diethylbenzene | 119 | 11.611 | 11.617 | -0.006 | 90 | 7863106 | 500.0 | 414.7 | |
| 122 n-Butylbenzene | 91 | 11.629 | 11.634 | -0.005 | 88 | 11302462 | 500.0 | 365.9 | |
| 123 1,2-Dichlorobenzene | 146 | 11.693 | 11.693 | 0.000 | 85 | 8787617 | 500.0 | 353.7 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.134 | 12.134 | 0.000 | 92 | 10649608 | 500.0 | 354.0 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.228 | 12.234 | -0.006 | 93 | 1214003 | 500.0 | 446.9 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.322 | 12.322 | 0.000 | 96 | 6340996 | 500.0 | 428.8 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.780 | 12.786 | -0.006 | 95 | 6201202 | 500.0 | 450.1 | |
| 128 Hexachlorobutadiene | 225 | 12.845 | 12.850 | -0.005 | 98 | 2944673 | 500.0 | 476.5 | |
| 129 Naphthalene | 128 | 12.986 | 12.991 | -0.005 | 94 | 12449450 | 500.0 | 379.6 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.174 | 13.180 | -0.006 | 95 | 5241443 | 500.0 | 460.3 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 1000.0 | 848.2 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 1000.0 | 873.2 | |
| S 133 Total BTEX | 1 | | | | 0 | | 2500.0 | 2061.6 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GAS Hi_00140 | Amount Added: | 50.00 | Units: uL | |
| MIX I Hi_00054 | Amount Added: | 50.00 | Units: uL | |
| MIX 2 Hi_00042 | Amount Added: | 50.00 | Units: uL | |
| ACROLEIN W_00049 | Amount Added: | 40.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 30-Mar-2016 16:08:34 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Injection Date: 29-Mar-2016 08:09:30 Instrument ID: CVOAMS8 Operator ID:

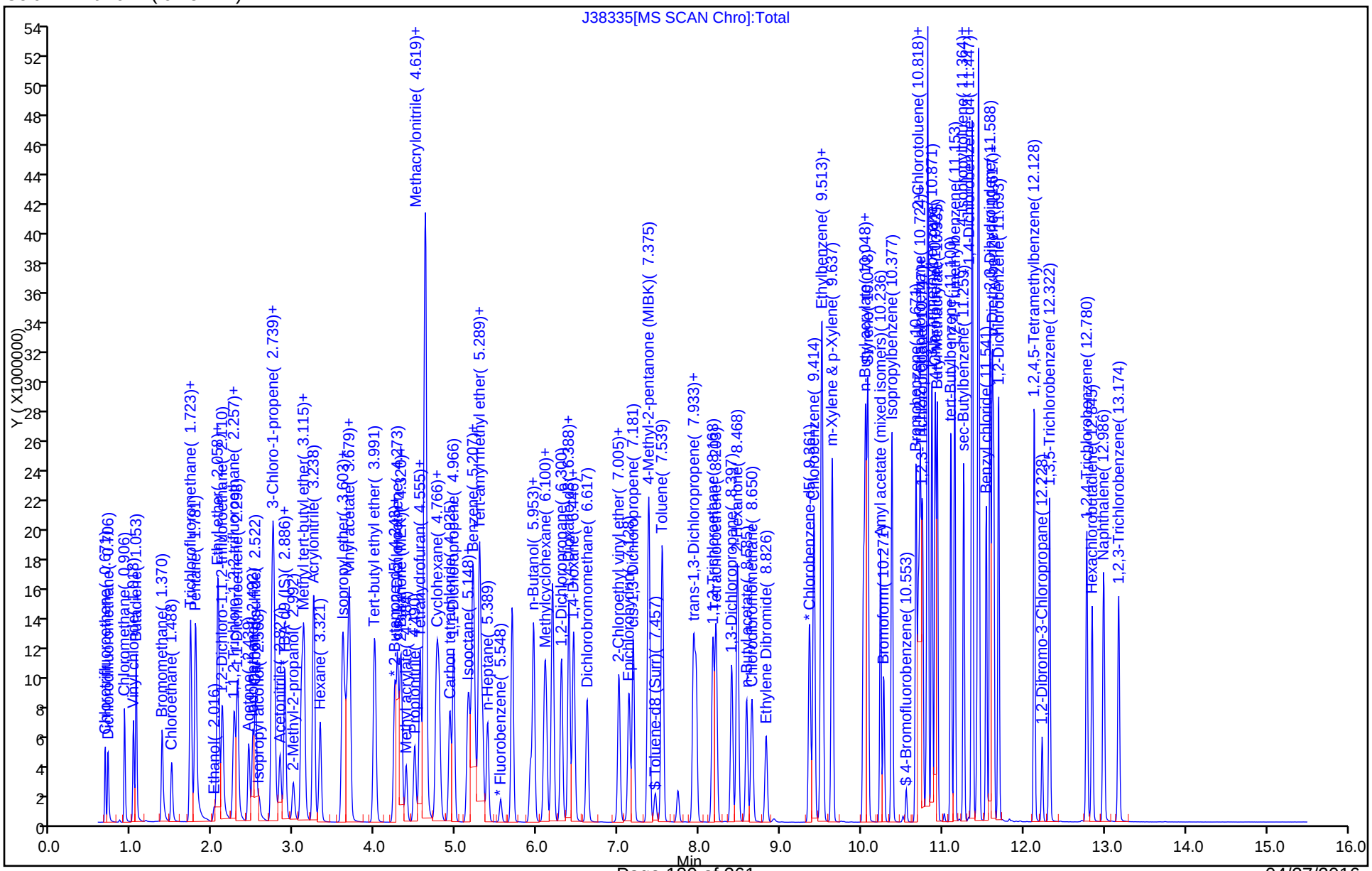
Lims ID: STD500 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364590/2  Calibration Date: 04/25/2016 21:24

Instrument ID: CVOAMS8  Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624  ID: 0.25(mm)  Calib End Date: 03/29/2016 08:09

Lab File ID: J39698.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Chlorotrifluoroethene | Ave | 0.0368 | 0.0238 | | 12.9 | 20.0 | -35.4* | 20.0 |
| Dichlorodifluoromethane | Ave | 0.3218 | 0.3696 | 0.1000 | 23.0 | 20.0 | 14.8 | 20.0 |
| Chloromethane | Ave | 0.4174 | 0.4380 | 0.1000 | 21.0 | 20.0 | 4.9 | 20.0 |
| Vinyl chloride | Ave | 0.4181 | 0.4419 | 0.1000 | 21.1 | 20.0 | 5.7 | 20.0 |
| Butadiene | Ave | 0.3341 | 0.3733 | | 22.3 | 20.0 | 11.7 | 20.0 |
| Bromomethane | Ave | 0.2789 | 0.2442 | 0.1000 | 17.5 | 20.0 | -12.4 | 50.0 |
| Chloroethane | Ave | 0.2671 | 0.2672 | 0.1000 | 20.0 | 20.0 | 0.0 | 50.0 |
| Dichlorofluoromethane | Ave | 0.6434 | 0.6738 | | 20.9 | 20.0 | 4.7 | 20.0 |
| Trichlorofluoromethane | Ave | 0.4815 | 0.5779 | 0.1000 | 24.0 | 20.0 | 20.0 | 20.0 |
| Pentane | Ave | 1.971 | 1.921 | | 39.0 | 40.0 | -2.5 | 20.0 |
| Ethanol | Ave | 0.0640 | 0.0588 | | 735 | 800 | -8.1 | 50.0 |
| Ethyl ether | Ave | 0.2730 | 0.2956 | | 21.7 | 20.0 | 8.3 | 20.0 |
| 2-Methyl-1,3-butadiene | Ave | 0.2541 | 0.2587 | | 20.4 | 20.0 | 1.8 | 20.0 |
| 1,2-Dichloro-1,1,2-trifluoro ethane | Ave | 0.2659 | 0.2585 | | 19.4 | 20.0 | -2.8 | 20.0 |
| Freon TF | Ave | 0.2497 | 0.2832 | 0.1000 | 22.7 | 20.0 | 13.4 | 20.0 |
| Acrolein | Ave | 3.138 | 3.299 | | 42.0 | 40.0 | 5.1 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.3020 | 0.2935 | 0.1000 | 19.4 | 20.0 | -2.8 | 20.0 |
| Acetone | Lin2 | | 0.9353 | 0.0500 | 89.9 | 100 | -10.1 | 50.0 |
| Iodomethane | Ave | 0.5086 | 0.4536 | | 17.8 | 20.0 | -10.8 | 20.0 |
| Carbon disulfide | Ave | 1.056 | 1.041 | 0.1000 | 19.7 | 20.0 | -1.4 | 50.0 |
| Isopropyl alcohol | Ave | 0.8179 | 0.7629 | | 187 | 200 | -6.7 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1911 | 0.1845 | | 19.3 | 20.0 | -3.4 | 20.0 |
| Cyclopentene | Ave | 0.7434 | 0.7378 | | 19.8 | 20.0 | -0.8 | 20.0 |
| Methyl acetate | Ave | 0.2227 | 0.2646 | 0.1000 | 119 | 100 | 18.8 | 20.0 |
| Acetonitrile | Ave | 1.982 | 1.905 | | 192 | 200 | -3.9 | 20.0 |
| Methylene Chloride | Ave | 0.3689 | 0.3697 | 0.1000 | 20.0 | 20.0 | 0.2 | 20.0 |
| 2-Methyl-2-propanol | Lin2 | | 1.592 | | 224 | 200 | 11.8 | 50.0 |
| MTBE | Ave | 0.9333 | 0.9908 | 0.1000 | 21.2 | 20.0 | 6.2 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.3588 | 0.3351 | 0.1000 | 18.7 | 20.0 | -6.6 | 20.0 |
| Acrylonitrile | Ave | 6.230 | 6.368 | | 204 | 200 | 2.2 | 20.0 |
| Hexane | Lin2 | | 0.2456 | | 20.1 | 20.0 | 0.3 | 20.0 |
| Isopropyl ether | Ave | 0.9481 | 1.085 | | 22.9 | 20.0 | 14.4 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6371 | 0.6315 | 0.2000 | 19.8 | 20.0 | -0.9 | 20.0 |
| Vinyl acetate | Ave | 0.5395 | 0.7002 | | 51.9 | 40.0 | 29.8* | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.2863 | 0.2884 | | 20.1 | 20.0 | 0.7 | 20.0 |
| Tert-butyl ethyl ether | Ave | 0.997 | 1.084 | | 21.7 | 20.0 | 8.7 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.1583 | 0.1595 | | 20.2 | 20.0 | 0.8 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.4199 | 0.3783 | 0.1000 | 18.0 | 20.0 | -9.9 | 20.0 |
| 2-Butanone | Ave | 0.4634 | 0.3791 | 0.0500 | 81.8 | 100 | -18.2 | 50.0 |
| Ethyl acetate | Ave | 6.749 | 7.135 | | 42.3 | 40.0 | 5.7 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364590/2 Calibration Date: 04/25/2016 21:24

Instrument ID: CVOAMS8 Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/29/2016 08:09

Lab File ID: J39698.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acrylate | Ave | 0.3243 | 0.3414 | | 21.1 | 20.0 | 5.3 | 20.0 |
| Propionitrile | Ave | 2.507 | 2.334 | | 186 | 200 | -6.9 | 20.0 |
| Bromochloromethane | Ave | 0.2091 | 0.2006 | | 19.2 | 20.0 | -4.1 | 20.0 |
| Tetrahydrofuran | Ave | 0.5252 | 0.4755 | | 36.2 | 40.0 | -9.5 | 20.0 |
| Methacrylonitrile | Ave | 0.1502 | 0.1620 | | 216 | 200 | 7.9 | 20.0 |
| Chloroform | Ave | 0.5952 | 0.6417 | 0.2000 | 21.6 | 20.0 | 7.8 | 20.0 |
| Cyclohexane | Ave | 0.3769 | 0.4182 | 0.1000 | 22.2 | 20.0 | 10.9 | 50.0 |
| 1,1,1-Trichloroethane | Ave | 0.4834 | 0.4871 | 0.1000 | 20.2 | 20.0 | 0.8 | 20.0 |
| Carbon tetrachloride | Ave | 0.4014 | 0.4164 | 0.1000 | 20.7 | 20.0 | 3.7 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4545 | 0.4491 | | 19.8 | 20.0 | -1.2 | 20.0 |
| Isobutyl alcohol | Ave | 0.7047 | 0.7888 | | 560 | 500 | 11.9 | 50.0 |
| Isooctane | Ave | 0.4442 | 0.5332 | | 24.0 | 20.0 | 20.0 | 20.0 |
| Benzene | Ave | 1.504 | 1.624 | 0.5000 | 21.6 | 20.0 | 8.0 | 20.0 |
| Isopropyl acetate | Ave | 0.9044 | 1.011 | | 22.4 | 20.0 | 11.8 | 20.0 |
| Tert-amyl methyl ether | Ave | 0.997 | 1.047 | | 21.0 | 20.0 | 5.1 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4796 | 0.5086 | 0.1000 | 21.2 | 20.0 | 6.0 | 20.0 |
| n-Heptane | Lin2 | | 0.1162 | | 20.2 | 20.0 | 0.9 | 20.0 |
| n-Butanol | Ave | 0.3915 | 0.3777 | | 482 | 500 | -3.5 | 50.0 |
| Trichloroethene | Ave | 0.3600 | 0.3525 | 0.2000 | 19.6 | 20.0 | -2.1 | 20.0 |
| Methylcyclohexane | Ave | 0.3060 | 0.3429 | 0.1000 | 22.4 | 20.0 | 12.1 | 50.0 |
| Ethyl acrylate | Ave | 0.6784 | 0.7254 | | 21.4 | 20.0 | 6.9 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3626 | 0.3763 | 0.1000 | 20.8 | 20.0 | 3.8 | 20.0 |
| Methyl methacrylate | Ave | 0.1125 | 0.1071 | | 38.1 | 40.0 | -4.7 | 20.0 |
| 1,4-Dioxane | Ave | 1.327 | 1.048 | | 316 | 400 | -21.1 | 50.0 |
| Dibromomethane | Ave | 0.2365 | 0.2371 | | 20.1 | 20.0 | 0.3 | 20.0 |
| n-Propyl acetate | Ave | 0.5049 | 0.5484 | | 21.7 | 20.0 | 8.6 | 20.0 |
| Bromodichloromethane | Ave | 0.4749 | 0.5041 | 0.2000 | 21.2 | 20.0 | 6.2 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.2600 | 0.2482 | | 19.1 | 20.0 | -4.5 | 20.0 |
| 2-Nitropropane | Ave | 0.0843 | 0.0960 | | 45.5 | 40.0 | 13.9 | 20.0 |
| Epichlorohydrin | Ave | 0.3758 | 0.3806 | | 405 | 400 | 1.3 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 0.6799 | 0.6960 | 0.2000 | 20.5 | 20.0 | 2.4 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 3.093 | 3.291 | 0.0500 | 106 | 100 | 6.4 | 50.0 |
| Toluene | Ave | 1.661 | 1.674 | 0.4000 | 20.2 | 20.0 | 0.8 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.6140 | 0.6470 | 0.1000 | 21.1 | 20.0 | 5.4 | 50.0 |
| Ethyl methacrylate | Ave | 0.4691 | 0.4792 | | 20.4 | 20.0 | 2.2 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.3412 | 0.3398 | 0.1000 | 19.9 | 20.0 | -0.4 | 20.0 |
| Tetrachloroethene | Ave | 0.4235 | 0.4105 | 0.2000 | 19.4 | 20.0 | -3.1 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6496 | 0.6537 | | 20.1 | 20.0 | 0.6 | 20.0 |
| 2-Hexanone | Ave | 1.447 | 1.293 | 0.0500 | 89.3 | 100 | -10.7 | 50.0 |
| n-Butyl acetate | Ave | 0.5781 | 0.6357 | | 22.0 | 20.0 | 10.0 | 20.0 |
| Dibromochloromethane | Ave | 0.4593 | 0.4786 | 0.1000 | 20.8 | 20.0 | 4.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364590/2 Calibration Date: 04/25/2016 21:24

Instrument ID: CVOAMS8 Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/29/2016 08:09

Lab File ID: J39698.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | Ave | 0.4192 | 0.4044 | 0.1000 | 19.3 | 20.0 | -3.5 | 20.0 |
| Chlorobenzene | Ave | 1.157 | 1.211 | 0.5000 | 20.9 | 20.0 | 4.6 | 20.0 |
| Ethylbenzene | Ave | 0.5871 | 0.5675 | 0.1000 | 19.3 | 20.0 | -3.3 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.4269 | 0.4234 | | 19.8 | 20.0 | -0.8 | 20.0 |
| m&p-Xylene | Ave | 0.7117 | 0.6839 | 0.1000 | 19.2 | 20.0 | -3.9 | 20.0 |
| n-Butyl acrylate | Ave | 0.3433 | 0.3351 | | 19.5 | 20.0 | -2.4 | 20.0 |
| o-Xylene | Ave | 0.7495 | 0.7177 | 0.3000 | 19.1 | 20.0 | -4.3 | 20.0 |
| Styrene | Ave | 1.244 | 1.289 | 0.3000 | 20.7 | 20.0 | 3.6 | 20.0 |
| Amyl acetate (mixed isomers) | Ave | 1.180 | 1.267 | | 21.5 | 20.0 | 7.3 | 20.0 |
| Bromoform | Ave | 0.3604 | 0.3228 | 0.1000 | 17.9 | 20.0 | -10.4 | 20.0 |
| Isopropylbenzene | Ave | 1.414 | 1.512 | 0.1000 | 21.4 | 20.0 | 6.9 | 20.0 |
| Bromobenzene | Ave | 0.9787 | 0.9588 | | 19.6 | 20.0 | -2.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9413 | 0.9228 | 0.3000 | 19.6 | 20.0 | -2.0 | 20.0 |
| N-Propylbenzene | Ave | 2.886 | 2.918 | | 20.2 | 20.0 | 1.1 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2781 | 0.2462 | | 17.7 | 20.0 | -11.5 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2677 | 0.2734 | | 20.4 | 20.0 | 2.1 | 20.0 |
| 2-Chlorotoluene | Ave | 2.158 | 2.213 | | 20.5 | 20.0 | 2.6 | 20.0 |
| 4-Ethyltoluene | Ave | 2.406 | 2.592 | | 21.5 | 20.0 | 7.7 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.067 | 2.233 | | 21.6 | 20.0 | 8.1 | 20.0 |
| 4-Chlorotoluene | Ave | 2.039 | 2.171 | | 21.3 | 20.0 | 6.5 | 20.0 |
| Butyl Methacrylate | Ave | 1.029 | 1.040 | | 20.2 | 20.0 | 1.0 | 20.0 |
| tert-Butylbenzene | Ave | 1.639 | 1.691 | | 20.6 | 20.0 | 3.1 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.226 | 2.404 | | 21.6 | 20.0 | 8.0 | 20.0 |
| sec-Butylbenzene | Ave | 2.137 | 2.244 | | 21.0 | 20.0 | 5.0 | 20.0 |
| 4-Isopropyltoluene | Ave | 1.963 | 2.128 | | 21.7 | 20.0 | 8.4 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.564 | 1.535 | 0.6000 | 19.6 | 20.0 | -1.9 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.614 | 1.640 | 0.5000 | 20.3 | 20.0 | 1.6 | 20.0 |
| Benzyl chloride | Ave | 1.691 | 1.790 | | 21.2 | 20.0 | 5.8 | 50.0 |
| Indan | Ave | 3.001 | 2.981 | | 19.9 | 20.0 | -0.7 | 20.0 |
| p-Diethylbenzene | Ave | 1.218 | 1.326 | | 21.8 | 20.0 | 8.9 | 20.0 |
| n-Butylbenzene | Ave | 1.983 | 2.116 | | 21.3 | 20.0 | 6.7 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.595 | 1.621 | 0.4000 | 20.3 | 20.0 | 1.6 | 20.0 |
| 1,2,4,5-Tetramethylbenzene | Ave | 1.932 | 2.221 | | 23.0 | 20.0 | 15.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1744 | 0.1669 | 0.0500 | 19.1 | 20.0 | -4.3 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.9494 | 0.9618 | | 20.3 | 20.0 | 1.3 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.8847 | 0.8607 | 0.2000 | 19.5 | 20.0 | -2.7 | 20.0 |
| Hexachlorobutadiene | Ave | 0.3968 | 0.3685 | | 18.6 | 20.0 | -7.1 | 20.0 |
| Naphthalene | Ave | 2.106 | 2.106 | | 20.0 | 20.0 | 0.0 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.7312 | 0.7163 | | 19.6 | 20.0 | -2.0 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2684 | 0.2739 | | 51.0 | 50.0 | 2.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2986 | 0.3143 | | 52.6 | 50.0 | 5.3 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364590/2 Calibration Date: 04/25/2016 21:24

Instrument ID: CVOAMS8 Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/29/2016 08:09

Lab File ID: J39698.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.214 | 1.201 | | 49.5 | 50.0 | -1.1 | 20.0 |
| Bromofluorobenzene | Ave | 0.4361 | 0.4092 | | 46.9 | 50.0 | -6.2 | 20.0 |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39698.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Apr-2016 21:24:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0040266-002
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:38:22 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: starzecm Date: 25-Apr-2016 22:08:36

