

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

U.S. Steel Corp – Clariton Works
Clariton, PA
Client Project # 00701-0002.00

Analytical Report
(1022-148)

EPA Method TO-15

TO-15 Target Compound List



Enthalpy Analytical, LLC

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800-1 Capitola Drive Durham, NC 27713-4385

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 37 pages.

Report Issued: 11/29/22



Results

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01_221108-S
Sample Info. 1022-148; 500mL load; Can #1762
Sampling Date 2022-11-08 12:55
Received Date 2022-11-11 00:00
Sample Type Sample
Batch Xavier_X111122C.v1
Data File X2202180.D
Dilution 1.000
Pressurization Factor 1.754
Acquisition Date 2022-11-12 01:46
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-148.VOC01_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Propylene | 1.27 | 0.0678 | 0.0614 | 2.19 | 0.117 | 0.106 | |
| Freon 12 (CCl2F2) | 0.450 | 0.0687 | 0.0614 | 2.22 | 0.340 | 0.303 | |
| Freon 114 (C2Cl2F4) | ND | 0.703 | 0.0614 | ND | 4.91 | 0.429 | |
| Chloromethane | 0.474 | 0.0694 | 0.0614 | 0.978 | 0.143 | 0.127 | |
| Chloroethene (Vinyl chloride) | ND | 0.0701 | 0.0614 | ND | 0.179 | 0.157 | |
| 1,3-Butadiene | 0.0731 | 0.0683 | 0.0614 | 0.162 | 0.151 | 0.136 | |
| Bromomethane | ND | 0.0688 | 0.0614 | ND | 0.267 | 0.238 | |
| Chloroethane | ND | 0.0713 | 0.0614 | ND | 0.188 | 0.162 | |
| Bromoethene (Vinyl bromide) | ND | 0.0686 | 0.0614 | ND | 0.300 | 0.268 | |
| Freon 11 (CCl3F) | 0.216 | 0.0740 | 0.0614 | 1.21 | 0.416 | 0.345 | |
| Ethanol | 2.62 | 0.0695 | 0.0702 | 4.93 | 0.131 | 0.132 | |
| Acrolein | 0.140 | 0.0691 | 0.0614 | 0.322 | 0.158 | 0.141 | |
| Freon 113 (C2Cl3F3) | 0.0625 | 0.0712 | 0.0614 | 0.479 | 0.546 | 0.470 | J |
| 1,1-Dichloroethene | ND | 0.0706 | 0.0614 | ND | 0.280 | 0.243 | |
| Acetone | 2.60 | 0.0703 | 0.0614 | 6.18 | 0.167 | 0.146 | |
| Carbon disulfide | 0.0800 | 0.0700 | 0.0614 | 0.249 | 0.218 | 0.191 | |
| Isopropyl alcohol | 0.364 | 0.0700 | 0.0614 | 0.893 | 0.172 | 0.151 | m |
| Allyl chloride (3-chloropropene) | ND | 0.0758 | 0.0614 | ND | 0.237 | 0.192 | |
| Acetonitrile | 0.267 | 0.0700 | 0.0614 | 0.448 | 0.117 | 0.103 | |
| Methylene chloride | 0.124 | 0.0719 | 0.0614 | 0.429 | 0.249 | 0.213 | |
| trans-1,2-Dichloroethene | ND | 0.0716 | 0.0614 | ND | 0.284 | 0.243 | |
| Methyl tert-butyl ether | ND | 0.0721 | 0.0614 | ND | 0.260 | 0.221 | |
| Acrylonitrile | ND | 0.0714 | 0.0614 | ND | 0.155 | 0.133 | |
| Hexane | 0.201 | 0.0713 | 0.0614 | 0.709 | 0.251 | 0.216 | |
| 1,1-Dichloroethane | ND | 0.0697 | 0.0614 | ND | 0.282 | 0.248 | |
| Vinyl acetate | ND | 0.0718 | 0.0614 | ND | 0.253 | 0.216 | |
| cis-1,2-Dichloroethene | ND | 0.0709 | 0.0614 | ND | 0.281 | 0.243 | |
| Methyl ethyl ketone (2-Butanone) | 0.407 | 0.0726 | 0.0614 | 1.20 | 0.214 | 0.181 | |
| Ethyl acetate | 0.0693 | 0.0700 | 0.0614 | 0.250 | 0.252 | 0.221 | J |
| Chloroform | ND | 0.0704 | 0.0614 | ND | 0.343 | 0.300 | |
| Tetrahydrofuran | ND | 0.0710 | 0.0614 | ND | 0.209 | 0.181 | |
| 1,1,1-Trichloroethane | ND | 0.0709 | 0.0614 | ND | 0.386 | 0.335 | |
| Cyclohexane | 0.156 | 0.0719 | 0.0614 | 0.535 | 0.247 | 0.211 | |

