ECM
environmental compliance monitoring, inc.

August 8, 2014

Mr. Scott Deyette
Chief, Inspection Unit
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7014

RE: MW-24 and MW-71 Delineation Program Results
Operable Unit 1
Former Kay Fries Site; Stony Point, New York
Site No. 344023
ECM Project #1192

Dear Mr. Deyette:

Environmental Compliance Monitoring, Inc. (ECM), on behalf of Evonik Corporation (Evonik), has prepared this report to present the MW-24 and MW-71 Delineation Workplan (WP) results. The MW-24 and MW-71 Delineation WP was submitted to the New York State Department of Environmental Conservation (NYSDEC) on August 2, 2013 and was subsequently approved by the NYSDEC in their letter dated August 26, 2013.

This report presents the details of the delineation program for the volatile organic compounds (VOCs) reported in ground water monitoring well (MW) MW-24 and the delineation of a Dense Non-Aqueous Phase Liquid (DNAPL) observed within MW-71, located within the Operable Unit 1 (OU1) section of the Former Kay Fries site, Stony Point, New York. Figure 1 depicts the location of MW-24 and MW-71 within the OU1 section of the site.

1.0 BACKGROUND

The OU1 MW-31 In-Situ WP (March 2012) presented the details of the proposed subsurface application of a chemical oxidant (RegenOx®) combined with Advanced Formula Oxygen Release Compounds (ORC Advanced®) to enhance ground water remediation in the area proximal to MW-31. As part of the NYSDEC WP approval, the NYSDEC requested that monitoring well MW-24 be included in the WP as a result of VOCs (i.e., benzene, chlorobenzene, cis-1,2-dichloroethane, trans-1,2-dichloroethene, trichloroethene [TCE], and vinyl chloride) reported in MW-24 above the NYSDEC Ground Water Quality Criteria (GWQC) during the OU1 August 2011 sampling event (as reported in the Periodic Review Report for the period January 2011 through December 2011). The results of the delineation program and recommendations relative to the compounds of concern in MW-24 are presented in Section 2.0 of this report.

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As proposed in the MW-31 In-Situ WP, three delineation monitoring wells, MW-70, MW-71 and MW-72, were installed during July 2012 to assess the effectiveness of the in-situ remediation. The three wells were installed up-gradient and cross-gradient of MW-31, (north, west, and south of the area as depicted on Figure 1). During the December 2012 post-application sampling of MW-71 (up-gradient well), DNAPL was observed within the well. The DNAPL was reported to the NYSDEC in an e-mail dated March 18, 2013, entitled *MW-31 Workplan Results Summary*. The Results Summary stated that the DNAPL would be gauged and sampled to assess the composition of the material. The results of the MW-71 DNAPL evaluation and subsequent delineation are presented in Section 3.0 of this report.

2.0 MONITORING WELL MW-24

Monitoring well MW-24 (Figure 1) was added to the MW-31 In-Situ WP monitoring program due to the VOCs reported (benzene, chlorobenzene, cis-1,2-dichloroethane, trans-1,2-dichloroethene, TCE, and vinyl chloride) in MW-24 above the NYSDEC – GWQC during August 2011. Due to the presence of the chlorinated compounds (which RegenOx® and ORC Advanced® are not effective in treating), the NYSDEC requested MW-24 be included in the in-situ remediation monitoring program to assess the VOC concentrations over time.

Five rounds of sampling and analysis were conducted to evaluate the VOC levels previously reported (August 2011) in MW-24 during August and December of 2012, July and September of 2013, and March 2014. The sampling results from MW-24 reported slightly fluctuating (generally within 20 micrograms per liter [µg/L]) yet relatively consistent individual VOCs concentrations in the well (generally remained within the 10 to 50 range). The analytical results of the compounds reported in MW-24 are summarized in Table 1.

2.1 MONITORING WELL MW–24 DELINEATION

Delineation of MW-24 was previously well-documented in the northern, eastern (down-gradient), and southern directions by the reported not detected (ND) results from MW-25, MW-70, PZ-23, MW-36, and MW-37 (Figure 1). There was no suitable delineation point to the west (up-gradient) of MW-24.

Based on the above, the Delineation WP was implemented on January 27 and 28, 2014 to delineate and evaluate VOCs to the west of MW-24, as outlined below:

- Two ground water samples were proposed via hydropunch sampling methods in the western, up-gradient direction from MW-24 for VOC analyses. The hydropunch was advanced into the ground water level approximately 12 feet below grade (BG). Due to the silty-clay lithology, an adequate sample volume could not be acquired via hydropunch methods. Therefore, temporary wells were installed at the TW-1 and TW-2 locations to allow ground water to accumulate in the wells overnight.
- The temporary wells were constructed of one-inch inside diameter, PVC casing and screen, installed to 20 feet BG with a screened interval of 10 to 20 feet BG.
- The delineation sample locations are presented on Figure 1. The first temporary well (TW-1) was collected 30 feet west of MW-24 and the second well (TW-2) was collected 10 feet further, 40 feet west of MW-24. The TW-2 sample was collected as a step-out sample and was retained by the laboratory pending the TW-1 ground water sample results.
- The two temporary wells were purged of approximately three gallons each (equating to approximately nine well volumes from each well) and the wells were allowed to equilibrate overnight prior to sampling.

- Ground water samples were collected from the temporary wells TW-1 and TW-2 on January 28, 2014. Upon collection, each sample was labeled and placed in an iced sample shuttle for transportation to Test America Laboratories in Edison, New Jersey, a New York State-certified laboratory. The samples were submitted for Target Compound List VOCs plus 15 library search compounds (VOC+15) including a search for methyl isobutyl ketone (MIBK) and 1,4-dioxane analyses.

The MW-24 delineation program results are summarized in Section 2.2 below.

2.2 MONITORING WELL MW–24 DELINEATION RESULTS

The ground water monitoring results are summarized on Table 1. The analytical data package is included in Appendix 1. The delineation sampling results are summarized below.

2.2.1 TW-1 Results

The VOC results from the first delineation sample TW-1 were reported as not detected or below the NYSDEC GWQC, with the exception of benzene and chlorobenzene reported at 1.4 µg/L and 63 µg/L, respectively (Table 1). The reported benzene result was marginally above the GWQC of 1.0 µg/L and was within the range historically reported for MW-24 (between not detected and 1.7 µg/L). The TW-1 sample result for chlorobenzene (63 µg/L) was slightly above the previous results for MW-24, which ranged between 24 and 55 µg/L. Cis-1,2-dichloroethane, trans-1,2-dichloroethene, TCE, and vinyl chloride were reported as not detected (ND) in the TW-1 sample. As a result of the benzene and chlorobenzene levels reported above the GWQC, the TW-2 sample analyses were activated.

2.2.2 TW-2 Results

The TW-2 sample analyses reported five VOCs (benzene, chlorobenzene, cis-1,2-dichloroethane, TCE, and vinyl chloride) above the GWQC, generally consistent with the specific compounds historically reported in MW-24. Compound-specific results are summarized below:

- Benzene was reported at 1.7 µg/L, consistent with the benzene concentration range previously reported in samples collected from MW-24.
- Chlorobenzene was reported at 44 µg/L, consistent with the concentration range (24 µg/L to 55 µg/L) previously reported in MW-24 for this compound; however, higher than the September 2013 (24 µg/L) and March 2014 (25 µg/L) sample results for MW-24.
- Cis-1,2-dichloroethane, TCE, and vinyl chloride were reported above the GWQC; however at levels lower (less than 10 µg/L) than the respective concentration ranges previously reported for these compounds for MW-24.
- Trans-1,2-dichloroethene was reported as not detected for the TW-2 sample.

2.3 MONITORING WELL MW–24 DELINEATION SUMMARY

The historic ground water sampling results from MW-25, PZ-23, MW-70, MW-36, and MW-37, in the northern (cross-gradient), eastern (down-gradient), and south/southeastern (cross/down-gradient) directions effectively delineate the ground water impacts noted at MW-24 (Figure 1).

The sampling results from the recent January 2014 up-gradient delineation event were comparatively evaluated to the compounds and concentrations previously reported for MW-24. Based on this evaluation, the delineation sampling results from the temporary wells TW-1 and TW-2 indicated overall lower total VOC concentrations (approximately 65 µg/L) then the down-gradient well MW-24 (approximately 135 µg/L during March 2014).

Benzene was reported within the previously reported concentration range for benzene in samples collected from MW-24 (ND to 1.7 µg/L; Table 1). Only the chlorobenzene result from temporary well TW-1 was reported at a higher concentration (63 µg/L) than the previously reported concentrations range for MW-24 (24 µg/L to 55 µg/L; Table 1). However, the results from TW-2, located 10 feet up-gradient of TW-1, were reported lower (44 µg/L) and within the chlorobenzene concentration range previously reported for MW-24.

Four of the target compounds were reported as not detected or at much lower concentrations in the temporary wells than the previously reported MW-24 results, as summarized in the summary table below.

Well Sample	**MW-24**	**TW-1**	**TW-2**
Sample Date	March 2014	January 2014	January 2014
Cis-1,2-dichloroethene	49	ND (<0.18)	1.7
Trans-1,2-dichloroethene	30	ND (<0.13)	ND (<0.13)
TCE	27	ND (<0.90)	9.7
Vinyl chloride	4.3	ND (<0.14)	2.9

The presence (predominantly in MW-24) of the ethenes (as cis-1,2-dichloroethene and trans-1,2-dichloroethene) and vinyl chloride is a typical indicator that the anaerobic reductive dechlorination is occurring. The low level of TCE reported in TW-2 and the lower or absent levels of degradation ("daughter") compounds in both TW-1 and TW-2 is a strong indication that the elevated VOCs are localized towards the area of MW-24 and that elevated "parent" compounds (e.g., TCE) are not present and/or degrading up-gradient of MW-24.

Using chlorobenzene as the "worst-case" compound of concern (i.e., highest concentrations above the GWQC) and extrapolating the recent data set, the area of impact was projected to extend an approximate length of 75 feet; from approximately 20 feet west (up-gradient) of the TW-2 location to approximately 15 feet east (down-gradient) of MW-24 (Figure 1). A contingency "buffer" was not incorporated into the calculated extrapolation, as sampling results from temporary wells are typically biased high (due to suspended particulates), likely resulting in a larger calculated area. The not detected results from PZ-23 document the absence of the compounds of concern further down-gradient of MW-24 (Figure 1).

The sampling results from MW-25 and MW-70 document non-impacted areas to the north and south/southeast (cross-gradient) of MW-24; however, these two monitoring wells are approximately 80 to 90 feet from MW-24. Based on the consistent ground water flow direction (easterly) and hydraulic gradient (approximately 0.10 ft/ft) documented over the past 15 years, the width of the plume is anticipated to be more elliptically defined and is estimated to be approximately one-half of the length of the impacted area (approximately 35 to 40 feet; Figure 1).

3.0 MONITORING WELL MW-71

Monitoring well MW-71 was installed during July 2012 and subsequently sampled during the August 2012 MW-31 in-situ baseline sampling event. DNAPL was not observed during the installation or initial sampling of MW-71 during July and August 2012. As previously stated, DNAPL was first observed in MW-71 during the December 2012 sampling event. During the March 2013 ground water sampling event, the product thickness was gauged (approximately 3.5 inches from base of well) and a sample was collected for fingerprint analysis. The fingerprint analysis was reported as inconclusive, but generally identified the product as a dense, non-water soluble, tar-like material, consisting of tentatively identified (substituted) phenolic compounds and other aromatic mixtures. Additionally, ground water samples were collected from MW-71 and analyzed for semi-volatile organic compounds and VOCs. The results were reported below the GWQC and/or not detected, with the exception of benzene and chlorobenzene reported above the GWQC at 19 µg/L and 210 µg/L, respectively. The absence of semi-volatile organics and the relatively low detection of two VOCs in the MW-71 ground water sample support the previous non-water soluble description of the DNAPL.

3.1 MONITORING WELL MW–71 (DNAPL) DELINEATION

Based on the DNAPL observed in MW-71, Dakota Technologies, Inc. (Dakota) was contacted to evaluate the applicability of their laser-induced fluorescence (LIF) technologies in detecting and subsequently delineating the DNAPL in the field. A sample of the DNAPL was collected from MW-71 and submitted to Dakota to screen using two LIF technologies: Ultra-Violet Optical Screening Tool (UVOST®) and Tar-Specific Green Optical Screening Tool (TarGOST®). Both systems can produce real-time data and generate detailed log responses with depth (i.e., boring advancement) in the field. As stated above, the purpose of DNAPL sample screening was to evaluate the effectiveness of each technology to detect the DNAPL in the field and also obtain an identification or "signature" of the material for comparison during the field delineation program.

The LIF screening tools use a "Reference Emitter" (RE) to record the presence of Non-Aqueous Phase Liquids (NAPL) and relative signal strength. The RE is calibrated to an internal known response (i.e., standard) with a RE of 100%. A calibration ratio is then utilized to produce relative signal strength of the RE for the NAPL. The UVOST® system, which is geared towards lighter NAPL such as gasoline and diesel products, returned a very low response (RE) signal of less than 5% for the initial sample. The TarGOST® system, which is geared toward heavier NAPL, produced an approximate RE of 2,400% (i.e., a very strong, positive response signal). As such, the TarGOST® system was selected as the suitable technology for the DNAPL field delineation program, with the TarGOST® log of the initial sample to be used as a comparative signature sample log. The UVOST® and TarGOST® sample logs are presented in Appendix 2 (each system is identified in the lower right title block). A TarGOST® reference guide is also provided therein.

The MW-71 delineation program was conducted on January 27 and 28, 2014, and entailed the following:

- An initial soil boring was conducted adjacent to MW-71 to evaluate the TarGOST® signal in the field and compare it to the "signature" sample previously provided by Dakota.
- To delineate the DNAPL, soil borings were advanced at approximate 10-foot lateral intervals extending out from MW-71 in the four cardinal directions (north, south, east, and west) (Figure 1). The soil borings were advanced via direct push technology equipped with the TarGOST® system.
- The borings were extended vertically to a maximum of approximately 30 feet below grade.
- Secondary borings were advanced closer to or further (i.e., "step-out") from MW-71, dependent on the findings from the initial borings, to further define the delineation.
- Upon completion, each soil boring was backfilled with the soil cuttings from that boring and asphalt-patched at the surface.

The MW-71 delineation program results are presented in Section 3.2 below.

3.2 MONITORING WELL MW–71 (DNAPL) DELINEATION RESULTS

Soil borings were advanced at approximately 10 foot intervals laterally from MW-71, with the exception of the first boring, which was located adjacently east of MW-71. The delineation soil boring locations are depicted on Figure 1. The TarGOST® field logs are presented as Appendix 2. The TarGOST® delineation program results are summarized below by cardinal direction.

To the East:

TG01E - This boring was advanced adjacently (approximately two feet) east of MW-71 to obtain a "field signature" of the DNAPL observed in the MW-71 and assess the vertical extent of the DNAPL. Slight interference (referenced as "scatter" in the TarGOST® program) was noted in the top four feet (and lessening to approximately seven feet BG) of the boring as evident by the high blue peak depicted on the top "Callout" (or "Waveform") on the left side of the TG01E log (Appendix 2). This upper interference was attributed to pavement, roadbed, and fill materials. Additional interference was noted at approximately 14 to 15.5 feet BG (note the similar blue peak in second Waveform ["Callout" box]) with a mixture of DNAPL as evident by the green, orange, and red peaks in the same second Waveform. The signal from the 14.5 to 15.5 foot interval indicates a mixture of the DNAPL (as evident by the "sea green" signal on the Fluorescence Plot on the right-side of the log) with either interference or other material, as evidenced by the mixed color spikes on the main RE Signal Plot (center plot or "scan" on the log) across this depth interval. The presence of the DNAPL was more clearly evident and well-defined at the 15.5 to 17 foot interval as depicted by the consistent yellow signal on the center RE Signal Plot of the TG01E log. The maximum RE signal (i.e., the strength of the RE response) is presented in the lower right corner of the log. The maximum RE signal of 380% was recorded for the TG01E location at 16.92 feet BG. Based on the log Waveform (i.e., signature), the Dakota TarGOST® field engineer described the material at this interval as a tar-like, creosote material. It was also noted that the field signature (at this depth in TG01E) appeared very similar to the initial sample signature originally submitted for the TarGOST® screening, as depicted by the similar Waveforms and colorimetrics on both the RE Signal Plot and Fluorescence Plot. Minor interference was noted (in blue) to approximately 17.3 feet BG (again, similar to the signature sample), after which no significant signals were noted to the terminal depth of the boring at 30 feet BG. Interpretation of this log indicates a distinct DNAPL layer from 15.5 feet to 17 feet, with a mixed layer above the DNAPL from approximately 14.5 feet to 15.5 feet BG.

TG02E - This boring was advanced 10 feet east of TW-71 to a total depth of 26.2 feet BG. The initial log for TG02E (presented on a similar scale [X-axis] as the TG01E log with an RE Signal scale of approximately 400%) did not detect DNAPL or any other appreciable signal other than minor interference that was noted primarily within the top ten feet. This was further confirmed by enlarging the scale of the log (thereby enhancing the detail) to 20% as depicted on the second TG02E log presented in Appendix 2. The second log clearly depicts the interference (scatter in blue) and no definitive patterns on the Fluorescence Plot (on the right side of the log) indicating that delineation was complete to the east of MW-71.

TG03E - As a conservative measure, a "step-out" boring (TG03E) was conducted another 10 feet to the east (20 feet east of MW-71) to confirm that delineation was complete in the eastern, down-gradient direction. TG03E was advanced to 30.1 feet BG, the log for which was similar to the previous TG02E boring, confirming no detection of the DNAPL.

Based on the findings from the TG02E and TG03E locations, delineation of the DNAPL at the MW-71 location has been completed to the east, indicating no significant (i.e., less than ten feet from MW-71) migration of the DNAPL in the down-gradient direction.

To the South:

TG07S - The TG07S boring was advanced 10 feet south of MW-71 to 30 feet BG. Similar to the TG01E log (from the location adjacent to MW-71), the log for TG07S noted minor interference in the upper seven feet (note that the RE Signal scale on the TG07S log is half of the scale on the TG01E log [200%]). The DNAPL was detected (as noted by the sea green color on the right-side Fluorescence Plot) at just above 15 feet to approximately 16 feet BG. Interpretation of the TG07S log relative to the TG01E log indicates a thinning and more heterogeneous occurrence of the DNAPL at the TG07S location (as compared to the TG01E location) based on:

- The thinner depth interval or lense thickness (approximately one foot compared to the roughly two foot thickness at TG01E);
- The increased interference (scatter) signal at the 15 to 16 foot depth noted in both the Waveform (third callout on left side of the TG07S log) and the main RE Signal Plot;
- The weaker signal response on the main RE Signal Plot (approximately 26% versus 380% at TG01E); and,
- The less-defined color definition on the right-side Fluorescence Plot.

TG08S - This boring was attempted 10 feet further south from TG07S (20 feet south of MW-71; Figure 1); however, the direct push drill rig encountered refusal at approximately 11 feet BG. No detection of DNAPL was noted to this depth and the boring was subsequently abandoned and backfilled with the soil cuttings.

TG09SW- Another boring in the southerly direction was advanced (TG09SW) approximately 27 feet south/southwest of MW-71 (field adjusted slightly westward to avoid utilities) to a depth of 30 feet BG. Similar to the TG02E logs, both the initial and the enlarged-scale logs for TG09SW did not detect DNAPL, with a maximum RE signal of 7% due to interference.

Based on the findings from the TG09SW boring, delineation to the south of MW-71 has been completed; i.e., less than 27 feet laterally from MW-71 but more likely just past and proximal to the TG07S location (10 feet from MW-71).

To the West:

TG06W - This boring was advanced approximately 10 to the west of MW-71 (and within two feet of the site building) to a depth of 30 feet BG. The log for TG06W was similar to the outer eastern and southern logs and did not detect DNAPL.

The TG06W boring indicated no appreciable migration in the up-gradient direction; completing delineation to the west of MW-71 (i.e., less than ten feet from MW-71) in the up-gradient direction.

To the North:

TG04N - Delineation proceeded to the north of MW-71 with boring TG04N advanced 10 feet north of MW-71 to 30 feet BG. The log for TG04N did not detect DNAPL in the boring. A maximum RE signal of 11% was recorded at 1.6 feet BG within the previously noted "scatter" interval.

TG05N - Similar to previous conservative measures, a step-out boring (TG05N) was conducted approximately 8 feet north of TG04N (18 feet north of MW-71) to a depth of 30 feet BG. The log for TG05N indicated a slight response at 11 feet and 13 feet BG (approximately 20% to 35% RE signal; note the enlarged scale of this log). However, in consultation with the Dakota TarGOST® field engineer, it was concluded that the recorded signal was not definitive and did not appear to be a significant source or the same signature as the DNAPL in MW-71 and TG01E based on:

- The noted differences in the Waveform patterns (including considerable interference as depicted by the blue scatter in the TG05N log);
- Colorimetric differences in both the RE Signal Plot and the Fluorescence Plot;
- Approximate four foot difference in depth between the recorded signals; and,
- The absence of any detection at TG04N, located between the TG01E and TG05N locations.

As a result of the non-definitive signal recorded on the TG05N log (and independent of the TG04N log that recorded no presence of the DNAPL), several additional soil borings were advanced in the northern direction. These borings were identified as TG10N, TG11N, TG12NW, TG13NE, and TG14N, and were systemically advanced as a result of varying degrees of responses at varying depths at each location as the delineation proceeded to the north. A summation of the northern boring logs (including TG04N and TG05N) is presented below.

SUMMARY OF TARGOST® DELINEATION BORING LOGS NORTH OF MW-71

Boring ID	Distance/Direction from MW-71	RE Signal	Depth (feet BG)	Descriptions
TG04N	10 feet N	11%	1.6	No discernible signal or DNAPL detection.
TG05N	18 feet N	19% 35%	11.01 - 12.82	Non-definitive signal based on Waveforms, colorimetrics, and depth.
TG10N	30 feet N	38%	6.01 - 6.28	Waveform does not match any other log and occurs at shallower depth.
TG11N	50 feet N	132%	13.03 - 13.36	Thin (<3-inch) thick signal; lighter colormetrics and more interference compared to signature DNAPL signal.
TG12NW	85 feet NW	17%	10.22	No discernible signal or DNAPL detection.
TG13NE	115 feet NE	28%	13.10 - 13.34	Thin (<3-inch) thick signal; lighter colormetrics in RE Signal Plot and more interference compared to signature DNAPL signal.
TG14N	140 feet N	37%	7.35	Very thin/minor indiscernible signal at 7.35 ft BG; no DNAPL detected.

Based on a comprehensive review of the TarGOST® logs to the north of MW-71 (as summarized above) and in consultation with the Dakota TarGOST® engineer and the program designer, a high degree of variability was noted in the RE signal responses, Waveforms, colorimetrics, fluorescence and occurrence thickness and depth at the northern borings. Based on these results, it was concluded that the variable signals recorded north of TG04N are likely attributable to heterogeneous occurrences of various organic matter in the subsurface, possibly including organic clays, peat, tree roots/debris, alluvial detritus (based on the site proximity to the river), and/or fill materials. Such possible interference is documented in the Dakota TarGOST® Guide. Based on this technical evaluation, it was concluded that the DNAPL likely does not extend to the TG04N boring location (10 feet north of MW-71) and delineation has been completed to the north of MW-71.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The NYSDEC approved the MW-71 and MW-24 delineation program, which entailed the delineation of VOCs reported in MW-24 and the delineation of the DNAPL observed within MW-71 (both located within the OU1 section of the Kay Fries site), the results of which are reported herein. Conclusions and recommendations based on the delineation program results are summarized below.

4.1 MONITORING WELL MW-24 DELINEATION

Historic ground water sampling results have documented the delineation of the VOCs reported in MW-24 in the northern, eastern, and southern directions. Two temporary wells (TW-1 and TW-2) were installed to delineate the reported VOCs in the western, up-gradient direction of MW-24. The delineation sampling results from temporary wells TW-1 and TW-2 indicate overall lower total VOC concentrations then the down-gradient well MW-24. Four of the target compounds (cis-1,2-dichloroethane, trans-1,2-dichloroethene, TCE, and vinyl chloride) were reported as not detected or at much lower concentrations in the temporary wells than the previously reported MW-24 results. Benzene was reported in both temporary wells at similar concentrations reported for MW-24 (ND to 1.7 µg/L). Only the chlorobenzene result from temporary well TW-1 was reported at a slightly higher concentration than previously reported for MW-24. The chlorobenzene result from TW-2 was reported lower than TW-1 and within the range previously reported for MW-24.

Therefore, chlorobenzene was utilized as the "worst-case" compound of concern in this area. The area of impact was extrapolated to extend an approximate length of 75 feet; from approximately 20 feet west (up-gradient) of the TW-2 location to approximately 15 feet east (down-gradient) of MW-24. The absence of the compounds of concern further down-gradient of MW-24 (in PZ-23; Figure 1) document that the reported VOCs are localized to the area around MW-24 and not substantially migrating down-gradient to the east.

The sampling results from MW-25 and MW-70 document non-impacted areas to the north and south/southeast (cross-gradient directions) relative to MW-24. However, based on the consistent ground water flow direction and hydraulic gradient documented at the site, the width of the plume was projected to be more elliptically defined and is estimated to be approximately one-half of the length of the impacted area (approximately 35 to 40 feet).

The individual VOC concentrations reported in MW-24 and the delineation points TW-1 and TW-2 have generally been within the 10 to 50 µg/L range and localized to this area. The presence of the degradation compounds (cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride; predominately in MW-24) is an indicator that anaerobic reductive dechlorination is occurring in the area proximal to MW-24. As such, a decreasing trend in VOCs would be expected to continue over time as demonstrated by the MW-24 results.

Based on these observations, the delineation of the VOCs reported in MW-24 has been completed and a monitoring program is recommended and proposed. Annual monitoring of MW-24 and down-gradient PZ-23 is proposed concurrent with the OU1 long term ground water monitoring program during September of each calendar year. The next sampling event would be conducted during September of 2014. The results of the monitoring program will be presented to the NYSDEC in the 2014 Periodic Review Report (PRR) during February 2015.

4.2 MONITORING WELL MW-71 (DNAPL) DELINEATION

To delineate the DNAPL observed in MW-71, soil borings were advanced in the four cardinal directions extending laterally from MW-71 (Figure 1). The soil borings were advanced via direct push technology equipped with the TarGOST® system.

The TarGOST® program successfully delineated the DNAPL to the east, west, north and south of MW-71, with some minor detections to the north that exhibited properties dissimilar to the DNAPL signature defined in the initial sample and TG01E. Overall, the TarGOST® system effectively delineated the DNAPL to be localized and isolated to the area surrounding MW-71 with an estimated radius of 10 to 15 feet (in the southern direction). The TarGOST® delineation points east of MW-71 (TG02E and TG03E) were absent of DNAPL to a depth of 30 feet BG, indicating that the DNAPL is not migrating down-gradient and is localized in the MW-71 area.

The VOC concentrations reported in the MW-71 ground water samples have been limited to benzene (10 to 20 µg/L) and chlorobenzene (120 to 210 µg/L), above the NYSDEC GWQC. The presence of only these two VOC compounds in MW-71 (and at relatively low concentrations) is an indication that the DNAPL is not highly water soluble, as previously characterized by Dakota. Additionally, VOC concentrations have been reported as "not detected" in down-gradient wells MW-36, MW-37 and MW-70, which further supports that the DNAPL is not significantly contributing to VOCs in ground water at those down-gradient locations.

As outlined herein, the TarGOST® delineation program effectively delineated the DNAPL to a localized area surrounding MW-71. Additionally, the delineation of the VOCs in MW-24 has been completed. Remedial options are currently being evaluated for both areas, which will be reviewed with the NYSDEC and property owner upon refinement. After which, it is anticipated that a conceptual work plan outlining the selected remedial alternative(s) that provide the most effective/practical approaches to address each area would then be submitted to the NYSDEC for review and approval.

We welcome the opportunity to further discuss these findings during your review of this information. As such, please do not hesitate to call Alex Yankaskas of ECM directly at (908) 874-0990 or Andrew Kruczek of Evonik at (732) 735-0204 to review this information via phone or meeting at your convenience.

Sincerely,

Environmental Compliance Monitoring, Inc.

Bruce Manganiello

Bruce Manganiello
Operations Manager

cc: N. Walz, NYSDOH
A, Kruczek, Evonik
P. Magee, MBC Contractors Inc.
S. Taylor, Taylord Environmental
ECM File – 1192- L

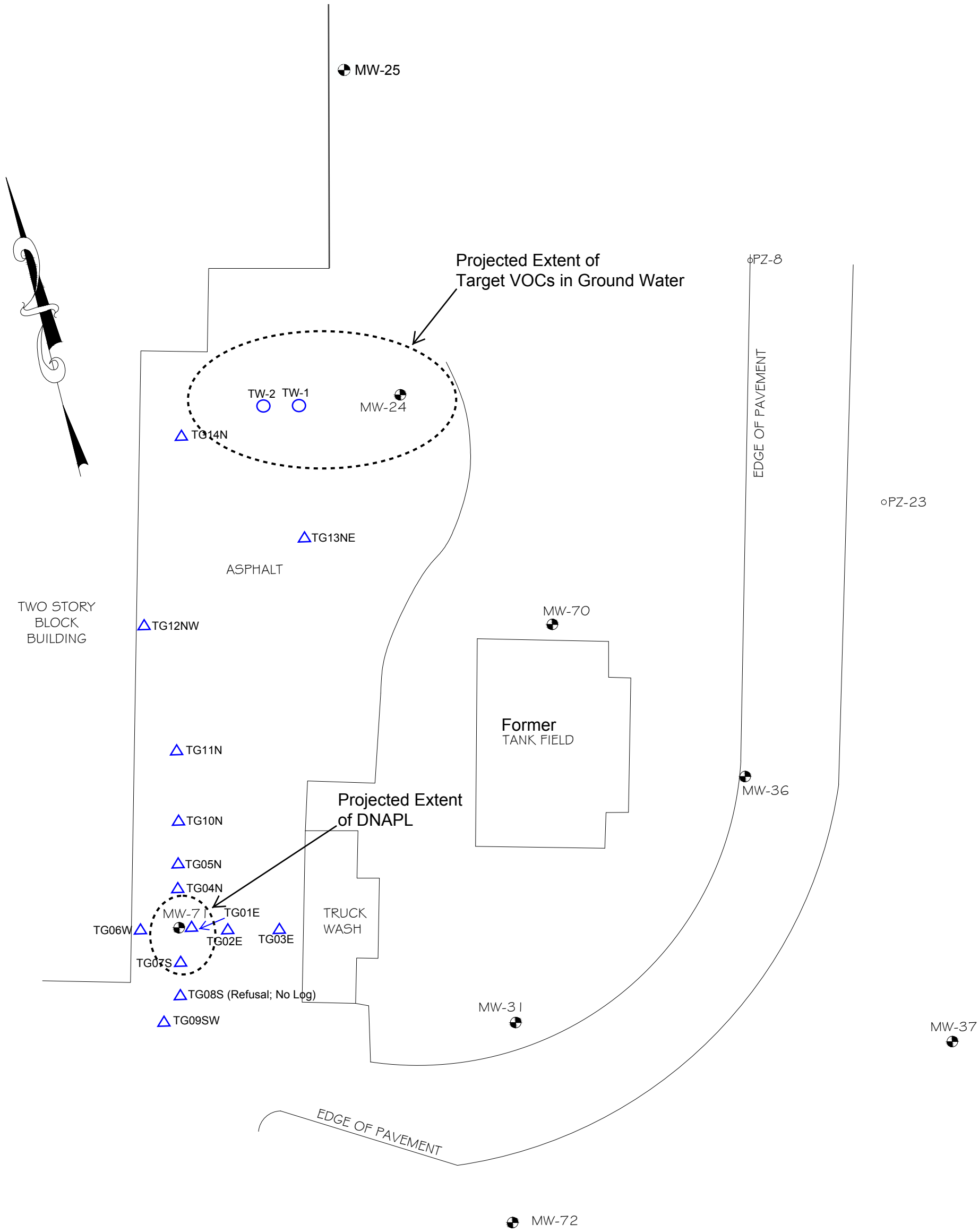
TABLES

Table 1
Summary of Detected Volatile Organic Compounds (ug/L)
Former Kay Fries Site, Stony Point, New York
Monitoring Well MW-24
ECM Project #1192

Sample ID	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	TW-1	TW-2	
Volatile Organics	August 2011	August 2012	December 2012	July 2013	September 2013	March 2014	January 2014	January 2014	GWCS
Benzene	**1.7**	0.93 J	**1.3**	**1.1**	0.37J	ND<0.080	**1.4**	**1.7**	1
Chlorobenzene	**43**	**41**	**55**	**46**	**24**	**25**	**63**	**44**	5
Cis-1,2-dichloroethene	**20**	**31**	**48**	**34**	**38**	**49**	ND<0.18	**7.5**	5
Trans-1,2-dichloroethene	**10**	**18**	**29**	**19**	**20**	**30**	ND<0.13	ND<0.13	5
Trichloroethene (TCE)	**32**	**28**	**29**	**20**	**35**	**27**	ND< 0.90	**9.7**	5
Vinyl chloride	**6.7**	**9.3**	**18**	**6.4**	**2.3**	**4.3**	ND<0.14	**2.9**	2

Note:
ND = Compound Not Detected
Bold = Compound Reported Above GWQC

FIGURES



Legend:

- Existing Monitoring Well
- Existing Piezemeter
- MW-71 Delineation Locations
- MW-24 Delineation Locations

SCALE:	CHECKED BY:		
1"= 30'	NM	ECM environmental compliance monitoring, inc. 349 Route 206, Hillsborough, New Jersey, 08844 908-874-0990	FIGURE 1 MW-71 & MW-24 Delineation Locations
DATE: 8/04/2014	PROJECT NO: 1192		

APPENDIX 1

ANALYTICAL DATA PACKAGE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-70372-1

Job Description: EC, SP 1192

For:
ECM, Inc.
349 Route 206 North
Hillsborough Prof. Bldg.
Hillsborough, NJ 08844

Attention: Mr. Bruce Manganiello

Approved for release.
Sarah E Brown
Project Mgmt. Assistant
2/10/2014 4:10 PM

Designee for
Grace Chang, Project Manager II
777 New Durham Road, Edison, NJ, 08817
(732)593-2579
grace.chang@testamericainc.com
02/10/2014

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: ECM, Inc.

Project: EC, SP 1192

Report Number: 460-70372-1

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 1/29/2014 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1º C.

Except:

All VOC vials received had evidence that they were frozen.

1 VOC vial for sample 460-70372-1 was received with headspace.

The following sample was activated by the client on 02/07/14: 460-70372-2.

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 (GC-MS)

Samples 460-70372-1 and 460-70372-2 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 02/04/2014.

1,4-Dioxane exceeded the rpd limit for the MSD of sample 460-70242-2 in batch .

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: ECM, Inc. Job Number: 460-70372-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-70372-1	TW-1	Water	01/28/2014 0945	01/29/2014 1000
460-70372-2	TW-2	Water	01/28/2014 1015	01/29/2014 1000

EXECUTIVE SUMMARY - Detections

Client: ECM, Inc. Job Number: 460-70372-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-70372-1	**TW-1**					
1,4-Dioxane		470		50	ug/L	624
Acetone		16		5.0	ug/L	624
Benzene		1.4		1.0	ug/L	624
Chlorobenzene		63		1.0	ug/L	624
Methylene Chloride		1.3		1.0	ug/L	624
Toluene		0.36	J	1.0	ug/L	624
460-70372-2	**TW-2**					
1,4-Dioxane		430		50	ug/L	624
Benzene		1.7		1.0	ug/L	624
Chlorobenzene		44		1.0	ug/L	624
cis-1,2-Dichloroethene		7.5		1.0	ug/L	624
Trichloroethene		9.7		1.0	ug/L	624
Vinyl chloride		2.9		1.0	ug/L	624

METHOD SUMMARY

Client: ECM, Inc. Job Number: 460-70372-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL EDI	40CFR136A 624	

Lab References:

TAL EDI = TestAmerica Edison

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

METHOD / ANALYST SUMMARY

Client: ECM, Inc. Job Number: 460-70372-1

Method	Analyst	Analyst ID
40CFR136A 624	Moroney, Christopher J	CJM

Client: ECM, Inc. Job Number: 460-70372-1

Client Sample ID: **TW-1**

Lab Sample ID: 460-70372-1 Date Sampled: 01/28/2014 0945
Client Matrix: Water Date Received: 01/29/2014 1000

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
	N/A	Prep Batch:	N/A	Lab File ID:	A99048.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 2116			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.060	U	0.060	1.0
1,1,2,2-Tetrachloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.19	U	0.19	1.0
1,1-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.090	U	0.090	1.0
1,2-Dichloroethane	0.19	U	0.19	1.0
1,2-Dichloropropane	0.090	U	0.090	1.0
1,4-Dioxane	470		36	50
2-Butanone	2.3	U	2.3	5.0
2-Hexanone	0.50	U	0.50	5.0
MIBK	0.99	U	0.99	5.0
Acetone	16		2.7	5.0
Benzene	1.4		0.080	1.0
Bromodichloromethane	0.12	U	0.12	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.18	U	0.18	1.0
Carbon disulfide	0.13	U	0.13	1.0
Carbon tetrachloride	0.060	U	0.060	1.0
Chlorobenzene	63		0.11	1.0
Chloroethane	0.17	U	0.17	1.0
Chloroform	0.080	U	0.080	1.0
Chloromethane	0.10	U	0.10	1.0
cis-1,2-Dichloroethene	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.18	U	0.18	1.0
Dibromochloromethane	0.20	U	0.20	1.0
Ethylbenzene	0.10	U	0.10	1.0
Methylene Chloride	1.3		0.18	1.0
Styrene	0.12	U	0.12	1.0
Tetrachloroethene	0.10	U	0.10	1.0
Toluene	0.36	J	0.15	1.0
trans-1,2-Dichloroethene	0.13	U	0.13	1.0
trans-1,3-Dichloropropene	0.24	U	0.24	1.0
Trichloroethene	0.090	U	0.090	1.0
Vinyl chloride	0.14	U	0.14	1.0
Xylenes, Total	0.36	U	0.36	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
Bromofluorobenzene	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Client: ECM, Inc. Job Number: 460-70372-1

Client Sample ID: **TW-1**

Lab Sample ID: 460-70372-1 Date Sampled: 01/28/2014 0945
Client Matrix: Water Date Received: 01/29/2014 1000

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
	N/A	Prep Batch:	N/A	Lab File ID:	A99048.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 2116			Final Weight/Volume:	5 mL
Prep Date:	N/A				

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

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
60-29-7	Ethyl ether	2.64	15	J N
95-49-8	Benzene, 1-chloro-2-methyl-	8.62	11	J N

Client: ECM, Inc. Job Number: 460-70372-1

Client Sample ID: **TW-2**

Lab Sample ID: 460-70372-2 Date Sampled: 01/28/2014 1015
Client Matrix: Water Date Received: 01/29/2014 1000

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
	N/A	Prep Batch:	N/A	Lab File ID:	A99049.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 2136			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.060	U	0.060	1.0
1,1,2,2-Tetrachloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.19	U	0.19	1.0
1,1-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.090	U	0.090	1.0
1,2-Dichloroethane	0.19	U	0.19	1.0
1,2-Dichloropropane	0.090	U	0.090	1.0
1,4-Dioxane	430		36	50
2-Butanone	2.3	U	2.3	5.0
2-Hexanone	0.50	U	0.50	5.0
MIBK	0.99	U	0.99	5.0
Acetone	2.7	U	2.7	5.0
Benzene	1.7		0.080	1.0
Bromodichloromethane	0.12	U	0.12	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.18	U	0.18	1.0
Carbon disulfide	0.13	U	0.13	1.0
Carbon tetrachloride	0.060	U	0.060	1.0
Chlorobenzene	44		0.11	1.0
Chloroethane	0.17	U	0.17	1.0
Chloroform	0.080	U	0.080	1.0
Chloromethane	0.10	U	0.10	1.0
cis-1,2-Dichloroethene	7.5		0.18	1.0
cis-1,3-Dichloropropene	0.18	U	0.18	1.0
Dibromochloromethane	0.20	U	0.20	1.0
Ethylbenzene	0.10	U	0.10	1.0
Methylene Chloride	0.18	U	0.18	1.0
Styrene	0.12	U	0.12	1.0
Tetrachloroethene	0.10	U	0.10	1.0
Toluene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.13	U	0.13	1.0
trans-1,3-Dichloropropene	0.24	U	0.24	1.0
Trichloroethene	9.7		0.090	1.0
Vinyl chloride	2.9		0.14	1.0
Xylenes, Total	0.36	U	0.36	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		70 - 130
Bromofluorobenzene	111		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	120		70 - 130

Client: ECM, Inc. Job Number: 460-70372-1

Client Sample ID: **TW-2**

Lab Sample ID: 460-70372-2 Date Sampled: 01/28/2014 1015
Client Matrix: Water Date Received: 01/29/2014 1000

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
	N/A	Prep Batch:	N/A	Lab File ID:	A99049.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 2136			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
60-29-7	Ethyl ether	2.64	9.7	J N

Client: ECM, Inc.

Job Number: 460-70372-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
460-70372-1	TW-1	106	116	98	102
460-70372-2	TW-2	120	122	102	111
MB 460-205851/7		108	113	100	106
MB 460-205851/36		110	116	106	110
LCS 460-205851/33		104	114	105	98
460-70242-A-2 MS		98	102	90	91
460-70242-A-2 MSD		103	108	96	96

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: ECM, Inc.

Job Number: 460-70372-1

Method Blank - Batch: 460-205851

Method: 624
Preparation: N/A

Lab Sample ID:	MB 460-205851/7	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 0827	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.060	U	0.060	1.0
1,1,2,2-Tetrachloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.19	U	0.19	1.0
1,1-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.090	U	0.090	1.0
1,2-Dichloroethane	0.19	U	0.19	1.0
1,2-Dichloropropane	0.090	U	0.090	1.0
1,4-Dioxane	36	U	36	50
2-Butanone	2.3	U	2.3	5.0
2-Hexanone	0.50	U	0.50	5.0
MIBK	0.99	U	0.99	5.0
Acetone	2.7	U	2.7	5.0
Benzene	0.080	U	0.080	1.0
Bromodichloromethane	0.12	U	0.12	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.18	U	0.18	1.0
Carbon disulfide	0.13	U	0.13	1.0
Carbon tetrachloride	0.060	U	0.060	1.0
Chlorobenzene	0.11	U	0.11	1.0
Chloroethane	0.17	U	0.17	1.0
Chloroform	0.080	U	0.080	1.0
Chloromethane	0.10	U	0.10	1.0
cis-1,2-Dichloroethene	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.18	U	0.18	1.0
Dibromochloromethane	0.20	U	0.20	1.0
Ethylbenzene	0.10	U	0.10	1.0
Methylene Chloride	0.18	U	0.18	1.0
Styrene	0.12	U	0.12	1.0
Tetrachloroethene	0.10	U	0.10	1.0
Toluene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.13	U	0.13	1.0
trans-1,3-Dichloropropene	0.24	U	0.24	1.0
Trichloroethene	0.090	U	0.090	1.0
Vinyl chloride	0.14	U	0.14	1.0
Xylenes, Total	0.36	U	0.36	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113	70 - 130
Bromofluorobenzene	106	70 - 130
Toluene-d8 (Surr)	100	70 - 130
Dibromofluoromethane (Surr)	108	70 - 130

Client: ECM, Inc. Job Number: 460-70372-1

Method Blank TICs- Batch: 460-205851

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

Client: ECM, Inc.

Job Number: 460-70372-1

Method Blank - Batch: 460-205851

Method: 624
Preparation: N/A

Lab Sample ID:	MB 460-205851/36	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99040.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 1837	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.060	U	0.060	1.0
1,1,2,2-Tetrachloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.19	U	0.19	1.0
1,1-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.090	U	0.090	1.0
1,2-Dichloroethane	0.19	U	0.19	1.0
1,2-Dichloropropane	0.090	U	0.090	1.0
1,4-Dioxane	36	U	36	50
2-Butanone	2.3	U	2.3	5.0
2-Hexanone	0.50	U	0.50	5.0
MIBK	0.99	U	0.99	5.0
Acetone	2.7	U	2.7	5.0
Benzene	0.080	U	0.080	1.0
Bromodichloromethane	0.12	U	0.12	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.18	U	0.18	1.0
Carbon disulfide	0.13	U	0.13	1.0
Carbon tetrachloride	0.060	U	0.060	1.0
Chlorobenzene	0.11	U	0.11	1.0
Chloroethane	0.17	U	0.17	1.0
Chloroform	0.080	U	0.080	1.0
Chloromethane	0.10	U	0.10	1.0
cis-1,2-Dichloroethene	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.18	U	0.18	1.0
Dibromochloromethane	0.20	U	0.20	1.0
Ethylbenzene	0.10	U	0.10	1.0
Methylene Chloride	0.18	U	0.18	1.0
Styrene	0.12	U	0.12	1.0
Tetrachloroethene	0.10	U	0.10	1.0
Toluene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.13	U	0.13	1.0
trans-1,3-Dichloropropene	0.24	U	0.24	1.0
Trichloroethene	0.090	U	0.090	1.0
Vinyl chloride	0.14	U	0.14	1.0
Xylenes, Total	0.36	U	0.36	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116	70 - 130
Bromofluorobenzene	110	70 - 130
Toluene-d8 (Surr)	106	70 - 130
Dibromofluoromethane (Surr)	110	70 - 130

Client: ECM, Inc. Job Number: 460-70372-1

Method Blank TICs- Batch: 460-205851

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

Lab Control Sample - Batch: 460-205851

Method: 624
Preparation: N/A

Lab Sample ID:	LCS 460-205851/33	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99037.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 1738	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	20.0	20.1	100	52 - 162	
1,1,2,2-Tetrachloroethane	20.0	18.2	91	46 - 157	
1,1,2-Trichloroethane	20.0	19.4	97	52 - 150	
1,1-Dichloroethane	20.0	20.7	103	59 - 155	
1,1-Dichloroethene	20.0	20.3	102	0 - 234	
1,2-Dichloroethane	20.0	21.0	105	49 - 155	
1,2-Dichloropropane	20.0	20.4	102	0 - 210	
1,4-Dioxane	400	353	88	20 - 150	
2-Butanone	100	83.3	83	41 - 150	
2-Hexanone	100	105	105	40 - 150	
MIBK	100	108	108	38 - 149	
Acetone	100	85.7	86	13 - 150	
Benzene	20.0	19.6	98	37 - 151	
Bromodichloromethane	20.0	20.1	101	35 - 150	
Bromoform	20.0	17.8	89	45 - 169	
Bromomethane	20.0	22.2	111	0 - 242	
Carbon disulfide	20.0	21.4	107	52 - 144	
Carbon tetrachloride	20.0	20.2	101	70 - 140	
Chlorobenzene	20.0	18.2	91	37 - 160	
Chloroethane	20.0	22.1	111	14 - 230	
Chloroform	20.0	19.8	99	51 - 138	
Chloromethane	20.0	23.8	119	0 - 273	
cis-1,2-Dichloroethene	20.0	18.5	92	72 - 131	
cis-1,3-Dichloropropene	20.0	18.9	94	0 - 227	
Dibromochloromethane	20.0	18.7	94	53 - 149	
Ethylbenzene	20.0	17.5	87	37 - 162	
Methylene Chloride	20.0	19.9	99	0 - 221	
Styrene	20.0	17.5	88	78 - 129	
Tetrachloroethene	20.0	19.1	96	64 - 148	
Toluene	20.0	18.8	94	47 - 150	
trans-1,2-Dichloroethene	20.0	20.6	103	54 - 156	
trans-1,3-Dichloropropene	20.0	19.8	99	17 - 183	
Trichloroethene	20.0	22.1	111	71 - 157	
Vinyl chloride	20.0	22.3	111	0 - 251	
Xylenes, Total	40.0	36.1	90	79 - 125	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	70 - 130
Bromofluorobenzene	98	70 - 130
Toluene-d8 (Surr)	105	70 - 130

Client: ECM, Inc. Job Number: 460-70372-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-205851

Method: 624
Preparation: N/A

MS Lab Sample ID:	460-70242-A-2 MS	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99042.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 1917			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	460-70242-A-2 MSD	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99043.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 1937			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	110	106	52 - 162	3	30		
1,1,2,2-Tetrachloroethane	108	104	46 - 157	4	30		
1,1,2-Trichloroethane	100	100	52 - 150	1	30		
1,1-Dichloroethane	118	112	59 - 155	5	30		
1,1-Dichloroethene	115	113	0 - 234	1	30		
1,2-Dichloroethane	111	107	49 - 155	4	30		
1,2-Dichloropropane	109	104	0 - 210	5	30		
1,4-Dioxane	90	137	20 - 150	41	30		F2
2-Butanone	80	80	41 - 150	1	30		
2-Hexanone	112	108	40 - 150	3	30		
MIBK	122	117	38 - 149	5	30		
Acetone	78	75	13 - 150	3	30		
Benzene	105	102	37 - 151	3	30		
Bromodichloromethane	99	96	35 - 150	3	30		
Bromoform	80	85	45 - 169	6	30		
Bromomethane	108	110	0 - 242	1	30		
Carbon disulfide	90	96	52 - 144	6	30		
Carbon tetrachloride	108	104	70 - 140	4	30		
Chlorobenzene	97	95	37 - 160	2	30		
Chloroethane	114	114	14 - 230	0	30		
Chloroform	115	105	51 - 138	9	30		
Chloromethane	119	123	0 - 273	3	30		
cis-1,2-Dichloroethene	104	103	72 - 131	1	30		
cis-1,3-Dichloropropene	84	86	0 - 227	2	30		
Dibromochloromethane	88	88	53 - 149	0	30		
Ethylbenzene	97	95	37 - 162	1	30		
Methylene Chloride	111	105	0 - 221	6	30		
Styrene	95	95	78 - 129	1	30		
Tetrachloroethene	103	98	64 - 148	5	30		
Toluene	101	98	47 - 150	3	30		
trans-1,2-Dichloroethene	107	106	54 - 156	1	30		
trans-1,3-Dichloropropene	95	93	17 - 183	2	30		
Trichloroethene	105	104	71 - 157	1	30		

Client: ECM, Inc. Job Number: 460-70372-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-205851

Method: 624
Preparation: N/A

MS Lab Sample ID:	460-70242-A-2 MS	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99042.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 1917			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	460-70242-A-2 MSD	Analysis Batch:	460-205851	Instrument ID:	CVOAMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	A99043.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/04/2014 1937			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl chloride	113	119	0 - 251	5	30		
Xylenes, Total	98	96	79 - 125	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	108	70 - 130
Bromofluorobenzene	91	96	70 - 130
Toluene-d8 (Surr)	90	96	70 - 130

Client: ECM, Inc.

Job Number: 460-70372-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-205851

Method: 624
Preparation: N/A

MS Lab Sample ID:	460-70242-A-2 MS	Units:	ug/L	MSD Lab Sample ID:	460-70242-A-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	10			Dilution:	10
Analysis Date:	02/04/2014 1917			Analysis Date:	02/04/2014 1937
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
1,1,1-Trichloroethane	0.060	U	200	200	219	213	
1,1,2,2-Tetrachloroethane	0.16	U	200	200	216	207	
1,1,2-Trichloroethane	0.19	U	200	200	201	200	
1,1-Dichloroethane	0.13	U	200	200	236	224	
1,1-Dichloroethene	0.090	U	200	200	229	226	
1,2-Dichloroethane	0.19	U	200	200	221	213	
1,2-Dichloropropane	0.090	U	200	200	219	208	
1,4-Dioxane	36	U	4000	4000	3610	5490	F2
2-Butanone	2.3	U	1000	1000	802	796	
2-Hexanone	0.50	U	1000	1000	1120	1080	
MIBK	0.99	U	1000	1000	1220	1170	
Acetone	2.7	U	1000	1000	778	751	
Benzene	0.080	U	200	200	209	204	
Bromodichloromethane	0.12	U	200	200	197	191	
Bromoform	0.19	U	200	200	160	170	
Bromomethane	0.18	U	200	200	216	220	
Carbon disulfide	0.13	U	200	200	180	191	
Carbon tetrachloride	0.060	U	200	200	216	207	
Chlorobenzene	0.11	U	200	200	194	190	
Chloroethane	0.17	U	200	200	228	228	
Chloroform	0.080	U	200	200	230	210	
Chloromethane	0.10	U	200	200	239	247	
cis-1,2-Dichloroethene	0.18	U	200	200	208	207	
cis-1,3-Dichloropropene	0.18	U	200	200	169	172	
Dibromochloromethane	0.20	U	200	200	176	176	
Ethylbenzene	0.10	U	200	200	193	191	
Methylene Chloride	0.18	U	200	200	223	210	
Styrene	0.12	U	200	200	191	189	
Tetrachloroethene	0.10	U	200	200	205	195	
Toluene	0.15	U	200	200	203	197	
trans-1,2-Dichloroethene	0.13	U	200	200	214	212	
trans-1,3-Dichloropropene	0.24	U	200	200	189	186	
Trichloroethene	0.090	U	200	200	209	207	
Vinyl chloride	0.14	U	200	200	227	238	
Xylenes, Total	0.36	U	400	400	391	382	

DATA REPORTING QUALIFIERS

Client: ECM, Inc. Job Number: 460-70372-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Indicates an Estimated Value for TICs
	U	Indicates the analyte was analyzed for but not detected.
	F2	MS/MSD RPD exceeds control limits
	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: ECM, Inc. Job Number: 460-70372-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:460-205851					
LCS 460-205851/33	Lab Control Sample	T	Water	624	
MB 460-205851/36	Method Blank	T	Water	624	
MB 460-205851/7	Method Blank	T	Water	624	
460-70242-A-2 MS	Matrix Spike	T	Water	624	
460-70242-A-2 MSD	Matrix Spike Duplicate	T	Water	624	
460-70372-1	TW-1	T	Water	624	
460-70372-2	TW-2	T	Water	624	

Report Basis
T = Total

Client: ECM, Inc. Job Number: 460-70372-1

Laboratory Chronicle

Lab ID: 460-70372-1 **Client ID:** TW-1

Sample Date/Time: 01/28/2014 09:45 Received Date/Time: 01/29/2014 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	460-70372-A-1		460-205851		02/04/2014 21:16	1	TAL EDI	CJM

Lab ID: 460-70372-2 **Client ID:** TW-2

Sample Date/Time: 01/28/2014 10:15 Received Date/Time: 01/29/2014 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	460-70372-B-2		460-205851		02/04/2014 21:36	1	TAL EDI	CJM

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
A:624	MB 460-205851/7		460-205851		02/04/2014 08:27	1	TAL EDI	CJM
A:624	MB 460-205851/36		460-205851		02/04/2014 18:37	1	TAL EDI	CJM

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
A:624	LCS 460-205851/33		460-205851		02/04/2014 17:38	1	TAL EDI	CJM

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

Sample Date/Time: 01/24/2014 12:00 Received Date/Time: 01/24/2014 19:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	460-70242-A-2 MS		460-205851		02/04/2014 19:17	10	TAL EDI	CJM

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

Sample Date/Time: 01/24/2014 12:00 Received Date/Time: 01/24/2014 19:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	460-70242-A-2 MSD		460-205851		02/04/2014 19:37	10	TAL EDI	CJM

Lab References:
TAL EDI = TestAmerica Edison

Method 624

Volatile Organic Compounds (GC/MS) by Method 624

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-70372-1

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 #
TW-1	460-70372-1	106	116	98	102
TW-2	460-70372-2	120	122	102	111
	MB 460-205851/7	108	113	100	106
	MB 460-205851/36	110	116	106	110
	LCS 460-205851/33	104	114	105	98
	460-70242-A-2 MS	98	102	90	91
	460-70242-A-2 MSD	103	108	96	96

	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 624

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A99037.D

Lab ID: LCS 460-205851/33 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.1	100	52-162	
1,1,2,2-Tetrachloroethane	20.0	18.2	91	46-157	
1,1,2-Trichloroethane	20.0	19.4	97	52-150	
1,1-Dichloroethane	20.0	20.7	103	59-155	
1,1-Dichloroethene	20.0	20.3	102	0-234	
1,2-Dichloroethane	20.0	21.0	105	49-155	
1,2-Dichloropropane	20.0	20.4	102	0-210	
1,4-Dioxane	400	353	88	20-150	
2-Butanone	100	83.3	83	41-150	
2-Hexanone	100	105	105	40-150	
MIBK	100	108	108	38-149	
Acetone	100	85.7	86	13-150	
Benzene	20.0	19.6	98	37-151	
Bromodichloromethane	20.0	20.1	101	35-150	
Bromoform	20.0	17.8	89	45-169	
Bromomethane	20.0	22.2	111	0-242	
Carbon disulfide	20.0	21.4	107	52-144	
Carbon tetrachloride	20.0	20.2	101	70-140	
Chlorobenzene	20.0	18.2	91	37-160	
Chloroethane	20.0	22.1	111	14-230	
Chloroform	20.0	19.8	99	51-138	
Chloromethane	20.0	23.8	119	0-273	
cis-1,2-Dichloroethene	20.0	18.5	92	72-131	
cis-1,3-Dichloropropene	20.0	18.9	94	0-227	
Dibromochloromethane	20.0	18.7	94	53-149	
Ethylbenzene	20.0	17.5	87	37-162	
Methylene Chloride	20.0	19.9	99	0-221	
Styrene	20.0	17.5	88	78-129	
Tetrachloroethene	20.0	19.1	96	64-148	
Toluene	20.0	18.8	94	47-150	
trans-1,2-Dichloroethene	20.0	20.6	103	54-156	
trans-1,3-Dichloropropene	20.0	19.8	99	17-183	
Trichloroethene	20.0	22.1	111	71-157	
Vinyl chloride	20.0	22.3	111	0-251	
Xylenes, Total	40.0	36.1	90	79-125	

Column to be used to flag recovery and RPD values

FORM III 624

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A99042.D

Lab ID: 460-70242-A-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	200	0.060 U	219	110	52-162	
1,1,2,2-Tetrachloroethane	200	0.16 U	216	108	46-157	
1,1,2-Trichloroethane	200	0.19 U	201	100	52-150	
1,1-Dichloroethane	200	0.13 U	236	118	59-155	
1,1-Dichloroethene	200	0.090 U	229	115	0-234	
1,2-Dichloroethane	200	0.19 U	221	111	49-155	
1,2-Dichloropropane	200	0.090 U	219	109	0-210	
1,4-Dioxane	4000	36 U	3610	90	20-150	
2-Butanone	1000	2.3 U	802	80	41-150	
2-Hexanone	1000	0.50 U	1120	112	40-150	
MIBK	1000	0.99 U	1220	122	38-149	
Acetone	1000	2.7 U	778	78	13-150	
Benzene	200	0.080 U	209	105	37-151	
Bromodichloromethane	200	0.12 U	197	99	35-150	
Bromoform	200	0.19 U	160	80	45-169	
Bromomethane	200	0.18 U	216	108	0-242	
Carbon disulfide	200	0.13 U	180	90	52-144	
Carbon tetrachloride	200	0.060 U	216	108	70-140	
Chlorobenzene	200	0.11 U	194	97	37-160	
Chloroethane	200	0.17 U	228	114	14-230	
Chloroform	200	0.080 U	230	115	51-138	
Chloromethane	200	0.10 U	239	119	0-273	
cis-1,2-Dichloroethene	200	0.18 U	208	104	72-131	
cis-1,3-Dichloropropene	200	0.18 U	169	84	0-227	
Dibromochloromethane	200	0.20 U	176	88	53-149	
Ethylbenzene	200	0.10 U	193	97	37-162	
Methylene Chloride	200	0.18 U	223	111	0-221	
Styrene	200	0.12 U	191	95	78-129	
Tetrachloroethene	200	0.10 U	205	103	64-148	
Toluene	200	0.15 U	203	101	47-150	
trans-1,2-Dichloroethene	200	0.13 U	214	107	54-156	
trans-1,3-Dichloropropene	200	0.24 U	189	95	17-183	
Trichloroethene	200	0.090 U	209	105	71-157	
Vinyl chloride	200	0.14 U	227	113	0-251	
Xylenes, Total	400	0.36 U	391	98	79-125	

Column to be used to flag recovery and RPD values

FORM III 624

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A99043.D

Lab ID: 460-70242-A-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	200	213	106	3	30	52-162	
1,1,2,2-Tetrachloroethane	200	207	104	4	30	46-157	
1,1,2-Trichloroethane	200	200	100	1	30	52-150	
1,1-Dichloroethane	200	224	112	5	30	59-155	
1,1-Dichloroethene	200	226	113	1	30	0-234	
1,2-Dichloroethane	200	213	107	4	30	49-155	
1,2-Dichloropropane	200	208	104	5	30	0-210	
1,4-Dioxane	4000	5490	137	41	30	20-150	F2
2-Butanone	1000	796	80	1	30	41-150	
2-Hexanone	1000	1080	108	3	30	40-150	
MIBK	1000	1170	117	5	30	38-149	
Acetone	1000	751	75	3	30	13-150	
Benzene	200	204	102	3	30	37-151	
Bromodichloromethane	200	191	96	3	30	35-150	
Bromoform	200	170	85	6	30	45-169	
Bromomethane	200	220	110	1	30	0-242	
Carbon disulfide	200	191	96	6	30	52-144	
Carbon tetrachloride	200	207	104	4	30	70-140	
Chlorobenzene	200	190	95	2	30	37-160	
Chloroethane	200	228	114	0	30	14-230	
Chloroform	200	210	105	9	30	51-138	
Chloromethane	200	247	123	3	30	0-273	
cis-1,2-Dichloroethene	200	207	103	1	30	72-131	
cis-1,3-Dichloropropene	200	172	86	2	30	0-227	
Dibromochloromethane	200	176	88	0	30	53-149	
Ethylbenzene	200	191	95	1	30	37-162	
Methylene Chloride	200	210	105	6	30	0-221	
Styrene	200	189	95	1	30	78-129	
Tetrachloroethene	200	195	98	5	30	64-148	
Toluene	200	197	98	3	30	47-150	
trans-1,2-Dichloroethene	200	212	106	1	30	54-156	
trans-1,3-Dichloropropene	200	186	93	2	30	17-183	
Trichloroethene	200	207	104	1	30	71-157	
Vinyl chloride	200	238	119	5	30	0-251	
Xylenes, Total	400	382	96	2	30	79-125	

Column to be used to flag recovery and RPD values

FORM III 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab File ID: A99011.D Lab Sample ID: MB 460-205851/7

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

Instrument ID: CVOAMS1 Date Analyzed: 02/04/2014 08:27

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 460-205851/33	A99037.D	02/04/2014 17:38

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab File ID: A99040.D Lab Sample ID: MB 460-205851/36

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

Instrument ID: CVOAMS1 Date Analyzed: 02/04/2014 18:37

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
	460-70242-A-2 MS	A99042.D	02/04/2014 19:17
	460-70242-A-2 MSD	A99043.D	02/04/2014 19:37
TW-1	460-70372-1	A99048.D	02/04/2014 21:16
TW-2	460-70372-2	A99049.D	02/04/2014 21:36

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab File ID: A98625.D BFB Injection Date: 01/27/2014

Instrument ID: CVOAMS1 BFB Injection Time: 02:11

Analysis Batch No.: 204517

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	64.9	
175	5.0 - 9.0 % of mass 174	5.2	(8.1)1
176	95.0 - 101.0 % of mass 174	63.9	(98.5)1
177	5.0 - 9.0 % of mass 176	4.3	(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
	STD20 460-204517/3	A98627.D	01/27/2014	02:53
	STD1 460-204517/7	A98631.D	01/27/2014	04:14
	STD5 460-204517/8	A98632.D	01/27/2014	04:34
	STD50 460-204517/9	A98633.D	01/27/2014	04:55
	STD200 460-204517/10	A98634.D	01/27/2014	05:15
	STD500 460-204517/11	A98635.D	01/27/2014	05:35

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab File ID: A99005.D BFB Injection Date: 02/04/2014

Instrument ID: CVOAMS1 BFB Injection Time: 06:04

Analysis Batch No.: 205851

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	59.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.6	
175	5.0 - 9.0 % of mass 174	4.3	(6.5)1
176	95.0 - 101.0 % of mass 174	63.1	(96.3)1
177	5.0 - 9.0 % of mass 176	4.0	(6.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-205851/3	A99007.D	02/04/2014	06:46
	MB 460-205851/7	A99011.D	02/04/2014	08:27
	LCS 460-205851/33	A99037.D	02/04/2014	17:38
	MB 460-205851/36	A99040.D	02/04/2014	18:37
	460-70242-A-2 MS	A99042.D	02/04/2014	19:17
	460-70242-A-2 MSD	A99043.D	02/04/2014	19:37
TW-1	460-70372-1	A99048.D	02/04/2014	21:16
TW-2	460-70372-2	A99049.D	02/04/2014	21:36

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Sample No.: CCVIS 460-205851/3 Date Analyzed: 02/04/2014 06:46

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): A99007.D Heated Purge: (Y/N) N