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.670 | 0.670 | 0.000 | 90 | 9409 | 20.0 | 12.9 | |
| 2 Dichlorodifluoromethane | 85 | 0.706 | 0.706 | 0.000 | 98 | 146342 | 20.0 | 23.0 | |
| 3 Chloromethane | 50 | 0.911 | 0.911 | 0.000 | 99 | 173422 | 20.0 | 21.0 | |
| 4 Vinyl chloride | 62 | 1.017 | 1.017 | 0.000 | 98 | 174992 | 20.0 | 21.1 | |
| 5 Butadiene | 54 | 1.052 | 1.052 | 0.000 | 96 | 147821 | 20.0 | 22.3 | |
| 6 Bromomethane | 94 | 1.387 | 1.387 | 0.000 | 98 | 96707 | 20.0 | 17.5 | |
| 7 Chloroethane | 64 | 1.493 | 1.493 | 0.000 | 99 | 105787 | 20.0 | 20.0 | |
| 8 Dichlorofluoromethane | 67 | 1.722 | 1.722 | 0.000 | 96 | 266823 | 20.0 | 20.9 | |
| 9 Trichlorofluoromethane | 101 | 1.728 | 1.728 | 0.000 | 80 | 228839 | 20.0 | 24.0 | |
| 10 Pentane | 72 | 1.787 | 1.787 | 0.000 | 95 | 32796 | 40.0 | 39.0 | |
| 11 Ethanol | 46 | 2.010 | 2.010 | 0.000 | 96 | 20074 | 800.0 | 735.0 | |
| 12 Ethyl ether | 59 | 2.057 | 2.057 | 0.000 | 97 | 117068 | 20.0 | 21.7 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.063 | 2.063 | 0.000 | 94 | 102431 | 20.0 | 20.4 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.110 | 2.110 | 0.000 | 92 | 102353 | 20.0 | 19.4 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.263 | 2.263 | 0.000 | 97 | 112160 | 20.0 | 22.7 | |
| 16 Acrolein | 56 | 2.274 | 2.274 | 0.000 | 95 | 56306 | 40.0 | 42.0 | |
| 17 1,1-Dichloroethene | 96 | 2.304 | 2.304 | 0.000 | 97 | 116232 | 20.0 | 19.4 | |
| 18 Acetone | 43 | 2.445 | 2.445 | 0.000 | 88 | 192768 | 100.0 | 89.9 | |
| 19 Iodomethane | 142 | 2.498 | 2.498 | 0.000 | 96 | 179619 | 20.0 | 17.8 | |
| 20 Carbon disulfide | 76 | 2.527 | 2.527 | 0.000 | 99 | 412364 | 20.0 | 19.7 | |
| 21 Isopropyl alcohol | 45 | 2.568 | 2.568 | 0.000 | 98 | 65106 | 200.0 | 186.5 | |
| 22 3-Chloro-1-propene | 76 | 2.727 | 2.727 | 0.000 | 91 | 73075 | 20.0 | 19.3 | |
| 24 Cyclopentene | 67 | 2.744 | 2.744 | 0.000 | 94 | 292144 | 20.0 | 19.8 | |
| 23 Methyl acetate | 43 | 2.756 | 2.756 | 0.000 | 99 | 523790 | 100.0 | 118.8 | |
| 25 Acetonitrile | 41 | 2.827 | 2.827 | 0.000 | 96 | 162574 | 200.0 | 192.2 | |
| 27 Methylene Chloride | 84 | 2.885 | 2.885 | 0.000 | 92 | 146388 | 20.0 | 20.0 | |
| * 26 TBA-d9 (IS) | 65 | 2.897 | 2.897 | 0.000 | 93 | 426719 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.985 | 2.985 | 0.000 | 99 | 135869 | 200.0 | 223.5 | |
| 29 Methyl tert-butyl ether | 73 | 3.097 | 3.097 | 0.000 | 97 | 392342 | 20.0 | 21.2 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.120 | 3.120 | 0.000 | 96 | 132685 | 20.0 | 18.7 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.238 | 3.238 | 0.000 | 93 | 543478 | 200.0 | 204.4 | |
| 32 Hexane | 57 | 3.320 | 3.320 | 0.000 | 95 | 97234 | 20.0 | 20.1 | |
| 33 Isopropyl ether | 45 | 3.602 | 3.602 | 0.000 | 96 | 429502 | 20.0 | 22.9 | |
| 34 1,1-Dichloroethane | 63 | 3.637 | 3.637 | 0.000 | 99 | 250080 | 20.0 | 19.8 | |
| 35 Vinyl acetate | 43 | 3.667 | 3.667 | 0.000 | 100 | 554552 | 40.0 | 51.9 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.690 | 3.690 | 0.000 | 91 | 114210 | 20.0 | 20.1 | |
| 37 Tert-butyl ethyl ether | 59 | 3.996 | 3.996 | 0.000 | 88 | 429358 | 20.0 | 21.7 | |
| 39 2,2-Dichloropropane | 79 | 4.243 | 4.243 | 0.000 | 66 | 63156 | 20.0 | 20.2 | |
| * 38 2-Butanone-d5 | 46 | 4.243 | 4.243 | 0.000 | 99 | 515266 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.278 | 4.278 | 0.000 | 98 | 149782 | 20.0 | 18.0 | |
| 42 Ethyl acetate | 43 | 4.313 | 4.313 | 0.000 | 95 | 588213 | 40.0 | 42.3 | |
| 41 2-Butanone (MEK) | 72 | 4.313 | 4.313 | 0.000 | 95 | 78143 | 100.0 | 81.8 | |
| 43 Methyl acrylate | 55 | 4.378 | 4.378 | 0.000 | 100 | 135192 | 20.0 | 21.1 | |
| 44 Propionitrile | 54 | 4.478 | 4.478 | 0.000 | 97 | 199164 | 200.0 | 186.2 | |
| 45 Tetrahydrofuran | 72 | 4.554 | 4.554 | 0.000 | 66 | 39205 | 40.0 | 36.2 | |
| 46 Chlorobromomethane | 128 | 4.554 | 4.554 | 0.000 | 88 | 79442 | 20.0 | 19.2 | |
| 47 Methacrylonitrile | 67 | 4.601 | 4.601 | 0.000 | 92 | 641367 | 200.0 | 215.7 | |
| 48 Chloroform | 83 | 4.619 | 4.619 | 0.000 | 99 | 254106 | 20.0 | 21.6 | |
| 49 Cyclohexane | 56 | 4.765 | 4.765 | 0.000 | 91 | 165603 | 20.0 | 22.2 | |
| 50 1,1,1-Trichloroethane | 97 | 4.783 | 4.783 | 0.000 | 99 | 192882 | 20.0 | 20.2 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.813 | 4.813 | 0.000 | 97 | 271172 | 50.0 | 51.0 | |
| 52 Carbon tetrachloride | 117 | 4.918 | 4.918 | 0.000 | 98 | 164890 | 20.0 | 20.7 | |
| 53 1,1-Dichloropropene | 75 | 4.971 | 4.971 | 0.000 | 97 | 177835 | 20.0 | 19.8 | |
| 54 Isobutyl alcohol | 43 | 5.130 | 5.130 | 0.000 | 95 | 168299 | 500.0 | 559.7 | |
| 55 Isooctane | 57 | 5.165 | 5.165 | 0.000 | 98 | 211126 | 20.0 | 24.0 | |
| 56 Benzene | 78 | 5.206 | 5.206 | 0.000 | 96 | 576978 | 20.0 | 21.6 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.230 | 5.230 | 0.000 | 96 | 311108 | 50.0 | 52.6 | |
| 59 Tert-amyl methyl ether | 73 | 5.283 | 5.283 | 0.000 | 77 | 414676 | 20.0 | 21.0 | |
| 58 Isopropyl acetate | 43 | 5.283 | 5.283 | 0.000 | 90 | 400259 | 20.0 | 22.4 | |
| 60 1,2-Dichloroethane | 62 | 5.318 | 5.318 | 0.000 | 96 | 201405 | 20.0 | 21.2 | |
| 61 n-Heptane | 57 | 5.382 | 5.382 | 0.000 | 94 | 46017 | 20.0 | 20.2 | |
| * 62 Fluorobenzene | 96 | 5.547 | 5.547 | 0.000 | 98 | 989975 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.911 | 5.911 | 0.000 | 87 | 80584 | 500.0 | 482.4 | |
| 64 Trichloroethene | 95 | 5.952 | 5.952 | 0.000 | 98 | 139600 | 20.0 | 19.6 | |
| 66 Methylcyclohexane | 83 | 6.093 | 6.093 | 0.000 | 81 | 135785 | 20.0 | 22.4 | |
| 65 Ethyl acrylate | 55 | 6.105 | 6.105 | 0.000 | 98 | 287250 | 20.0 | 21.4 | |
| 67 1,2-Dichloropropane | 63 | 6.293 | 6.293 | 0.000 | 90 | 149000 | 20.0 | 20.8 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.364 | 6.364 | 0.000 | 93 | 66435 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.387 | 6.387 | 0.000 | 90 | 84837 | 40.0 | 38.1 | |
| 70 1,4-Dioxane | 88 | 6.417 | 6.417 | 0.000 | 78 | 27843 | 400.0 | 315.8 | |
| 72 Dibromomethane | 93 | 6.446 | 6.446 | 0.000 | 91 | 93873 | 20.0 | 20.1 | |
| 71 n-Propyl acetate | 43 | 6.452 | 6.452 | 0.000 | 100 | 217164 | 20.0 | 21.7 | |
| 73 Dichlorobromomethane | 83 | 6.610 | 6.610 | 0.000 | 98 | 199634 | 20.0 | 21.2 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.004 | 7.004 | 0.000 | 75 | 98288 | 20.0 | 19.1 | |
| 75 2-Nitropropane | 41 | 7.004 | 7.004 | 0.000 | 82 | 76028 | 40.0 | 45.5 | |
| 76 Epichlorohydrin | 57 | 7.122 | 7.122 | 0.000 | 100 | 313740 | 400.0 | 405.1 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.180 | 7.180 | 0.000 | 92 | 247211 | 20.0 | 20.5 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.368 | 7.368 | 0.000 | 97 | 678293 | 100.0 | 106.4 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.451 | 7.451 | 0.000 | 99 | 1066660 | 50.0 | 49.5 | |
| 80 Toluene | 91 | 7.539 | 7.539 | 0.000 | 93 | 594712 | 20.0 | 20.2 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.927 | 7.927 | 0.000 | 95 | 229794 | 20.0 | 21.1 | |
| 82 Ethyl methacrylate | 69 | 7.956 | 7.956 | 0.000 | 88 | 189766 | 20.0 | 20.4 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.167 | 8.167 | 0.000 | 95 | 120694 | 20.0 | 19.9 | |
| 84 Tetrachloroethene | 166 | 8.203 | 8.203 | 0.000 | 97 | 145810 | 20.0 | 19.4 | |
| 85 1,3-Dichloropropane | 76 | 8.402 | 8.402 | 0.000 | 94 | 232172 | 20.0 | 20.1 | |
| 86 2-Hexanone | 58 | 8.461 | 8.461 | 0.000 | 96 | 266431 | 100.0 | 89.3 | |
| 87 n-Butyl acetate | 43 | 8.579 | 8.579 | 0.000 | 98 | 225780 | 20.0 | 22.0 | |
| 88 Chlorodibromomethane | 129 | 8.643 | 8.643 | 0.000 | 98 | 169991 | 20.0 | 20.8 | |
| 89 Ethylene Dibromide | 107 | 8.820 | 8.820 | 0.000 | 100 | 143630 | 20.0 | 19.3 | |
| * 90 Chlorobenzene-d5 | 117 | 9.378 | 9.378 | 0.000 | 85 | 887972 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.413 | 9.413 | 0.000 | 95 | 429963 | 20.0 | 20.9 | |
| 92 Ethylbenzene | 106 | 9.501 | 9.501 | 0.000 | 98 | 201555 | 20.0 | 19.3 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.519 | 9.519 | 0.000 | 96 | 150387 | 20.0 | 19.8 | |
| 94 m-Xylene & p-Xylene | 106 | 9.636 | 9.636 | 0.000 | 96 | 242911 | 20.0 | 19.2 | |
| 95 n-Butyl acrylate | 73 | 10.024 | 10.024 | 0.000 | 97 | 119014 | 20.0 | 19.5 | |
| 96 o-Xylene | 106 | 10.048 | 10.048 | 0.000 | 91 | 254901 | 20.0 | 19.1 | |
| 97 Styrene | 104 | 10.077 | 10.077 | 0.000 | 95 | 457868 | 20.0 | 20.7 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.236 | 10.236 | 0.000 | 91 | 268284 | 20.0 | 21.5 | |
| 99 Bromoform | 173 | 10.277 | 10.277 | 0.000 | 96 | 114636 | 20.0 | 17.9 | |
| 100 Isopropylbenzene | 105 | 10.377 | 10.377 | 0.000 | 95 | 536981 | 20.0 | 21.4 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.553 | 10.553 | 0.000 | 95 | 363398 | 50.0 | 46.9 | |
| 102 Bromobenzene | 156 | 10.670 | 10.670 | 0.000 | 93 | 203065 | 20.0 | 19.6 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.694 | 10.694 | 0.000 | 97 | 195445 | 20.0 | 19.6 | |
| 104 N-Propylbenzene | 91 | 10.723 | 10.723 | 0.000 | 99 | 618023 | 20.0 | 20.2 | |
| 105 1,2,3-Trichloropropane | 110 | 10.741 | 10.741 | 0.000 | 95 | 52134 | 20.0 | 17.7 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.753 | 10.753 | 0.000 | 83 | 57902 | 20.0 | 20.4 | |
| 107 4-Ethyltoluene | 105 | 10.811 | 10.811 | 0.000 | 98 | 549020 | 20.0 | 21.5 | |
| 108 2-Chlorotoluene | 91 | 10.811 | 10.811 | 0.000 | 97 | 468673 | 20.0 | 20.5 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.864 | 10.864 | 0.000 | 94 | 472956 | 20.0 | 21.6 | |
| 110 4-Chlorotoluene | 91 | 10.905 | 10.905 | 0.000 | 97 | 459750 | 20.0 | 21.3 | |
| 111 Butyl Methacrylate | 87 | 10.935 | 10.935 | 0.000 | 92 | 220277 | 20.0 | 20.2 | |
| 112 tert-Butylbenzene | 119 | 11.099 | 11.099 | 0.000 | 95 | 358085 | 20.0 | 20.6 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.146 | 11.146 | 0.000 | 97 | 509166 | 20.0 | 21.6 | |
| 114 sec-Butylbenzene | 105 | 11.258 | 11.258 | 0.000 | 99 | 475309 | 20.0 | 21.0 | |
| 115 4-Isopropyltoluene | 119 | 11.358 | 11.358 | 0.000 | 98 | 450607 | 20.0 | 21.7 | |
| 116 1,3-Dichlorobenzene | 146 | 11.370 | 11.370 | 0.000 | 97 | 325136 | 20.0 | 19.6 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.422 | 11.422 | 0.000 | 93 | 529491 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.434 | 11.434 | 0.000 | 96 | 347407 | 20.0 | 20.3 | |
| 119 Benzyl chloride | 91 | 11.534 | 11.534 | 0.000 | 99 | 379116 | 20.0 | 21.2 | |
| 120 2,3-Dihydroindene | 117 | 11.581 | 11.581 | 0.000 | 95 | 631406 | 20.0 | 19.9 | |
| 121 p-Diethylbenzene | 119 | 11.610 | 11.610 | 0.000 | 97 | 280778 | 20.0 | 21.8 | |
| 122 n-Butylbenzene | 91 | 11.628 | 11.628 | 0.000 | 98 | 448104 | 20.0 | 21.3 | |
| 123 1,2-Dichlorobenzene | 146 | 11.687 | 11.687 | 0.000 | 98 | 343246 | 20.0 | 20.3 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.127 | 12.127 | 0.000 | 98 | 470320 | 20.0 | 23.0 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.227 | 12.227 | 0.000 | 92 | 35348 | 20.0 | 19.1 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.321 | 12.321 | 0.000 | 97 | 203697 | 20.0 | 20.3 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.780 | 12.780 | 0.000 | 93 | 182296 | 20.0 | 19.5 | |
| 128 Hexachlorobutadiene | 225 | 12.844 | 12.844 | 0.000 | 96 | 78040 | 20.0 | 18.6 | |
| 129 Naphthalene | 128 | 12.985 | 12.985 | 0.000 | 99 | 446072 | 20.0 | 20.0 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.173 | 13.173 | 0.000 | 95 | 151699 | 20.0 | 19.6 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 36.7 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 38.4 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 99.5 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GASES Li_00150 | Amount Added: | 20.00 | Units: uL | |
| 8260MIX1COMB_00035 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00050 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 26-Apr-2016 10:38:25 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39698.D

Injection Date: 25-Apr-2016 21:24:30 Instrument ID: CVOAMS8 Operator ID:

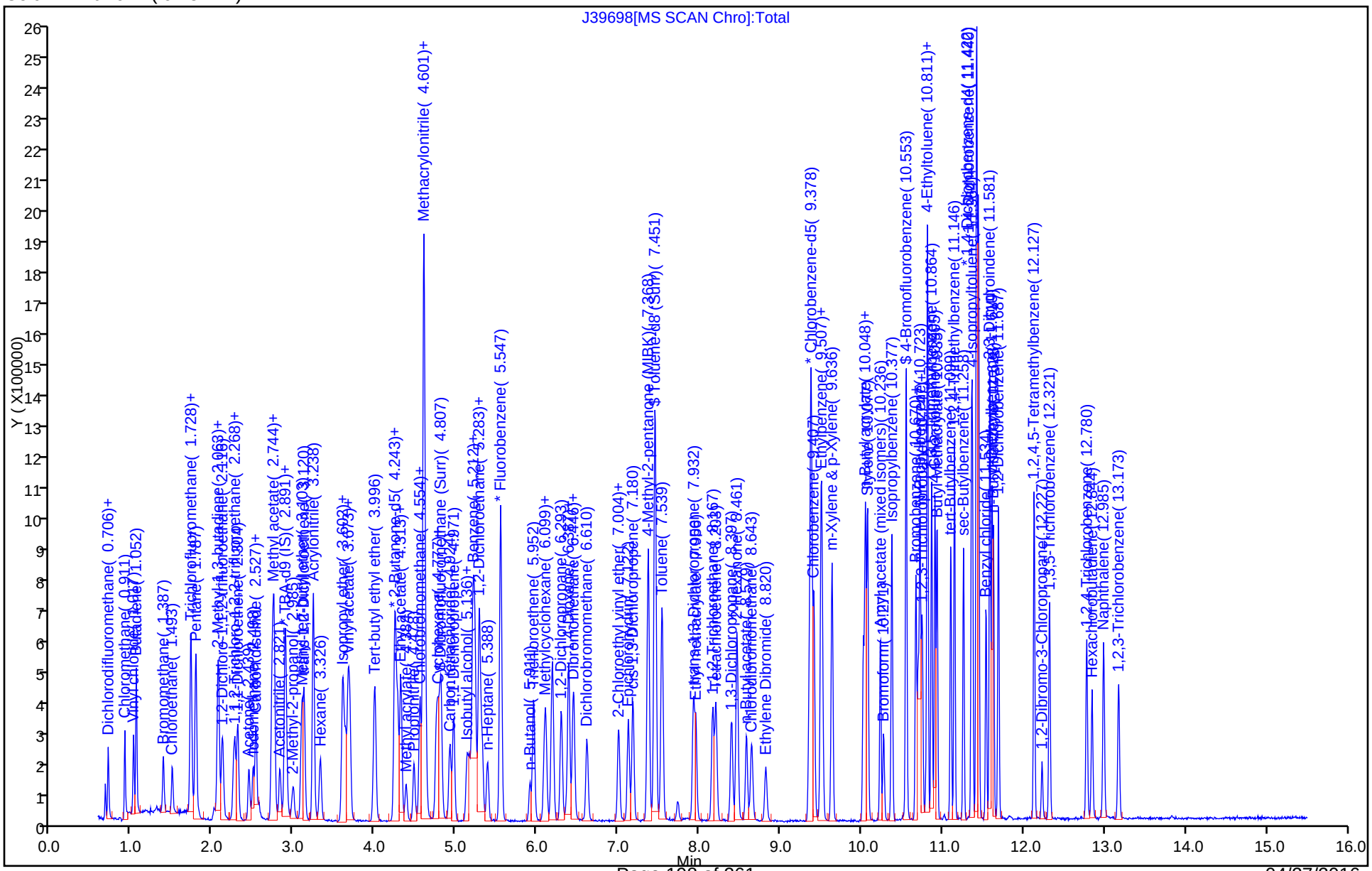
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364733/2 Calibration Date: 04/26/2016 09:28

Instrument ID: CVOAMS8 Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/29/2016 08:09

Lab File ID: J39724.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Chlorotrifluoroethene | Ave | 0.0368 | 0.0388 | | 21.1 | 20.0 | 5.6 | 20.0 |
| Dichlorodifluoromethane | Ave | 0.3218 | 0.3484 | 0.1000 | 21.6 | 20.0 | 8.2 | 20.0 |
| Chloromethane | Ave | 0.4174 | 0.4876 | 0.1000 | 23.4 | 20.0 | 16.8 | 20.0 |
| Vinyl chloride | Ave | 0.4181 | 0.4663 | 0.1000 | 22.3 | 20.0 | 11.5 | 20.0 |
| Butadiene | Ave | 0.3341 | 0.3824 | | 22.9 | 20.0 | 14.5 | 20.0 |
| Bromomethane | Ave | 0.2789 | 0.2836 | 0.1000 | 20.3 | 20.0 | 1.7 | 50.0 |
| Chloroethane | Ave | 0.2671 | 0.2734 | 0.1000 | 20.5 | 20.0 | 2.4 | 50.0 |
| Dichlorofluoromethane | Ave | 0.6434 | 0.7147 | | 22.2 | 20.0 | 11.1 | 20.0 |
| Trichlorofluoromethane | Ave | 0.4815 | 0.5338 | 0.1000 | 22.2 | 20.0 | 10.9 | 20.0 |
| Pentane | Ave | 1.971 | 1.947 | | 39.5 | 40.0 | -1.2 | 20.0 |
| Ethanol | Ave | 0.0640 | 0.0824 | | 1030 | 800 | 28.8 | 50.0 |
| Ethyl ether | Ave | 0.2730 | 0.2888 | | 21.2 | 20.0 | 5.8 | 20.0 |
| 2-Methyl-1,3-butadiene | Ave | 0.2541 | 0.2930 | | 23.1 | 20.0 | 15.3 | 20.0 |
| 1,2-Dichloro-1,1,2-trifluoro ethane | Ave | 0.2659 | 0.2814 | | 21.2 | 20.0 | 5.8 | 20.0 |
| Freon TF | Ave | 0.2497 | 0.2926 | 0.1000 | 23.4 | 20.0 | 17.2 | 20.0 |
| Acrolein | Ave | 3.138 | 3.016 | | 38.4 | 40.0 | -3.9 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.3020 | 0.3138 | 0.1000 | 20.8 | 20.0 | 3.9 | 20.0 |
| Acetone | Lin2 | | 1.016 | 0.0500 | 97.9 | 100 | -2.1 | 50.0 |
| Iodomethane | Ave | 0.5086 | 0.5053 | | 19.9 | 20.0 | -0.6 | 20.0 |
| Carbon disulfide | Ave | 1.056 | 1.153 | 0.1000 | 21.8 | 20.0 | 9.1 | 50.0 |
| Isopropyl alcohol | Ave | 0.8179 | 0.9706 | | 237 | 200 | 18.7 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1911 | 0.1988 | | 20.8 | 20.0 | 4.0 | 20.0 |
| Cyclopentene | Ave | 0.7434 | 0.8278 | | 22.3 | 20.0 | 11.4 | 20.0 |
| Methyl acetate | Ave | 0.2227 | 0.2712 | 0.1000 | 122 | 100 | 21.8* | 20.0 |
| Acetonitrile | Ave | 1.982 | 2.263 | | 228 | 200 | 14.1 | 20.0 |
| Methylene Chloride | Ave | 0.3689 | 0.3735 | 0.1000 | 20.3 | 20.0 | 1.3 | 20.0 |
| 2-Methyl-2-propanol | Lin2 | | 1.642 | | 231 | 200 | 15.4 | 50.0 |
| MTBE | Ave | 0.9333 | 1.013 | 0.1000 | 21.7 | 20.0 | 8.5 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.3588 | 0.3571 | 0.1000 | 19.9 | 20.0 | -0.5 | 20.0 |
| Acrylonitrile | Ave | 6.230 | 6.867 | | 220 | 200 | 10.2 | 20.0 |
| Hexane | Lin2 | | 0.2496 | | 20.4 | 20.0 | 1.9 | 20.0 |
| Isopropyl ether | Ave | 0.9481 | 1.141 | | 24.1 | 20.0 | 20.3* | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6371 | 0.7000 | 0.2000 | 22.0 | 20.0 | 9.9 | 20.0 |
| Vinyl acetate | Ave | 0.5395 | 0.4721 | | 35.0 | 40.0 | -12.5 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.2863 | 0.3153 | | 22.0 | 20.0 | 10.2 | 20.0 |
| Tert-butyl ethyl ether | Ave | 0.997 | 1.082 | | 21.7 | 20.0 | 8.5 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.1583 | 0.1435 | | 18.1 | 20.0 | -9.3 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.4199 | 0.3965 | 0.1000 | 18.9 | 20.0 | -5.6 | 20.0 |
| 2-Butanone | Ave | 0.4634 | 0.4106 | 0.0500 | 88.6 | 100 | -11.4 | 50.0 |
| Ethyl acetate | Ave | 6.749 | 7.226 | | 42.8 | 40.0 | 7.1 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364733/2 Calibration Date: 04/26/2016 09:28

Instrument ID: CVOAMS8 Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/29/2016 08:09

Lab File ID: J39724.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acrylate | Ave | 0.3243 | 0.3334 | | 20.6 | 20.0 | 2.8 | 20.0 |
| Propionitrile | Ave | 2.507 | 2.682 | | 214 | 200 | 7.0 | 20.0 |
| Bromochloromethane | Ave | 0.2091 | 0.2116 | | 20.2 | 20.0 | 1.2 | 20.0 |
| Tetrahydrofuran | Ave | 0.5252 | 0.4601 | | 35.0 | 40.0 | -12.4 | 20.0 |
| Methacrylonitrile | Ave | 0.1502 | 0.1658 | | 221 | 200 | 10.4 | 20.0 |
| Chloroform | Ave | 0.5952 | 0.6594 | 0.2000 | 22.2 | 20.0 | 10.8 | 20.0 |
| Cyclohexane | Ave | 0.3769 | 0.4317 | 0.1000 | 22.9 | 20.0 | 14.5 | 50.0 |
| 1,1,1-Trichloroethane | Ave | 0.4834 | 0.5210 | 0.1000 | 21.6 | 20.0 | 7.8 | 20.0 |
| Carbon tetrachloride | Ave | 0.4014 | 0.4394 | 0.1000 | 21.9 | 20.0 | 9.5 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4545 | 0.4841 | | 21.3 | 20.0 | 6.5 | 20.0 |
| Isobutyl alcohol | Ave | 0.7047 | 0.7785 | | 552 | 500 | 10.5 | 50.0 |
| Isooctane | Ave | 0.4442 | 0.5899 | | 26.6 | 20.0 | 32.8* | 20.0 |
| Benzene | Ave | 1.504 | 1.621 | 0.5000 | 21.6 | 20.0 | 7.8 | 20.0 |
| Isopropyl acetate | Ave | 0.9044 | 1.003 | | 22.2 | 20.0 | 10.9 | 20.0 |
| Tert-amyl methyl ether | Ave | 0.997 | 1.045 | | 21.0 | 20.0 | 4.9 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4796 | 0.5002 | 0.1000 | 20.9 | 20.0 | 4.3 | 20.0 |
| n-Heptane | Lin2 | | 0.1224 | | 21.2 | 20.0 | 6.2 | 20.0 |
| n-Butanol | Ave | 0.3915 | 0.4188 | | 535 | 500 | 7.0 | 50.0 |
| Trichloroethene | Ave | 0.3600 | 0.3962 | 0.2000 | 22.0 | 20.0 | 10.1 | 20.0 |
| Methylcyclohexane | Ave | 0.3060 | 0.3326 | 0.1000 | 21.7 | 20.0 | 8.7 | 50.0 |
| Ethyl acrylate | Ave | 0.6784 | 0.7342 | | 21.6 | 20.0 | 8.2 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3626 | 0.3695 | 0.1000 | 20.4 | 20.0 | 1.9 | 20.0 |
| Methyl methacrylate | Ave | 0.1125 | 0.1094 | | 38.9 | 40.0 | -2.8 | 20.0 |
| 1,4-Dioxane | Ave | 1.327 | 1.470 | | 443 | 400 | 10.7 | 50.0 |
| Dibromomethane | Ave | 0.2365 | 0.2377 | | 20.1 | 20.0 | 0.5 | 20.0 |
| n-Propyl acetate | Ave | 0.5049 | 0.5654 | | 22.4 | 20.0 | 12.0 | 20.0 |
| Bromodichloromethane | Ave | 0.4749 | 0.5000 | 0.2000 | 21.1 | 20.0 | 5.3 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.2600 | 0.2603 | | 20.0 | 20.0 | 0.1 | 20.0 |
| 2-Nitropropane | Ave | 0.0843 | 0.0947 | | 44.9 | 40.0 | 12.3 | 20.0 |
| Epichlorohydrin | Ave | 0.3758 | 0.3678 | | 392 | 400 | -2.1 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 0.6799 | 0.6843 | 0.2000 | 20.1 | 20.0 | 0.7 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 3.093 | 3.340 | 0.0500 | 108 | 100 | 8.0 | 50.0 |
| Toluene | Ave | 1.661 | 1.736 | 0.4000 | 20.9 | 20.0 | 4.5 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.6140 | 0.6167 | 0.1000 | 20.1 | 20.0 | 0.4 | 50.0 |
| Ethyl methacrylate | Ave | 0.4691 | 0.4858 | | 20.7 | 20.0 | 3.5 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.3412 | 0.3395 | 0.1000 | 19.9 | 20.0 | -0.5 | 20.0 |
| Tetrachloroethene | Ave | 0.4235 | 0.4416 | 0.2000 | 20.9 | 20.0 | 4.3 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6496 | 0.6752 | | 20.8 | 20.0 | 3.9 | 20.0 |
| 2-Hexanone | Ave | 1.447 | 1.335 | 0.0500 | 92.3 | 100 | -7.7 | 50.0 |
| n-Butyl acetate | Ave | 0.5781 | 0.6438 | | 22.3 | 20.0 | 11.4 | 20.0 |
| Dibromochloromethane | Ave | 0.4593 | 0.4637 | 0.1000 | 20.2 | 20.0 | 1.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364733/2  Calibration Date: 04/26/2016 09:28

Instrument ID: CVOAMS8  Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624  ID: 0.25(mm)  Calib End Date: 03/29/2016 08:09