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 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-148.VOC01_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|-------------------------|--------------|---------------|--------------------------|---------------|----------------|-------|
| Carbon tetrachloride | 0.0716 | 0.0707 | 0.0614 | 0.450 | 0.444 | 0.386 | |
| Benzene | 6.76 | 0.0706 | 0.0614 | 21.6 | 0.225 | 0.196 | |
| 2,2,4-trimethylpentane | 0.0688 | 0.0726 | 0.0614 | 0.321 | 0.339 | 0.287 | J |
| 1,2-Dichloroethane | ND | 0.0722 | 0.0614 | ND | 0.292 | 0.248 | |
| Heptane | 0.107 | 0.0711 | 0.0614 | 0.439 | 0.291 | 0.251 | |
| Trichloroethene | ND | 0.0710 | 0.0614 | ND | 0.381 | 0.330 | |
| 1,2-Dichloropropane | ND | 0.0707 | 0.0614 | ND | 0.326 | 0.284 | |
| Methyl methacrylate | ND | 0.0735 | 0.0614 | ND | 0.301 | 0.251 | |
| 1,4-Dioxane | ND | 0.0704 | 0.0614 | ND | 0.253 | 0.221 | |
| Bromodichloromethane | ND | 0.0709 | 0.0614 | ND | 0.475 | 0.411 | |
| cis-1,3-Dichloropropene | ND | 0.0697 | 0.0614 | ND | 0.316 | 0.279 | |
| Methyl isobutyl ketone | ND | 0.0729 | 0.0614 | ND | 0.299 | 0.251 | |
| Toluene | 0.947 | 0.0714 | 0.0614 | 3.56 | 0.269 | 0.231 | |
| trans-1,3-Dichloropropene | ND | 0.0724 | 0.0614 | ND | 0.328 | 0.279 | |
| 1,1,2-Trichloroethane | ND | 0.0714 | 0.0614 | ND | 0.389 | 0.335 | |
| Tetrachloroethene | ND | 0.0718 | 0.0614 | ND | 0.487 | 0.416 | |
| 2-Hexanone (Methyl butyl ketone) | ND | 0.0718 | 0.0614 | ND | 0.294 | 0.251 | |
| Dibromochloromethane | ND | 0.0707 | 0.0614 | ND | 0.602 | 0.523 | |
| 1,2-Dibromoethane | ND | 0.0718 | 0.0614 | ND | 0.551 | 0.472 | |
| Chlorobenzene | ND | 0.0723 | 0.0614 | ND | 0.333 | 0.283 | |
| Ethylbenzene | ND | 0.0697 | 0.0614 | ND | 0.302 | 0.266 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0707 | 0.0614 | ND | 0.485 | 0.421 | |
| m-/p-Xylenes | 0.240 | 0.0712 | 0.0614 | 1.04 | 0.309 | 0.266 | |
| o-Xylene | 0.0751 | 0.0703 | 0.0614 | 0.326 | 0.305 | 0.266 | |
| Styrene | 0.150 | 0.0688 | 0.0614 | 0.640 | 0.293 | 0.261 | |
| Bromoform | ND | 0.0704 | 0.0614 | ND | 0.727 | 0.634 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0710 | 0.0614 | ND | 0.487 | 0.421 | |
| 4-Ethyltoluene | ND | 0.0714 | 0.0614 | ND | 0.351 | 0.302 | |
| 2-Chlorotoluene | ND | 0.0708 | 0.0614 | ND | 0.366 | 0.318 | |
| 1,3,5-Trimethylbenzene | ND | 0.0712 | 0.0614 | ND | 0.350 | 0.302 | |
| 1,2,4-Trimethylbenzene | ND | 0.0702 | 0.0614 | ND | 0.345 | 0.302 | |
| 1,3-Dichlorobenzene | ND | 0.0713 | 0.0614 | ND | 0.428 | 0.369 | |
| 1,4-Dichlorobenzene | ND | 0.0705 | 0.0614 | ND | 0.424 | 0.369 | |