Calibration ID: 34657

		TBA		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		108570	3.37	193892	5.19	11194	5.73
UPPER LIMIT		217140	3.87	387784	5.69	22388	6.23
LOWER LIMIT		54285	2.87	96946	4.69	5597	5.23
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-205851/7		104681	3.36	199632	5.20	9193	5.73
LCS 460-205851/33		100276	3.37	209584	5.20	8931	5.73
MB 460-205851/36		100273	3.35	175589	5.19	7441	5.72
460-70242-A-2 MS		101000	3.37	191966	5.20	9576	5.73
460-70242-A-2 MSD		97933	3.37	197914	5.20	8633	5.72
460-70372-1	TW-1	103507	3.35	171114	5.19	7673	5.72
460-70372-2	TW-2	101014	3.35	167973	5.19	7379	5.72

TBA = TBA-d9 (IS)
FB = Fluorobenzene
DXE = 1,4-Dioxane-d8

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 624

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Sample No.: CCVIS 460-205851/3 Date Analyzed: 02/04/2014 06:46

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): A99007.D Heated Purge: (Y/N) N

Calibration ID: 34657

		CBZ		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		127354	7.69	74993	9.08		
UPPER LIMIT		254708	8.19	149986	9.58		
LOWER LIMIT		63677	7.19	37497	8.58		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-205851/7		127876	7.69	67245	9.09		
LCS 460-205851/33		133583	7.69	76642	9.08		
MB 460-205851/36		111736	7.69	60564	9.09		
460-70242-A-2 MS		122202	7.69	68919	9.08		
460-70242-A-2 MSD		127045	7.69	71626	9.08		
460-70372-1	TW-1	109747	7.69	60629	9.07		
460-70372-2	TW-2	109448	7.69	58134	9.08		

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: TW-1 | Lab Sample ID: 460-70372-1

Matrix: Water | Lab File ID: A99048.D

Analysis Method: 624 | Date Collected: 01/28/2014 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 21:16

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.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
123-91-1	1,4-Dioxane	470		50	36
78-93-3	2-Butanone	2.3	U	5.0	2.3
591-78-6	2-Hexanone	0.50	U	5.0	0.50
108-10-1	MIBK	0.99	U	5.0	0.99
67-64-1	Acetone	16		5.0	2.7
71-43-2	Benzene	1.4		1.0	0.080
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
108-90-7	Chlorobenzene	63		1.0	0.11
75-00-3	Chloroethane	0.17	U	1.0	0.17
67-66-3	Chloroform	0.080	U	1.0	0.080
74-87-3	Chloromethane	0.10	U	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
75-09-2	Methylene Chloride	1.3		1.0	0.18
100-42-5	Styrene	0.12	U	1.0	0.12
127-18-4	Tetrachloroethene	0.10	U	1.0	0.10
108-88-3	Toluene	0.36	J	1.0	0.15
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
79-01-6	Trichloroethene	0.090	U	1.0	0.090
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
1330-20-7	Xylenes, Total	0.36	U	2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: TW-1 Lab Sample ID: 460-70372-1

Matrix: Water Lab File ID: A99048.D

Analysis Method: 624 Date Collected: 01/28/2014 09:45

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 21:16

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.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		70-130
460-00-4	Bromofluorobenzene	102		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

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

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: TW-1 | Lab Sample ID: 460-70372-1

Matrix: Water | Lab File ID: A99048.D

Analysis Method: 624 | Date Collected: 01/28/2014 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 21:16

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.: 205851 | Units: ug/L

Number TICs Found: 2 | TIC Result Total: 26

CAS NO.	COMPOUND NAME	RT	RESULT	Q
60-29-7	Ethyl ether	2.64	15	J N
95-49-8	Benzene, 1-chloro-2-methyl-	8.62	11	J N

Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D
Lims ID: 460-70372-A-1 Lab Sample ID: 460-70372-1
Client ID: TW-1
Sample Type: Client
Inject. Date: 04-Feb-2014 21:16:30 ALS Bottle#: 31 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-70372-A-1
Misc. Info.: 460-0009480-044
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 05-Feb-2014 10:14:14 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: moroneyc Date: 05-Feb-2014 06:53:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
21 Acetone	43	2.953	2.966	-0.013	69	7930	16.2	
27 Methylene Chloride	84	3.325	3.325	0.0	26	1662	1.30	
* 28 TBA-d9 (IS)	65	3.350	3.368	-0.018	89	103507	1000.0	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.703	0.0	41	46384	53.2	
55 Benzene	78	4.971	4.971	0.0	42	7052	1.44	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.977	0.007	71	62501	58.2	
* 62 Fluorobenzene	96	5.191	5.191	0.0	98	171114	50.0	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	1	7673	1000.0	
71 1,4-Dioxane	88	5.764	5.764	0.0	61	3408	474.4	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	97	170945	48.8	
80 Toluene	91	6.581	6.587	-0.006	20	1671	0.3558	M
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	88	109747	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	89	173557	62.7	
96 o-Xylene	106	8.099	8.099	0.0	33	473	0.2291	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	81	47139	50.9	
* 117 1,4-Dichlorobenzene-d4	152	9.074	9.080	-0.006	98	60629	50.0	
S 137 Xylenes, Total	100				0		0.2291	

QC Flag Legend

Review Flags
M - Manually Integrated

TestAmerica Edison
Tentatively Identified Quantitation Report

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D				
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2014 21:16:30	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-70372-A-1				
Misc. Info.:	460-0009480-044				
Operator ID:	VOA GC/MS1	Instrument ID:	CVOAMS1		
Method:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m				
Limit Group:	VOA 624 ICAL				
Last Update:	05-Feb-2014 10:14:14	Calib Date:	27-Jan-2014 05:35:30		
Tic RT Window:	0.000 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\EDICHROM\ChromData\Database\NIST02.L				
Min. Match:	80				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: moroneyc		Date:	05-Feb-2014 06:53:16		

Tentative Identified Compound Results

RT	Response	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
60-29-7 Ethyl ether								
2.643	111393	14.7	62	90	824	C4H10O	74	
95-49-8 Benzene, 1-chloro-2-methyl-								
8.623	87384	10.7	117	96	10920	C7H7Cl	126	

Quantitation Compounds

Compound	RT	Response	Amount ug/l
* 62 Fluorobenzene	5.191	380095	50.0
* 117 1,4-Dichlorobenzene-d4	9.074	407219	50.0

QC Flag Legend

Processing Flags

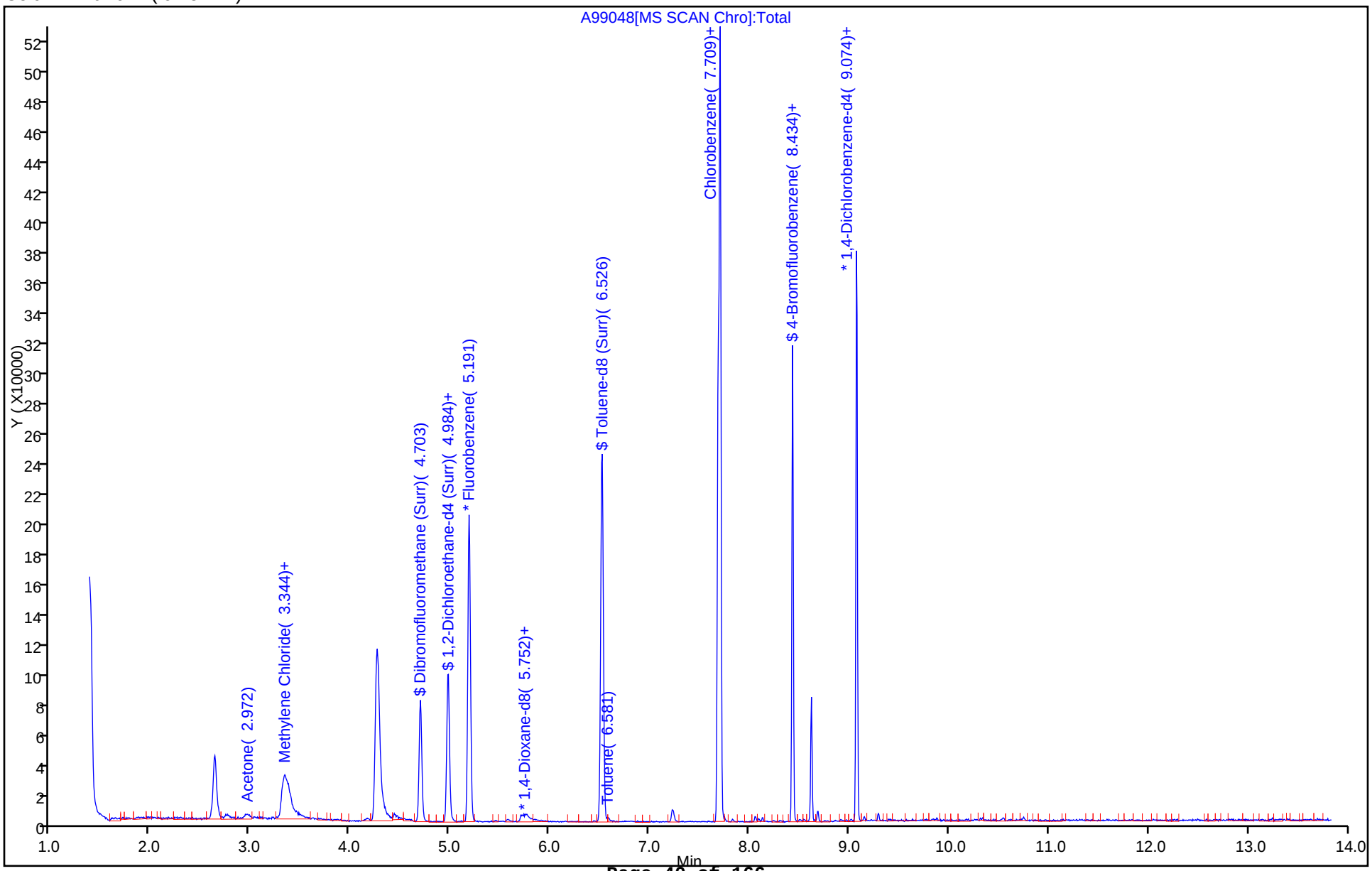
Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1	Worklist Smp#:	44
Client ID:	TW-1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)

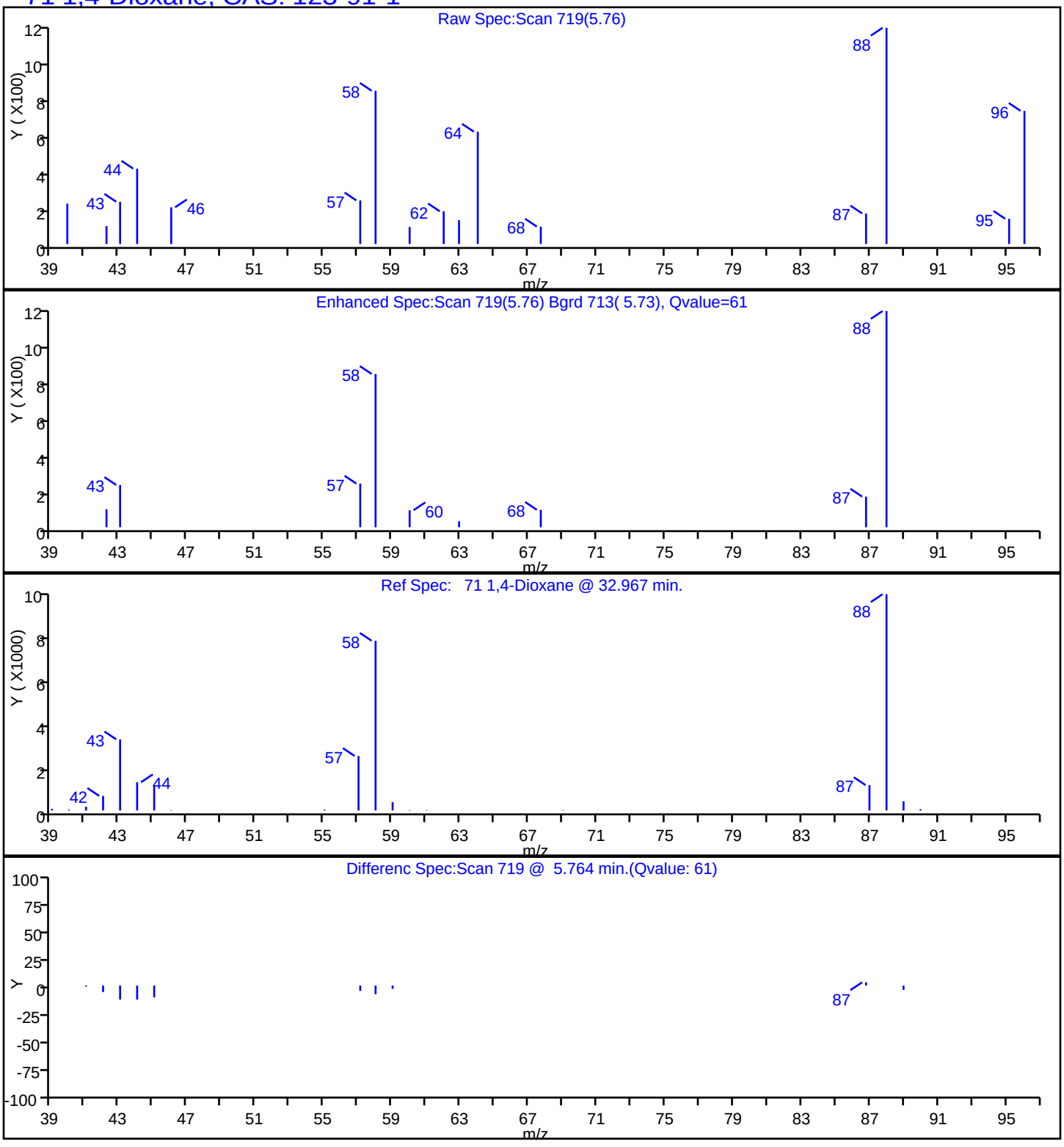


Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D				
Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

71 1,4-Dioxane, CAS: 123-91-1



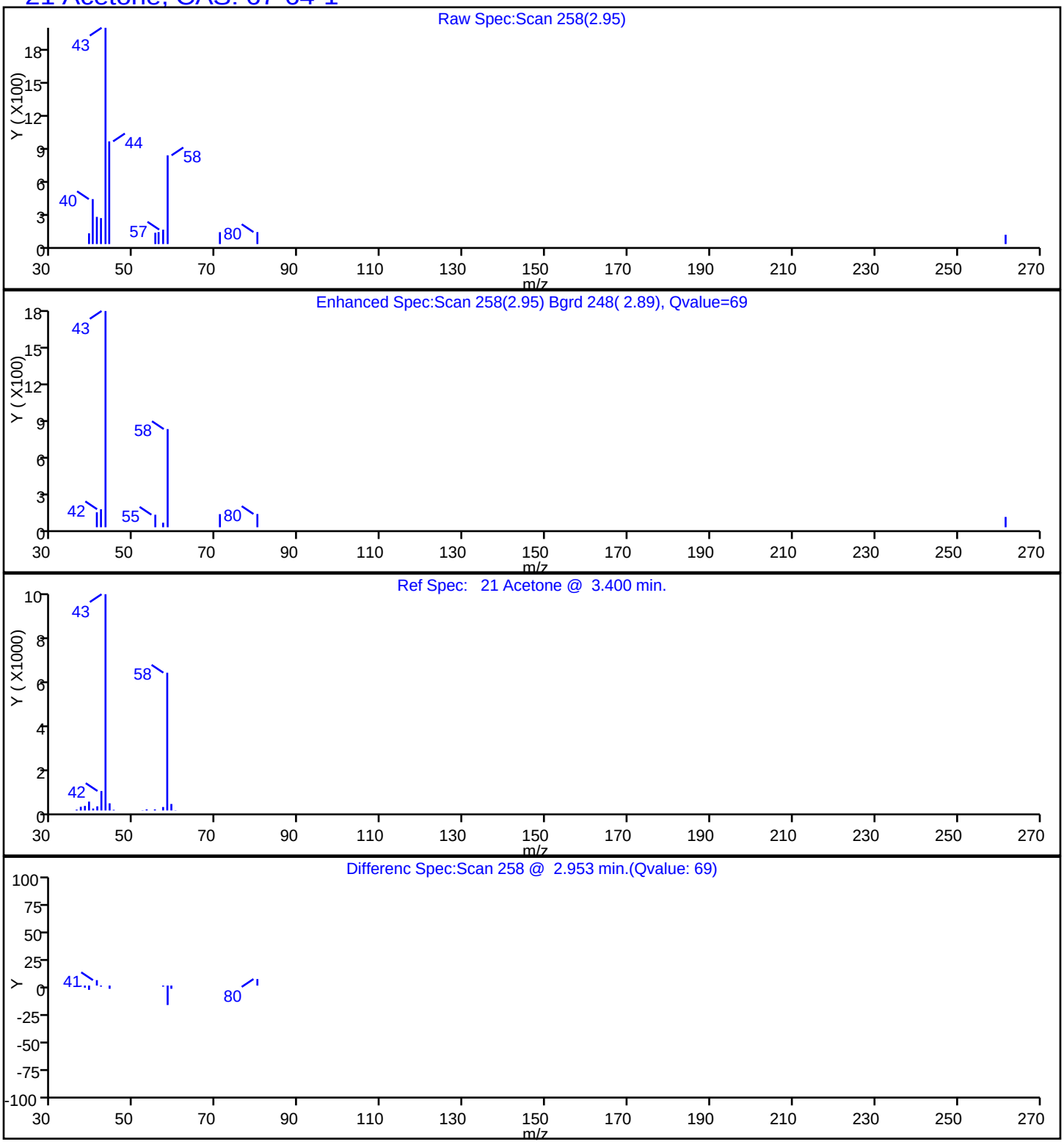
Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

21 Acetone, CAS: 67-64-1



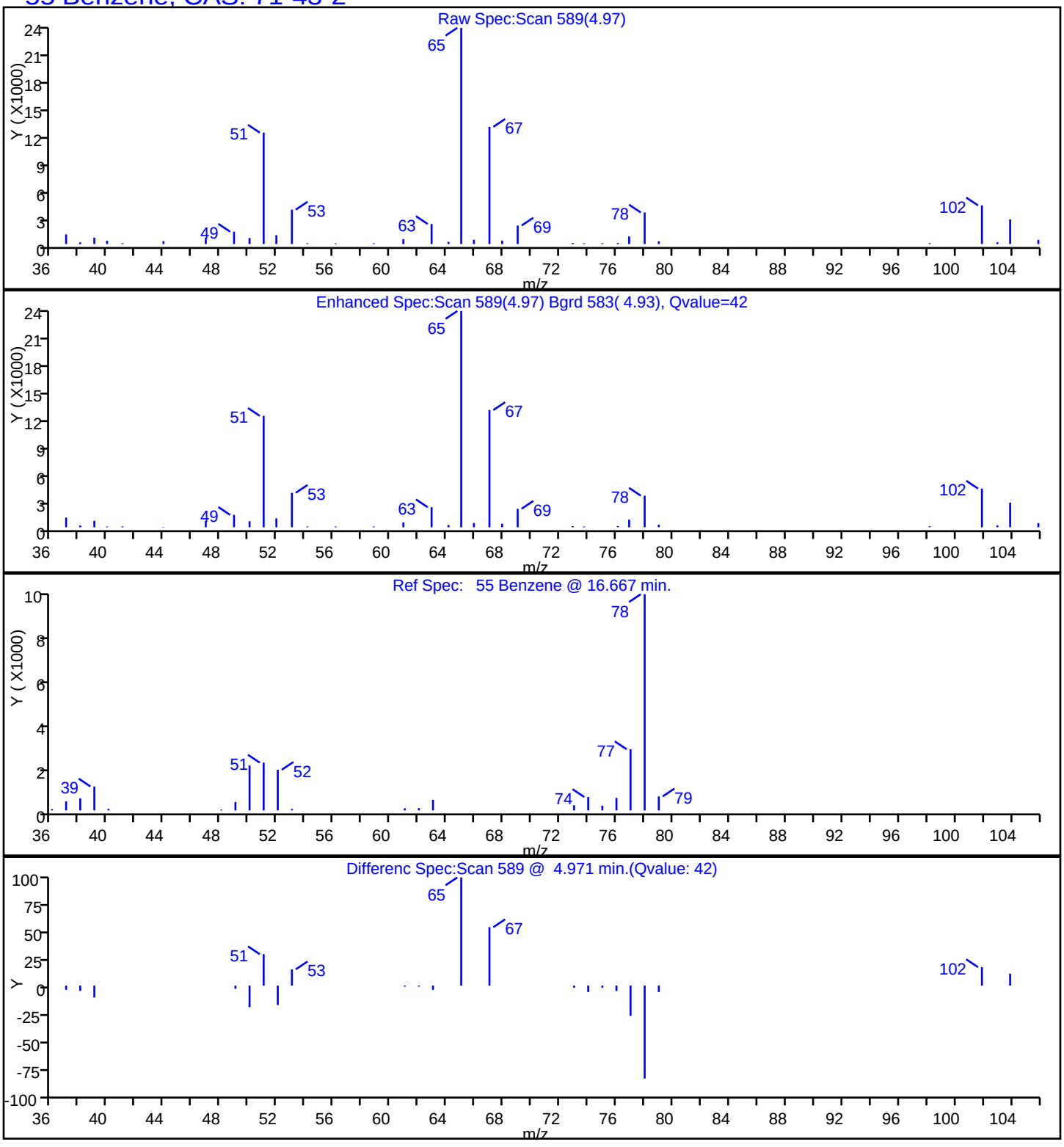
Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2



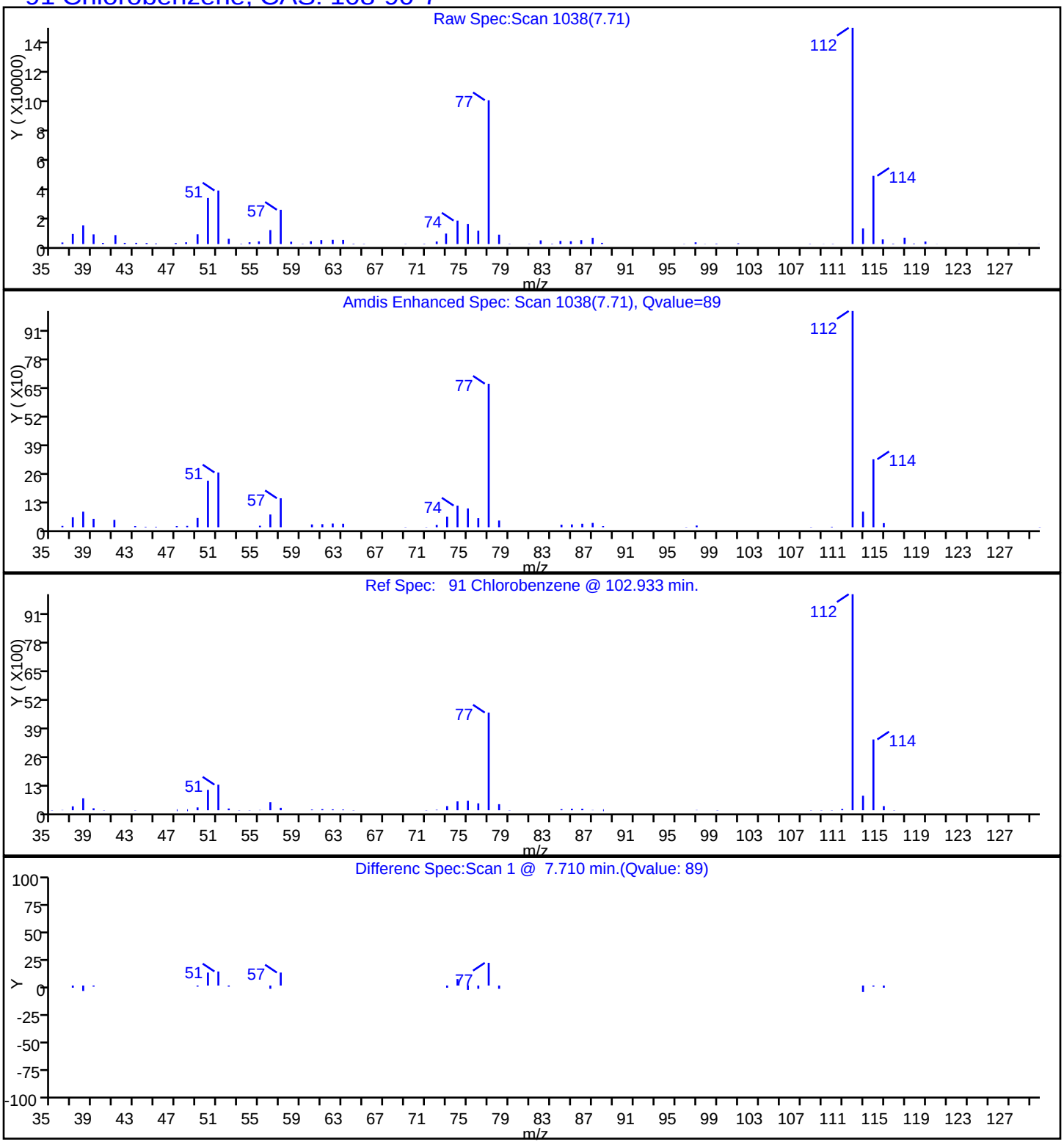
Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

91 Chlorobenzene, CAS: 108-90-7

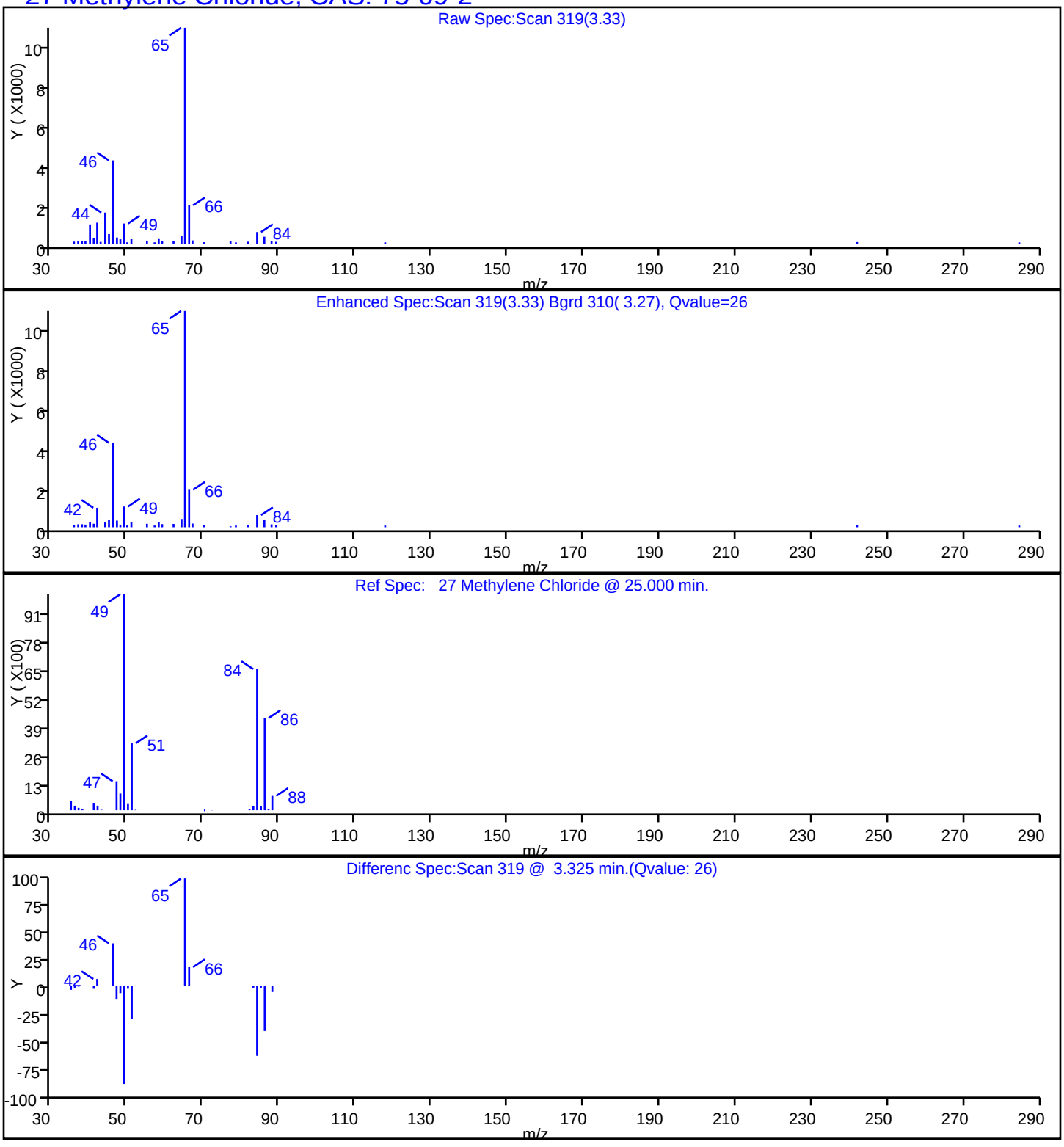


Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D				
Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2



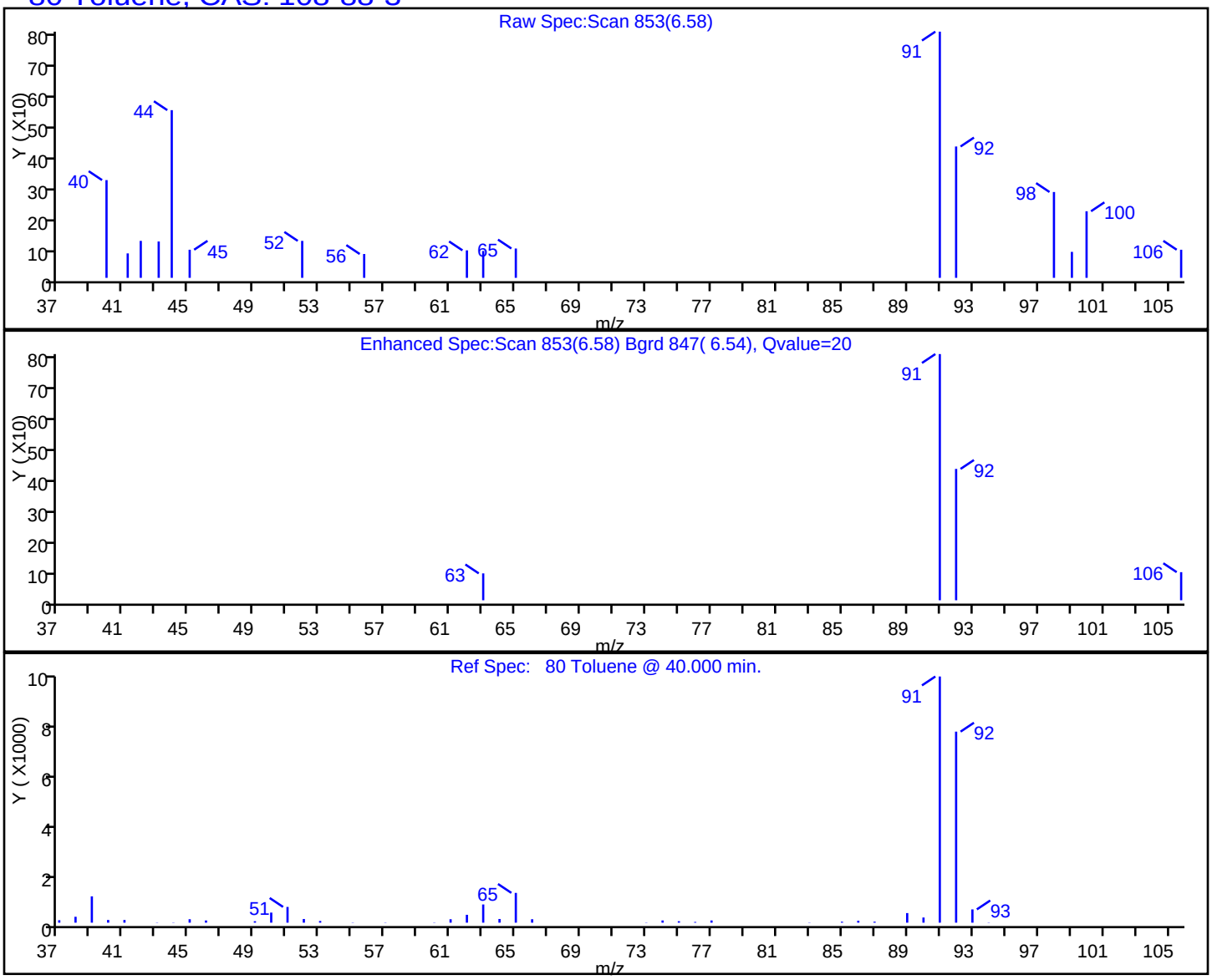
Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

80 Toluene, CAS: 108-88-3



Manual Integration/User Assign Peak Report

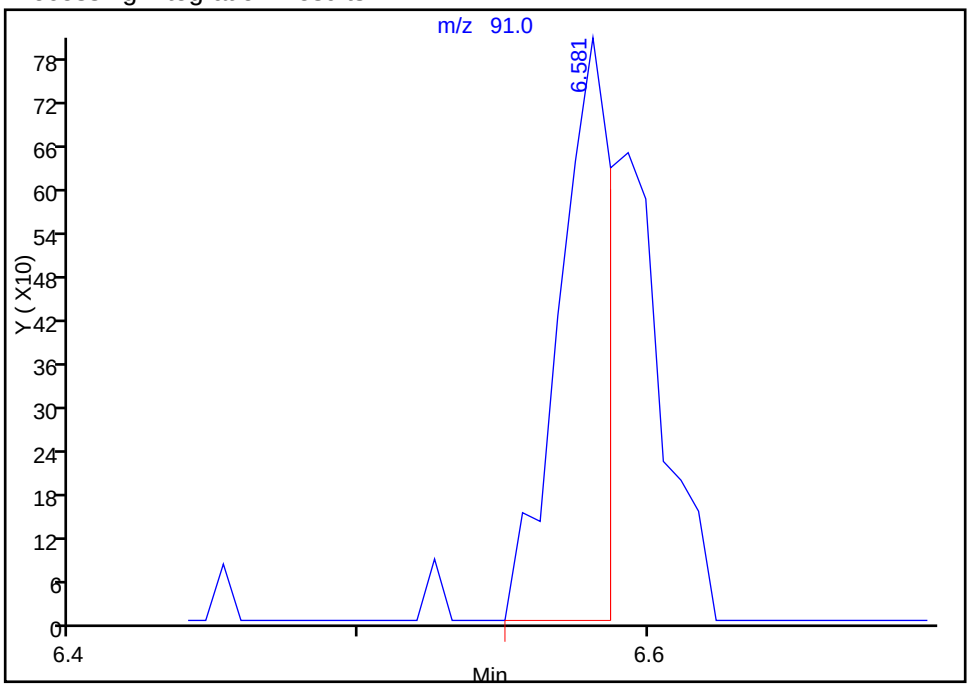
TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D				
Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

80 Toluene, CAS: 108-88-3

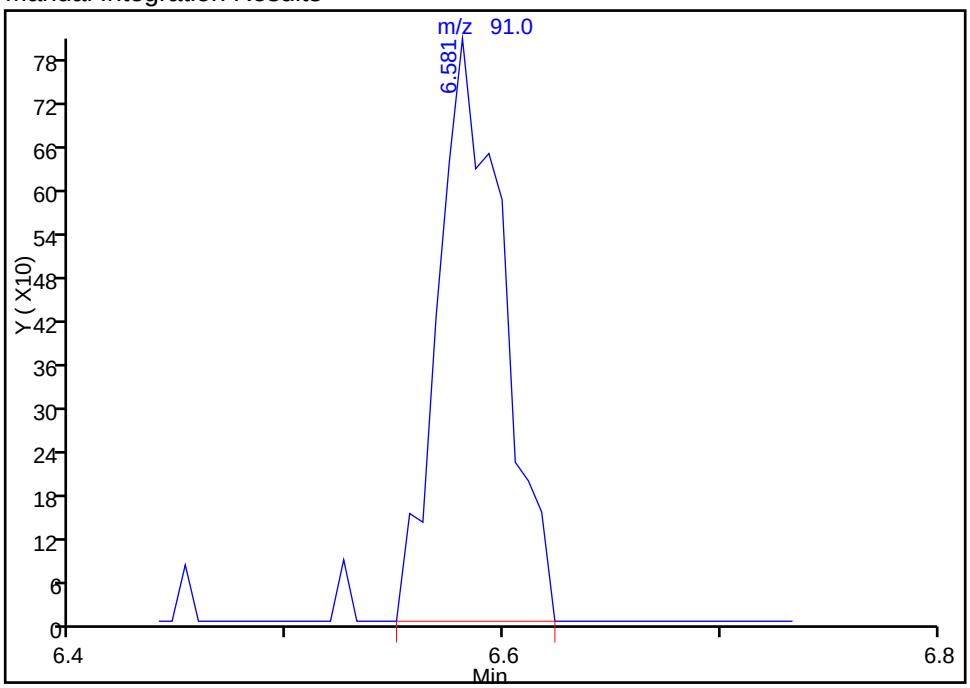
Processing Integration Results

RT: 6.58
Response: 1015
Amount: 0.216147



Manual Integration Results

RT: 6.58
Response: 1671
Amount: 0.355845



Reviewer: moroneyc, 05-Feb-2014 06:53:16
Audit Action: Manually Integrated
Audit Reason: Split Peak

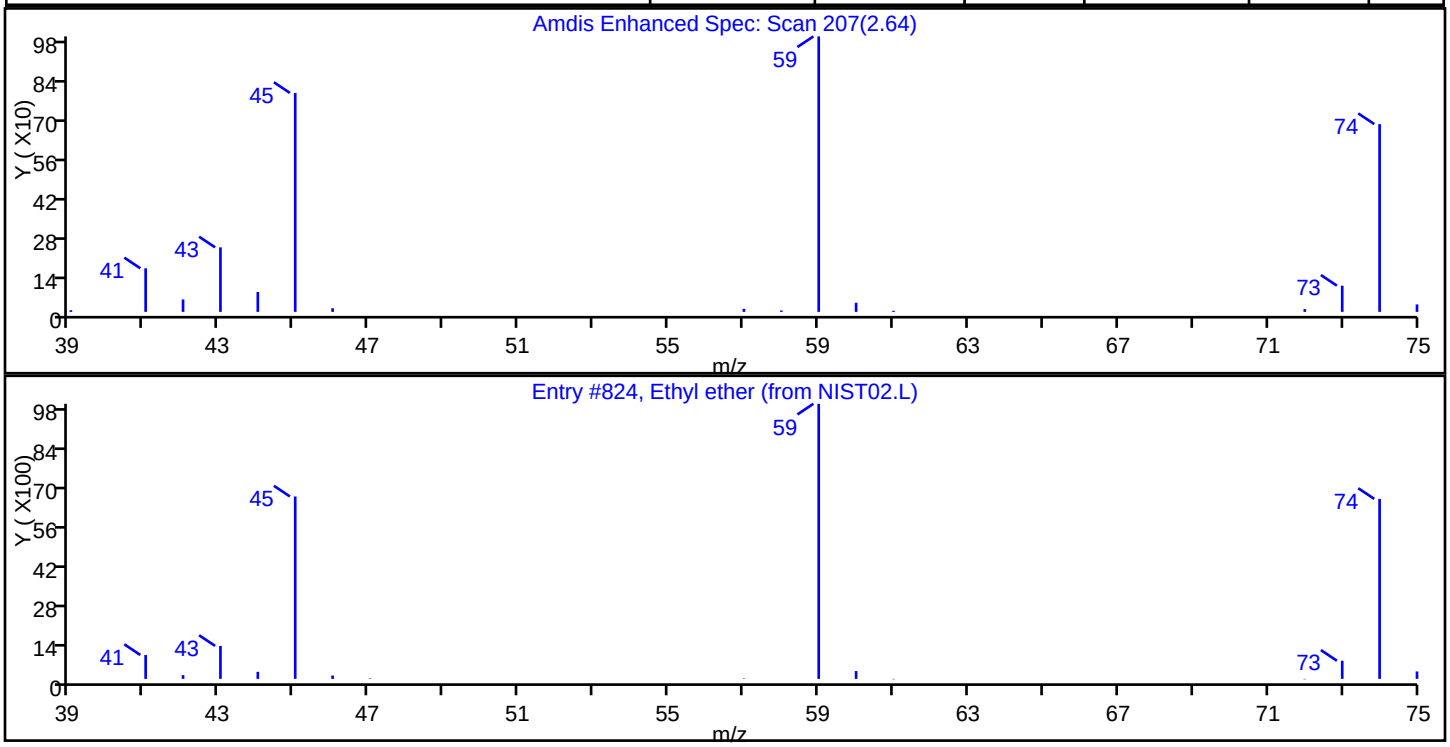
Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date:	04-Feb-2014 21:16:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-A-1	Lab Sample ID:	460-70372-1		
Client ID:	TW-1				
Operator ID:	VOA GC/MS1	ALS Bottle#:	31	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethyl ether	60-29-7	NIST02.L	824	C4H10O	74	90



Report Date: 05-Feb-2014 10:14:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99048.D

Injection Date: 04-Feb-2014 21:16:30 Instrument ID: CVOAMS1

Lims ID: 460-70372-A-1 Lab Sample ID: 460-70372-1

Client ID: TW-1

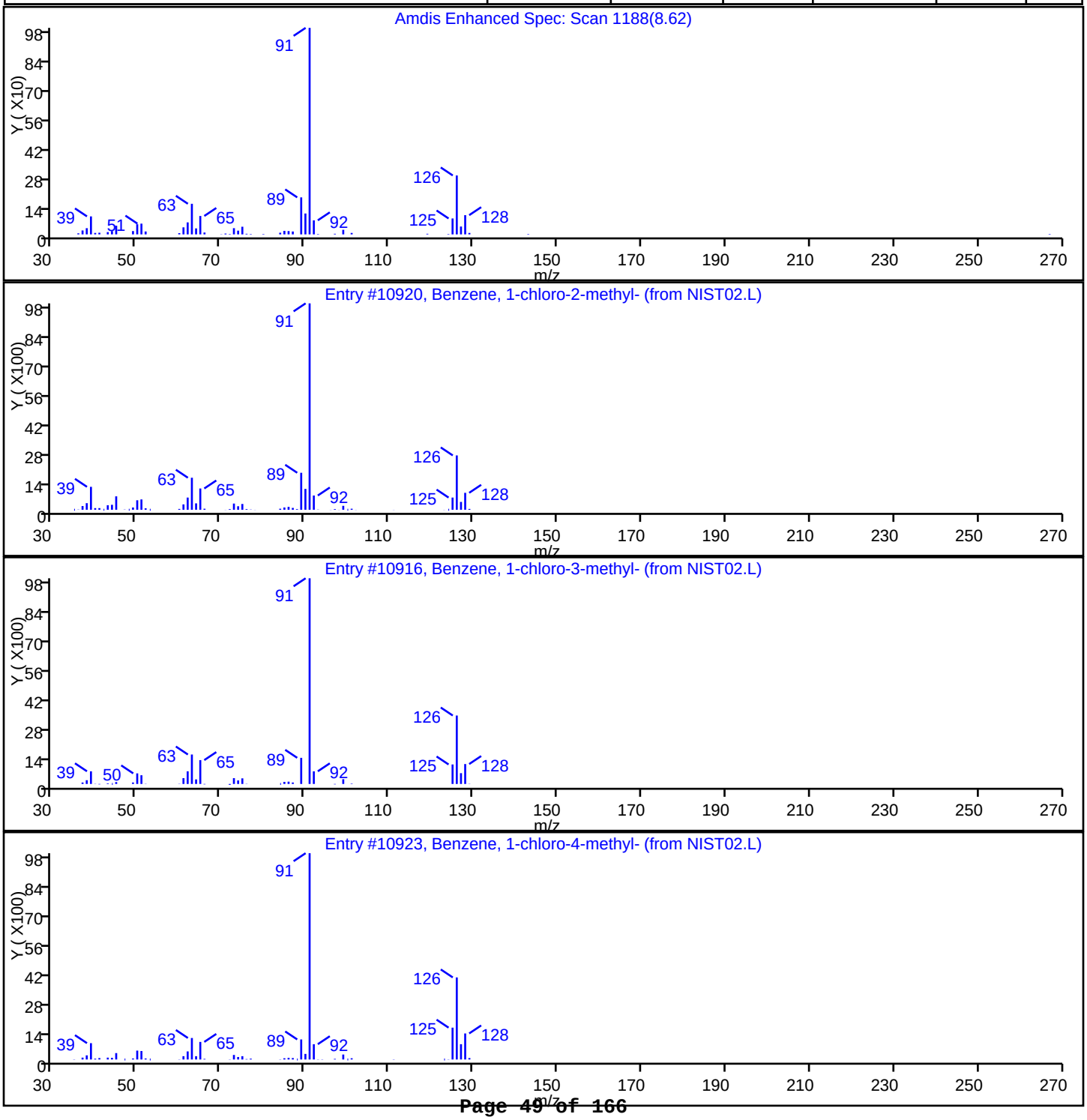
Operator ID: VOA GC/MS1 ALS Bottle#: 31 Worklist Smp#: 44

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260624W_1 Limit Group: VOA 624 ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-chloro-2-methyl-	95-49-8	NIST02.L	10920	C7H7Cl	126	96
Benzene, 1-chloro-3-methyl-	108-41-8	NIST02.L	10916	C7H7Cl	126	93
Benzene, 1-chloro-4-methyl-	106-43-4	NIST02.L	10923	C7H7Cl	126	87



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: TW-2 | Lab Sample ID: 460-70372-2

Matrix: Water | Lab File ID: A99049.D

Analysis Method: 624 | Date Collected: 01/28/2014 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 21:36

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.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
123-91-1	1,4-Dioxane	430		50	36
78-93-3	2-Butanone	2.3	U	5.0	2.3
591-78-6	2-Hexanone	0.50	U	5.0	0.50
108-10-1	MIBK	0.99	U	5.0	0.99
67-64-1	Acetone	2.7	U	5.0	2.7
71-43-2	Benzene	1.7		1.0	0.080
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
108-90-7	Chlorobenzene	44		1.0	0.11
75-00-3	Chloroethane	0.17	U	1.0	0.17
67-66-3	Chloroform	0.080	U	1.0	0.080
74-87-3	Chloromethane	0.10	U	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	7.5		1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
100-42-5	Styrene	0.12	U	1.0	0.12
127-18-4	Tetrachloroethene	0.10	U	1.0	0.10
108-88-3	Toluene	0.15	U	1.0	0.15
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
79-01-6	Trichloroethene	9.7		1.0	0.090
75-01-4	Vinyl chloride	2.9		1.0	0.14
1330-20-7	Xylenes, Total	0.36	U	2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: TW-2 Lab Sample ID: 460-70372-2

Matrix: Water Lab File ID: A99049.D

Analysis Method: 624 Date Collected: 01/28/2014 10:15

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 21:36

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.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		70-130
460-00-4	Bromofluorobenzene	111		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	120		70-130

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

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: TW-2 | Lab Sample ID: 460-70372-2

Matrix: Water | Lab File ID: A99049.D

Analysis Method: 624 | Date Collected: 01/28/2014 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 21:36

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.: 205851 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 9.7

CAS NO.	COMPOUND NAME	RT	RESULT	Q
60-29-7	Ethyl ether	2.64	9.7	J N

Report Date: 05-Feb-2014 10:14:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D
Lims ID: 460-70372-B-2 Lab Sample ID: 460-70372-2
Client ID: TW-2
Sample Type: Client
Inject. Date: 04-Feb-2014 21:36:30 ALS Bottle#: 32 Worklist Smp#: 45
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-70372-B-2
Misc. Info.: 460-0009480-045
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 05-Feb-2014 10:14:14 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: moroneyc Date: 05-Feb-2014 06:53:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
6 Vinyl chloride	62	1.807	1.807	0.0	59	5933	2.94	
* 28 TBA-d9 (IS)	65	3.350	3.368	-0.018	81	101014	1000.0	
41 cis-1,2-Dichloroethene	96	4.343	4.343	0.0	85	9423	7.51	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.703	0.0	41	51199	59.9	
55 Benzene	78	4.977	4.971	0.006	46	8502	1.74	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.977	0.007	69	64326	61.0	
* 62 Fluorobenzene	96	5.191	5.191	0.0	97	167973	50.0	
64 Trichloroethene	95	5.459	5.453	0.006	89	10247	9.73	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	1	7379	1000.0	
71 1,4-Dioxane	88	5.770	5.764	0.006	71	2942	425.9	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	97	178644	51.2	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	88	109448	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	89	122220	44.3	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	81	49113	55.3	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	97	58134	50.0	

TestAmerica Edison
Tentatively Identified Quantitation Report

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D				
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Sample Type:	Client				
Inject. Date:	04-Feb-2014 21:36:30	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-70372-B-2				
Misc. Info.:	460-0009480-045				
Operator ID:	VOA GC/MS1	Instrument ID:	CVOAMS1		
Method:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m				
Limit Group:	VOA 624 ICAL				
Last Update:	05-Feb-2014 10:14:14	Calib Date:	27-Jan-2014 05:35:30		
Tic RT Window:	0.000 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\EDICHROM\ChromData\Database\NIST02.L				
Min. Match:	80				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: moroneyc		Date:	05-Feb-2014 06:53:40		

Tentative Identified Compound Results

RT	Response	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
60-29-7 Ethyl ether								
2.643	72369	9.66	62	90	824	C4H10O	74	

Quantitation Compounds

Compound	RT	Response	Amount ug/l
* 62 Fluorobenzene	5.191	374401	50.0

QC Flag Legend

Processing Flags

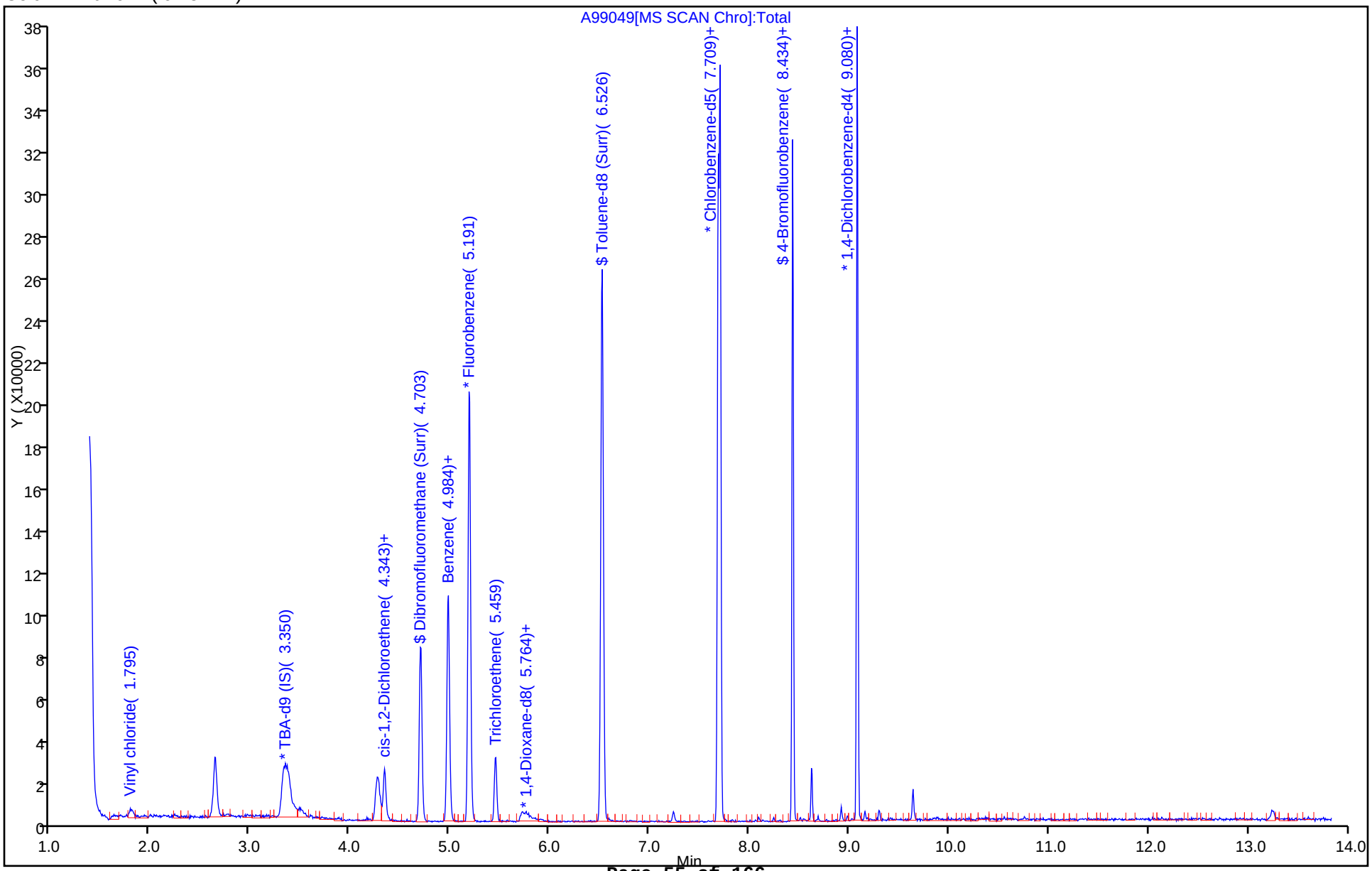
Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D

Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2	Worklist Smp#:	45
Client ID:	TW-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)

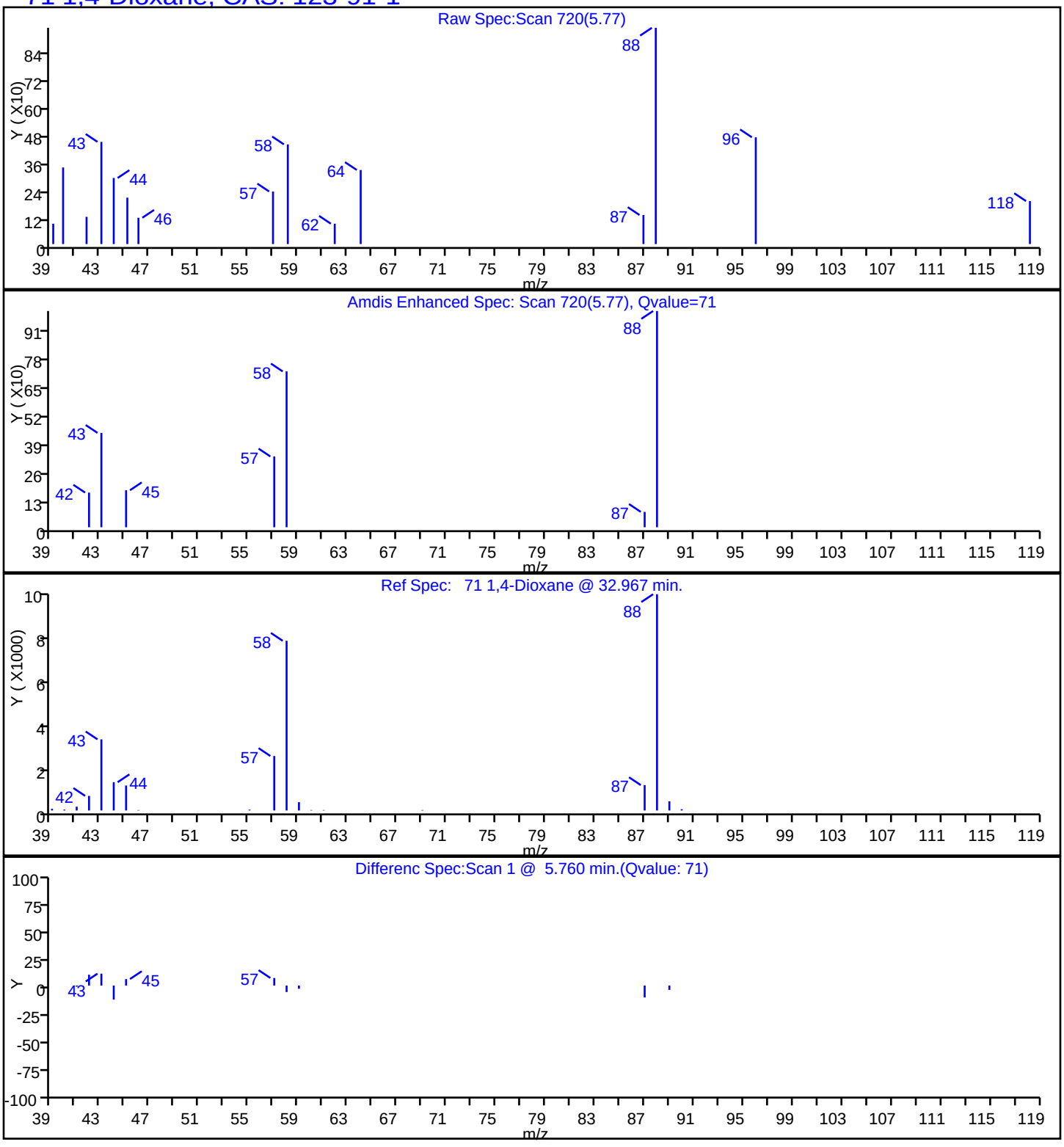


Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D				
Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Operator ID:	VOA GC/MS1	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

71 1,4-Dioxane, CAS: 123-91-1

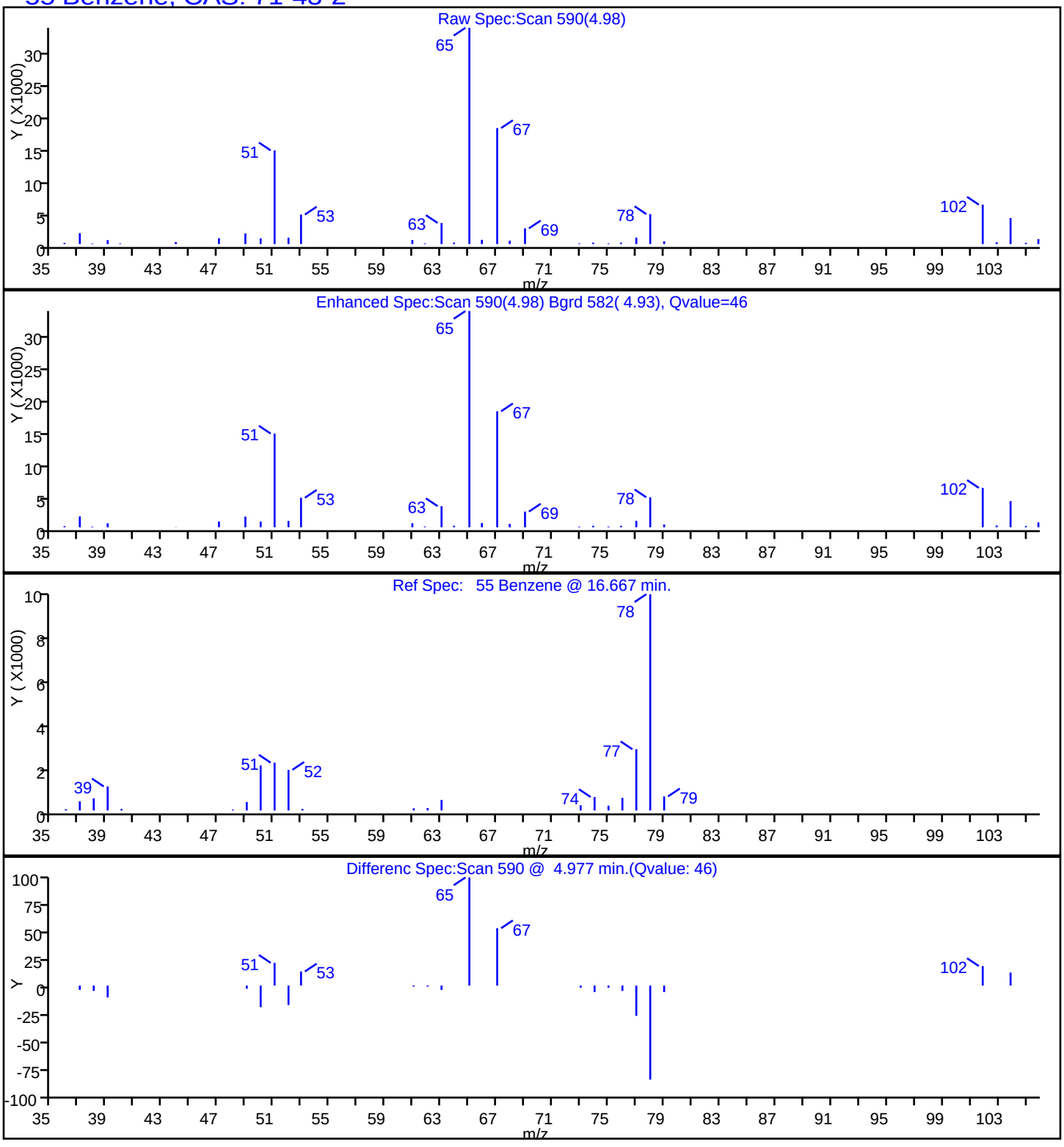


Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D				
Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Operator ID:	VOA GC/MS1	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2



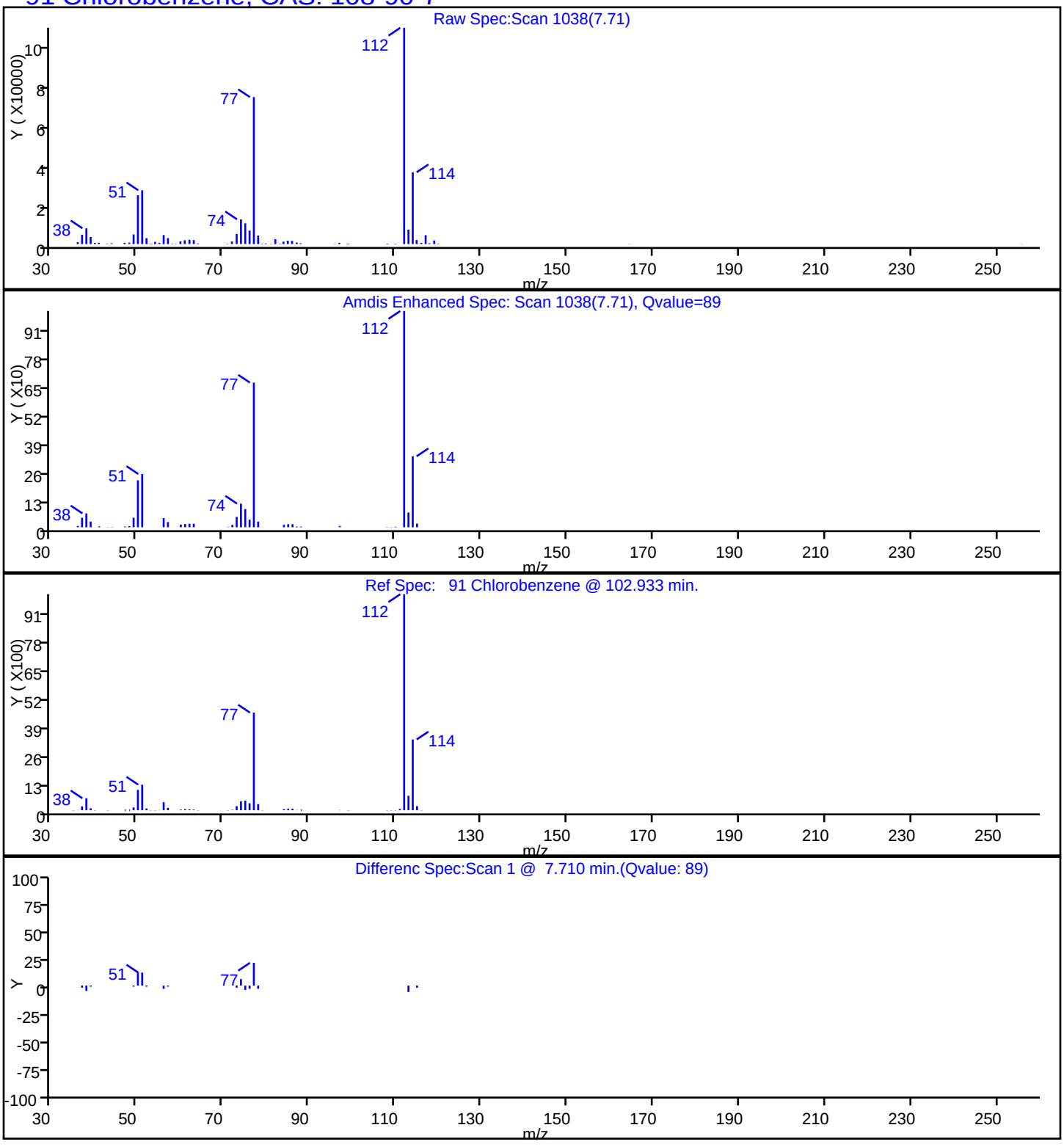
Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D

Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Operator ID:	VOA GC/MS1	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