Lab File ID: J39724.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | Ave | 0.4192 | 0.4262 | 0.1000 | 20.3 | 20.0 | 1.7 | 20.0 |
| Chlorobenzene | Ave | 1.157 | 1.197 | 0.5000 | 20.7 | 20.0 | 3.5 | 20.0 |
| Ethylbenzene | Ave | 0.5871 | 0.5692 | 0.1000 | 19.4 | 20.0 | -3.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.4269 | 0.4285 | | 20.1 | 20.0 | 0.4 | 20.0 |
| m&p-Xylene | Ave | 0.7117 | 0.7575 | 0.1000 | 21.3 | 20.0 | 6.4 | 20.0 |
| n-Butyl acrylate | Ave | 0.3433 | 0.3373 | | 19.7 | 20.0 | -1.7 | 20.0 |
| o-Xylene | Ave | 0.7495 | 0.7622 | 0.3000 | 20.3 | 20.0 | 1.7 | 20.0 |
| Styrene | Ave | 1.244 | 1.329 | 0.3000 | 21.4 | 20.0 | 6.8 | 20.0 |
| Amyl acetate (mixed isomers) | Ave | 1.180 | 1.276 | | 21.6 | 20.0 | 8.1 | 20.0 |
| Bromoform | Ave | 0.3604 | 0.3290 | 0.1000 | 18.3 | 20.0 | -8.7 | 20.0 |
| Isopropylbenzene | Ave | 1.414 | 1.601 | 0.1000 | 22.6 | 20.0 | 13.2 | 20.0 |
| Bromobenzene | Ave | 0.9787 | 0.9601 | | 19.6 | 20.0 | -1.9 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9413 | 0.8984 | 0.3000 | 19.1 | 20.0 | -4.6 | 20.0 |
| N-Propylbenzene | Ave | 2.886 | 3.032 | | 21.0 | 20.0 | 5.0 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2781 | 0.2726 | | 19.6 | 20.0 | -2.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2677 | 0.2771 | | 20.7 | 20.0 | 3.5 | 20.0 |
| 2-Chlorotoluene | Ave | 2.158 | 2.360 | | 21.9 | 20.0 | 9.4 | 20.0 |
| 4-Ethyltoluene | Ave | 2.406 | 2.730 | | 22.7 | 20.0 | 13.5 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.067 | 2.263 | | 21.9 | 20.0 | 9.5 | 20.0 |
| 4-Chlorotoluene | Ave | 2.039 | 2.225 | | 21.8 | 20.0 | 9.1 | 20.0 |
| Butyl Methacrylate | Ave | 1.029 | 1.063 | | 20.7 | 20.0 | 3.3 | 20.0 |
| tert-Butylbenzene | Ave | 1.639 | 1.797 | | 21.9 | 20.0 | 9.6 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.226 | 2.487 | | 22.3 | 20.0 | 11.7 | 20.0 |
| sec-Butylbenzene | Ave | 2.137 | 2.408 | | 22.5 | 20.0 | 12.6 | 20.0 |
| 4-Isopropyltoluene | Ave | 1.963 | 2.214 | | 22.6 | 20.0 | 12.8 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.564 | 1.580 | 0.6000 | 20.2 | 20.0 | 1.0 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.614 | 1.661 | 0.5000 | 20.6 | 20.0 | 2.9 | 20.0 |
| Benzyl chloride | Ave | 1.691 | 1.349 | | 16.0 | 20.0 | -20.2 | 50.0 |
| Indan | Ave | 3.001 | 3.074 | | 20.5 | 20.0 | 2.5 | 20.0 |
| p-Diethylbenzene | Ave | 1.218 | 1.374 | | 22.6 | 20.0 | 12.8 | 20.0 |
| n-Butylbenzene | Ave | 1.983 | 2.289 | | 23.1 | 20.0 | 15.4 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.595 | 1.659 | 0.4000 | 20.8 | 20.0 | 4.0 | 20.0 |
| 1,2,4,5-Tetramethylbenzene | Ave | 1.932 | 2.242 | | 23.2 | 20.0 | 16.1 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1744 | 0.1793 | 0.0500 | 20.6 | 20.0 | 2.8 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.9494 | 1.000 | | 21.1 | 20.0 | 5.3 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.8847 | 0.9397 | 0.2000 | 21.2 | 20.0 | 6.2 | 20.0 |
| Hexachlorobutadiene | Ave | 0.3968 | 0.4411 | | 22.2 | 20.0 | 11.2 | 20.0 |
| Naphthalene | Ave | 2.106 | 2.339 | | 22.2 | 20.0 | 11.1 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.7312 | 0.7918 | | 21.7 | 20.0 | 8.3 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2684 | 0.2796 | | 52.1 | 50.0 | 4.2 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2986 | 0.3345 | | 56.0 | 50.0 | 12.0 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Lab Sample ID: CCVIS 460-364733/2 Calibration Date: 04/26/2016 09:28

Instrument ID: CVOAMS8 Calib Start Date: 03/29/2016 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/29/2016 08:09

Lab File ID: J39724.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.214 | 1.244 | | 51.2 | 50.0 | 2.5 | 20.0 |
| Bromofluorobenzene | Ave | 0.4361 | 0.4188 | | 48.0 | 50.0 | -4.0 | 20.0 |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39724.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Apr-2016 09:28:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0040302-002
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 12:23:55 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 12:23:55

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.676 | 0.676 | 0.000 | 92 | 15212 | 20.0 | 21.1 | M |
| 2 Dichlorodifluoromethane | 85 | 0.711 | 0.711 | 0.000 | 99 | 136504 | 20.0 | 21.6 | |
| 3 Chloromethane | 50 | 0.917 | 0.917 | 0.000 | 100 | 191061 | 20.0 | 23.4 | |
| 4 Vinyl chloride | 62 | 1.023 | 1.023 | 0.000 | 99 | 182705 | 20.0 | 22.3 | |
| 5 Butadiene | 54 | 1.058 | 1.058 | 0.000 | 95 | 149859 | 20.0 | 22.9 | |
| 6 Bromomethane | 94 | 1.393 | 1.393 | 0.000 | 97 | 111132 | 20.0 | 20.3 | |
| 7 Chloroethane | 64 | 1.505 | 1.505 | 0.000 | 98 | 107141 | 20.0 | 20.5 | |
| 8 Dichlorofluoromethane | 67 | 1.734 | 1.734 | 0.000 | 96 | 280042 | 20.0 | 22.2 | |
| 9 Trichlorofluoromethane | 101 | 1.734 | 1.734 | 0.000 | 78 | 209183 | 20.0 | 22.2 | |
| 10 Pentane | 72 | 1.798 | 1.798 | 0.000 | 96 | 32121 | 40.0 | 39.5 | |
| 11 Ethanol | 46 | 2.022 | 2.022 | 0.000 | 98 | 27200 | 800.0 | 1030.1 | |
| 12 Ethyl ether | 59 | 2.063 | 2.063 | 0.000 | 96 | 113161 | 20.0 | 21.2 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.075 | 2.075 | 0.000 | 96 | 114822 | 20.0 | 23.1 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.122 | 2.122 | 0.000 | 92 | 110251 | 20.0 | 21.2 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.263 | 2.263 | 0.000 | 97 | 114660 | 20.0 | 23.4 | |
| 16 Acrolein | 56 | 2.286 | 2.286 | 0.000 | 93 | 49776 | 40.0 | 38.4 | |
| 17 1,1-Dichloroethene | 96 | 2.315 | 2.315 | 0.000 | 97 | 122952 | 20.0 | 20.8 | |
| 18 Acetone | 43 | 2.451 | 2.451 | 0.000 | 87 | 210417 | 100.0 | 97.9 | |
| 19 Iodomethane | 142 | 2.503 | 2.503 | 0.000 | 97 | 198005 | 20.0 | 19.9 | |
| 20 Carbon disulfide | 76 | 2.539 | 2.539 | 0.000 | 99 | 451684 | 20.0 | 21.8 | |
| 21 Isopropyl alcohol | 45 | 2.568 | 2.568 | 0.000 | 99 | 80081 | 200.0 | 237.3 | |
| 22 3-Chloro-1-propene | 76 | 2.733 | 2.733 | 0.000 | 90 | 77908 | 20.0 | 20.8 | |
| 24 Cyclopentene | 67 | 2.750 | 2.750 | 0.000 | 93 | 324379 | 20.0 | 22.3 | |
| 23 Methyl acetate | 43 | 2.762 | 2.762 | 0.000 | 99 | 531278 | 100.0 | 121.8 | |
| 25 Acetonitrile | 41 | 2.832 | 2.832 | 0.000 | 98 | 186710 | 200.0 | 228.3 | |
| 27 Methylene Chloride | 84 | 2.897 | 2.897 | 0.000 | 91 | 146351 | 20.0 | 20.3 | |
| * 26 TBA-d9 (IS) | 65 | 2.903 | 2.903 | 0.000 | 94 | 412539 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.991 | 2.991 | 0.000 | 98 | 135448 | 200.0 | 230.7 | |
| 29 Methyl tert-butyl ether | 73 | 3.109 | 3.109 | 0.000 | 97 | 396805 | 20.0 | 21.7 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.132 | 3.132 | 0.000 | 95 | 139942 | 20.0 | 19.9 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 31 Acrylonitrile | 53 | 3.250 | 3.250 | 0.000 | 94 | 566586 | 200.0 | 220.5 | |
| 32 Hexane | 57 | 3.338 | 3.338 | 0.000 | 95 | 97787 | 20.0 | 20.4 | |
| 33 Isopropyl ether | 45 | 3.608 | 3.608 | 0.000 | 96 | 446953 | 20.0 | 24.1 | |
| 34 1,1-Dichloroethane | 63 | 3.643 | 3.643 | 0.000 | 99 | 274290 | 20.0 | 22.0 | |
| 35 Vinyl acetate | 43 | 3.679 | 3.679 | 0.000 | 100 | 370000 | 40.0 | 35.0 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.702 | 3.702 | 0.000 | 92 | 123563 | 20.0 | 22.0 | |
| 37 Tert-butyl ethyl ether | 59 | 4.002 | 4.002 | 0.000 | 90 | 423967 | 20.0 | 21.7 | |
| 39 2,2-Dichloropropane | 79 | 4.254 | 4.254 | 0.000 | 63 | 56244 | 20.0 | 18.1 | |
| * 38 2-Butanone-d5 | 46 | 4.254 | 4.254 | 0.000 | 100 | 517993 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.290 | 4.290 | 0.000 | 97 | 155351 | 20.0 | 18.9 | |
| 41 2-Butanone (MEK) | 72 | 4.325 | 4.325 | 0.000 | 97 | 85077 | 100.0 | 88.6 | |
| 43 Methyl acrylate | 55 | 4.389 | 4.389 | 0.000 | 99 | 130656 | 20.0 | 20.6 | |
| 42 Ethyl acetate | 43 | 4.325 | 4.325 | 0.000 | 94 | 598862 | 40.0 | 42.8 | |
| 44 Propionitrile | 54 | 4.489 | 4.489 | 0.000 | 99 | 221324 | 200.0 | 214.0 | |
| 45 Tetrahydrofuran | 72 | 4.566 | 4.566 | 0.000 | 67 | 38136 | 40.0 | 35.0 | |
| 46 Chlorobromomethane | 128 | 4.560 | 4.560 | 0.000 | 83 | 82902 | 20.0 | 20.2 | |
| 47 Methacrylonitrile | 67 | 4.613 | 4.613 | 0.000 | 92 | 649856 | 200.0 | 220.9 | |
| 48 Chloroform | 83 | 4.630 | 4.630 | 0.000 | 99 | 258397 | 20.0 | 22.2 | |
| 49 Cyclohexane | 56 | 4.771 | 4.771 | 0.000 | 92 | 169141 | 20.0 | 22.9 | |
| 50 1,1,1-Trichloroethane | 97 | 4.801 | 4.801 | 0.000 | 99 | 204135 | 20.0 | 21.6 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.824 | 4.824 | 0.000 | 97 | 273939 | 50.0 | 52.1 | |
| 52 Carbon tetrachloride | 117 | 4.936 | 4.936 | 0.000 | 97 | 172158 | 20.0 | 21.9 | |
| 53 1,1-Dichloropropene | 75 | 4.977 | 4.977 | 0.000 | 97 | 189704 | 20.0 | 21.3 | |
| 54 Isobutyl alcohol | 43 | 5.147 | 5.147 | 0.000 | 97 | 160578 | 500.0 | 552.4 | |
| 55 Isooctane | 57 | 5.171 | 5.171 | 0.000 | 88 | 231168 | 20.0 | 26.6 | |
| 56 Benzene | 78 | 5.218 | 5.218 | 0.000 | 97 | 576031 | 20.0 | 21.6 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.241 | 5.241 | 0.000 | 97 | 327670 | 50.0 | 56.0 | |
| 59 Tert-amyl methyl ether | 73 | 5.294 | 5.294 | 0.000 | 77 | 409660 | 20.0 | 21.0 | |
| 58 Isopropyl acetate | 43 | 5.294 | 5.294 | 0.000 | 93 | 392947 | 20.0 | 22.2 | |
| 60 1,2-Dichloroethane | 62 | 5.335 | 5.335 | 0.000 | 96 | 196018 | 20.0 | 20.9 | |
| 61 n-Heptane | 57 | 5.400 | 5.400 | 0.000 | 88 | 47973 | 20.0 | 21.2 | |
| * 62 Fluorobenzene | 96 | 5.559 | 5.559 | 0.000 | 98 | 979618 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.923 | 5.923 | 0.000 | 91 | 86394 | 500.0 | 534.9 | |
| 64 Trichloroethene | 95 | 5.964 | 5.964 | 0.000 | 98 | 155262 | 20.0 | 22.0 | |
| 66 Methylcyclohexane | 83 | 6.105 | 6.105 | 0.000 | 85 | 130310 | 20.0 | 21.7 | |
| 65 Ethyl acrylate | 55 | 6.117 | 6.117 | 0.000 | 98 | 287698 | 20.0 | 21.6 | |
| 67 1,2-Dichloropropane | 63 | 6.311 | 6.311 | 0.000 | 90 | 144782 | 20.0 | 20.4 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.369 | 6.369 | 0.000 | 89 | 61442 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.399 | 6.399 | 0.000 | 91 | 85696 | 40.0 | 38.9 | |
| 70 1,4-Dioxane | 88 | 6.446 | 6.446 | 0.000 | 38 | 36121 | 400.0 | 442.9 | |
| 72 Dibromomethane | 93 | 6.452 | 6.452 | 0.000 | 94 | 93129 | 20.0 | 20.1 | |
| 71 n-Propyl acetate | 43 | 6.458 | 6.458 | 0.000 | 99 | 221546 | 20.0 | 22.4 | |
| 73 Dichlorobromomethane | 83 | 6.622 | 6.622 | 0.000 | 99 | 195931 | 20.0 | 21.1 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.016 | 7.016 | 0.000 | 78 | 101985 | 20.0 | 20.0 | |
| 75 2-Nitropropane | 41 | 7.022 | 7.022 | 0.000 | 81 | 74221 | 40.0 | 44.9 | |
| 76 Epichlorohydrin | 57 | 7.133 | 7.133 | 0.000 | 99 | 304852 | 400.0 | 391.5 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.192 | 7.192 | 0.000 | 92 | 243220 | 20.0 | 20.1 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.380 | 7.380 | 0.000 | 96 | 692134 | 100.0 | 108.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.468 | 7.468 | 0.000 | 100 | 1105445 | 50.0 | 51.2 | |
| 80 Toluene | 91 | 7.550 | 7.550 | 0.000 | 93 | 616917 | 20.0 | 20.9 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.938 | 7.938 | 0.000 | 97 | 219179 | 20.0 | 20.1 | |
| 82 Ethyl methacrylate | 69 | 7.968 | 7.968 | 0.000 | 90 | 190339 | 20.0 | 20.7 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | 83 | 8.179 | 8.179 | 0.000 | 96 | 120667 | 20.0 | 19.9 | |
| 84 Tetrachloroethene | 166 | 8.214 | 8.214 | 0.000 | 94 | 156974 | 20.0 | 20.9 | |
| 85 1,3-Dichloropropane | 76 | 8.408 | 8.408 | 0.000 | 94 | 239994 | 20.0 | 20.8 | |
| 86 2-Hexanone | 58 | 8.479 | 8.479 | 0.000 | 96 | 276698 | 100.0 | 92.3 | |
| 87 n-Butyl acetate | 43 | 8.596 | 8.596 | 0.000 | 98 | 228818 | 20.0 | 22.3 | |
| 88 Chlorodibromomethane | 129 | 8.655 | 8.655 | 0.000 | 98 | 164809 | 20.0 | 20.2 | |
| 89 Ethylene Dibromide | 107 | 8.831 | 8.831 | 0.000 | 98 | 151485 | 20.0 | 20.3 | |
| * 90 Chlorobenzene-d5 | 117 | 9.389 | 9.389 | 0.000 | 86 | 888585 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.425 | 9.425 | 0.000 | 96 | 425548 | 20.0 | 20.7 | |
| 92 Ethylbenzene | 106 | 9.513 | 9.513 | 0.000 | 99 | 202321 | 20.0 | 19.4 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.530 | 9.530 | 0.000 | 96 | 152318 | 20.0 | 20.1 | |
| 94 m-Xylene & p-Xylene | 106 | 9.648 | 9.648 | 0.000 | 96 | 269230 | 20.0 | 21.3 | |
| 95 n-Butyl acrylate | 73 | 10.030 | 10.030 | 0.000 | 97 | 119882 | 20.0 | 19.7 | |
| 96 o-Xylene | 106 | 10.059 | 10.059 | 0.000 | 95 | 270907 | 20.0 | 20.3 | |
| 97 Styrene | 104 | 10.083 | 10.083 | 0.000 | 97 | 472428 | 20.0 | 21.4 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.241 | 10.241 | 0.000 | 92 | 266100 | 20.0 | 21.6 | |
| 99 Bromoform | 173 | 10.283 | 10.283 | 0.000 | 98 | 116937 | 20.0 | 18.3 | |
| 100 Isopropylbenzene | 105 | 10.382 | 10.382 | 0.000 | 96 | 569191 | 20.0 | 22.6 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.559 | 10.559 | 0.000 | 95 | 372118 | 50.0 | 48.0 | |
| 102 Bromobenzene | 156 | 10.682 | 10.682 | 0.000 | 92 | 200214 | 20.0 | 19.6 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.706 | 10.706 | 0.000 | 99 | 187359 | 20.0 | 19.1 | |
| 104 N-Propylbenzene | 91 | 10.729 | 10.729 | 0.000 | 99 | 632271 | 20.0 | 21.0 | |
| 105 1,2,3-Trichloropropane | 110 | 10.753 | 10.753 | 0.000 | 95 | 56852 | 20.0 | 19.6 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.764 | 10.764 | 0.000 | 84 | 57791 | 20.0 | 20.7 | |
| 107 4-Ethyltoluene | 105 | 10.823 | 10.823 | 0.000 | 88 | 569246 | 20.0 | 22.7 | |
| 108 2-Chlorotoluene | 91 | 10.823 | 10.823 | 0.000 | 95 | 492196 | 20.0 | 21.9 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.870 | 10.870 | 0.000 | 95 | 471998 | 20.0 | 21.9 | |
| 110 4-Chlorotoluene | 91 | 10.917 | 10.917 | 0.000 | 96 | 464000 | 20.0 | 21.8 | |
| 111 Butyl Methacrylate | 87 | 10.941 | 10.941 | 0.000 | 92 | 221682 | 20.0 | 20.7 | |
| 112 tert-Butylbenzene | 119 | 11.111 | 11.111 | 0.000 | 95 | 374812 | 20.0 | 21.9 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.152 | 11.152 | 0.000 | 97 | 518682 | 20.0 | 22.3 | |
| 114 sec-Butylbenzene | 105 | 11.270 | 11.270 | 0.000 | 98 | 502153 | 20.0 | 22.5 | |
| 115 4-Isopropyltoluene | 119 | 11.364 | 11.364 | 0.000 | 98 | 461772 | 20.0 | 22.6 | |
| 116 1,3-Dichlorobenzene | 146 | 11.375 | 11.375 | 0.000 | 96 | 329476 | 20.0 | 20.2 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.428 | 11.428 | 0.000 | 94 | 521363 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.446 | 11.446 | 0.000 | 97 | 346360 | 20.0 | 20.6 | |
| 119 Benzyl chloride | 91 | 11.546 | 11.546 | 0.000 | 99 | 281338 | 20.0 | 16.0 | |
| 120 2,3-Dihydroindene | 117 | 11.593 | 11.593 | 0.000 | 95 | 641162 | 20.0 | 20.5 | |
| 121 p-Diethylbenzene | 119 | 11.616 | 11.616 | 0.000 | 94 | 286439 | 20.0 | 22.6 | |
| 122 n-Butylbenzene | 91 | 11.640 | 11.640 | 0.000 | 98 | 477375 | 20.0 | 23.1 | |
| 123 1,2-Dichlorobenzene | 146 | 11.699 | 11.699 | 0.000 | 96 | 346015 | 20.0 | 20.8 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.139 | 12.139 | 0.000 | 98 | 467602 | 20.0 | 23.2 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.239 | 12.239 | 0.000 | 94 | 37387 | 20.0 | 20.6 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.327 | 12.327 | 0.000 | 97 | 208535 | 20.0 | 21.1 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.791 | 12.791 | 0.000 | 92 | 195972 | 20.0 | 21.2 | |
| 128 Hexachlorobutadiene | 225 | 12.856 | 12.856 | 0.000 | 96 | 91998 | 20.0 | 22.2 | |
| 129 Naphthalene | 128 | 12.997 | 12.997 | 0.000 | 99 | 487715 | 20.0 | 22.2 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.185 | 13.185 | 0.000 | 95 | 165129 | 20.0 | 21.7 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 38.8 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 41.6 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 103.5 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | | |
|---|---|---|---|---|
| GASES Li_00150 | Amount Added: | 20.00 | Units: uL | |
| 8260MIX1COMB_00035 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00050 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 26-Apr-2016 12:23:57 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39724.D

Injection Date: 26-Apr-2016 09:28:30 Instrument ID: CVOAMS8 Operator ID:

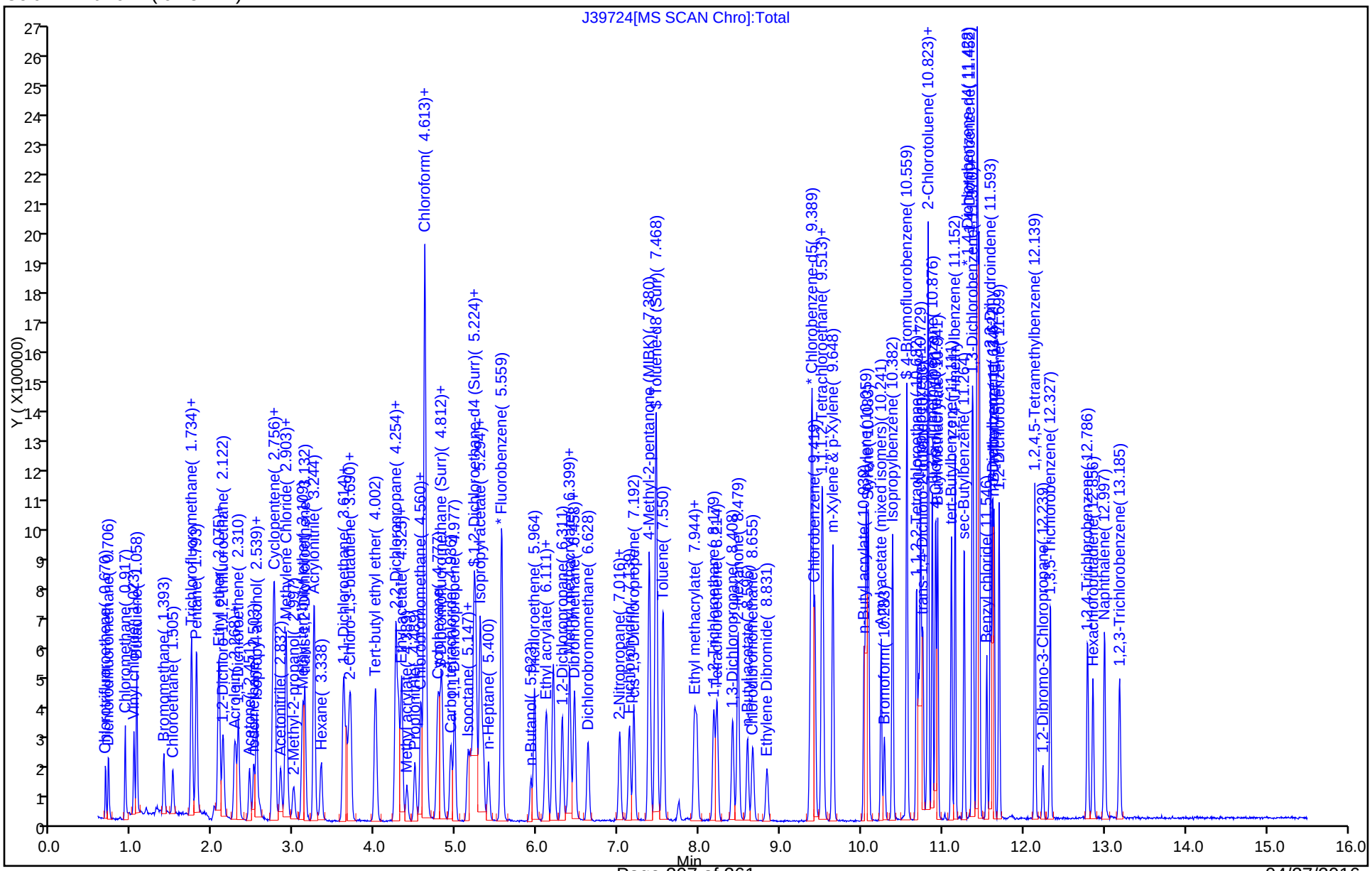
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38328.D | | | | |
| Lims ID: | BFB | | | | |
| Client ID: | | | | | |
| Sample Type: | BFB | | | | |
| Inject. Date: | 29-Mar-2016 02:50:30 | ALS Bottle#: | 99 | Worklist Smp#: | 1 |
| Injection Vol: | 5.0 mL | Dil. Factor: | 1.0000 | | |
| Sample Info: | BFB | | | | |
| Misc. Info.: | 460-0039111-001 | | | | |
| Operator ID: | | Instrument ID: | CVOAMS8 | | |
| Method: | \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\8260_W8.m | | | | |
| Limit Group: | VOA - 8260C Water and Solid | | | | |
| Last Update: | 30-Mar-2016 16:05:56 | Calib Date: | 29-Mar-2016 08:09:30 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D | | | | |
| Column 1 : | Rtx-624 ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK004 | | | | |
| First Level Reviewer: nimerd | | Date: | 29-Mar-2016 10:53:18 | | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| $ 135 BFB | 95 | 4.300 | 4.300 | 0.000 | 93 | 36606 | NR | NR | |