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 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-148.VOC01_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Benzyl chloride | ND | 0.0706 | 0.0614 | ND | 0.365 | 0.318 | |
| 1,2-Dichlorobenzene | ND | 0.0711 | 0.0614 | ND | 0.427 | 0.369 | |
| 1,2,4-Trichlorobenzene | ND | 0.0699 | 0.0614 | ND | 0.518 | 0.455 | |
| Hexachlorobutadiene | ND | 0.0693 | 0.0614 | ND | 0.739 | 0.654 | |
| Naphthalene | 0.313 | 0.0707 | 0.0614 | 1.64 | 0.370 | 0.322 | |
| 1-Bromopropane | ND | 0.0696 | 0.0614 | ND | 0.350 | 0.309 | |
| 1-Octene | ND | 0.0693 | 0.0614 | ND | 0.318 | 0.282 | |
| n-Octane | ND | 0.0723 | 0.0614 | ND | 0.337 | 0.287 | |
| Isopropylbenzene | ND | 0.0713 | 0.0614 | ND | 0.350 | 0.302 | |
| n-Propylbenzene | ND | 0.0720 | 0.0614 | ND | 0.354 | 0.302 | |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 1,013,158 | 11.05 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,819,917 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,241,724 | 16.61 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

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Sample Info. 1022-148; 500mL load; Can #1791
Sampling Date 2022-11-08 13:36
Received Date 2022-11-11 00:00
Sample Type Sample
Batch Xavier_X111122C.v1
Data File X2202181.D
Dilution 1.000
Pressurization Factor 1.762
Acquisition Date 2022-11-12 02:41
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|----------------------------------|-------------------------|--------------|---------------|--------------------------|---------------|----------------|-------|
| Propylene | 0.948 | 0.0681 | 0.0617 | 1.63 | 0.117 | 0.106 | m |
| Freon 12 (CCl2F2) | 0.450 | 0.0690 | 0.0617 | 2.23 | 0.341 | 0.305 | |
| Freon 114 (C2Cl2F4) | ND | 0.706 | 0.0617 | ND | 4.93 | 0.431 | |
| Chloromethane | 0.486 | 0.0697 | 0.0617 | 1.00 | 0.144 | 0.127 | |
| Chloroethene (Vinyl chloride) | ND | 0.0704 | 0.0617 | ND | 0.180 | 0.158 | |
| 1,3-Butadiene | ND | 0.0686 | 0.0617 | ND | 0.152 | 0.136 | |
| Bromomethane | ND | 0.0692 | 0.0617 | ND | 0.268 | 0.239 | |
| Chloroethane | ND | 0.0716 | 0.0617 | ND | 0.189 | 0.163 | |
| Bromoethene (Vinyl bromide) | ND | 0.0689 | 0.0617 | ND | 0.301 | 0.270 | |
| Freon 11 (CCl3F) | 0.222 | 0.0744 | 0.0617 | 1.25 | 0.418 | 0.346 | |
| Ethanol | 1.66 | 0.0699 | 0.0705 | 3.13 | 0.132 | 0.133 | |
| Acrolein | 0.121 | 0.0694 | 0.0617 | 0.276 | 0.159 | 0.141 | m |
| Freon 113 (C2Cl3F3) | 0.0675 | 0.0716 | 0.0617 | 0.517 | 0.548 | 0.472 | J |
| 1,1-Dichloroethene | ND | 0.0709 | 0.0617 | ND | 0.281 | 0.244 | |
| Acetone | 1.44 | 0.0706 | 0.0617 | 3.41 | 0.168 | 0.146 | |
| Carbon disulfide | 0.0919 | 0.0703 | 0.0617 | 0.286 | 0.219 | 0.192 | |
| Isopropyl alcohol | 0.333 | 0.0703 | 0.0617 | 0.819 | 0.173 | 0.152 | m |
| Allyl chloride (3-chloropropene) | ND | 0.0761 | 0.0617 | ND | 0.238 | 0.193 | |
| Acetonitrile | 0.174 | 0.0703 | 0.0617 | 0.292 | 0.118 | 0.103 | m |
| Methylene chloride | 0.109 | 0.0722 | 0.0617 | 0.379 | 0.251 | 0.214 | |
| trans-1,2-Dichloroethene | ND | 0.0719 | 0.0617 | ND | 0.285 | 0.244 | |
| Methyl tert-butyl ether | ND | 0.0725 | 0.0617 | ND | 0.261 | 0.222 | |
| Acrylonitrile | ND | 0.0718 | 0.0617 | ND | 0.156 | 0.134 | |
| Hexane | 0.184 | 0.0716 | 0.0617 | 0.648 | 0.252 | 0.217 | |
| 1,1-Dichloroethane | ND | 0.0700 | 0.0617 | ND | 0.283 | 0.250 | |
| Vinyl acetate | ND | 0.0721 | 0.0617 | ND | 0.254 | 0.217 | |
| cis-1,2-Dichloroethene | ND | 0.0712 | 0.0617 | ND | 0.282 | 0.244 | |
| Methyl ethyl ketone (2-Butanone) | 0.159 | 0.0729 | 0.0617 | 0.468 | 0.215 | 0.182 | |
| Ethyl acetate | 0.0908 | 0.0704 | 0.0617 | 0.327 | 0.253 | 0.222 | m |
| Chloroform | ND | 0.0707 | 0.0617 | ND | 0.345 | 0.301 | |
| Tetrahydrofuran | ND | 0.0713 | 0.0617 | ND | 0.210 | 0.182 | |
| 1,1,1-Trichloroethane | ND | 0.0712 | 0.0617 | ND | 0.388 | 0.336 | |
| Cyclohexane | 0.191 | 0.0723 | 0.0617 | 0.655 | 0.249 | 0.212 | |