91 Chlorobenzene, CAS: 108-90-7

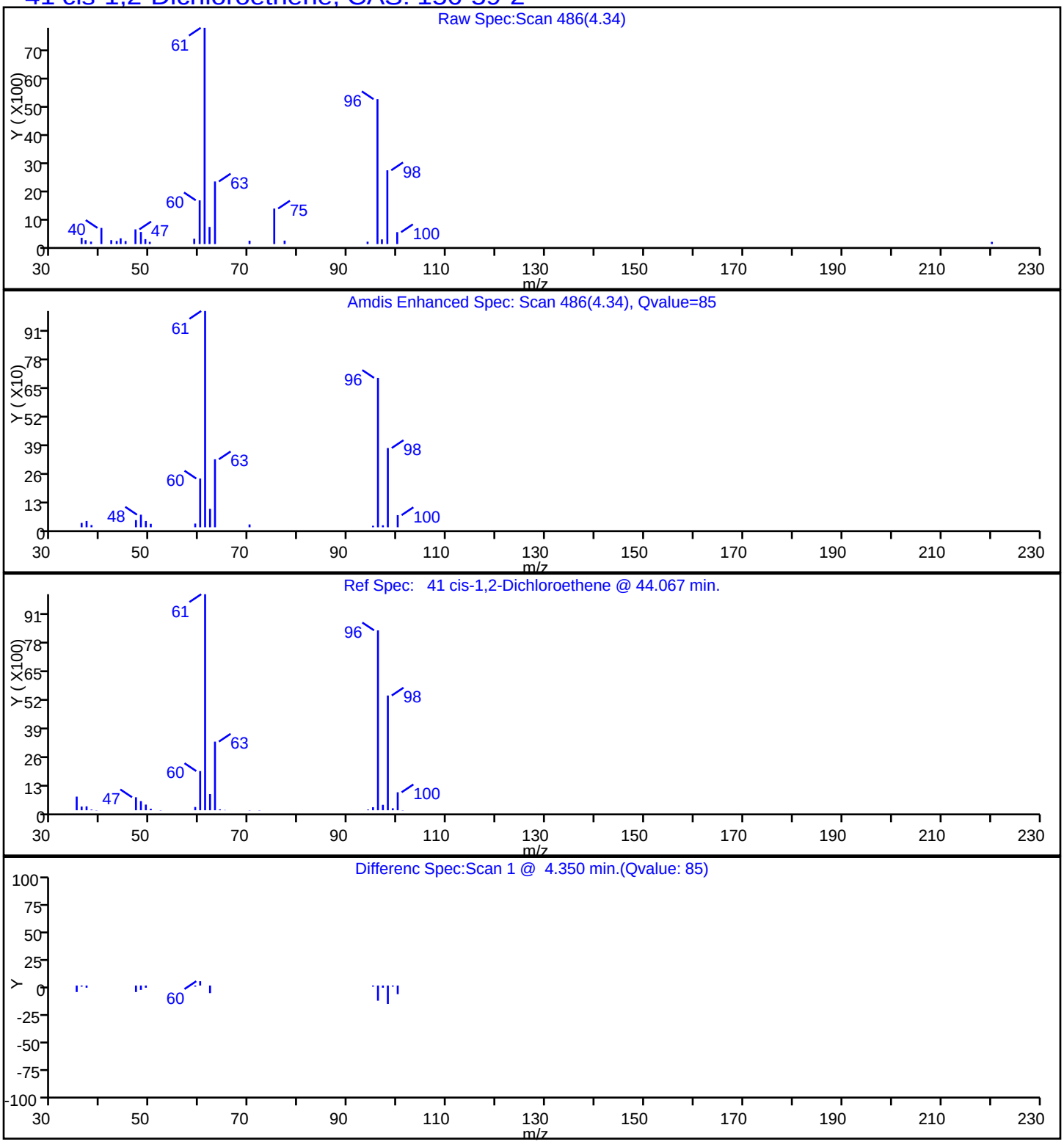


Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D				
Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Operator ID:	VOA GC/MS1	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

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



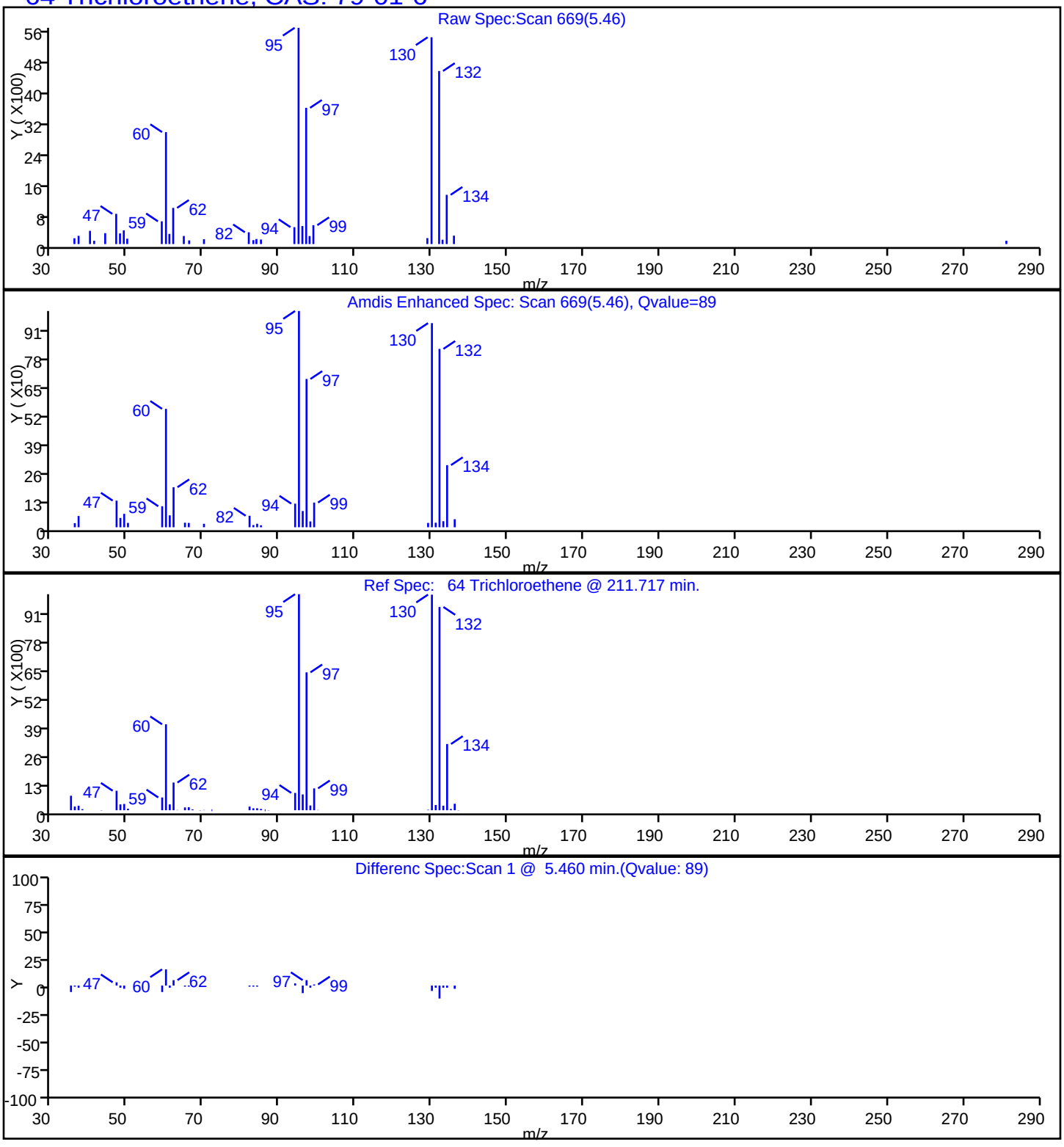
Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D

Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Operator ID:	VOA GC/MS1	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

64 Trichloroethene, CAS: 79-01-6



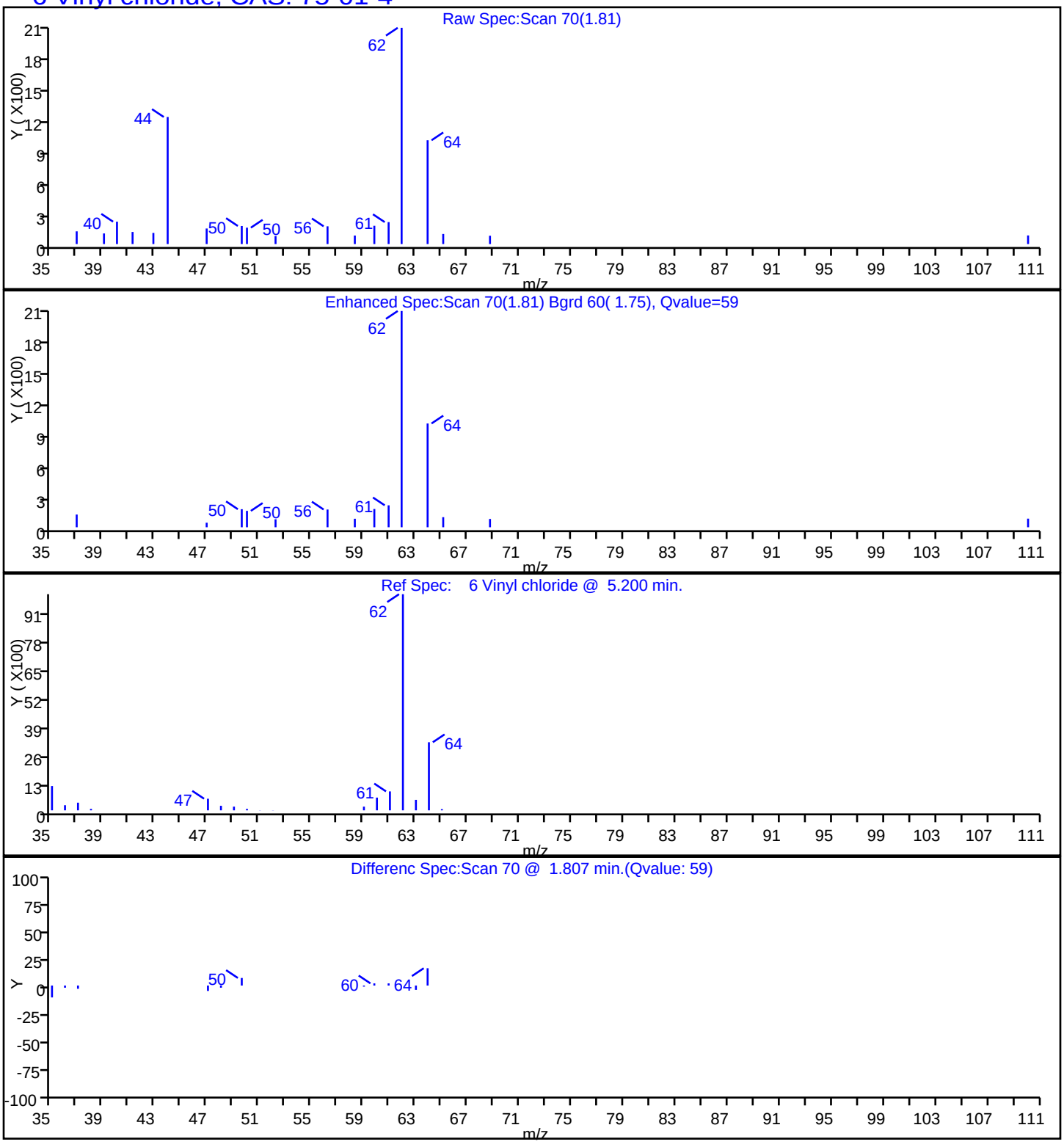
Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D

Injection Date:	04-Feb-2014 21:36:30	Instrument ID:	CVOAMS1		
Lims ID:	460-70372-B-2	Lab Sample ID:	460-70372-2		
Client ID:	TW-2				
Operator ID:	VOA GC/MS1	ALS Bottle#:	32	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

6 Vinyl chloride, CAS: 75-01-4



Report Date: 05-Feb-2014 10:14:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99049.D

Injection Date: 04-Feb-2014 21:36:30 Instrument ID: CVOAMS1

Lims ID: 460-70372-B-2 Lab Sample ID: 460-70372-2

Client ID: TW-2

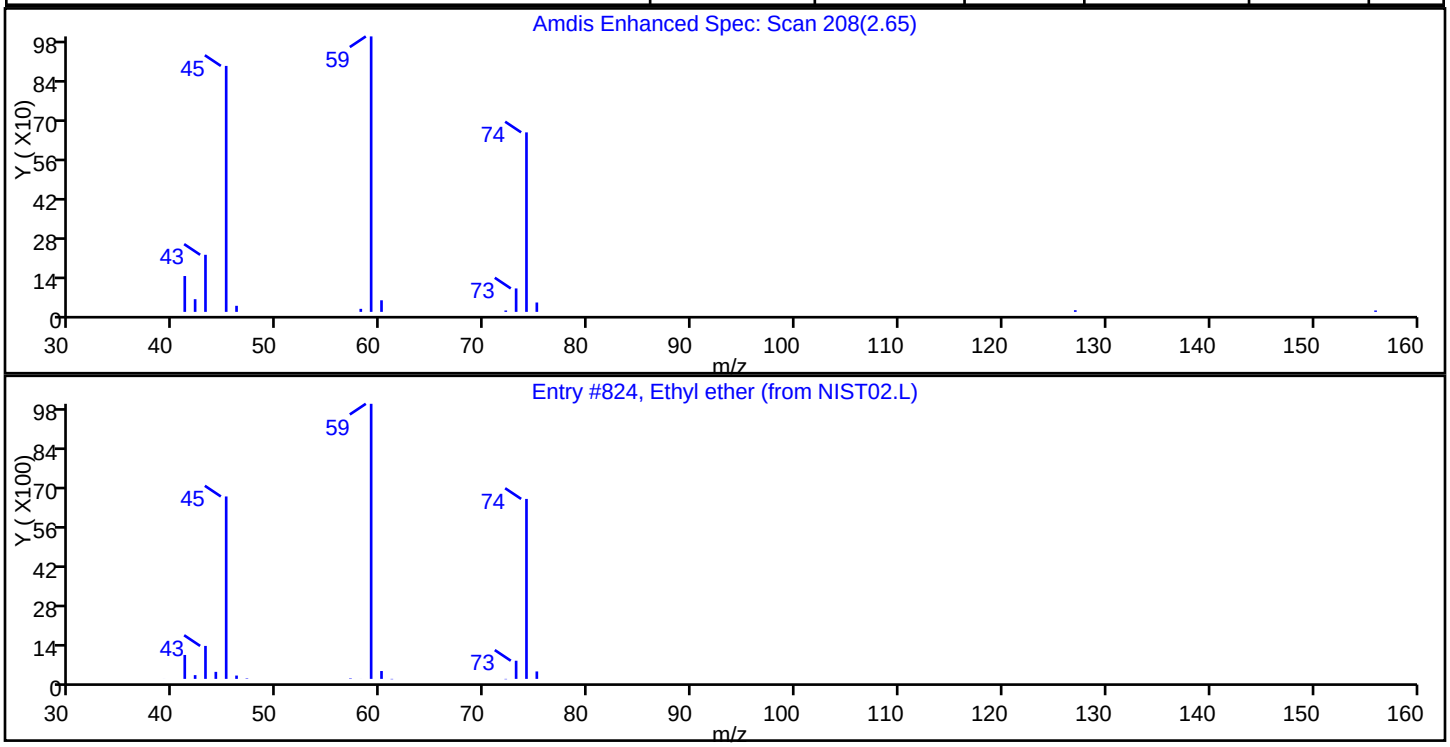
Operator ID: VOA GC/MS1 ALS Bottle#: 32 Worklist Smp#: 45

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260624W_1 Limit Group: VOA 624 ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethyl ether	60-29-7	NIST02.L	824	C4H10O	74	90



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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-204517/7	A98631.D
Level 2	STD5 460-204517/8	A98632.D
Level 3	STD20 460-204517/3	A98627.D
Level 4	STD50 460-204517/9	A98633.D
Level 5	STD200 460-204517/10	A98634.D
Level 6	STD500 460-204517/11	A98635.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 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4546 0.4069	0.3877	0.3667	0.3932	0.3635	Ave		0.3954				8.4		35.0			
Chloromethane	0.7780 0.6557	0.6374	0.5826	0.6348	0.5695	Ave		0.6430				12.0		35.0			
Vinyl chloride	0.6822 0.6340	0.5923	0.5306	0.6166	0.5501	Ave		0.6010				9.3		35.0			
Bromomethane	0.3515 0.3404	0.3373	0.3026	0.3332	0.3004	Ave		0.3276				6.4		35.0			
Chloroethane	0.4090 0.3563	0.3785	0.3186	0.3606	0.3178	Ave		0.3568				9.9		35.0			
Trichlorofluoromethane	0.5847 0.5734	0.5259	0.4908	0.5367	0.5011	Ave		0.5354				7.1		35.0			
n-Pentane	0.0671 0.0813	0.0721	0.0723	0.0763	0.0722	Ave		0.0736				6.5		35.0			
Ethyl ether	0.4026 0.3140	0.3064	0.2883	0.3003	0.2808	Ave		0.3154				14.0		35.0			
Ethanol	0.0284 0.0453	0.0502	0.0410	0.0510	0.0445	Ave		0.0434				19.0		35.0			
Isoprene	0.6510 0.5883	0.5472	0.5194	0.5685	0.5260	Ave		0.5667				8.6		35.0			
Acrolein	2.2306 2.6697	1.9047	1.7515	2.0486	2.1568	Ave		2.1270				15.0		35.0			
Freon TF	0.3299 0.3658	0.3010	0.2955	0.3393	0.3204	Ave		0.3253				8.0		35.0			
1,1-Dichloroethene	0.3644 0.3421	0.2966	0.2816	0.3159	0.2994	Ave		0.3167				9.8		35.0			
Acetone	0.2256 0.1319	0.1310	0.1199	0.1297	0.1183	Ave		0.1427				29.0		35.0			
Iodomethane	25.286 30.693	19.466	17.603	22.881	24.179	Ave		23.351				20.0		35.0			

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

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

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 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	1.4672 1.3514	1.1006	1.0473	1.2123	1.1730	Ave		1.2253				13.0		35.0			
Isopropanol	0.7836 0.7048	0.7557	0.6041	0.7464	0.6806	Ave		0.7125				9.1		35.0			
Allyl chloride	0.2137 0.2385	0.1999	0.1911	0.2191	0.2023	Ave		0.2107				8.0		35.0			
Methyl acetate	0.3272 0.2959	0.2729	0.2368	0.2805	0.2570	Ave		0.2784				11.0		35.0			
Acetonitrile	2.6346 2.5494	1.9784	1.5470	2.7944	2.2904	Ave		2.2990				20.0		35.0			
Methylene Chloride	0.4051 0.3867	0.3734	0.3460	0.3868	0.3490	Ave		0.3745				6.2		35.0			
TBA	1.5399 1.6114	1.3518	1.0996	1.3448	1.4208	Ave		1.3947				13.0		35.0			
MTBE	1.1207 1.0902	0.9536	0.9598	1.0212	0.9606	Ave		1.0177				7.2		35.0			
trans-1,2-Dichloroethene	0.4174 0.3430	0.3190	0.2972	0.3263	0.3093	Ave		0.3353				13.0		35.0			
Acrylonitrile	0.1373 0.1464	0.1285	0.1264	0.1372	0.1306	Ave		0.1344				5.5		35.0			
Hexane	0.4184 0.3495	0.2700	0.2988	0.3361	0.3170	Ave		0.3316				15.0		35.0			
DIPE	1.4425 1.4160	1.1881	1.1787	1.2814	1.1895	Ave		1.2827				9.3		35.0			
1,1-Dichloroethane	0.8085 0.7510	0.6301	0.6135	0.6749	0.6451	Ave		0.6872				11.0		35.0			
Vinyl acetate	1.1044 1.0491	0.8428	0.8230	0.9359	0.8811	Ave		0.9394				12.0		35.0			
2,2-Dichloropropane	0.6892 0.5861	0.5092	0.4686	0.5425	0.4990	Ave		0.5491				14.0		35.0			
cis-1,2-Dichloroethene	0.4471 0.3950	0.3549	0.3330	0.3643	0.3456	Ave		0.3733				11.0		35.0			
2-Butanone	1.5987 2.5914	1.4277	1.4601	1.7893	1.9974	Ave		1.8107				24.0		35.0			
Ethyl acetate	0.0260 0.0371	0.0315	0.0298	0.0329	0.0317	Ave		0.0315				12.0		35.0			
Bromochloromethane	0.2180 0.1663	0.1333	0.1458	0.1577	0.1480	Ave		0.1615				18.0		35.0			
Tetrahydrofuran	6.3324 8.5028	5.4979	4.8540	5.9978	6.7021	Ave		6.3145				20.0		35.0			

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

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

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 3	LVL 4	LVL 5		B	M1	M2								
Chloroform	0.6526 0.6264	0.5597	0.5258	0.5769	0.5482	Ave		0.5816				8.4		35.0			
Cyclohexane	0.7250 0.7870	0.5567	0.6248	0.7056	0.6776	Ave		0.6794				12.0		35.0			
1,1,1-Trichloroethane	0.5574 0.5228	0.4144	0.4348	0.4933	0.4591	Ave		0.4803				11.0		35.0			
Carbon tetrachloride	0.4751 0.4299	0.3485	0.3452	0.3960	0.3774	Ave		0.3954				13.0		35.0			
1,1-Dichloropropene	0.5121 0.4712	0.3817	0.3918	0.4429	0.4226	Ave		0.4371				11.0		35.0			
Benzene	2.7230 2.2217	2.1361	2.0518	2.2223	2.0732	Ave		2.2380				11.0		35.0			
Isopropyl acetate	0.9923 1.0721	0.8873	0.8494	0.9661	0.9142	Ave		0.9469				8.5		35.0			
1,2-Dichloroethane	0.4658 0.4612	0.3995	0.3819	0.4111	0.4041	Ave		0.4206				8.2		35.0			
n-Heptane	0.2742 0.2906	0.2085	0.2443	0.2811	0.2680	Ave		0.2611				12.0		35.0			
n-Butanol	0.2598 0.3639	0.2150	0.1943	0.3049	0.3521	Ave		0.2817				25.0		35.0			
Trichloroethene	0.3284 0.3521	0.2804	0.2836	0.3244	0.3115	Ave		0.3134				8.8		35.0			
Ethyl acrylate	0.9272 1.0524	0.7032	0.8071	0.9227	0.8949	Ave		0.8846				13.0		35.0			
Methylcyclohexane	0.6341 0.6887	0.4741	0.5403	0.6316	0.6058	Ave		0.5958				13.0		35.0			
1,2-Dichloropropane	0.4186 0.4100	0.3568	0.3373	0.3752	0.3593	Ave		0.3762				8.5		35.0			
Methyl methacrylate	0.0705 0.0788	0.0628	0.0623	0.0712	0.0679	Ave		0.0689				8.9		35.0			
Propyl acetate	0.4895 0.4936	0.3860	0.3781	0.4248	0.4210	Ave		0.4322				11.0		35.0			
1,4-Dioxane	0.6095 1.2214	1.1347	0.8142	0.9754	0.8619	Ave		0.9362				24.0		35.0			
Dibromomethane	0.2266 0.2061	0.1784	0.1681	0.1851	0.1824	Ave		0.1911				11.0		35.0			
Bromodichloromethane	0.4589 0.4812	0.3906	0.3806	0.4186	0.4212	Ave		0.4252				9.1		35.0			
2-Chloroethyl vinyl ether	0.1509 0.1847	0.1328	0.1366	0.1521	0.1532	Ave		0.1517				12.0		35.0			

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

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

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 3	LVL 4	LVL 5		B	M1	M2								
Epichlorohydrin	0.0421 0.0413	0.0328	0.0340	0.0375	0.0368	Ave		0.0374				10.0		35.0			
cis-1,3-Dichloropropene	0.8483 0.8972	0.6941	0.7246	0.8088	0.8016	Ave		0.7958				9.5		35.0			
MIBK	0.5501 0.5559	0.4721	0.4816	0.5137	0.4953	Ave		0.5115				6.9		35.0			
Toluene	2.5039 2.2863	1.9923	1.9241	2.0993	2.0305	Ave		2.1394				10.0		35.0			
trans-1,3-Dichloropropene	0.6362 0.7288	0.5393	0.5585	0.6289	0.6380	Ave		0.6216				11.0		35.0			
1,1,2-Trichloroethane	0.4981 0.3873	0.3618	0.3327	0.3557	0.3492	Ave		0.3808				16.0		35.0			
Tetrachloroethene	0.4722 0.4502	0.4104	0.3752	0.4170	0.4041	Ave		0.4215				8.2		35.0			
1,3-Dichloropropane	0.8483 0.7866	0.6829	0.6600	0.7274	0.7085	Ave		0.7356				9.5		35.0			
2-Hexanone	0.3634 0.3502	0.3012	0.3039	0.3131	0.3008	Ave		0.3221				8.6		35.0			
Butyl acetate	0.1294 0.1314	0.1254	0.1188	0.1279	0.1214	Ave		0.1257				3.9		35.0			
Dibromochloromethane	0.4473 0.4495	0.3396	0.3724	0.4015	0.3991	Ave		0.4016				11.0		35.0			
1,2-Dibromoethane	0.4164 0.3933	0.3407	0.3540	0.3745	0.3559	Ave		0.3725				7.6		35.0			
Chlorobenzene	1.4495 1.3907	1.1592	1.1203	1.2395	1.2069	Ave		1.2610				10.0		35.0			
Ethylbenzene	0.8869 0.8197	0.6793	0.6529	0.7228	0.6983	Ave		0.7433				12.0		35.0			
1,1,1,2-Tetrachloroethane	0.5286 0.5218	0.4095	0.4148	0.4780	0.4500	Ave		0.4671				11.0		35.0			
m-Xylene & p-Xylene	1.0713 0.9425	0.7995	0.8215	0.8777	0.8230	Ave		0.8892				12.0		35.0			
n-Butyl acrylate	0.4497 0.4370	0.4072	0.4009	0.4274	0.3980	Ave		0.4201				5.0		35.0			
o-Xylene	1.1912 1.0089	0.8224	0.8436	0.9061	0.8714	Ave		0.9406				15.0		35.0			
Styrene	1.7874 1.6988	1.3756	1.3854	1.4928	1.4431	Ave		1.5305				11.0		35.0			
Amyl acetate	1.8363 2.1160	1.6584	1.6577	1.8791	1.8180	Ave		1.8276				9.3		35.0			

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

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

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 3	LVL 4	LVL 5		B	M1	M2								
Bromoform	0.3123 0.2778	0.2250	0.2411	0.2514	0.2506	Ave		0.2597				12.0		35.0			
Isopropylbenzene	2.7318 2.6258	2.2019	2.2047	2.4537	2.3453	Ave		2.4272				9.0		35.0			
Camphene, Total	0.2689 0.2109	0.2004	0.1923	0.2150	0.1940	Ave		0.2136				13.0		35.0			
1,1,2,2-Tetrachloroethane	1.3539 1.3267	1.0787	0.9862	1.1500	1.1234	Ave		1.1698				12.0		35.0			
Bromobenzene	1.2133 1.1037	0.9505	0.8113	0.9260	0.9242	Ave		0.9882				15.0		35.0			
N-Propylbenzene	6.6865 6.5280	5.3041	4.8796	5.7710	5.7646	Ave		5.8223				12.0		35.0			
1,2,3-Trichloropropane	0.3498 0.3178	0.2714	0.2592	0.2849	0.2778	Ave		0.2935				12.0		35.0			
2-Chlorotoluene	4.4550 4.6381	3.5763	3.2697	3.8602	3.9025	Ave		3.9503				13.0		35.0			
1,3,5-Trimethylbenzene	4.3212 4.3494	3.4249	3.1110	3.8146	3.7816	Ave		3.8004				13.0		35.0			
4-Chlorotoluene	3.9070 3.9238	3.1690	2.8711	3.3037	3.3213	Ave		3.4160				12.0		35.0			
Butyl Methacrylate	1.4079 1.9065	1.3953	1.3571	1.6388	1.6078	Ave		1.5522				14.0		35.0			
tert-Butylbenzene	3.1570 3.5410	2.4353	2.4045	3.0193	3.0344	Ave		2.9319				15.0		35.0			
1,2,4-Trimethylbenzene	4.7969 4.4659	3.5856	3.2970	3.8882	3.8929	Ave		3.9877				14.0		35.0			
sec-Butylbenzene	5.4400 5.5245	4.1972	3.9822	5.0254	4.9737	Ave		4.8572				13.0		35.0			
p-Isopropyltoluene	4.7079 4.6941	3.4304	3.2600	4.0783	4.1096	Ave		4.0467				15.0		35.0			
1,3-Dichlorobenzene	2.4445 2.1619	1.7842	1.6843	1.9320	1.8864	Ave		1.9822				14.0		35.0			
1,4-Dichlorobenzene	2.6464 2.3370	1.9083	1.7562	1.9696	1.9587	Ave		2.0960				16.0		35.0			
Benzyl chloride	2.0247 2.3725	1.8137	1.7940	2.1784	2.1163	Ave		2.0499				11.0		35.0			
n-Butylbenzene	2.6476 2.5774	2.0877	2.0636	2.4515	2.3937	Ave		2.3702				10.0		35.0			
1,2-Dichlorobenzene	2.3843 1.9594	1.8018	1.6368	1.8846	1.7871	Ave		1.9090				13.0		35.0			

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

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

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 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	0.1915 0.1676	0.1610	0.1460	0.1493	0.1496	Ave		0.1608				11.0		35.0			
Camphor	0.0759 0.0882	0.0886	0.0740	0.0649	0.0698	Ave		0.0769				13.0		35.0			
1,2,4-Trichlorobenzene	1.5859 0.9415	0.9087	0.8290	0.9251	0.9341	Ave		1.0207				27.0		35.0			
Hexachlorobutadiene	0.6616 0.4842	0.4261	0.4231	0.4871	0.4776	Ave		0.4933				18.0		35.0			
Naphthalene	3.8603 1.9170	1.8106	1.8560	1.7188	1.7641	Qua	2.2492	1.6482	0.0005						1.0000		0.9900
1,2,3-Trichlorobenzene	1.7086 0.5969	0.6833	0.5637	0.5649	0.5940	Qua	0.1174	0.5866	0						1.0000		0.9900
Dibromofluoromethane (Surr)	0.2780 0.2895	0.2669	0.1876	0.2539	0.2518	Ave		0.2546				14.0		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3426 0.3606	0.3236	0.2381	0.3048	0.3141	Ave		0.3140				13.0		35.0			
Toluene-d8 (Surr)	1.8045 1.7205	1.6798	1.2359	1.5714	1.5542	Ave		1.5944				12.0		35.0			
Bromofluorobenzene	0.8264 0.8786	0.8112	0.5684	0.7388	0.7572	Ave		0.7634				14.0		35.0			

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

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-204517/7	A98631.D
Level 2	STD5 460-204517/8	A98632.D
Level 3	STD20 460-204517/3	A98627.D
Level 4	STD50 460-204517/9	A98633.D
Level 5	STD200 460-204517/10	A98634.D
Level 6	STD500 460-204517/11	A98635.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2187 1142299	9939	42869	106838	436756	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	3743 1840546	16343	68116	172486	684304	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	3282 1779664	15185	62029	167543	661011	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	1691 955572	8648	35382	90522	360988	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	1968 1000121	9703	37248	97983	381803	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	2813 1609442	13483	57382	145830	602108	1.00 500	5.00	20.0	50.0	200
n-Pentane	FB	Ave	646 456324	3699	16910	41464	173593	2.00 1000	10.0	40.0	100	400
Ethyl ether	FB	Ave	1937 881262	7855	33705	81600	337444	1.00 500	5.00	20.0	50.0	200
Ethanol	TBA	Ave	162 107187	1514	5827	14558	50198	50.0 25000	250	1000	2500	10000
Isoprene	FB	Ave	3132 1651468	14029	60723	154477	632039	1.00 500	5.00	20.0	50.0	200
Acrolein	TBA	Ave	1018 101168	4600	9966	23406	48619	4.00 400	20.0	40.0	100	200
Freon TF	FB	Ave	1587 1026766	7718	34545	92190	385030	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethene	FB	Ave	1753 960370	7604	32927	85837	359707	1.00 500	5.00	20.0	50.0	200
Acetone	FB	Ave	5428 1851354	16796	70084	176210	710635	5.00 2500	25.0	100	250	1000
Iodomethane	TBA	Ave	2885 1453873	11753	50080	130715	545042	1.00 500	5.00	20.0	50.0	200
Carbon disulfide	FB	Ave	7059 3793433	28217	122443	329380	1409435	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Isopropanol	TBA	Ave	894 333857	4563	17187	42638	153414	10.0 5000	50.0	200	500	2000
Allyl chloride	FB	Ave	1028 669374	5124	22339	59528	243014	1.00 500	5.00	20.0	50.0	200
Methyl acetate	FB	Ave	7872 4153002	34978	138436	381056	1543850	5.00 2500	25.0	100	250	1000
Acetonitrile	TBA	Ave	3006 1207588	11945	44012	159637	516304	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	1949 1085373	9573	40447	105094	419357	1.00 500	5.00	20.0	50.0	200
TBA	TBA	Ave	1757 763311	8162	31282	76825	320279	10.0 5000	50.0	200	500	2000
MTBE	FB	Ave	5392 3060274	24449	112214	277461	1154157	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	2008 962706	8178	34751	88652	371609	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	FB	Ave	6607 4109742	32947	147801	372816	1569591	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	2013 981137	6923	34930	91321	380878	1.00 500	5.00	20.0	50.0	200
DIPE	FB	Ave	6940 3974698	30462	137810	348163	1429192	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	3890 2108044	16156	71729	183363	775082	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	FB	Ave	10627 5889941	43216	192435	508572	2117473	2.00 1000	10.0	40.0	100	400
2,2-Dichloropropane	FB	Ave	3316 1645309	13054	54785	147389	599551	1.00 500	5.00	20.0	50.0	200
cis-1,2-Dichloroethene	FB	Ave	2151 1108756	9098	38930	98988	415205	1.00 500	5.00	20.0	50.0	200
2-Butanone	TBA	Ave	912 613745	4310	20769	51109	225123	5.00 2500	25.0	100	250	1000
Ethyl acetate	FB	Ave	250 208390	1617	6978	17876	76094	2.00 1000	10.0	40.0	100	400
Bromochloromethane	FB	Ave	1049 466813	3418	17042	42840	177829	1.00 500	5.00	20.0	50.0	200
Tetrahydrofuran	TBA	Ave	1445 805518	6639	27619	68529	302155	2.00 1000	10.0	40.0	100	400
Chloroform	FB	Ave	3140 1758447	14349	61468	156747	658728	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	3488 2208988	14273	73050	191728	814125	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1-Trichloroethane	FB	Ave	2682 1467493	10624	50839	134043	551680	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	2286 1206738	8936	40355	107599	453443	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	2464 1322777	9787	45803	120345	507812	1.00 500	5.00	20.0	50.0	200
Benzene	CBZ	Ave	7768 4276624	33402	148289	384519	1627490	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	4774 3009477	22750	99309	262507	1098425	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	2241 1294469	10242	44655	111690	485501	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	1319 815604	5346	28565	76382	322041	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBA	Ave	741 430984	3245	13819	43549	198415	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	1580 988233	7188	33162	88130	374257	1.00 500	5.00	20.0	50.0	200
Ethyl acrylate	FB	Ave	4461 2954138	18030	94357	250704	1075252	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Ave	3051 1933070	12156	63163	171596	727939	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	2014 1150967	9149	39437	101953	431696	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	678 442601	3221	14577	38696	163252	2.00 1000	10.0	40.0	100	400
Propyl acetate	FB	Ave	2355 1385526	9896	44207	115418	505819	1.00 500	5.00	20.0	50.0	200
1,4-Dioxane	DXE	Ave	331 113788	1147	5495	10807	47324	50.0 10000	100	400	1000	4000
Dibromomethane	FB	Ave	1090 578567	4574	19655	50297	219181	1.00 500	5.00	20.0	50.0	200
Bromodichloromethane	FB	Ave	2208 1350824	10014	44497	113727	506074	1.00 500	5.00	20.0	50.0	200
2-Chloroethyl vinyl ether	FB	Ave	726 518431	3405	15966	41332	184088	1.00 500	5.00	20.0	50.0	200
Epichlorohydrin	CBZ	Ave	2404 1589271	10256	49088	129631	577978	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBZ	Ave	2420 1727141	10854	52366	139936	629257	1.00 500	5.00	20.0	50.0	200
MIBK	CBZ	Ave	7847 5350508	36913	174036	444443	1944283	5.00 2500	25.0	100	250	1000

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene	CBZ	Ave	7143 4400923	31153	139064	363239	1593960	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBZ	Ave	1815 1402982	8433	40363	108807	500856	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBZ	Ave	1421 745492	5658	24044	61548	274094	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBZ	Ave	1347 866550	6418	27117	72148	317235	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBZ	Ave	2420 1514156	10679	47702	125850	556177	1.00 500	5.00	20.0	50.0	200
2-Hexanone	CBZ	Ave	5183 3370681	23549	109809	270841	1180478	5.00 2500	25.0	100	250	1000
Butyl acetate	CBZ	Ave	369 252995	1961	8584	22127	95265	1.00 500	5.00	20.0	50.0	200
Dibromochloromethane	CBZ	Ave	1276 865196	5310	26918	69465	313297	1.00 500	5.00	20.0	50.0	200
1,2-Dibromoethane	CBZ	Ave	1188 757083	5328	25584	64797	279372	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBZ	Ave	4135 2676943	18126	80969	214470	947422	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBZ	Ave	2530 1577924	10622	47186	125059	548189	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBZ	Ave	1508 1004449	6403	29982	82706	353234	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBZ	Ave	3056 1814286	12502	59372	151860	646077	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBZ	Ave	1283 841203	6367	28978	73954	312457	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBZ	Ave	3398 1942013	12859	60971	156770	684073	1.00 500	5.00	20.0	50.0	200
Styrene	CBZ	Ave	5099 3270136	21510	100130	258297	1132891	1.00 500	5.00	20.0	50.0	200
Amyl acetate	DCB	Ave	2992 2047202	14667	70971	179113	746481	1.00 500	5.00	20.0	50.0	200
Bromoform	CBZ	Ave	891 534807	3518	17424	43494	196694	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBZ	Ave	7793 5054512	34430	159342	424555	1841115	1.00 500	5.00	20.0	50.0	200
Camphene, Total	CBZ	Ave	767 406036	3133	13901	37202	152280	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCB	Ave	2206 1283521	9540	42221	109616	461283	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromobenzene	DCB	Ave	1977 1067836	8406	34734	88264	379484	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCB	Ave	10895 6315679	46908	208904	550097	2366935	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCB	Ave	570 307414	2400	11096	27158	114075	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCB	Ave	7259 4487204	31628	139982	367960	1602361	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCB	Ave	7041 4207886	30289	133188	363615	1552696	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCB	Ave	6366 3796135	28026	122917	314912	1363716	1.00 500	5.00	20.0	50.0	200
Butyl Methacrylate	DCB	Ave	2294 1844460	12340	58099	156216	660141	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCB	Ave	5144 3425764	21537	102943	287805	1245895	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCB	Ave	7816 4320596	31710	141151	370631	1598420	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCB	Ave	8864 5344810	37119	170486	479030	2042179	1.00 500	5.00	20.0	50.0	200
p-Isopropyltoluene	DCB	Ave	7671 4541418	30338	139569	388751	1687399	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCB	Ave	3983 2091605	15779	72109	184156	774559	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCB	Ave	4312 2260990	16877	75188	187741	804241	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCB	Ave	3299 2295317	16040	76804	207651	868928	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCB	Ave	4314 2493579	18463	88348	233677	982829	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCB	Ave	3885 1895666	15935	70075	179642	733794	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCB	Ave	312 162139	1424	6249	14234	61445	1.00 500	5.00	20.0	50.0	200
Camphor	DCB	Ave	618 426627	3918	15845	30944	143314	5.00 2500	25.0	100	250	1000
1,2,4-Trichlorobenzene	DCB	Ave	2584 910864	8036	35491	88179	383522	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCB	Ave	1078 468418	3768	18115	46431	196089	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCB	Qua	6290 1854607	16013	79460	163833	724351	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1 Analy Batch No.: 204517

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/27/2014 02:53 Calibration End Date: 01/27/2014 05:35 Calibration ID: 34657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCB	Qua	2784 577468	6043	24135	53850	243889	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	66880 81265	68425	54842	68992	75643	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	82409 101212	82968	69593	82805	94358	50.0 50.0	50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	257389 331178	262672	223314	271886	305027	50.0 50.0	50.0	50.0	50.0	50.0
Bromofluorobenzene	DCB	Ave	67327 85000	71743	60837	70421	77723	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98627.D
Lims ID: STD20 Lab Sample ID: LCS 460-204446/4-A
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Jan-2014 02:53:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0009219-003
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 28-Jan-2014 12:21:49 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: boykink Date: 27-Jan-2014 03:16:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.551	1.551	0.0	86	42869	18.5	
4 Chloromethane	50	1.704	1.704	0.0	88	68116	18.1	
6 Vinyl chloride	62	1.814	1.814	0.0	71	62029	17.7	
5 Butadiene	54	1.814	1.814	0.0	72	59648	NC	
9 Bromomethane	94	2.118	2.118	0.0	99	35382	18.5	
10 Chloroethane	64	2.198	2.198	0.0	96	37248	17.9	
12 Dichlorofluoromethane	67	2.405	2.405	0.0	90	88280	NC	
13 Trichlorofluoromethane	101	2.423	2.423	0.0	43	57382	18.3	
11 Pentane	72	2.435	2.435	0.0	94	16910	39.3	
16 Ethanol	46	2.643	2.643	0.0	72	5827	944.3	
14 Ethyl ether	59	2.655	2.655	0.0	83	33705	18.3	
15 2-Methyl-1,3-butadiene	67	2.667	2.667	0.0	97	60723	18.3	
17 Acrolein	56	2.832	2.832	0.0	59	9966	32.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.856	2.856	0.0	62	34545	18.2	
20 1,1-Dichloroethene	96	2.868	2.868	0.0	88	32927	17.8	
21 Acetone	43	2.966	2.966	0.0	80	70084	84.0	
22 Iodomethane	142	3.033	3.033	0.0	97	50080	15.1	
23 Carbon disulfide	76	3.063	3.063	0.0	98	122443	17.1	
138 Isopropyl alcohol	45	3.075	3.075	0.0	1	17187	169.6	
141 3-Chloro-1-propene	76	3.197	3.197	0.0	0	22339	18.1	
25 Cyclopentene	67	3.222	3.222	0.0	82	111392	NC	
24 Methyl acetate	43	3.222	3.222	0.0	97	138436	85.1	
26 Acetonitrile	41	3.271	3.271	0.0	47	44012	134.6	
27 Methylene Chloride	84	3.325	3.325	0.0	87	40447	18.5	
* 28 TBA-d9 (IS)	65	3.368	3.368	0.0	89	142248	1000.0	
29 2-Methyl-2-propanol	59	3.435	3.435	0.0	54	31282	157.7	
31 trans-1,2-Dichloroethene	96	3.514	3.514	0.0	87	34751	17.7	
30 Methyl tert-butyl ether	73	3.514	3.514	0.0	91	112214	18.9	
32 Acrylonitrile	53	3.588	3.588	0.0	95	147801	188.1	
33 Hexane	43	3.667	3.667	0.0	92	34930	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Isopropyl ether	45	3.868	3.868	0.0	97	137810	18.4	
35 1,1-Dichloroethane	63	3.886	3.886	0.0	83	71729	17.9	
36 Vinyl acetate	43	3.905	3.905	0.0	100	192435	35.0	
37 2-Chloro-1,3-butadiene	88	3.929	3.929	0.0	73	33337	NC	
39 Tert-butyl ethyl ether	59	4.161	4.161	0.0	88	122231	NC	
40 2,2-Dichloropropane	77	4.337	4.337	0.0	71	54785	17.1	
41 cis-1,2-Dichloroethene	96	4.344	4.344	0.0	85	38930	17.8	
42 Ethyl acetate	70	4.368	4.368	0.0	95	6978	37.9	
43 2-Butanone (MEK)	72	4.368	4.368	0.0	96	20769	80.6	
44 Methyl acrylate	55	4.417	4.417	0.0	94	31572	NC	
45 Propionitrile	54	4.478	4.478	0.0	72	47709	NC	
47 Chlorobromomethane	128	4.539	4.539	0.0	62	17042	18.0	
46 Tetrahydrofuran	42	4.551	4.551	0.0	29	27619	30.7	
48 Methacrylonitrile	67	4.557	4.557	0.0	92	149971	NC	
49 Chloroform	83	4.581	4.581	0.0	84	61468	18.1	
50 Cyclohexane	56	4.697	4.697	0.0	92	73050	18.4	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.709	0.0	80	54842	36.8	
51 1,1,1-Trichloroethane	97	4.709	4.709	0.0	72	50839	18.1	
53 Carbon tetrachloride	117	4.801	4.801	0.0	88	40355	17.5	
54 1,1-Dichloropropene	75	4.819	4.819	0.0	94	45803	17.9	
57 Isobutyl alcohol	43	4.923	4.923	0.0	93	27153	NC	
55 Benzene	78	4.978	4.978	0.0	94	148289	18.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.984	0.0	85	69593	37.9	
58 Isopropyl acetate	43	5.020	5.020	0.0	86	99309	17.9	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	72	105905	NC	
60 1,2-Dichloroethane	62	5.045	5.045	0.0	70	44655	18.2	
61 n-Heptane	57	5.093	5.093	0.0	57	28565	18.7	
* 62 Fluorobenzene	96	5.197	5.197	0.0	98	292285	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.356	5.356	0.0	95	212609	NC	
140 n-Butanol	56	5.410	5.410	0.0	39	13819	344.9	
64 Trichloroethene	95	5.459	5.459	0.0	92	33162	18.1	
65 Ethyl acrylate	55	5.544	5.544	0.0	95	94357	18.2	
66 Methylcyclohexane	83	5.563	5.563	0.0	93	63163	18.1	
67 1,2-Dichloropropane	63	5.679	5.679	0.0	92	39437	17.9	
* 69 1,4-Dioxane-d8	96	5.727	5.727	0.0	87	16873	1000.0	
68 Methyl methacrylate	100	5.727	5.727	0.0	77	14577	36.2	
70 n-Propyl acetate	43	5.764	5.764	0.0	71	44207	17.5	
71 1,4-Dioxane	88	5.782	5.782	0.0	7	5495	347.9	
72 Dibromomethane	93	5.782	5.782	0.0	93	19655	17.6	
73 Dichlorobromomethane	83	5.892	5.892	0.0	95	44497	17.9	
74 2-Chloroethyl vinyl ether	63	6.160	6.160	0.0	72	15966	18.0	
76 Epichlorohydrin	57	6.258	6.258	0.0	91	49088	363.1	
77 cis-1,3-Dichloropropene	75	6.307	6.307	0.0	74	52366	18.2	
75 2-Nitropropane	41	6.447	6.447	0.0	61	36455	NC	
78 4-Methyl-2-pentanone (MIBK)	43	6.447	6.447	0.0	96	174036	94.2	
$ 79 Toluene-d8 (Surr)	98	6.526	6.526	0.0	96	223314	38.8	
80 Toluene	91	6.587	6.587	0.0	86	139064	18.0	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	95	40363	18.0	
82 Ethyl methacrylate	69	6.855	6.855	0.0	86	46064	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	91	24044	17.5	
84 Tetrachloroethene	166	7.038	7.038	0.0	78	27117	17.8	
85 1,3-Dichloropropane	76	7.136	7.136	0.0	92	47702	17.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.166	7.166	0.0	93	109809	94.3	
87 n-Butyl acetate	73	7.227	7.227	0.0	95	8584	18.9	
88 Chlorodibromomethane	129	7.282	7.282	0.0	96	26918	18.5	
89 Ethylene Dibromide	107	7.386	7.386	0.0	97	25584	19.0	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	87	180684	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	92	80969	17.8	
92 Ethylbenzene	106	7.757	7.757	0.0	95	47186	17.6	
93 1,1,1,2-Tetrachloroethane	131	7.764	7.764	0.0	45	29982	17.8	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	59372	18.5	
95 n-Butyl acrylate	73	8.062	8.062	0.0	97	28978	19.1	
96 o-Xylene	106	8.099	8.099	0.0	88	60971	17.9	
97 Styrene	104	8.111	8.111	0.0	90	100130	18.1	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	90	70971	18.1	
99 Bromoform	173	8.251	8.251	0.0	95	17424	18.6	
100 Isopropylbenzene	105	8.312	8.312	0.0	96	159342	18.2	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	81	60837	37.2	
102 Camphene	41	8.452	8.452	0.0	96	13901	18.0	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.526	0.0	77	42221	16.9	
104 Bromobenzene	156	8.526	8.526	0.0	94	34734	16.4	
105 N-Propylbenzene	91	8.550	8.550	0.0	85	208904	16.8	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	26	10754	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	61	11096	17.7	
107 4-Ethyltoluene	105	8.617	8.617	0.0	91	170062	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	95	139982	16.6	
109 1,3,5-Trimethylbenzene	105	8.654	8.654	0.0	73	133188	16.4	
110 Butyl Methacrylate	87	8.690	8.690	0.0	69	58099	17.5	
111 4-Chlorotoluene	91	8.690	8.690	0.0	94	122917	16.8	
112 tert-Butylbenzene	119	8.830	8.830	0.0	91	102943	16.4	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	52	141151	16.5	
114 sec-Butylbenzene	105	8.946	8.946	0.0	99	170486	16.4	
115 4-Isopropyltoluene	119	9.026	9.026	0.0	94	139569	16.1	
116 1,3-Dichlorobenzene	146	9.044	9.044	0.0	94	72109	17.0	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	97	107030	50.0	
118 1,4-Dichlorobenzene	146	9.093	9.093	0.0	82	75188	16.8	
119 Benzyl chloride	91	9.172	9.172	0.0	98	76804	17.5	
120 2,3-Dihydroindene	117	9.221	9.221	0.0	92	158135	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	91	97331	NC	
122 n-Butylbenzene	92	9.251	9.251	0.0	99	88348	17.4	
123 1,2-Dichlorobenzene	146	9.312	9.312	0.0	94	70075	17.1	
124 1,2,4,5-Tetramethylbenzene	119	9.702	9.702	0.0	98	128496	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.794	9.794	0.0	91	6249	18.2	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	94	47333	NC	
127 Camphor	95	10.275	10.275	0.0	91	15845	96.3	
128 1,2,4-Trichlorobenzene	180	10.342	10.342	0.0	94	35491	16.2	
129 Hexachlorobutadiene	225	10.415	10.415	0.0	89	18115	17.2	
130 Naphthalene	128	10.550	10.550	0.0	99	79460	21.0	
133 1,2,3-Trichlorobenzene	180	10.757	10.757	0.0	92	24135	19.0	
S 136 1,2-Dichloroethene, Total	100				0		35.6	
S 137 Xylenes, Total	100				0		36.4	
S 147 Total BTEX	1				0		90.3	

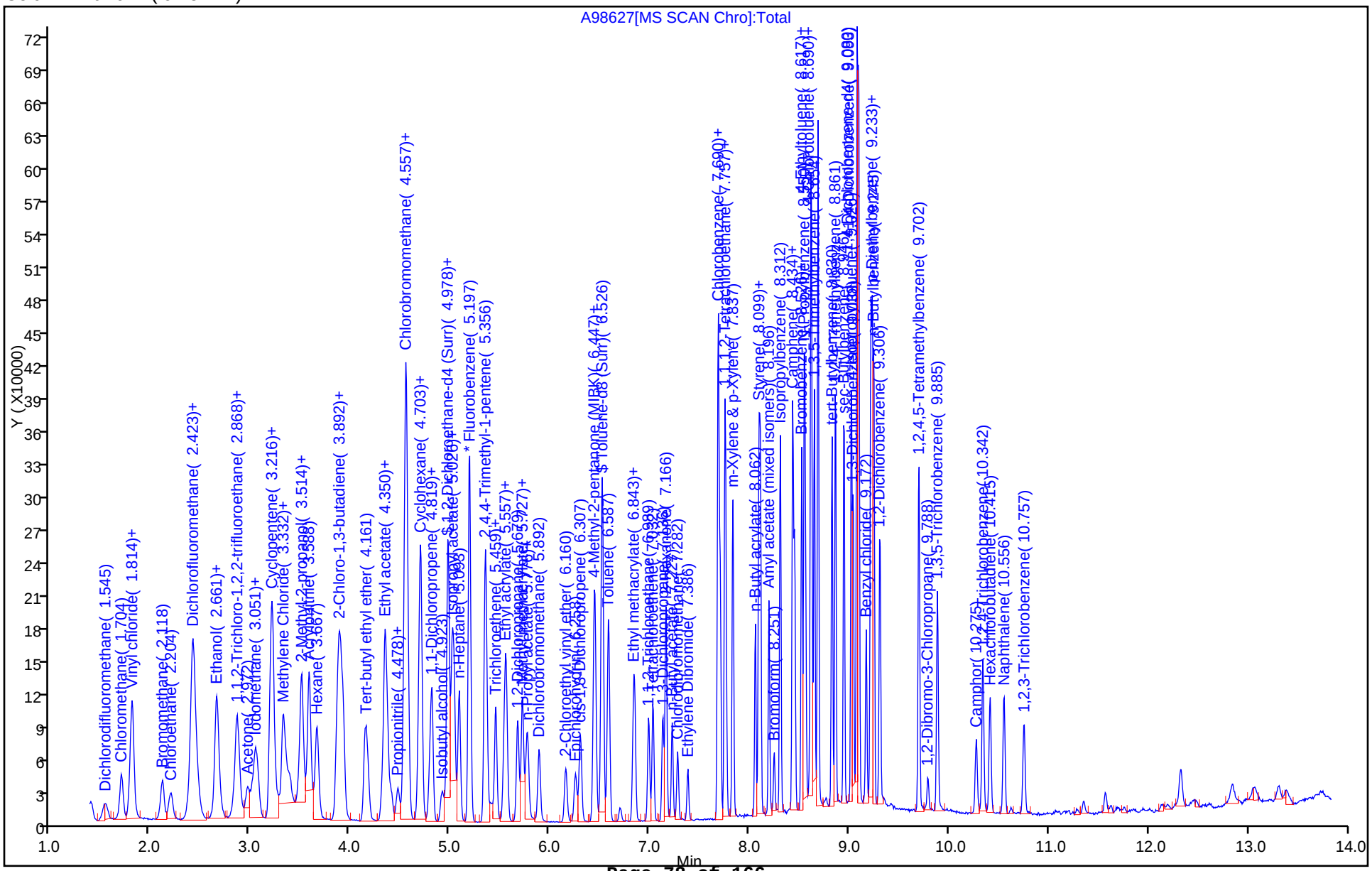
Report Date: 28-Jan-2014 12:21:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98627.D

Injection Date:	27-Jan-2014 02:53:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD20	Lab Sample ID:	LCS 460-204446/4-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98631.D
Lims ID: STD1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Jan-2014 04:14:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0009219-007
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 28-Jan-2014 12:21:52 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: martineze Date: 27-Jan-2014 08:23:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.533	1.551	-0.018	26	2187	1.15	
4 Chloromethane	50	1.710	1.704	0.006	75	3743	1.21	
6 Vinyl chloride	62	1.807	1.814	-0.007	44	3282	1.14	
5 Butadiene	54	1.807	1.814	-0.007	73	3254	NC	
9 Bromomethane	94	2.118	2.118	0.0	60	1691	1.07	
10 Chloroethane	64	2.204	2.198	0.006	28	1968	1.15	
12 Dichlorofluoromethane	67	2.411	2.405	0.006	70	4809	NC	
13 Trichlorofluoromethane	101	2.417	2.423	-0.006	28	2813	1.09	
11 Pentane	72	2.423	2.435	-0.012	88	646	1.83	
16 Ethanol	46	2.643	2.643	-0.001	1	162	32.7	M
14 Ethyl ether	59	2.643	2.655	-0.013	84	1937	1.28	
15 2-Methyl-1,3-butadiene	67	2.673	2.667	0.006	66	3132	1.15	
17 Acrolein	56	2.844	2.832	0.012	38	1018	4.19	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.868	2.856	0.012	23	1587	1.01	
20 1,1-Dichloroethene	96	2.868	2.868	0.0	76	1753	1.15	
21 Acetone	43	2.966	2.966	0.0	68	5428	7.90	
22 Iodomethane	142	3.027	3.033	-0.006	72	2885	1.08	
23 Carbon disulfide	76	3.063	3.063	0.0	98	7059	1.20	
138 Isopropyl alcohol	45	3.063	3.075	-0.012	7	894	11.0	
141 3-Chloro-1-propene	76	3.203	3.197	0.006	0	1028	1.01	
25 Cyclopentene	67	3.222	3.222	0.0	71	6823	NC	
24 Methyl acetate	43	3.222	3.222	0.0	95	7872	5.88	
26 Acetonitrile	41	3.277	3.271	0.006	70	3006	11.5	
27 Methylene Chloride	84	3.325	3.325	0.0	32	1949	1.08	
* 28 TBA-d9 (IS)	65	3.356	3.368	-0.012	87	114096	1000.0	
29 2-Methyl-2-propanol	59	3.411	3.435	-0.024	47	1757	11.0	
31 trans-1,2-Dichloroethene	96	3.514	3.514	0.0	76	2008	1.24	
30 Methyl tert-butyl ether	73	3.490	3.514	-0.024	73	5392	1.10	
32 Acrylonitrile	53	3.594	3.588	0.006	92	6607	10.2	
33 Hexane	43	3.661	3.667	-0.006	83	2013	1.26	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Isopropyl ether	45	3.874	3.868	0.006	89	6940	1.12	
35 1,1-Dichloroethane	63	3.886	3.886	0.0	72	3890	1.18	
36 Vinyl acetate	43	3.911	3.905	0.006	99	10627	2.35	
37 2-Chloro-1,3-butadiene	88	3.923	3.929	-0.006	42	1640	NC	
39 Tert-butyl ethyl ether	59	4.148	4.161	-0.013	77	5974	NC	
40 2,2-Dichloropropane	77	4.337	4.337	0.0	57	3316	1.26	
41 cis-1,2-Dichloroethene	96	4.349	4.344	0.005	81	2151	1.20	
42 Ethyl acetate	70	4.392	4.368	0.024	1	250	1.65	
43 2-Butanone (MEK)	72	4.374	4.368	0.006	87	912	4.41	
44 Methyl acrylate	55	4.417	4.417	0.0	24	1684	NC	
45 Propionitrile	54	4.484	4.478	0.006	77	2212	NC	
47 Chlorobromomethane	128	4.538	4.539	-0.001	68	1049	1.35	
46 Tetrahydrofuran	42	4.557	4.551	0.006	27	1445	2.01	
48 Methacrylonitrile	67	4.563	4.557	0.006	89	6860	NC	
49 Chloroform	83	4.575	4.581	-0.006	65	3140	1.12	
50 Cyclohexane	56	4.697	4.697	0.0	17	3488	1.07	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.709	0.0	92	66880	54.6	
51 1,1,1-Trichloroethane	97	4.715	4.709	0.006	8	2682	1.16	
53 Carbon tetrachloride	117	4.801	4.801	0.0	69	2286	1.20	
54 1,1-Dichloropropene	75	4.819	4.819	0.0	73	2464	1.17	
57 Isobutyl alcohol	43	4.929	4.923	0.006	44	1233	NC	
55 Benzene	78	4.977	4.978	-0.001	44	7768	1.22	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.984	0.0	70	82409	54.6	
58 Isopropyl acetate	43	5.020	5.020	0.0	71	4774	1.05	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	86	4634	NC	
60 1,2-Dichloroethane	62	5.044	5.045	-0.001	64	2241	1.11	
61 n-Heptane	57	5.093	5.093	0.0	79	1319	1.05	
* 62 Fluorobenzene	96	5.197	5.197	0.0	98	240560	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.355	5.356	-0.001	89	8719	NC	
140 n-Butanol	56	5.404	5.410	-0.006	1	741	23.1	M
64 Trichloroethene	95	5.459	5.459	0.0	71	1580	1.05	
65 Ethyl acrylate	55	5.544	5.544	0.0	76	4461	1.05	M
66 Methylcyclohexane	83	5.563	5.563	0.0	89	3051	1.06	
67 1,2-Dichloropropane	63	5.685	5.679	0.006	66	2014	1.11	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	31	10861	1000.0	
68 Methyl methacrylate	100	5.727	5.727	0.0	64	678	2.04	
70 n-Propyl acetate	43	5.764	5.764	0.0	74	2355	1.13	
71 1,4-Dioxane	88	5.776	5.782	-0.006	1	331	32.6	
72 Dibromomethane	93	5.782	5.782	0.0	72	1090	1.19	
73 Dichlorobromomethane	83	5.898	5.892	0.006	79	2208	1.08	
74 2-Chloroethyl vinyl ether	63	6.160	6.160	0.0	20	726	0.99	
76 Epichlorohydrin	57	6.258	6.258	0.0	56	2404	22.5	
77 cis-1,3-Dichloropropene	75	6.300	6.307	-0.007	53	2420	1.07	
75 2-Nitropropane	41	6.447	6.447	0.0	58	1715	NC	
78 4-Methyl-2-pentanone (MIBK)	43	6.447	6.447	0.0	90	7847	5.38	
$ 79 Toluene-d8 (Surr)	98	6.526	6.526	0.0	98	257389	56.6	
80 Toluene	91	6.587	6.587	0.0	79	7143	1.17	
81 trans-1,3-Dichloropropene	75	6.843	6.837	0.006	60	1815	1.02	
82 Ethyl methacrylate	69	6.849	6.855	-0.006	55	2089	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	69	1421	1.31	
84 Tetrachloroethene	166	7.038	7.038	0.0	69	1347	1.12	
85 1,3-Dichloropropane	76	7.136	7.136	0.0	71	2420	1.15	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.160	7.166	-0.006	77	5183	5.64	
87 n-Butyl acetate	73	7.221	7.227	-0.006	84	369	1.03	
88 Chlorodibromomethane	129	7.282	7.282	0.0	50	1276	1.11	
89 Ethylene Dibromide	107	7.385	7.386	-0.001	50	1188	1.12	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	85	142635	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	69	4135	1.15	
92 Ethylbenzene	106	7.757	7.757	0.0	91	2530	1.19	
93 1,1,1,2-Tetrachloroethane	131	7.770	7.764	0.006	70	1508	1.13	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	3056	1.20	
95 n-Butyl acrylate	73	8.062	8.062	0.0	89	1283	1.07	
96 o-Xylene	106	8.099	8.099	0.0	89	3398	1.27	
97 Styrene	104	8.111	8.111	0.0	91	5099	1.17	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	84	2992	1.00	
99 Bromoform	173	8.251	8.251	0.0	61	891	1.20	
100 Isopropylbenzene	105	8.312	8.312	0.0	89	7793	1.13	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	82	67327	54.1	
102 Camphene	41	8.452	8.452	0.0	64	767	1.26	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.526	0.0	58	2206	1.16	
104 Bromobenzene	156	8.526	8.526	0.0	90	1977	1.23	
105 N-Propylbenzene	91	8.550	8.550	0.0	96	10895	1.15	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	33	357	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	69	570	1.19	
107 4-Ethyltoluene	105	8.617	8.617	0.0	85	8418	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	85	7259	1.13	
109 1,3,5-Trimethylbenzene	105	8.654	8.654	0.0	79	7041	1.14	
110 Butyl Methacrylate	87	8.690	8.690	0.0	54	2294	0.9070	
111 4-Chlorotoluene	91	8.690	8.690	0.0	92	6366	1.14	
112 tert-Butylbenzene	119	8.830	8.830	0.0	81	5144	1.08	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	90	7816	1.20	
114 sec-Butylbenzene	105	8.946	8.946	0.0	96	8864	1.12	
115 4-Isopropyltoluene	119	9.019	9.026	-0.007	88	7671	1.16	
116 1,3-Dichlorobenzene	146	9.038	9.044	-0.006	90	3983	1.23	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	96	81470	50.0	
118 1,4-Dichlorobenzene	146	9.092	9.093	-0.001	66	4312	1.26	
119 Benzyl chloride	91	9.166	9.172	-0.006	86	3299	0.9877	
120 2,3-Dihydroindene	117	9.214	9.221	-0.007	93	8206	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	85	4973	NC	
122 n-Butylbenzene	92	9.245	9.251	-0.006	78	4314	1.12	
123 1,2-Dichlorobenzene	146	9.306	9.312	-0.006	78	3885	1.25	
124 1,2,4,5-Tetramethylbenzene	119	9.696	9.702	-0.006	91	5894	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.787	9.794	-0.007	12	312	1.19	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	79	2549	NC	
127 Camphor	95	10.269	10.275	-0.006	43	618	4.93	
128 1,2,4-Trichlorobenzene	180	10.342	10.342	0.0	71	2584	1.55	
129 Hexachlorobutadiene	225	10.415	10.415	0.0	46	1078	1.34	
130 Naphthalene	128	10.549	10.550	-0.001	92	6290	0.9772	
133 1,2,3-Trichlorobenzene	180	10.745	10.757	-0.012	67	2784	2.71	
S 136 1,2-Dichloroethene, Total	100				0		2.44	
S 137 Xylenes, Total	100				0		2.47	
S 147 Total BTEX	1				0		6.05	