## QC Flag Legend

Processing Flags

NR - Missing Quant Standard

## Reagents:

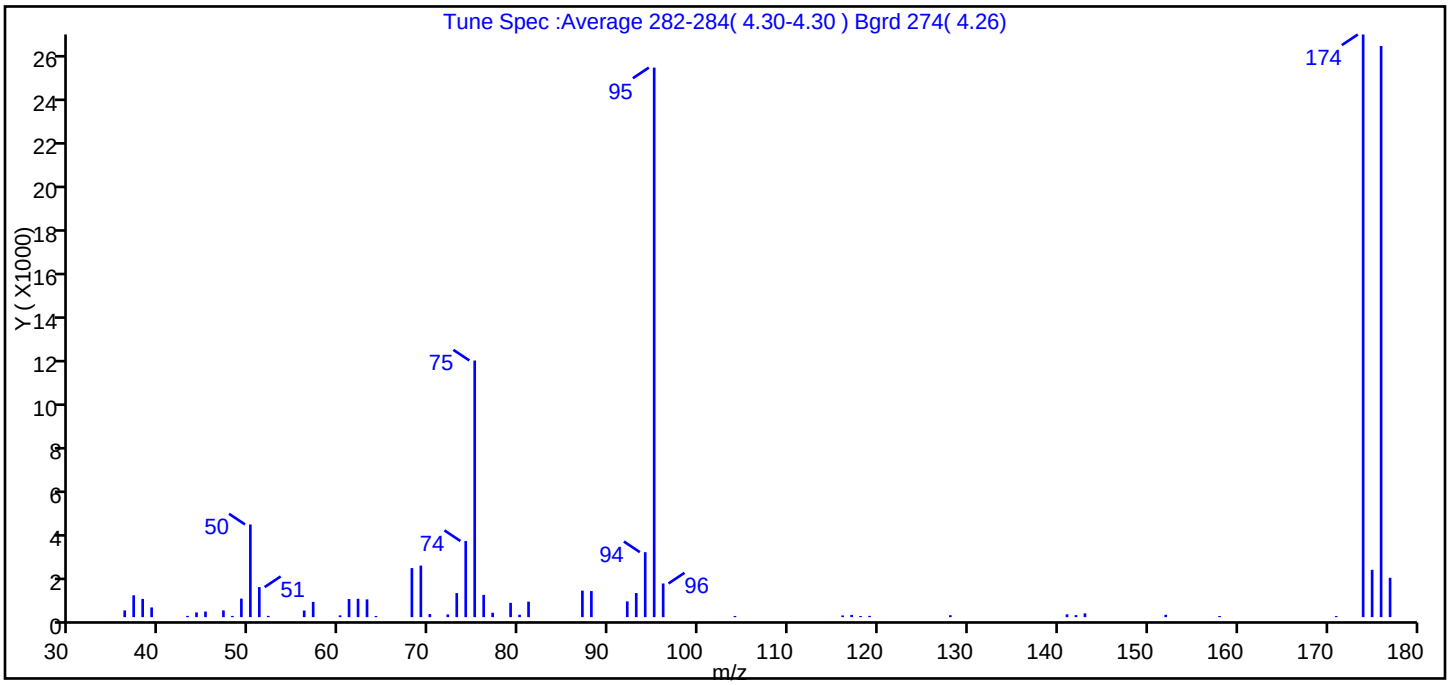
BFB_00010 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38328.D
Injection Date: 29-Mar-2016 02:50:30 Instrument ID: CVOAMS8
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base peak, 100% relative abundance | 100.0 |
| 50 | 15 to 40% of m/z 95 | 16.9 |
| 75 | 30 to 60% of m/z 95 | 46.7 |
| 96 | 5 to 9% of m/z 95 | 6.1 |
| 173 | Less than 2% of m/z 174 | 0.0 (0.0) |
| 174 | 50 to 120% of m/z 95 | 106.0 |
| 175 | 5 to 9% of m/z 174 | 8.6 (8.1) |
| 176 | Greater than 95% but less than 101% of m/z 174 | 103.9 (98.0) |
| 177 | 5 to 9% of m/z 176 | 7.2 (6.9) |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38328.D\8260_W8.rslt\spectra.d
Injection Date: 29-Mar-2016 02:50:30
Spectrum: Tune Spec :Average 282-284( 4.30-4.30 ) Bgrd 274( 4.26)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 55

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 310 | 57.00 | 701 | 77.00 | 202 | 118.00 | 50 |
| 37.00 | 1002 | 60.00 | 82 | 79.00 | 655 | 119.00 | 59 |
| 38.00 | 836 | 61.00 | 830 | 80.00 | 110 | 128.00 | 88 |
| 39.00 | 444 | 62.00 | 843 | 81.00 | 711 | 141.00 | 130 |
| 43.00 | 58 | 63.00 | 816 | 87.00 | 1218 | 142.00 | 94 |
| 44.00 | 218 | 64.00 | 52 | 88.00 | 1197 | 143.00 | 175 |
| 45.00 | 257 | 68.00 | 2251 | 92.00 | 723 | 152.00 | 108 |
| 47.00 | 310 | 69.00 | 2366 | 93.00 | 1107 | 158.00 | 51 |
| 48.00 | 57 | 70.00 | 142 | 94.00 | 2982 | 171.00 | 50 |
| 49.00 | 850 | 72.00 | 123 | 95.00 | 25224 | 174.00 | 26744 |
| 50.00 | 4254 | 73.00 | 1103 | 96.00 | 1545 | 175.00 | 2172 |
| 51.00 | 1379 | 74.00 | 3494 | 104.00 | 54 | 176.00 | 26216 |
| 52.00 | 59 | 75.00 | 11779 | 116.00 | 78 | 177.00 | 1807 |
| 56.00 | 303 | 76.00 | 1022 | 117.00 | 102 | | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39697.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 25-Apr-2016 20:56:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0040266-001
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 09:43:56 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: starzecm Date: 25-Apr-2016 21:15:20

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| $ 135 BFB | 95 | 4.275 | 4.275 | 0.000 | 92 | 16984 | NR | NR | |

## QC Flag Legend

Processing Flags
NR - Missing Quant Standard

## Reagents:

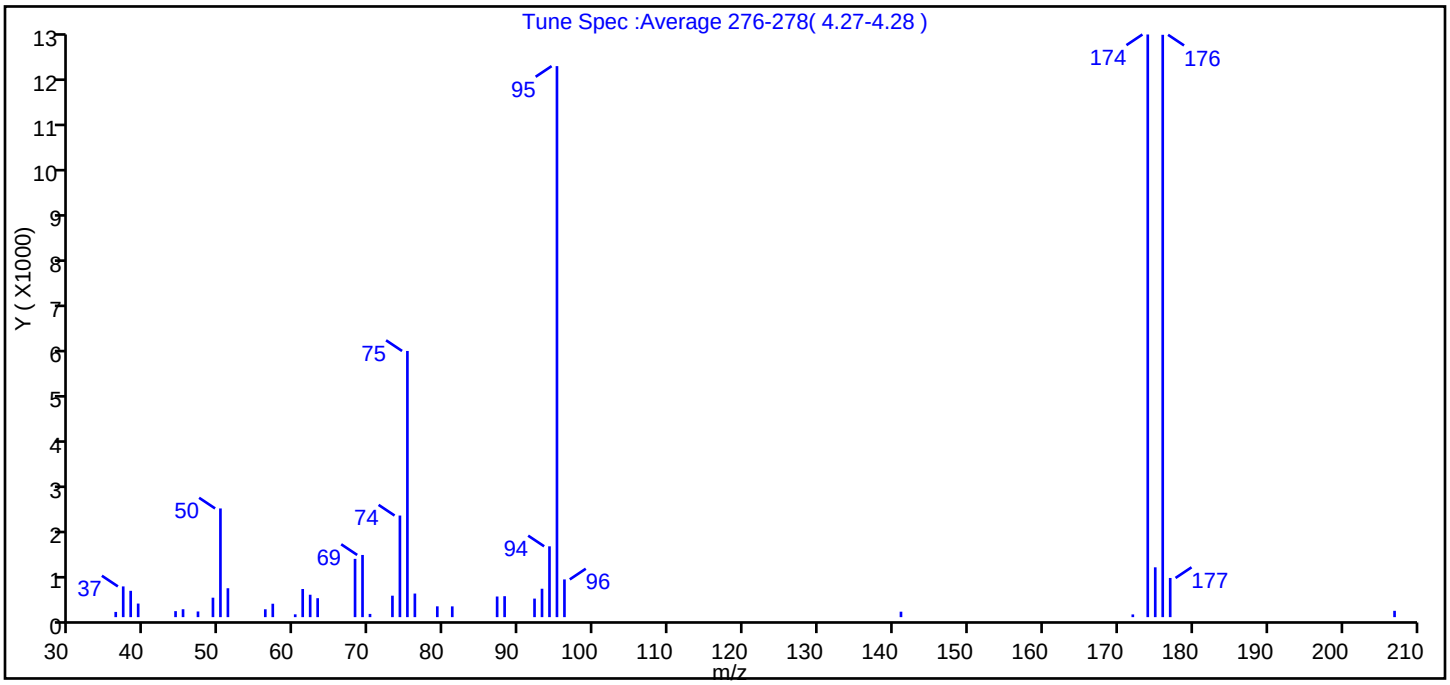
VMBFBn_00005 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39697.D
Injection Date: 25-Apr-2016 20:56:30 Instrument ID: CVOAMS8
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base peak, 100% relative abundance | 100.0 |
| 50 | 15 to 40% of m/z 95 | 19.7 |
| 75 | 30 to 60% of m/z 95 | 48.3 |
| 96 | 5 to 9% of m/z 95 | 6.8 |
| 173 | Less than 2% of m/z 174 | 0.0 (0.0) |
| 174 | 50 to 120% of m/z 95 | 105.7 |
| 175 | 5 to 9% of m/z 174 | 9.0 (8.6) |
| 176 | Greater than 95% but less than 101% of m/z 174 | 105.7 (99.9) |
| 177 | 5 to 9% of m/z 176 | 7.1 (6.7) |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39697.D\8260_W8.rslt\spectra.d
Injection Date: 25-Apr-2016 20:56:30
Spectrum: Tune Spec :Average 276-278( 4.27-4.28 )
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 39

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 115 | 56.00 | 173 | 74.00 | 2235 | 95.00 | 12121 |
| 37.00 | 676 | 57.00 | 295 | 75.00 | 5855 | 96.00 | 830 |
| 38.00 | 579 | 60.00 | 62 | 76.00 | 519 | 141.00 | 120 |
| 39.00 | 299 | 61.00 | 619 | 79.00 | 238 | 172.00 | 60 |
| 44.00 | 132 | 62.00 | 493 | 81.00 | 237 | 174.00 | 12817 |
| 45.00 | 174 | 63.00 | 417 | 87.00 | 454 | 175.00 | 1096 |
| 47.00 | 125 | 68.00 | 1282 | 88.00 | 461 | 176.00 | 12810 |
| 49.00 | 428 | 69.00 | 1368 | 92.00 | 408 | 177.00 | 862 |
| 50.00 | 2391 | 70.00 | 71 | 93.00 | 625 | 207.00 | 139 |
| 51.00 | 636 | 73.00 | 472 | 94.00 | 1558 | | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39723.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Apr-2016 09:02:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0040302-001
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 12:20:45 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 12:20:45

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| $ 135 BFB | 95 | 4.272 | 4.272 | 0.000 | 91 | 15787 | NR | NR | |

## QC Flag Legend

Processing Flags
NR - Missing Quant Standard

## Reagents:

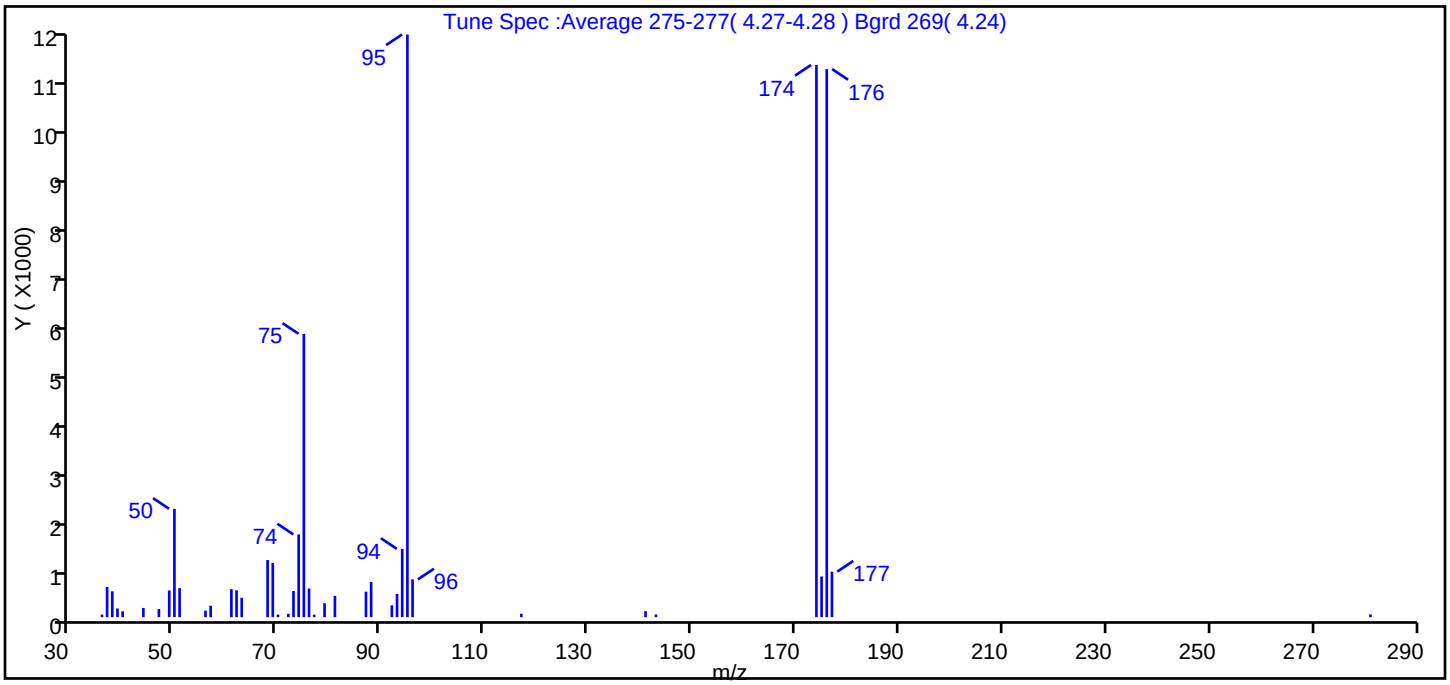
VMBFBn_00005 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39723.D
Injection Date: 26-Apr-2016 09:02:30 Instrument ID: CVOAMS8
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base peak, 100% relative abundance | 100.0 |
| 50 | 15 to 40% of m/z 95 | 18.6 |
| 75 | 30 to 60% of m/z 95 | 48.6 |
| 96 | 5 to 9% of m/z 95 | 6.5 |
| 173 | Less than 2% of m/z 174 | 0.0 (0.0) |
| 174 | 50 to 120% of m/z 95 | 94.8 |
| 175 | 5 to 9% of m/z 174 | 7.0 (7.4) |
| 176 | Greater than 95% but less than 101% of m/z 174 | 94.1 (99.3) |
| 177 | 5 to 9% of m/z 176 | 7.8 (8.3) |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39723.D\8260_W8.rslt\spectra.d
Injection Date: 26-Apr-2016 09:02:30
Spectrum: Tune Spec :Average 275-277( 4.27-4.28 ) Bgrd 269( 4.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 50 | 57.00 | 224 | 76.00 | 564 | 117.00 | 67 |
| 37.00 | 594 | 61.00 | 551 | 77.00 | 50 | 141.00 | 118 |
| 38.00 | 509 | 62.00 | 528 | 79.00 | 274 | 143.00 | 52 |
| 39.00 | 170 | 63.00 | 382 | 81.00 | 418 | 174.00 | 10867 |
| 40.00 | 114 | 68.00 | 1125 | 87.00 | 501 | 175.00 | 800 |
| 44.00 | 181 | 69.00 | 1066 | 88.00 | 690 | 176.00 | 10786 |
| 47.00 | 161 | 70.00 | 51 | 92.00 | 233 | 177.00 | 896 |
| 49.00 | 525 | 72.00 | 66 | 93.00 | 456 | 281.00 | 54 |
| 50.00 | 2132 | 73.00 | 514 | 94.00 | 1343 | | |
| 51.00 | 572 | 74.00 | 1628 | 95.00 | 11467 | | |
| 56.00 | 129 | 75.00 | 5576 | 96.00 | 743 | | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-364590/7

Matrix: Water | Lab File ID: J39703.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 00:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.090 | U | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.22 | U | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.26 | U | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-364590/7

Matrix: Water | Lab File ID: J39703.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 00:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.13 | U | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 0.12 | U | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 0.22 | U | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.060 | U | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 94 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 460-364590/7

Matrix: Water  Lab File ID: J39703.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/26/2016 00:14

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: Rtx-624 ID: 0.25(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 364590  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39703.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Apr-2016 00:14:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0040266-007
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:47:10 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 10:41:36

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 26 TBA-d9 (IS) | 65 | 2.897 | 2.898 | -0.001 | 81 | 424525 | 1000.0 | 1000.0 | |
| * 38 2-Butanone-d5 | 46 | 4.249 | 4.244 | 0.005 | 86 | 523515 | 250.0 | 250.0 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.813 | 4.814 | -0.001 | 97 | 270173 | 50.0 | 50.5 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.236 | 5.231 | 0.005 | 97 | 319858 | 50.0 | 53.8 | |
| * 62 Fluorobenzene | 96 | 5.547 | 5.548 | -0.001 | 98 | 996456 | 50.0 | 50.0 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.358 | 6.359 | -0.001 | 93 | 61019 | 1000.0 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.457 | 7.452 | 0.005 | 100 | 1058225 | 50.0 | 48.2 | |
| * 90 Chlorobenzene-d5 | 117 | 9.378 | 9.379 | -0.001 | 85 | 903761 | 50.0 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.553 | 10.554 | -0.001 | 96 | 371304 | 50.0 | 47.1 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.423 | 11.418 | 0.005 | 94 | 530575 | 50.0 | 50.0 | |

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

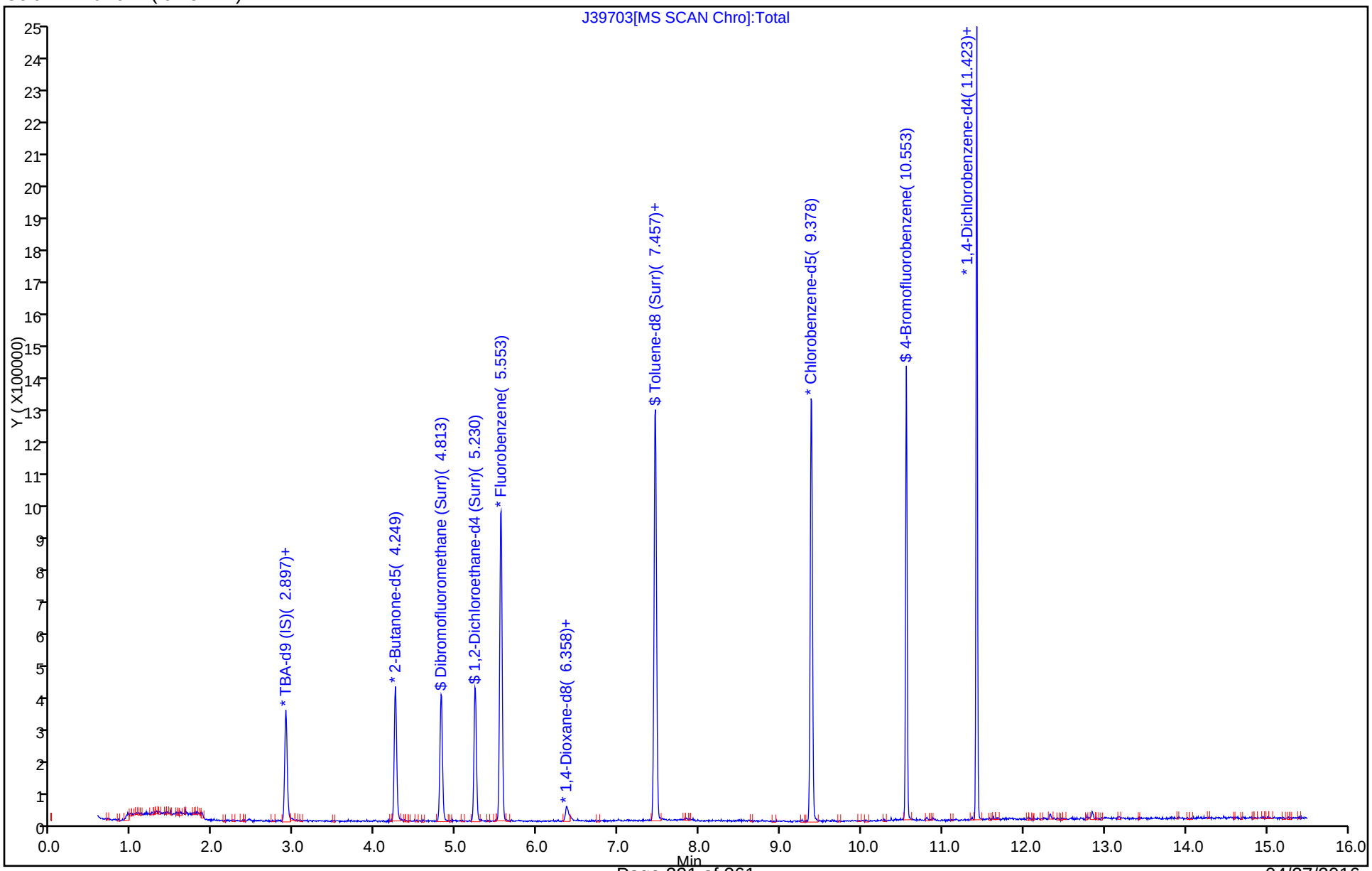
Report Date: 26-Apr-2016 10:47:12 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39703.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 00:14:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | MB | | | Worklist Smp#: | 7 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-364733/6

Matrix: Water | Lab File ID: J39728.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 11:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | U | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.19 | U | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.080 | U | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | U | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.35 | U | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.27 | U | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.23 | U | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 0.19 | U | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.22 | U | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | U | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 0.18 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.33 | U | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 8.7 | U | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 2.2 | U | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 0.72 | U | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.63 | U | 5.0 | 0.63 |
| 67-64-1 | Acetone | 1.1 | U | 5.0 | 1.1 |
| 71-43-2 | Benzene | 0.090 | U | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 0.30 | U | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 0.15 | U | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 0.18 | U | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 0.18 | U | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 0.22 | U | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 0.33 | U | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 0.24 | U | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 0.37 | U | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 0.22 | U | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 0.22 | U | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.26 | U | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 0.26 | U | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 0.22 | U | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 0.14 | U | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 0.30 | U | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-364733/6

Matrix: Water | Lab File ID: J39728.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 11:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 0.34 | U | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 0.28 | U | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 0.58 | U | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 0.22 | U | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 0.21 | U | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 0.13 | U | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 0.32 | U | 1.0 | 0.32 |
| 100-42-5 | Styrene | 0.17 | U | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 0.12 | U | 1.0 | 0.12 |
| 108-88-3 | Toluene | 0.25 | U | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.18 | U | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.19 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 0.22 | U | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 0.15 | U | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 0.060 | U | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 97 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison  Job No.: 460-112643-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 460-364733/6

Matrix: Water  Lab File ID: J39728.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/26/2016 11:15

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: Rtx-624 ID: 0.25(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 364733  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39728.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Apr-2016 11:15:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0040302-006
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 12:26:26 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 12:26:26

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 26 TBA-d9 (IS) | 65 | 2.914 | 2.903 | 0.011 | 80 | 443103 | 1000.0 | 1000.0 | |
| * 38 2-Butanone-d5 | 46 | 4.260 | 4.254 | 0.006 | 86 | 524381 | 250.0 | 250.0 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.824 | 4.824 | 0.000 | 98 | 265763 | 50.0 | 49.2 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.247 | 5.247 | 0.000 | 95 | 315774 | 50.0 | 52.6 | |
| * 62 Fluorobenzene | 96 | 5.564 | 5.558 | 0.006 | 98 | 1005865 | 50.0 | 50.0 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.387 | 6.375 | 0.012 | 92 | 64480 | 1000.0 | 1000.0 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.468 | 7.462 | 0.006 | 99 | 1077578 | 50.0 | 50.2 | |
| * 90 Chlorobenzene-d5 | 117 | 9.389 | 9.389 | 0.000 | 85 | 883434 | 50.0 | 50.0 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.564 | 10.558 | 0.006 | 97 | 372110 | 50.0 | 48.3 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.428 | 11.428 | 0.000 | 94 | 515099 | 50.0 | 50.0 | |

## Reagents:

8260ISNEW_00063 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00118 Amount Added: 1.00 Units: uL Run Reagent