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| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|-------------------------|--------------|---------------|--------------------------|---------------|----------------|-------|
| Carbon tetrachloride | 0.0740 | 0.0710 | 0.0617 | 0.465 | 0.446 | 0.388 | |
| Benzene | 2.62 | 0.0709 | 0.0617 | 8.37 | 0.226 | 0.197 | |
| 2,2,4-trimethylpentane | ND | 0.0729 | 0.0617 | ND | 0.340 | 0.288 | |
| 1,2-Dichloroethane | ND | 0.0725 | 0.0617 | ND | 0.293 | 0.250 | |
| Heptane | 0.132 | 0.0714 | 0.0617 | 0.540 | 0.292 | 0.253 | |
| Trichloroethene | ND | 0.0713 | 0.0617 | ND | 0.383 | 0.331 | |
| 1,2-Dichloropropane | ND | 0.0710 | 0.0617 | ND | 0.328 | 0.285 | |
| Methyl methacrylate | ND | 0.0738 | 0.0617 | ND | 0.302 | 0.252 | |
| 1,4-Dioxane | ND | 0.0707 | 0.0617 | ND | 0.255 | 0.222 | |
| Bromodichloromethane | ND | 0.0712 | 0.0617 | ND | 0.477 | 0.413 | |
| cis-1,3-Dichloropropene | ND | 0.0700 | 0.0617 | ND | 0.318 | 0.280 | |
| Methyl isobutyl ketone | ND | 0.0732 | 0.0617 | ND | 0.300 | 0.253 | |
| Toluene | 0.722 | 0.0718 | 0.0617 | 2.72 | 0.270 | 0.232 | |
| trans-1,3-Dichloropropene | ND | 0.0728 | 0.0617 | ND | 0.330 | 0.280 | |
| 1,1,2-Trichloroethane | ND | 0.0717 | 0.0617 | ND | 0.391 | 0.336 | |
| Tetrachloroethene | ND | 0.0721 | 0.0617 | ND | 0.489 | 0.418 | |
| 2-Hexanone (Methyl butyl ketone) | ND | 0.0721 | 0.0617 | ND | 0.295 | 0.253 | |
| Dibromochloromethane | ND | 0.0711 | 0.0617 | ND | 0.605 | 0.525 | |
| 1,2-Dibromoethane | ND | 0.0721 | 0.0617 | ND | 0.554 | 0.474 | |
| Chlorobenzene | ND | 0.0726 | 0.0617 | ND | 0.334 | 0.284 | |
| Ethylbenzene | ND | 0.0700 | 0.0617 | ND | 0.304 | 0.268 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0711 | 0.0617 | ND | 0.488 | 0.423 | |
| m-/p-Xylenes | 0.301 | 0.0715 | 0.0617 | 1.31 | 0.310 | 0.268 | |
| o-Xylene | 0.104 | 0.0706 | 0.0617 | 0.451 | 0.307 | 0.268 | |
| Styrene | 0.138 | 0.0691 | 0.0617 | 0.585 | 0.294 | 0.263 | |
| Bromoform | ND | 0.0707 | 0.0617 | ND | 0.730 | 0.637 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0713 | 0.0617 | ND | 0.489 | 0.423 | |
| 4-Ethyltoluene | ND | 0.0717 | 0.0617 | ND | 0.352 | 0.303 | |
| 2-Chlorotoluene | ND | 0.0711 | 0.0617 | ND | 0.368 | 0.319 | |
| 1,3,5-Trimethylbenzene | ND | 0.0715 | 0.0617 | ND | 0.351 | 0.303 | |
| 1,2,4-Trimethylbenzene | 0.106 | 0.0706 | 0.0617 | 0.521 | 0.347 | 0.303 | |
| 1,3-Dichlorobenzene | ND | 0.0716 | 0.0617 | ND | 0.430 | 0.371 | |
| 1,4-Dichlorobenzene | ND | 0.0708 | 0.0617 | ND | 0.426 | 0.371 | |