QC Flag Legend

Review Flags
M - Manually Integrated

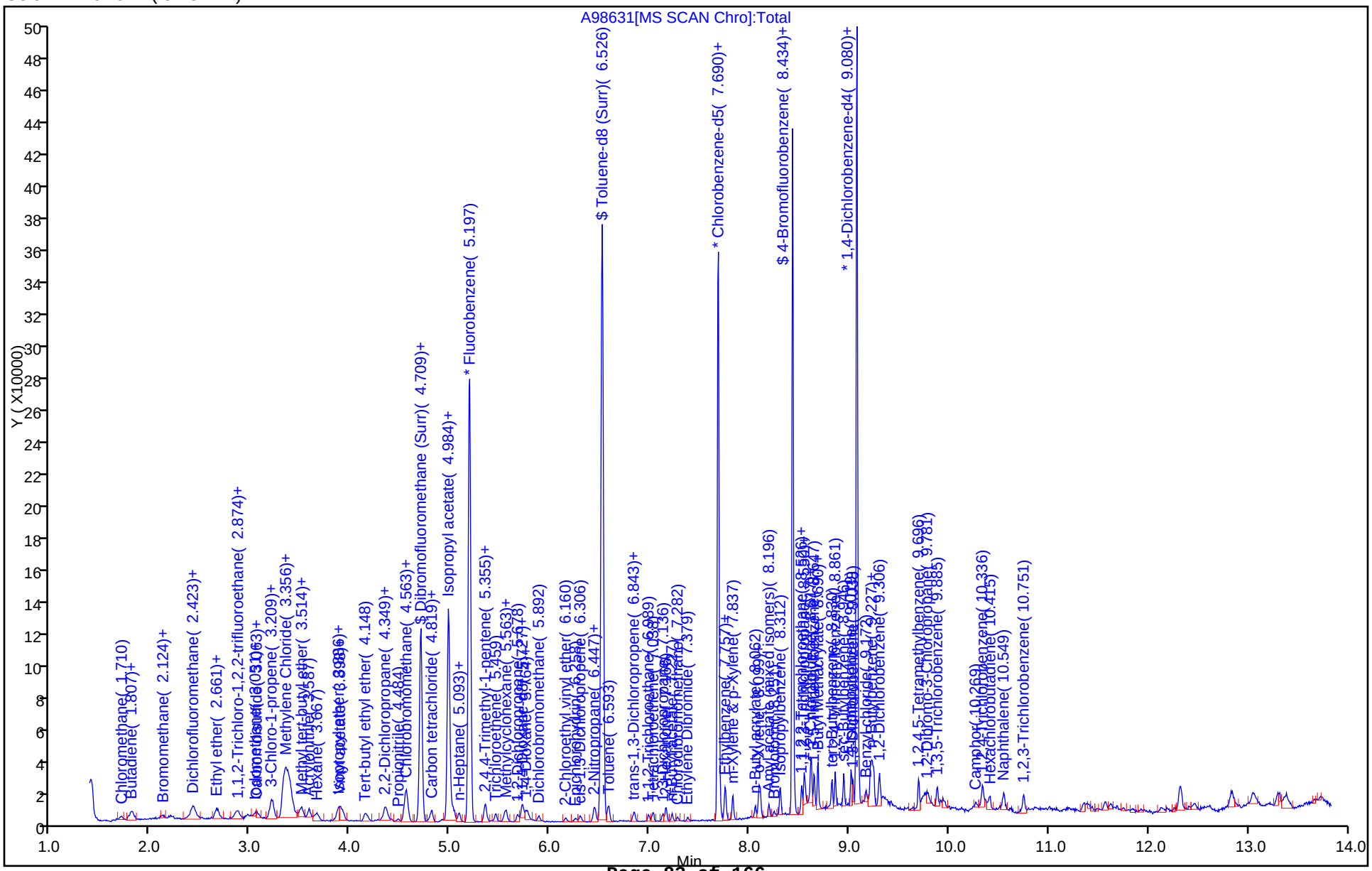
Report Date: 28-Jan-2014 12:21:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98631.D

Injection Date:	27-Jan-2014 04:14:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD1	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

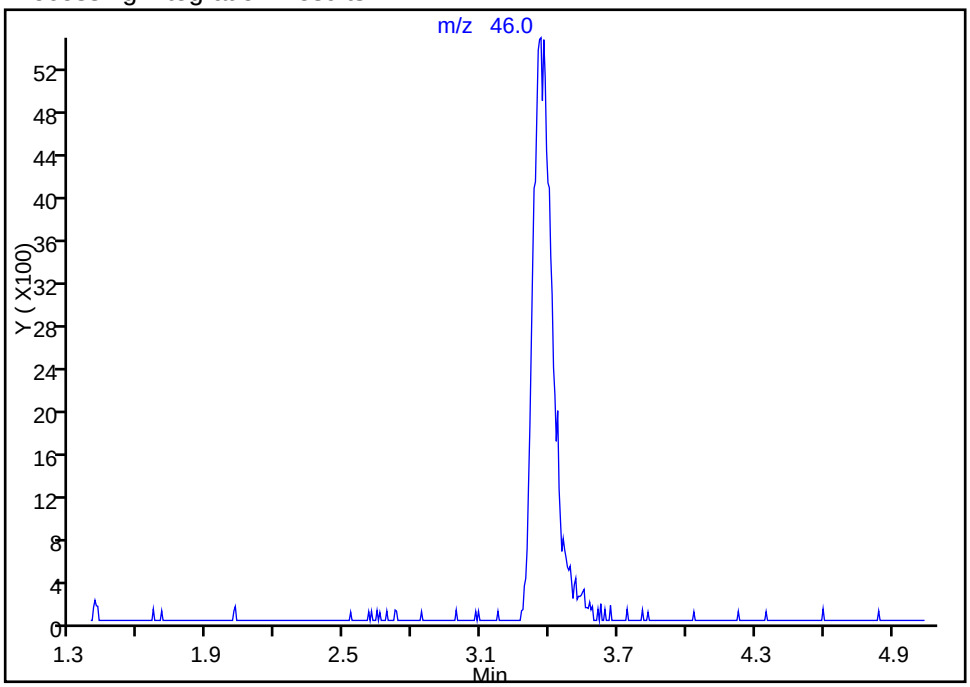
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98631.D
Injection Date: 27-Jan-2014 04:14:30 Instrument ID: CVOAMS1
Lims ID: STD1 Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

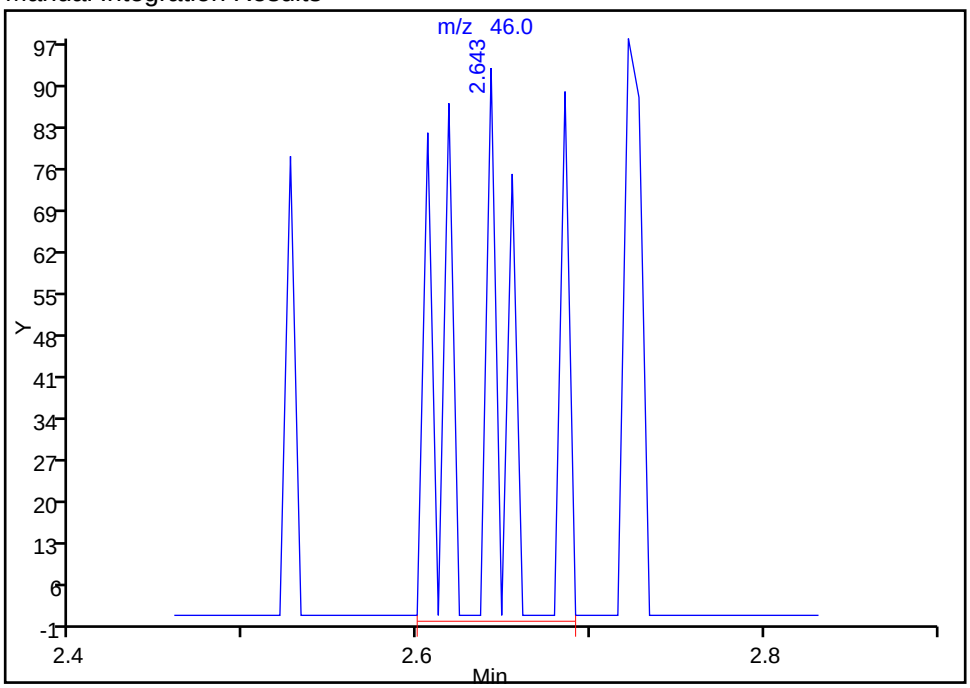
Not Detected
Expected RT: 2.64

Processing Integration Results



Manual Integration Results

RT: 2.64
Response: 162
Amount: 32.731558



Reviewer: martineze, 27-Jan-2014 08:23:29
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Manual Integration/User Assign Peak Report

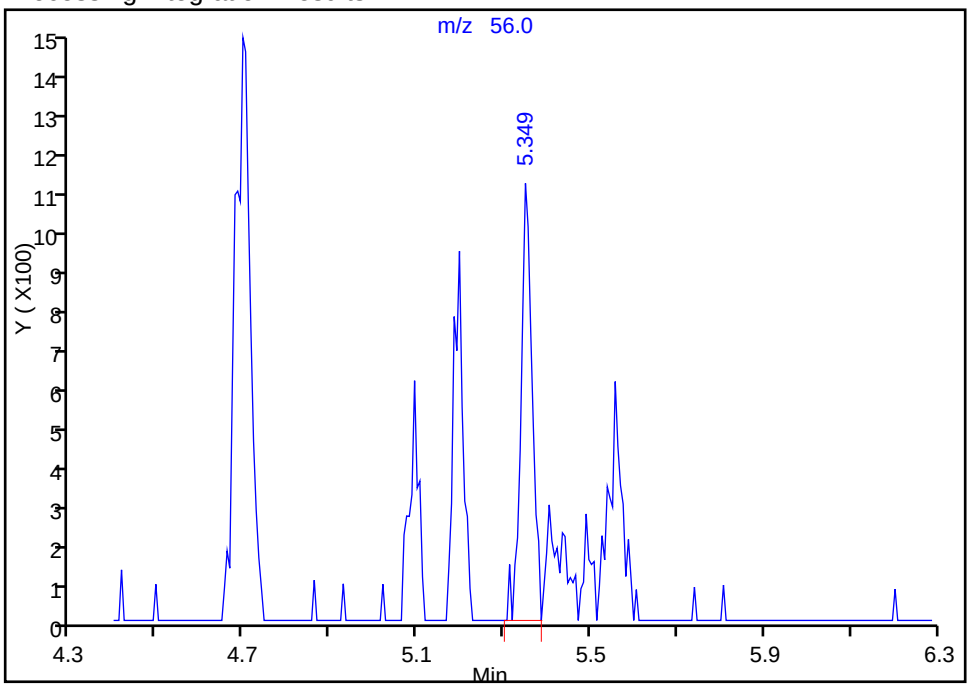
TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98631.D				
Injection Date:	27-Jan-2014 04:14:30	Instrument ID:	CVOAMS1		
Lims ID:	STD1	Lab Sample ID:			
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

140 n-Butanol, CAS: 71-36-3

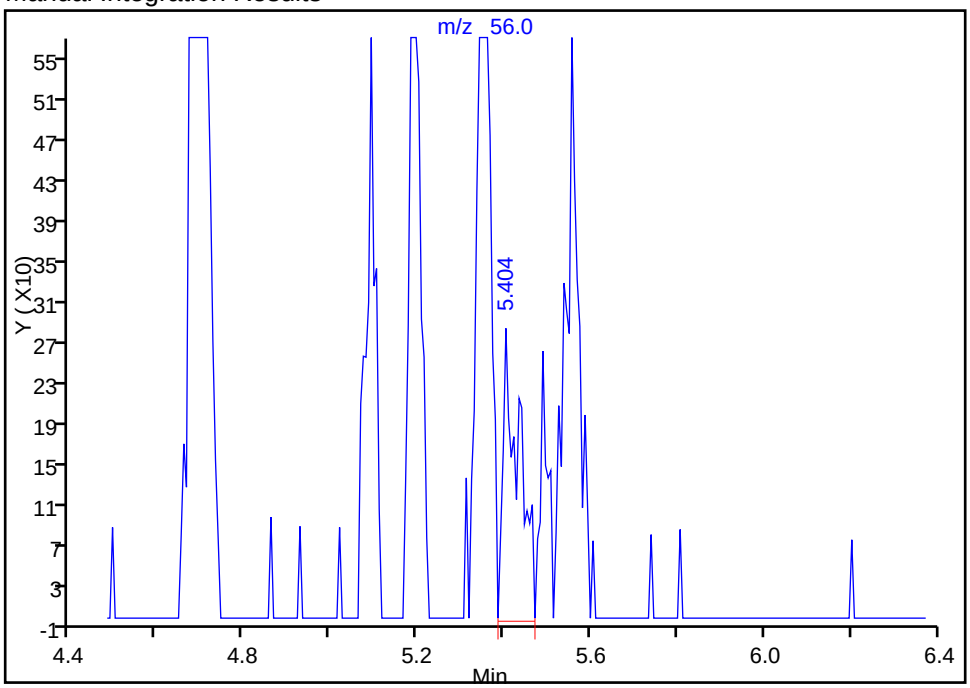
Processing Integration Results

RT: 5.35
Response: 1932
Amount: 31.008415



Manual Integration Results

RT: 5.40
Response: 741
Amount: 23.057401



Reviewer: martineze, 27-Jan-2014 08:33:02
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

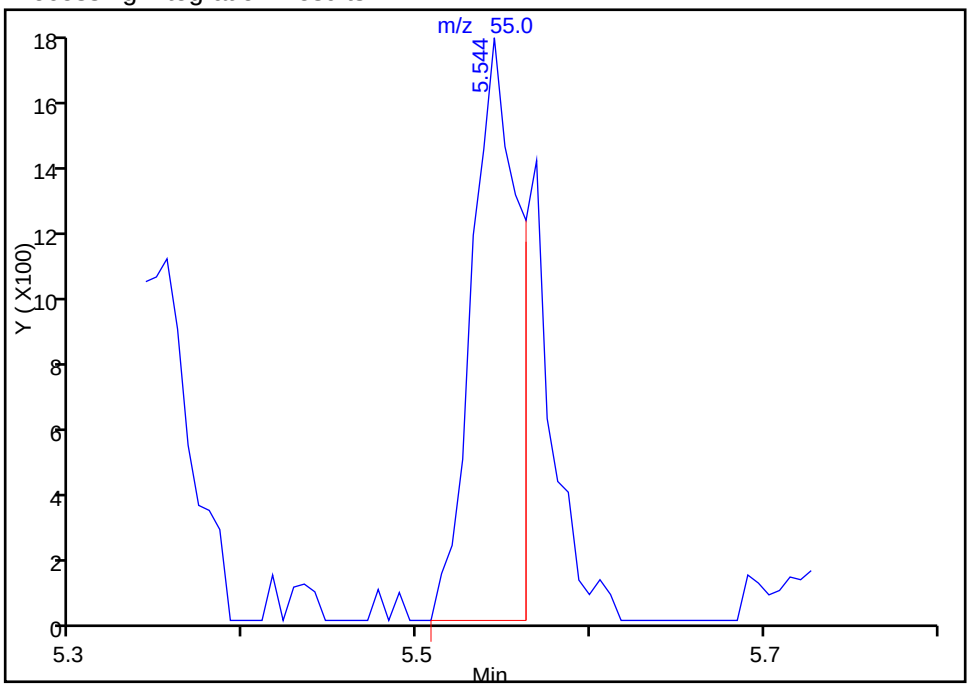
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98631.D
Injection Date: 27-Jan-2014 04:14:30 Instrument ID: CVOAMS1
Lims ID: STD1 Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

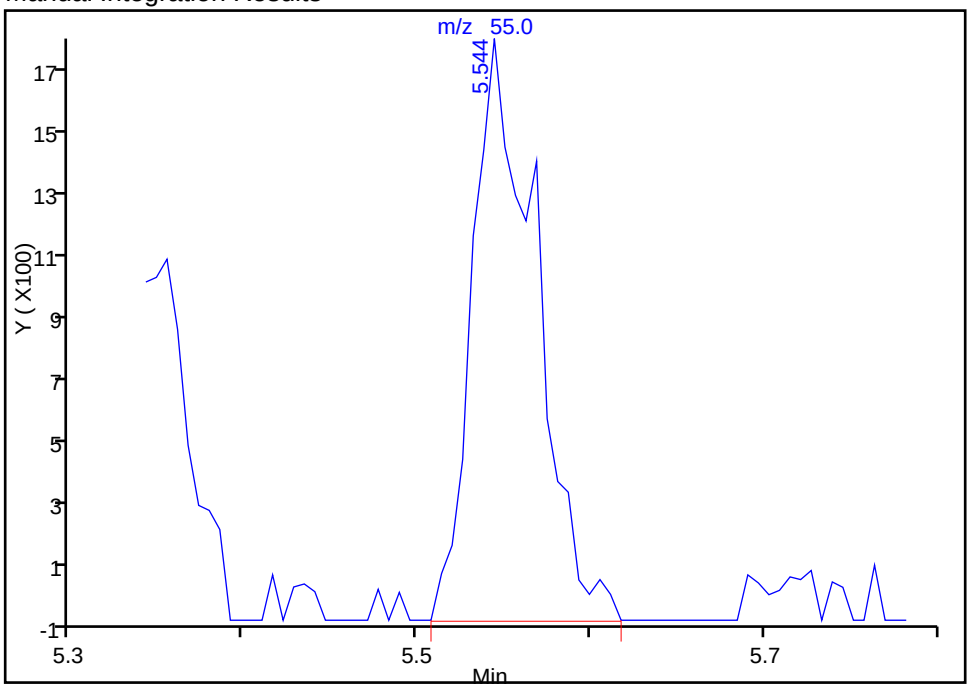
Processing Integration Results

RT: 5.54
Response: 3285
Amount: 0.809127



Manual Integration Results

RT: 5.54
Response: 4461
Amount: 1.048184



Reviewer: baronm, 27-Jan-2014 17:31:26
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98632.D
Lims ID: STD5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Jan-2014 04:34:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0009219-008
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 28-Jan-2014 12:21:55 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: martineze Date: 27-Jan-2014 08:24:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.545	1.551	-0.006	73	9939	4.90	
4 Chloromethane	50	1.698	1.704	-0.006	85	16343	4.96	
6 Vinyl chloride	62	1.807	1.814	-0.007	92	15185	4.93	
5 Butadiene	54	1.813	1.814	-0.001	81	14569	NC	
9 Bromomethane	94	2.112	2.118	-0.006	93	8648	5.15	
10 Chloroethane	64	2.191	2.198	-0.007	88	9703	5.30	
12 Dichlorofluoromethane	67	2.405	2.405	0.0	83	21487	NC	
13 Trichlorofluoromethane	101	2.417	2.423	-0.006	43	13483	4.91	
11 Pentane	72	2.429	2.435	-0.006	97	3699	9.81	
16 Ethanol	46	2.667	2.643	0.024	78	1514	289.0	M
14 Ethyl ether	59	2.649	2.655	-0.006	90	7855	4.86	
15 2-Methyl-1,3-butadiene	67	2.661	2.667	-0.006	96	14029	4.83	
17 Acrolein	56	2.825	2.832	-0.007	72	4600	17.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.862	2.856	0.006	51	7718	4.63	
20 1,1-Dichloroethene	96	2.862	2.868	-0.006	83	7604	4.68	
21 Acetone	43	2.960	2.966	-0.006	71	16796	22.9	
22 Iodomethane	142	3.027	3.033	-0.006	96	11753	4.17	
23 Carbon disulfide	76	3.057	3.063	-0.006	98	28217	4.49	
138 Isopropyl alcohol	45	3.088	3.075	0.013	1	4563	53.0	M
141 3-Chloro-1-propene	76	3.191	3.197	-0.006	0	5124	4.74	
25 Cyclopentene	67	3.216	3.222	-0.006	82	27528	NC	
24 Methyl acetate	43	3.222	3.222	0.0	97	34978	24.5	
26 Acetonitrile	41	3.277	3.271	0.006	72	11945	43.0	
27 Methylene Chloride	84	3.325	3.325	0.0	50	9573	4.99	
* 28 TBA-d9 (IS)	65	3.356	3.368	-0.012	93	120755	1000.0	
29 2-Methyl-2-propanol	59	3.417	3.435	-0.018	1	8162	48.5	M
31 trans-1,2-Dichloroethene	96	3.514	3.514	0.0	92	8178	4.76	
30 Methyl tert-butyl ether	73	3.514	3.514	0.0	86	24449	4.69	
32 Acrylonitrile	53	3.587	3.588	-0.001	91	32947	47.8	
33 Hexane	43	3.661	3.667	-0.006	89	6923	4.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Isopropyl ether	45	3.880	3.868	0.012	85	30462	4.63	
35 1,1-Dichloroethane	63	3.886	3.886	0.0	83	16156	4.58	
36 Vinyl acetate	43	3.904	3.905	-0.001	100	43216	8.97	
37 2-Chloro-1,3-butadiene	88	3.929	3.929	0.0	75	7563	NC	
39 Tert-butyl ethyl ether	59	4.154	4.161	-0.007	87	26506	NC	
40 2,2-Dichloropropane	77	4.331	4.337	-0.006	75	13054	4.64	
41 cis-1,2-Dichloroethene	96	4.350	4.344	0.006	86	9098	4.75	
42 Ethyl acetate	70	4.368	4.368	0.0	95	1617	10.0	
43 2-Butanone (MEK)	72	4.368	4.368	0.0	91	4310	19.7	
44 Methyl acrylate	55	4.410	4.417	-0.007	59	6963	NC	
45 Propionitrile	54	4.484	4.478	0.006	56	10969	NC	
47 Chlorobromomethane	128	4.539	4.539	-0.001	77	3418	4.13	
46 Tetrahydrofuran	42	4.551	4.551	0.0	28	6639	8.71	
48 Methacrylonitrile	67	4.557	4.557	0.0	91	32250	NC	
49 Chloroform	83	4.581	4.581	0.0	82	14349	4.81	
50 Cyclohexane	56	4.697	4.697	0.0	42	14273	4.10	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.709	-0.006	97	68425	52.4	
51 1,1,1-Trichloroethane	97	4.703	4.709	-0.006	34	10624	4.31	
53 Carbon tetrachloride	117	4.807	4.801	0.006	89	8936	4.41	
54 1,1-Dichloropropene	75	4.819	4.819	0.0	89	9787	4.37	
57 Isobutyl alcohol	43	4.923	4.923	0.0	73	6389	NC	
55 Benzene	78	4.971	4.978	-0.007	89	33402	4.77	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.984	0.0	82	82968	51.5	
58 Isopropyl acetate	43	5.020	5.020	0.0	91	22750	4.69	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	93	23001	NC	
60 1,2-Dichloroethane	62	5.045	5.045	-0.001	60	10242	4.75	
61 n-Heptane	57	5.093	5.093	0.0	83	5346	3.99	
* 62 Fluorobenzene	96	5.197	5.197	0.0	98	256384	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.349	5.356	-0.007	97	44848	NC	
140 n-Butanol	56	5.416	5.410	0.006	41	3245	95.4	
64 Trichloroethene	95	5.459	5.459	0.0	87	7188	4.47	
65 Ethyl acrylate	55	5.544	5.544	0.0	94	18030	3.97	
66 Methylcyclohexane	83	5.563	5.563	0.0	92	12156	3.98	
67 1,2-Dichloropropane	63	5.679	5.679	0.0	90	9149	4.74	
* 69 1,4-Dioxane-d8	96	5.727	5.727	0.0	64	10108	1000.0	
68 Methyl methacrylate	100	5.727	5.727	0.0	79	3221	9.11	
70 n-Propyl acetate	43	5.770	5.764	0.006	80	9896	4.47	
71 1,4-Dioxane	88	5.764	5.782	-0.018	17	1147	121.2	
72 Dibromomethane	93	5.782	5.782	0.0	84	4574	4.67	
73 Dichlorobromomethane	83	5.892	5.892	0.0	91	10014	4.59	
74 2-Chloroethyl vinyl ether	63	6.160	6.160	0.0	58	3405	4.38	
76 Epichlorohydrin	57	6.252	6.258	-0.006	90	10256	87.7	
77 cis-1,3-Dichloropropene	75	6.306	6.307	-0.001	78	10854	4.36	
75 2-Nitropropane	41	6.447	6.447	0.0	62	8101	NC	
78 4-Methyl-2-pentanone (MIBK)	43	6.453	6.447	0.006	97	36913	23.1	
$ 79 Toluene-d8 (Surr)	98	6.526	6.526	0.0	98	262672	52.7	
80 Toluene	91	6.587	6.587	0.0	94	31153	4.66	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	90	8433	4.34	
82 Ethyl methacrylate	69	6.849	6.855	-0.006	82	9828	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	85	5658	4.75	
84 Tetrachloroethene	166	7.038	7.038	0.0	84	6418	4.87	
85 1,3-Dichloropropane	76	7.136	7.136	0.0	88	10679	4.64	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.166	7.166	0.0	95	23549	23.4	
87 n-Butyl acetate	73	7.227	7.227	0.0	95	1961	4.99	
88 Chlorodibromomethane	129	7.282	7.282	0.0	91	5310	4.23	
89 Ethylene Dibromide	107	7.379	7.386	-0.007	88	5328	4.57	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	86	156368	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	92	18126	4.60	
92 Ethylbenzene	106	7.757	7.757	0.0	99	10622	4.57	
93 1,1,1,2-Tetrachloroethane	131	7.770	7.764	0.006	81	6403	4.38	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	12502	4.50	
95 n-Butyl acrylate	73	8.062	8.062	0.0	96	6367	4.85	
96 o-Xylene	106	8.099	8.099	0.0	88	12859	4.37	
97 Styrene	104	8.111	8.111	0.0	91	21510	4.49	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	90	14667	4.54	
99 Bromoform	173	8.251	8.251	0.0	88	3518	4.33	
100 Isopropylbenzene	105	8.312	8.312	0.0	95	34430	4.54	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	82	71743	53.1	
102 Camphene	41	8.452	8.452	0.0	84	3133	4.69	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.526	0.0	70	9540	4.61	
104 Bromobenzene	156	8.526	8.526	0.0	94	8406	4.81	
105 N-Propylbenzene	91	8.550	8.550	0.0	98	46908	4.55	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	56	2126	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	89	2400	4.62	
107 4-Ethyltoluene	105	8.617	8.617	0.0	93	39050	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	94	31628	4.53	
109 1,3,5-Trimethylbenzene	105	8.654	8.654	0.0	81	30289	4.51	
110 Butyl Methacrylate	87	8.690	8.690	0.0	66	12340	4.49	
111 4-Chlorotoluene	91	8.690	8.690	0.0	97	28026	4.64	
112 tert-Butylbenzene	119	8.830	8.830	0.0	90	21537	4.15	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	96	31710	4.50	
114 sec-Butylbenzene	105	8.946	8.946	0.0	98	37119	4.32	
115 4-Isopropyltoluene	119	9.019	9.026	-0.007	93	30338	4.24	
116 1,3-Dichlorobenzene	146	9.038	9.044	-0.006	92	15779	4.50	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	97	88438	50.0	
118 1,4-Dichlorobenzene	146	9.092	9.093	-0.001	85	16877	4.55	
119 Benzyl chloride	91	9.172	9.172	0.0	97	16040	4.42	
120 2,3-Dihydroindene	117	9.214	9.221	-0.007	94	37419	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	90	22960	NC	
122 n-Butylbenzene	92	9.245	9.251	-0.006	91	18463	4.40	
123 1,2-Dichlorobenzene	146	9.306	9.312	-0.006	93	15935	4.72	
124 1,2,4,5-Tetramethylbenzene	119	9.696	9.702	-0.006	96	30591	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.787	9.794	-0.007	54	1424	5.01	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	94	10794	NC	
127 Camphor	95	10.269	10.275	-0.006	82	3918	28.8	
128 1,2,4-Trichlorobenzene	180	10.342	10.342	0.0	88	8036	4.45	
129 Hexachlorobutadiene	225	10.415	10.415	0.0	76	3768	4.32	
130 Naphthalene	128	10.550	10.550	0.0	97	16013	4.12	
133 1,2,3-Trichlorobenzene	180	10.751	10.757	-0.006	88	6043	5.62	
S 136 1,2-Dichloroethene, Total	100				0		9.51	
S 137 Xylenes, Total	100				0		8.87	
S 147 Total BTEX	1				0		22.9	

QC Flag Legend

Review Flags
M - Manually Integrated

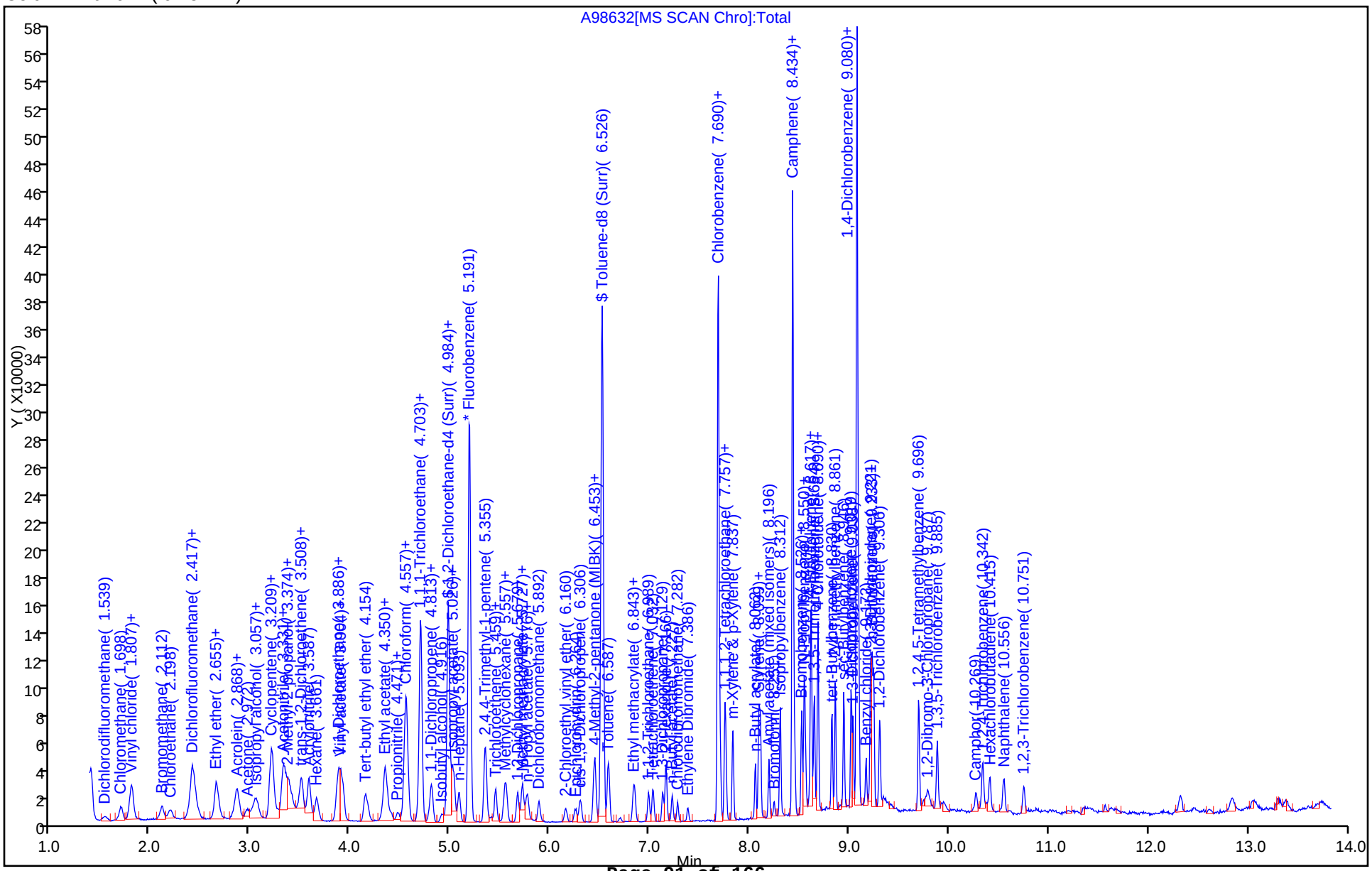
Report Date: 28-Jan-2014 12:21:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98632.D

Injection Date:	27-Jan-2014 04:34:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD5	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

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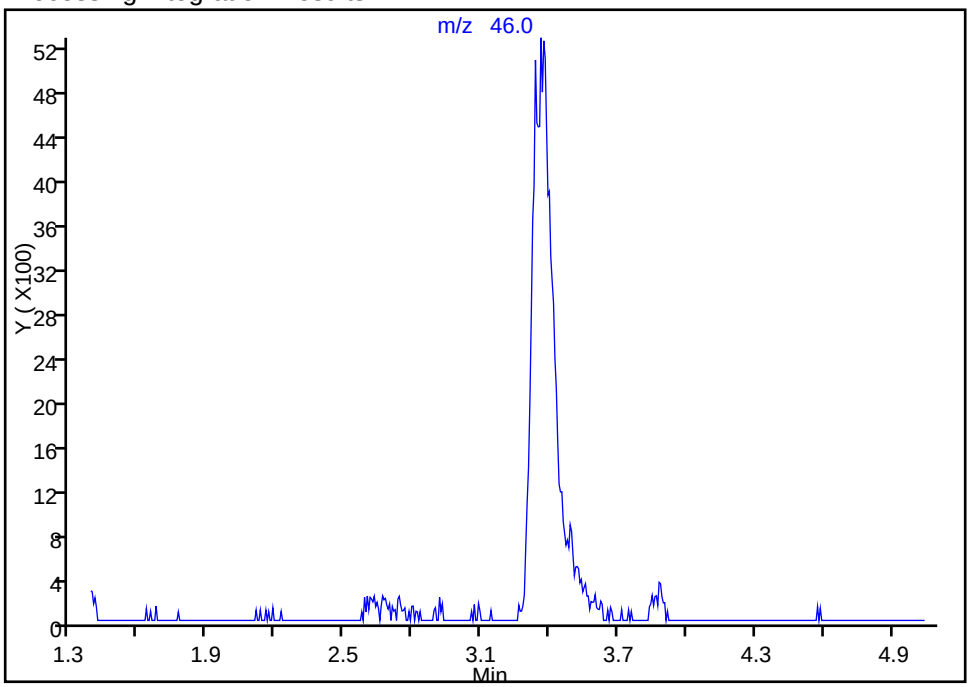
Injection Date: 27-Jan-2014 04:34:30 Instrument ID: CVOAMS1
Lims ID: STD5 Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

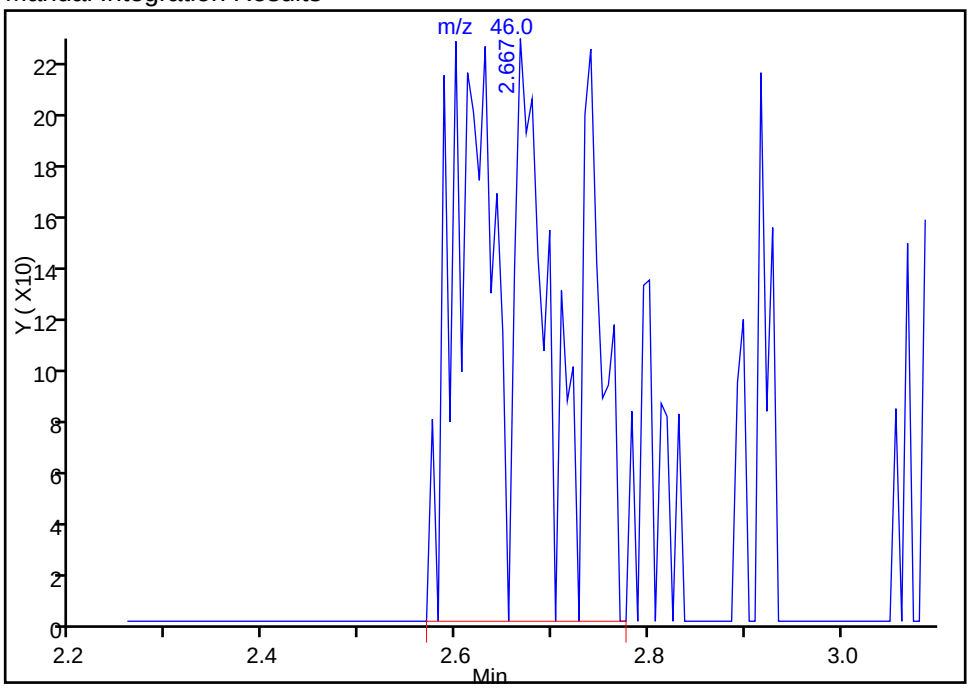
Not Detected
Expected RT: 2.64

Processing Integration Results



Manual Integration Results

RT: 2.67
Response: 1514
Amount: 289.0299



Reviewer: baronm, 27-Jan-2014 17:57:18
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Manual Integration/User Assign Peak Report

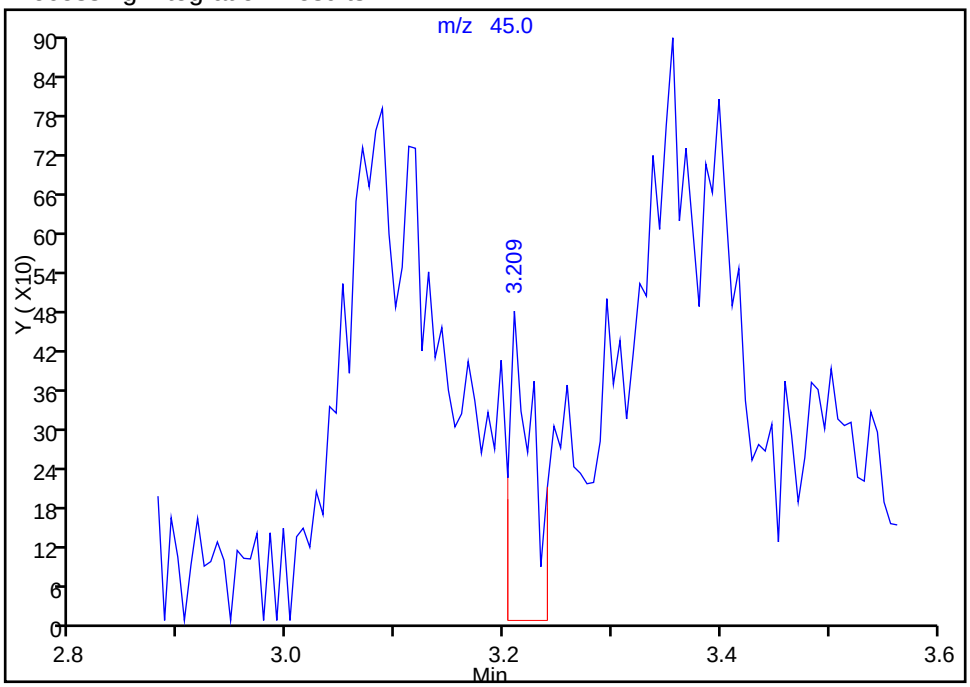
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98632.D
Injection Date: 27-Jan-2014 04:34:30 Instrument ID: CVOAMS1
Lims ID: STD5 Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

138 Isopropyl alcohol, CAS: 67-63-0

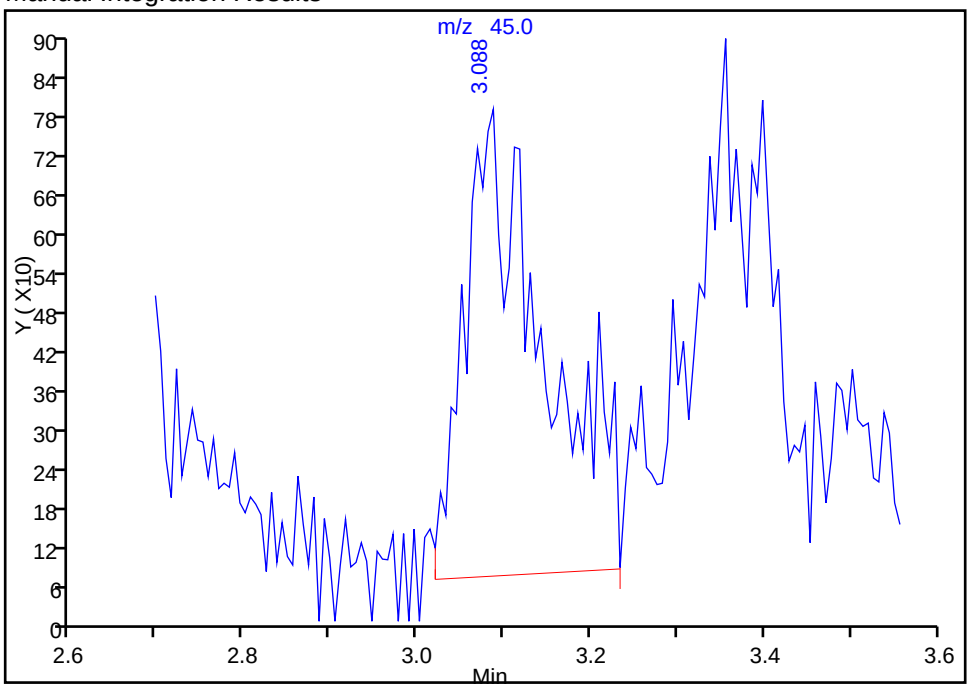
Processing Integration Results

RT: 3.21
Response: 702
Amount: 25.667769



Manual Integration Results

RT: 3.09
Response: 4563
Amount: 53.032673



Reviewer: baronm, 27-Jan-2014 18:17:57
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Manual Integration/User Assign Peak Report

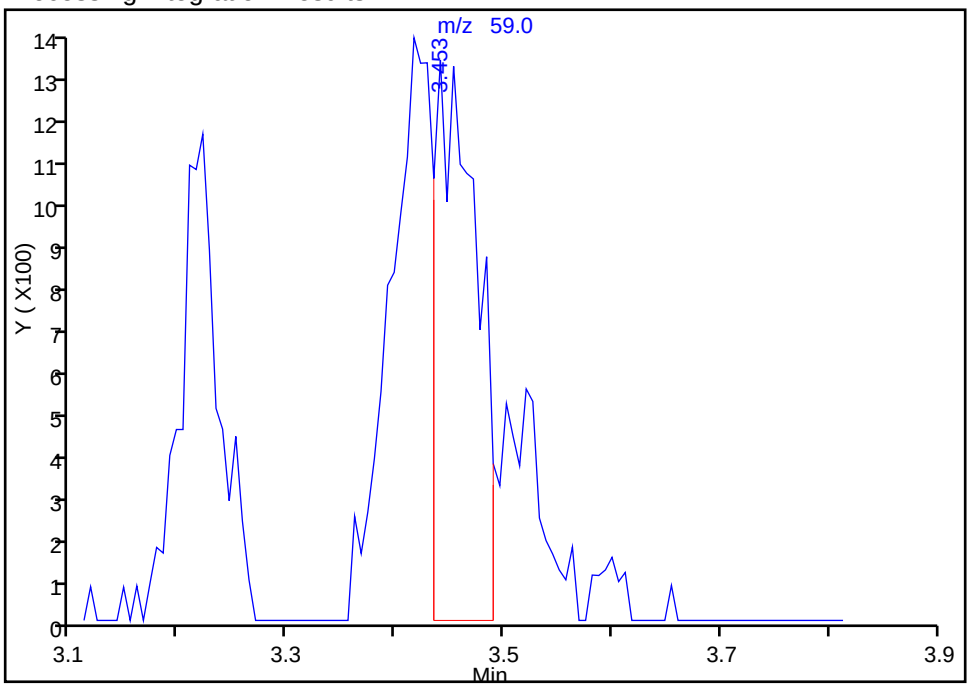
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98632.D
Injection Date: 27-Jan-2014 04:34:30 Instrument ID: CVOAMS1
Lims ID: STD5 Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 2-Methyl-2-propanol, CAS: 75-65-0

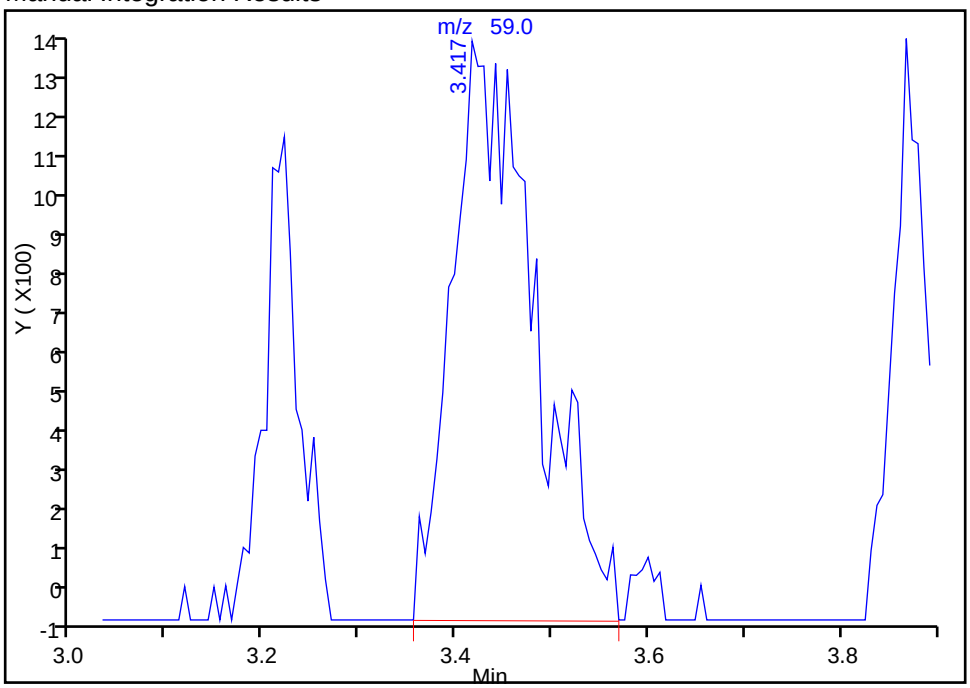
Processing Integration Results

RT: 3.45
Response: 3498
Amount: 34.455923



Manual Integration Results

RT: 3.42
Response: 8162
Amount: 48.462020



Reviewer: martineze, 27-Jan-2014 08:24:49
Audit Action: Manually Integrated
Audit Reason: Split Peak

Report Date: 28-Jan-2014 12:21:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98633.D
Lims ID: STD50 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Jan-2014 04:55:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0009219-009
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 28-Jan-2014 12:21:58 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: martineze Date: 27-Jan-2014 08:28:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.539	1.551	-0.012	88	106838	49.7	
4 Chloromethane	50	1.704	1.704	0.0	89	172486	49.4	
6 Vinyl chloride	62	1.801	1.814	-0.013	83	167543	51.3	
5 Butadiene	54	1.807	1.814	-0.007	79	151443	NC	
9 Bromomethane	94	2.112	2.118	-0.006	99	90522	50.9	
10 Chloroethane	64	2.198	2.198	0.0	97	97983	50.5	
12 Dichlorofluoromethane	67	2.399	2.405	-0.006	90	225526	NC	
13 Trichlorofluoromethane	101	2.411	2.423	-0.012	46	145830	50.1	
11 Pentane	72	2.423	2.435	-0.012	97	41464	103.7	
16 Ethanol	46	2.643	2.643	0.0	73	14558	2937.3	M
14 Ethyl ether	59	2.643	2.655	-0.012	92	81600	47.6	
15 2-Methyl-1,3-butadiene	67	2.661	2.667	-0.006	96	154477	50.2	
17 Acrolein	56	2.819	2.832	-0.013	83	23406	96.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.856	2.856	0.0	89	92190	52.1	
20 1,1-Dichloroethene	96	2.862	2.868	-0.006	87	85837	49.9	
21 Acetone	43	2.966	2.966	0.0	82	176210	227.2	
22 Iodomethane	142	3.021	3.033	-0.012	98	130715	49.0	
23 Carbon disulfide	76	3.057	3.063	-0.006	99	329380	49.5	
138 Isopropyl alcohol	45	3.082	3.075	0.007	38	42638	523.7	
141 3-Chloro-1-propene	76	3.191	3.197	-0.006	0	59528	52.0	
25 Cyclopentene	67	3.216	3.222	-0.006	81	304716	NC	
24 Methyl acetate	43	3.216	3.222	-0.006	97	381056	251.9	
26 Acetonitrile	41	3.264	3.271	-0.007	55	159637	607.7	
27 Methylene Chloride	84	3.325	3.325	0.0	91	105094	51.6	
* 28 TBA-d9 (IS)	65	3.338	3.368	-0.030	31	114256	1000.0	
29 2-Methyl-2-propanol	59	3.417	3.435	-0.018	50	76825	482.1	
31 trans-1,2-Dichloroethene	96	3.508	3.514	-0.006	87	88652	48.6	
30 Methyl tert-butyl ether	73	3.508	3.514	-0.006	95	277461	50.2	
32 Acrylonitrile	53	3.581	3.588	-0.007	93	372816	510.4	
33 Hexane	43	3.661	3.667	-0.006	91	91321	50.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Isopropyl ether	45	3.874	3.868	0.006	92	348163	49.9	
35 1,1-Dichloroethane	63	3.886	3.886	0.0	90	183363	49.1	
36 Vinyl acetate	43	3.905	3.905	0.0	100	508572	99.6	
37 2-Chloro-1,3-butadiene	88	3.929	3.929	0.0	88	90244	NC	
39 Tert-butyl ethyl ether	59	4.155	4.161	-0.006	88	314614	NC	
40 2,2-Dichloropropane	77	4.337	4.337	0.0	72	147389	49.4	
41 cis-1,2-Dichloroethene	96	4.344	4.344	0.0	88	98988	48.8	
42 Ethyl acetate	70	4.368	4.368	0.0	96	17876	104.4	
43 2-Butanone (MEK)	72	4.368	4.368	0.0	96	51109	247.0	
44 Methyl acrylate	55	4.411	4.417	-0.006	95	81779	NC	
45 Propionitrile	54	4.478	4.478	0.0	97	126793	NC	
47 Chlorobromomethane	128	4.539	4.539	0.0	93	42840	48.8	
46 Tetrahydrofuran	42	4.545	4.551	-0.006	80	68529	95.0	
48 Methacrylonitrile	67	4.557	4.557	0.0	92	391423	NC	
49 Chloroform	83	4.575	4.581	-0.006	78	156747	49.6	
50 Cyclohexane	56	4.697	4.697	0.0	91	191728	51.9	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.709	-0.006	51	68992	49.9	
51 1,1,1-Trichloroethane	97	4.703	4.709	-0.006	91	134043	51.4	
53 Carbon tetrachloride	117	4.801	4.801	0.0	88	107599	50.1	
54 1,1-Dichloropropene	75	4.819	4.819	0.0	96	120345	50.7	
57 Isobutyl alcohol	43	4.923	4.923	0.0	92	68366	NC	
55 Benzene	78	4.978	4.978	0.0	96	384519	49.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.984	0.0	73	82805	48.5	
58 Isopropyl acetate	43	5.014	5.020	-0.006	93	262507	51.0	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	90	273688	NC	
60 1,2-Dichloroethane	62	5.039	5.045	-0.006	87	111690	48.9	
61 n-Heptane	57	5.087	5.093	-0.006	90	76382	53.8	
* 62 Fluorobenzene	96	5.191	5.197	-0.006	98	271705	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.356	5.356	0.0	96	589621	NC	
140 n-Butanol	56	5.417	5.410	0.006	42	43549	1353.2	
64 Trichloroethene	95	5.459	5.459	0.0	92	88130	51.8	
65 Ethyl acrylate	55	5.551	5.544	0.007	96	250704	52.2	
66 Methylcyclohexane	83	5.557	5.563	-0.006	97	171596	53.0	
67 1,2-Dichloropropane	63	5.679	5.679	0.0	93	101953	49.9	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	82	11079	1000.0	
68 Methyl methacrylate	100	5.727	5.727	0.0	79	38696	103.3	
70 n-Propyl acetate	43	5.764	5.764	0.0	81	115418	49.1	
71 1,4-Dioxane	88	5.782	5.782	0.0	10	10807	1041.9	
72 Dibromomethane	93	5.776	5.782	-0.006	94	50297	48.4	
73 Dichlorobromomethane	83	5.892	5.892	0.0	96	113727	49.2	
74 2-Chloroethyl vinyl ether	63	6.154	6.160	-0.006	80	41332	50.1	
76 Epichlorohydrin	57	6.258	6.258	0.0	97	129631	1001.4	
77 cis-1,3-Dichloropropene	75	6.307	6.307	0.0	84	139936	50.8	
75 2-Nitropropane	41	6.453	6.447	0.006	61	94037	NC	
78 4-Methyl-2-pentanone (MIBK)	43	6.447	6.447	0.0	96	444443	251.1	
$ 79 Toluene-d8 (Surr)	98	6.526	6.526	0.0	98	271886	49.3	
80 Toluene	91	6.587	6.587	0.0	93	363239	49.1	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	95	108807	50.6	
82 Ethyl methacrylate	69	6.849	6.855	-0.006	87	116267	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	92	61548	46.7	
84 Tetrachloroethene	166	7.038	7.038	0.0	84	72148	49.5	
85 1,3-Dichloropropane	76	7.130	7.136	-0.006	93	125850	49.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.166	7.166	0.0	95	270841	243.0	
87 n-Butyl acetate	73	7.227	7.227	0.0	99	22127	50.9	
88 Chlorodibromomethane	129	7.282	7.282	0.0	97	69465	50.0	
89 Ethylene Dibromide	107	7.386	7.386	0.0	97	64797	50.3	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	86	173025	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	91	214470	49.1	
92 Ethylbenzene	106	7.758	7.757	0.001	99	125059	48.6	
93 1,1,1,2-Tetrachloroethane	131	7.770	7.764	0.006	86	82706	51.2	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	151860	49.3	
95 n-Butyl acrylate	73	8.062	8.062	0.0	97	73954	50.9	
96 o-Xylene	106	8.099	8.099	0.0	90	156770	48.2	
97 Styrene	104	8.111	8.111	0.0	93	258297	48.8	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	90	179113	51.4	
99 Bromoform	173	8.251	8.251	0.0	95	43494	48.4	
100 Isopropylbenzene	105	8.312	8.312	0.0	96	424555	50.5	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	80	70421	48.4	
102 Camphene	41	8.452	8.452	0.0	96	37202	50.3	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.526	0.0	86	109616	49.2	
104 Bromobenzene	156	8.526	8.526	0.0	93	88264	46.9	
105 N-Propylbenzene	91	8.550	8.550	0.0	97	550097	49.6	
139 trans-1,4-Dichloro-2-butene	53	8.568	8.562	0.006	64	25265	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	94	27158	48.5	
107 4-Ethyltoluene	105	8.617	8.617	0.0	92	459463	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	95	367960	48.9	
109 1,3,5-Trimethylbenzene	105	8.654	8.654	0.0	77	363615	50.2	
110 Butyl Methacrylate	87	8.690	8.690	0.0	69	156216	52.8	
111 4-Chlorotoluene	91	8.690	8.690	0.0	96	314912	48.4	
112 tert-Butylbenzene	119	8.830	8.830	0.0	92	287805	51.5	
113 1,2,4-Trimethylbenzene	105	8.867	8.861	0.006	97	370631	48.8	
114 sec-Butylbenzene	105	8.952	8.946	0.006	99	479030	51.7	
115 4-Isopropyltoluene	119	9.026	9.026	0.0	94	388751	50.4	
116 1,3-Dichlorobenzene	146	9.044	9.044	0.0	93	184156	48.7	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	94	95321	50.0	
118 1,4-Dichlorobenzene	146	9.099	9.093	0.006	90	187741	47.0	
119 Benzyl chloride	91	9.172	9.172	0.0	98	207651	53.1	
120 2,3-Dihydroindene	117	9.221	9.221	0.0	83	425014	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	89	267304	NC	
122 n-Butylbenzene	92	9.251	9.251	0.0	83	233677	51.7	
123 1,2-Dichlorobenzene	146	9.312	9.312	0.0	94	179642	49.4	
124 1,2,4,5-Tetramethylbenzene	119	9.702	9.702	0.0	97	356077	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.794	9.794	0.0	96	14234	46.4	
126 1,3,5-Trichlorobenzene	180	9.891	9.885	0.006	96	128396	NC	
127 Camphor	95	10.281	10.275	0.006	92	30944	211.1	
128 1,2,4-Trichlorobenzene	180	10.342	10.342	0.0	92	88179	45.3	
129 Hexachlorobutadiene	225	10.416	10.415	0.001	91	46431	49.4	
130 Naphthalene	128	10.556	10.550	0.006	99	163833	50.0	
133 1,2,3-Trichlorobenzene	180	10.757	10.757	0.0	92	53850	47.9	
S 136 1,2-Dichloroethene, Total	100				0		97.4	
S 137 Xylenes, Total	100				0		97.5	
S 147 Total BTEX	1				0		244.8	

QC Flag Legend

Review Flags
M - Manually Integrated

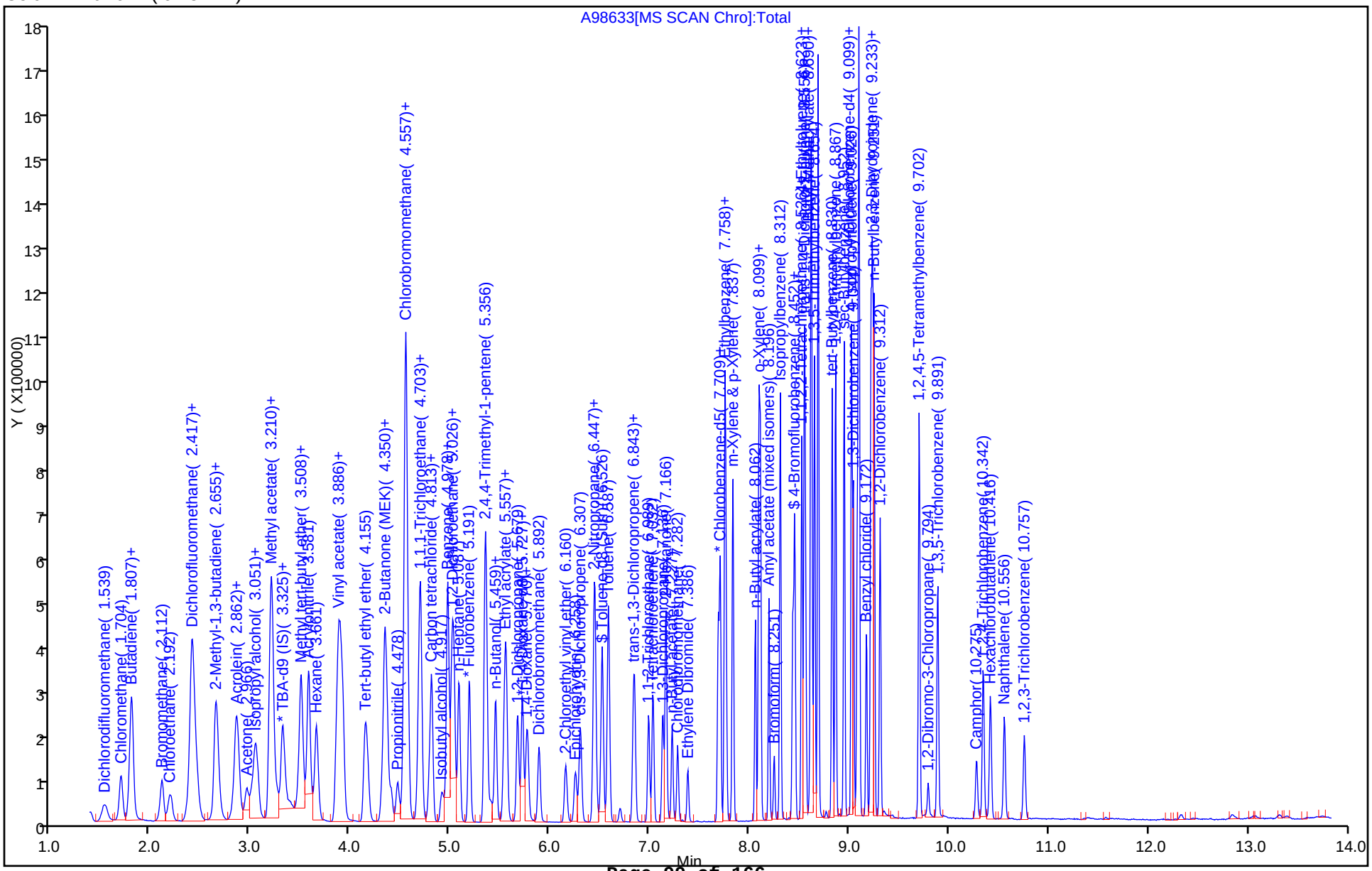
Report Date: 28-Jan-2014 12:21:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98633.D

Injection Date:	27-Jan-2014 04:55:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD50	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

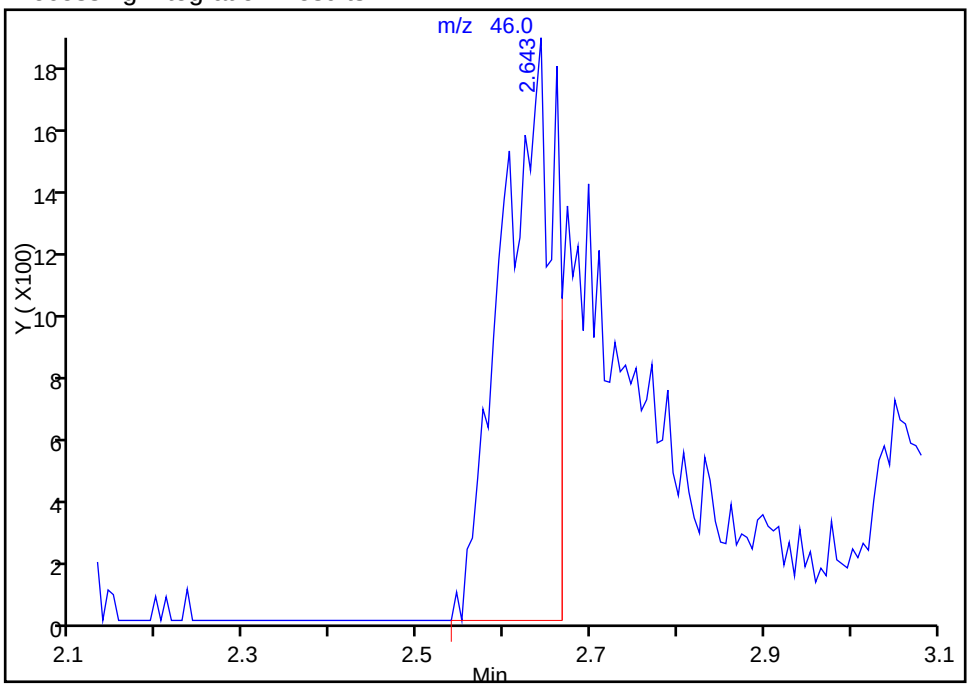
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98633.D
Injection Date: 27-Jan-2014 04:55:30 Instrument ID: CVOAMS1
Lims ID: STD50 Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