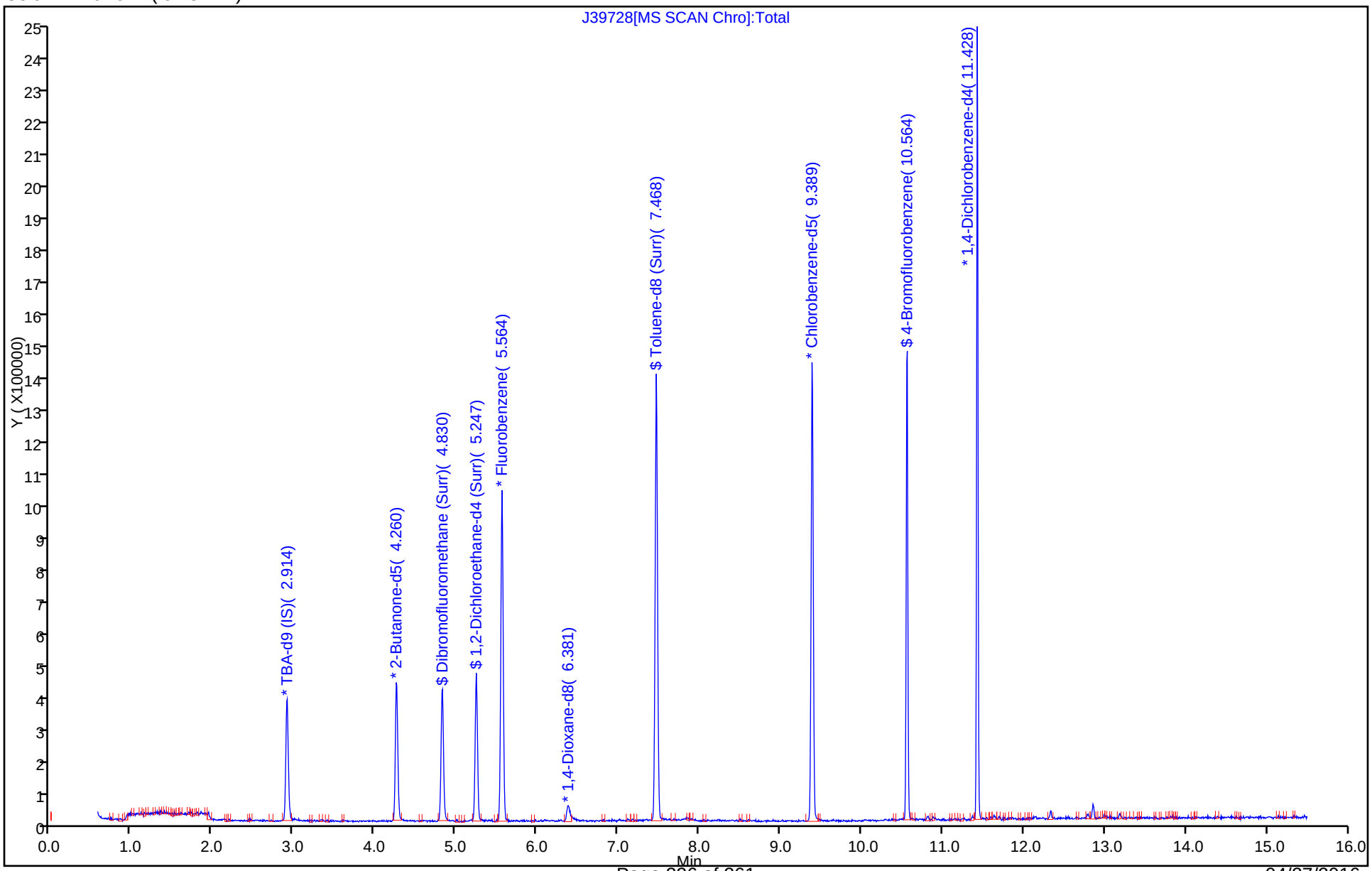
Report Date: 26-Apr-2016 12:26:27 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39728.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 11:15:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | MB | | | Worklist Smp#: | 6 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-364590/3

Matrix: Water | Lab File ID: J39699.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/25/2016 21:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 22.2 | | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.2 | | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 21.5 | | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 21.8 | | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 21.8 | | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 23.7 | | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 21.6 | | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.0 | | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 21.3 | | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 21.9 | | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 23.0 | | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 21.7 | | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 21.2 | | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 20.7 | | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 480 | | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 91.4 | | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 98.4 | | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 116 | | 5.0 | 0.63 |
| 67-64-1 | Acetone | 101 | | 5.0 | 1.1 |
| 71-43-2 | Benzene | 22.9 | | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 21.1 | | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 22.1 | | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 19.6 | | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 18.6 | | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 23.1 | | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 23.7 | | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 22.5 | | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 20.7 | | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 22.6 | | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 22.7 | | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 19.9 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.8 | | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 25.5 | | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 21.4 | | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 24.9 | | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 20.6 | | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-364590/3

Matrix: Water | Lab File ID: J39699.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/25/2016 21:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 24.8 | | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 24.2 | | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 21.7 | | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 130 | | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 25.7 | | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 21.1 | | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 22.7 | | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 21.6 | | 1.0 | 0.32 |
| 100-42-5 | Styrene | 22.4 | | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 21.1 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 21.9 | | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 20.6 | | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 21.8 | | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 22.2 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 24.6 | | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 23.3 | | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 103 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 106 | | 70-130 |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39699.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 25-Apr-2016 21:58:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0040266-003
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:40:18 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: starzecm Date: 25-Apr-2016 22:46:52

| | Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Chlorotrifluoroethene | 66 | 0.676 | 0.676 | 0.000 | 93 | 15191 | 20.0 | 22.3 | |
| 2 | Dichlorodifluoromethane | 85 | 0.711 | 0.711 | 0.000 | 99 | 148621 | 20.0 | 24.9 | |
| 3 | Chloromethane | 50 | 0.917 | 0.917 | 0.000 | 100 | 176152 | 20.0 | 22.7 | |
| 4 | Vinyl chloride | 62 | 1.023 | 1.023 | 0.000 | 98 | 180448 | 20.0 | 23.3 | |
| 5 | Butadiene | 54 | 1.058 | 1.058 | 0.000 | 96 | 152902 | 20.0 | 24.7 | |
| 6 | Bromomethane | 94 | 1.393 | 1.393 | 0.000 | 99 | 96474 | 20.0 | 18.6 | |
| 7 | Chloroethane | 64 | 1.504 | 1.504 | 0.000 | 99 | 102368 | 20.0 | 20.7 | |
| 8 | Dichlorofluoromethane | 67 | 1.728 | 1.728 | 0.000 | 96 | 273097 | 20.0 | 22.9 | |
| 9 | Trichlorofluoromethane | 101 | 1.733 | 1.733 | 0.000 | 76 | 220096 | 20.0 | 24.6 | |
| 10 | Pentane | 72 | 1.792 | 1.792 | 0.000 | 95 | 39095 | 40.0 | 48.4 | |
| 11 | Ethanol | 46 | 2.015 | 2.015 | 0.000 | 97 | 28177 | 800.0 | 1075.2 | |
| 12 | Ethyl ether | 59 | 2.057 | 2.057 | 0.000 | 90 | 109623 | 20.0 | 21.6 | |
| 13 | 2-Methyl-1,3-butadiene | 53 | 2.074 | 2.074 | 0.000 | 93 | 114977 | 20.0 | 24.4 | |
| 14 | 1,2-Dichloro-1,1,2-trifluo | 117 | 2.121 | 2.121 | 0.000 | 89 | 111542 | 20.0 | 22.6 | |
| 15 | 1,1,2-Trichloro-1,2,2-trif | 101 | 2.262 | 2.262 | 0.000 | 96 | 115117 | 20.0 | 24.8 | |
| 16 | Acrolein | 56 | 2.280 | 2.280 | 0.000 | 93 | 55383 | 40.0 | 43.1 | |
| 17 | 1,1-Dichloroethene | 96 | 2.309 | 2.309 | 0.000 | 98 | 122418 | 20.0 | 21.8 | |
| 18 | Acetone | 43 | 2.450 | 2.450 | 0.000 | 86 | 202798 | 100.0 | 100.9 | |
| 19 | Iodomethane | 142 | 2.503 | 2.503 | 0.000 | 97 | 188007 | 20.0 | 19.9 | |
| 20 | Carbon disulfide | 76 | 2.533 | 2.533 | 0.000 | 98 | 452414 | 20.0 | 23.1 | |
| 21 | Isopropyl alcohol | 45 | 2.568 | 2.568 | 0.000 | 98 | 72217 | 200.0 | 215.6 | |
| 22 | 3-Chloro-1-propene | 76 | 2.732 | 2.732 | 0.000 | 90 | 73589 | 20.0 | 20.8 | |
| 24 | Cyclopentene | 67 | 2.744 | 2.744 | 0.000 | 96 | 330628 | 20.0 | 24.0 | |
| 23 | Methyl acetate | 43 | 2.756 | 2.756 | 0.000 | 100 | 538608 | 100.0 | 130.4 | |
| 25 | Acetonitrile | 41 | 2.826 | 2.826 | 0.000 | 98 | 177697 | 200.0 | 218.9 | |
| 27 | Methylene Chloride | 84 | 2.891 | 2.891 | 0.000 | 92 | 144137 | 20.0 | 21.1 | |
| * 26 | TBA-d9 (IS) | 65 | 2.903 | 2.903 | 0.000 | 96 | 409461 | 1000.0 | 1000.0 | |
| 28 | 2-Methyl-2-propanol | 59 | 2.991 | 2.991 | 0.000 | 99 | 131742 | 200.0 | 225.9 | |
| 29 | Methyl tert-butyl ether | 73 | 3.097 | 3.097 | 0.000 | 97 | 393766 | 20.0 | 22.7 | |
| 30 | trans-1,2-Dichloroethene | 96 | 3.126 | 3.126 | 0.000 | 95 | 137440 | 20.0 | 20.6 | |
| 31 | Acrylonitrile | 53 | 3.243 | 3.243 | 0.000 | 91 | 531241 | 200.0 | 208.3 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 32 Hexane | 57 | 3.326 | 3.326 | 0.000 | 91 | 108477 | 20.0 | 23.8 | |
| 33 Isopropyl ether | 45 | 3.602 | 3.602 | 0.000 | 97 | 429096 | 20.0 | 24.4 | |
| 34 1,1-Dichloroethane | 63 | 3.637 | 3.637 | 0.000 | 100 | 257770 | 20.0 | 21.8 | |
| 35 Vinyl acetate | 43 | 3.672 | 3.672 | 0.000 | 100 | 494377 | 40.0 | 49.4 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.696 | 3.696 | 0.000 | 91 | 124030 | 20.0 | 23.3 | |
| 37 Tert-butyl ethyl ether | 59 | 4.001 | 4.001 | 0.000 | 89 | 425174 | 20.0 | 23.0 | |
| 39 2,2-Dichloropropane | 79 | 4.248 | 4.248 | 0.000 | 66 | 65751 | 20.0 | 22.4 | |
| * 38 2-Butanone-d5 | 46 | 4.248 | 4.248 | 0.000 | 97 | 484678 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.278 | 4.278 | 0.000 | 97 | 154711 | 20.0 | 19.9 | |
| 42 Ethyl acetate | 43 | 4.319 | 4.319 | 0.000 | 94 | 600912 | 40.0 | 45.9 | |
| 41 2-Butanone (MEK) | 72 | 4.319 | 4.319 | 0.000 | 96 | 82090 | 100.0 | 91.4 | |
| 43 Methyl acrylate | 55 | 4.383 | 4.383 | 0.000 | 100 | 132446 | 20.0 | 22.0 | |
| 44 Propionitrile | 54 | 4.483 | 4.483 | 0.000 | 98 | 213761 | 200.0 | 208.3 | |
| 45 Tetrahydrofuran | 72 | 4.560 | 4.560 | 0.000 | 77 | 37658 | 40.0 | 37.0 | |
| 46 Chlorobromomethane | 128 | 4.560 | 4.560 | 0.000 | 89 | 81706 | 20.0 | 21.1 | |
| 47 Methacrylonitrile | 67 | 4.601 | 4.601 | 0.000 | 94 | 649448 | 200.0 | 233.1 | |
| 48 Chloroform | 83 | 4.624 | 4.624 | 0.000 | 97 | 250050 | 20.0 | 22.6 | |
| 49 Cyclohexane | 56 | 4.759 | 4.759 | 0.000 | 91 | 178382 | 20.0 | 25.5 | |
| 50 1,1,1-Trichloroethane | 97 | 4.789 | 4.789 | 0.000 | 98 | 199217 | 20.0 | 22.2 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.812 | 4.812 | 0.000 | 97 | 261242 | 50.0 | 52.4 | |
| 52 Carbon tetrachloride | 117 | 4.930 | 4.930 | 0.000 | 98 | 176476 | 20.0 | 23.7 | |
| 53 1,1-Dichloropropene | 75 | 4.971 | 4.971 | 0.000 | 96 | 194394 | 20.0 | 23.0 | |
| 54 Isobutyl alcohol | 43 | 5.135 | 5.135 | 0.000 | 97 | 183224 | 500.0 | 635.0 | |
| 55 Isooctane | 57 | 5.165 | 5.165 | 0.000 | 90 | 254980 | 20.0 | 30.9 | |
| 56 Benzene | 78 | 5.206 | 5.206 | 0.000 | 95 | 570348 | 20.0 | 22.9 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.235 | 5.235 | 0.000 | 96 | 304024 | 50.0 | 54.9 | |
| 59 Tert-amyl methyl ether | 73 | 5.282 | 5.282 | 0.000 | 93 | 392264 | 20.0 | 21.2 | |
| 58 Isopropyl acetate | 43 | 5.288 | 5.288 | 0.000 | 95 | 387367 | 20.0 | 23.1 | |
| 60 1,2-Dichloroethane | 62 | 5.323 | 5.323 | 0.000 | 97 | 204346 | 20.0 | 23.0 | |
| 61 n-Heptane | 57 | 5.388 | 5.388 | 0.000 | 94 | 54069 | 20.0 | 25.2 | |
| * 62 Fluorobenzene | 96 | 5.553 | 5.553 | 0.000 | 99 | 927822 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.917 | 5.917 | 0.000 | 90 | 92021 | 500.0 | 574.1 | |
| 64 Trichloroethene | 95 | 5.958 | 5.958 | 0.000 | 98 | 148523 | 20.0 | 22.2 | |
| 66 Methylcyclohexane | 83 | 6.087 | 6.087 | 0.000 | 91 | 146150 | 20.0 | 25.7 | |
| 65 Ethyl acrylate | 55 | 6.111 | 6.111 | 0.000 | 95 | 299377 | 20.0 | 23.8 | |
| 67 1,2-Dichloropropane | 63 | 6.299 | 6.299 | 0.000 | 88 | 146268 | 20.0 | 21.7 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.357 | 6.357 | 0.000 | 85 | 57128 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.393 | 6.393 | 0.000 | 90 | 87859 | 40.0 | 42.1 | |
| 70 1,4-Dioxane | 88 | 6.440 | 6.440 | 0.000 | 35 | 36384 | 400.0 | 479.8 | |
| 72 Dibromomethane | 93 | 6.446 | 6.446 | 0.000 | 93 | 94060 | 20.0 | 21.4 | |
| 71 n-Propyl acetate | 43 | 6.451 | 6.451 | 0.000 | 98 | 221939 | 20.0 | 23.7 | |
| 73 Dichlorobromomethane | 83 | 6.610 | 6.610 | 0.000 | 99 | 194510 | 20.0 | 22.1 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.004 | 7.004 | 0.000 | 73 | 94701 | 20.0 | 19.6 | |
| 75 2-Nitropropane | 41 | 7.004 | 7.004 | 0.000 | 82 | 77361 | 40.0 | 49.5 | |
| 76 Epichlorohydrin | 57 | 7.121 | 7.121 | 0.000 | 99 | 313162 | 400.0 | 429.8 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.180 | 7.180 | 0.000 | 92 | 244766 | 20.0 | 21.8 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.368 | 7.368 | 0.000 | 96 | 698469 | 100.0 | 116.5 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.450 | 7.450 | 0.000 | 100 | 1059113 | 50.0 | 52.8 | |
| 80 Toluene | 91 | 7.538 | 7.538 | 0.000 | 94 | 602373 | 20.0 | 21.9 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.926 | 7.926 | 0.000 | 98 | 221610 | 20.0 | 21.8 | |
| 82 Ethyl methacrylate | 69 | 7.956 | 7.956 | 0.000 | 89 | 187878 | 20.0 | 21.6 | |
| 83 1,1,2-Trichloroethane | 83 | 8.161 | 8.161 | 0.000 | 93 | 121021 | 20.0 | 21.5 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | 166 | 8.202 | 8.202 | 0.000 | 95 | 147630 | 20.0 | 21.1 | |
| 85 1,3-Dichloropropane | 76 | 8.396 | 8.396 | 0.000 | 93 | 239076 | 20.0 | 22.3 | |
| 86 2-Hexanone | 58 | 8.461 | 8.461 | 0.000 | 95 | 276037 | 100.0 | 98.4 | |
| 87 n-Butyl acetate | 43 | 8.578 | 8.578 | 0.000 | 100 | 224904 | 20.0 | 23.5 | |
| 88 Chlorodibromomethane | 129 | 8.649 | 8.649 | 0.000 | 98 | 162232 | 20.0 | 21.4 | |
| 89 Ethylene Dibromide | 107 | 8.825 | 8.825 | 0.000 | 97 | 147911 | 20.0 | 21.3 | |
| * 90 Chlorobenzene-d5 | 117 | 9.377 | 9.377 | 0.000 | 85 | 826652 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.413 | 9.413 | 0.000 | 96 | 429604 | 20.0 | 22.5 | |
| 92 Ethylbenzene | 106 | 9.501 | 9.501 | 0.000 | 98 | 199607 | 20.0 | 20.6 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.518 | 9.518 | 0.000 | 96 | 155071 | 20.0 | 22.0 | |
| 94 m-Xylene & p-Xylene | 106 | 9.636 | 9.636 | 0.000 | 96 | 255686 | 20.0 | 21.7 | |
| 95 n-Butyl acrylate | 73 | 10.024 | 10.024 | 0.000 | 98 | 119711 | 20.0 | 21.1 | |
| 96 o-Xylene | 106 | 10.047 | 10.047 | 0.000 | 94 | 267152 | 20.0 | 21.6 | |
| 97 Styrene | 104 | 10.077 | 10.077 | 0.000 | 95 | 461383 | 20.0 | 22.4 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.235 | 10.235 | 0.000 | 90 | 277867 | 20.0 | 23.0 | |
| 99 Bromoform | 173 | 10.270 | 10.270 | 0.000 | 97 | 116743 | 20.0 | 19.6 | |
| 100 Isopropylbenzene | 105 | 10.376 | 10.376 | 0.000 | 95 | 565508 | 20.0 | 24.2 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.553 | 10.553 | 0.000 | 96 | 371326 | 50.0 | 51.5 | |
| 102 Bromobenzene | 156 | 10.670 | 10.670 | 0.000 | 92 | 197104 | 20.0 | 19.7 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.699 | 10.699 | 0.000 | 97 | 194982 | 20.0 | 20.2 | |
| 104 N-Propylbenzene | 91 | 10.723 | 10.723 | 0.000 | 100 | 646583 | 20.0 | 21.9 | |
| 105 1,2,3-Trichloropropane | 110 | 10.746 | 10.746 | 0.000 | 98 | 58489 | 20.0 | 20.5 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.752 | 10.752 | 0.000 | 91 | 56974 | 20.0 | 20.8 | |
| 107 4-Ethyltoluene | 105 | 10.811 | 10.811 | 0.000 | 88 | 565257 | 20.0 | 22.9 | |
| 108 2-Chlorotoluene | 91 | 10.811 | 10.811 | 0.000 | 94 | 491467 | 20.0 | 22.2 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.864 | 10.864 | 0.000 | 94 | 480086 | 20.0 | 22.7 | |
| 110 4-Chlorotoluene | 91 | 10.905 | 10.905 | 0.000 | 97 | 462406 | 20.0 | 22.1 | |
| 111 Butyl Methacrylate | 87 | 10.929 | 10.929 | 0.000 | 91 | 225096 | 20.0 | 21.3 | |
| 112 tert-Butylbenzene | 119 | 11.099 | 11.099 | 0.000 | 95 | 368723 | 20.0 | 22.0 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.146 | 11.146 | 0.000 | 97 | 519546 | 20.0 | 22.8 | |
| 114 sec-Butylbenzene | 105 | 11.258 | 11.258 | 0.000 | 99 | 513464 | 20.0 | 23.5 | |
| 115 4-Isopropyltoluene | 119 | 11.357 | 11.357 | 0.000 | 98 | 475736 | 20.0 | 23.7 | |
| 116 1,3-Dichlorobenzene | 146 | 11.369 | 11.369 | 0.000 | 97 | 339651 | 20.0 | 21.2 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.422 | 11.422 | 0.000 | 93 | 512116 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.434 | 11.434 | 0.000 | 96 | 341794 | 20.0 | 20.7 | |
| 119 Benzyl chloride | 91 | 11.534 | 11.534 | 0.000 | 99 | 373091 | 20.0 | 21.5 | |
| 120 2,3-Dihydroindene | 117 | 11.587 | 11.587 | 0.000 | 94 | 656323 | 20.0 | 21.4 | |
| 121 p-Diethylbenzene | 119 | 11.610 | 11.610 | 0.000 | 93 | 286477 | 20.0 | 23.0 | |
| 122 n-Butylbenzene | 91 | 11.628 | 11.628 | 0.000 | 93 | 469381 | 20.0 | 23.1 | |
| 123 1,2-Dichlorobenzene | 146 | 11.686 | 11.686 | 0.000 | 97 | 357583 | 20.0 | 21.9 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.127 | 12.127 | 0.000 | 98 | 484042 | 20.0 | 24.5 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.227 | 12.227 | 0.000 | 97 | 37436 | 20.0 | 21.0 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.321 | 12.321 | 0.000 | 97 | 223388 | 20.0 | 23.0 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.779 | 12.779 | 0.000 | 93 | 195966 | 20.0 | 21.6 | |
| 128 Hexachlorobutadiene | 225 | 12.844 | 12.844 | 0.000 | 97 | 94713 | 20.0 | 23.3 | |
| 129 Naphthalene | 128 | 12.985 | 12.985 | 0.000 | 99 | 492829 | 20.0 | 22.9 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.173 | 13.173 | 0.000 | 96 | 177531 | 20.0 | 23.7 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 40.5 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 43.3 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 108.7 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GASES Li_00150 | Amount Added: | 20.00 | Units: uL | |
| 8260MIX1COMB_00035 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00050 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

Report Date: 26-Apr-2016 10:40:18 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39699.D

Injection Date: 25-Apr-2016 21:58:30 Instrument ID: CVOAMS8 Operator ID:

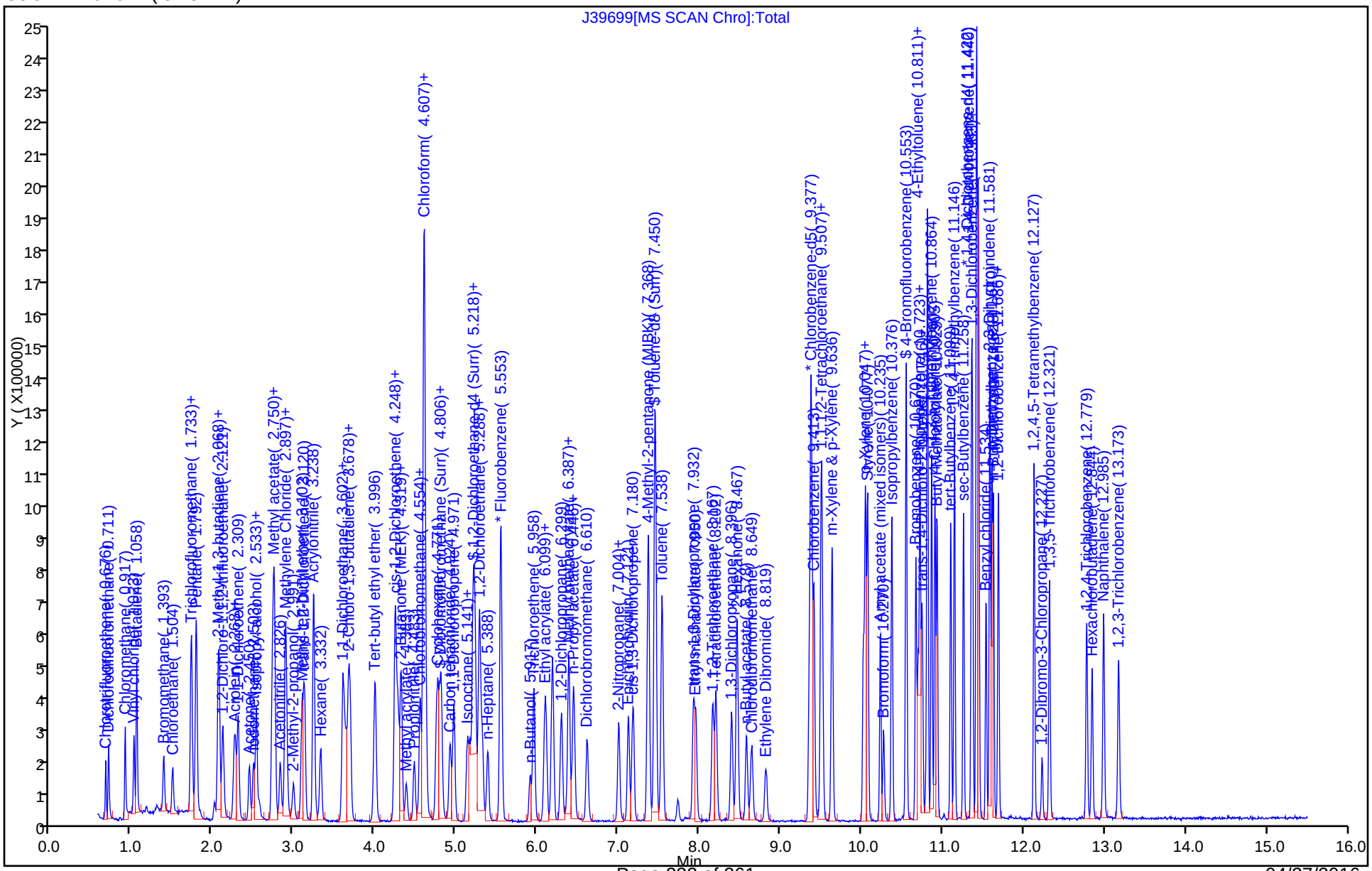
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-364733/3

Matrix: Water | Lab File ID: J39725.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 09:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 21.0 | | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.0 | | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 19.6 | | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 19.5 | | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 20.0 | | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.5 | | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.7 | | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.4 | | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 18.4 | | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 19.9 | | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 20.8 | | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 20.3 | | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 19.9 | | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 20.0 | | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 465 | | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 86.2 | | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 86.4 | | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 101 | | 5.0 | 0.63 |
| 67-64-1 | Acetone | 87.3 | | 5.0 | 1.1 |
| 71-43-2 | Benzene | 20.8 | | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 19.4 | | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 20.6 | | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 18.0 | | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 19.6 | | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 21.1 | | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 21.5 | | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 19.6 | | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 19.0 | | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 20.7 | | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 21.3 | | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 18.8 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.2 | | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 21.2 | | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 20.3 | | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 16.2 | | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 18.6 | | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-364733/3