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|------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Benzyl chloride | ND | 0.0709 | 0.0617 | ND | 0.367 | 0.319 | |
| 1,2-Dichlorobenzene | ND | 0.0714 | 0.0617 | ND | 0.429 | 0.371 | |
| 1,2,4-Trichlorobenzene | ND | 0.0702 | 0.0617 | ND | 0.521 | 0.457 | |
| Hexachlorobutadiene | ND | 0.0696 | 0.0617 | ND | 0.742 | 0.657 | |
| Naphthalene | 5.30 | 0.0710 | 0.0617 | 27.8 | 0.372 | 0.323 | |
| 1-Bromopropane | ND | 0.0699 | 0.0617 | ND | 0.352 | 0.310 | |
| 1-Octene | ND | 0.0696 | 0.0617 | ND | 0.319 | 0.283 | |
| n-Octane | 0.0894 | 0.0726 | 0.0617 | 0.417 | 0.339 | 0.288 | |
| Isopropylbenzene | ND | 0.0716 | 0.0617 | ND | 0.352 | 0.303 | |
| n-Propylbenzene | ND | 0.0723 | 0.0617 | ND | 0.355 | 0.303 | |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 976,570 | 11.04 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,654,924 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,181,069 | 16.60 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

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|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Propylene | 0.889 | 0.0682 | 0.0618 | 1.53 | 0.117 | 0.106 | |
| Freon 12 (CCl2F2) | 0.438 | 0.0691 | 0.0618 | 2.17 | 0.342 | 0.305 | |
| Freon 114 (C2Cl2F4) | ND | 0.708 | 0.0618 | ND | 4.94 | 0.432 | |
| Chloromethane | 0.497 | 0.0699 | 0.0618 | 1.03 | 0.144 | 0.128 | |
| Chloroethene (Vinyl chloride) | ND | 0.0706 | 0.0618 | ND | 0.180 | 0.158 | |
| 1,3-Butadiene | ND | 0.0687 | 0.0618 | ND | 0.152 | 0.137 | |
| Bromomethane | ND | 0.0693 | 0.0618 | ND | 0.269 | 0.240 | |
| Chloroethane | ND | 0.0718 | 0.0618 | ND | 0.189 | 0.163 | |
| Bromoethene (Vinyl bromide) | ND | 0.0691 | 0.0618 | ND | 0.302 | 0.270 | |
| Freon 11 (CCl3F) | 0.212 | 0.0745 | 0.0618 | 1.19 | 0.418 | 0.347 | |
| Ethanol | 1.50 | 0.0700 | 0.0706 | 2.82 | 0.132 | 0.133 | |
| Acrolein | 0.0847 | 0.0696 | 0.0618 | 0.194 | 0.159 | 0.142 | m |
| Freon 113 (C2Cl3F3) | 0.0664 | 0.0717 | 0.0618 | 0.508 | 0.549 | 0.473 | J |
| 1,1-Dichloroethene | ND | 0.0711 | 0.0618 | ND | 0.282 | 0.245 | |
| Acetone | 1.41 | 0.0708 | 0.0618 | 3.35 | 0.168 | 0.147 | |
| Carbon disulfide | ND | 0.0704 | 0.0618 | ND | 0.219 | 0.192 | |
| Isopropyl alcohol | 0.184 | 0.0704 | 0.0618 | 0.452 | 0.173 | 0.152 | m |