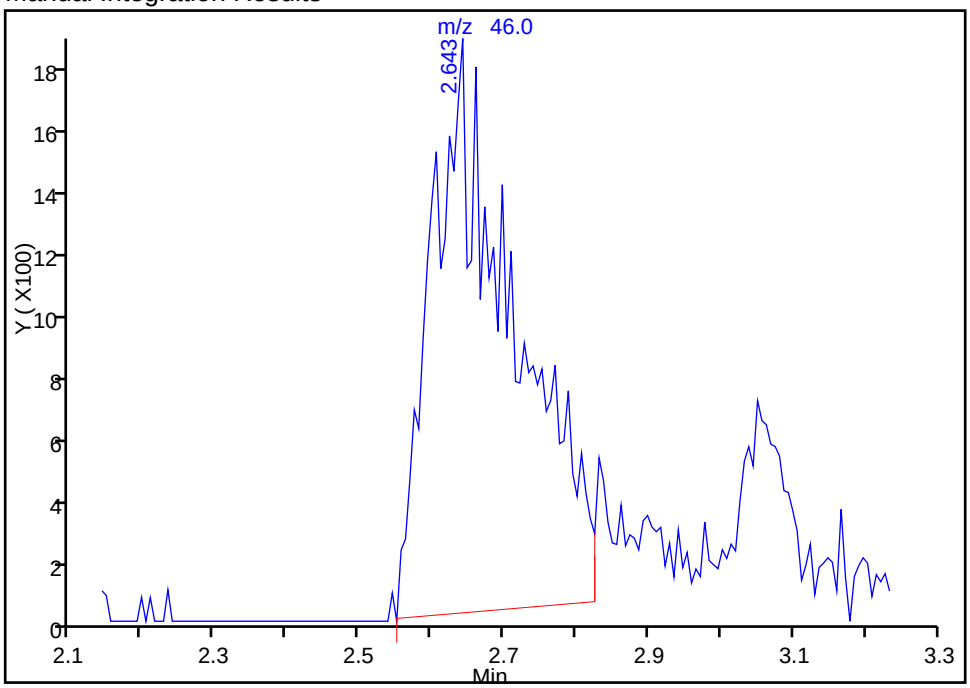
Processing Integration Results

RT: 2.64
Response: 7794
Amount: 1791.0844



Manual Integration Results

RT: 2.64
Response: 14558
Amount: 2937.2762



Reviewer: baronm, 27-Jan-2014 17:55:57
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Report Date: 28-Jan-2014 12:22:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98634.D
Lims ID: STD200 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Jan-2014 05:15:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0009219-010
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 28-Jan-2014 12:22:01 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: martineze Date: 27-Jan-2014 08:29:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.545	1.551	-0.006	89	436756	183.9	
4 Chloromethane	50	1.716	1.704	0.012	89	684304	177.1	
6 Vinyl chloride	62	1.814	1.814	0.0	82	661011	183.1	
5 Butadiene	54	1.820	1.814	0.006	76	616082	NC	
9 Bromomethane	94	2.125	2.118	0.006	99	360988	183.4	
10 Chloroethane	64	2.204	2.198	0.006	98	381803	178.1	
12 Dichlorofluoromethane	67	2.411	2.405	0.006	90	905190	NC	
13 Trichlorofluoromethane	101	2.423	2.423	0.0	84	602108	187.2	
11 Pentane	72	2.435	2.435	0.0	97	173593	392.8	
16 Ethanol	46	2.649	2.643	0.006	75	50198	10267	
14 Ethyl ether	59	2.649	2.655	-0.006	91	337444	178.1	
15 2-Methyl-1,3-butadiene	67	2.673	2.667	0.006	96	632039	185.6	
17 Acrolein	56	2.832	2.832	0.0	24	48619	202.8	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.862	2.856	0.006	93	385030	197.0	
20 1,1-Dichloroethene	96	2.874	2.868	0.006	87	359707	189.1	
21 Acetone	43	2.972	2.966	0.006	88	710635	828.7	
22 Iodomethane	142	3.033	3.033	0.0	97	545042	207.1	
23 Carbon disulfide	76	3.063	3.063	0.0	99	1409435	191.5	
138 Isopropyl alcohol	45	3.082	3.075	0.007	1	153414	1910.3	
141 3-Chloro-1-propene	76	3.197	3.197	0.0	0	243014	191.9	
25 Cyclopentene	67	3.216	3.222	-0.006	78	1222025	NC	
24 Methyl acetate	43	3.222	3.222	0.0	99	1543850	923.1	
26 Acetonitrile	41	3.277	3.271	0.006	59	516304	1992.5	
27 Methylene Chloride	84	3.332	3.325	0.007	88	419357	186.4	
* 28 TBA-d9 (IS)	65	3.362	3.368	-0.006	50	112709	1000.0	
29 2-Methyl-2-propanol	59	3.441	3.435	0.006	53	320279	2037.4	
31 trans-1,2-Dichloroethene	96	3.514	3.514	0.0	90	371609	184.5	
30 Methyl tert-butyl ether	73	3.514	3.514	0.0	98	1154157	188.8	
32 Acrylonitrile	53	3.588	3.588	0.0	95	1569591	1943.7	
33 Hexane	43	3.661	3.667	-0.006	91	380878	191.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Isopropyl ether	45	3.874	3.868	0.006	95	1429192	185.5	
35 1,1-Dichloroethane	63	3.892	3.886	0.006	90	775082	187.7	
36 Vinyl acetate	43	3.905	3.905	0.0	100	2117473	375.2	
37 2-Chloro-1,3-butadiene	88	3.929	3.929	0.0	78	357832	NC	
39 Tert-butyl ethyl ether	59	4.161	4.161	0.0	88	1277607	NC	
40 2,2-Dichloropropane	77	4.344	4.337	0.007	79	599551	181.7	
41 cis-1,2-Dichloroethene	96	4.350	4.344	0.006	88	415205	185.1	
42 Ethyl acetate	70	4.374	4.368	0.006	97	76094	402.0	
43 2-Butanone (MEK)	72	4.368	4.368	0.0	96	225123	1103.1	
44 Methyl acrylate	55	4.417	4.417	0.0	95	348851	NC	
45 Propionitrile	54	4.478	4.478	0.0	96	542850	NC	
47 Chlorobromomethane	128	4.539	4.539	0.0	94	177829	183.3	
46 Tetrahydrofuran	42	4.551	4.551	0.0	94	302155	424.6	
48 Methacrylonitrile	67	4.563	4.557	0.006	91	1708939	NC	
49 Chloroform	83	4.581	4.581	0.0	85	658728	188.5	
50 Cyclohexane	56	4.703	4.697	0.006	92	814125	199.4	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.709	0.0	26	75643	49.4	
51 1,1,1-Trichloroethane	97	4.709	4.709	0.0	91	551680	191.2	
53 Carbon tetrachloride	117	4.807	4.801	0.006	88	453443	190.9	
54 1,1-Dichloropropene	75	4.819	4.819	0.0	95	507812	193.4	
57 Isobutyl alcohol	43	4.923	4.923	0.0	94	286813	NC	
55 Benzene	78	4.978	4.978	0.0	96	1627490	185.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.984	0.0	64	94358	50.0	
58 Isopropyl acetate	43	5.020	5.020	0.0	93	1098425	193.1	
59 Tert-amyl methyl ether	73	5.032	5.026	0.006	89	1123018	NC	
60 1,2-Dichloroethane	62	5.045	5.045	0.0	89	485501	192.1	
61 n-Heptane	57	5.093	5.093	0.0	90	322041	205.3	
* 62 Fluorobenzene	96	5.197	5.197	0.0	98	300386	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.362	5.356	0.006	97	2637840	NC	
140 n-Butanol	56	5.410	5.410	0.0	4	198415	6250.0	
64 Trichloroethene	95	5.459	5.459	0.0	93	374257	198.8	
65 Ethyl acrylate	55	5.551	5.544	0.007	97	1075252	202.3	
66 Methylcyclohexane	83	5.563	5.563	0.0	95	727939	203.4	
67 1,2-Dichloropropane	63	5.679	5.679	0.0	94	431696	191.0	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	87	13727	1000.0	
68 Methyl methacrylate	100	5.727	5.727	0.0	90	163252	394.2	
70 n-Propyl acetate	43	5.770	5.764	0.006	81	505819	194.8	
71 1,4-Dioxane	88	5.782	5.782	0.0	19	47324	3682.5	
72 Dibromomethane	93	5.782	5.782	0.0	93	219181	190.9	
73 Dichlorobromomethane	83	5.892	5.892	0.0	96	506074	198.1	
74 2-Chloroethyl vinyl ether	63	6.160	6.160	0.0	82	184088	202.0	
76 Epichlorohydrin	57	6.258	6.258	0.0	98	577978	3936.4	
77 cis-1,3-Dichloropropene	75	6.313	6.307	0.006	86	629257	201.5	
75 2-Nitropropane	41	6.447	6.447	0.0	68	403367	NC	
78 4-Methyl-2-pentanone (MIBK)	43	6.453	6.447	0.006	96	1944283	968.5	
$ 79 Toluene-d8 (Surr)	98	6.526	6.526	0.0	98	305027	48.7	
80 Toluene	91	6.587	6.587	0.0	93	1593960	189.8	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	95	500856	205.3	
82 Ethyl methacrylate	69	6.855	6.855	0.0	88	515515	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	93	274094	183.4	
84 Tetrachloroethene	166	7.038	7.038	0.0	83	317235	191.7	
85 1,3-Dichloropropane	76	7.136	7.136	0.0	92	556177	192.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.166	7.166	0.0	96	1180478	933.8	
87 n-Butyl acetate	73	7.227	7.227	0.0	99	95265	193.1	
88 Chlorodibromomethane	129	7.282	7.282	0.0	97	313297	198.8	
89 Ethylene Dibromide	107	7.386	7.386	0.0	98	279372	191.1	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	87	196255	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	92	947422	191.4	
92 Ethylbenzene	106	7.758	7.757	0.001	99	548189	187.9	
93 1,1,1,2-Tetrachloroethane	131	7.770	7.764	0.006	87	353234	192.7	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	646077	185.1	
95 n-Butyl acrylate	73	8.062	8.062	0.0	97	312457	189.5	
96 o-Xylene	106	8.099	8.099	0.0	88	684073	185.3	
97 Styrene	104	8.111	8.111	0.0	92	1132891	188.6	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	90	746481	199.0	
99 Bromoform	173	8.251	8.251	0.0	95	196694	193.0	
100 Isopropylbenzene	105	8.312	8.312	0.0	96	1841115	193.3	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	80	77723	49.6	
102 Camphene	41	8.453	8.452	0.001	96	152280	181.6	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.526	0.0	87	461283	192.1	
104 Bromobenzene	156	8.526	8.526	0.0	94	379484	187.1	
105 N-Propylbenzene	91	8.550	8.550	0.0	97	2366935	198.0	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	72	117135	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	90	114075	189.3	
107 4-Ethyltoluene	105	8.617	8.617	0.0	92	1933209	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	95	1602361	197.6	
109 1,3,5-Trimethylbenzene	105	8.654	8.654	0.0	78	1552696	199.0	
110 Butyl Methacrylate	87	8.690	8.690	0.0	69	660141	207.2	
111 4-Chlorotoluene	91	8.690	8.690	0.0	96	1363716	194.5	
112 tert-Butylbenzene	119	8.831	8.830	0.001	93	1245895	207.0	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	97	1598420	195.2	
114 sec-Butylbenzene	105	8.946	8.946	0.0	99	2042179	204.8	
115 4-Isopropyltoluene	119	9.026	9.026	0.0	95	1687399	203.1	
116 1,3-Dichlorobenzene	146	9.038	9.044	-0.006	92	774559	190.3	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	94	102649	50.0	
118 1,4-Dichlorobenzene	146	9.093	9.093	0.0	91	804241	186.9	
119 Benzyl chloride	91	9.172	9.172	0.0	98	868928	206.5	
120 2,3-Dihydroindene	117	9.215	9.221	-0.006	90	1766245	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	90	1092539	NC	
122 n-Butylbenzene	92	9.245	9.251	-0.006	97	982829	202.0	
123 1,2-Dichlorobenzene	146	9.306	9.312	-0.006	93	733794	187.2	
124 1,2,4,5-Tetramethylbenzene	119	9.696	9.702	-0.006	96	1471895	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.788	9.794	-0.006	98	61445	186.1	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	96	515473	NC	
127 Camphor	95	10.275	10.275	0.0	93	143314	907.8	
128 1,2,4-Trichlorobenzene	180	10.342	10.342	0.0	89	383522	183.0	
129 Hexachlorobutadiene	225	10.416	10.415	0.001	94	196089	193.6	
130 Naphthalene	128	10.550	10.550	0.0	99	724351	199.9	
133 1,2,3-Trichlorobenzene	180	10.751	10.757	-0.006	93	243889	200.9	
S 136 1,2-Dichloroethene, Total	100				0		369.6	
S 137 Xylenes, Total	100				0		370.4	
S 147 Total BTEX	1				0		933.4	

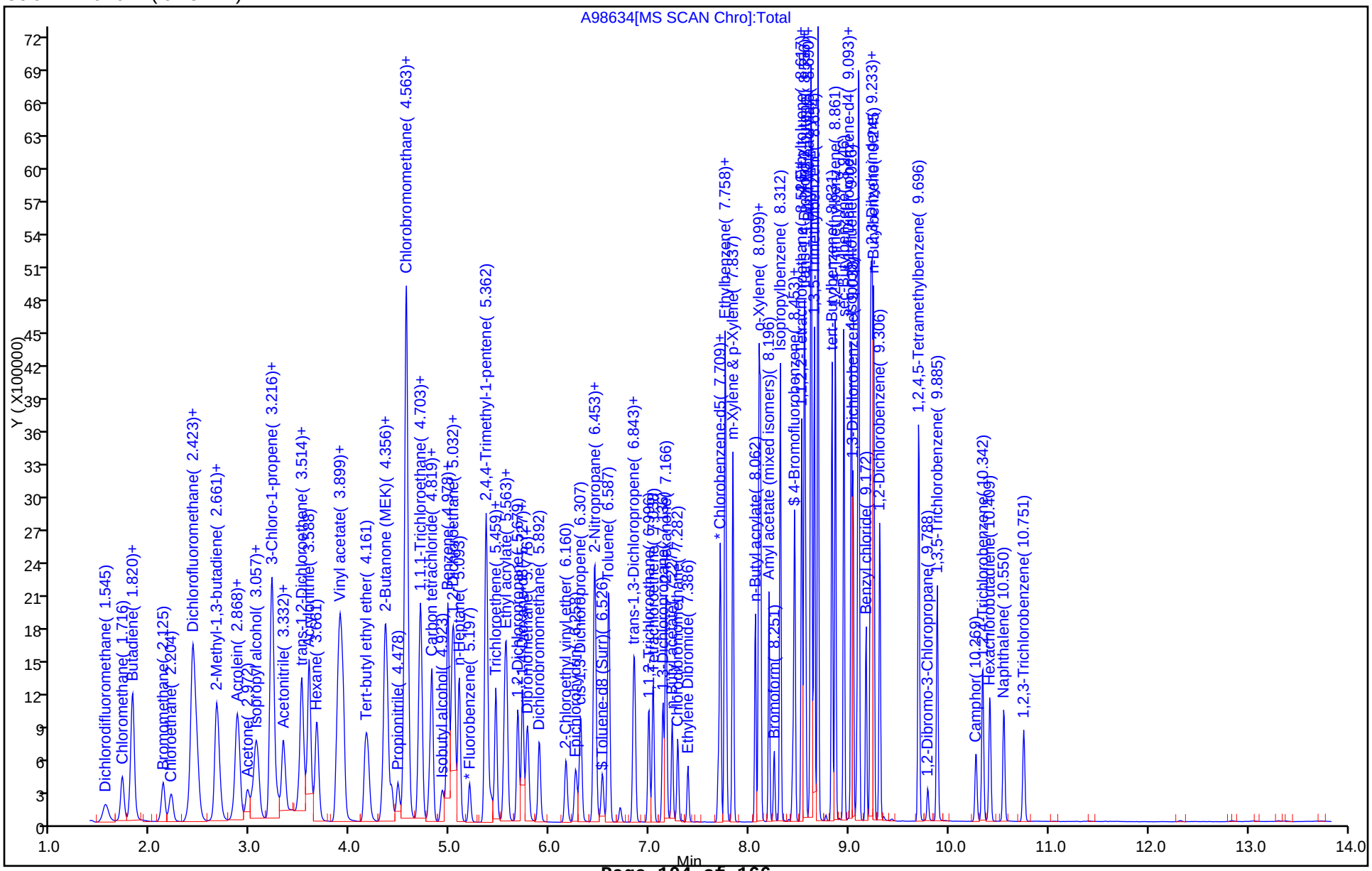
Report Date: 28-Jan-2014 12:22:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98634.D

Injection Date:	27-Jan-2014 05:15:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD200	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Report Date: 28-Jan-2014 12:22:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D
Lims ID: STD500 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Jan-2014 05:35:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0009219-011
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 28-Jan-2014 12:22:04 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: martineze Date: 27-Jan-2014 08:31:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.539	1.551	-0.012	89	1142299	514.6	
4 Chloromethane	50	1.710	1.704	0.006	89	1840546	509.9	
6 Vinyl chloride	62	1.814	1.814	0.0	75	1779664	527.5	
5 Butadiene	54	1.814	1.814	0.0	74	1654795	NC	
9 Bromomethane	94	2.118	2.118	0.0	98	955572	519.6	
10 Chloroethane	64	2.204	2.198	0.006	97	1000121	499.3	
12 Dichlorofluoromethane	67	2.405	2.405	0.0	90	2428519	NC	
13 Trichlorofluoromethane	101	2.417	2.423	-0.006	84	1609442	535.4	
11 Pentane	72	2.448	2.435	0.013	97	456324	1104.9	
16 Ethanol	46	2.643	2.643	0.0	75	107187	26082	
14 Ethyl ether	59	2.643	2.655	-0.012	92	881262	497.7	
15 2-Methyl-1,3-butadiene	67	2.667	2.667	0.0	96	1651468	519.1	
17 Acrolein	56	2.832	2.832	0.0	15	101168	502.1	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.856	2.856	0.0	93	1026766	562.2	
20 1,1-Dichloroethene	96	2.874	2.868	0.006	86	960370	540.2	
21 Acetone	43	2.966	2.966	0.0	87	1851354	2310.3	
22 Iodomethane	142	3.033	3.033	0.0	97	1453873	657.2	
23 Carbon disulfide	76	3.063	3.063	0.0	99	3793433	551.5	
138 Isopropyl alcohol	45	3.069	3.075	-0.006	2	333857	4945.9	
141 3-Chloro-1-propene	76	3.197	3.197	0.0	0	669374	565.8	
25 Cyclopentene	67	3.216	3.222	-0.006	78	3272423	NC	
24 Methyl acetate	43	3.216	3.222	-0.006	98	4153002	2657.4	
26 Acetonitrile	41	3.271	3.271	0.0	50	1207588	5544.4	
27 Methylene Chloride	84	3.332	3.325	0.007	88	1085373	516.3	
* 28 TBA-d9 (IS)	65	3.362	3.368	-0.006	4	94736	1000.0	
29 2-Methyl-2-propanol	59	3.423	3.435	-0.012	35	763311	5776.9	
31 trans-1,2-Dichloroethene	96	3.508	3.514	-0.006	90	962706	511.4	
30 Methyl tert-butyl ether	73	3.514	3.514	0.0	95	3060274	535.6	
32 Acrylonitrile	53	3.582	3.588	-0.006	93	4109742	5446.1	
33 Hexane	43	3.661	3.667	-0.006	91	981137	527.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Isopropyl ether	45	3.880	3.868	0.012	88	3974698	552.0	
35 1,1-Dichloroethane	63	3.886	3.886	0.0	89	2108044	546.4	
36 Vinyl acetate	43	3.905	3.905	0.0	100	5889941	1116.8	
37 2-Chloro-1,3-butadiene	88	3.929	3.929	0.0	89	959157	NC	
39 Tert-butyl ethyl ether	59	4.161	4.161	0.0	88	3509091	NC	
40 2,2-Dichloropropane	77	4.344	4.337	0.007	76	1645309	533.7	
41 cis-1,2-Dichloroethene	96	4.344	4.344	0.0	86	1108756	529.1	
42 Ethyl acetate	70	4.368	4.368	0.0	96	208390	1178.2	
43 2-Butanone (MEK)	72	4.368	4.368	0.0	96	613745	3577.8	
44 Methyl acrylate	55	4.417	4.417	0.0	94	937223	NC	
45 Propionitrile	54	4.478	4.478	0.0	97	1387232	NC	
47 Chlorobromomethane	128	4.539	4.539	0.0	95	466813	514.8	
46 Tetrahydrofuran	42	4.551	4.551	0.0	91	805518	1346.5	
48 Methacrylonitrile	67	4.563	4.557	0.006	91	4729714	NC	
49 Chloroform	83	4.581	4.581	0.0	85	1758447	538.5	
50 Cyclohexane	56	4.703	4.697	0.006	92	2208988	579.1	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.709	-0.006	66	81265	56.8	
51 1,1,1-Trichloroethane	97	4.709	4.709	0.0	92	1467493	544.2	
53 Carbon tetrachloride	117	4.807	4.801	0.006	88	1206738	543.7	
54 1,1-Dichloropropene	75	4.819	4.819	0.0	96	1322777	539.1	
57 Isobutyl alcohol	43	4.923	4.923	0.0	94	702116	NC	
55 Benzene	78	4.978	4.978	0.0	95	4276624	496.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.984	0.0	62	101212	57.4	
58 Isopropyl acetate	43	5.020	5.020	0.0	89	3009477	566.1	
59 Tert-amyl methyl ether	73	5.032	5.026	0.006	89	3095110	NC	
60 1,2-Dichloroethane	62	5.045	5.045	0.0	80	1294469	548.2	
61 n-Heptane	57	5.087	5.093	-0.006	91	815604	556.4	
* 62 Fluorobenzene	96	5.197	5.197	0.0	98	280701	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.362	5.356	0.006	97	7362957	NC	
140 n-Butanol	56	5.410	5.410	0.0	30	430984	16151	
64 Trichloroethene	95	5.459	5.459	0.0	93	988233	561.7	
65 Ethyl acrylate	55	5.551	5.544	0.007	96	2954138	594.9	
66 Methylcyclohexane	83	5.563	5.563	0.0	94	1933070	578.0	
67 1,2-Dichloropropane	63	5.679	5.679	0.0	94	1150967	544.9	
* 69 1,4-Dioxane-d8	96	5.685	5.727	-0.042	48	9316	1000.0	
68 Methyl methacrylate	100	5.727	5.727	0.0	82	442601	1143.7	
70 n-Propyl acetate	43	5.770	5.764	0.006	81	1385526	571.1	
71 1,4-Dioxane	88	5.776	5.782	-0.006	11	113788	13047	
72 Dibromomethane	93	5.782	5.782	0.0	94	578567	539.2	
73 Dichlorobromomethane	83	5.892	5.892	0.0	96	1350824	565.9	
74 2-Chloroethyl vinyl ether	63	6.160	6.160	0.0	93	518431	608.7	
76 Epichlorohydrin	57	6.264	6.258	0.006	97	1589271	11036	
77 cis-1,3-Dichloropropene	75	6.313	6.307	0.006	87	1727141	563.8	
75 2-Nitropropane	41	6.453	6.447	0.006	68	1096984	NC	
78 4-Methyl-2-pentanone (MIBK)	43	6.453	6.447	0.006	96	5350508	2717.2	
$ 79 Toluene-d8 (Surr)	98	6.526	6.526	0.0	96	331178	54.0	
80 Toluene	91	6.593	6.587	0.006	92	4400923	534.3	
81 trans-1,3-Dichloropropene	75	6.843	6.837	0.006	95	1402982	586.2	
82 Ethyl methacrylate	69	6.855	6.855	0.0	87	1412829	NC	
83 1,1,2-Trichloroethane	83	6.995	6.989	0.006	94	745492	508.5	
84 Tetrachloroethene	166	7.038	7.038	0.0	84	866550	534.0	
85 1,3-Dichloropropane	76	7.136	7.136	0.0	92	1514156	534.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.166	7.166	0.0	96	3370681	2718.4	
87 n-Butyl acetate	73	7.227	7.227	0.0	99	252995	522.8	
88 Chlorodibromomethane	129	7.282	7.282	0.0	97	865196	559.7	
89 Ethylene Dibromide	107	7.386	7.386	0.0	98	757083	528.0	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	86	192494	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	92	2676943	551.4	
92 Ethylbenzene	106	7.758	7.757	0.001	99	1577924	551.4	
93 1,1,1,2-Tetrachloroethane	131	7.770	7.764	0.006	87	1004449	558.5	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	1814286	530.0	
95 n-Butyl acrylate	73	8.062	8.062	0.0	97	841203	520.2	
96 o-Xylene	106	8.099	8.099	0.0	89	1942013	536.3	
97 Styrene	104	8.111	8.111	0.0	93	3270136	555.0	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	90	2047202	578.9	
99 Bromoform	173	8.251	8.251	0.0	95	534807	534.9	
100 Isopropylbenzene	105	8.312	8.312	0.0	96	5054512	540.9	
$ 101 4-Bromofluorobenzene	174	8.440	8.434	0.006	76	85000	57.5	
102 Camphene	41	8.459	8.452	0.007	96	406036	493.8	
103 1,1,2,2-Tetrachloroethane	83	8.532	8.526	0.006	89	1283521	567.0	
104 Bromobenzene	156	8.532	8.526	0.006	96	1067836	558.5	
105 N-Propylbenzene	91	8.556	8.550	0.006	97	6315679	560.6	
139 trans-1,4-Dichloro-2-butene	53	8.568	8.562	0.006	65	332513	NC	
106 1,2,3-Trichloropropane	110	8.568	8.562	0.006	89	307414	541.4	
107 4-Ethyltoluene	105	8.623	8.617	0.006	89	5392767	NC	
108 2-Chlorotoluene	91	8.629	8.623	0.006	95	4487204	587.1	
109 1,3,5-Trimethylbenzene	105	8.660	8.654	0.006	82	4207886	572.2	
110 Butyl Methacrylate	87	8.696	8.690	0.006	68	1844460	614.1	
111 4-Chlorotoluene	91	8.696	8.690	0.006	97	3796135	574.3	
112 tert-Butylbenzene	119	8.837	8.830	0.007	93	3425764	603.9	
113 1,2,4-Trimethylbenzene	105	8.867	8.861	0.006	97	4320596	559.9	
114 sec-Butylbenzene	105	8.959	8.946	0.013	99	5344810	568.7	
115 4-Isopropyltoluene	119	9.032	9.026	0.006	95	4541418	580.0	
116 1,3-Dichlorobenzene	146	9.050	9.044	0.006	95	2091605	545.3	
* 117 1,4-Dichlorobenzene-d4	152	9.087	9.080	0.007	64	96747	50.0	
118 1,4-Dichlorobenzene	146	9.099	9.093	0.006	92	2260990	557.5	
119 Benzyl chloride	91	9.178	9.172	0.006	98	2295317	578.7	
120 2,3-Dihydroindene	117	9.227	9.221	0.006	92	4780826	NC	
121 p-Diethylbenzene	119	9.239	9.233	0.006	90	2890672	NC	
122 n-Butylbenzene	92	9.257	9.251	0.006	98	2493579	543.7	
123 1,2-Dichlorobenzene	146	9.318	9.312	0.006	94	1895666	513.2	
124 1,2,4,5-Tetramethylbenzene	119	9.708	9.702	0.006	96	3669268	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.800	9.794	0.006	97	162139	521.0	
126 1,3,5-Trichlorobenzene	180	9.897	9.885	0.012	96	1237891	NC	
127 Camphor	95	10.281	10.275	0.006	93	426627	2867.1	
128 1,2,4-Trichlorobenzene	180	10.355	10.342	0.013	92	910864	461.2	
129 Hexachlorobutadiene	225	10.422	10.415	0.007	92	468418	490.8	
130 Naphthalene	128	10.562	10.550	0.012	99	1854607	500.0	
133 1,2,3-Trichlorobenzene	180	10.763	10.757	0.006	93	577468	499.9	
S 136 1,2-Dichloroethene, Total	100				0		1040.4	
S 137 Xylenes, Total	100				0		1066.3	
S 147 Total BTEX	1				0		2648.3	

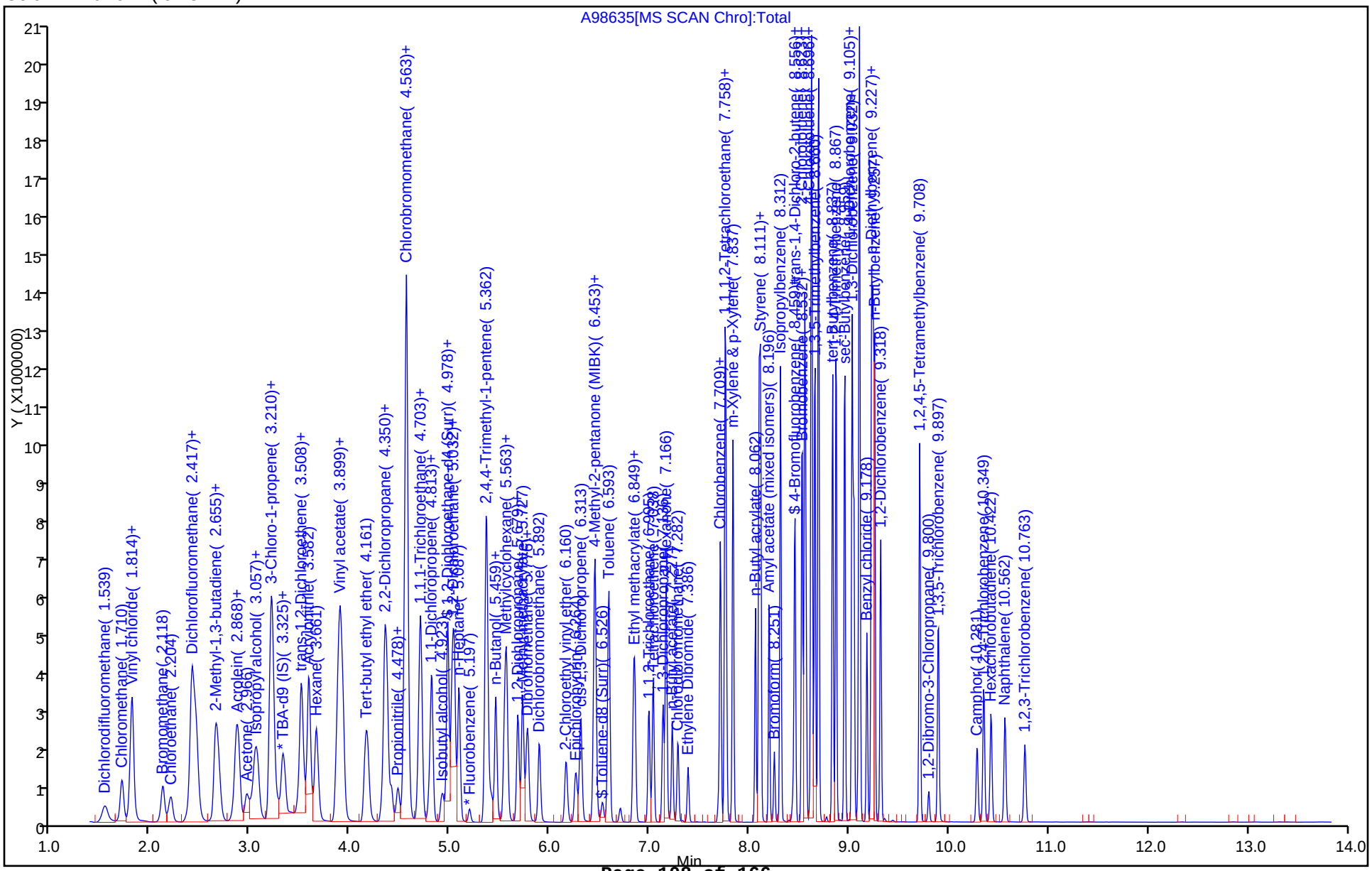
Report Date: 28-Jan-2014 12:22:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Injection Date:	27-Jan-2014 05:35:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD500	Lab Sample ID:		Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab Sample ID: CCVIS 460-205851/3 Calibration Date: 02/04/2014 06:46

Instrument ID: CVOAMS1 Calib Start Date: 01/27/2014 02:53

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/27/2014 05:35

Lab File ID: A99007.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
Dichlorodifluoromethane	Ave	0.3954	0.5760		29.1	20.0	45.7	50.0
Chloromethane	Ave	0.6430	0.9443	0.1000	29.4	20.0	46.9	104.0
Vinyl chloride	Ave	0.6010	0.8491		28.3	20.0	41.3	96.0
Bromomethane	Ave	0.3276	0.4285		26.2	20.0	30.8	86.0
Chloroethane	Ave	0.3568	0.4817		27.0	20.0	35.0	62.0
Trichlorofluoromethane	Ave	0.5354	0.7521		28.1	20.0	40.5	52.0
n-Pentane	Ave	0.0736	0.0911		49.5	40.0	23.9	50.0
Ethyl ether	Ave	0.3154	0.3624		23.0	20.0	14.9	50.0
Ethanol	Ave	0.0434	0.0272		627	1000	-37.3	50.0
Isoprene	Ave	0.5667	0.6665		23.5	20.0	17.6	50.0
Acrolein	Ave	2.127	1.718		32.3	40.0	-19.2	99.0
Freon TF	Ave	0.3253	0.4041		24.8	20.0	24.2	50.0
1,1-Dichloroethene	Ave	0.3167	0.3715		23.5	20.0	17.3	49.5
Acetone	Ave	0.1427	0.1773		124	100	24.2	50.0
Iodomethane	Ave	23.35	19.21		16.5	20.0	-17.7	50.0
Carbon disulfide	Ave	1.225	1.529		24.9	20.0	24.7	50.0
Isopropanol	Ave	0.7125	0.5630		158	200	-21.0	50.0
Allyl chloride	Ave	0.2107	0.2445		23.2	20.0	16.0	50.0
Methyl acetate	Ave	0.2784	0.3286		118	100	18.0	50.0
Acetonitrile	Ave	2.299	1.517		132	200	-34.0	50.0
Methylene Chloride	Ave	0.3745	0.4102		21.9	20.0	9.5	39.5
TBA	Ave	1.395	0.8082		116	200	-42.1	50.0
trans-1,2-Dichloroethene	Ave	0.3353	0.3731		22.3	20.0	11.3	30.5
MTBE	Ave	1.018	1.132		22.2	20.0	11.2	50.0
Acrylonitrile	Ave	0.1344	0.1658		247	200	23.3	50.0
Hexane	Ave	0.3316	0.4895		29.5	20.0	47.6	50.0
DIPE	Ave	1.283	1.469		22.9	20.0	14.6	50.0
1,1-Dichloroethane	Ave	0.6872	0.8069	0.1000	23.5	20.0	17.4	27.5
Vinyl acetate	Ave	0.9394	1.093		46.5	40.0	16.3	50.0
2,2-Dichloropropane	Ave	0.5491	0.6072		22.1	20.0	10.6	50.0
cis-1,2-Dichloroethene	Ave	0.3733	0.3967		21.3	20.0	6.3	50.0
2-Butanone	Ave	1.811	1.427		78.8	100	-21.2	50.0
Ethyl acetate	Ave	0.0315	0.0288		36.5	40.0	-8.8	50.0
Bromochloromethane	Ave	0.1615	0.1622		20.1	20.0	0.5	50.0
Tetrahydrofuran	Ave	6.315	5.450		34.5	40.0	-13.7	50.0
Chloroform	Ave	0.5816	0.6629		22.8	20.0	14.0	32.5
Cyclohexane	Ave	0.6794	0.8691		25.6	20.0	27.9	50.0
1,1,1-Trichloroethane	Ave	0.4803	0.5550		23.1	20.0	15.5	25.0
Carbon tetrachloride	Ave	0.3954	0.4416		22.3	20.0	11.7	27.0
1,1-Dichloropropene	Ave	0.4371	0.4911		22.5	20.0	12.4	50.0
Benzene	Ave	2.238	2.368		21.2	20.0	5.8	36.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab Sample ID: CCVIS 460-205851/3 Calibration Date: 02/04/2014 06:46

Instrument ID: CVOAMS1 Calib Start Date: 01/27/2014 02:53

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/27/2014 05:35

Lab File ID: A99007.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
Isopropyl acetate	Ave	0.9469	1.046		22.1	20.0	10.5	50.0
1,2-Dichloroethane	Ave	0.4206	0.4670		22.2	20.0	11.0	32.0
n-Heptane	Ave	0.2611	0.3806		29.1	20.0	45.7	50.0
n-Butanol	Ave	0.2817	0.1837		326	500	-34.8	50.0
Trichloroethene	Ave	0.3134	0.3518		22.5	20.0	12.3	33.5
Ethyl acrylate	Ave	0.8846	1.063		24.0	20.0	20.1	50.0
Methylcyclohexane	Ave	0.5958	0.7395		24.8	20.0	24.1	50.0
1,2-Dichloropropane	Ave	0.3762	0.4308		22.9	20.0	14.5	66.0
Methyl methacrylate	Ave	0.0689	0.0632		36.7	40.0	-8.3	50.0
1,4-Dioxane	Ave	0.9362	0.7785		333	400	-16.8	50.0
Propyl acetate	Ave	0.4322	0.4580		21.2	20.0	6.0	50.0
Dibromomethane	Ave	0.1911	0.2046		21.4	20.0	7.0	50.0
Bromodichloromethane	Ave	0.4252	0.4628		21.8	20.0	8.8	34.5
2-Chloroethyl vinyl ether	Ave	0.1517	0.1546		20.4	20.0	1.9	124.0
Epichlorohydrin	Ave	0.0374	0.0415		444	400	10.9	50.0
cis-1,3-Dichloropropene	Ave	0.7958	0.8256		20.8	20.0	3.8	76.0
MIBK	Ave	0.5115	0.5994		117	100	17.2	50.0
Toluene	Ave	2.139	2.230		20.8	20.0	4.2	25.5
trans-1,3-Dichloropropene	Ave	0.6216	0.6520		21.0	20.0	4.9	50.0
1,1,2-Trichloroethane	Ave	0.3808	0.3854		20.2	20.0	1.2	29.0
Tetrachloroethene	Ave	0.4215	0.4243		20.1	20.0	0.6	26.5
1,3-Dichloropropane	Ave	0.7356	0.7781		21.2	20.0	5.8	50.0
2-Hexanone	Ave	0.3221	0.3825		119	100	18.8	50.0
Butyl acetate	Ave	0.1257	0.1109		17.6	20.0	-11.8	50.0
Dibromochloromethane	Ave	0.4016	0.4302		21.4	20.0	7.1	32.5
1,2-Dibromoethane	Ave	0.3725	0.3979		21.4	20.0	6.8	50.0
Chlorobenzene	Ave	1.261	1.248	0.3000	19.8	20.0	-1.1	34.0
Ethylbenzene	Ave	0.7433	0.7622		20.5	20.0	2.5	41.0
1,1,1,2-Tetrachloroethane	Ave	0.4671	0.4836		20.7	20.0	3.5	50.0
m-Xylene & p-Xylene	Ave	0.8892	0.9439		21.2	20.0	6.1	50.0
n-Butyl acrylate	Ave	0.4201	0.3807		18.1	20.0	-9.4	50.0
o-Xylene	Ave	0.9406	0.9422		20.0	20.0	0.2	50.0
Styrene	Ave	1.531	1.559		20.4	20.0	1.9	50.0
Amyl acetate	Ave	1.828	1.850		20.2	20.0	1.2	50.0
Bromoform	Ave	0.2597	0.2691	0.1000	20.7	20.0	3.6	29.0
Isopropylbenzene	Ave	2.427	2.573		21.2	20.0	6.0	50.0
Camphene, Total	Ave	0.2136	0.2422		22.7	20.0	13.4	50.0
1,1,2,2-Tetrachloroethane	Ave	1.170	1.221	0.3000	20.9	20.0	4.4	39.5
Bromobenzene	Ave	0.9882	0.9240		18.7	20.0	-6.5	50.0
N-Propylbenzene	Ave	5.822	5.913		20.3	20.0	1.6	50.0
1,2,3-Trichloropropane	Ave	0.2935	0.3029		20.6	20.0	3.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Lab Sample ID: CCVIS 460-205851/3 Calibration Date: 02/04/2014 06:46

Instrument ID: CVOAMS1 Calib Start Date: 01/27/2014 02:53

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/27/2014 05:35

Lab File ID: A99007.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
2-Chlorotoluene	Ave	3.950	3.894		19.7	20.0	-1.4	50.0
1,3,5-Trimethylbenzene	Ave	3.800	3.769		19.8	20.0	-0.8	50.0
4-Chlorotoluene	Ave	3.416	3.427		20.1	20.0	0.3	50.0
Butyl Methacrylate	Ave	1.552	1.384		17.8	20.0	-10.8	50.0
tert-Butylbenzene	Ave	2.932	2.822		19.2	20.0	-3.8	50.0
1,2,4-Trimethylbenzene	Ave	3.988	3.935		19.7	20.0	-1.3	50.0
sec-Butylbenzene	Ave	4.857	5.027		20.7	20.0	3.5	50.0
p-Isopropyltoluene	Ave	4.047	3.974		19.6	20.0	-1.8	50.0
1,3-Dichlorobenzene	Ave	1.982	1.966		19.8	20.0	-0.8	27.0
1,4-Dichlorobenzene	Ave	2.096	2.037		19.4	20.0	-2.8	37.0
Benzyl chloride	Ave	2.050	2.101		20.5	20.0	2.5	50.0
n-Butylbenzene	Ave	2.370	2.559		21.6	20.0	8.0	50.0
1,2-Dichlorobenzene	Ave	1.909	1.971		20.7	20.0	3.3	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.1608	0.1579		19.6	20.0	-1.8	50.0
Camphor	Ave	0.0769	0.0535		69.6	100	-30.4	50.0
1,2,4-Trichlorobenzene	Ave	1.021	0.8896		17.4	20.0	-12.8	50.0
Hexachlorobutadiene	Ave	0.4933	0.5281		21.4	20.0	7.1	50.0
Naphthalene	Qua		2.027		23.1	20.0	15.3	50.0
1,2,3-Trichlorobenzene	Qua		0.5636		19.0	20.0	-5.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2546	0.2996		58.8	50.0	17.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3140	0.3733		59.5	50.0	18.9	
Toluene-d8 (Surr)	Ave	1.594	1.753		55.0	50.0	10.0	
Bromofluorobenzene	Ave	0.7634	0.7938		52.0	50.0	4.0	

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99007.D
Lims ID: CCVIS Lab Sample ID: LCS 460-205455/3-A
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Feb-2014 06:46:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0009480-003
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub13

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 04-Feb-2014 14:14:47 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: delpolitov Date: 04-Feb-2014 14:14:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.545	1.545	0.0	85	44669	29.1	M
4 Chloromethane	50	1.698	1.698	0.0	88	73239	29.4	
6 Vinyl chloride	62	1.807	1.807	0.0	98	65852	28.3	
5 Butadiene	54	1.807	1.807	0.0	77	64692	NC	
9 Bromomethane	94	2.112	2.112	0.0	96	33229	26.2	
10 Chloroethane	64	2.197	2.197	0.0	97	37359	27.0	
12 Dichlorofluoromethane	67	2.399	2.399	0.0	89	89475	NC	
13 Trichlorofluoromethane	101	2.411	2.411	0.0	46	58327	28.1	
11 Pentane	72	2.423	2.423	0.0	97	14135	49.5	
14 Ethyl ether	59	2.636	2.636	0.0	93	28110	23.0	
16 Ethanol	46	2.642	2.642	0.0	70	2953	627.0	
15 2-Methyl-1,3-butadiene	67	2.661	2.661	0.0	97	51693	23.5	
17 Acrolein	56	2.819	2.819	0.0	69	7460	32.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.862	2.862	0.0	74	31341	24.8	
20 1,1-Dichloroethene	96	2.874	2.874	0.0	84	28812	23.5	M
21 Acetone	43	2.966	2.966	0.0	85	68745	124.2	
22 Iodomethane	142	3.020	3.020	0.0	99	41709	16.5	
23 Carbon disulfide	76	3.057	3.057	0.0	99	118546	24.9	
138 Isopropyl alcohol	45	3.063	3.063	0.0	1	12225	158.0	M
141 3-Chloro-1-propene	76	3.191	3.191	0.0	0	18963	23.2	
24 Methyl acetate	43	3.216	3.216	0.0	97	127418	118.0	
25 Cyclopentene	67	3.216	3.216	0.0	78	93671	NC	
26 Acetonitrile	41	3.270	3.270	0.0	57	32930	131.9	
27 Methylene Chloride	84	3.325	3.325	0.0	90	31811	21.9	
* 28 TBA-d9 (IS)	65	3.368	3.368	0.0	90	108570	1000.0	
29 2-Methyl-2-propanol	59	3.429	3.429	0.0	34	17550	115.9	
31 trans-1,2-Dichloroethene	96	3.508	3.508	0.0	86	28939	22.3	
30 Methyl tert-butyl ether	73	3.514	3.514	0.0	95	87795	22.2	
32 Acrylonitrile	53	3.581	3.581	0.0	93	128561	246.6	
33 Hexane	43	3.661	3.661	0.0	92	37964	29.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
38 Allyl alcohol	57	3.947	3.947	0.0	6	5705	NC	
34 Isopropyl ether	45	3.868	3.868	0.0	92	113969	22.9	
35 1,1-Dichloroethane	63	3.880	3.880	0.0	91	62582	23.5	
36 Vinyl acetate	43	3.898	3.898	0.0	100	169496	46.5	
37 2-Chloro-1,3-butadiene	88	3.923	3.923	0.0	87	24790	NC	
39 Tert-butyl ethyl ether	59	4.148	4.148	0.0	87	91685	NC	
40 2,2-Dichloropropane	77	4.325	4.325	0.0	85	47090	22.1	
41 cis-1,2-Dichloroethene	96	4.343	4.343	0.0	84	30767	21.3	
43 2-Butanone (MEK)	72	4.362	4.362	0.0	96	15493	78.8	
42 Ethyl acetate	70	4.362	4.362	0.0	94	4459	36.5	
44 Methyl acrylate	55	4.398	4.398	0.0	88	21257	NC	
45 Propionitrile	54	4.471	4.471	0.0	94	37745	NC	
47 Chlorobromomethane	128	4.532	4.532	0.0	78	12583	20.1	
46 Tetrahydrofuran	42	4.551	4.551	0.0	28	23669	34.5	
48 Methacrylonitrile	67	4.551	4.551	0.0	93	109948	NC	
49 Chloroform	83	4.575	4.575	0.0	84	51415	22.8	
50 Cyclohexane	56	4.691	4.691	0.0	96	67406	25.6	
51 1,1,1-Trichloroethane	97	4.697	4.697	0.0	68	43043	23.1	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.703	0.0	87	58095	58.8	
53 Carbon tetrachloride	117	4.794	4.794	0.0	85	34246	22.3	
54 1,1-Dichloropropene	75	4.813	4.813	0.0	92	38086	22.5	
55 Benzene	78	4.971	4.971	0.0	96	120643	21.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.977	4.977	0.0	92	72383	59.5	
58 Isopropyl acetate	43	5.014	5.014	0.0	93	81148	22.1	
57 Isobutyl alcohol	43	4.910	4.910	0.0	86	20837	NC	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	86	79526	NC	
60 1,2-Dichloroethane	62	5.038	5.038	0.0	88	36216	22.2	
61 n-Heptane	57	5.087	5.087	0.0	92	29514	29.1	
* 62 Fluorobenzene	96	5.191	5.191	0.0	97	193892	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.349	5.349	0.0	95	176342	NC	
140 n-Butanol	56	5.410	5.410	0.0	43	9971	326.1	
64 Trichloroethene	95	5.453	5.453	0.0	89	27286	22.5	
65 Ethyl acrylate	55	5.544	5.544	0.0	92	82416	24.0	
66 Methylcyclohexane	83	5.557	5.557	0.0	93	57356	24.8	
67 1,2-Dichloropropane	63	5.678	5.678	0.0	92	33410	22.9	
68 Methyl methacrylate	100	5.721	5.721	0.0	87	9810	36.7	
* 69 1,4-Dioxane-d8	96	5.727	5.727	0.0	71	11194	1000.0	
70 n-Propyl acetate	43	5.764	5.764	0.0	73	35524	21.2	
71 1,4-Dioxane	88	5.764	5.764	0.0	3	3486	332.6	M
72 Dibromomethane	93	5.776	5.776	0.0	90	15865	21.4	
73 Dichlorobromomethane	83	5.892	5.892	0.0	95	35894	21.8	
74 2-Chloroethyl vinyl ether	63	6.154	6.154	0.0	71	11993	20.4	
75 2-Nitropropane	41	6.160	6.160	0.0	83	10686	NC	
76 Epichlorohydrin	57	6.252	6.252	0.0	98	42285	443.8	
77 cis-1,3-Dichloropropene	75	6.306	6.306	0.0	86	42058	20.8	
78 4-Methyl-2-pentanone (MIBK)	43	6.447	6.447	0.0	98	152674	117.2	
$ 79 Toluene-d8 (Surr)	98	6.520	6.520	0.0	97	223281	55.0	
80 Toluene	91	6.587	6.587	0.0	92	113611	20.8	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	94	33215	21.0	
82 Ethyl methacrylate	69	6.849	6.849	0.0	90	36228	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	90	19631	20.2	
84 Tetrachloroethene	166	7.032	7.032	0.0	80	21612	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
85 1,3-Dichloropropane	76	7.129	7.129	0.0	93	39635	21.2	
86 2-Hexanone	43	7.160	7.160	0.0	96	97425	118.8	
87 n-Butyl acetate	73	7.233	7.233	0.0	98	5650	17.6	
88 Chlorodibromomethane	129	7.276	7.276	0.0	94	21916	21.4	
89 Ethylene Dibromide	107	7.385	7.385	0.0	99	20268	21.4	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	87	127354	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	91	63553	19.8	
92 Ethylbenzene	106	7.757	7.757	0.0	99	38829	20.5	
93 1,1,1,2-Tetrachloroethane	131	7.763	7.763	0.0	86	24634	20.7	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	48085	21.2	
95 n-Butyl acrylate	73	8.062	8.062	0.0	96	19395	18.1	
96 o-Xylene	106	8.099	8.099	0.0	89	47997	20.0	
97 Styrene	104	8.111	8.111	0.0	91	79414	20.4	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	89	55483	20.2	
99 Bromoform	173	8.251	8.251	0.0	95	13709	20.7	
100 Isopropylbenzene	105	8.312	8.312	0.0	97	131077	21.2	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	82	59527	52.0	
102 Camphene	41	8.452	8.452	0.0	96	12339	22.7	
104 Bromobenzene	156	8.525	8.525	0.0	94	27718	18.7	
103 1,1,2,2-Tetrachloroethane	83	8.525	8.525	0.0	85	36631	20.9	
105 N-Propylbenzene	91	8.550	8.550	0.0	98	177373	20.3	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	61	7827	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	88	9087	20.6	
107 4-Ethyltoluene	105	8.617	8.617	0.0	90	135061	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	96	116796	19.7	
109 1,3,5-Trimethylbenzene	105	8.653	8.653	0.0	82	113051	19.8	
111 4-Chlorotoluene	91	8.684	8.684	0.0	97	102806	20.1	
110 Butyl Methacrylate	87	8.690	8.690	0.0	65	41511	17.8	
112 tert-Butylbenzene	119	8.830	8.830	0.0	89	84645	19.2	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	97	118025	19.7	
114 sec-Butylbenzene	105	8.946	8.946	0.0	99	150800	20.7	
115 4-Isopropyltoluene	119	9.019	9.019	0.0	89	119211	19.6	
116 1,3-Dichlorobenzene	146	9.038	9.038	0.0	93	58982	19.8	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	93	74993	50.0	
118 1,4-Dichlorobenzene	146	9.092	9.092	0.0	81	61094	19.4	
119 Benzyl chloride	91	9.172	9.172	0.0	98	63013	20.5	
120 2,3-Dihydroindene	117	9.214	9.214	0.0	93	123801	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	87	74119	NC	
122 n-Butylbenzene	92	9.245	9.245	0.0	97	76774	21.6	
123 1,2-Dichlorobenzene	146	9.306	9.306	0.0	92	59129	20.7	
124 1,2,4,5-Tetramethylbenzene	119	9.696	9.696	0.0	97	93603	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.787	9.787	0.0	83	4736	19.6	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	94	35393	NC	
127 Camphor	95	10.275	10.275	0.0	91	8028	69.6	
128 1,2,4-Trichlorobenzene	180	10.336	10.336	0.0	91	26684	17.4	
129 Hexachlorobutadiene	225	10.409	10.409	0.0	88	15840	21.4	
130 Naphthalene	128	10.549	10.549	0.0	99	60808	23.1	
133 1,2,3-Trichlorobenzene	180	10.751	10.751	0.0	91	16906	19.0	
S 136 1,2-Dichloroethene, Total	100				0		43.5	
S 137 Xylenes, Total	100				0		41.3	
S 147 Total BTEX	1				0		103.8	

QC Flag Legend

Review Flags
M - Manually Integrated

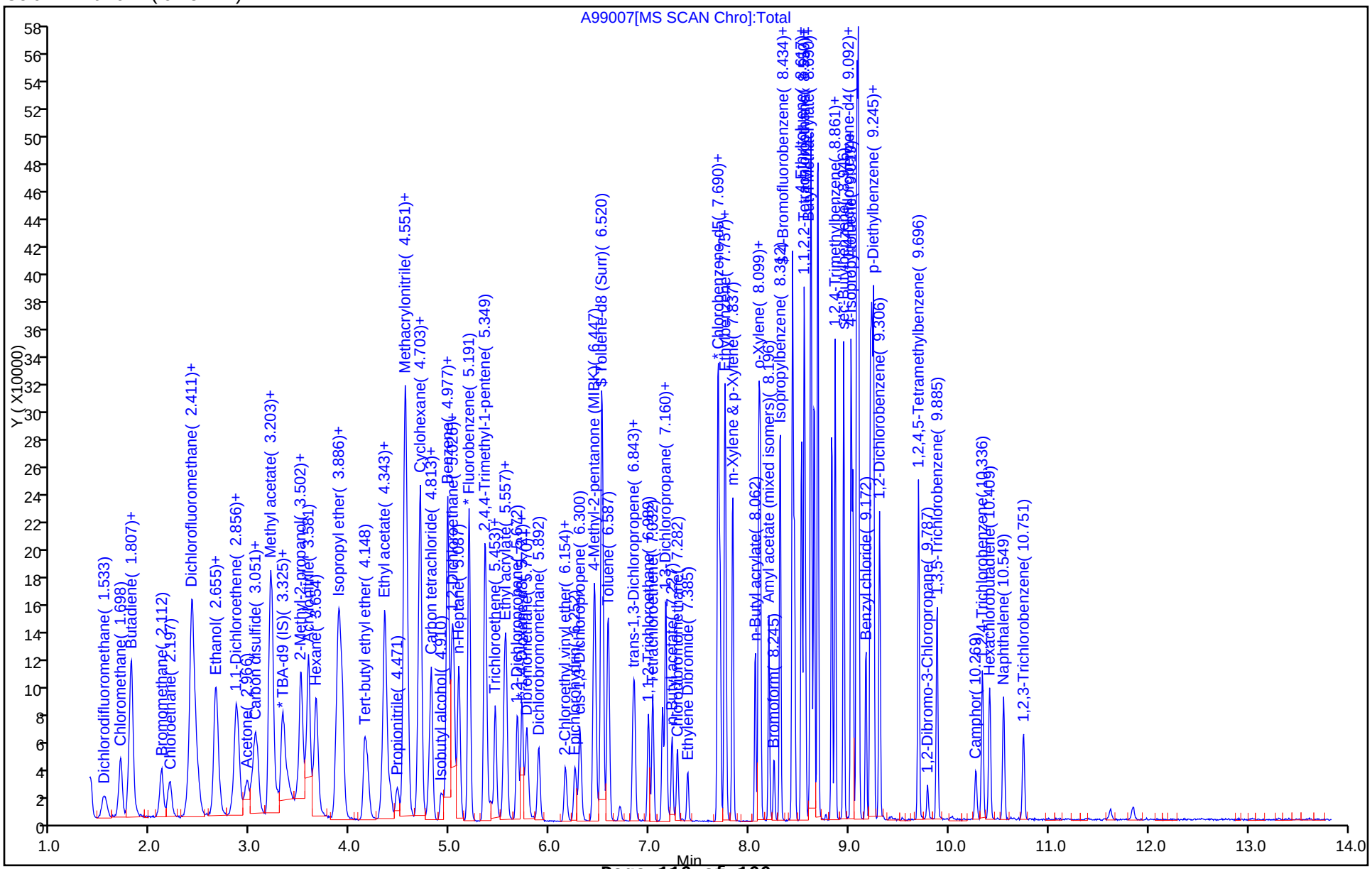
Report Date: 04-Feb-2014 14:14:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99007.D

Injection Date:	04-Feb-2014 06:46:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	CCVIS	Lab Sample ID:	LCS 460-205455/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

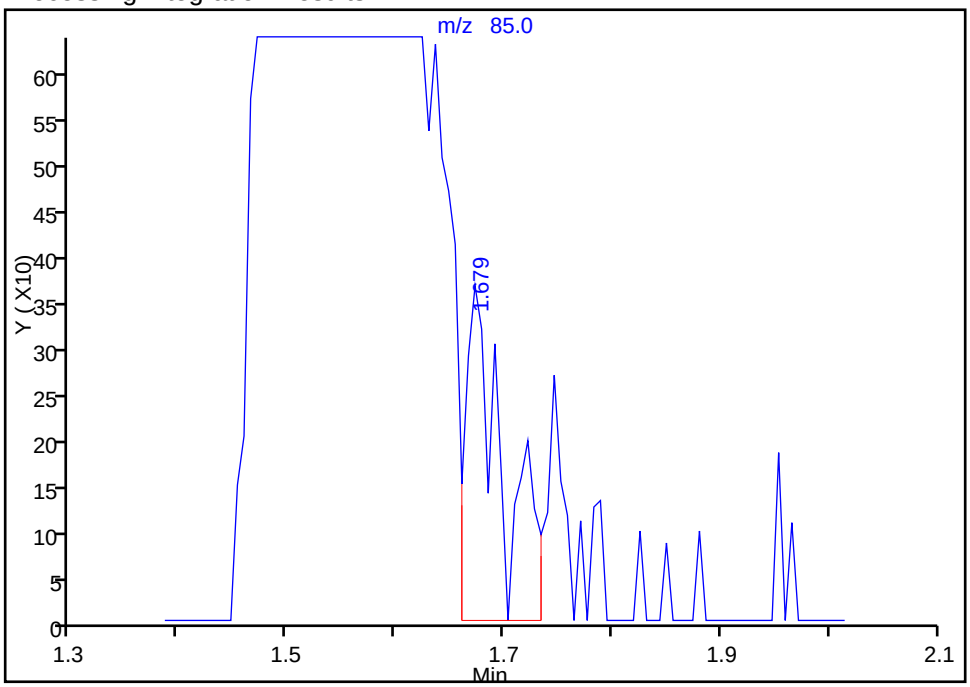
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99007.D
Injection Date: 04-Feb-2014 06:46:30 Instrument ID: CVOAMS1
Lims ID: CCVIS Lab Sample ID: LCS 460-205455/3-A
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

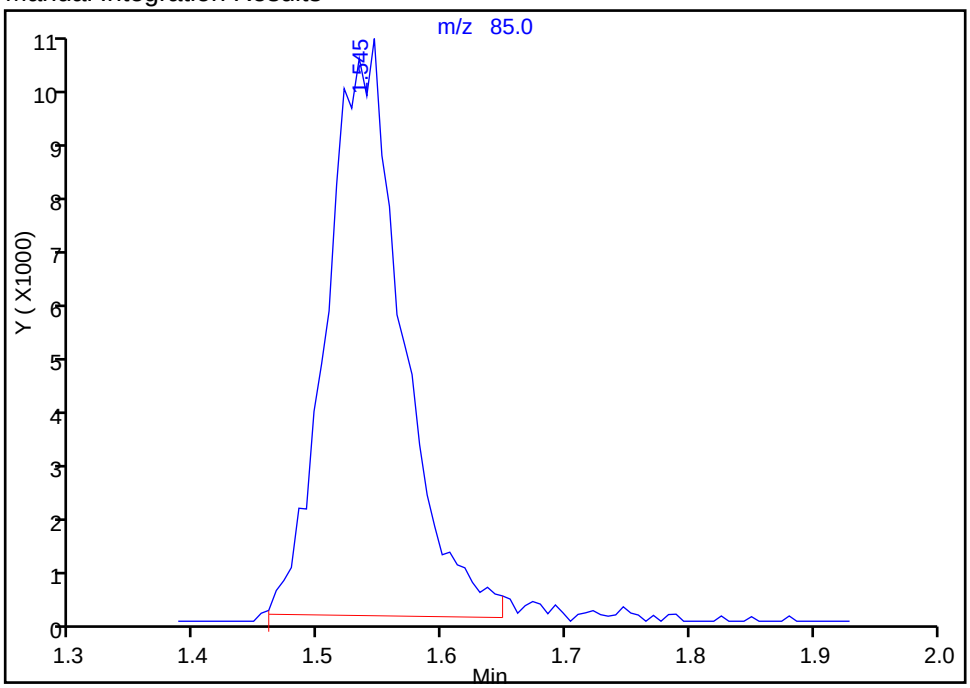
Processing Integration Results

RT: 1.68
Response: 877
Amount: 0.571934



Manual Integration Results

RT: 1.55
Response: 44669
Amount: 29.130784



Reviewer: moroneyc, 04-Feb-2014 07:17:15
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Manual Integration/User Assign Peak Report

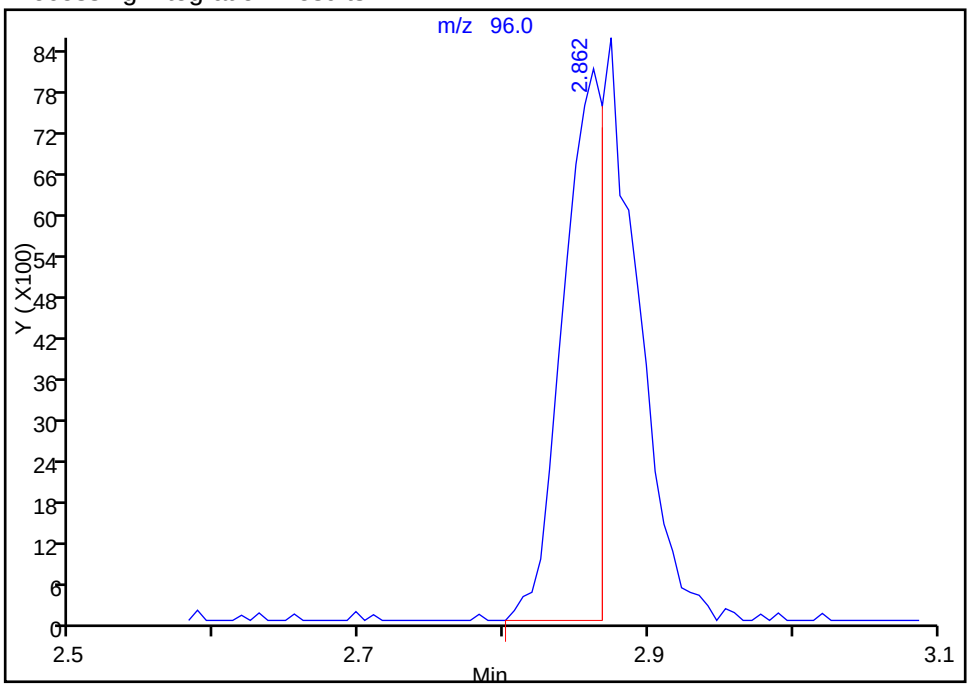
TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99007.D				
Injection Date:	04-Feb-2014 06:46:30	Instrument ID:	CVOAMS1		
Lims ID:	CCVIS	Lab Sample ID:	LCS 460-205455/3-A		
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

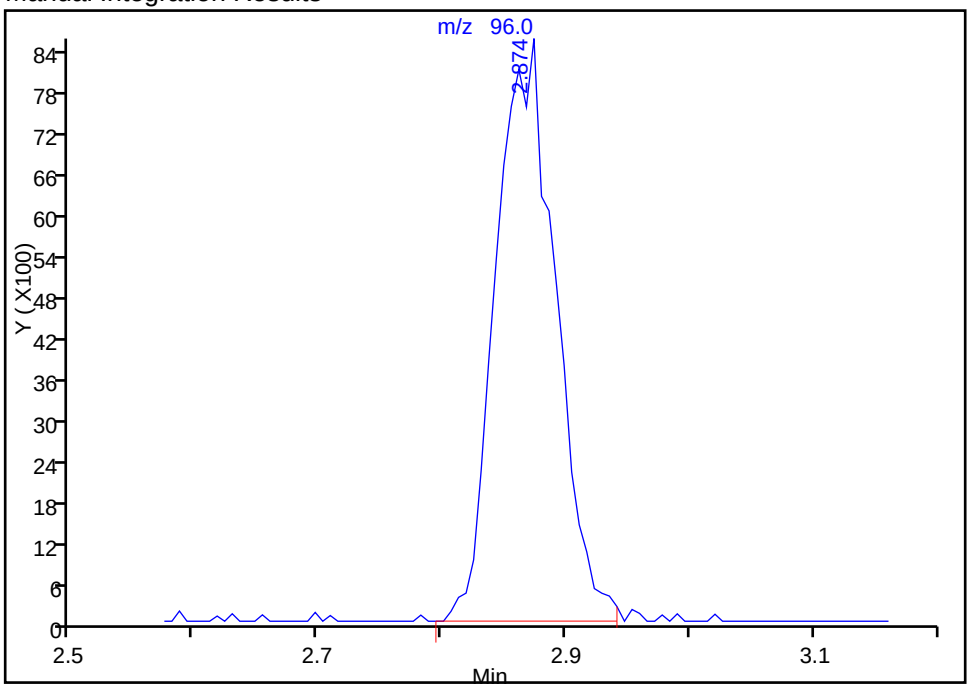
Processing Integration Results

RT: 2.86
Response: 15785
Amount: 12.854402



Manual Integration Results

RT: 2.87
Response: 28812
Amount: 23.462846



Reviewer: delpolitov, 04-Feb-2014 14:14:47
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Manual Integration/User Assign Peak Report