Matrix: Water | Lab File ID: J39725.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 09:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 21.2 | | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 21.9 | | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 19.8 | | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 120 | | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 20.1 | | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 20.1 | | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 21.4 | | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 18.9 | | 1.0 | 0.32 |
| 100-42-5 | Styrene | 20.0 | | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 19.1 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 20.2 | | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 20.1 | | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 20.5 | | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 19.9 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 20.7 | | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 20.9 | | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 97 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39725.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Apr-2016 09:54:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0040302-003
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 12:24:59 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 12:24:59

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.678 | 0.678 | 0.000 | 92 | 14367 | 20.0 | 19.8 | |
| 2 Dichlorodifluoromethane | 85 | 0.713 | 0.713 | 0.000 | 99 | 103170 | 20.0 | 16.2 | |
| 3 Chloromethane | 50 | 0.919 | 0.919 | 0.000 | 99 | 175898 | 20.0 | 21.3 | |
| 4 Vinyl chloride | 62 | 1.030 | 1.030 | 0.000 | 98 | 172691 | 20.0 | 20.9 | |
| 5 Butadiene | 54 | 1.065 | 1.065 | 0.000 | 96 | 131383 | 20.0 | 19.9 | |
| 6 Bromomethane | 94 | 1.400 | 1.400 | 0.000 | 98 | 107974 | 20.0 | 19.6 | |
| 7 Chloroethane | 64 | 1.512 | 1.512 | 0.000 | 100 | 100191 | 20.0 | 19.0 | |
| 8 Dichlorofluoromethane | 67 | 1.741 | 1.741 | 0.000 | 96 | 288102 | 20.0 | 22.7 | |
| 9 Trichlorofluoromethane | 101 | 1.741 | 1.741 | 0.000 | 71 | 197045 | 20.0 | 20.7 | |
| 10 Pentane | 72 | 1.800 | 1.800 | 0.000 | 95 | 30705 | 40.0 | 36.8 | |
| 11 Ethanol | 46 | 2.023 | 2.023 | 0.000 | 95 | 26425 | 800.0 | 976.3 | |
| 12 Ethyl ether | 59 | 2.064 | 2.064 | 0.000 | 96 | 110156 | 20.0 | 20.4 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.082 | 2.082 | 0.000 | 92 | 109820 | 20.0 | 21.9 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.129 | 2.129 | 0.000 | 87 | 110739 | 20.0 | 21.1 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.276 | 2.276 | 0.000 | 97 | 104888 | 20.0 | 21.2 | |
| 16 Acrolein | 56 | 2.293 | 2.293 | 0.000 | 96 | 46707 | 40.0 | 35.2 | |
| 17 1,1-Dichloroethene | 96 | 2.317 | 2.317 | 0.000 | 96 | 119497 | 20.0 | 20.0 | |
| 18 Acetone | 43 | 2.452 | 2.452 | 0.000 | 86 | 191788 | 100.0 | 87.3 | |
| 19 Iodomethane | 142 | 2.511 | 2.511 | 0.000 | 97 | 190552 | 20.0 | 19.0 | |
| 20 Carbon disulfide | 76 | 2.540 | 2.540 | 0.000 | 99 | 440182 | 20.0 | 21.1 | |
| 21 Isopropyl alcohol | 45 | 2.581 | 2.581 | 0.000 | 99 | 72671 | 200.0 | 210.1 | |
| 22 3-Chloro-1-propene | 76 | 2.746 | 2.746 | 0.000 | 91 | 76627 | 20.0 | 20.3 | |
| 24 Cyclopentene | 67 | 2.752 | 2.752 | 0.000 | 93 | 321207 | 20.0 | 21.9 | |
| 23 Methyl acetate | 43 | 2.769 | 2.769 | 0.000 | 100 | 528602 | 100.0 | 120.1 | |
| 25 Acetonitrile | 41 | 2.840 | 2.840 | 0.000 | 100 | 182575 | 200.0 | 217.8 | |
| 27 Methylene Chloride | 84 | 2.899 | 2.899 | 0.000 | 92 | 146570 | 20.0 | 20.1 | |
| * 26 TBA-d9 (IS) | 65 | 2.910 | 2.910 | 0.000 | 95 | 422884 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.998 | 2.998 | 0.000 | 98 | 127239 | 200.0 | 210.8 | |
| 29 Methyl tert-butyl ether | 73 | 3.110 | 3.110 | 0.000 | 97 | 394010 | 20.0 | 21.4 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.139 | 3.139 | 0.000 | 93 | 142741 | 20.0 | 20.1 | |
| 31 Acrylonitrile | 53 | 3.251 | 3.251 | 0.000 | 95 | 536592 | 200.0 | 203.7 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 32 Hexane | 57 | 3.339 | 3.339 | 0.000 | 90 | 94451 | 20.0 | 19.5 | |
| 33 Isopropyl ether | 45 | 3.615 | 3.615 | 0.000 | 96 | 419856 | 20.0 | 22.4 | |
| 34 1,1-Dichloroethane | 63 | 3.651 | 3.651 | 0.000 | 99 | 245953 | 20.0 | 19.5 | |
| 35 Vinyl acetate | 43 | 3.680 | 3.680 | 0.000 | 100 | 537850 | 40.0 | 50.4 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.704 | 3.704 | 0.000 | 90 | 121705 | 20.0 | 21.5 | |
| 37 Tert-butyl ethyl ether | 59 | 4.009 | 4.009 | 0.000 | 91 | 405673 | 20.0 | 20.6 | |
| 39 2,2-Dichloropropane | 79 | 4.262 | 4.262 | 0.000 | 68 | 69140 | 20.0 | 22.1 | |
| * 38 2-Butanone-d5 | 46 | 4.262 | 4.262 | 0.000 | 99 | 527604 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.291 | 4.291 | 0.000 | 95 | 155615 | 20.0 | 18.8 | |
| 41 2-Butanone (MEK) | 72 | 4.332 | 4.332 | 0.000 | 96 | 84264 | 100.0 | 86.2 | |
| 42 Ethyl acetate | 43 | 4.332 | 4.332 | 0.000 | 95 | 578096 | 40.0 | 40.6 | |
| 43 Methyl acrylate | 55 | 4.397 | 4.397 | 0.000 | 100 | 130958 | 20.0 | 20.4 | |
| 44 Propionitrile | 54 | 4.497 | 4.497 | 0.000 | 97 | 211882 | 200.0 | 199.9 | |
| 45 Tetrahydrofuran | 72 | 4.561 | 4.561 | 0.000 | 68 | 33889 | 40.0 | 30.6 | |
| 46 Chlorobromomethane | 128 | 4.573 | 4.573 | 0.000 | 87 | 80293 | 20.0 | 19.4 | |
| 47 Methacrylonitrile | 67 | 4.614 | 4.614 | 0.000 | 92 | 618480 | 200.0 | 208.4 | |
| 48 Chloroform | 83 | 4.632 | 4.632 | 0.000 | 85 | 243170 | 20.0 | 20.7 | |
| 49 Cyclohexane | 56 | 4.773 | 4.773 | 0.000 | 91 | 157635 | 20.0 | 21.2 | |
| 50 1,1,1-Trichloroethane | 97 | 4.802 | 4.802 | 0.000 | 99 | 200294 | 20.0 | 21.0 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.826 | 4.826 | 0.000 | 95 | 270935 | 50.0 | 51.1 | |
| 52 Carbon tetrachloride | 117 | 4.937 | 4.937 | 0.000 | 96 | 170288 | 20.0 | 21.5 | |
| 53 1,1-Dichloropropene | 75 | 4.984 | 4.984 | 0.000 | 97 | 190368 | 20.0 | 21.2 | |
| 54 Isobutyl alcohol | 43 | 5.143 | 5.143 | 0.000 | 98 | 172031 | 500.0 | 577.3 | |
| 55 Isooctane | 57 | 5.184 | 5.184 | 0.000 | 98 | 221577 | 20.0 | 25.2 | |
| 56 Benzene | 78 | 5.219 | 5.219 | 0.000 | 95 | 563112 | 20.0 | 20.8 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.249 | 5.249 | 0.000 | 96 | 319019 | 50.0 | 54.1 | |
| 59 Tert-amyl methyl ether | 73 | 5.302 | 5.302 | 0.000 | 76 | 395927 | 20.0 | 20.1 | |
| 58 Isopropyl acetate | 43 | 5.302 | 5.302 | 0.000 | 91 | 387473 | 20.0 | 21.7 | |
| 60 1,2-Dichloroethane | 62 | 5.337 | 5.337 | 0.000 | 97 | 196844 | 20.0 | 20.8 | |
| 61 n-Heptane | 57 | 5.402 | 5.402 | 0.000 | 96 | 47662 | 20.0 | 20.9 | |
| * 62 Fluorobenzene | 96 | 5.566 | 5.566 | 0.000 | 98 | 988232 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.919 | 5.919 | 0.000 | 91 | 91915 | 500.0 | 555.2 | |
| 64 Trichloroethene | 95 | 5.966 | 5.966 | 0.000 | 96 | 141453 | 20.0 | 19.9 | |
| 66 Methylcyclohexane | 83 | 6.112 | 6.112 | 0.000 | 86 | 121766 | 20.0 | 20.1 | |
| 65 Ethyl acrylate | 55 | 6.118 | 6.118 | 0.000 | 96 | 273589 | 20.0 | 20.4 | |
| 67 1,2-Dichloropropane | 63 | 6.312 | 6.312 | 0.000 | 91 | 145770 | 20.0 | 20.3 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.371 | 6.371 | 0.000 | 88 | 56965 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.400 | 6.400 | 0.000 | 91 | 86369 | 40.0 | 38.9 | |
| 70 1,4-Dioxane | 88 | 6.436 | 6.436 | 0.000 | 84 | 35133 | 400.0 | 464.7 | |
| 72 Dibromomethane | 93 | 6.453 | 6.453 | 0.000 | 93 | 90405 | 20.0 | 19.3 | |
| 71 n-Propyl acetate | 43 | 6.465 | 6.465 | 0.000 | 99 | 209423 | 20.0 | 21.0 | |
| 73 Dichlorobromomethane | 83 | 6.630 | 6.630 | 0.000 | 99 | 193554 | 20.0 | 20.6 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.017 | 7.017 | 0.000 | 77 | 101750 | 20.0 | 19.8 | |
| 75 2-Nitropropane | 41 | 7.017 | 7.017 | 0.000 | 81 | 74297 | 40.0 | 44.6 | |
| 76 Epichlorohydrin | 57 | 7.135 | 7.135 | 0.000 | 99 | 314377 | 400.0 | 396.4 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.194 | 7.194 | 0.000 | 91 | 246380 | 20.0 | 20.2 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.387 | 7.387 | 0.000 | 96 | 658446 | 100.0 | 100.9 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.470 | 7.470 | 0.000 | 100 | 1100042 | 50.0 | 50.4 | |
| 80 Toluene | 91 | 7.552 | 7.552 | 0.000 | 93 | 602660 | 20.0 | 20.2 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.940 | 7.940 | 0.000 | 96 | 226150 | 20.0 | 20.5 | |
| 82 Ethyl methacrylate | 69 | 7.969 | 7.969 | 0.000 | 88 | 184347 | 20.0 | 19.9 | |
| 83 1,1,2-Trichloroethane | 83 | 8.175 | 8.175 | 0.000 | 95 | 120036 | 20.0 | 19.6 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | 166 | 8.216 | 8.216 | 0.000 | 95 | 145626 | 20.0 | 19.1 | |
| 85 1,3-Dichloropropane | 76 | 8.416 | 8.416 | 0.000 | 94 | 227147 | 20.0 | 19.5 | |
| 86 2-Hexanone | 58 | 8.474 | 8.474 | 0.000 | 97 | 263945 | 100.0 | 86.4 | |
| 87 n-Butyl acetate | 43 | 8.592 | 8.592 | 0.000 | 98 | 226664 | 20.0 | 21.8 | |
| 88 Chlorodibromomethane | 129 | 8.662 | 8.662 | 0.000 | 97 | 167253 | 20.0 | 20.3 | |
| 89 Ethylene Dibromide | 107 | 8.833 | 8.833 | 0.000 | 99 | 138863 | 20.0 | 18.4 | |
| * 90 Chlorobenzene-d5 | 117 | 9.391 | 9.391 | 0.000 | 84 | 898627 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.426 | 9.426 | 0.000 | 95 | 408537 | 20.0 | 19.6 | |
| 92 Ethylbenzene | 106 | 9.508 | 9.508 | 0.000 | 98 | 195938 | 20.0 | 18.6 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.526 | 9.526 | 0.000 | 94 | 150395 | 20.0 | 19.6 | |
| 94 m-Xylene & p-Xylene | 106 | 9.650 | 9.650 | 0.000 | 96 | 253592 | 20.0 | 19.8 | |
| 95 n-Butyl acrylate | 73 | 10.031 | 10.031 | 0.000 | 97 | 106673 | 20.0 | 17.3 | |
| 96 o-Xylene | 106 | 10.055 | 10.055 | 0.000 | 94 | 254468 | 20.0 | 18.9 | |
| 97 Styrene | 104 | 10.084 | 10.084 | 0.000 | 96 | 447843 | 20.0 | 20.0 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.243 | 10.243 | 0.000 | 90 | 266628 | 20.0 | 21.7 | |
| 99 Bromoform | 173 | 10.284 | 10.284 | 0.000 | 98 | 116486 | 20.0 | 18.0 | |
| 100 Isopropylbenzene | 105 | 10.384 | 10.384 | 0.000 | 95 | 557279 | 20.0 | 21.9 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.560 | 10.560 | 0.000 | 94 | 378458 | 50.0 | 48.3 | |
| 102 Bromobenzene | 156 | 10.678 | 10.678 | 0.000 | 93 | 185829 | 20.0 | 18.2 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.707 | 10.707 | 0.000 | 98 | 195942 | 20.0 | 20.0 | |
| 104 N-Propylbenzene | 91 | 10.731 | 10.731 | 0.000 | 100 | 633407 | 20.0 | 21.1 | |
| 105 1,2,3-Trichloropropane | 110 | 10.754 | 10.754 | 0.000 | 96 | 54171 | 20.0 | 18.7 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.760 | 10.760 | 0.000 | 91 | 58498 | 20.0 | 21.0 | |
| 107 4-Ethyltoluene | 105 | 10.819 | 10.819 | 0.000 | 97 | 560006 | 20.0 | 22.3 | |
| 108 2-Chlorotoluene | 91 | 10.825 | 10.825 | 0.000 | 96 | 479843 | 20.0 | 21.3 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.872 | 10.872 | 0.000 | 94 | 465994 | 20.0 | 21.6 | |
| 110 4-Chlorotoluene | 91 | 10.913 | 10.913 | 0.000 | 96 | 453476 | 20.0 | 21.3 | |
| 111 Butyl Methacrylate | 87 | 10.942 | 10.942 | 0.000 | 91 | 208110 | 20.0 | 19.4 | |
| 112 tert-Butylbenzene | 119 | 11.107 | 11.107 | 0.000 | 96 | 361146 | 20.0 | 21.1 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.154 | 11.154 | 0.000 | 97 | 496742 | 20.0 | 21.4 | |
| 114 sec-Butylbenzene | 105 | 11.265 | 11.265 | 0.000 | 99 | 489180 | 20.0 | 22.0 | |
| 115 4-Isopropyltoluene | 119 | 11.365 | 11.365 | 0.000 | 98 | 451530 | 20.0 | 22.1 | |
| 116 1,3-Dichlorobenzene | 146 | 11.377 | 11.377 | 0.000 | 96 | 323748 | 20.0 | 19.9 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.430 | 11.430 | 0.000 | 94 | 520986 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.442 | 11.442 | 0.000 | 96 | 336800 | 20.0 | 20.0 | |
| 119 Benzyl chloride | 91 | 11.541 | 11.541 | 0.000 | 99 | 380256 | 20.0 | 21.6 | |
| 120 2,3-Dihydroindene | 117 | 11.588 | 11.588 | 0.000 | 95 | 624632 | 20.0 | 20.0 | |
| 121 p-Diethylbenzene | 119 | 11.618 | 11.618 | 0.000 | 97 | 287896 | 20.0 | 22.7 | |
| 122 n-Butylbenzene | 91 | 11.635 | 11.635 | 0.000 | 93 | 464381 | 20.0 | 22.5 | |
| 123 1,2-Dichlorobenzene | 146 | 11.700 | 11.700 | 0.000 | 97 | 330463 | 20.0 | 19.9 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.141 | 12.141 | 0.000 | 98 | 459971 | 20.0 | 22.9 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.235 | 12.235 | 0.000 | 95 | 35204 | 20.0 | 19.4 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.329 | 12.329 | 0.000 | 97 | 208458 | 20.0 | 21.1 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.787 | 12.787 | 0.000 | 93 | 190439 | 20.0 | 20.7 | |
| 128 Hexachlorobutadiene | 225 | 12.852 | 12.852 | 0.000 | 96 | 90670 | 20.0 | 21.9 | |
| 129 Naphthalene | 128 | 12.999 | 12.999 | 0.000 | 99 | 469518 | 20.0 | 21.4 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.181 | 13.181 | 0.000 | 96 | 156246 | 20.0 | 20.5 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 38.9 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 38.7 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 98.3 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GASES Li_00150 | Amount Added: | 20.00 | Units: uL | |
| 8260MIX1COMB_00035 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00050 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

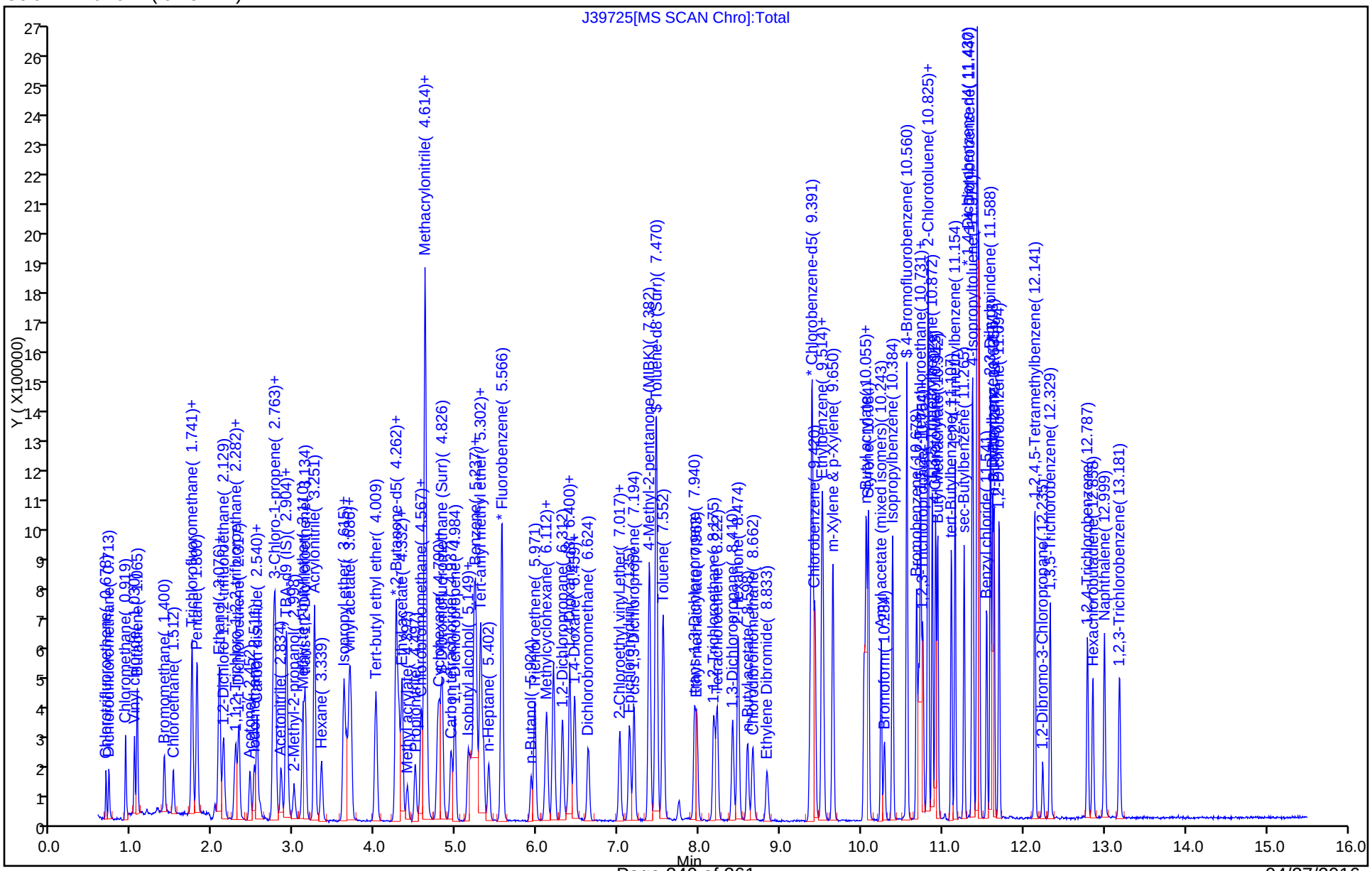
Report Date: 26-Apr-2016 12:25:01 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39725.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 09:54:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | LCS | | | Worklist Smp#: | 3 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 2 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-364590/4

Matrix: Water | Lab File ID: J39700.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/25/2016 22:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 21.7 | | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.1 | | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 20.0 | | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 21.2 | | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 20.7 | | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 22.2 | | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 21.8 | | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.2 | | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 20.1 | | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 21.2 | | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 21.5 | | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 20.8 | | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 21.0 | | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 21.0 | | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 432 | | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 91.2 | | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 91.0 | | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 106 | | 5.0 | 0.63 |
| 67-64-1 | Acetone | 93.5 | | 5.0 | 1.1 |
| 71-43-2 | Benzene | 22.0 | | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 20.3 | | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 21.2 | | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 19.4 | | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 19.8 | | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 21.8 | | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 22.9 | | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 21.1 | | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 21.0 | | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 21.8 | | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 21.7 | | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 18.9 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.6 | | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 24.7 | | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 20.6 | | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 25.5 | | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 19.2 | | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-364590/4

Matrix: Water | Lab File ID: J39700.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/25/2016 22:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364590 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 24.8 | | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 22.6 | | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 20.4 | | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 126 | | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 25.4 | | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 20.3 | | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 22.1 | | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 20.2 | | 1.0 | 0.32 |
| 100-42-5 | Styrene | 21.2 | | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 20.1 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 21.4 | | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 19.7 | | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 21.4 | | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 21.0 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 23.1 | | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 22.3 | | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 97 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39700.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 25-Apr-2016 22:25:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0040266-004
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 10:41:08 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: starzecm Date: 25-Apr-2016 22:55:14