| Allyl chloride (3-chloropropene) | ND | 0.0763 | 0.0618 | ND | 0.239 | 0.193 | |
| Acetonitrile | 0.108 | 0.0704 | 0.0618 | 0.180 | 0.118 | 0.104 | |
| Methylene chloride | 0.109 | 0.0723 | 0.0618 | 0.380 | 0.251 | 0.215 | |
| trans-1,2-Dichloroethene | ND | 0.0720 | 0.0618 | ND | 0.285 | 0.245 | |
| Methyl tert-butyl ether | ND | 0.0726 | 0.0618 | ND | 0.262 | 0.223 | |
| Acrylonitrile | ND | 0.0719 | 0.0618 | ND | 0.156 | 0.134 | |
| Hexane | 0.154 | 0.0718 | 0.0618 | 0.542 | 0.253 | 0.218 | |
| 1,1-Dichloroethane | ND | 0.0701 | 0.0618 | ND | 0.284 | 0.250 | |
| Vinyl acetate | ND | 0.0723 | 0.0618 | ND | 0.254 | 0.217 | |
| cis-1,2-Dichloroethene | ND | 0.0713 | 0.0618 | ND | 0.283 | 0.245 | |
| Methyl ethyl ketone (2-Butanone) | 0.143 | 0.0730 | 0.0618 | 0.421 | 0.215 | 0.182 | |
| Ethyl acetate | 0.0992 | 0.0705 | 0.0618 | 0.357 | 0.254 | 0.223 | m |
| Chloroform | ND | 0.0708 | 0.0618 | ND | 0.346 | 0.302 | |
| Tetrahydrofuran | ND | 0.0715 | 0.0618 | ND | 0.211 | 0.182 | |
| 1,1,1-Trichloroethane | ND | 0.0713 | 0.0618 | ND | 0.389 | 0.337 | |
| Cyclohexane | 0.226 | 0.0724 | 0.0618 | 0.779 | 0.249 | 0.213 | |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_221108-S
Sample Info. 1022-148; 500mL load; Can #000010
Sampling Date 2022-11-08 14:01
Received Date 2022-11-11 00:00
Sample Type Sample
Batch Xavier_X111122C.v1
Data File X2202183.D
Dilution 1.000
Pressurization Factor 1.766
Acquisition Date 2022-11-12 04:29
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-148.VOC03_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Carbon tetrachloride | 0.0733 | 0.0711 | 0.0618 | 0.461 | 0.447 | 0.389 | |
| Benzene | 1.03 | 0.0711 | 0.0618 | 3.28 | 0.227 | 0.197 | |
| 2,2,4-trimethylpentane | ND | 0.0730 | 0.0618 | ND | 0.341 | 0.289 | |
| 1,2-Dichloroethane | ND | 0.0727 | 0.0618 | ND | 0.294 | 0.250 | |
| Heptane | 0.103 | 0.0716 | 0.0618 | 0.422 | 0.293 | 0.253 | |
| Trichloroethene | ND | 0.0714 | 0.0618 | ND | 0.384 | 0.332 | |
| 1,2-Dichloropropane | ND | 0.0711 | 0.0618 | ND | 0.328 | 0.285 | |
| Methyl methacrylate | ND | 0.0740 | 0.0618 | ND | 0.303 | 0.253 | |
| 1,4-Dioxane | ND | 0.0708 | 0.0618 | ND | 0.255 | 0.223 | |
| Bromodichloromethane | ND | 0.0713 | 0.0618 | ND | 0.478 | 0.414 | |
| cis-1,3-Dichloropropene | ND | 0.0701 | 0.0618 | ND | 0.318 | 0.280 | |