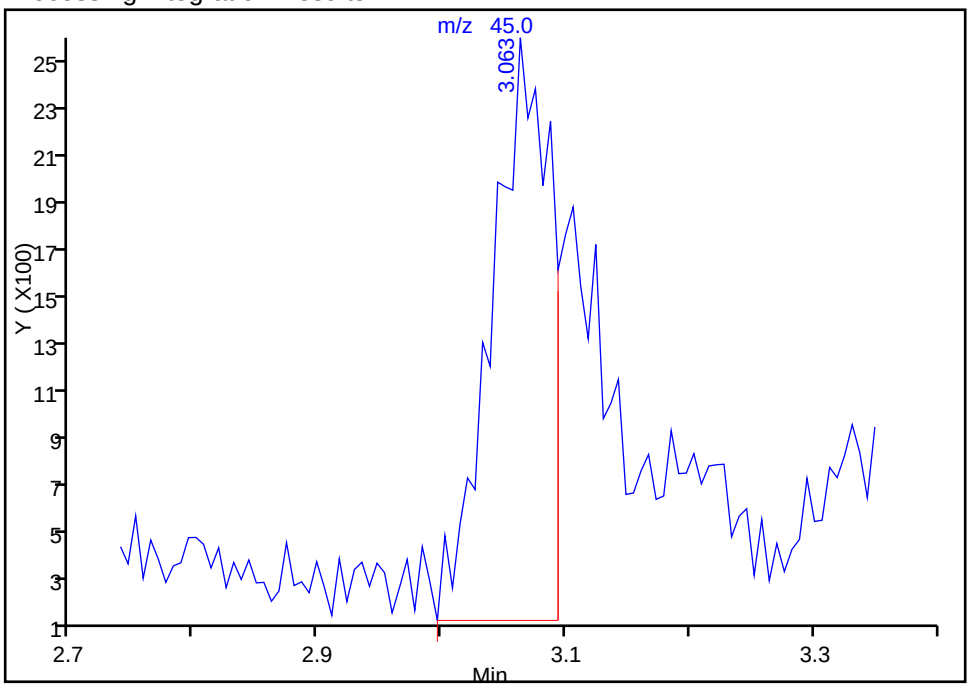
TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99007.D				
Injection Date:	04-Feb-2014 06:46:30	Instrument ID:	CVOAMS1		
Lims ID:	CCVIS	Lab Sample ID:	LCS 460-205455/3-A		
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

138 Isopropyl alcohol, CAS: 67-63-0

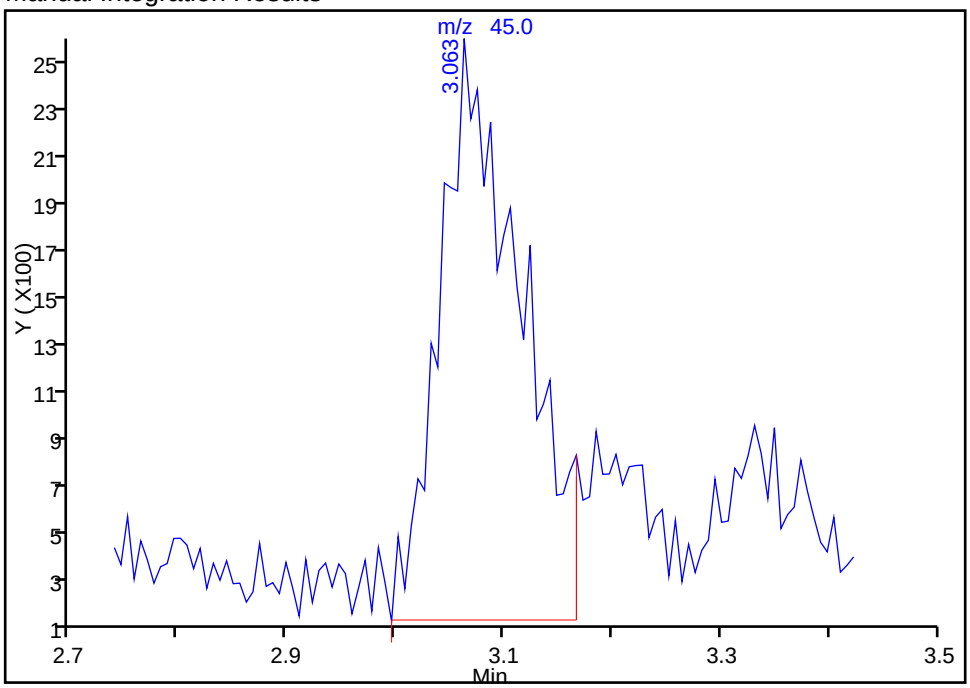
Processing Integration Results

RT: 3.06
Response: 7780
Amount: 100.5699



Manual Integration Results

RT: 3.06
Response: 12225
Amount: 158.0291



Reviewer: delpolitov, 04-Feb-2014 14:14:47
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Manual Integration/User Assign Peak Report

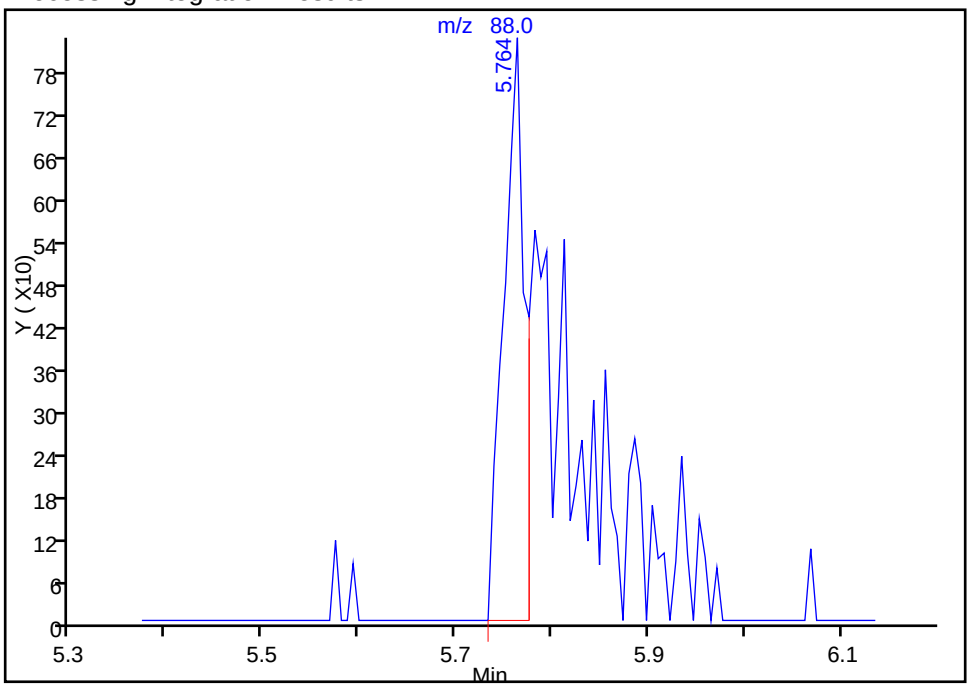
TestAmerica Edison

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99007.D				
Injection Date:	04-Feb-2014 06:46:30	Instrument ID:	CVOAMS1		
Lims ID:	CCVIS	Lab Sample ID:	LCS 460-205455/3-A		
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

71 1,4-Dioxane, CAS: 123-91-1

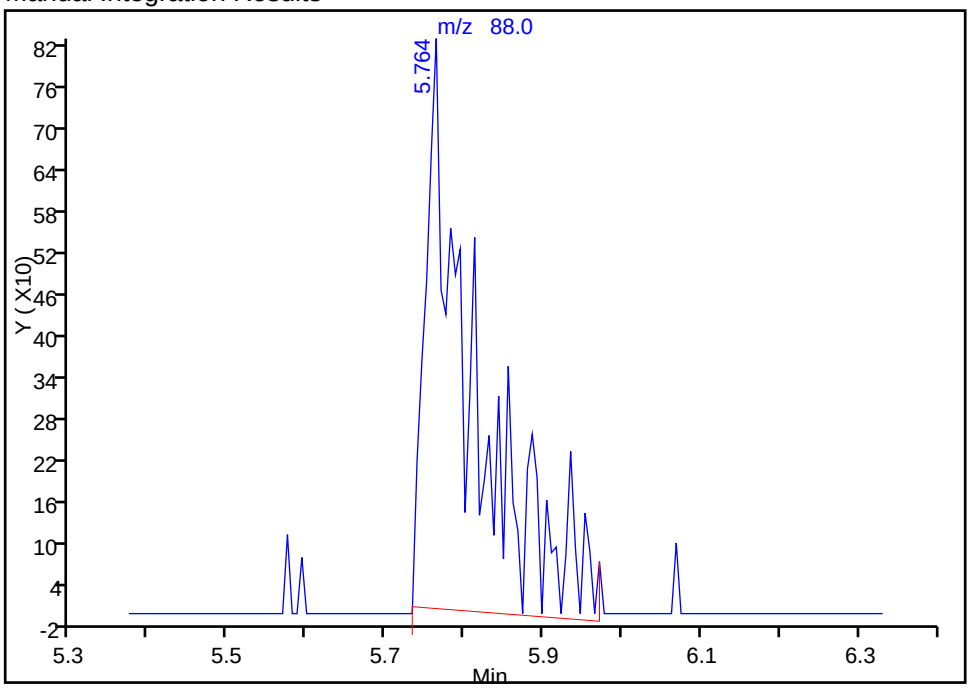
Processing Integration Results

RT: 5.76
Response: 1268
Amount: 120.9947



Manual Integration Results

RT: 5.76
Response: 3486
Amount: 332.6399



Reviewer: moroneyc, 04-Feb-2014 07:07:41
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98625.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Jan-2014 02:11:30	ALS Bottle#:	99	Worklist Smp#:	1
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0009219-001				
Operator ID:	VOA GC/MS1	Instrument ID:	CVOAMS1		
Method:	\\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\8260624W_1.m				
Limit Group:	VOA 624 ICAL				
Last Update:	27-Jan-2014 18:57:45	Calib Date:	27-Jan-2014 05:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK040				

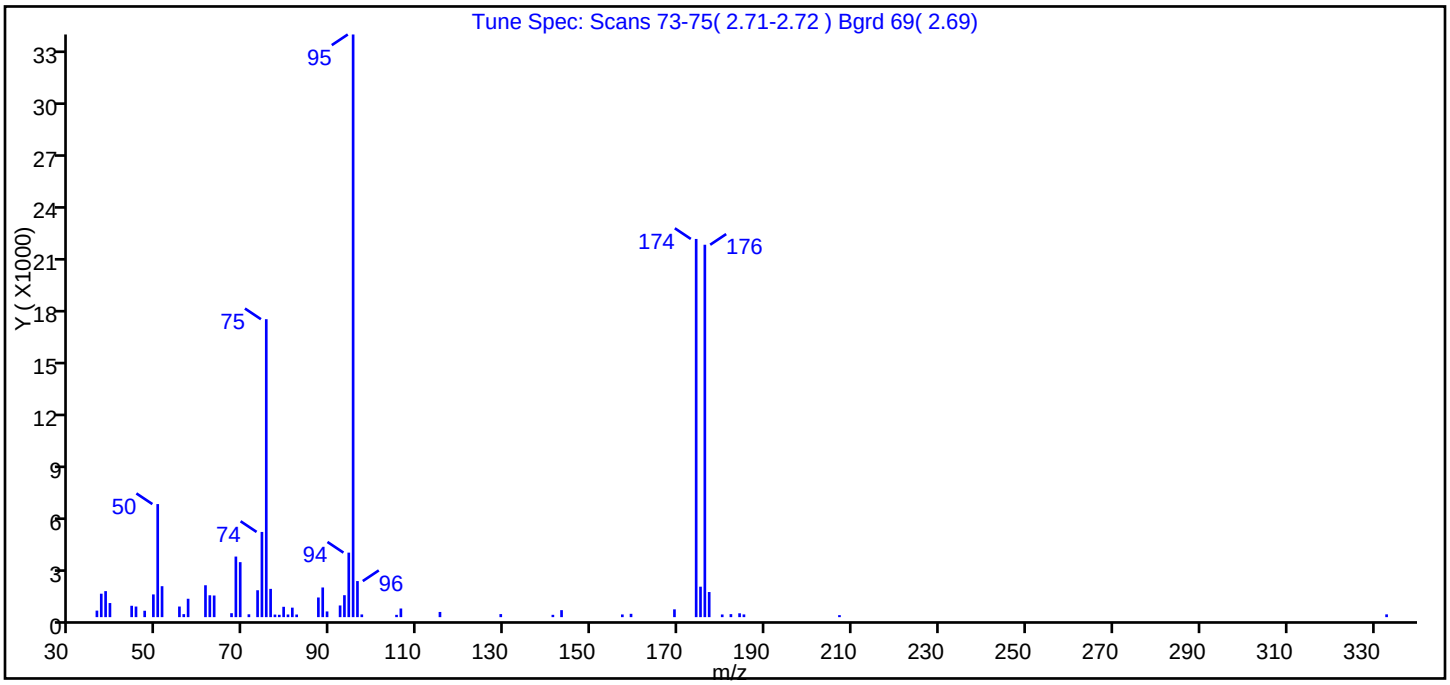
Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
$ 151 BFB	95	2.716	2.716	0.0	78	46596	NR	

MS Tune Report

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98625.D
Injection Date: 27-Jan-2014 02:11:30 Instrument ID: CVOAMS1
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 99 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Tune Method: BFB Method 8260

$ 151 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.40
75	30.00 - 60.00% of mass 95	51.10
96	5.00 - 9.00% of mass 95	6.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	64.90
175	5.00 - 9.00% of mass 174	5.20 (8.10)
176	95.00 - 101.00% of mass 174	63.90 (98.50)
177	5.00 - 9.00% of mass 176	4.30 (6.70)

Data File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98625.D\8260624W_1.rslt\spectra.d
Injection Date: 27-Jan-2014 02:11:30
Spectrum: Tune Spec: Scans 73-75(2.71-2.72) Bgrd 69(2.69)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	379	63.00	1255	87.00	1141	157.00	156
37.00	1360	67.00	229	88.00	1721	159.00	193
38.00	1509	68.00	3515	89.00	331	169.00	453
39.00	818	69.00	3191	92.00	678	174.00	21944
44.00	660	71.00	165	93.00	1273	175.00	1767
45.00	615	73.00	1561	94.00	3743	176.00	21608
47.00	371	74.00	4944	95.00	33808	177.00	1457
49.00	1319	75.00	17288	96.00	2093	180.00	155
50.00	6560	76.00	1641	97.00	157	182.00	174
51.00	1796	77.00	150	105.00	134	184.00	223
55.00	616	78.00	137	106.00	502	185.00	158
56.00	175	79.00	600	115.00	301	207.00	116
57.00	1067	80.00	154	129.00	177	333.00	162
61.00	1850	81.00	551	141.00	135		
62.00	1269	82.00	152	143.00	406		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99005.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 04-Feb-2014 06:04:30 ALS Bottle#: 99 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0009480-001
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 04-Feb-2014 08:48:36 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: moroneyc Date: 04-Feb-2014 06:12:05

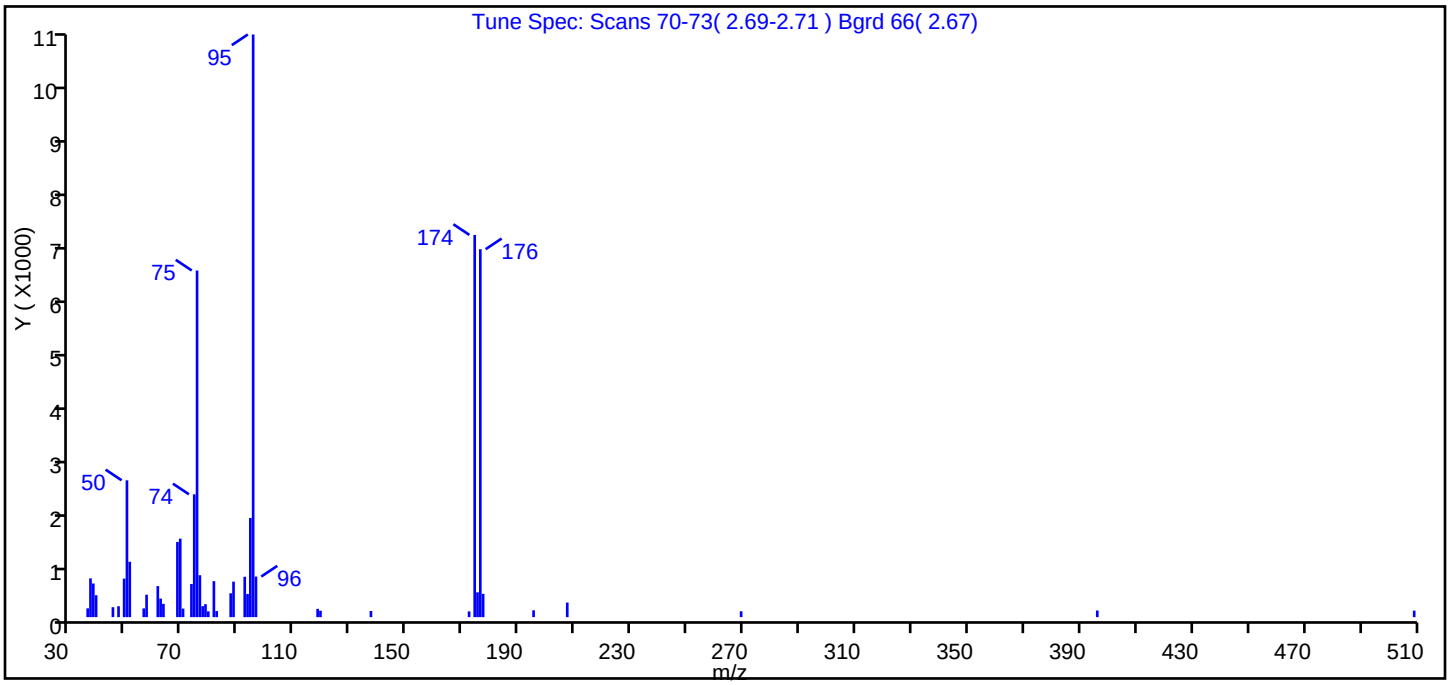
Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
$ 151 BFB	95	2.704	2.704	0.0	0	17292	NR	

MS Tune Report

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99005.D
Injection Date: 04-Feb-2014 06:04:30 Instrument ID: CVOAMS1
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 99 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Tune Method: BFB Method 8260

$ 151 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.50
75	30.00 - 60.00% of mass 95	59.50
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	65.60
175	5.00 - 9.00% of mass 174	4.30 (6.50)
176	95.00 - 101.00% of mass 174	63.10 (96.30)
177	5.00 - 9.00% of mass 176	4.00 (6.30)

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99005.D\8260624W_1.rslt\spectra.d
Injection Date: 04-Feb-2014 06:04:30
Spectrum: Tune Spec: Scans 70-73(2.69-2.71) Bgrd 66(2.67)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	154	62.00	324	81.00	630	172.00	101
37.00	678	63.00	232	82.00	106	174.00	6684
38.00	588	68.00	1315	87.00	417	175.00	434
39.00	383	69.00	1373	88.00	621	176.00	6434
45.00	174	70.00	149	92.00	706	177.00	408
47.00	191	73.00	580	93.00	405	195.00	120
49.00	674	74.00	2148	94.00	1733	207.00	255
50.00	2393	75.00	6062	95.00	10189	269.00	102
51.00	968	76.00	733	96.00	710	396.00	116
56.00	153	77.00	192	118.00	145	509.00	114
57.00	392	78.00	227	119.00	112		
61.00	543	79.00	101	137.00	107		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-205851/7

Matrix: Water | Lab File ID: A99011.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 08:27

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.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
123-91-1	1,4-Dioxane	36	U	50	36
78-93-3	2-Butanone	2.3	U	5.0	2.3
591-78-6	2-Hexanone	0.50	U	5.0	0.50
108-10-1	MIBK	0.99	U	5.0	0.99
67-64-1	Acetone	2.7	U	5.0	2.7
71-43-2	Benzene	0.080	U	1.0	0.080
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
75-00-3	Chloroethane	0.17	U	1.0	0.17
67-66-3	Chloroform	0.080	U	1.0	0.080
74-87-3	Chloromethane	0.10	U	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
100-42-5	Styrene	0.12	U	1.0	0.12
127-18-4	Tetrachloroethene	0.10	U	1.0	0.10
108-88-3	Toluene	0.15	U	1.0	0.15
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
79-01-6	Trichloroethene	0.090	U	1.0	0.090
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
1330-20-7	Xylenes, Total	0.36	U	2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-205851/7

Matrix: Water Lab File ID: A99011.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 08:27

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.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
460-00-4	Bromofluorobenzene	106		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-205851/7

Matrix: Water Lab File ID: A99011.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 08:27

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.: 205851 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: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99011.D
Lims ID: MB Lab Sample ID: MB 460-205851/7-A
Client ID:
Sample Type: MB
Inject. Date: 04-Feb-2014 08:27:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0009480-007
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 04-Feb-2014 08:48:43 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: moroneyc Date: 04-Feb-2014 08:48:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 28 TBA-d9 (IS)	65	3.362	3.368	-0.006	52	104681	1000.0	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.703	0.006	41	54838	53.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.977	0.007	55	70706	56.4	
* 62 Fluorobenzene	96	5.197	5.191	0.006	97	199632	50.0	
* 69 1,4-Dioxane-d8	96	5.733	5.727	0.006	1	9193	1000.0	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	98	204834	50.2	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	89	127876	50.0	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	82	54578	53.2	
* 117 1,4-Dichlorobenzene-d4	152	9.086	9.080	0.006	97	67245	50.0	

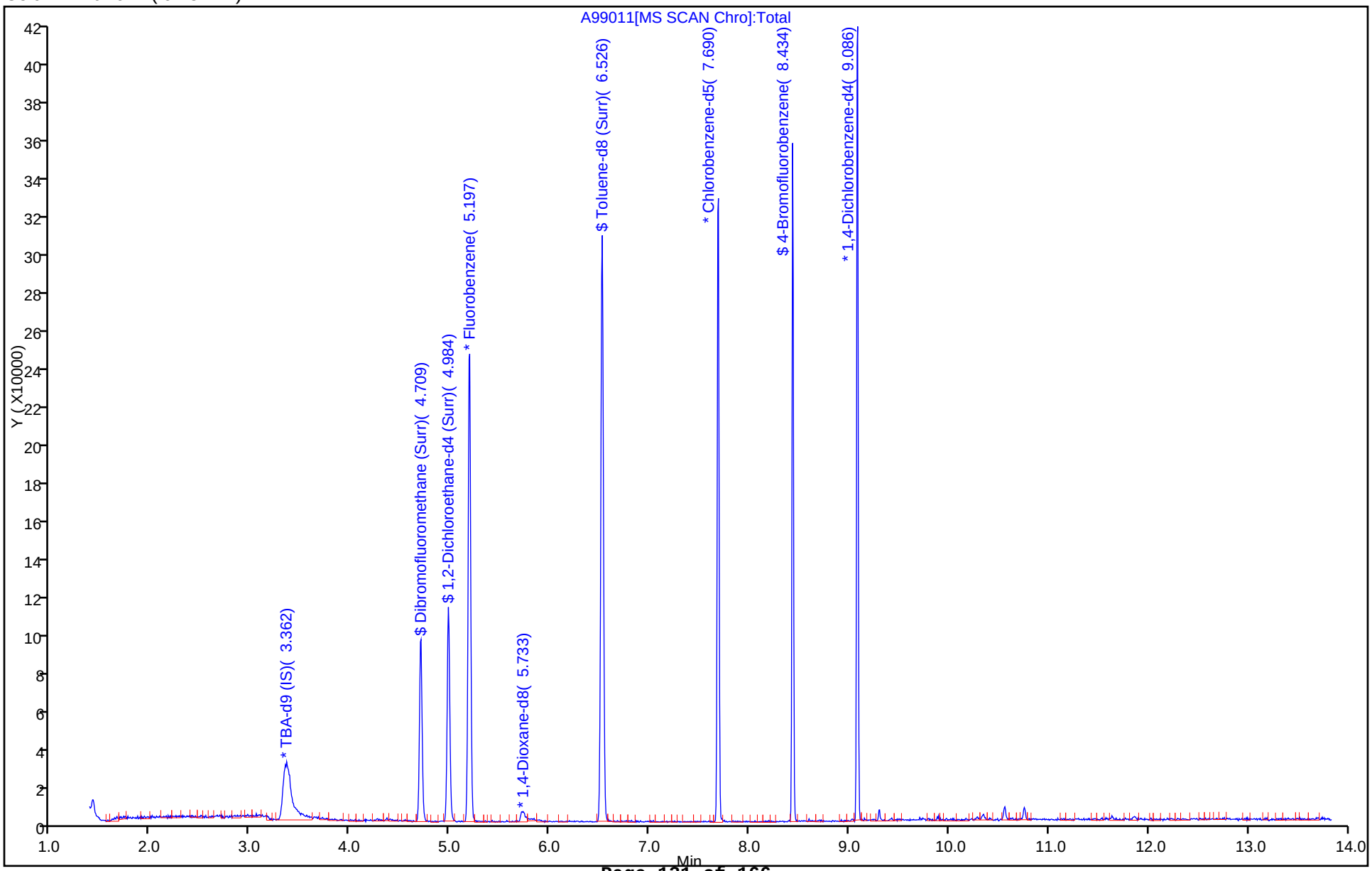
Report Date: 04-Feb-2014 08:48:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99011.D

Injection Date:	04-Feb-2014 08:27:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	MB	Lab Sample ID:	MB 460-205851/7-A	Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-205851/36

Matrix: Water | Lab File ID: A99040.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 18:37

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.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
123-91-1	1,4-Dioxane	36	U	50	36
78-93-3	2-Butanone	2.3	U	5.0	2.3
591-78-6	2-Hexanone	0.50	U	5.0	0.50
108-10-1	MIBK	0.99	U	5.0	0.99
67-64-1	Acetone	2.7	U	5.0	2.7
71-43-2	Benzene	0.080	U	1.0	0.080
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
75-00-3	Chloroethane	0.17	U	1.0	0.17
67-66-3	Chloroform	0.080	U	1.0	0.080
74-87-3	Chloromethane	0.10	U	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
100-42-5	Styrene	0.12	U	1.0	0.12
127-18-4	Tetrachloroethene	0.10	U	1.0	0.10
108-88-3	Toluene	0.15	U	1.0	0.15
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
79-01-6	Trichloroethene	0.090	U	1.0	0.090
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
1330-20-7	Xylenes, Total	0.36	U	2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-205851/36

Matrix: Water Lab File ID: A99040.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 18:37

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.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		70-130
460-00-4	Bromofluorobenzene	110		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	110		70-130

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

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-205851/36

Matrix: Water Lab File ID: A99040.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 18:37

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.: 205851 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

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

Report Date: 05-Feb-2014 07:02:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99040.D
Lims ID: MB Lab Sample ID: MB 460-205851/36-A
Client ID:
Sample Type: MB
Inject. Date: 04-Feb-2014 18:37:30 ALS Bottle#: 23 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0009480-036
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 05-Feb-2014 06:58:50 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: moroneyc Date: 05-Feb-2014 06:50:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 28 TBA-d9 (IS)	65	3.350	3.368	-0.018	53	100273	1000.0	
$ 52 Dibromofluoromethane (Surr)	113	4.703	4.703	0.0	47	49223	55.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.977	0.007	50	64045	58.1	
* 62 Fluorobenzene	96	5.191	5.191	0.0	98	175589	50.0	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	1	7441	1000.0	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	97	188122	52.8	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	88	111736	50.0	
$ 101 4-Bromofluorobenzene	174	8.440	8.434	0.006	87	50872	55.0	
* 117 1,4-Dichlorobenzene-d4	152	9.086	9.080	0.006	98	60564	50.0	

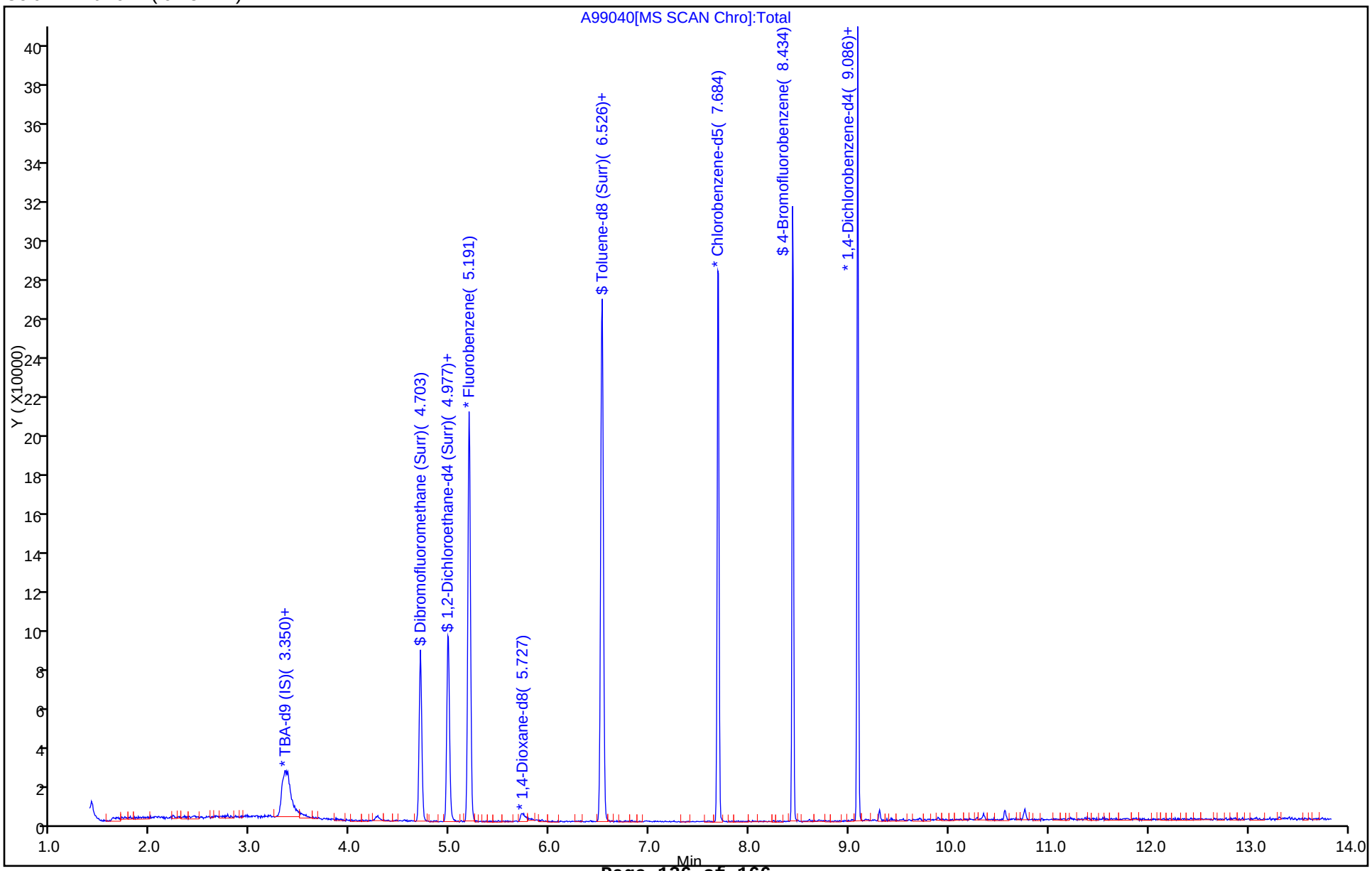
Report Date: 05-Feb-2014 07:02:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99040.D

Injection Date:	04-Feb-2014 18:37:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	MB	Lab Sample ID:	MB 460-205851/36-A	Worklist Smp#:	36
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-205851/33

Matrix: Water | Lab File ID: A99037.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 17:38

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.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.060
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.0	0.16
79-00-5	1,1,2-Trichloroethane	19.4		1.0	0.19
75-34-3	1,1-Dichloroethane	20.7		1.0	0.13
75-35-4	1,1-Dichloroethene	20.3		1.0	0.090
107-06-2	1,2-Dichloroethane	21.0		1.0	0.19
78-87-5	1,2-Dichloropropane	20.4		1.0	0.090
123-91-1	1,4-Dioxane	353		50	36
78-93-3	2-Butanone	83.3		5.0	2.3
591-78-6	2-Hexanone	105		5.0	0.50
108-10-1	MIBK	108		5.0	0.99
67-64-1	Acetone	85.7		5.0	2.7
71-43-2	Benzene	19.6		1.0	0.080
75-27-4	Bromodichloromethane	20.1		1.0	0.12
75-25-2	Bromoform	17.8		1.0	0.19
74-83-9	Bromomethane	22.2		1.0	0.18
75-15-0	Carbon disulfide	21.4		1.0	0.13
56-23-5	Carbon tetrachloride	20.2		1.0	0.060
108-90-7	Chlorobenzene	18.2		1.0	0.11
75-00-3	Chloroethane	22.1		1.0	0.17
67-66-3	Chloroform	19.8		1.0	0.080
74-87-3	Chloromethane	23.8		1.0	0.10
156-59-2	cis-1,2-Dichloroethene	18.5		1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	18.9		1.0	0.18
124-48-1	Dibromochloromethane	18.7		1.0	0.20
100-41-4	Ethylbenzene	17.5		1.0	0.10
75-09-2	Methylene Chloride	19.9		1.0	0.18
100-42-5	Styrene	17.5		1.0	0.12
127-18-4	Tetrachloroethene	19.1		1.0	0.10
108-88-3	Toluene	18.8		1.0	0.15
156-60-5	trans-1,2-Dichloroethene	20.6		1.0	0.13
10061-02-6	trans-1,3-Dichloropropene	19.8		1.0	0.24
79-01-6	Trichloroethene	22.1		1.0	0.090
75-01-4	Vinyl chloride	22.3		1.0	0.14
1330-20-7	Xylenes, Total	36.1		2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-205851/33

Matrix: Water Lab File ID: A99037.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 17:38

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.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-130
460-00-4	Bromofluorobenzene	98		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99037.D
Lims ID: LCS Lab Sample ID: LCS 460-205851/33-A
Client ID:
Sample Type: LCS
Inject. Date: 04-Feb-2014 17:38:30 ALS Bottle#: 20 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0009480-033
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 05-Feb-2014 10:08:30 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: delpolitov Date: 05-Feb-2014 10:08:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.539	1.545	-0.006	87	36194	21.8	
4 Chloromethane	50	1.710	1.698	0.012	89	64199	23.8	
6 Vinyl chloride	62	1.807	1.807	0.0	82	56145	22.3	
5 Butadiene	54	1.813	1.807	0.006	77	54809	NC	
9 Bromomethane	94	2.118	2.112	0.006	97	30495	22.2	
10 Chloroethane	64	2.198	2.197	0.001	95	33057	22.1	
12 Dichlorofluoromethane	67	2.411	2.399	0.012	90	76467	NC	
13 Trichlorofluoromethane	101	2.417	2.411	0.006	49	51830	23.1	
11 Pentane	72	2.435	2.423	0.012	97	15431	50.0	
14 Ethyl ether	59	2.649	2.636	0.013	94	28455	21.5	
16 Ethanol	46	2.636	2.642	-0.006	84	6315	1451.8	M
15 2-Methyl-1,3-butadiene	67	2.667	2.661	0.006	97	51097	21.5	
17 Acrolein	56	2.832	2.819	0.013	61	6907	32.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.856	2.862	-0.006	88	28336	20.8	
20 1,1-Dichloroethene	96	2.874	2.874	0.0	86	26947	20.3	
21 Acetone	43	2.972	2.966	0.006	78	51295	85.7	
22 Iodomethane	142	3.033	3.020	0.013	98	42482	18.1	
23 Carbon disulfide	76	3.069	3.057	0.012	100	110162	21.4	
138 Isopropyl alcohol	45	3.100	3.063	0.037	24	20791	291.0	
141 3-Chloro-1-propene	76	3.191	3.191	0.0	0	16815	19.0	
24 Methyl acetate	43	3.216	3.216	0.0	98	141549	121.3	
25 Cyclopentene	67	3.216	3.216	0.0	80	93192	NC	
26 Acetonitrile	41	3.264	3.270	-0.006	75	44328	192.3	M
27 Methylene Chloride	84	3.331	3.325	0.006	88	31162	19.9	
* 28 TBA-d9 (IS)	65	3.368	3.368	0.0	92	100276	1000.0	
29 2-Methyl-2-propanol	59	3.441	3.429	0.012	59	26355	188.4	
31 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	87	28948	20.6	
30 Methyl tert-butyl ether	73	3.514	3.514	0.0	92	84111	19.7	
32 Acrylonitrile	53	3.588	3.581	0.007	91	123077	218.4	
33 Hexane	43	3.667	3.661	0.006	93	33345	24.0	
34 Isopropyl ether	45	3.868	3.868	0.0	97	118052	22.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.886	3.880	0.006	91	59578	20.7	
36 Vinyl acetate	43	3.905	3.898	0.007	100	108854	27.6	
37 2-Chloro-1,3-butadiene	88	3.929	3.923	0.006	90	25557	NC	
38 Allyl alcohol	57	3.935	3.947	-0.012	35	8534	NC	
39 Tert-butyl ethyl ether	59	4.167	4.148	0.019	87	95640	NC	
40 2,2-Dichloropropane	77	4.337	4.325	0.012	63	36128	15.7	
41 cis-1,2-Dichloroethene	96	4.343	4.343	0.0	84	28908	18.5	
43 2-Butanone (MEK)	72	4.374	4.362	0.012	94	15124	83.3	
42 Ethyl acetate	70	4.374	4.362	0.012	94	5325	40.3	
44 Methyl acrylate	55	4.411	4.398	0.013	81	25937	NC	
45 Propionitrile	54	4.471	4.471	0.0	94	42678	NC	
47 Chlorobromomethane	128	4.539	4.532	0.007	78	12206	18.0	
46 Tetrahydrofuran	42	4.551	4.551	0.0	42	25010	39.5	
48 Methacrylonitrile	67	4.557	4.551	0.006	93	121692	NC	
49 Chloroform	83	4.575	4.575	0.0	84	48313	19.8	
50 Cyclohexane	56	4.697	4.691	0.006	95	62618	22.0	
51 1,1,1-Trichloroethane	97	4.709	4.697	0.012	64	40380	20.1	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.703	0.006	87	55551	52.0	
53 Carbon tetrachloride	117	4.795	4.794	0.001	86	33506	20.2	
54 1,1-Dichloropropene	75	4.819	4.813	0.006	93	38875	21.2	
57 Isobutyl alcohol	43	4.923	4.910	0.013	92	26071	NC	
55 Benzene	78	4.977	4.971	0.006	96	117164	19.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.977	0.007	93	74911	56.9	
58 Isopropyl acetate	43	5.020	5.014	0.006	92	87381	22.0	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	92	81420	NC	
60 1,2-Dichloroethane	62	5.045	5.038	0.007	87	36996	21.0	
61 n-Heptane	57	5.087	5.087	0.0	92	22851	20.9	
* 62 Fluorobenzene	96	5.197	5.191	0.006	98	209584	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.355	5.349	0.006	95	171099	NC	
140 n-Butanol	56	5.410	5.410	0.0	75	16233	574.7	
64 Trichloroethene	95	5.459	5.453	0.006	89	29046	22.1	
65 Ethyl acrylate	55	5.544	5.544	0.0	95	80943	21.8	
66 Methylcyclohexane	83	5.557	5.557	0.0	93	50400	20.2	
67 1,2-Dichloropropane	63	5.679	5.678	0.001	91	32120	20.4	
68 Methyl methacrylate	100	5.727	5.721	0.006	83	10606	36.7	
* 69 1,4-Dioxane-d8	96	5.733	5.727	0.006	83	8931	1000.0	
70 n-Propyl acetate	43	5.764	5.764	0.0	80	35430	19.6	
71 1,4-Dioxane	88	5.776	5.764	0.012	22	2955	353.4	
72 Dibromomethane	93	5.776	5.776	0.0	88	16224	20.3	
73 Dichlorobromomethane	83	5.892	5.892	0.0	94	35887	20.1	
74 2-Chloroethyl vinyl ether	63	6.160	6.154	0.006	67	11958	18.8	
75 2-Nitropropane	41	6.160	6.160	0.0	82	11736	NC	
76 Epichlorohydrin	57	6.258	6.252	0.006	98	39223	392.5	
77 cis-1,3-Dichloropropene	75	6.306	6.306	0.0	87	40153	18.9	
78 4-Methyl-2-pentanone (MIBK)	43	6.447	6.447	0.0	98	148019	108.3	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	97	222992	52.3	
80 Toluene	91	6.587	6.587	0.0	93	107504	18.8	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	95	32966	19.8	
82 Ethyl methacrylate	69	6.849	6.849	0.0	90	32535	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	90	19751	19.4	
84 Tetrachloroethene	166	7.038	7.032	0.006	84	21547	19.1	
85 1,3-Dichloropropane	76	7.136	7.129	0.007	92	38192	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 2-Hexanone	43	7.166	7.160	0.006	97	90103	104.7	
87 n-Butyl acetate	73	7.227	7.233	-0.006	99	6829	20.3	
88 Chlorodibromomethane	129	7.282	7.276	0.006	95	20094	18.7	
89 Ethylene Dibromide	107	7.379	7.385	-0.006	97	19428	19.5	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	87	133583	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	90	61157	18.2	
92 Ethylbenzene	106	7.757	7.757	0.0	99	34676	17.5	
93 1,1,1,2-Tetrachloroethane	131	7.764	7.763	0.001	83	23282	18.7	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	43619	18.4	
95 n-Butyl acrylate	73	8.062	8.062	0.0	95	19412	17.3	
96 o-Xylene	106	8.093	8.099	-0.006	90	44683	17.8	
97 Styrene	104	8.111	8.111	0.0	92	71722	17.5	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	91	56159	20.0	
99 Bromoform	173	8.251	8.251	0.0	93	12336	17.8	
100 Isopropylbenzene	105	8.312	8.312	0.0	97	121696	18.8	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	81	57528	49.2	
102 Camphene	41	8.452	8.452	0.0	96	13325	23.4	
104 Bromobenzene	156	8.526	8.525	0.001	93	25182	16.6	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.525	0.001	83	32580	18.2	
105 N-Propylbenzene	91	8.550	8.550	0.0	97	161451	18.1	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	58	7246	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	89	8416	18.7	
107 4-Ethyltoluene	105	8.617	8.617	0.0	97	126448	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	95	108669	17.9	
109 1,3,5-Trimethylbenzene	105	8.654	8.653	0.001	81	106466	18.3	
111 4-Chlorotoluene	91	8.690	8.684	0.006	96	95219	18.2	
110 Butyl Methacrylate	87	8.690	8.690	0.0	67	40090	16.8	
112 tert-Butylbenzene	119	8.830	8.830	0.0	88	79330	17.7	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	97	109433	17.9	
114 sec-Butylbenzene	105	8.946	8.946	0.0	98	139737	18.8	
115 4-Isopropyltoluene	119	9.025	9.019	0.006	90	109819	17.7	
116 1,3-Dichlorobenzene	146	9.044	9.038	0.006	94	55908	18.4	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	97	76642	50.0	
118 1,4-Dichlorobenzene	146	9.093	9.092	0.001	88	58651	18.3	
119 Benzyl chloride	91	9.172	9.172	0.0	98	48785	15.5	
120 2,3-Dihydroindene	117	9.221	9.214	0.007	91	125899	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	88	75809	NC	
122 n-Butylbenzene	92	9.251	9.245	0.006	93	71384	19.6	
123 1,2-Dichlorobenzene	146	9.312	9.306	0.006	93	55574	19.0	
124 1,2,4,5-Tetramethylbenzene	119	9.702	9.696	0.006	97	103276	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.788	9.787	0.001	81	6429	26.1	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	95	42295	NC	
127 Camphor	95	10.275	10.275	0.0	93	13192	111.9	
128 1,2,4-Trichlorobenzene	180	10.342	10.336	0.006	92	36062	23.0	
129 Hexachlorobutadiene	225	10.415	10.409	0.006	89	16709	22.1	
130 Naphthalene	128	10.556	10.549	0.007	99	81333	30.5	
133 1,2,3-Trichlorobenzene	180	10.751	10.751	0.0	91	27875	30.8	
S 137 Xylenes, Total	100				0		36.1	

QC Flag Legend

Review Flags
M - Manually Integrated

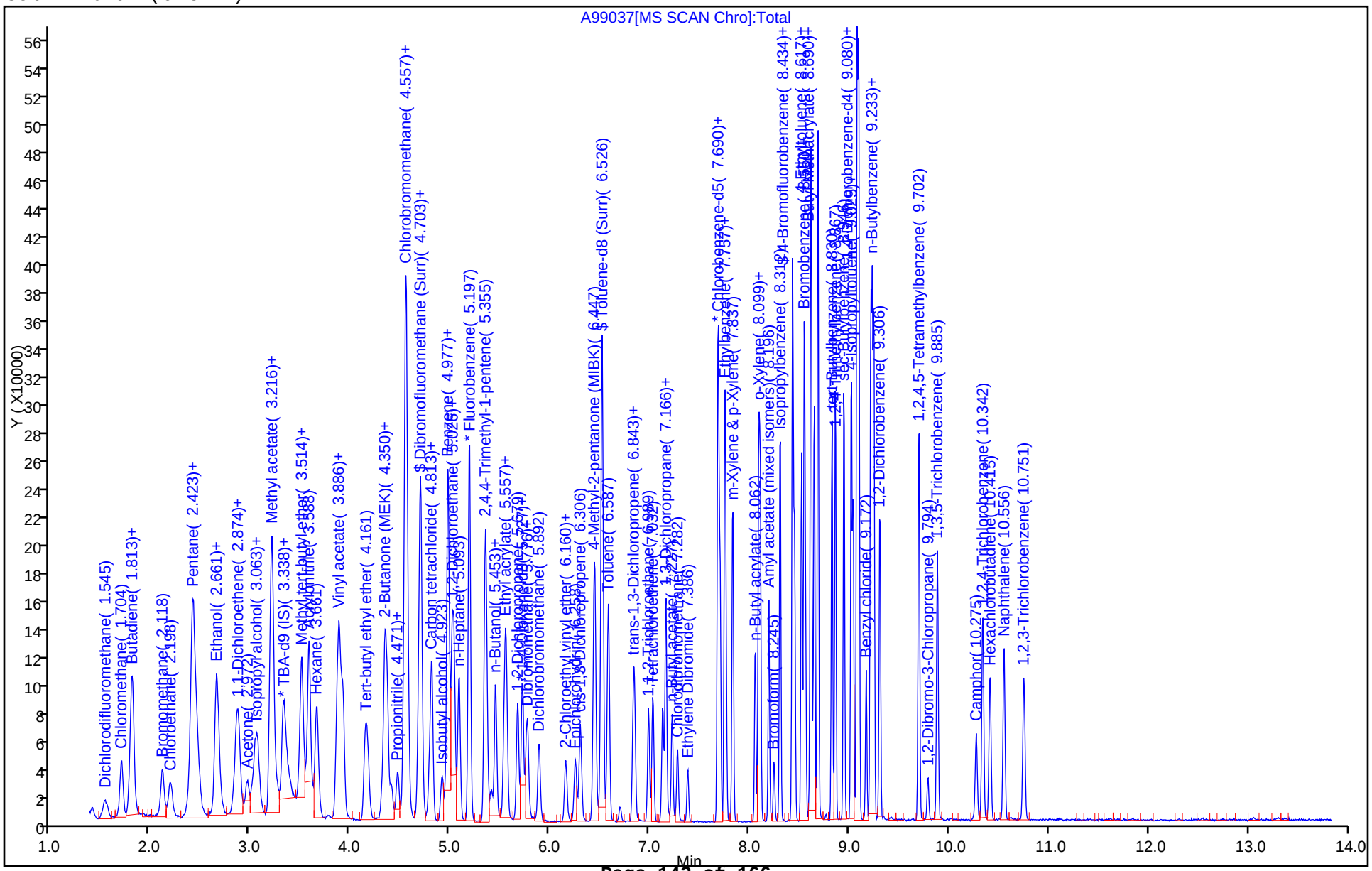
Report Date: 05-Feb-2014 10:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99037.D

Injection Date:	04-Feb-2014 17:38:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	LCS	Lab Sample ID:	LCS 460-205851/33-A	Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-70242-A-2 MS

Matrix: Water | Lab File ID: A99042.D

Analysis Method: 624 | Date Collected: 01/24/2014 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 19:17

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	219		10	0.60
79-34-5	1,1,2,2-Tetrachloroethane	216		10	1.6
79-00-5	1,1,2-Trichloroethane	201		10	1.9
75-34-3	1,1-Dichloroethane	236		10	1.3
75-35-4	1,1-Dichloroethene	229		10	0.90
107-06-2	1,2-Dichloroethane	221		10	1.9
78-87-5	1,2-Dichloropropane	219		10	0.90
123-91-1	1,4-Dioxane	3610		500	360
78-93-3	2-Butanone	802		50	23
591-78-6	2-Hexanone	1120		50	5.0
108-10-1	MIBK	1220		50	9.9
67-64-1	Acetone	778		50	27
71-43-2	Benzene	209		10	0.80
75-27-4	Bromodichloromethane	197		10	1.2
75-25-2	Bromoform	160		10	1.9
74-83-9	Bromomethane	216		10	1.8
75-15-0	Carbon disulfide	180		10	1.3
56-23-5	Carbon tetrachloride	216		10	0.60
108-90-7	Chlorobenzene	194		10	1.1
75-00-3	Chloroethane	228		10	1.7
67-66-3	Chloroform	230		10	0.80
74-87-3	Chloromethane	239		10	1.0
156-59-2	cis-1,2-Dichloroethene	208		10	1.8
10061-01-5	cis-1,3-Dichloropropene	169		10	1.8
124-48-1	Dibromochloromethane	176		10	2.0
100-41-4	Ethylbenzene	193		10	1.0
75-09-2	Methylene Chloride	223		10	1.8
100-42-5	Styrene	191		10	1.2
127-18-4	Tetrachloroethene	205		10	1.0
108-88-3	Toluene	203		10	1.5
156-60-5	trans-1,2-Dichloroethene	214		10	1.3
10061-02-6	trans-1,3-Dichloropropene	189		10	2.4
79-01-6	Trichloroethene	209		10	0.90
75-01-4	Vinyl chloride	227		10	1.4
1330-20-7	Xylenes, Total	391		20	3.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-70242-A-2 MS

Matrix: Water Lab File ID: A99042.D

Analysis Method: 624 Date Collected: 01/24/2014 12:00

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 19:17

Soil Aliquot Vol: Dilution Factor: 10

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	Bromofluorobenzene	91		70-130
2037-26-5	Toluene-d8 (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

Report Date: 05-Feb-2014 10:10:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99042.D
Lims ID: 460-70242-A-2 MS Lab Sample ID: 460-70242-2
Client ID:
Sample Type: MS
Inject. Date: 04-Feb-2014 19:17:30 ALS Bottle#: 25 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 460-70242-A-2 MS
Misc. Info.: 460-0009480-038
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 05-Feb-2014 10:10:45 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: kaewjindao Date: 05-Feb-2014 10:50:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
1 Propene	41	1.490	1.484	0.006	90	8829	NC	
3 Dichlorodifluoromethane	85	1.545	1.545	0.0	87	32842	21.6	
4 Chloromethane	50	1.710	1.698	0.012	89	58943	23.9	
6 Vinyl chloride	62	1.820	1.807	0.013	77	52285	22.7	
5 Butadiene	54	1.820	1.807	0.013	76	54572	NC	
9 Bromomethane	94	2.118	2.112	0.006	97	27213	21.6	
10 Chloroethane	64	2.198	2.197	0.001	96	31181	22.8	
12 Dichlorofluoromethane	67	2.411	2.399	0.012	90	74553	NC	
13 Trichlorofluoromethane	101	2.423	2.411	0.012	40	47706	23.2	
11 Pentane	72	2.435	2.423	0.012	97	15441	54.7	
14 Ethyl ether	59	2.655	2.636	0.019	92	28711	23.7	
16 Ethanol	46	2.637	2.642	-0.006	86	3807	868.9	
15 2-Methyl-1,3-butadiene	67	2.673	2.661	0.012	97	50776	23.3	
8 1,2-Dichloro-1,1,2-trifluoroetha	117	2.832	2.673	0.159	2	168	NC	
17 Acrolein	56	2.832	2.819	0.013	50	7499	34.9	M
7 2-Chloropropane	63	2.880	2.850	0.030	1	16668	NC	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.862	2.862	0.0	61	29139	23.3	
20 1,1-Dichloroethene	96	2.868	2.874	-0.006	88	27861	22.9	
21 Acetone	43	2.972	2.966	0.006	84	42626	77.8	
22 Iodomethane	142	3.033	3.020	0.013	99	42424	18.0	
23 Carbon disulfide	76	3.063	3.057	0.006	100	84727	18.0	
138 Isopropyl alcohol	45	3.082	3.063	0.019	1	13543	188.2	M
141 3-Chloro-1-propene	76	3.203	3.191	0.012	0	12705	15.7	
24 Methyl acetate	43	3.222	3.216	0.006	98	134789	126.1	
25 Cyclopentene	67	3.222	3.216	0.006	79	93525	NC	
26 Acetonitrile	41	3.271	3.270	0.001	86	41634	179.3	
27 Methylene Chloride	84	3.331	3.325	0.006	87	32030	22.3	
* 28 TBA-d9 (IS)	65	3.368	3.368	0.0	93	101000	1000.0	
29 2-Methyl-2-propanol	59	3.435	3.429	0.006	42	24829	176.3	
31 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	89	27543	21.4	
30 Methyl tert-butyl ether	73	3.520	3.514	0.006	95	75267	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Acrylonitrile	53	3.588	3.581	0.007	93	115185	223.2	
33 Hexane	43	3.667	3.661	0.006	95	34540	27.1	
34 Isopropyl ether	45	3.874	3.868	0.006	92	115789	23.5	
35 1,1-Dichloroethane	63	3.892	3.880	0.012	91	62134	23.6	
36 Vinyl acetate	43	3.905	3.898	0.007	100	175588	48.7	
37 2-Chloro-1,3-butadiene	88	3.929	3.923	0.006	90	25182	NC	
38 Allyl alcohol	57	3.947	3.947	0.0	14	5477	NC	
39 Tert-butyl ethyl ether	59	4.161	4.148	0.013	87	89308	NC	
40 2,2-Dichloropropane	77	4.337	4.325	0.012	64	35363	16.8	
41 cis-1,2-Dichloroethene	96	4.343	4.343	0.0	86	29875	20.8	
43 2-Butanone (MEK)	72	4.368	4.362	0.006	90	14674	80.2	
42 Ethyl acetate	70	4.374	4.362	0.012	94	5661	46.8	
44 Methyl acrylate	55	4.417	4.398	0.019	66	22406	NC	
45 Propionitrile	54	4.478	4.471	0.007	95	40616	NC	
47 Chlorobromomethane	128	4.539	4.532	0.007	80	12507	20.2	
46 Tetrahydrofuran	42	4.551	4.551	0.0	40	24263	38.0	
48 Methacrylonitrile	67	4.557	4.551	0.006	93	119913	NC	
49 Chloroform	83	4.581	4.575	0.006	85	51405	23.0	
50 Cyclohexane	56	4.697	4.691	0.006	95	63171	24.2	
51 1,1,1-Trichloroethane	97	4.703	4.697	0.006	72	40447	21.9	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.703	0.006	85	47669	48.8	
53 Carbon tetrachloride	117	4.807	4.794	0.013	85	32806	21.6	
54 1,1-Dichloropropene	75	4.819	4.813	0.006	94	39629	23.6	
57 Isobutyl alcohol	43	4.929	4.910	0.019	86	20978	NC	
55 Benzene	78	4.978	4.971	0.007	97	114397	20.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.984	4.977	0.007	88	61705	51.2	
58 Isopropyl acetate	43	5.020	5.014	0.006	92	84535	23.3	
59 Tert-amyl methyl ether	73	5.032	5.026	0.006	85	77690	NC	
60 1,2-Dichloroethane	62	5.045	5.038	0.007	83	35700	22.1	
61 n-Heptane	57	5.087	5.087	0.0	95	22988	22.9	
* 62 Fluorobenzene	96	5.197	5.191	0.006	98	191966	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.355	5.349	0.006	95	164989	NC	
140 n-Butanol	56	5.410	5.410	0.0	43	11227	394.6	
64 Trichloroethene	95	5.459	5.453	0.006	91	25203	20.9	
65 Ethyl acrylate	55	5.551	5.544	0.007	92	80389	23.7	
66 Methylcyclohexane	83	5.563	5.557	0.006	91	50808	22.2	
67 1,2-Dichloropropane	63	5.679	5.678	0.001	91	31633	21.9	
68 Methyl methacrylate	100	5.721	5.721	0.0	89	11174	42.2	
* 69 1,4-Dioxane-d8	96	5.733	5.727	0.006	69	9576	1000.0	
70 n-Propyl acetate	43	5.770	5.764	0.006	82	37844	22.8	
71 1,4-Dioxane	88	5.770	5.764	0.006	12	3238	361.2	M
72 Dibromomethane	93	5.782	5.776	0.006	90	15194	20.7	
73 Dichlorobromomethane	83	5.892	5.892	0.0	95	32202	19.7	
75 2-Nitropropane	41	6.166	6.160	0.006	97	11448	NC	
76 Epichlorohydrin	57	6.258	6.252	0.006	97	35682	390.3	
77 cis-1,3-Dichloropropene	75	6.307	6.306	0.0	88	32861	16.9	
78 4-Methyl-2-pentanone (MIBK)	43	6.453	6.447	0.006	98	153127	122.5	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	97	175306	45.0	
80 Toluene	91	6.587	6.587	0.0	92	106031	20.3	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	94	28728	18.9	
82 Ethyl methacrylate	69	6.855	6.849	0.006	89	33670	NC	
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	87	18703	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
84 Tetrachloroethene	166	7.032	7.032	0.0	83	21129	20.5	
85 1,3-Dichloropropane	76	7.136	7.129	0.007	95	38095	21.2	
86 2-Hexanone	43	7.166	7.160	0.006	97	88125	112.0	
87 n-Butyl acetate	73	7.227	7.233	-0.006	98	6773	22.0	
88 Chlorodibromomethane	129	7.282	7.276	0.006	94	17240	17.6	
89 Ethylene Dibromide	107	7.386	7.385	0.001	99	18734	20.6	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	88	122202	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	89	59662	19.4	
92 Ethylbenzene	106	7.757	7.757	0.0	99	35083	19.3	
93 1,1,1,2-Tetrachloroethane	131	7.764	7.763	0.001	85	21484	18.8	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	42044	19.3	
95 n-Butyl acrylate	73	8.062	8.062	0.0	96	20142	19.6	
96 o-Xylene	106	8.099	8.099	0.0	88	45434	19.8	
97 Styrene	104	8.111	8.111	0.0	92	71359	19.1	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	89	57454	22.8	
99 Bromoform	173	8.251	8.251	0.0	92	10168	16.0	
100 Isopropylbenzene	105	8.312	8.312	0.0	97	118408	20.0	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	81	47948	45.6	
102 Camphene	41	8.452	8.452	0.0	92	3539	6.78	
104 Bromobenzene	156	8.526	8.525	0.001	94	26019	19.1	
103 1,1,2,2-Tetrachloroethane	83	8.526	8.525	0.001	79	34772	21.6	
105 N-Propylbenzene	91	8.550	8.550	0.0	97	158124	19.7	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	56	5629	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	90	8826	21.8	
107 4-Ethyltoluene	105	8.617	8.617	0.0	90	124413	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	91	109437	20.1	
109 1,3,5-Trimethylbenzene	105	8.648	8.653	-0.005	82	100421	19.2	
111 4-Chlorotoluene	91	8.690	8.684	0.006	97	92262	19.6	
110 Butyl Methacrylate	87	8.690	8.690	0.0	71	40178	18.8	
112 tert-Butylbenzene	119	8.830	8.830	0.0	88	76394	18.9	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	98	105140	19.1	
114 sec-Butylbenzene	105	8.946	8.946	0.0	98	135351	20.2	
115 4-Isopropyltoluene	119	9.019	9.019	0.0	89	104580	18.7	
116 1,3-Dichlorobenzene	146	9.038	9.038	0.0	92	54060	19.8	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	96	68919	50.0	
118 1,4-Dichlorobenzene	146	9.093	9.092	0.001	89	54507	18.9	
119 Benzyl chloride	91	9.166	9.172	-0.006	98	45178	16.0	
120 2,3-Dihydroindene	117	9.214	9.214	0.0	93	120144	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	89	73067	NC	
122 n-Butylbenzene	92	9.245	9.245	0.0	95	67795	20.8	
123 1,2-Dichlorobenzene	146	9.306	9.306	0.0	92	51892	19.7	
124 1,2,4,5-Tetramethylbenzene	119	9.696	9.696	0.0	96	88488	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.781	9.787	-0.006	82	4921	22.2	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	92	33481	NC	
127 Camphor	95	10.269	10.275	-0.006	91	8890	83.9	
128 1,2,4-Trichlorobenzene	180	10.336	10.336	0.0	92	23498	16.7	
129 Hexachlorobutadiene	225	10.409	10.409	0.0	88	13342	19.6	
130 Naphthalene	128	10.550	10.549	0.001	99	45619	18.6	
133 1,2,3-Trichlorobenzene	180	10.751	10.751	0.0	92	15277	18.7	
146 2-Methylnaphthalene	142	11.848	11.860	-0.012	13	177	NC	
134 Methylnaphthalene (total)	142	11.848	11.860	-0.012	0	177	NC	
S 136 1,2-Dichloroethene, Total	100				0		42.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
S 137 Xylenes, Total	100				0		39.1	
S 147 Total BTEX	1				0		99.6	
152 Cyclohexanone	55	9.086	9.080	0.006	0	4145	NR	

QC Flag Legend

Review Flags
M - Manually Integrated

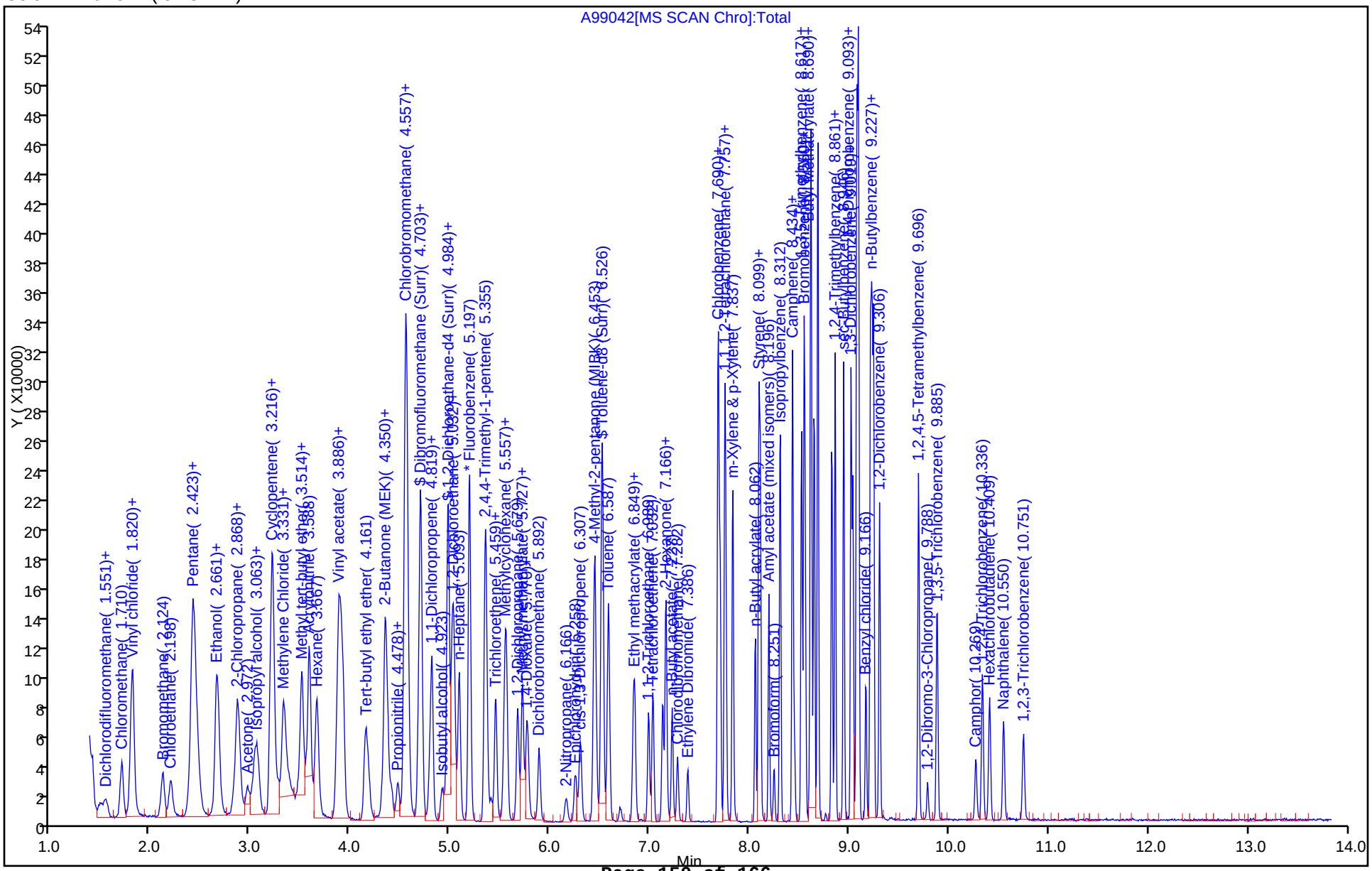
Report Date: 05-Feb-2014 10:10:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99042.D