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.666 | 0.666 | 0.000 | 93 | 15505 | 20.0 | 21.6 | |
| 2 Dichlorodifluoromethane | 85 | 0.701 | 0.701 | 0.000 | 99 | 160369 | 20.0 | 25.5 | |
| 3 Chloromethane | 50 | 0.907 | 0.907 | 0.000 | 98 | 176548 | 20.0 | 21.7 | |
| 4 Vinyl chloride | 62 | 1.018 | 1.018 | 0.000 | 98 | 182491 | 20.0 | 22.3 | |
| 5 Butadiene | 54 | 1.048 | 1.048 | 0.000 | 97 | 144700 | 20.0 | 22.2 | |
| 6 Bromomethane | 94 | 1.383 | 1.383 | 0.000 | 98 | 107761 | 20.0 | 19.8 | |
| 7 Chloroethane | 64 | 1.488 | 1.488 | 0.000 | 99 | 109360 | 20.0 | 21.0 | |
| 8 Dichlorofluoromethane | 67 | 1.723 | 1.723 | 0.000 | 96 | 274891 | 20.0 | 21.9 | |
| 9 Trichlorofluoromethane | 101 | 1.723 | 1.723 | 0.000 | 80 | 217481 | 20.0 | 23.1 | |
| 10 Pentane | 72 | 1.782 | 1.782 | 0.000 | 96 | 37048 | 40.0 | 43.4 | |
| 11 Ethanol | 46 | 2.005 | 2.005 | 0.000 | 90 | 27820 | 800.0 | 1002.9 | |
| 12 Ethyl ether | 59 | 2.052 | 2.052 | 0.000 | 85 | 106684 | 20.0 | 20.0 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.064 | 2.064 | 0.000 | 94 | 119153 | 20.0 | 24.0 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.117 | 2.117 | 0.000 | 84 | 113581 | 20.0 | 21.9 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.258 | 2.258 | 0.000 | 97 | 121061 | 20.0 | 24.8 | |
| 16 Acrolein | 56 | 2.270 | 2.270 | 0.000 | 70 | 51800 | 40.0 | 38.1 | |
| 17 1,1-Dichloroethene | 96 | 2.305 | 2.305 | 0.000 | 97 | 122000 | 20.0 | 20.7 | |
| 18 Acetone | 43 | 2.440 | 2.440 | 0.000 | 86 | 204626 | 100.0 | 93.5 | |
| 19 Iodomethane | 142 | 2.493 | 2.493 | 0.000 | 98 | 193434 | 20.0 | 19.5 | |
| 20 Carbon disulfide | 76 | 2.528 | 2.528 | 0.000 | 98 | 449709 | 20.0 | 21.8 | |
| 21 Isopropyl alcohol | 45 | 2.558 | 2.558 | 0.000 | 98 | 83314 | 200.0 | 235.0 | |
| 22 3-Chloro-1-propene | 76 | 2.722 | 2.722 | 0.000 | 79 | 79941 | 20.0 | 21.4 | |
| 24 Cyclopentene | 67 | 2.740 | 2.740 | 0.000 | 94 | 343050 | 20.0 | 23.6 | |
| 23 Methyl acetate | 43 | 2.752 | 2.752 | 0.000 | 99 | 547735 | 100.0 | 126.0 | |
| 25 Acetonitrile | 41 | 2.828 | 2.828 | 0.000 | 97 | 188752 | 200.0 | 219.7 | |
| 27 Methylene Chloride | 84 | 2.881 | 2.881 | 0.000 | 93 | 146160 | 20.0 | 20.3 | |
| * 26 TBA-d9 (IS) | 65 | 2.898 | 2.898 | 0.000 | 95 | 433400 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.987 | 2.987 | 0.000 | 99 | 139247 | 200.0 | 225.6 | |
| 29 Methyl tert-butyl ether | 73 | 3.098 | 3.098 | 0.000 | 97 | 401886 | 20.0 | 22.1 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.122 | 3.122 | 0.000 | 95 | 138155 | 20.0 | 19.7 | |
| 31 Acrylonitrile | 53 | 3.233 | 3.233 | 0.000 | 95 | 566688 | 200.0 | 209.9 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 32 Hexane | 57 | 3.321 | 3.321 | 0.000 | 89 | 104579 | 20.0 | 21.8 | |
| 33 Isopropyl ether | 45 | 3.598 | 3.598 | 0.000 | 95 | 435219 | 20.0 | 23.5 | |
| 34 1,1-Dichloroethane | 63 | 3.633 | 3.633 | 0.000 | 99 | 264184 | 20.0 | 21.2 | |
| 35 Vinyl acetate | 43 | 3.662 | 3.662 | 0.000 | 100 | 469053 | 40.0 | 44.5 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.686 | 3.686 | 0.000 | 92 | 126922 | 20.0 | 22.7 | |
| 37 Tert-butyl ethyl ether | 59 | 3.991 | 3.991 | 0.000 | 89 | 423447 | 20.0 | 21.7 | |
| 39 2,2-Dichloropropane | 79 | 4.244 | 4.244 | 0.000 | 68 | 65867 | 20.0 | 21.3 | |
| * 38 2-Butanone-d5 | 46 | 4.244 | 4.244 | 0.000 | 96 | 526547 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.279 | 4.279 | 0.000 | 97 | 155310 | 20.0 | 18.9 | |
| 42 Ethyl acetate | 43 | 4.314 | 4.314 | 0.000 | 95 | 611077 | 40.0 | 43.0 | |
| 41 2-Butanone (MEK) | 72 | 4.314 | 4.314 | 0.000 | 96 | 89015 | 100.0 | 91.2 | |
| 43 Methyl acrylate | 55 | 4.379 | 4.379 | 0.000 | 100 | 140248 | 20.0 | 22.1 | |
| 44 Propionitrile | 54 | 4.479 | 4.479 | 0.000 | 97 | 220995 | 200.0 | 203.4 | |
| 45 Tetrahydrofuran | 72 | 4.555 | 4.555 | 0.000 | 72 | 36216 | 40.0 | 32.7 | |
| 46 Chlorobromomethane | 128 | 4.555 | 4.555 | 0.000 | 89 | 83078 | 20.0 | 20.3 | |
| 47 Methacrylonitrile | 67 | 4.602 | 4.602 | 0.000 | 93 | 644565 | 200.0 | 219.8 | |
| 48 Chloroform | 83 | 4.614 | 4.614 | 0.000 | 98 | 253123 | 20.0 | 21.8 | |
| 49 Cyclohexane | 56 | 4.761 | 4.761 | 0.000 | 91 | 182025 | 20.0 | 24.7 | |
| 50 1,1,1-Trichloroethane | 97 | 4.784 | 4.784 | 0.000 | 99 | 204894 | 20.0 | 21.7 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.814 | 4.814 | 0.000 | 97 | 262323 | 50.0 | 50.0 | |
| 52 Carbon tetrachloride | 117 | 4.925 | 4.925 | 0.000 | 99 | 179462 | 20.0 | 22.9 | |
| 53 1,1-Dichloropropene | 75 | 4.967 | 4.967 | 0.000 | 97 | 194590 | 20.0 | 21.9 | |
| 54 Isobutyl alcohol | 43 | 5.131 | 5.131 | 0.000 | 97 | 188705 | 500.0 | 617.9 | |
| 55 Isooctane | 57 | 5.166 | 5.166 | 0.000 | 91 | 257982 | 20.0 | 29.7 | |
| 56 Benzene | 78 | 5.207 | 5.207 | 0.000 | 96 | 585067 | 20.0 | 22.0 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.231 | 5.231 | 0.000 | 96 | 319469 | 50.0 | 54.8 | |
| 59 Tert-amyl methyl ether | 73 | 5.284 | 5.284 | 0.000 | 95 | 407487 | 20.0 | 20.9 | |
| 58 Isopropyl acetate | 43 | 5.284 | 5.284 | 0.000 | 96 | 396918 | 20.0 | 22.5 | |
| 60 1,2-Dichloroethane | 62 | 5.319 | 5.319 | 0.000 | 96 | 201429 | 20.0 | 21.5 | |
| 61 n-Heptane | 57 | 5.390 | 5.390 | 0.000 | 91 | 54127 | 20.0 | 24.0 | |
| * 62 Fluorobenzene | 96 | 5.548 | 5.548 | 0.000 | 99 | 976407 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.913 | 5.913 | 0.000 | 93 | 92331 | 500.0 | 544.2 | |
| 64 Trichloroethene | 95 | 5.954 | 5.954 | 0.000 | 95 | 147303 | 20.0 | 21.0 | |
| 66 Methylcyclohexane | 83 | 6.089 | 6.089 | 0.000 | 84 | 151631 | 20.0 | 25.4 | |
| 65 Ethyl acrylate | 55 | 6.106 | 6.106 | 0.000 | 98 | 298659 | 20.0 | 22.5 | |
| 67 1,2-Dichloropropane | 63 | 6.289 | 6.289 | 0.000 | 89 | 147057 | 20.0 | 20.8 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.359 | 6.359 | 0.000 | 90 | 63920 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.388 | 6.388 | 0.000 | 92 | 85128 | 40.0 | 38.8 | |
| 70 1,4-Dioxane | 88 | 6.430 | 6.430 | 0.000 | 83 | 36614 | 400.0 | 431.6 | |
| 72 Dibromomethane | 93 | 6.441 | 6.441 | 0.000 | 93 | 90592 | 20.0 | 19.6 | |
| 71 n-Propyl acetate | 43 | 6.453 | 6.453 | 0.000 | 100 | 210312 | 20.0 | 21.3 | |
| 73 Dichlorobromomethane | 83 | 6.612 | 6.612 | 0.000 | 99 | 196583 | 20.0 | 21.2 | |
| 74 2-Chloroethyl vinyl ether | 63 | 6.999 | 6.999 | 0.000 | 83 | 106786 | 20.0 | 21.0 | |
| 75 2-Nitropropane | 41 | 7.005 | 7.005 | 0.000 | 81 | 79400 | 40.0 | 48.2 | |
| 76 Epichlorohydrin | 57 | 7.123 | 7.123 | 0.000 | 99 | 323435 | 400.0 | 408.6 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.182 | 7.182 | 0.000 | 93 | 260167 | 20.0 | 21.6 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.364 | 7.364 | 0.000 | 96 | 693014 | 100.0 | 106.4 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.452 | 7.452 | 0.000 | 100 | 1077454 | 50.0 | 50.1 | |
| 80 Toluene | 91 | 7.540 | 7.540 | 0.000 | 93 | 629305 | 20.0 | 21.4 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.928 | 7.928 | 0.000 | 98 | 232763 | 20.0 | 21.4 | |
| 82 Ethyl methacrylate | 69 | 7.957 | 7.957 | 0.000 | 91 | 190567 | 20.0 | 20.8 | |
| 83 1,1,2-Trichloroethane | 83 | 8.163 | 8.163 | 0.000 | 96 | 120971 | 20.0 | 20.0 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | 166 | 8.204 | 8.204 | 0.000 | 95 | 150781 | 20.0 | 20.1 | |
| 85 1,3-Dichloropropane | 76 | 8.392 | 8.392 | 0.000 | 95 | 233933 | 20.0 | 20.3 | |
| 86 2-Hexanone | 58 | 8.462 | 8.462 | 0.000 | 96 | 277453 | 100.0 | 91.0 | |
| 87 n-Butyl acetate | 43 | 8.586 | 8.586 | 0.000 | 98 | 230919 | 20.0 | 22.5 | |
| 88 Chlorodibromomethane | 129 | 8.645 | 8.645 | 0.000 | 97 | 167945 | 20.0 | 20.6 | |
| 89 Ethylene Dibromide | 107 | 8.821 | 8.821 | 0.000 | 99 | 149657 | 20.0 | 20.1 | |
| * 90 Chlorobenzene-d5 | 117 | 9.379 | 9.379 | 0.000 | 84 | 885975 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.414 | 9.414 | 0.000 | 96 | 431743 | 20.0 | 21.1 | |
| 92 Ethylbenzene | 106 | 9.502 | 9.502 | 0.000 | 98 | 199220 | 20.0 | 19.2 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.514 | 9.514 | 0.000 | 96 | 151166 | 20.0 | 20.0 | |
| 94 m-Xylene & p-Xylene | 106 | 9.638 | 9.638 | 0.000 | 96 | 256771 | 20.0 | 20.4 | |
| 95 n-Butyl acrylate | 73 | 10.025 | 10.025 | 0.000 | 96 | 118473 | 20.0 | 19.5 | |
| 96 o-Xylene | 106 | 10.049 | 10.049 | 0.000 | 95 | 268765 | 20.0 | 20.2 | |
| 97 Styrene | 104 | 10.072 | 10.072 | 0.000 | 95 | 467451 | 20.0 | 21.2 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.231 | 10.231 | 0.000 | 91 | 278174 | 20.0 | 22.8 | |
| 99 Bromoform | 173 | 10.272 | 10.272 | 0.000 | 98 | 123796 | 20.0 | 19.4 | |
| 100 Isopropylbenzene | 105 | 10.372 | 10.372 | 0.000 | 96 | 566883 | 20.0 | 22.6 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.554 | 10.554 | 0.000 | 97 | 376163 | 50.0 | 48.7 | |
| 102 Bromobenzene | 156 | 10.672 | 10.672 | 0.000 | 95 | 201576 | 20.0 | 19.9 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.701 | 10.701 | 0.000 | 98 | 195923 | 20.0 | 20.1 | |
| 104 N-Propylbenzene | 91 | 10.719 | 10.719 | 0.000 | 99 | 662591 | 20.0 | 22.2 | |
| 105 1,2,3-Trichloropropane | 110 | 10.742 | 10.742 | 0.000 | 98 | 62767 | 20.0 | 21.8 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.754 | 10.754 | 0.000 | 84 | 61315 | 20.0 | 22.1 | |
| 107 4-Ethyltoluene | 105 | 10.813 | 10.813 | 0.000 | 89 | 573638 | 20.0 | 23.0 | |
| 108 2-Chlorotoluene | 91 | 10.813 | 10.813 | 0.000 | 92 | 500244 | 20.0 | 22.4 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.866 | 10.866 | 0.000 | 93 | 487126 | 20.0 | 22.8 | |
| 110 4-Chlorotoluene | 91 | 10.907 | 10.907 | 0.000 | 96 | 475165 | 20.0 | 22.5 | |
| 111 Butyl Methacrylate | 87 | 10.936 | 10.936 | 0.000 | 91 | 222363 | 20.0 | 20.9 | |
| 112 tert-Butylbenzene | 119 | 11.101 | 11.101 | 0.000 | 96 | 364305 | 20.0 | 21.5 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.148 | 11.148 | 0.000 | 97 | 526010 | 20.0 | 22.8 | |
| 114 sec-Butylbenzene | 105 | 11.259 | 11.259 | 0.000 | 99 | 522557 | 20.0 | 23.6 | |
| 115 4-Isopropyltoluene | 119 | 11.359 | 11.359 | 0.000 | 98 | 477242 | 20.0 | 23.5 | |
| 116 1,3-Dichlorobenzene | 146 | 11.371 | 11.371 | 0.000 | 97 | 340679 | 20.0 | 21.0 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.418 | 11.418 | 0.000 | 93 | 517901 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.435 | 11.435 | 0.000 | 95 | 351206 | 20.0 | 21.0 | |
| 119 Benzyl chloride | 91 | 11.535 | 11.535 | 0.000 | 99 | 383671 | 20.0 | 21.9 | |
| 120 2,3-Dihydroindene | 117 | 11.582 | 11.582 | 0.000 | 94 | 657418 | 20.0 | 21.2 | |
| 121 p-Diethylbenzene | 119 | 11.612 | 11.612 | 0.000 | 94 | 290359 | 20.0 | 23.0 | |
| 122 n-Butylbenzene | 91 | 11.629 | 11.629 | 0.000 | 98 | 482797 | 20.0 | 23.5 | |
| 123 1,2-Dichlorobenzene | 146 | 11.688 | 11.688 | 0.000 | 97 | 349835 | 20.0 | 21.2 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.129 | 12.129 | 0.000 | 97 | 486977 | 20.0 | 24.3 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.229 | 12.229 | 0.000 | 96 | 36495 | 20.0 | 20.2 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.317 | 12.317 | 0.000 | 96 | 220356 | 20.0 | 22.4 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.781 | 12.781 | 0.000 | 93 | 199950 | 20.0 | 21.8 | |
| 128 Hexachlorobutadiene | 225 | 12.846 | 12.846 | 0.000 | 97 | 101156 | 20.0 | 24.6 | |
| 129 Naphthalene | 128 | 12.987 | 12.987 | 0.000 | 99 | 502628 | 20.0 | 23.0 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.175 | 13.175 | 0.000 | 94 | 167909 | 20.0 | 22.2 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 38.7 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 40.6 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 103.1 | |

## Reagents:

| | | | | |
|---|---|---|---|---|
| GASES Li_00150 | Amount Added: | 20.00 | Units: uL | |
| 8260MIX1COMB_00035 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00050 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

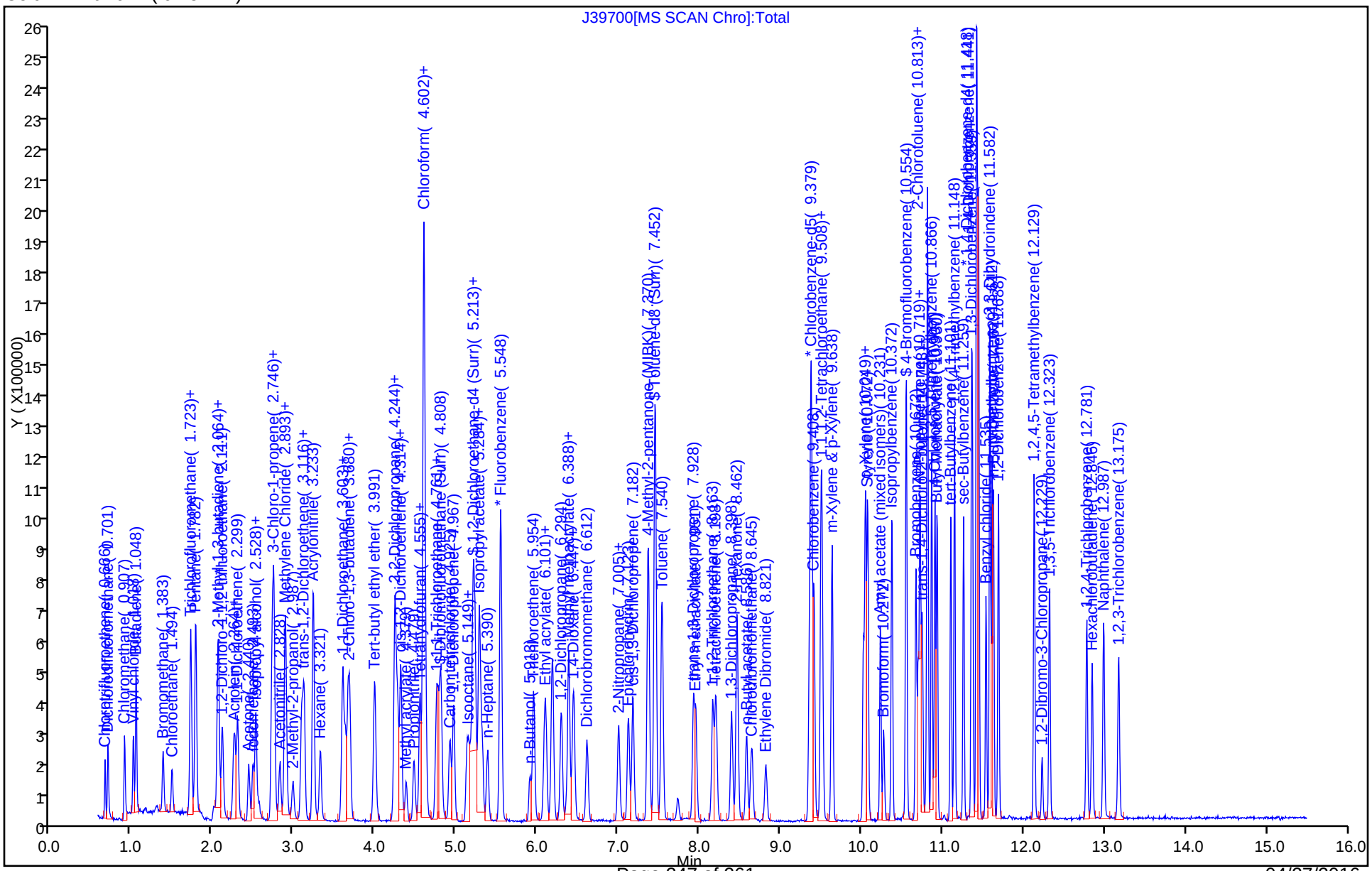
Report Date: 26-Apr-2016 10:41:09 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160425-40266.b\J39700.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 25-Apr-2016 22:25:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | LCSD | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-364733/4

Matrix: Water | Lab File ID: J39726.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 22.7 | | 1.0 | 0.28 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.6 | | 1.0 | 0.19 |
| 79-00-5 | 1,1,2-Trichloroethane | 19.9 | | 1.0 | 0.080 |
| 75-34-3 | 1,1-Dichloroethane | 22.6 | | 1.0 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 22.0 | | 1.0 | 0.34 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 23.9 | | 1.0 | 0.35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 22.0 | | 1.0 | 0.27 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.3 | | 1.0 | 0.23 |
| 106-93-4 | 1,2-Dibromoethane | 20.1 | | 1.0 | 0.19 |
| 95-50-1 | 1,2-Dichlorobenzene | 21.6 | | 1.0 | 0.22 |
| 107-06-2 | 1,2-Dichloroethane | 21.5 | | 1.0 | 0.25 |
| 78-87-5 | 1,2-Dichloropropane | 21.9 | | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 21.7 | | 1.0 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 21.4 | | 1.0 | 0.33 |
| 123-91-1 | 1,4-Dioxane | 421 | | 50 | 8.7 |
| 78-93-3 | 2-Butanone | 95.5 | | 5.0 | 2.2 |
| 591-78-6 | 2-Hexanone | 98.0 | | 5.0 | 0.72 |
| 108-10-1 | 4-Methyl-2-pentanone | 115 | | 5.0 | 0.63 |
| 67-64-1 | Acetone | 102 | | 5.0 | 1.1 |
| 71-43-2 | Benzene | 22.5 | | 1.0 | 0.090 |
| 74-97-5 | Bromochloromethane | 20.5 | | 1.0 | 0.30 |
| 75-27-4 | Bromodichloromethane | 21.8 | | 1.0 | 0.15 |
| 75-25-2 | Bromoform | 19.2 | | 1.0 | 0.18 |
| 74-83-9 | Bromomethane | 21.0 | | 1.0 | 0.18 |
| 75-15-0 | Carbon disulfide | 23.2 | | 1.0 | 0.22 |
| 56-23-5 | Carbon tetrachloride | 22.6 | | 1.0 | 0.33 |
| 108-90-7 | Chlorobenzene | 21.6 | | 1.0 | 0.24 |
| 75-00-3 | Chloroethane | 20.8 | | 1.0 | 0.37 |
| 67-66-3 | Chloroform | 22.4 | | 1.0 | 0.22 |
| 74-87-3 | Chloromethane | 23.2 | | 1.0 | 0.22 |
| 156-59-2 | cis-1,2-Dichloroethene | 20.5 | | 1.0 | 0.26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 22.2 | | 1.0 | 0.16 |
| 110-82-7 | Cyclohexane | 23.0 | | 1.0 | 0.26 |
| 124-48-1 | Dibromochloromethane | 21.1 | | 1.0 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 18.3 | | 1.0 | 0.14 |
| 100-41-4 | Ethylbenzene | 21.0 | | 1.0 | 0.30 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-112643-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-364733/4

Matrix: Water | Lab File ID: J39726.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/26/2016 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 364733 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 76-13-1 | Freon TF | 22.7 | | 1.0 | 0.34 |
| 98-82-8 | Isopropylbenzene | 23.5 | | 1.0 | 0.32 |
| 179601-23-1 | m&p-Xylene | 21.3 | | 1.0 | 0.28 |
| 79-20-9 | Methyl acetate | 129 | | 5.0 | 0.58 |
| 108-87-2 | Methylcyclohexane | 20.7 | | 1.0 | 0.22 |
| 75-09-2 | Methylene Chloride | 21.5 | | 1.0 | 0.21 |
| 1634-04-4 | MTBE | 22.6 | | 1.0 | 0.13 |
| 95-47-6 | o-Xylene | 21.1 | | 1.0 | 0.32 |
| 100-42-5 | Styrene | 22.1 | | 1.0 | 0.17 |
| 127-18-4 | Tetrachloroethene | 20.4 | | 1.0 | 0.12 |
| 108-88-3 | Toluene | 22.0 | | 1.0 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 21.4 | | 1.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 21.8 | | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 21.7 | | 1.0 | 0.22 |
| 75-69-4 | Trichlorofluoromethane | 23.1 | | 1.0 | 0.15 |
| 75-01-4 | Vinyl chloride | 22.0 | | 1.0 | 0.060 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 113 | | 70-130 |
| 460-00-4 | Bromofluorobenzene | 103 | | 70-130 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 107 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 107 | | 70-130 |

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39726.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 26-Apr-2016 10:21:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0040302-004
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 26-Apr-2016 12:25:52 Calib Date: 29-Mar-2016 08:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20160328-39111.b\J38335.D

Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: delpolitov Date: 26-Apr-2016 12:25:52