Injection Date:	04-Feb-2014 19:17:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-70242-A-2 MS	Lab Sample ID:	460-70242-2	Worklist Smp#:	38
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	25
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

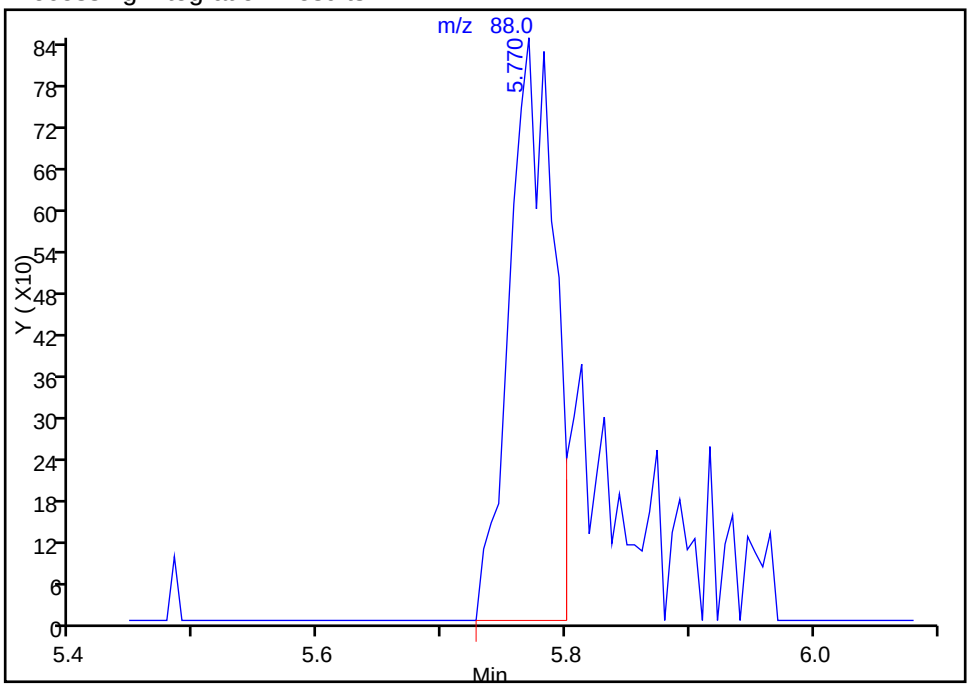
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99042.D
Injection Date: 04-Feb-2014 19:17:30 Instrument ID: CVOAMS1
Lims ID: 460-70242-A-2 MS Lab Sample ID: 460-70242-2
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 25 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

71 1,4-Dioxane, CAS: 123-91-1

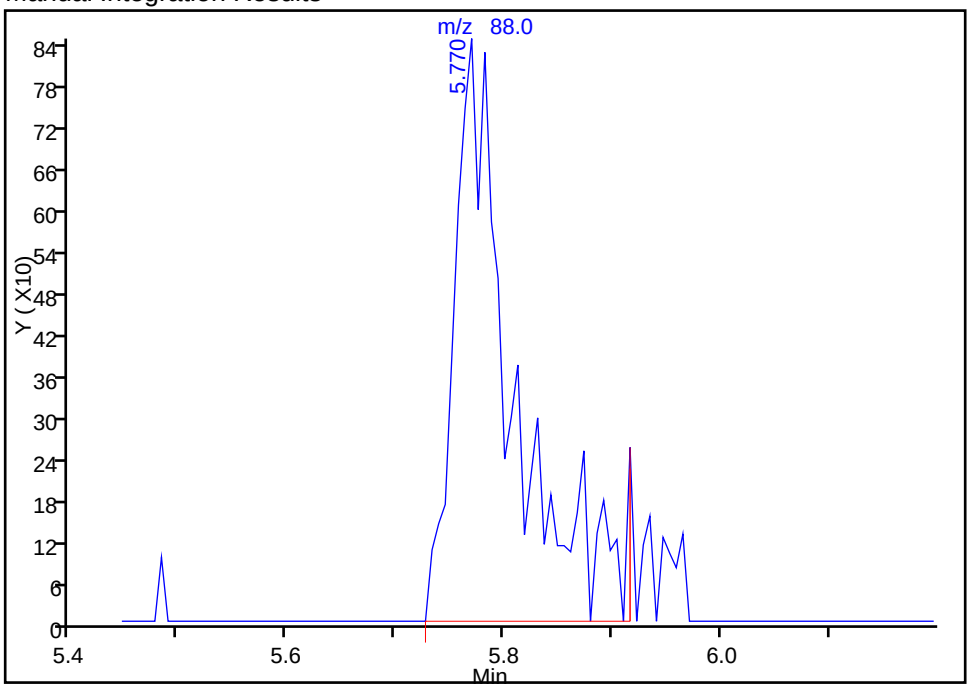
Processing Integration Results

RT: 5.77
Response: 2101
Amount: 234.3550



Manual Integration Results

RT: 5.77
Response: 3238
Amount: 361.1811



Reviewer: delpolitov, 05-Feb-2014 10:10:45
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-70372-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-70242-A-2 MSD

Matrix: Water | Lab File ID: A99043.D

Analysis Method: 624 | Date Collected: 01/24/2014 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 02/04/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 205851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	213		10	0.60
79-34-5	1,1,2,2-Tetrachloroethane	207		10	1.6
79-00-5	1,1,2-Trichloroethane	200		10	1.9
75-34-3	1,1-Dichloroethane	224		10	1.3
75-35-4	1,1-Dichloroethene	226		10	0.90
107-06-2	1,2-Dichloroethane	213		10	1.9
78-87-5	1,2-Dichloropropane	208		10	0.90
123-91-1	1,4-Dioxane	5490		500	360
78-93-3	2-Butanone	796		50	23
591-78-6	2-Hexanone	1080		50	5.0
108-10-1	MIBK	1170		50	9.9
67-64-1	Acetone	751		50	27
71-43-2	Benzene	204		10	0.80
75-27-4	Bromodichloromethane	191		10	1.2
75-25-2	Bromoform	170		10	1.9
74-83-9	Bromomethane	220		10	1.8
75-15-0	Carbon disulfide	191		10	1.3
56-23-5	Carbon tetrachloride	207		10	0.60
108-90-7	Chlorobenzene	190		10	1.1
75-00-3	Chloroethane	228		10	1.7
67-66-3	Chloroform	210		10	0.80
74-87-3	Chloromethane	247		10	1.0
156-59-2	cis-1,2-Dichloroethene	207		10	1.8
10061-01-5	cis-1,3-Dichloropropene	172		10	1.8
124-48-1	Dibromochloromethane	176		10	2.0
100-41-4	Ethylbenzene	191		10	1.0
75-09-2	Methylene Chloride	210		10	1.8
100-42-5	Styrene	189		10	1.2
127-18-4	Tetrachloroethene	195		10	1.0
108-88-3	Toluene	197		10	1.5
156-60-5	trans-1,2-Dichloroethene	212		10	1.3
10061-02-6	trans-1,3-Dichloropropene	186		10	2.4
79-01-6	Trichloroethene	207		10	0.90
75-01-4	Vinyl chloride	238		10	1.4
1330-20-7	Xylenes, Total	382		20	3.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-70242-A-2 MSD

Matrix: Water Lab File ID: A99043.D

Analysis Method: 624 Date Collected: 01/24/2014 12:00

Sample wt/vol: 5(mL) Date Analyzed: 02/04/2014 19:37

Soil Aliquot Vol: Dilution Factor: 10

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 205851 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
460-00-4	Bromofluorobenzene	96		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

Report Date: 05-Feb-2014 10:12:08 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99043.D
Lims ID: 460-70242-A-2 MSD Lab Sample ID: 460-70242-2
Client ID:
Sample Type: MSD
Inject. Date: 04-Feb-2014 19:37:30 ALS Bottle#: 26 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 460-70242-A-2 MSD
Misc. Info.: 460-0009480-039
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\8260624W_1.m
Limit Group: VOA 624 ICAL
Last Update: 05-Feb-2014 10:12:07 Calib Date: 27-Jan-2014 05:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\EDICHROM\ChromData\CVOAMS1\20140127-9219.b\A98635.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: kaewjindao Date: 05-Feb-2014 10:53:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
1 Propene	41	1.496	1.484	0.012	82	6532	NC	
3 Dichlorodifluoromethane	85	1.539	1.545	-0.006	83	35199	22.5	
4 Chloromethane	50	1.704	1.698	0.006	88	62765	24.7	
6 Vinyl chloride	62	1.813	1.807	0.006	82	56671	23.8	
5 Butadiene	54	1.807	1.807	0.0	77	55620	NC	
9 Bromomethane	94	2.124	2.112	0.012	98	28463	22.0	
10 Chloroethane	64	2.197	2.197	0.0	97	32198	22.8	
12 Dichlorofluoromethane	67	2.411	2.399	0.012	89	77467	NC	
13 Trichlorofluoromethane	101	2.429	2.411	0.018	39	50433	23.8	
11 Pentane	72	2.429	2.423	0.006	98	14703	50.5	
14 Ethyl ether	59	2.649	2.636	0.013	90	28802	23.1	
16 Ethanol	46	2.649	2.642	0.007	80	4376	1030.1	
15 2-Methyl-1,3-butadiene	67	2.667	2.661	0.006	96	54601	24.3	
8 1,2-Dichloro-1,1,2-trifluoroetha	117	2.405	2.673	-0.268	55	210	NC	
17 Acrolein	56	2.831	2.819	0.012	46	8239	39.6	
7 2-Chloropropane	63	2.966	2.850	0.116	69	214	NC	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.862	2.862	0.0	87	27930	21.7	
20 1,1-Dichloroethene	96	2.874	2.874	0.0	87	28310	22.6	
21 Acetone	43	2.966	2.966	0.0	80	42447	75.1	
22 Iodomethane	142	3.033	3.020	0.013	98	42377	18.5	
23 Carbon disulfide	76	3.069	3.057	0.012	99	92806	19.1	
138 Isopropyl alcohol	45	3.081	3.063	0.018	1	16319	233.9	M
141 3-Chloro-1-propene	76	3.197	3.191	0.006	0	14261	17.1	
24 Methyl acetate	43	3.222	3.216	0.006	98	128346	116.5	
25 Cyclopentene	67	3.222	3.216	0.006	80	93738	NC	
26 Acetonitrile	41	3.283	3.270	0.013	43	37600	167.0	
18 1-Chloropropane	63	3.277	3.319	-0.043	1	96	NC	
27 Methylene Chloride	84	3.331	3.325	0.006	90	31131	21.0	
* 28 TBA-d9 (IS)	65	3.368	3.368	0.0	92	97933	1000.0	
29 2-Methyl-2-propanol	59	3.441	3.429	0.012	48	27405	200.6	
31 trans-1,2-Dichloroethene	96	3.508	3.508	0.0	89	28116	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
30 Methyl tert-butyl ether	73	3.520	3.514	0.006	95	82672	20.5	
32 Acrylonitrile	53	3.587	3.581	0.006	93	124107	233.3	
33 Hexane	43	3.661	3.661	0.0	95	33178	25.3	
34 Isopropyl ether	45	3.880	3.868	0.012	86	117276	23.1	
35 1,1-Dichloroethane	63	3.892	3.880	0.012	93	61040	22.4	
36 Vinyl acetate	43	3.904	3.898	0.006	100	173060	46.5	
37 2-Chloro-1,3-butadiene	88	3.929	3.923	0.006	76	25080	NC	
38 Allyl alcohol	57	3.929	3.947	-0.018	29	5624	NC	
39 Tert-butyl ethyl ether	59	4.160	4.148	0.012	88	92500	NC	
40 2,2-Dichloropropane	77	4.343	4.325	0.018	54	38408	17.7	
41 cis-1,2-Dichloroethene	96	4.349	4.343	0.006	86	30574	20.7	
43 2-Butanone (MEK)	72	4.374	4.362	0.012	90	14109	79.6	
42 Ethyl acetate	70	4.374	4.362	0.012	95	5400	43.3	
44 Methyl acrylate	55	4.410	4.398	0.012	84	24457	NC	
45 Propionitrile	54	4.471	4.471	0.0	96	41923	NC	
47 Chlorobromomethane	128	4.538	4.532	0.006	77	11731	18.3	
46 Tetrahydrofuran	42	4.545	4.551	-0.006	31	23728	38.4	
48 Methacrylonitrile	67	4.557	4.551	0.006	94	112766	NC	
49 Chloroform	83	4.581	4.575	0.006	84	48457	21.0	
50 Cyclohexane	56	4.697	4.691	0.006	96	60589	22.5	
51 1,1,1-Trichloroethane	97	4.709	4.697	0.012	68	40494	21.3	
$ 52 Dibromofluoromethane (Surr)	113	4.709	4.703	0.006	85	51685	51.3	
53 Carbon tetrachloride	117	4.801	4.794	0.007	84	32405	20.7	
54 1,1-Dichloropropene	75	4.819	4.813	0.006	90	37932	21.9	
57 Isobutyl alcohol	43	4.916	4.910	0.006	86	23727	NC	
55 Benzene	78	4.977	4.971	0.006	96	115870	20.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.983	4.977	0.006	91	66991	53.9	
58 Isopropyl acetate	43	5.020	5.014	0.006	92	89043	23.8	
59 Tert-amyl methyl ether	73	5.026	5.026	0.0	85	79751	NC	
60 1,2-Dichloroethane	62	5.044	5.038	0.006	88	35485	21.3	
61 n-Heptane	57	5.093	5.087	0.006	92	23492	22.7	
* 62 Fluorobenzene	96	5.197	5.191	0.006	98	197914	50.0	
63 2,4,4-Trimethyl-1-pentene	57	5.355	5.349	0.006	95	161107	NC	
140 n-Butanol	56	5.410	5.410	0.0	68	16207	587.5	
64 Trichloroethene	95	5.459	5.453	0.006	90	25724	20.7	
65 Ethyl acrylate	55	5.550	5.544	0.006	92	78755	22.5	
66 Methylcyclohexane	83	5.563	5.557	0.006	93	50589	21.5	
67 1,2-Dichloropropane	63	5.678	5.678	0.0	90	30925	20.8	
68 Methyl methacrylate	100	5.727	5.721	0.006	79	11212	41.1	
* 69 1,4-Dioxane-d8	96	5.721	5.727	-0.006	86	8633	1000.0	
70 n-Propyl acetate	43	5.770	5.764	0.006	80	36200	21.2	
71 1,4-Dioxane	88	5.764	5.764	0.0	6	4437	549.0	M
72 Dibromomethane	93	5.776	5.776	0.0	87	15720	20.8	
73 Dichlorobromomethane	83	5.892	5.892	0.0	94	32206	19.1	
75 2-Nitropropane	41	6.166	6.160	0.006	93	11826	NC	
76 Epichlorohydrin	57	6.258	6.252	0.006	98	35530	373.8	
77 cis-1,3-Dichloropropene	75	6.306	6.306	0.0	85	34808	17.2	
78 4-Methyl-2-pentanone (MIBK)	43	6.453	6.447	0.006	98	152142	117.1	
$ 79 Toluene-d8 (Surr)	98	6.526	6.520	0.006	97	193539	47.8	
80 Toluene	91	6.587	6.587	0.0	93	106959	19.7	
81 trans-1,3-Dichloropropene	75	6.837	6.837	0.0	96	29394	18.6	
82 Ethyl methacrylate	69	6.849	6.849	0.0	88	35086	NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.989	6.989	0.0	88	19314	20.0	
84 Tetrachloroethene	166	7.038	7.032	0.006	84	20893	19.5	
85 1,3-Dichloropropane	76	7.129	7.129	0.0	96	36950	19.8	
86 2-Hexanone	43	7.166	7.160	0.006	82	88595	108.3	
87 n-Butyl acetate	73	7.227	7.233	-0.006	98	6778	21.2	
88 Chlorodibromomethane	129	7.282	7.276	0.006	95	17988	17.6	
89 Ethylene Dibromide	107	7.385	7.385	0.0	96	19152	20.2	
* 90 Chlorobenzene-d5	117	7.690	7.690	0.0	88	127045	50.0	
91 Chlorobenzene	112	7.709	7.709	0.0	90	60929	19.0	
92 Ethylbenzene	106	7.757	7.757	0.0	99	36050	19.1	
93 1,1,1,2-Tetrachloroethane	131	7.763	7.763	0.0	83	22380	18.9	
94 m-Xylene & p-Xylene	106	7.837	7.837	0.0	0	42680	18.9	
95 n-Butyl acrylate	73	8.062	8.062	0.0	95	19648	18.4	
96 o-Xylene	106	8.099	8.099	0.0	88	46199	19.3	
97 Styrene	104	8.111	8.111	0.0	91	73557	18.9	
98 Amyl acetate (mixed isomers)	43	8.196	8.196	0.0	91	56614	21.6	
99 Bromoform	173	8.251	8.251	0.0	94	11211	17.0	
100 Isopropylbenzene	105	8.312	8.312	0.0	97	120682	19.6	
$ 101 4-Bromofluorobenzene	174	8.434	8.434	0.0	81	52241	47.8	
102 Camphene	41	8.452	8.452	0.0	84	3212	5.92	
104 Bromobenzene	156	8.525	8.525	0.0	92	26377	18.6	
103 1,1,2,2-Tetrachloroethane	83	8.525	8.525	0.0	84	34697	20.7	
105 N-Propylbenzene	91	8.550	8.550	0.0	92	162278	19.5	
139 trans-1,4-Dichloro-2-butene	53	8.562	8.562	0.0	57	5701	NC	
106 1,2,3-Trichloropropane	110	8.562	8.562	0.0	89	8885	21.1	
107 4-Ethyltoluene	105	8.617	8.617	0.0	93	130078	NC	
108 2-Chlorotoluene	91	8.623	8.623	0.0	96	107272	19.0	
109 1,3,5-Trimethylbenzene	105	8.653	8.653	0.0	82	104359	19.2	
111 4-Chlorotoluene	91	8.690	8.684	0.006	97	96855	19.8	
110 Butyl Methacrylate	87	8.690	8.690	0.0	69	40641	18.3	
112 tert-Butylbenzene	119	8.830	8.830	0.0	88	77892	18.5	
113 1,2,4-Trimethylbenzene	105	8.861	8.861	0.0	98	107379	18.8	
114 sec-Butylbenzene	105	8.946	8.946	0.0	98	137829	19.8	
115 4-Isopropyltoluene	119	9.019	9.019	0.0	91	107769	18.6	
116 1,3-Dichlorobenzene	146	9.038	9.038	0.0	91	55386	19.5	
* 117 1,4-Dichlorobenzene-d4	152	9.080	9.080	0.0	96	71626	50.0	
118 1,4-Dichlorobenzene	146	9.092	9.092	0.0	88	57454	19.1	
119 Benzyl chloride	91	9.172	9.172	0.0	97	47387	16.1	
120 2,3-Dihydroindene	117	9.214	9.214	0.0	93	125164	NC	
121 p-Diethylbenzene	119	9.233	9.233	0.0	91	75321	NC	
122 n-Butylbenzene	92	9.245	9.245	0.0	96	68302	20.1	
123 1,2-Dichlorobenzene	146	9.306	9.306	0.0	92	55473	20.3	
124 1,2,4,5-Tetramethylbenzene	119	9.696	9.696	0.0	97	96151	NC	
125 1,2-Dibromo-3-Chloropropane	75	9.787	9.787	0.0	88	5542	24.1	
126 1,3,5-Trichlorobenzene	180	9.885	9.885	0.0	94	37831	NC	
127 Camphor	95	10.275	10.275	0.0	92	13126	119.2	
128 1,2,4-Trichlorobenzene	180	10.342	10.336	0.006	89	30299	20.7	
129 Hexachlorobutadiene	225	10.415	10.409	0.006	89	14223	20.1	
130 Naphthalene	128	10.549	10.549	0.0	98	71085	28.5	
133 1,2,3-Trichlorobenzene	180	10.751	10.751	0.0	92	23223	27.4	
S 136 1,2-Dichloroethene, Total	100				0		41.9	
S 137 Xylenes, Total	100				0		38.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
S 147 Total BTEX	1				0		97.4	

QC Flag Legend

Review Flags
M - Manually Integrated

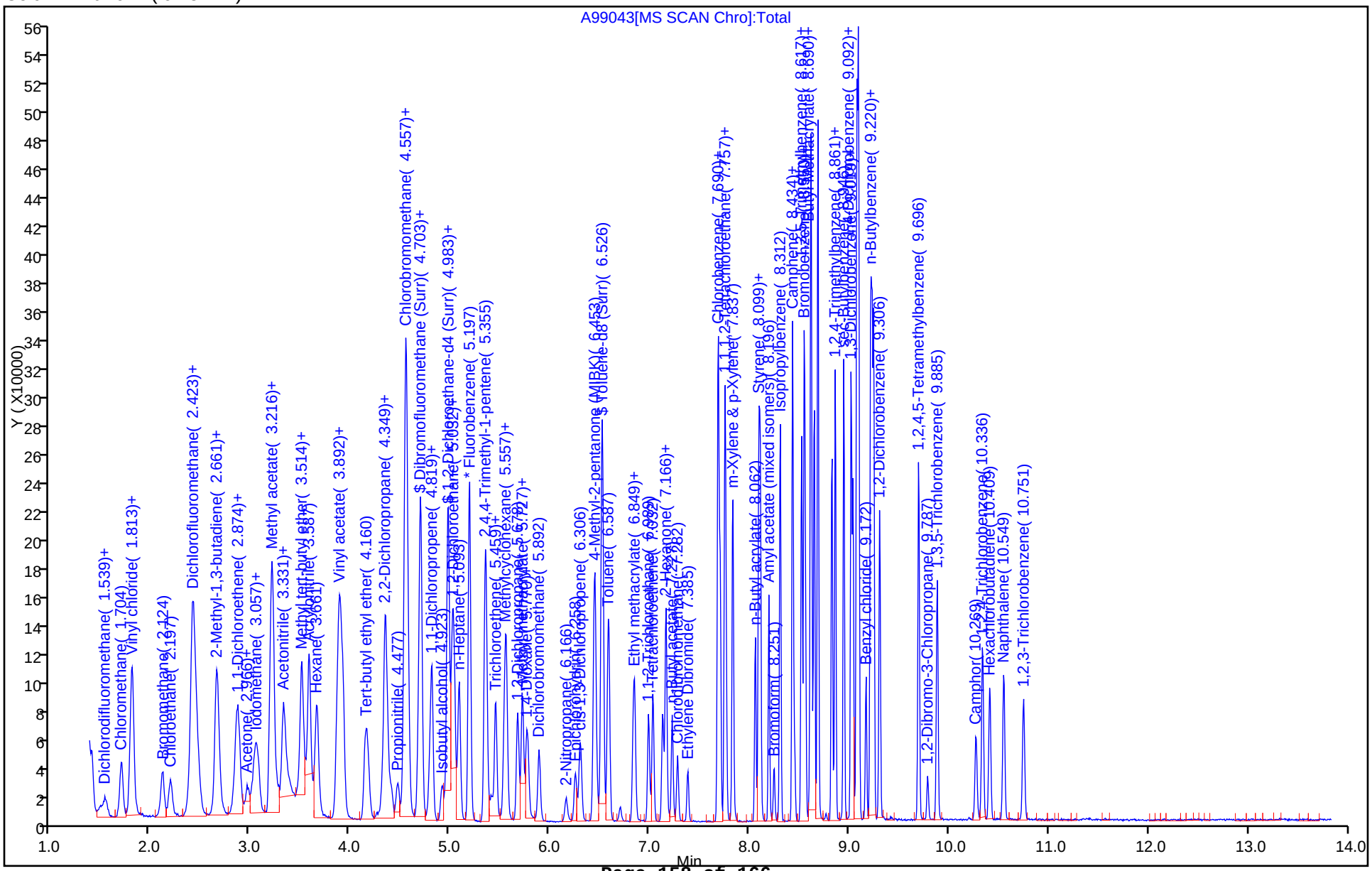
Report Date: 05-Feb-2014 10:12:08 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99043.D

Injection Date:	04-Feb-2014 19:37:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-70242-A-2 MSD	Lab Sample ID:	460-70242-2	Worklist Smp#:	39
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	26
Method:	8260624W_1	Limit Group:	VOA 624 ICAL		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

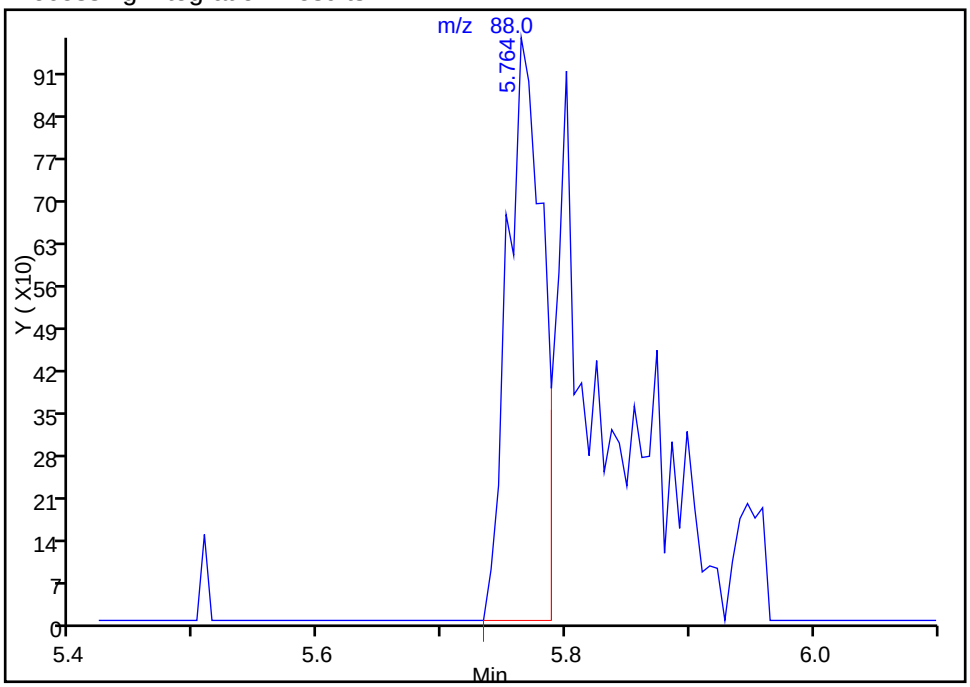
TestAmerica Edison

Data File: \\EDICHROM\ChromData\CVOAMS1\20140204-9480.b\A99043.D
Injection Date: 04-Feb-2014 19:37:30 Instrument ID: CVOAMS1
Lims ID: 460-70242-A-2 MSD Lab Sample ID: 460-70242-2
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 26 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: 8260624W_1 Limit Group: VOA 624 ICAL
Column: Rtx-624 (0.25 mm) Detector MS SCAN

71 1,4-Dioxane, CAS: 123-91-1

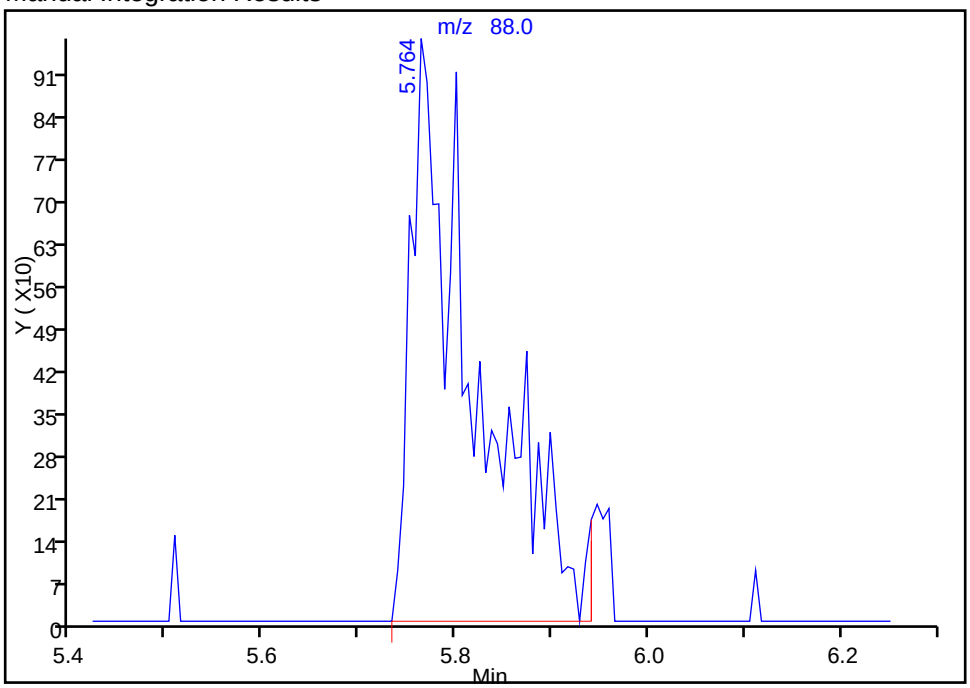
Processing Integration Results

RT: 5.76
Response: 1899
Amount: 234.9608



Manual Integration Results

RT: 5.76
Response: 4437
Amount: 548.9843



Reviewer: delpolitov, 05-Feb-2014 10:12:07
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Instrument ID: CVOAMS1 Start Date: 01/27/2014 02:11

Analysis Batch Number: 204517 End Date: 01/28/2014 01:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-204517/1		01/27/2014 02:11	1	A98625.D	Rtx-624 0.25(mm)
STD20 460-204517/3 ICIS		01/27/2014 02:53	1	A98627.D	Rtx-624 0.25(mm)
STD1 460-204517/7 IC		01/27/2014 04:14	1	A98631.D	Rtx-624 0.25(mm)
STD5 460-204517/8 IC		01/27/2014 04:34	1	A98632.D	Rtx-624 0.25(mm)
STD50 460-204517/9 IC		01/27/2014 04:55	1	A98633.D	Rtx-624 0.25(mm)
STD200 460-204517/10 IC		01/27/2014 05:15	1	A98634.D	Rtx-624 0.25(mm)
STD500 460-204517/11 IC		01/27/2014 05:35	1	A98635.D	Rtx-624 0.25(mm)
ICV 460-204517/19		01/27/2014 11:57	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 12:17	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 13:31	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 13:51	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 14:12	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 14:33	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 14:53	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 15:13	10		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 15:33	10		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 16:53	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 17:14	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 17:34	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 17:54	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 18:14	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 18:33	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 18:53	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 19:13	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 19:33	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 19:54	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 20:14	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 20:35	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 20:56	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 21:16	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 21:36	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 21:57	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 22:17	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 22:37	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 23:38	1		Rtx-624 0.25(mm)
ZZZZZ		01/27/2014 23:59	1		Rtx-624 0.25(mm)
ZZZZZ		01/28/2014 00:19	1		Rtx-624 0.25(mm)
ZZZZZ		01/28/2014 00:40	1		Rtx-624 0.25(mm)
ZZZZZ		01/28/2014 01:00	1		Rtx-624 0.25(mm)
ZZZZZ		01/28/2014 01:20	1		Rtx-624 0.25(mm)

624

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Instrument ID: CVOAMS1 Start Date: 02/04/2014 06:04

Analysis Batch Number: 205851 End Date: 02/05/2014 02:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-205851/1		02/04/2014 06:04	1	A99005.D	Rtx-624 0.25(mm)
CCVIS 460-205851/3		02/04/2014 06:46	1	A99007.D	Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 07:13	1		Rtx-624 0.25(mm)
MB 460-205851/7		02/04/2014 08:27	1	A99011.D	Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 08:56	20		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 09:16	10		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 09:49	10		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 10:09	10		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 11:14	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 11:34	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 11:54	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 12:16	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 12:36	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 12:55	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 13:15	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 13:35	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 13:55	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 14:36	2		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 14:57	5		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 15:17	10		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 15:37	2		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 15:57	20		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 16:17	50		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 16:37	10		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 16:58	200		Rtx-624 0.25(mm)
LCS 460-205851/33		02/04/2014 17:38	1	A99037.D	Rtx-624 0.25(mm)
MB 460-205851/36		02/04/2014 18:37	1	A99040.D	Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 18:57	1		Rtx-624 0.25(mm)
460-70242-A-2 MS		02/04/2014 19:17	10	A99042.D	Rtx-624 0.25(mm)
460-70242-A-2 MSD		02/04/2014 19:37	10	A99043.D	Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 20:36	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 20:56	1		Rtx-624 0.25(mm)
460-70372-1	TW-1	02/04/2014 21:16	1	A99048.D	Rtx-624 0.25(mm)
460-70372-2	TW-2	02/04/2014 21:36	1	A99049.D	Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 21:55	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 22:15	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 22:36	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 22:57	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 23:17	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 23:37	1		Rtx-624 0.25(mm)
ZZZZZ		02/04/2014 23:57	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 00:16	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 00:37	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 00:57	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 01:17	1		Rtx-624 0.25(mm)

624

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-70372-1

SDG No.:

Instrument ID: CVOAMS1 Start Date: 02/04/2014 06:04

Analysis Batch Number: 205851 End Date: 02/05/2014 02:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/05/2014 01:39	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 01:58	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 02:18	1		Rtx-624 0.25(mm)
ZZZZZ		02/05/2014 02:58	2		Rtx-624 0.25(mm)

624

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Bruce Manganiello	Samplers Name (Printed) Bruce Manganiello	Site/Project Identification EC, SP 1192
Company ECM, Inc.	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program:
Address 349 Route 206	Analysis Turnaround Time: Standard ☐	
City Hillsborough State NJ	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☑ Other ☐	
Phone 908-874-0990 Fax 0920		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 70372

Sample Identification	Date	Time	Matrix	No. of Cont.	TCL - VOC + 15 w/ Search for MtBE and 14-dioxane	Sample Numbers
TW-1	1/28/14	0945	water	2	✓	-1
TW-2	1/28/14	1015	water	3	✓ Hold Pending Results of TW-1	-2

460-70372 Chain of Custody

5-Day RUSH

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water: 2

Special Instructions TW-1 one week TAT. TW-2 pend in results of TW-1 analysis

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	ECM, Inc	1/29/14	1)	ECM
Relinquished by 2)	Company ECM	Date / Time 1/29/14 1000	Received by 2)	Company TAEd 1/29/14 10:00
Relinquished by 3)	Company	Date / Time	Received by 3)	Company IR#4 0/0.1°C
Relinquished by 4)	Company	Date / Time	Received by 4)	Company NCS

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578)

TestAmerica Edison Receipt Temperature and pH Log

Job Number: 170372

Number of Coolers: 1 IR Gun # 4

Temp. Cooler #1 (Deg C) (Raw/Corrected) 0/0.1°C

Temp. Cooler #2 (Deg C) (Raw/Corrected) _____

Temp. Cooler #3 (Deg C) (Raw/Corrected) _____

Temp. Cooler #4 (Deg C) (Raw/Corrected) _____

Temp. Cooler #5 (Deg C) (Raw/Corrected) _____

Temp. Cooler #6 (Deg C) (Raw/Corrected) _____

Temp. Cooler #7 (Deg C) (Raw/Corrected) _____

Temp. Cooler #8 (Deg C) (Raw/Corrected) _____

Temp. Cooler #9 (Deg C) (Raw/Corrected) _____

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the 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: KR Date: 11/29/14

Login Sample Receipt Checklist

Client: ECM, Inc.

Job Number: 460-70372-1

Login Number: 70372

List Source: TestAmerica Edison

List Number: 1

Creator: Lysy, Susan

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1°C IR#4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	See NCM
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").	False	See NCM
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

APPENDIX 2

UVOST® AND TARGOST® SAMPLE LOGS

Dakota Technologies TarGOST Reference

2013-08-09

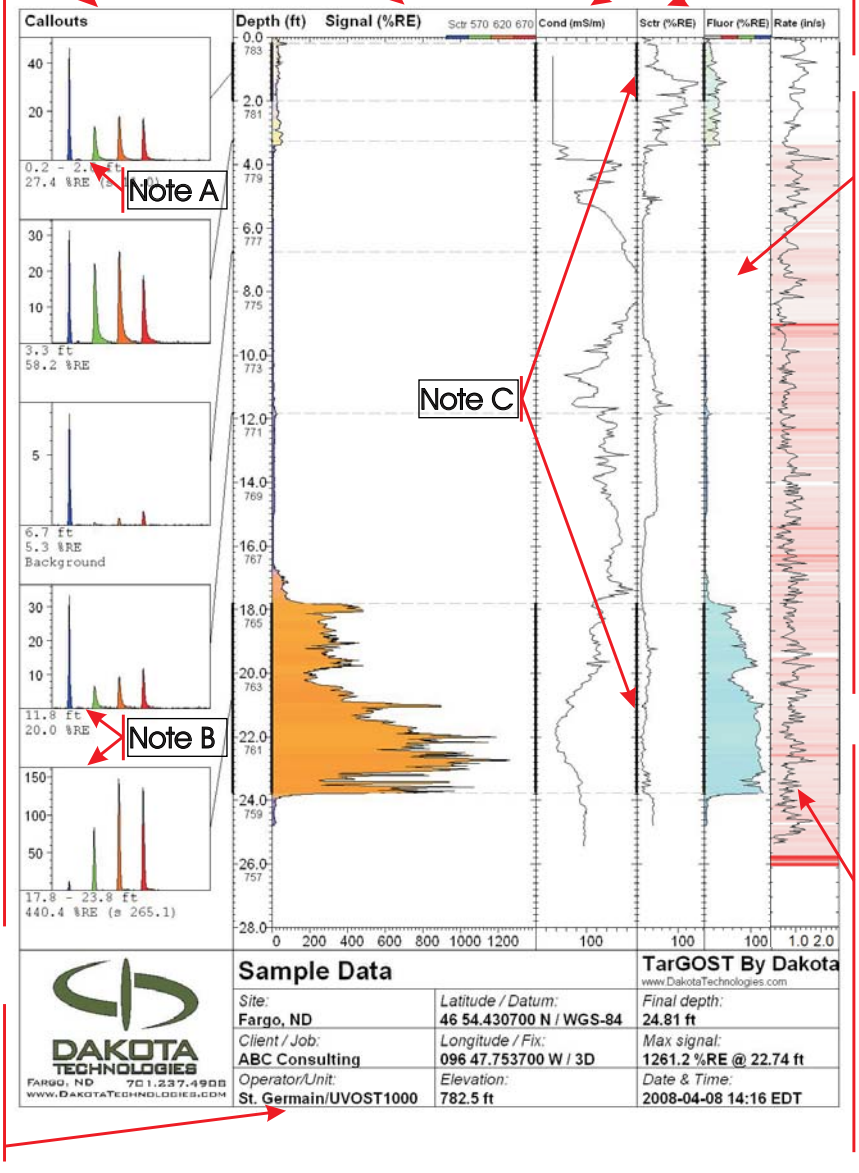
Main Plot :
Signal (total fluorescence) versus depth where signal is relative to the Reference Emitter (RE). For TarGOST data, the signal is scatter corrected due to tar's non-linear fluorescence with increasing concentration. The fill color is based on relative contribution of each channel's area to the total waveform area (see callout waveform). The channel-to-color relationship and corresponding center wavelengths are given in the upper right corner of the main plot. For TarGOST data, the first channel (blue) is always representative of the scatter.

Callouts :
Waveforms from selected depths or depth ranges showing the full mullti-wavelength waveform for that depth.

Each colored area peak is due to light at the four wavelengths. These four peaks / wavelengths are often referred to as channels.

Various products will have a unique waveform fingerprint due to the relative amplitude of the four channels or broadening of one or more channels in the time-domain.

Basic waveform statistics and any operator notes are given below the callout.



Info Box :
Contains pertinent log info including name and location.

Conductivity Plot :
The Electrical Conductivity (EC) of the soil can be logged simultaneously with the TarGOST data. EC often provides insight into consolidated versus unconsolidated stratigraphy.

Scatter Plot :
Scatter versus depth where intensity is relative to the scatter level of the Reference Emitter.

Fluorescence Plot :
A plot of the fluorescence signal alone versus depth. The scatter channel is not used in the calculation of signal intensity or coloring. Note the coloring key at the top of the plot. Intensity unit is percent of Reference Emitter fluorescence. Varying soil or product can often be visually pulled-out from the background based on the fill color of this plot if scatter dominates the color of the main plot.

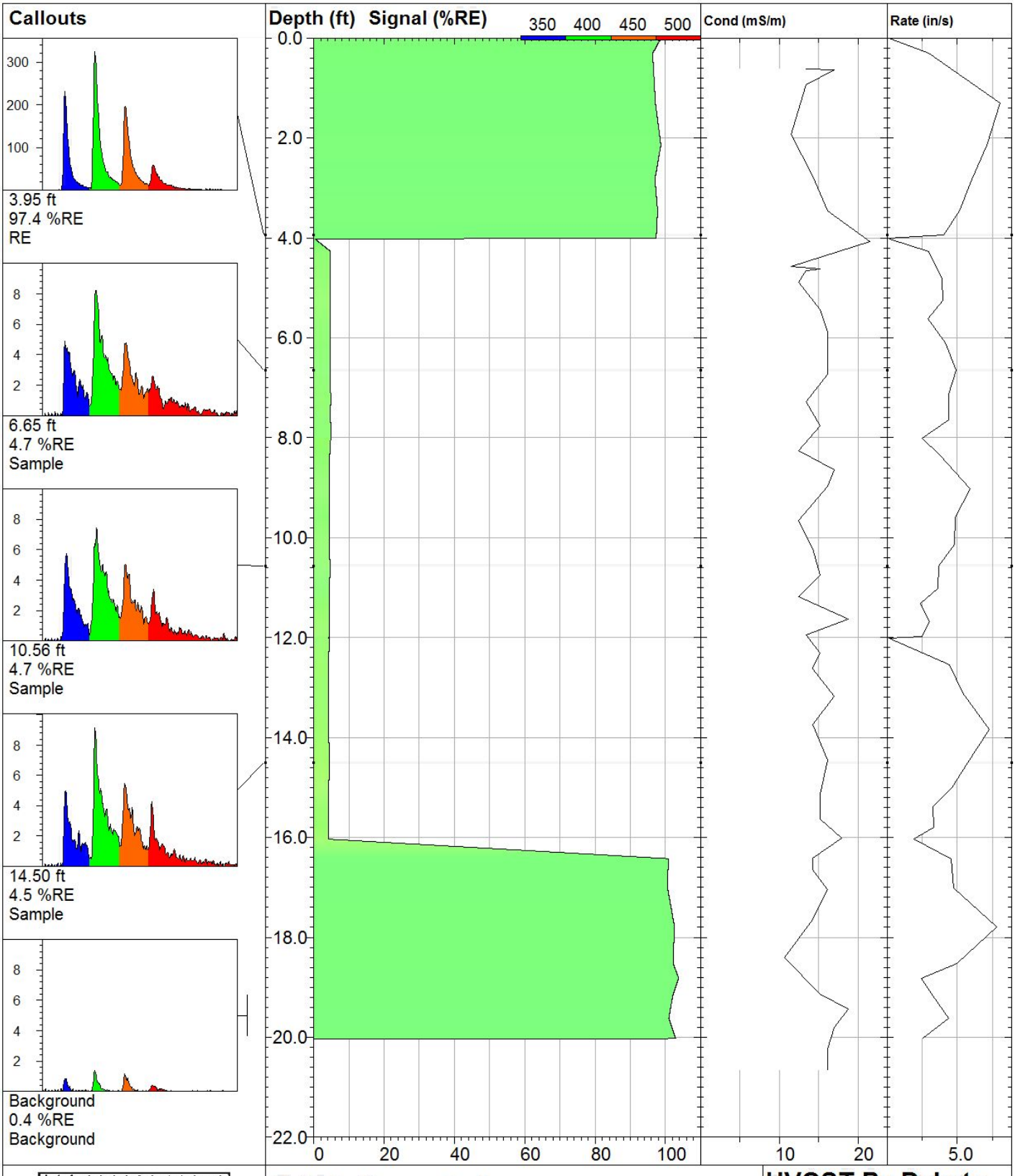
Rate Plot :
The rate of probe advancement. Less than 0.8in (2cm) per second is preferred.
The red fill is the hammer counts, the number of strikes used to advance the probe. The rate and hammer counts can be indicative of various soil conditions.

Note A :
Time is along the x axis. No scale is given, but it is constant and is roughly 250ns wide.

The y axis is in mV and directly corresponds to the amount of light striking the photodetector.

Note B :
These two waveforms show two different products, each with a unique waveform.

Note C :
The top zone has moderate fluorescence, but high scatter while the bottom zone has high fluorescence and low scatter. Note how this impacts the main signal plot.

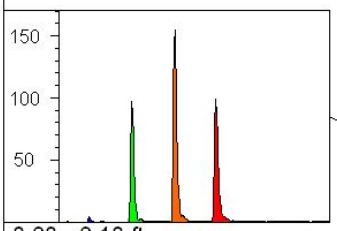


ECM_Sample1

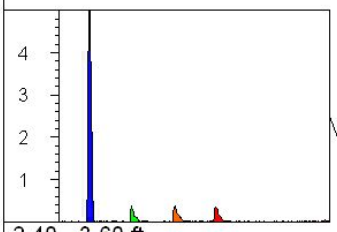
UVOST By Dakota
www.DakotaTechnologies.com

Site: **ECM**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.03 ft**
Client / Job: **ECM / Sample1**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **103.7 %RE @ 18.82 ft**
Operator / Unit: **JD / UVOST1317**	*Elevation:* **Unavailable**	*Date & Time:* **2013-07-09 13:42 EDT**

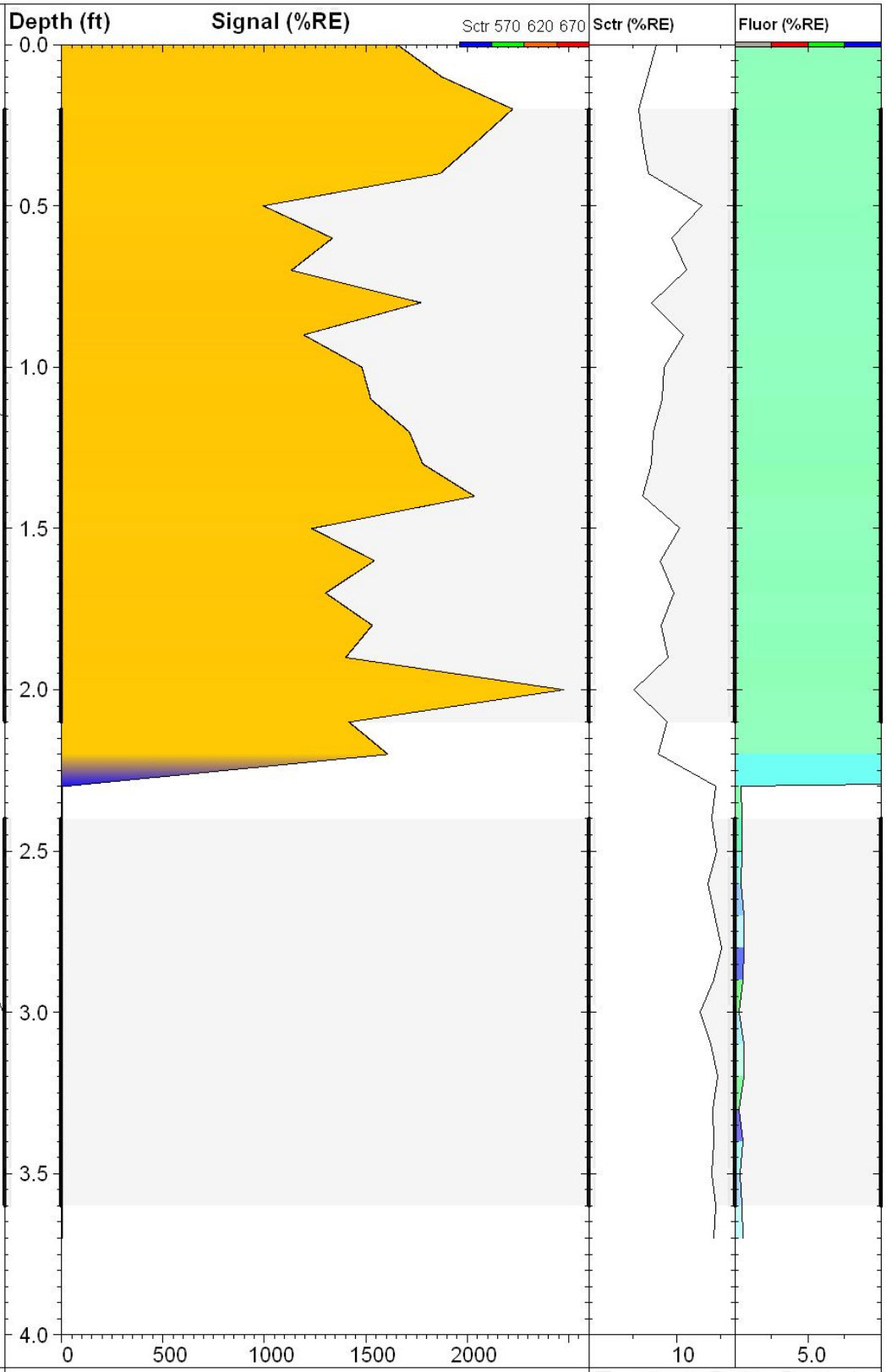
Callouts



0.20 - 2.10 ft
1515.2 %RE (s 386.3)
NAPL



2.40 - 3.60 ft
3.4 %RE (s 0.8)
Clean Window



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NAPL

TarGOST By Dakota
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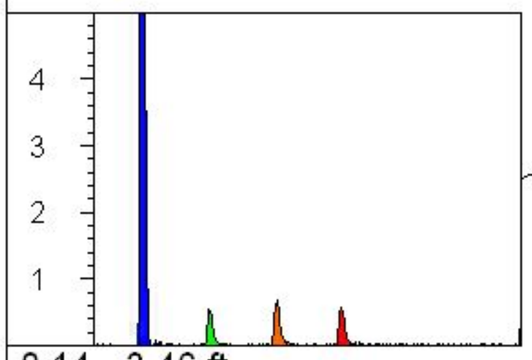
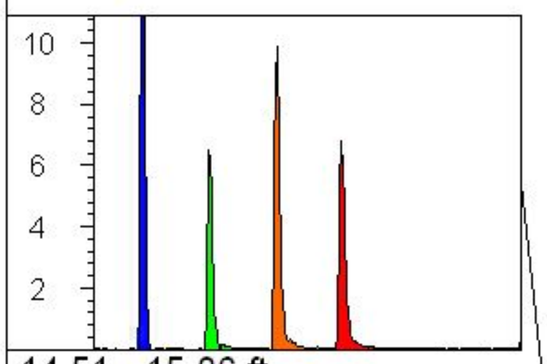
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.70 ft**
Client / Job: **ZEBRA /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2474.1 %RE @ 2.00 ft**
Operator / Unit: **T. Rudolph / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2013-08-13 16:53 EDT**

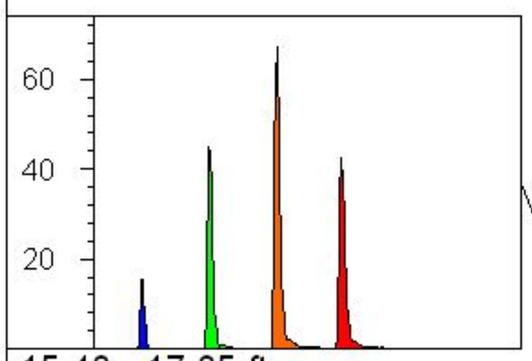
Callouts



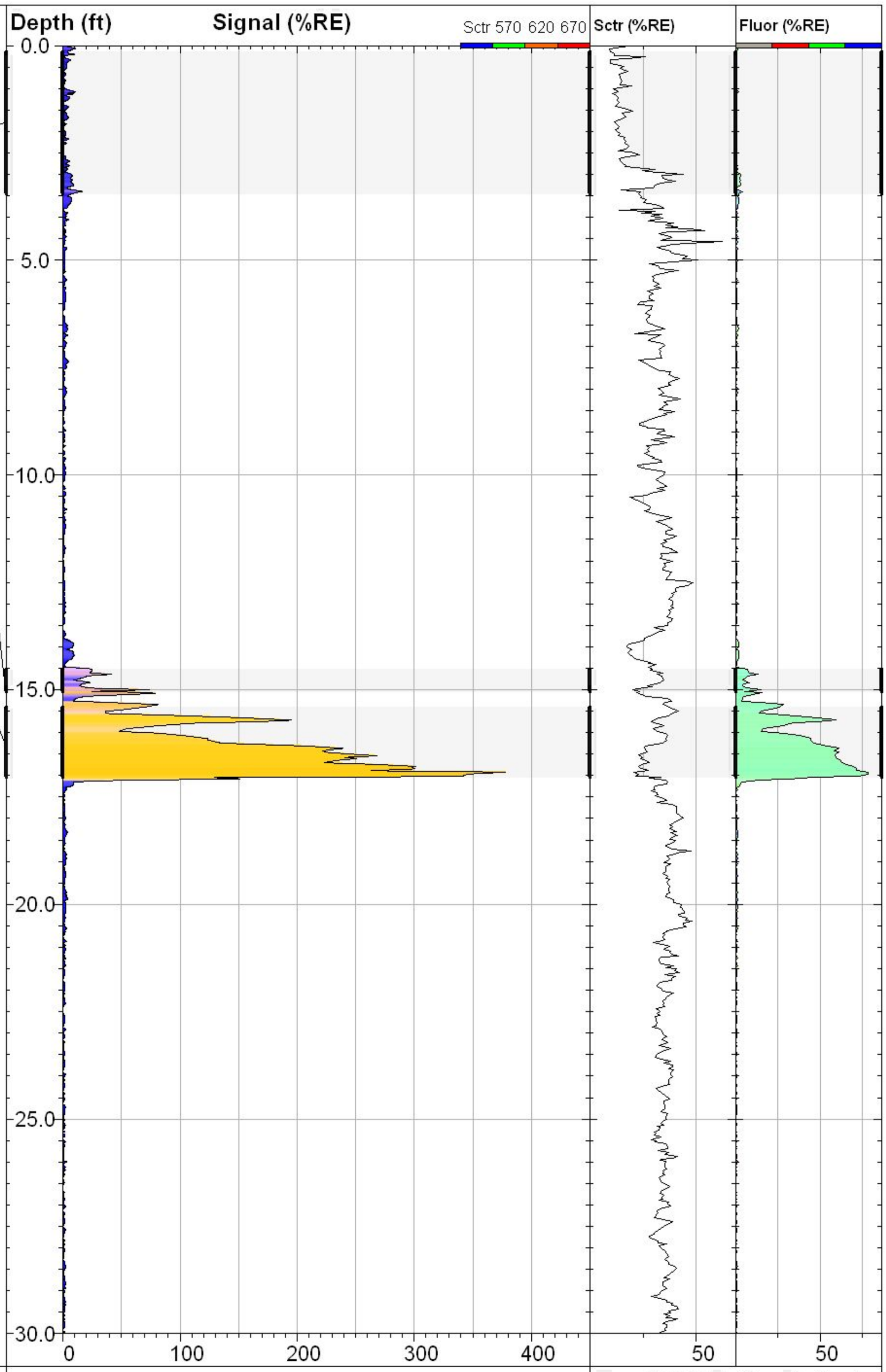
0.14 - 3.46 ft
3.7 %RE (s 3.2)
Pre-cleared to 3'



14.51 - 15.06 ft
24.8 %RE (s 17.4)



15.40 - 17.05 ft
167.3 %RE (s 98.2)



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TG01E

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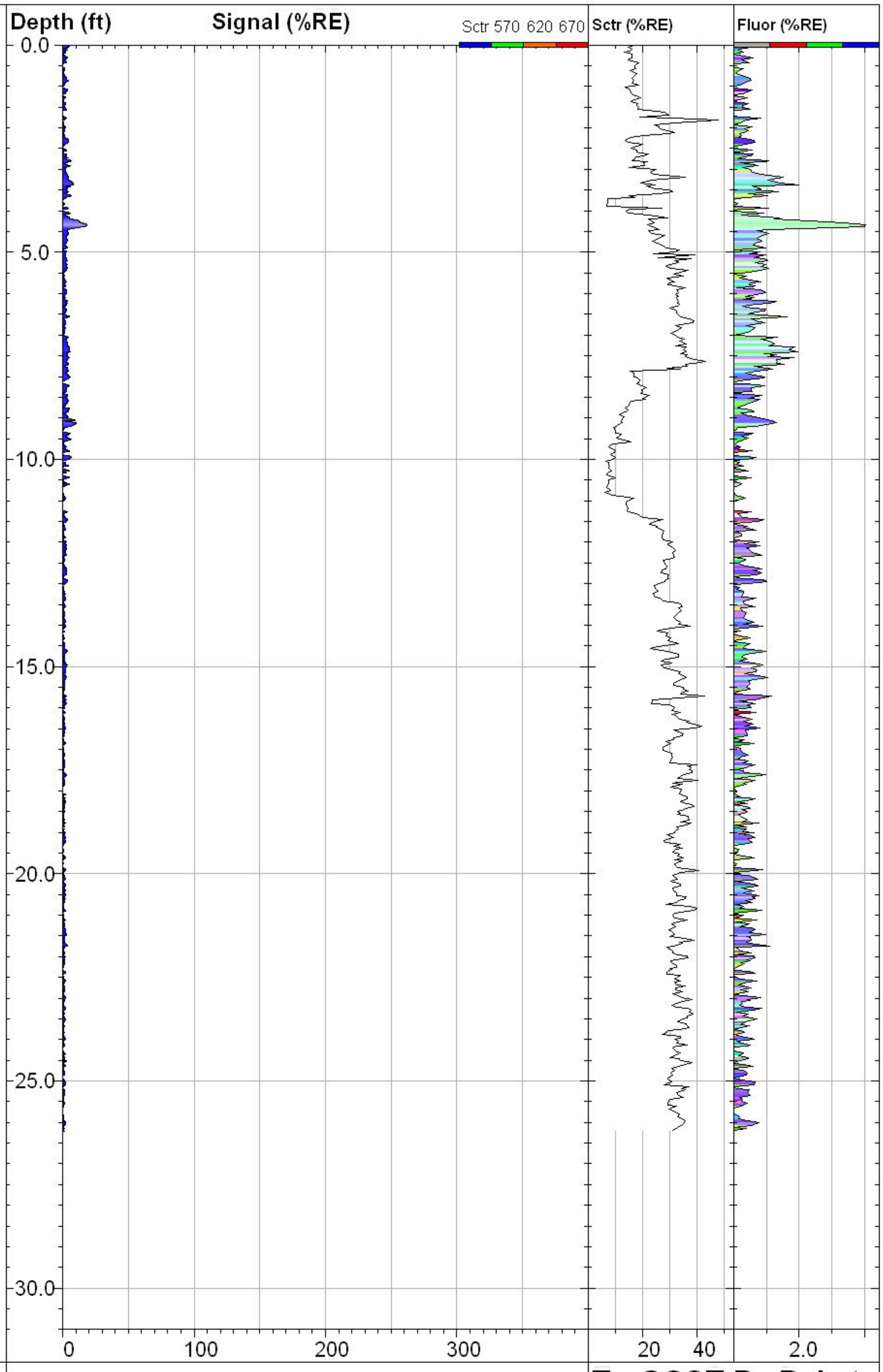
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **380.0 %RE @ 16.92 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-27 10:21 CST**

Callouts

Pre-cleared to 3'



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TG02E

TarGOST By Dakota
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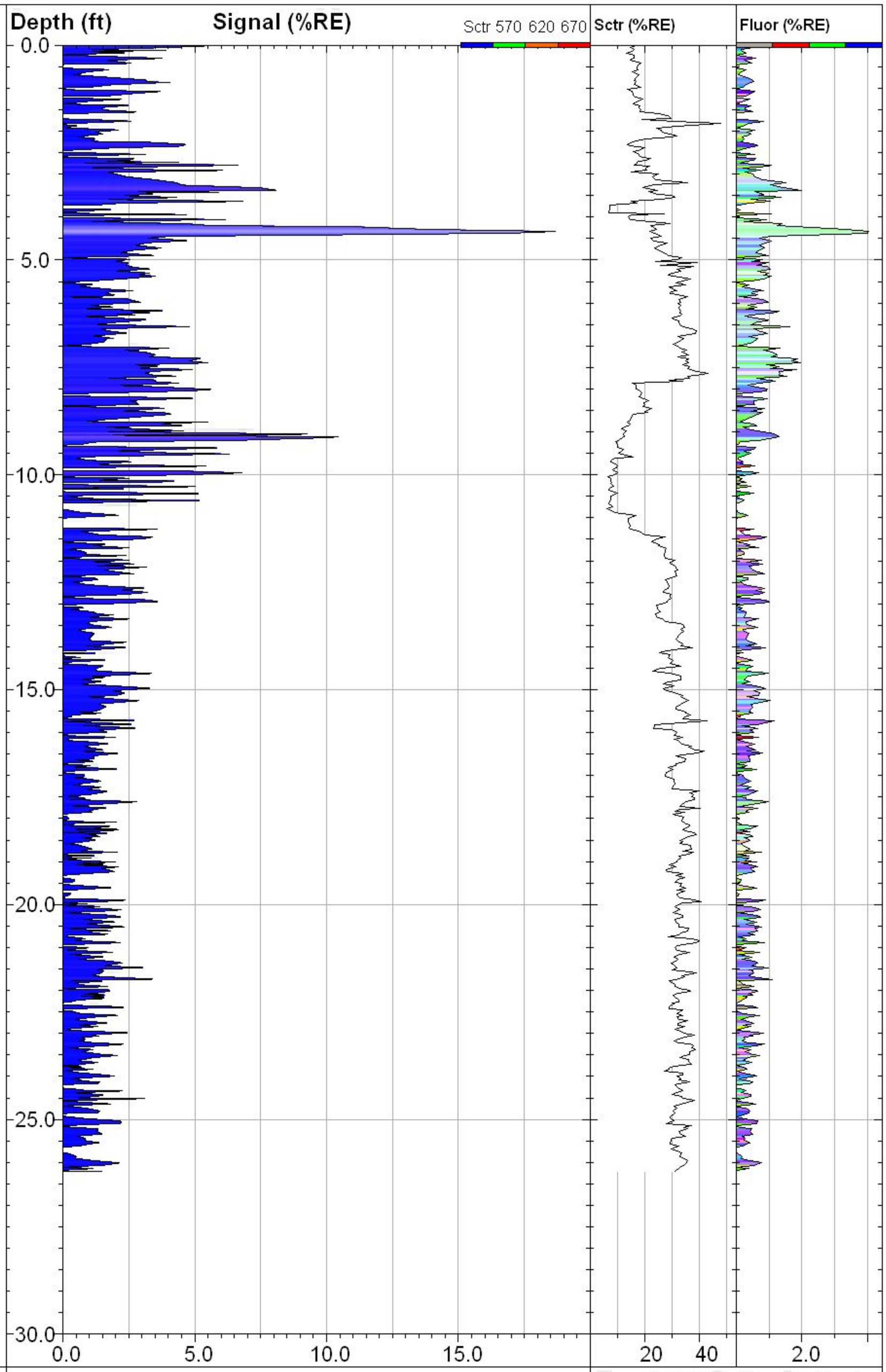
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.22 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **18.7 %RE @ 4.33 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-27 11:02 CST**

Callouts

Pre-cleared to 3'



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TG02E

TarGOST By Dakota
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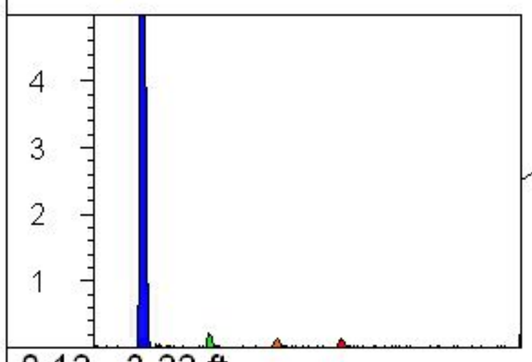
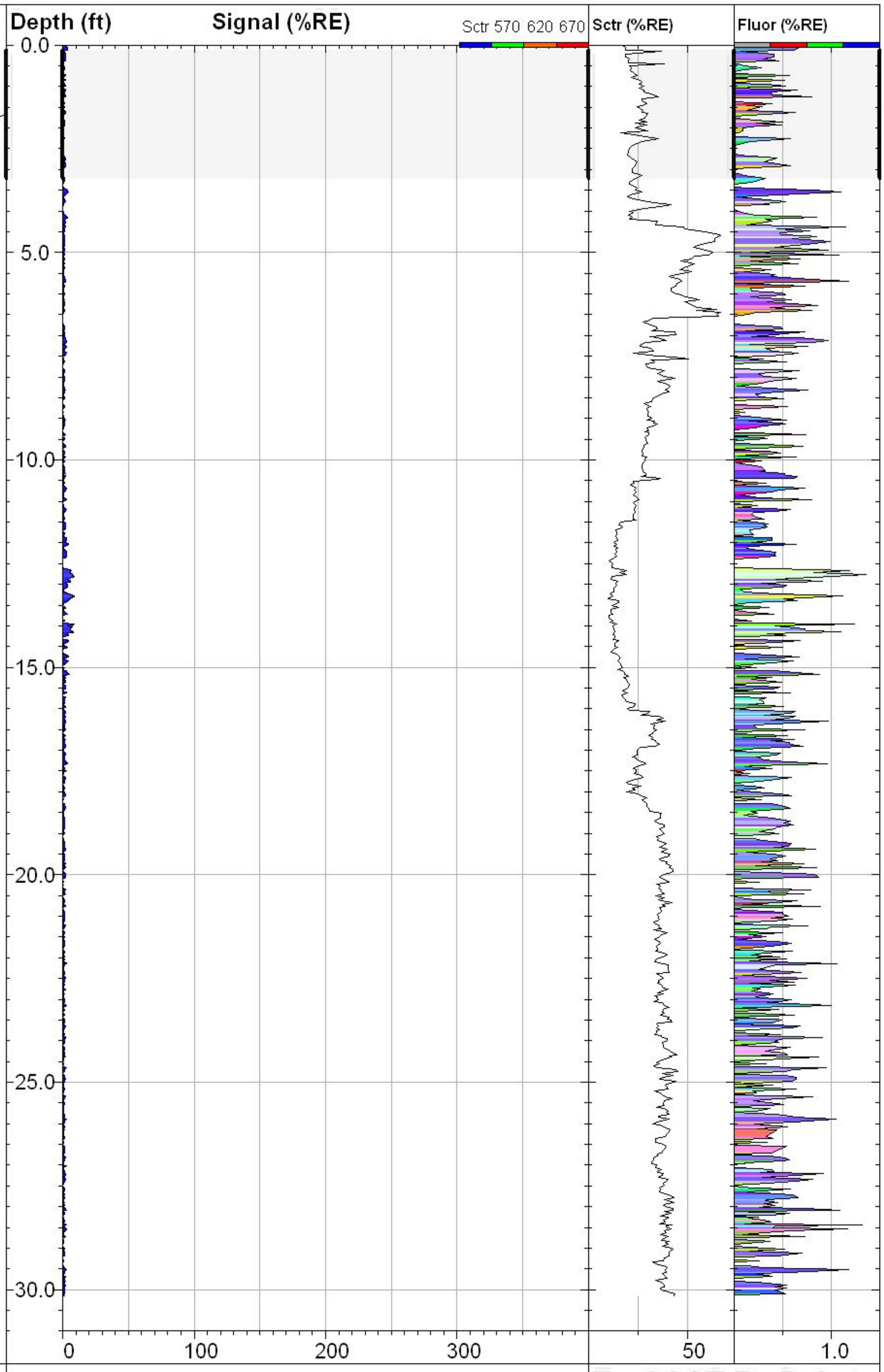
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.22 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **18.7 %RE @ 4.33 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-27 11:02 CST**

Callouts



0.12 - 3.22 ft
0.8 %RE (s 1.2)
Pre-cleared to 3'



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TG03E

TarGOST By Dakota
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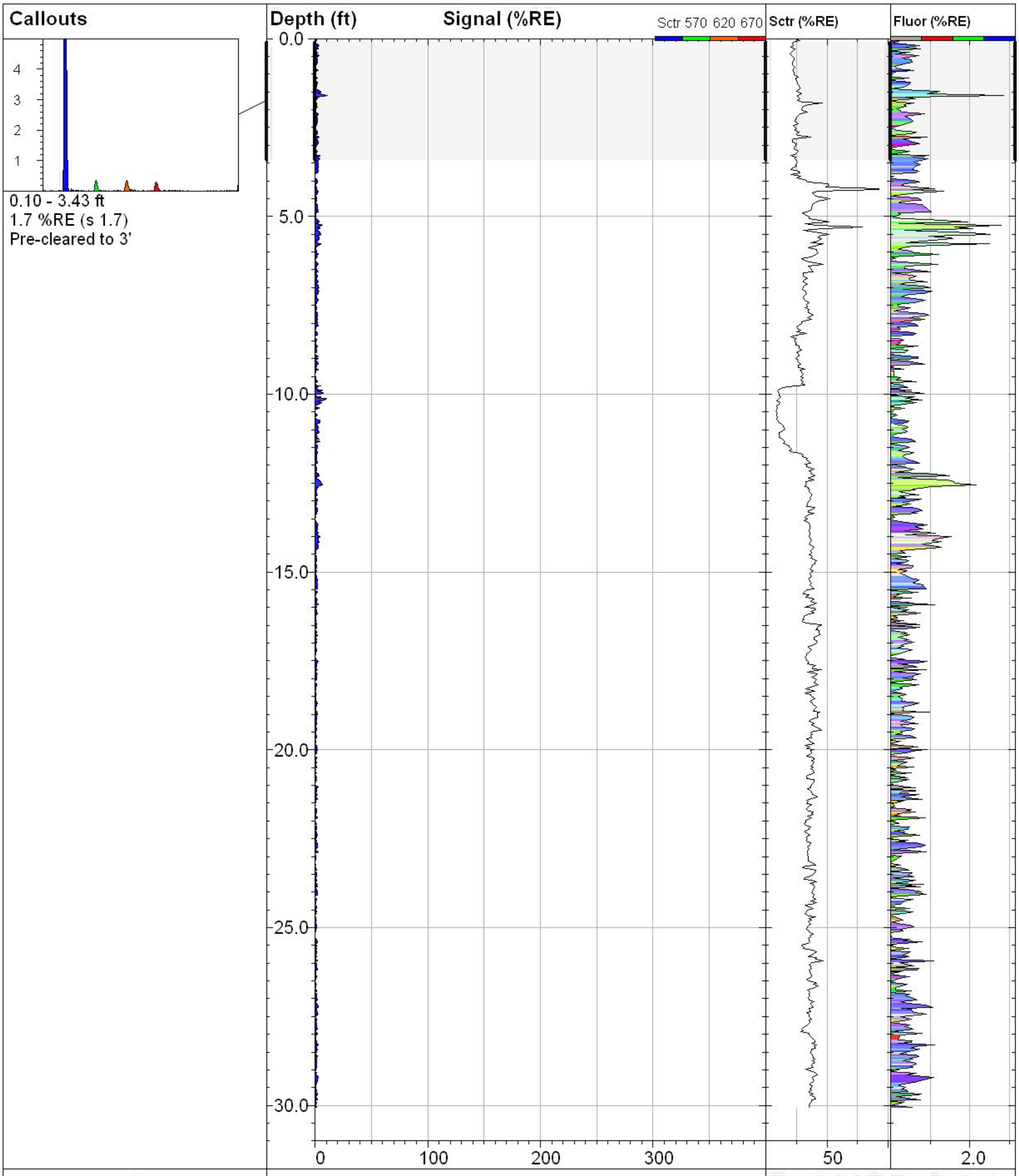
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.15 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.1 %RE @ 13.28 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-27 11:40 CST**



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TG04N

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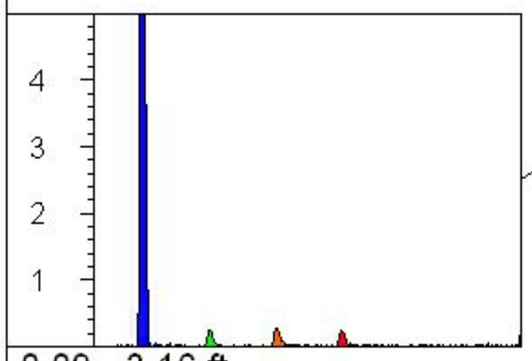
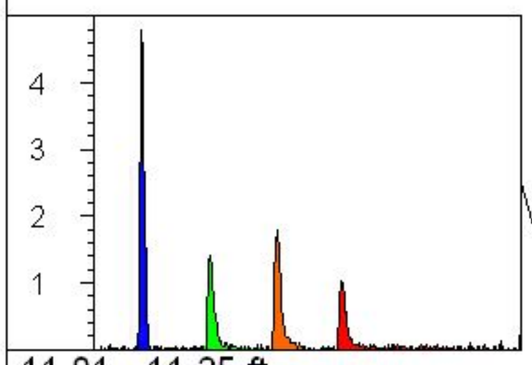
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.06 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **11.0 %RE @ 1.61 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-27 12:29 CST**

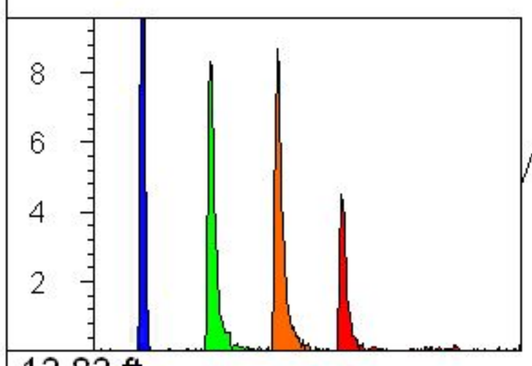
Callouts



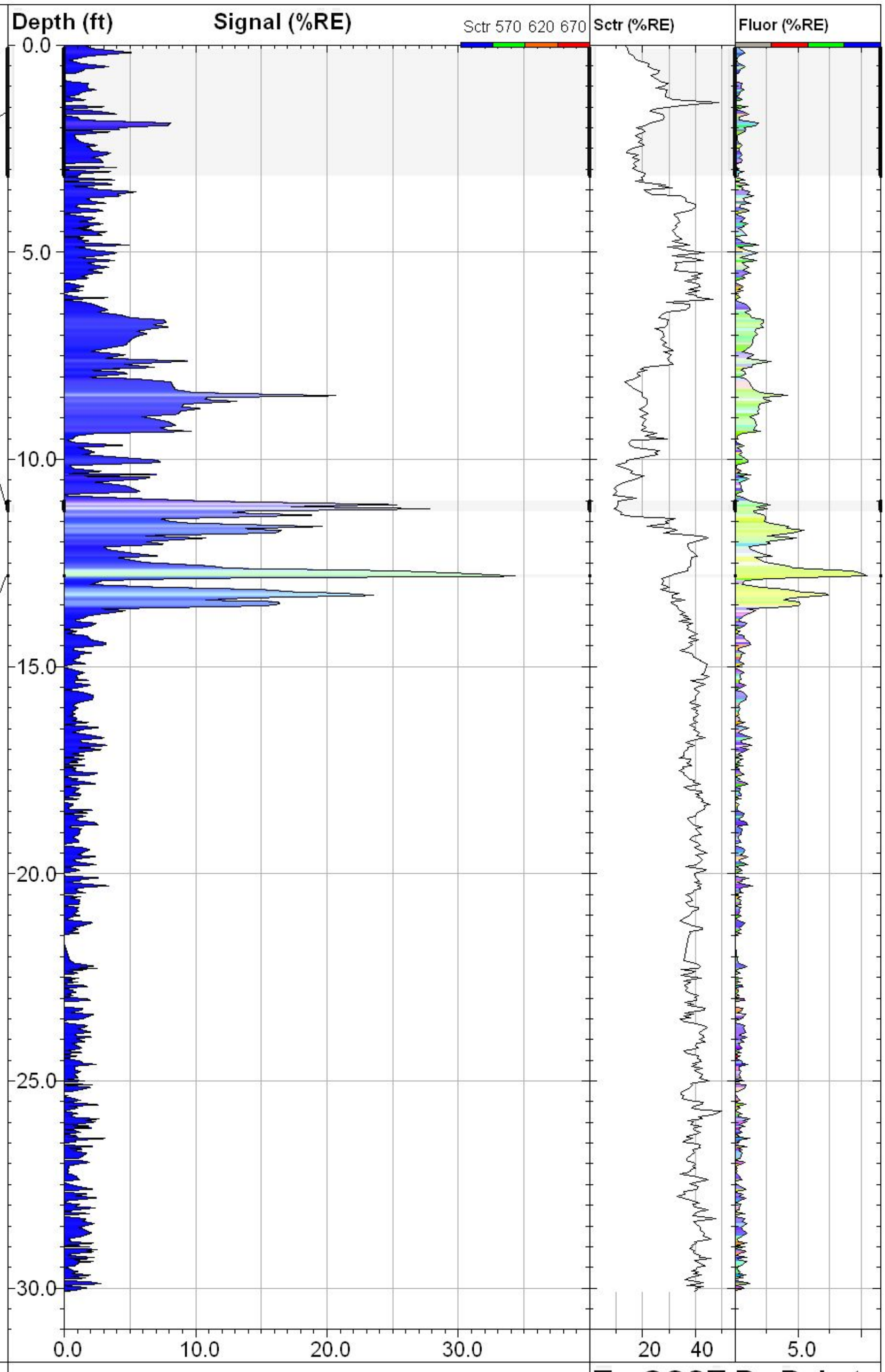
0.09 - 3.16 ft
1.7 %RE (s 2.0)
Pre-cleared to 3'



11.01 - 11.25 ft
18.8 %RE (s 7.6)



12.82 ft
34.5 %RE



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TG05N

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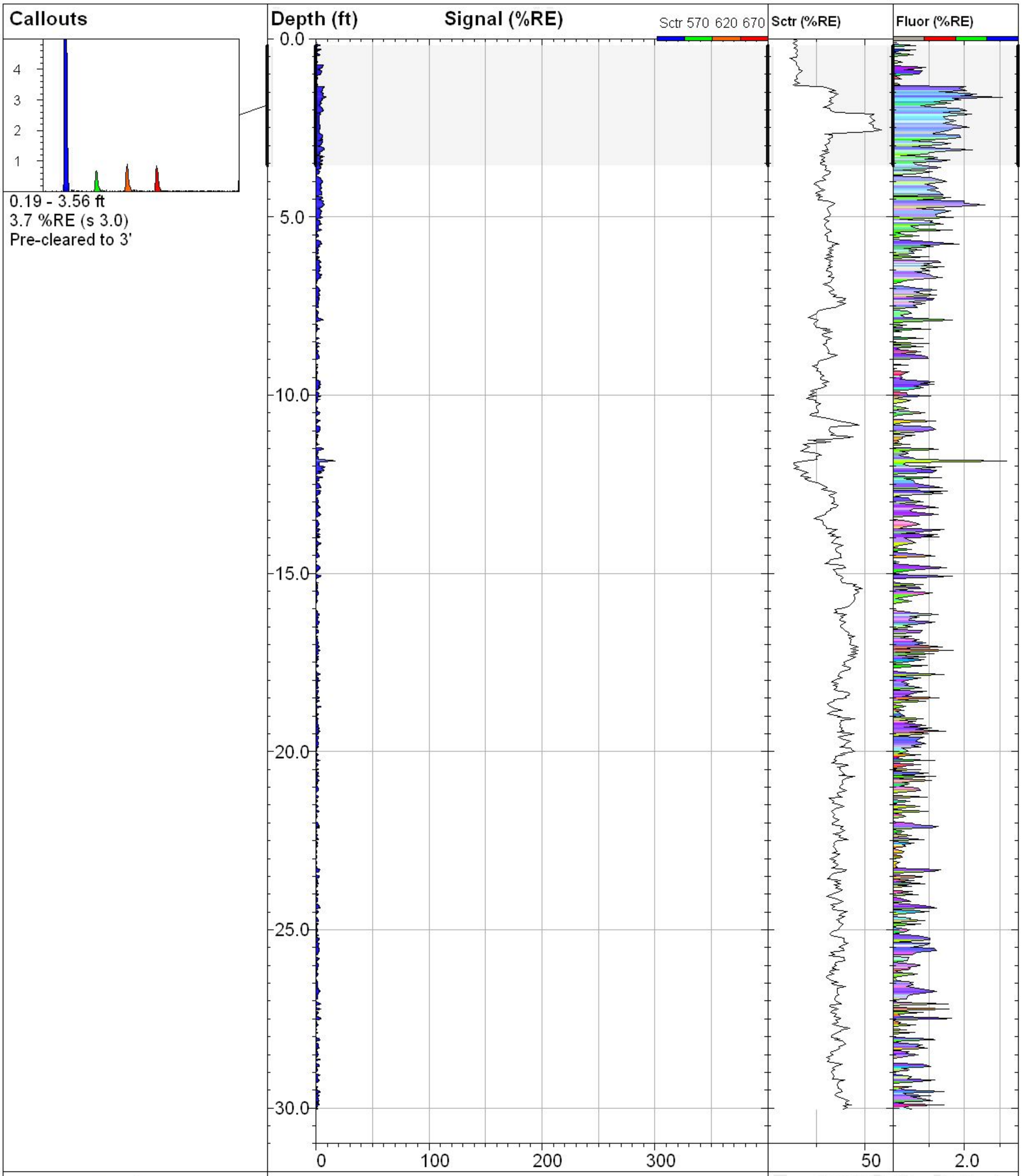
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.08 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **34.5 %RE @ 12.82 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-27 13:07 CST**



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TG06W

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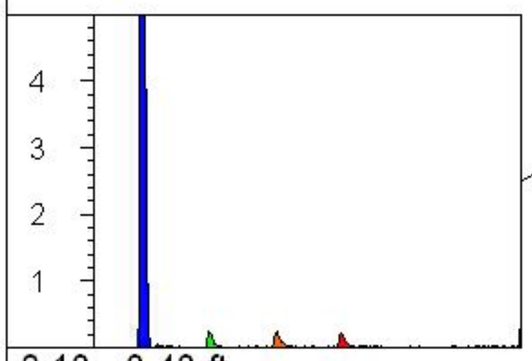
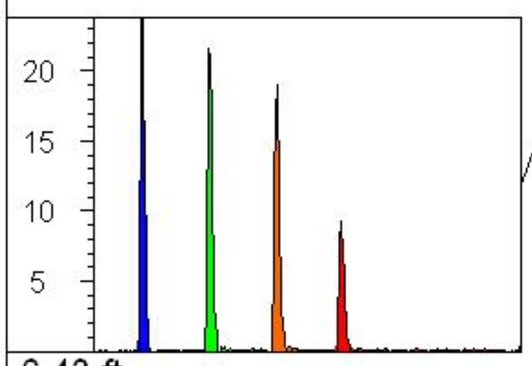
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.7 %RE @ 11.84 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 07:53 CST**

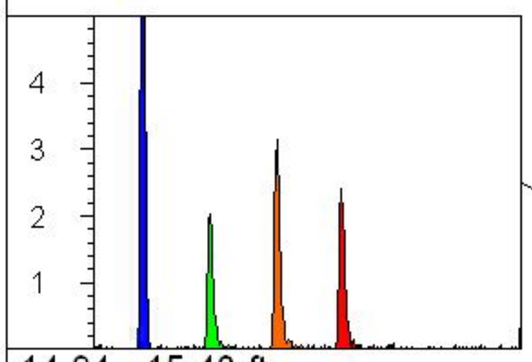
Callouts



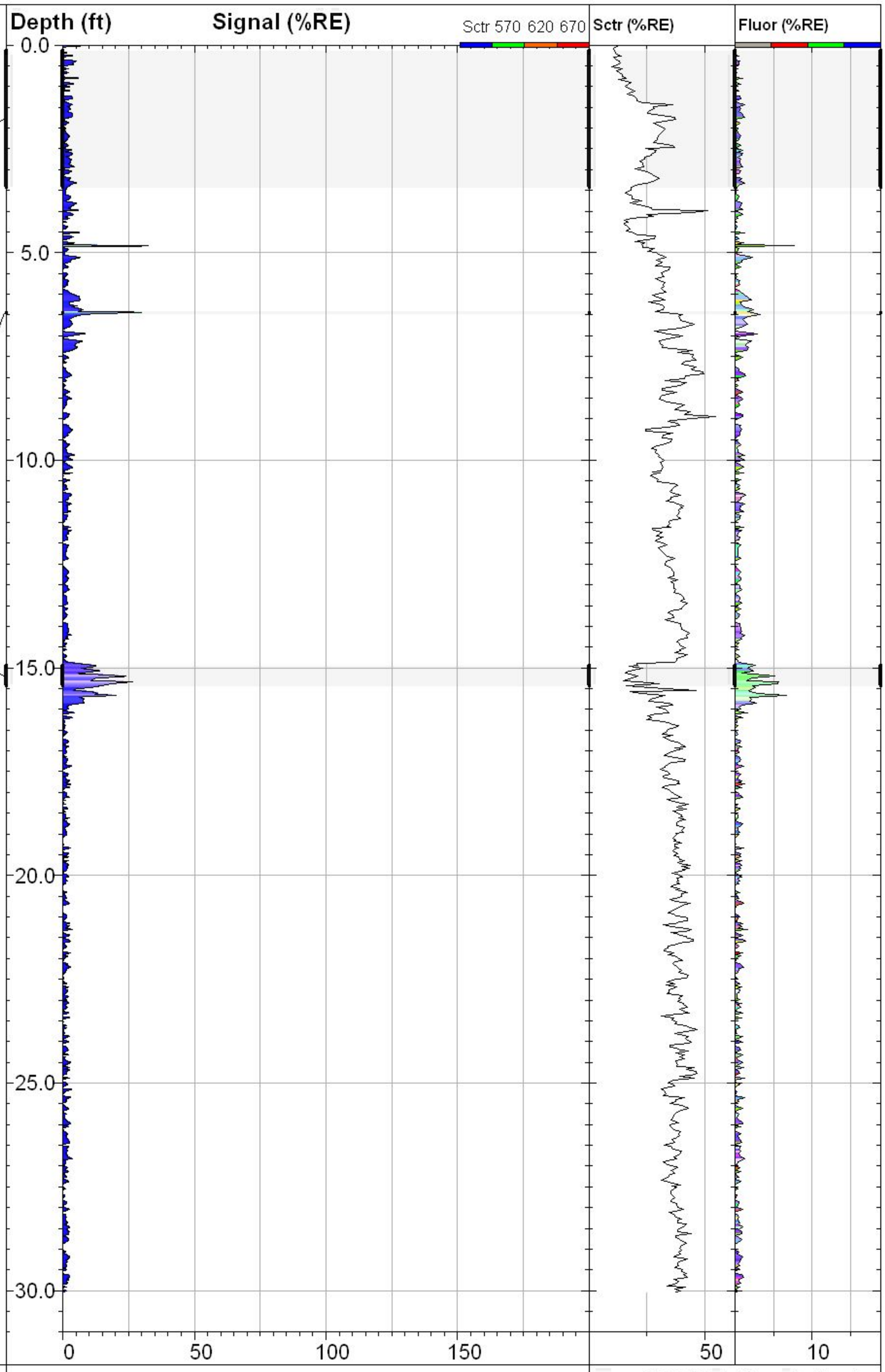
0.13 - 3.43 ft
1.7 %RE (s 2.4)
Pre-cleared to 3'



6.43 ft
30.0 %RE



14.94 - 15.43 ft
14.8 %RE (s 6.2)



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TG07S

TarGOST By Dakota
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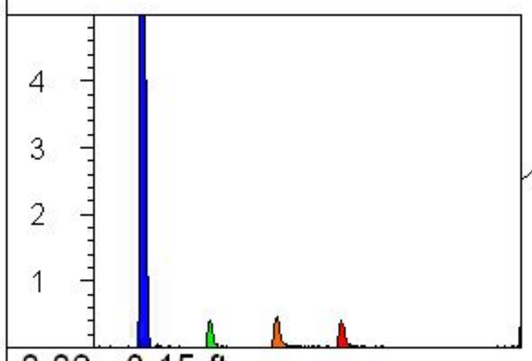
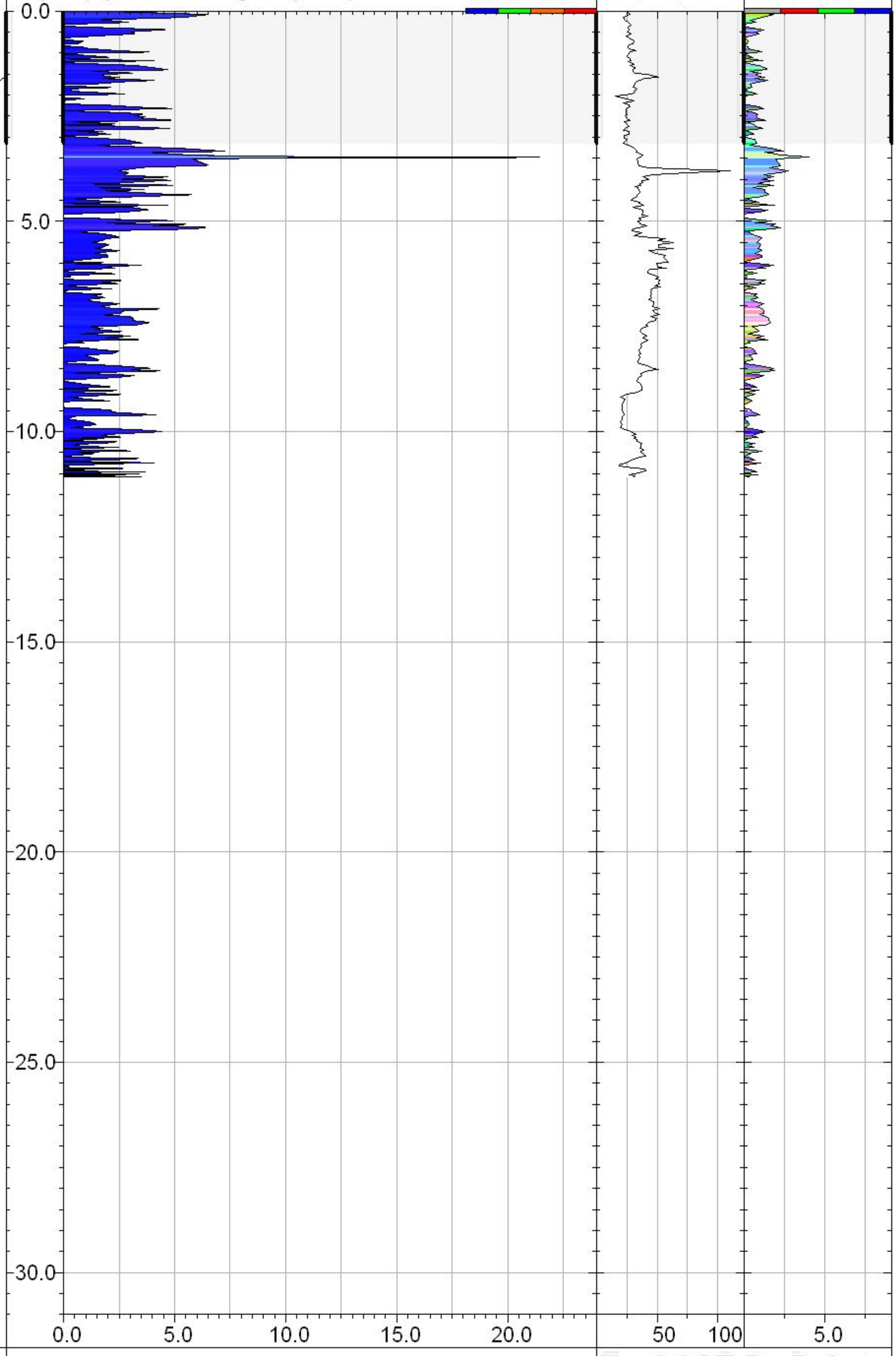
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.04 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **32.9 %RE @ 4.84 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 08:39 CST**

Callouts



0.02 - 3.15 ft
1.9 %RE (s 1.8)
Pre-cleared to 3'

Met refusal at 11'



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TG08S

TarGOST By Dakota
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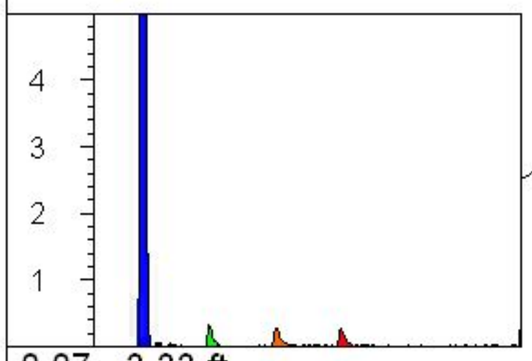
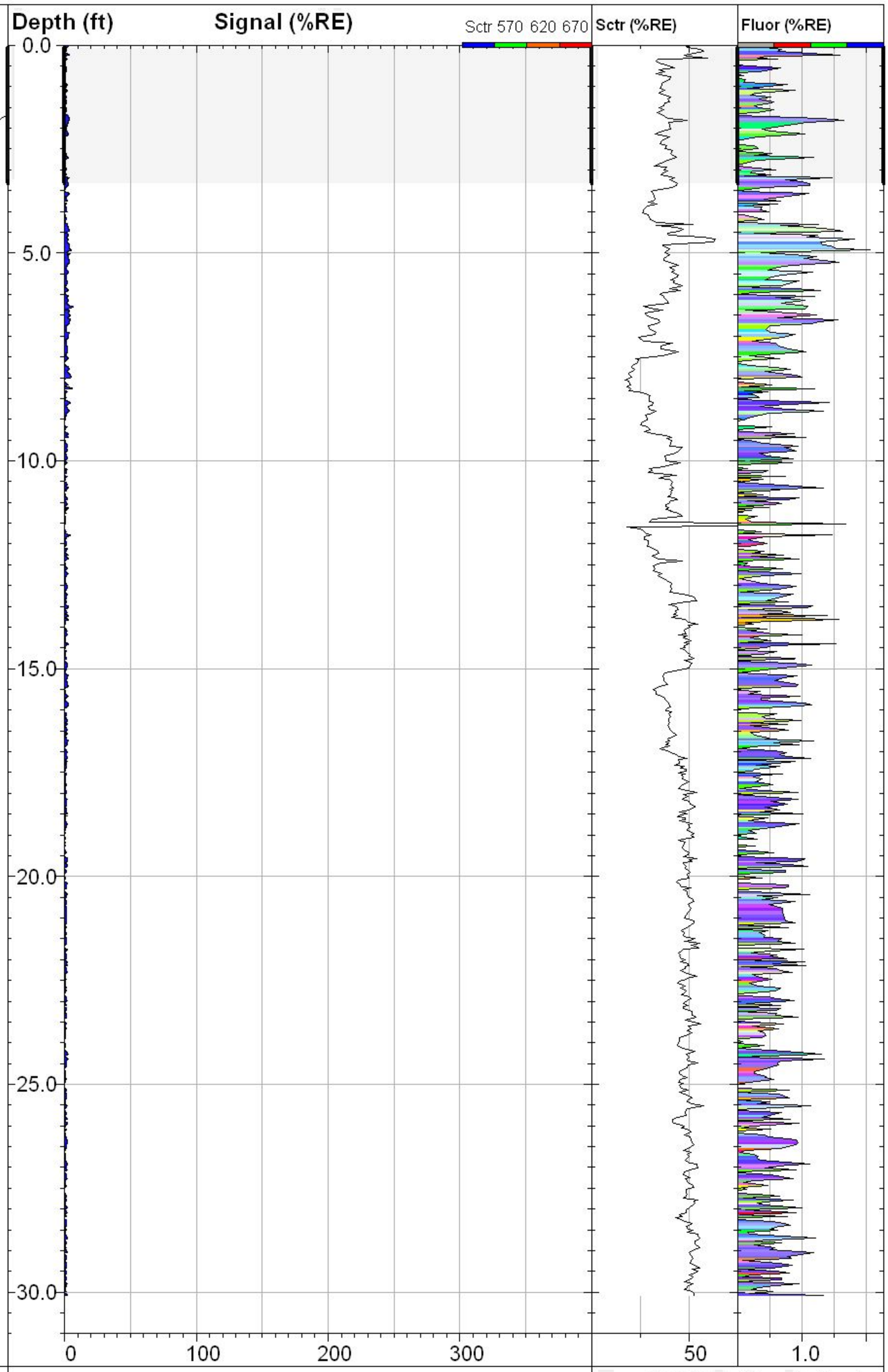
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.08 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **22.2 %RE @ 3.48 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 09:10 CST**

Callouts



0.07 - 3.33 ft
1.1 %RE (s 1.0)
Pre-cleared to 3'



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TG09SW

TarGOST By Dakota
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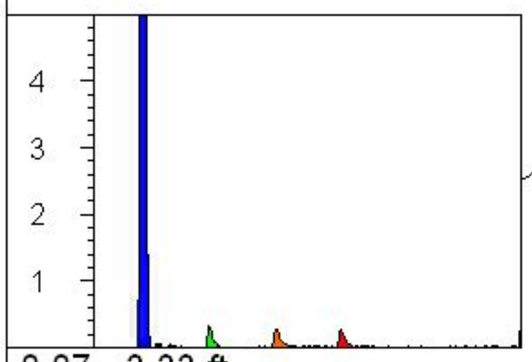
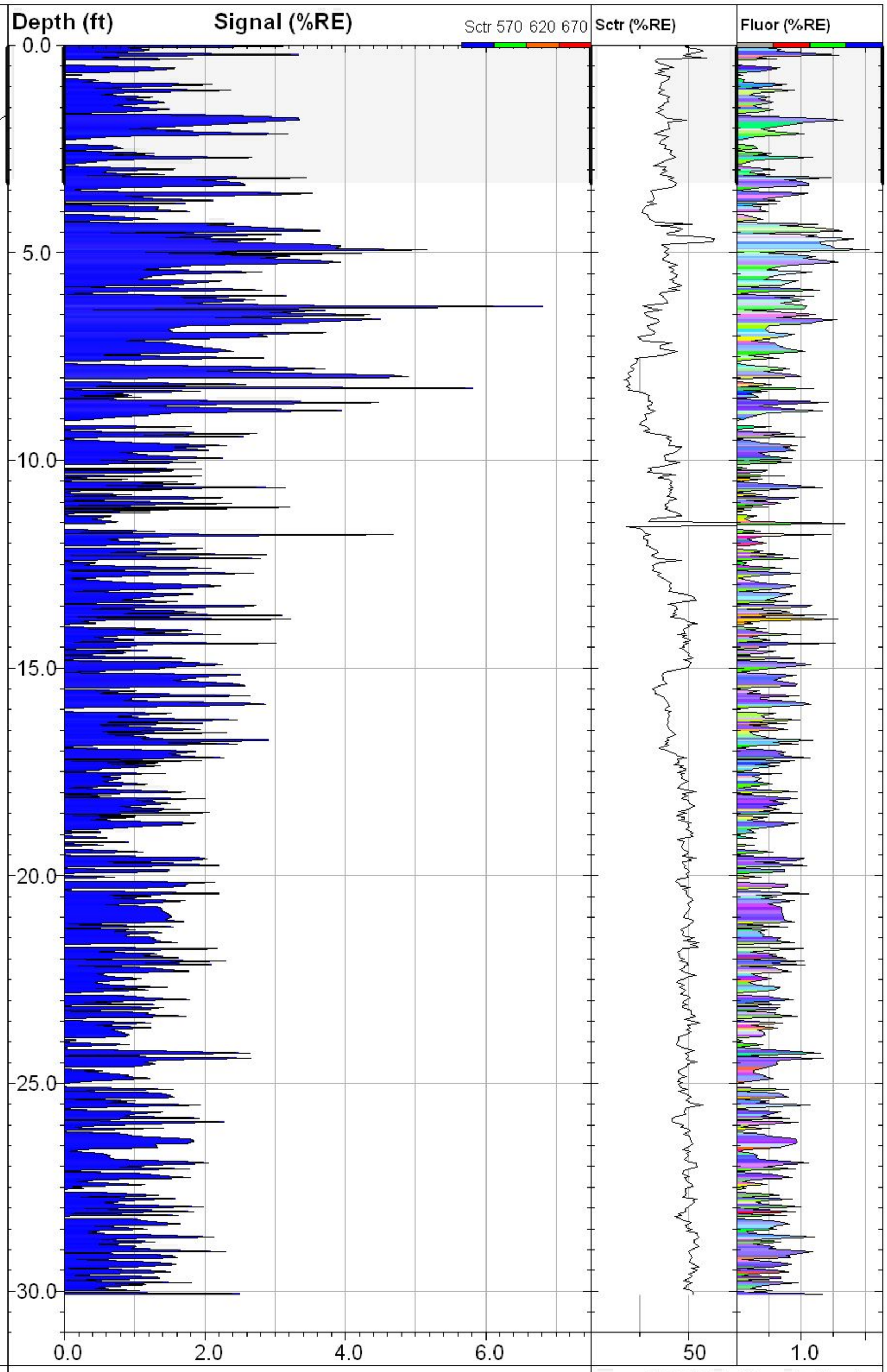
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.07 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.1 %RE @ 6.29 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 09:54 CST**

Callouts



0.07 - 3.33 ft
1.1 %RE (s 1.0)
Pre-cleared to 3'



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TG09SW

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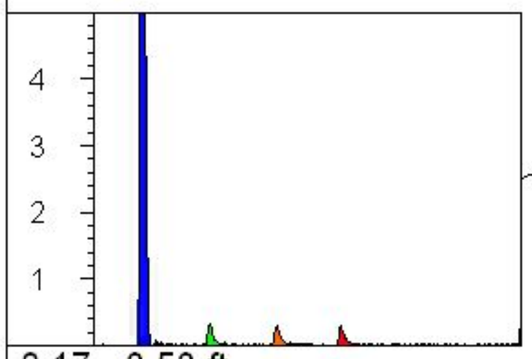
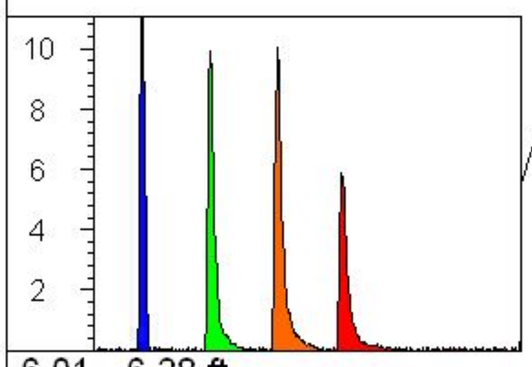
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.07 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.1 %RE @ 6.29 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 09:54 CST**

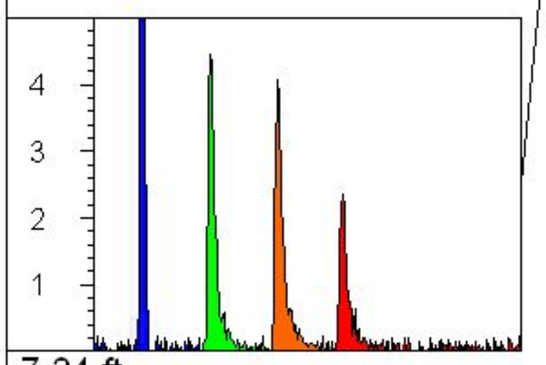
Callouts



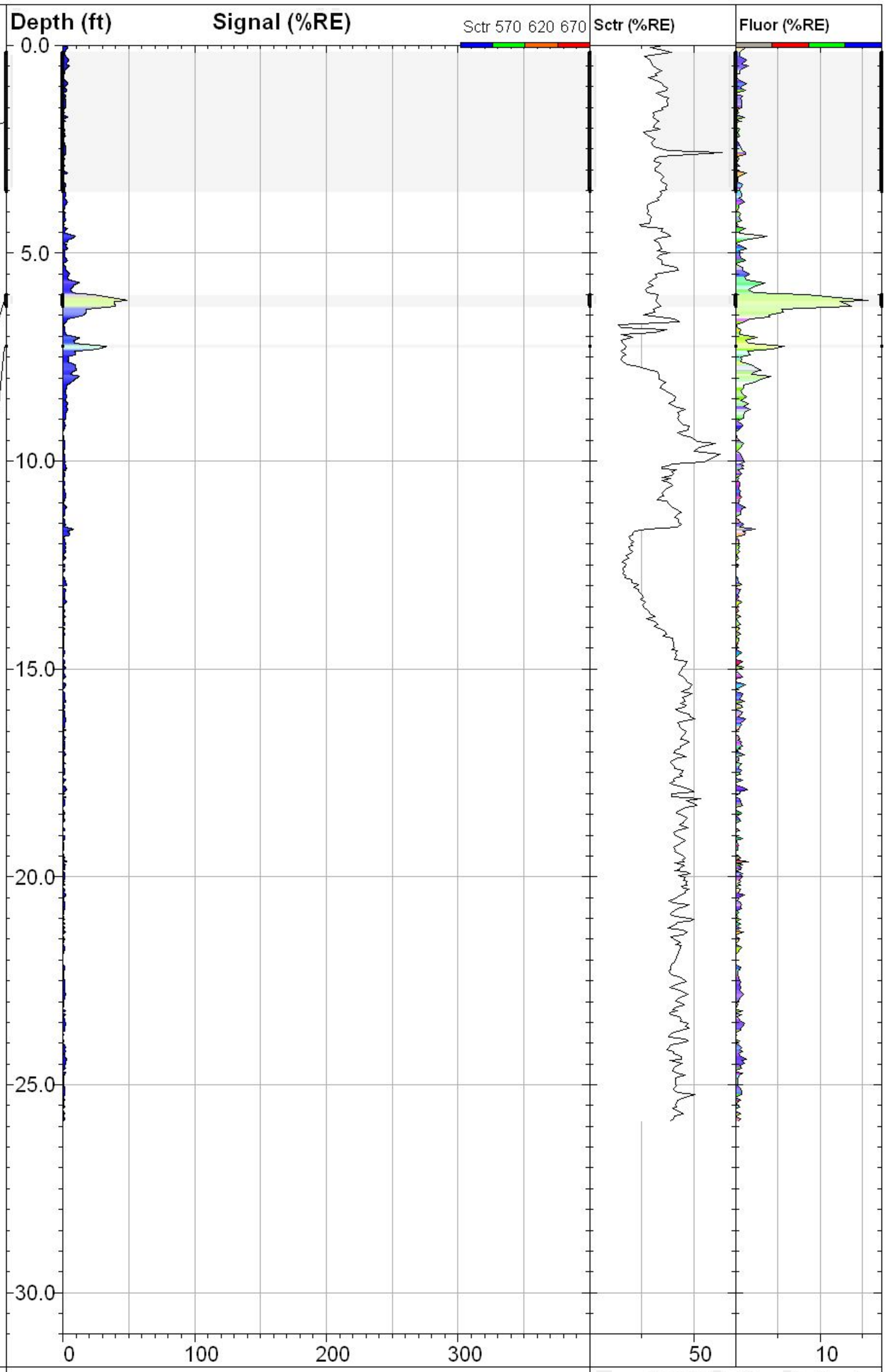
0.17 - 3.53 ft
1.4 %RE (s 1.3)
Pre-cleared to 3'



6.01 - 6.28 ft
38.3 %RE (s 9.9)



7.24 ft
33.5 %RE



TG10N

TarGOST By Dakota
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Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.86 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **49.3 %RE @ 6.14 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 10:50 CST**

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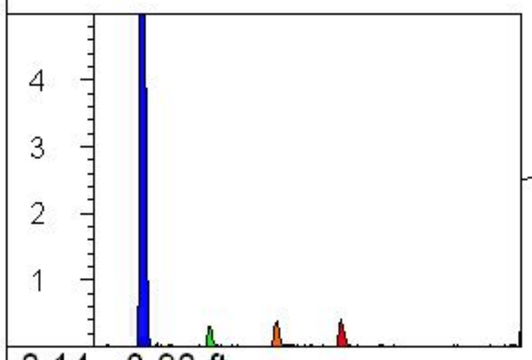
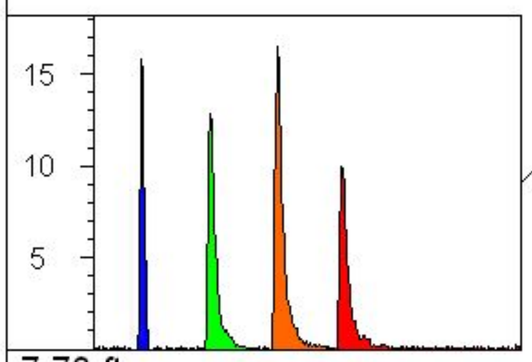
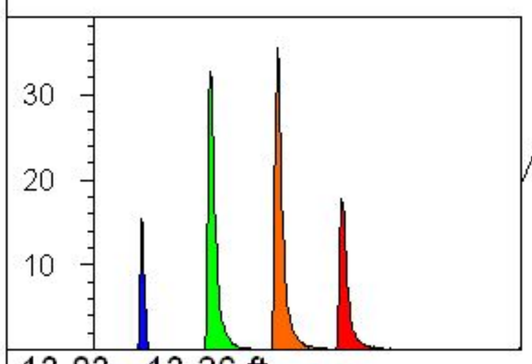
Callouts



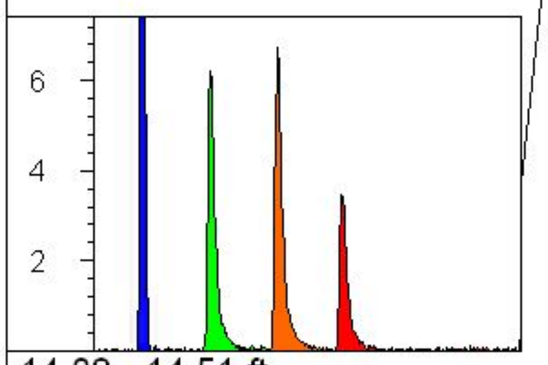
0.14 - 3.90 ft
1.5 %RE (s 2.2)
Pre-cleared to 3'



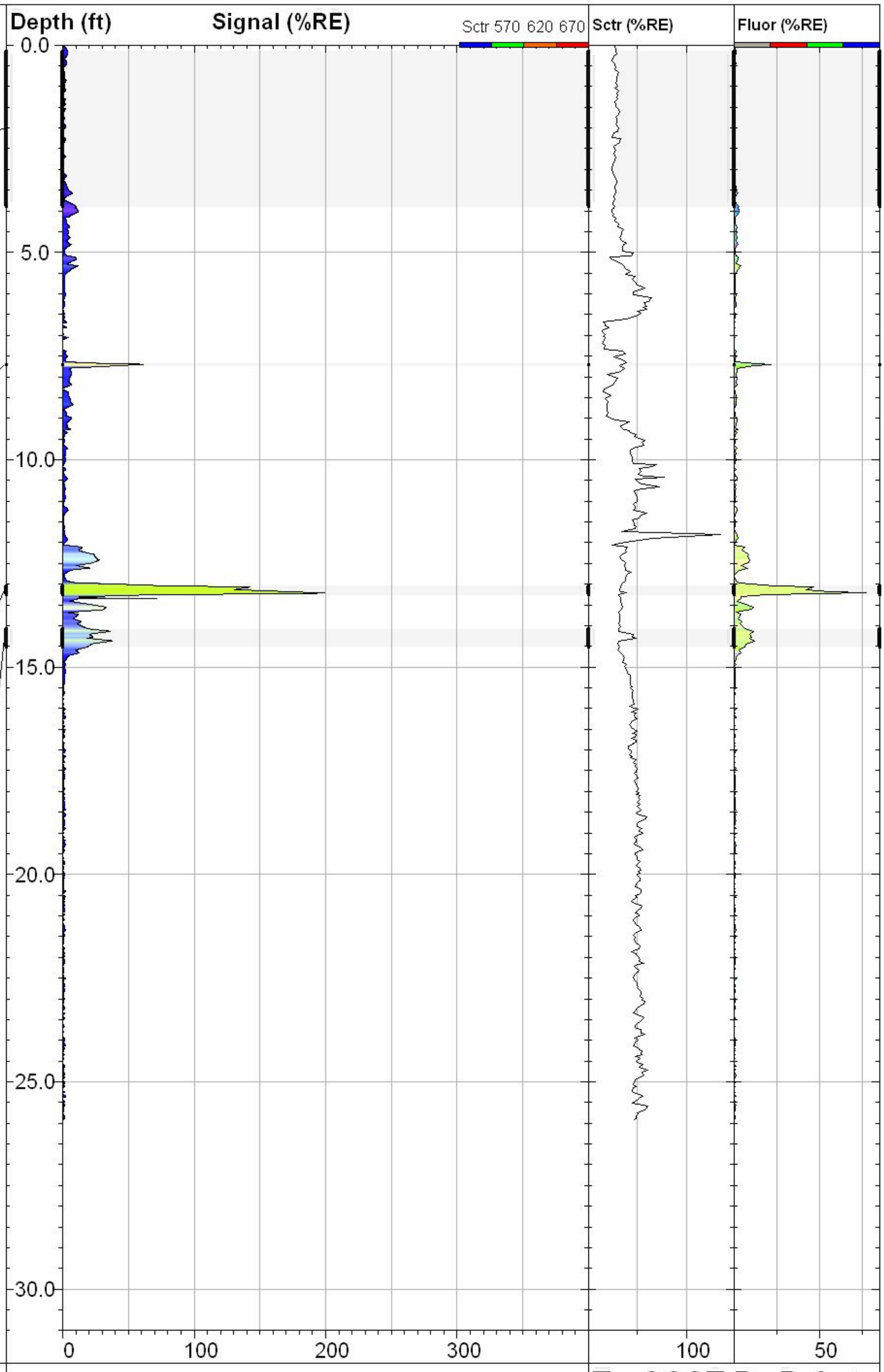
7.70 ft
62.5 %RE



13.03 - 13.26 ft
131.9 %RE (s 53.7)



14.08 - 14.51 ft
23.4 %RE (s 7.7)



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TG11N

TarGOST By Dakota
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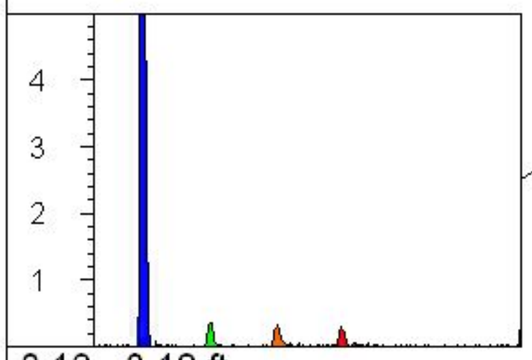
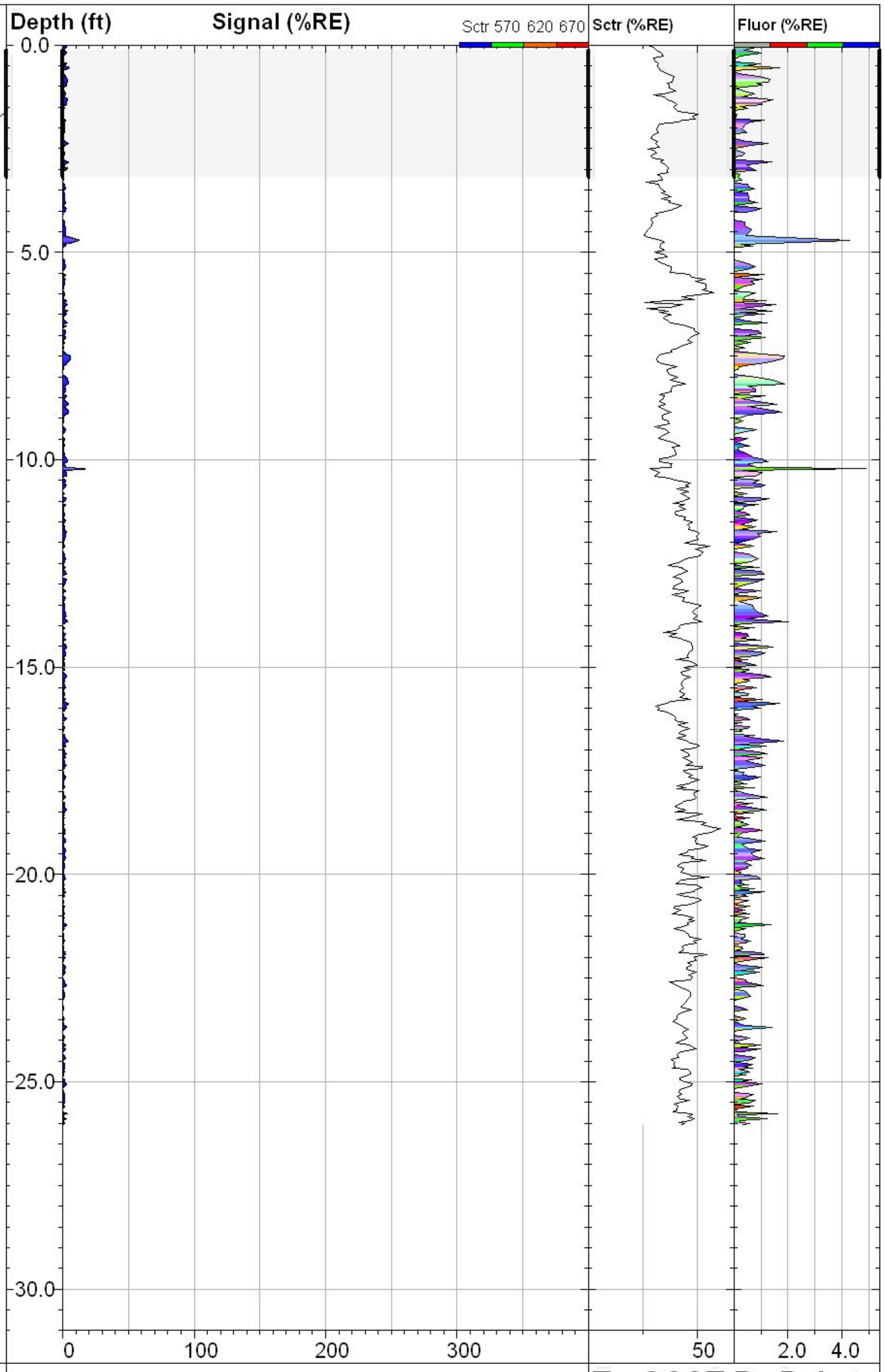
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.92 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **199.4 %RE @ 13.22 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 11:27 CST**

Callouts



0.12 - 3.18 ft
1.4 %RE (s 1.5)
Pre-cleared to 3'



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TG12NW

TarGOST By Dakota
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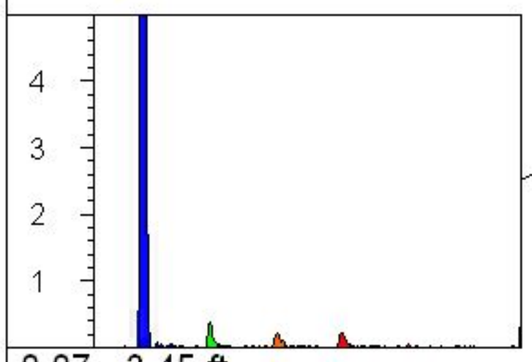
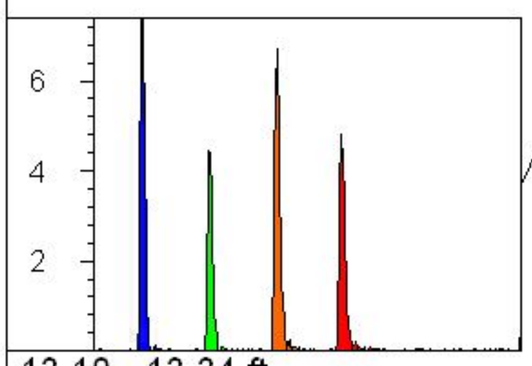
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.03 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **17.4 %RE @ 10.22 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 12:07 CST**

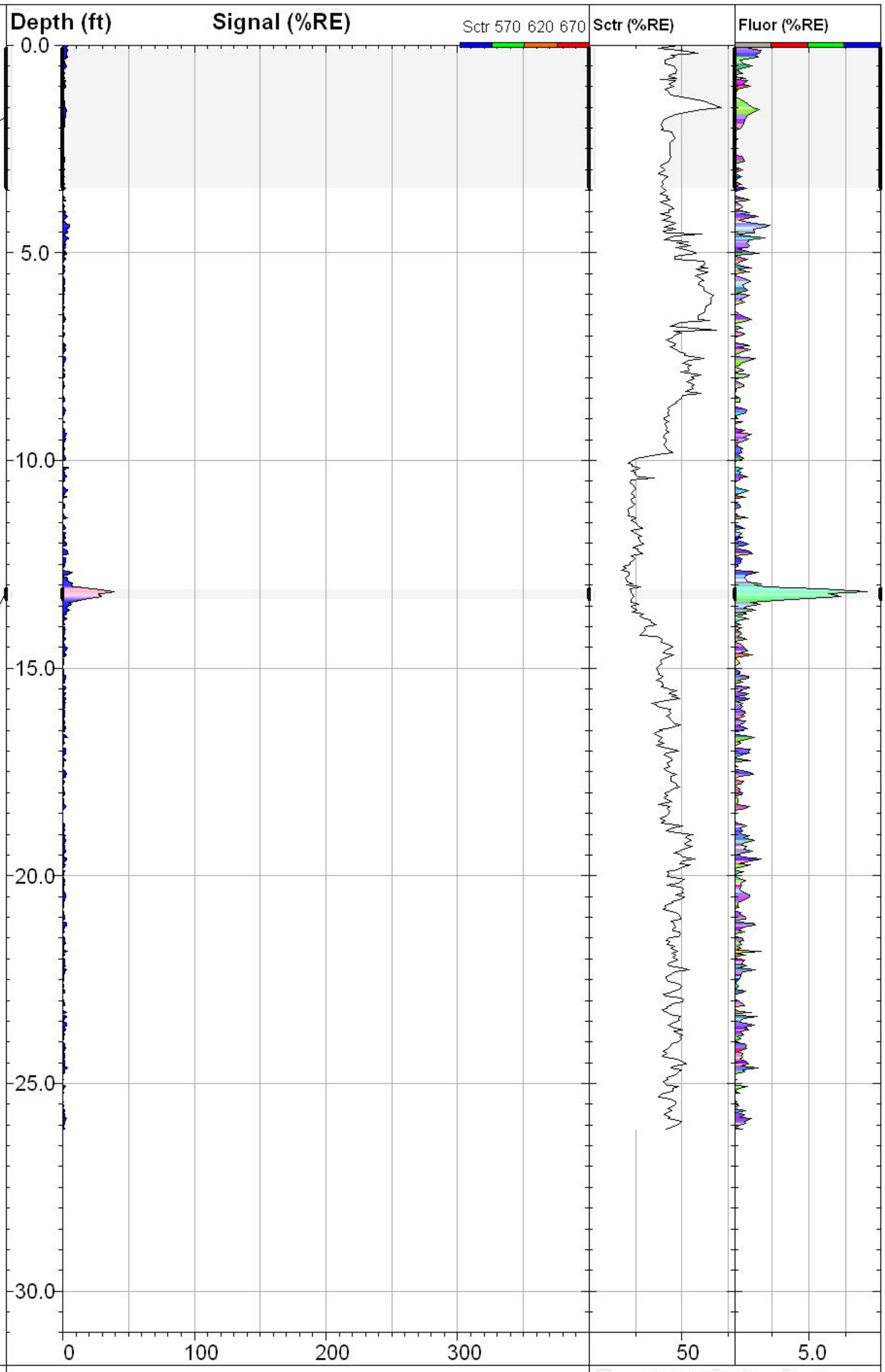
Callouts



0.07 - 3.45 ft
1.1 %RE (s 1.3)
Pre-cleared to 3'



13.10 - 13.34 ft
27.9 %RE (s 8.0)



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TG13NE

TarGOST By Dakota
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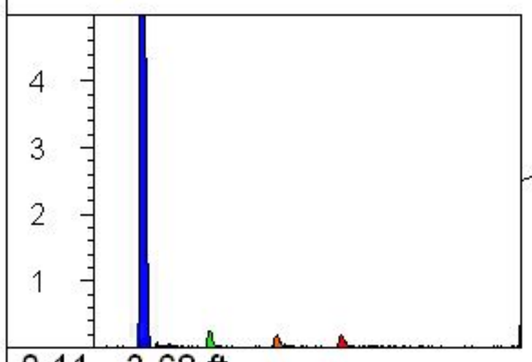
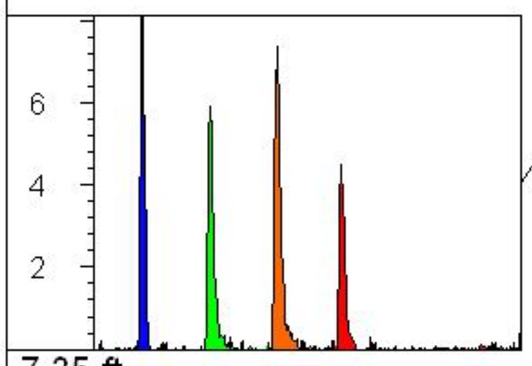
Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.10 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **39.4 %RE @ 13.16 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 12:26 CST**

Callouts

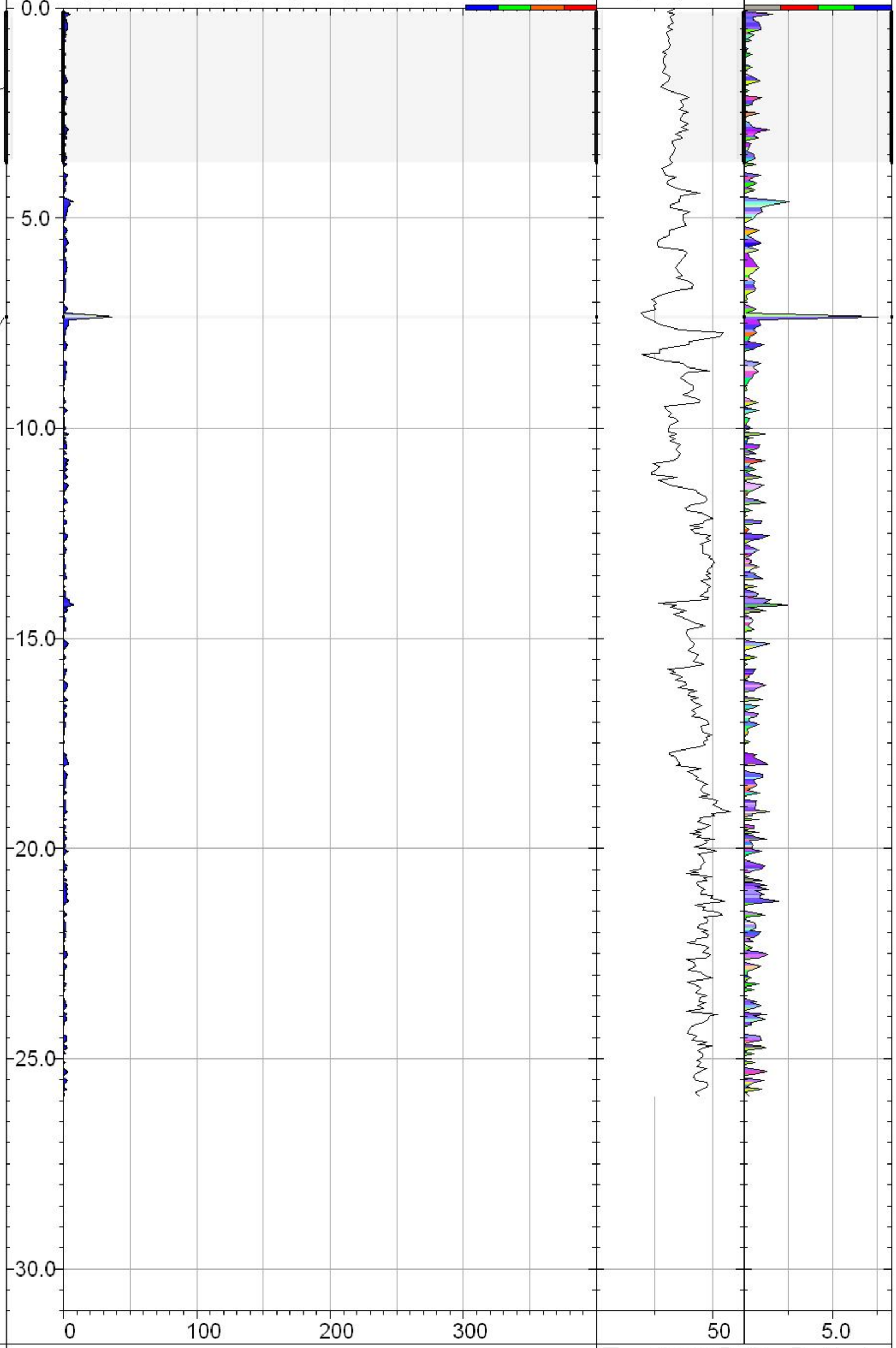


0.11 - 3.68 ft
1.1 %RE (s 1.4)
Pre-cleared to 3'



7.35 ft
36.7 %RE

Clean window



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TG14N

TarGOST By Dakota
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Site: **Former Kay Fries Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.91 ft**
Client / Job: **ECM, Inc /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **36.7 %RE @ 7.35 ft**
Operator / Unit: **JTCL / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2014-01-28 13:16 CST**