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Chlorotrifluoroethene | 66 | 0.676 | 0.676 | 0.000 | 95 | 15035 | 20.0 | 22.0 | M |
| 2 Dichlorodifluoromethane | 85 | 0.705 | 0.705 | 0.000 | 99 | 109330 | 20.0 | 18.3 | |
| 3 Chloromethane | 50 | 0.911 | 0.911 | 0.000 | 100 | 180363 | 20.0 | 23.2 | |
| 4 Vinyl chloride | 62 | 1.023 | 1.023 | 0.000 | 98 | 171544 | 20.0 | 22.0 | |
| 5 Butadiene | 54 | 1.058 | 1.058 | 0.000 | 98 | 137409 | 20.0 | 22.1 | |
| 6 Bromomethane | 94 | 1.393 | 1.393 | 0.000 | 97 | 108920 | 20.0 | 21.0 | |
| 7 Chloroethane | 64 | 1.504 | 1.504 | 0.000 | 99 | 103209 | 20.0 | 20.8 | |
| 8 Dichlorofluoromethane | 67 | 1.733 | 1.733 | 0.000 | 96 | 278055 | 20.0 | 23.2 | |
| 9 Trichlorofluoromethane | 101 | 1.733 | 1.733 | 0.000 | 75 | 207278 | 20.0 | 23.1 | |
| 10 Pentane | 72 | 1.792 | 1.792 | 0.000 | 96 | 31748 | 40.0 | 40.5 | |
| 11 Ethanol | 46 | 2.010 | 2.010 | 0.000 | 94 | 28197 | 800.0 | 1106.7 | |
| 12 Ethyl ether | 59 | 2.062 | 2.062 | 0.000 | 96 | 116340 | 20.0 | 22.9 | |
| 13 2-Methyl-1,3-butadiene | 53 | 2.074 | 2.074 | 0.000 | 93 | 113327 | 20.0 | 24.0 | |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.121 | 2.121 | 0.000 | 93 | 109459 | 20.0 | 22.1 | |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.274 | 2.274 | 0.000 | 98 | 105590 | 20.0 | 22.7 | |
| 16 Acrolein | 56 | 2.286 | 2.286 | 0.000 | 96 | 49908 | 40.0 | 40.0 | |
| 17 1,1-Dichloroethene | 96 | 2.309 | 2.309 | 0.000 | 96 | 123864 | 20.0 | 22.0 | |
| 18 Acetone | 43 | 2.450 | 2.450 | 0.000 | 88 | 204485 | 100.0 | 102.1 | |
| 19 Iodomethane | 142 | 2.503 | 2.503 | 0.000 | 97 | 207820 | 20.0 | 22.0 | |
| 20 Carbon disulfide | 76 | 2.538 | 2.538 | 0.000 | 99 | 456604 | 20.0 | 23.2 | |
| 21 Isopropyl alcohol | 45 | 2.574 | 2.574 | 0.000 | 99 | 66383 | 200.0 | 203.9 | |
| 22 3-Chloro-1-propene | 76 | 2.732 | 2.732 | 0.000 | 88 | 77825 | 20.0 | 21.9 | |
| 24 Cyclopentene | 67 | 2.750 | 2.750 | 0.000 | 92 | 326577 | 20.0 | 23.6 | |
| 23 Methyl acetate | 43 | 2.762 | 2.762 | 0.000 | 99 | 534896 | 100.0 | 129.1 | |
| 25 Acetonitrile | 41 | 2.838 | 2.838 | 0.000 | 99 | 173821 | 200.0 | 220.3 | |
| 27 Methylene Chloride | 84 | 2.897 | 2.897 | 0.000 | 95 | 147512 | 20.0 | 21.5 | |
| * 26 TBA-d9 (IS) | 65 | 2.903 | 2.903 | 0.000 | 95 | 398066 | 1000.0 | 1000.0 | |
| 28 2-Methyl-2-propanol | 59 | 2.997 | 2.997 | 0.000 | 99 | 131616 | 200.0 | 232.4 | |
| 29 Methyl tert-butyl ether | 73 | 3.108 | 3.108 | 0.000 | 97 | 392907 | 20.0 | 22.6 | |
| 30 trans-1,2-Dichloroethene | 96 | 3.138 | 3.138 | 0.000 | 96 | 143119 | 20.0 | 21.4 | |
| 31 Acrylonitrile | 53 | 3.243 | 3.243 | 0.000 | 95 | 560080 | 200.0 | 225.9 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 32 Hexane | 57 | 3.332 | 3.332 | 0.000 | 94 | 96675 | 20.0 | 21.2 | |
| 33 Isopropyl ether | 45 | 3.614 | 3.614 | 0.000 | 95 | 419480 | 20.0 | 23.8 | |
| 34 1,1-Dichloroethane | 63 | 3.643 | 3.643 | 0.000 | 99 | 267440 | 20.0 | 22.6 | |
| 35 Vinyl acetate | 43 | 3.678 | 3.678 | 0.000 | 100 | 540061 | 40.0 | 53.8 | |
| 36 2-Chloro-1,3-butadiene | 88 | 3.696 | 3.696 | 0.000 | 92 | 123663 | 20.0 | 23.2 | |
| 37 Tert-butyl ethyl ether | 59 | 4.001 | 4.001 | 0.000 | 90 | 418814 | 20.0 | 22.6 | |
| 39 2,2-Dichloropropane | 79 | 4.248 | 4.248 | 0.000 | 85 | 69346 | 20.0 | 23.5 | |
| * 38 2-Butanone-d5 | 46 | 4.254 | 4.254 | 0.000 | 96 | 483026 | 250.0 | 250.0 | |
| 40 cis-1,2-Dichloroethene | 96 | 4.289 | 4.289 | 0.000 | 98 | 159932 | 20.0 | 20.5 | |
| 41 2-Butanone (MEK) | 72 | 4.325 | 4.325 | 0.000 | 96 | 85497 | 100.0 | 95.5 | |
| 42 Ethyl acetate | 43 | 4.330 | 4.330 | 0.000 | 94 | 588598 | 40.0 | 45.1 | |
| 43 Methyl acrylate | 55 | 4.389 | 4.389 | 0.000 | 100 | 131040 | 20.0 | 21.7 | |
| 44 Propionitrile | 54 | 4.489 | 4.489 | 0.000 | 97 | 217576 | 200.0 | 218.0 | |
| 46 Chlorobromomethane | 128 | 4.565 | 4.565 | 0.000 | 86 | 79692 | 20.0 | 20.5 | |
| 45 Tetrahydrofuran | 72 | 4.560 | 4.560 | 0.000 | 64 | 36405 | 40.0 | 35.9 | |
| 47 Methacrylonitrile | 67 | 4.612 | 4.612 | 0.000 | 92 | 632675 | 200.0 | 226.4 | |
| 48 Chloroform | 83 | 4.630 | 4.630 | 0.000 | 97 | 248063 | 20.0 | 22.4 | |
| 49 Cyclohexane | 56 | 4.771 | 4.771 | 0.000 | 91 | 161168 | 20.0 | 23.0 | |
| 50 1,1,1-Trichloroethane | 97 | 4.795 | 4.795 | 0.000 | 99 | 204439 | 20.0 | 22.7 | |
| $ 51 Dibromofluoromethane (Surr | 113 | 4.824 | 4.824 | 0.000 | 97 | 268287 | 50.0 | 53.7 | |
| 52 Carbon tetrachloride | 117 | 4.930 | 4.930 | 0.000 | 99 | 169062 | 20.0 | 22.6 | |
| 53 1,1-Dichloropropene | 75 | 4.977 | 4.977 | 0.000 | 96 | 188669 | 20.0 | 22.3 | |
| 54 Isobutyl alcohol | 43 | 5.141 | 5.141 | 0.000 | 98 | 177274 | 500.0 | 632.0 | |
| 55 Isooctane | 57 | 5.176 | 5.176 | 0.000 | 91 | 222551 | 20.0 | 26.9 | |
| 56 Benzene | 78 | 5.218 | 5.218 | 0.000 | 97 | 569598 | 20.0 | 22.5 | |
| $ 57 1,2-Dichloroethane-d4 (Sur | 65 | 5.247 | 5.247 | 0.000 | 98 | 313963 | 50.0 | 56.5 | |
| 59 Tert-amyl methyl ether | 73 | 5.294 | 5.294 | 0.000 | 79 | 389984 | 20.0 | 21.0 | |
| 58 Isopropyl acetate | 43 | 5.300 | 5.300 | 0.000 | 93 | 396530 | 20.0 | 23.6 | |
| 60 1,2-Dichloroethane | 62 | 5.335 | 5.335 | 0.000 | 92 | 191925 | 20.0 | 21.5 | |
| 61 n-Heptane | 57 | 5.400 | 5.400 | 0.000 | 93 | 46519 | 20.0 | 21.7 | |
| * 62 Fluorobenzene | 96 | 5.558 | 5.558 | 0.000 | 99 | 930418 | 50.0 | 50.0 | |
| 63 n-Butanol | 56 | 5.923 | 5.923 | 0.000 | 88 | 91643 | 500.0 | 588.1 | |
| 64 Trichloroethene | 95 | 5.964 | 5.964 | 0.000 | 96 | 145273 | 20.0 | 21.7 | |
| 66 Methylcyclohexane | 83 | 6.105 | 6.105 | 0.000 | 80 | 117782 | 20.0 | 20.7 | |
| 65 Ethyl acrylate | 55 | 6.117 | 6.117 | 0.000 | 97 | 282535 | 20.0 | 22.4 | |
| 67 1,2-Dichloropropane | 63 | 6.310 | 6.310 | 0.000 | 90 | 148017 | 20.0 | 21.9 | |
| * 68 1,4-Dioxane-d8 | 96 | 6.375 | 6.375 | 0.000 | 58 | 60854 | 1000.0 | 1000.0 | |
| 69 Methyl methacrylate | 100 | 6.404 | 6.404 | 0.000 | 94 | 87569 | 40.0 | 41.8 | |
| 70 1,4-Dioxane | 88 | 6.446 | 6.446 | 0.000 | 32 | 33968 | 400.0 | 420.6 | |
| 72 Dibromomethane | 93 | 6.457 | 6.457 | 0.000 | 91 | 89310 | 20.0 | 20.3 | |
| 71 n-Propyl acetate | 43 | 6.463 | 6.463 | 0.000 | 99 | 213122 | 20.0 | 22.7 | |
| 73 Dichlorobromomethane | 83 | 6.628 | 6.628 | 0.000 | 97 | 192864 | 20.0 | 21.8 | |
| 74 2-Chloroethyl vinyl ether | 63 | 7.016 | 7.016 | 0.000 | 75 | 96199 | 20.0 | 19.9 | |
| 75 2-Nitropropane | 41 | 7.021 | 7.021 | 0.000 | 84 | 75950 | 40.0 | 48.4 | |
| 76 Epichlorohydrin | 57 | 7.139 | 7.139 | 0.000 | 99 | 317515 | 400.0 | 437.3 | |
| 77 cis-1,3-Dichloropropene | 75 | 7.192 | 7.192 | 0.000 | 93 | 254344 | 20.0 | 22.2 | |
| 78 4-Methyl-2-pentanone (MIBK | 43 | 7.380 | 7.380 | 0.000 | 97 | 684342 | 100.0 | 114.5 | |
| $ 79 Toluene-d8 (Surr) | 98 | 7.462 | 7.462 | 0.000 | 100 | 1093779 | 50.0 | 53.4 | |
| 80 Toluene | 91 | 7.550 | 7.550 | 0.000 | 93 | 617051 | 20.0 | 22.0 | |
| 81 trans-1,3-Dichloropropene | 75 | 7.938 | 7.938 | 0.000 | 99 | 225988 | 20.0 | 21.8 | |
| 82 Ethyl methacrylate | 69 | 7.967 | 7.967 | 0.000 | 90 | 185289 | 20.0 | 21.2 | |
| 83 1,1,2-Trichloroethane | 83 | 8.179 | 8.179 | 0.000 | 95 | 114369 | 20.0 | 19.9 | |

| Compound | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | 166 | 8.214 | 8.214 | 0.000 | 96 | 145598 | 20.0 | 20.4 | |
| 85 1,3-Dichloropropane | 76 | 8.408 | 8.408 | 0.000 | 94 | 238696 | 20.0 | 21.8 | |
| 86 2-Hexanone | 58 | 8.478 | 8.478 | 0.000 | 97 | 274078 | 100.0 | 98.0 | |
| 87 n-Butyl acetate | 43 | 8.590 | 8.590 | 0.000 | 99 | 232483 | 20.0 | 23.9 | |
| 88 Chlorodibromomethane | 129 | 8.661 | 8.661 | 0.000 | 96 | 163379 | 20.0 | 21.1 | |
| 89 Ethylene Dibromide | 107 | 8.831 | 8.831 | 0.000 | 99 | 142024 | 20.0 | 20.1 | |
| * 90 Chlorobenzene-d5 | 117 | 9.389 | 9.389 | 0.000 | 85 | 842927 | 50.0 | 50.0 | |
| 91 Chlorobenzene | 112 | 9.424 | 9.424 | 0.000 | 96 | 421126 | 20.0 | 21.6 | |
| 92 Ethylbenzene | 106 | 9.513 | 9.513 | 0.000 | 98 | 207427 | 20.0 | 21.0 | |
| 93 1,1,1,2-Tetrachloroethane | 131 | 9.524 | 9.524 | 0.000 | 95 | 152858 | 20.0 | 21.2 | |
| 94 m-Xylene & p-Xylene | 106 | 9.648 | 9.648 | 0.000 | 96 | 256050 | 20.0 | 21.3 | |
| 95 n-Butyl acrylate | 73 | 10.030 | 10.030 | 0.000 | 98 | 120795 | 20.0 | 20.9 | |
| 96 o-Xylene | 106 | 10.059 | 10.059 | 0.000 | 94 | 266789 | 20.0 | 21.1 | |
| 97 Styrene | 104 | 10.082 | 10.082 | 0.000 | 95 | 463545 | 20.0 | 22.1 | |
| 98 Amyl acetate (mixed isomer | 43 | 10.241 | 10.241 | 0.000 | 91 | 273657 | 20.0 | 23.3 | |
| 99 Bromoform | 173 | 10.282 | 10.282 | 0.000 | 97 | 116415 | 20.0 | 19.2 | |
| 100 Isopropylbenzene | 105 | 10.382 | 10.382 | 0.000 | 96 | 560026 | 20.0 | 23.5 | |
| $ 101 4-Bromofluorobenzene | 174 | 10.558 | 10.558 | 0.000 | 95 | 379569 | 50.0 | 51.6 | |
| 102 Bromobenzene | 156 | 10.682 | 10.682 | 0.000 | 93 | 195728 | 20.0 | 20.1 | |
| 103 1,1,2,2-Tetrachloroethane | 83 | 10.705 | 10.705 | 0.000 | 98 | 193450 | 20.0 | 20.6 | |
| 104 N-Propylbenzene | 91 | 10.729 | 10.729 | 0.000 | 99 | 646379 | 20.0 | 22.5 | |
| 105 1,2,3-Trichloropropane | 110 | 10.752 | 10.752 | 0.000 | 98 | 57440 | 20.0 | 20.7 | |
| 106 trans-1,4-Dichloro-2-buten | 53 | 10.764 | 10.764 | 0.000 | 91 | 58109 | 20.0 | 21.8 | |
| 107 4-Ethyltoluene | 105 | 10.823 | 10.823 | 0.000 | 89 | 565783 | 20.0 | 23.6 | |
| 108 2-Chlorotoluene | 91 | 10.823 | 10.823 | 0.000 | 96 | 479974 | 20.0 | 22.3 | |
| 109 1,3,5-Trimethylbenzene | 105 | 10.870 | 10.870 | 0.000 | 94 | 478217 | 20.0 | 23.2 | |
| 110 4-Chlorotoluene | 91 | 10.911 | 10.911 | 0.000 | 96 | 477429 | 20.0 | 23.5 | |
| 111 Butyl Methacrylate | 87 | 10.940 | 10.940 | 0.000 | 90 | 221949 | 20.0 | 21.7 | |
| 112 tert-Butylbenzene | 119 | 11.111 | 11.111 | 0.000 | 96 | 359071 | 20.0 | 22.0 | |
| 113 1,2,4-Trimethylbenzene | 105 | 11.158 | 11.158 | 0.000 | 97 | 522170 | 20.0 | 23.6 | |
| 114 sec-Butylbenzene | 105 | 11.263 | 11.263 | 0.000 | 99 | 504274 | 20.0 | 23.7 | |
| 115 4-Isopropyltoluene | 119 | 11.363 | 11.363 | 0.000 | 98 | 463234 | 20.0 | 23.7 | |
| 116 1,3-Dichlorobenzene | 146 | 11.375 | 11.375 | 0.000 | 98 | 337466 | 20.0 | 21.7 | |
| * 117 1,4-Dichlorobenzene-d4 | 152 | 11.428 | 11.428 | 0.000 | 94 | 497831 | 50.0 | 50.0 | |
| 118 1,4-Dichlorobenzene | 146 | 11.446 | 11.446 | 0.000 | 96 | 344604 | 20.0 | 21.4 | |
| 119 Benzyl chloride | 91 | 11.545 | 11.545 | 0.000 | 99 | 388820 | 20.0 | 23.1 | |
| 120 2,3-Dihydroindene | 117 | 11.592 | 11.592 | 0.000 | 94 | 651529 | 20.0 | 21.8 | |
| 121 p-Diethylbenzene | 119 | 11.616 | 11.616 | 0.000 | 94 | 286695 | 20.0 | 23.6 | |
| 122 n-Butylbenzene | 91 | 11.634 | 11.634 | 0.000 | 98 | 489750 | 20.0 | 24.8 | |
| 123 1,2-Dichlorobenzene | 146 | 11.698 | 11.698 | 0.000 | 97 | 343065 | 20.0 | 21.6 | |
| 124 1,2,4,5-Tetramethylbenzene | 119 | 12.139 | 12.139 | 0.000 | 97 | 471337 | 20.0 | 24.5 | |
| 125 1,2-Dibromo-3-Chloropropan | 155 | 12.239 | 12.239 | 0.000 | 94 | 36974 | 20.0 | 21.3 | |
| 126 1,3,5-Trichlorobenzene | 180 | 12.327 | 12.327 | 0.000 | 97 | 211455 | 20.0 | 22.4 | |
| 127 1,2,4-Trichlorobenzene | 180 | 12.791 | 12.791 | 0.000 | 94 | 194116 | 20.0 | 22.0 | |
| 128 Hexachlorobutadiene | 225 | 12.856 | 12.856 | 0.000 | 98 | 97681 | 20.0 | 24.7 | |
| 129 Naphthalene | 128 | 12.997 | 12.997 | 0.000 | 99 | 486110 | 20.0 | 23.2 | |
| 130 1,2,3-Trichlorobenzene | 180 | 13.185 | 13.185 | 0.000 | 95 | 174164 | 20.0 | 23.9 | |
| S 131 1,2-Dichloroethene, Total | 100 | | | | 0 | | 40.0 | 41.9 | |
| S 132 Xylenes, Total | 100 | | | | 0 | | 40.0 | 42.5 | |
| S 133 Total BTEX | 1 | | | | 0 | | 100.0 | 107.9 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | | |
|---|---|---|---|---|
| GASES Li_00150 | Amount Added: | 20.00 | Units: uL | |
| 8260MIX1COMB_00035 | Amount Added: | 20.00 | Units: uL | |
| ACROLEIN W_00050 | Amount Added: | 4.00 | Units: uL | |
| 8260ISNEW_00063 | Amount Added: | 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00118 | Amount Added: | 1.00 | Units: uL | Run Reagent |

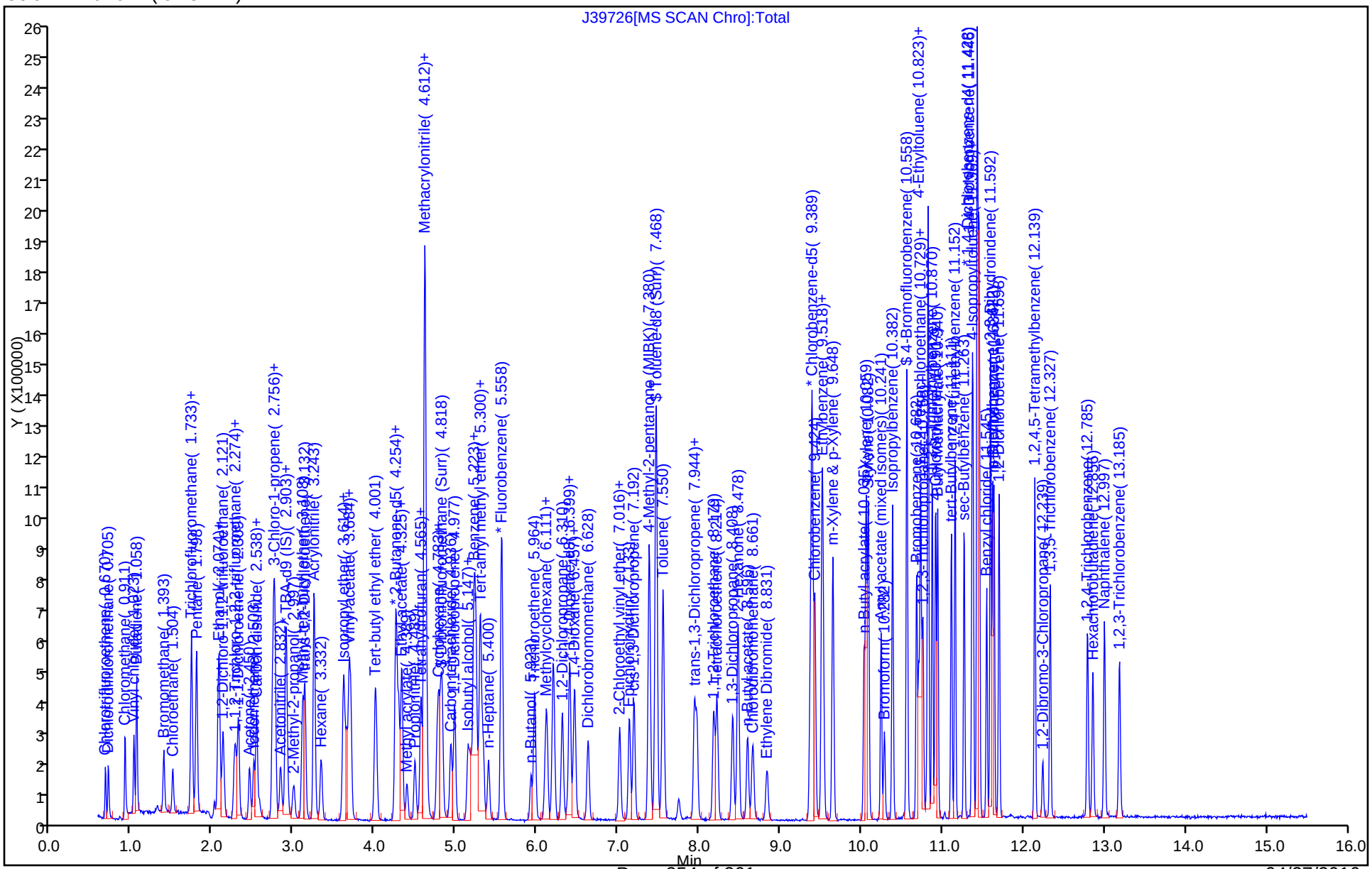
Report Date: 26-Apr-2016 12:25:53 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20160426-40302.b\J39726.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 26-Apr-2016 10:21:30 | Instrument ID: | CVOAMS8 | Operator ID: | |
| Lims ID: | LCSD | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Purge Vol: | 5.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | 8260_W8 | Limit Group: | VOA - 8260C Water and Solid | | |

Column: Rtx-624 ( 0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Instrument ID: CVOAMS8 Start Date: 03/29/2016 02:50

Analysis Batch Number: 359281 End Date: 03/29/2016 08:09

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 460-359281/1 | | 03/29/2016 02:50 | 1 | J38328.D | Rtx-624 0.25(mm) |
| STD7 460-359281/2 IC | | 03/29/2016 03:17 | 1 | J38329.D | Rtx-624 0.25(mm) |
| STD1 460-359281/3 IC | | 03/29/2016 03:43 | 1 | J38330.D | Rtx-624 0.25(mm) |
| STD5 460-359281/4 IC | | 03/29/2016 04:09 | 1 | J38331.D | Rtx-624 0.25(mm) |
| STD20 460-359281/5 ICIS | | 03/29/2016 04:36 | 1 | J38332.D | Rtx-624 0.25(mm) |
| STD50 460-359281/6 IC | | 03/29/2016 05:02 | 1 | J38333.D | Rtx-624 0.25(mm) |
| STD200 460-359281/7 IC | | 03/29/2016 05:28 | 1 | J38334.D | Rtx-624 0.25(mm) |
| STD500 460-359281/8 IC | | 03/29/2016 08:09 | 1 | J38335.D | Rtx-624 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Instrument ID: CVOAMS8 Start Date: 04/25/2016 20:56

Analysis Batch Number: 364590 End Date: 04/26/2016 08:12

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 460-364590/1 | | 04/25/2016 20:56 | 1 | J39697.D | Rtx-624 0.25(mm) |
| CCVIS 460-364590/2 | | 04/25/2016 21:24 | 1 | J39698.D | Rtx-624 0.25(mm) |
| LCS 460-364590/3 | | 04/25/2016 21:58 | 1 | J39699.D | Rtx-624 0.25(mm) |
| LCSD 460-364590/4 | | 04/25/2016 22:25 | 1 | J39700.D | Rtx-624 0.25(mm) |
| MB 460-364590/7 | | 04/26/2016 00:14 | 1 | J39703.D | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 00:41 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 01:34 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 02:00 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 02:26 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 02:53 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 04:40 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 05:06 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 05:33 | 1 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 05:59 | 1 | | Rtx-624 0.25(mm) |
| 460-112643-1 | | 04/26/2016 06:26 | 1 | J39717.D | Rtx-624 0.25(mm) |
| 460-112643-2 | | 04/26/2016 06:52 | 1 | J39718.D | Rtx-624 0.25(mm) |
| 460-112643-3 | | 04/26/2016 07:19 | 1 | J39719.D | Rtx-624 0.25(mm) |
| 460-112643-6 | | 04/26/2016 07:45 | 1 | J39720.D | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 08:12 | 20 | | Rtx-624 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-112643-1

SDG No.:

Instrument ID: CVOAMS8 Start Date: 04/26/2016 09:02

Analysis Batch Number: 364733 End Date: 04/26/2016 20:02

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 460-364733/1 | | 04/26/2016 09:02 | 1 | J39723.D | Rtx-624 0.25(mm) |
| CCVIS 460-364733/2 | | 04/26/2016 09:28 | 1 | J39724.D | Rtx-624 0.25(mm) |
| LCS 460-364733/3 | | 04/26/2016 09:54 | 1 | J39725.D | Rtx-624 0.25(mm) |
| LCSD 460-364733/4 | | 04/26/2016 10:21 | 1 | J39726.D | Rtx-624 0.25(mm) |
| MB 460-364733/6 | | 04/26/2016 11:15 | 1 | J39728.D | Rtx-624 0.25(mm) |
| 460-112643-4 | | 04/26/2016 12:37 | 1 | J39731.D | Rtx-624 0.25(mm) |
| 460-112643-5 | | 04/26/2016 13:05 | 1 | J39732.D | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 14:00 | 10 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 14:28 | 10 | | Rtx-624 0.25(mm) |
| ZZZZZ | | 04/26/2016 14:56 | 10 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 15:23 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 15:51 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 16:19 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 16:47 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 17:15 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 17:43 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 18:11 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 18:39 | 1 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 19:07 | 25 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 19:34 | 20 | | Rtx-624 0.25(mm) |
| | | 04/26/2016 20:02 | 20 | | Rtx-624 0.25(mm) |

# Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

04/27/2016

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

| | | |
|---|---|---|
| Name ( for report and invoice ) Jeff Passman | Samplers Name ( Printed ) Jeff Passman | Site/Project Identification Bergen County DPW / 12BR051 |
| Company Bankerhoff Environmental Services | P. O. # | State (Location of site): NJ: ☒ NY: ☐ Other: |
| | | Regulatory Program: Site Remediation Prog. DKQP: ☒ |
| Address 1805 Atlantic Ave | Analysis Turnaround Time: Standard ☐ | |
| City Manasquan State NJ | Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ | |
| Phone 732-223-2225 Fax 732-223-3666 | Other ☒ 48hrs | |

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 112643

| Sample Identification | Date | Time | Matrix | No. of Cont. | VOC 15 | Sample Numbers |
|---|---|---|---|---|---|---|
| TWP-1 | 4/22/16 | 10:59 | GW | 3 | X | 1 |
| TWP-2 | | 11:24 | | | X | 2 |
| TWP-3 | | 13:24 | | | X | 3 |
| TWP-4 | | 13:10 | | | X | 4 |
| TWP-5 | | 13:54 | | | X | 5 |
| TWP-6 | | 14:02 | | | X | 6 |

**2-Day RUSH**

**Preservation Used:** 1 = ICE, 2 = HCl, 3 = $H_2SO_4$, 4 = $HNO_3$, 5 = NaOH — Soil:
6 = Other _____, 7 = Other _____ — Water: 2

**Special Instructions** VOC 15 including TICs, 1,2-Dibromomethane, 1,2-dichloroethane Water Metals Filtered (Yes/No)? _____

| Relinquished by | Company | Date / Time | Received by | Company |
|---|---|---|---|---|
| Relinquished by 1) Dan Grant | BES | 4/22/16 1520 | 1) | Test A |
| Relinquished by 2) | Company | Date / Time | Received by 2) | Company |
| Relinquished by 3) | Company | Date / Time | Received by 3) | |
| Relinquished by 4) | Company | Date / Time | Received by 4) | |

460-112643 Chain of Custody

2.0°C / 3.0°C
TR #6

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

# TestAmerica Edison
## Receipt Temperature and pH Log

Job Number: 112693

Number of Coolers: 1 IR Gun # 24

### Cooler Temperatures

| | RAW | CORRECTED | | RAW | CORRECTED | | RAW | CORRECTED |
|---|---|---|---|---|---|---|---|---|
| Cooler #1: | 2.4 °C | 3.0 °C | Cooler #4: | °C | °C | Cooler #7: | °C | °C |
| Cooler #2: | °C | °C | Cooler #5: | °C | °C | Cooler #8: | °C | °C |
| Cooler #3: | °C | °C | Cooler #6: | °C | °C | Cooler #9: | °C | °C |

| TALS Sample Number | Ammonia (pH<2) | COD (pH<2) | Nitrate Nitrite (pH<2) | Metals* (pH<2) | Hardness (pH<2) | Pest (pH 5-9) | EPH or QAM (pH<2) | Phenols (pH<2) | Sulfide (pH>9) | TKN (pH<2) | TOC (pH<2) | Total Cyanide (pH>12) | Total Phos (pH<2) | Other | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

*The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.*

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: GM Date: 4/22/16



04/27/2016

# Login Sample Receipt Checklist

Client: Brinkerhoff Environmental Services, Inc.

Job Number: 460-112643-1

**Login Number: 112643**
**List Number: 1**
**Creator: Meyers, Gary**

**List Source: TestAmerica Edison**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | Not present |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.0 ° C IR #6 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | No analysis requiring residual chlorine check assigned. |