| Methyl isobutyl ketone | ND | 0.0734 | 0.0618 | ND | 0.300 | 0.253 | |
| Toluene | 0.330 | 0.0719 | 0.0618 | 1.24 | 0.271 | 0.233 | |
| trans-1,3-Dichloropropene | ND | 0.0729 | 0.0618 | ND | 0.331 | 0.280 | |
| 1,1,2-Trichloroethane | ND | 0.0718 | 0.0618 | ND | 0.392 | 0.337 | |
| Tetrachloroethene | ND | 0.0723 | 0.0618 | ND | 0.490 | 0.419 | |
| 2-Hexanone (Methyl butyl ketone) | ND | 0.0723 | 0.0618 | ND | 0.296 | 0.253 | |
| Dibromochloromethane | ND | 0.0712 | 0.0618 | ND | 0.606 | 0.526 | |
| 1,2-Dibromoethane | ND | 0.0723 | 0.0618 | ND | 0.555 | 0.475 | |
| Chlorobenzene | ND | 0.0728 | 0.0618 | ND | 0.335 | 0.284 | |
| Ethylbenzene | ND | 0.0701 | 0.0618 | ND | 0.304 | 0.268 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0712 | 0.0618 | ND | 0.488 | 0.424 | |
| m-/p-Xylenes | 0.164 | 0.0716 | 0.0618 | 0.710 | 0.311 | 0.268 | |
| o-Xylene | 0.0646 | 0.0708 | 0.0618 | 0.280 | 0.307 | 0.268 | J |
| Styrene | 0.0880 | 0.0692 | 0.0618 | 0.375 | 0.295 | 0.263 | |
| Bromoform | ND | 0.0708 | 0.0618 | ND | 0.732 | 0.638 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0714 | 0.0618 | ND | 0.490 | 0.424 | |
| 4-Ethyltoluene | ND | 0.0718 | 0.0618 | ND | 0.353 | 0.304 | |
| 2-Chlorotoluene | ND | 0.0713 | 0.0618 | ND | 0.369 | 0.320 | |
| 1,3,5-Trimethylbenzene | ND | 0.0716 | 0.0618 | ND | 0.352 | 0.304 | |
| 1,2,4-Trimethylbenzene | 0.0767 | 0.0707 | 0.0618 | 0.377 | 0.347 | 0.304 | |
| 1,3-Dichlorobenzene | ND | 0.0718 | 0.0618 | ND | 0.431 | 0.371 | |
| 1,4-Dichlorobenzene | ND | 0.0710 | 0.0618 | ND | 0.427 | 0.371 | |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_221108-S
Sample Info. 1022-148; 500mL load; Can #000010
Sampling Date 2022-11-08 14:01
Received Date 2022-11-11 00:00
Sample Type Sample
Batch Xavier_X111122C.v1
Data File X2202183.D
Dilution 1.000
Pressurization Factor 1.766
Acquisition Date 2022-11-12 04:29
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-148.VOC03_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Benzyl chloride | ND | 0.0711 | 0.0618 | ND | 0.368 | 0.320 | |
| 1,2-Dichlorobenzene | ND | 0.0716 | 0.0618 | ND | 0.430 | 0.371 | |
| 1,2,4-Trichlorobenzene | ND | 0.0704 | 0.0618 | ND | 0.522 | 0.458 | |
| Hexachlorobutadiene | ND | 0.0698 | 0.0618 | ND | 0.744 | 0.659 | |
| Naphthalene | 0.727 | 0.0711 | 0.0618 | 3.81 | 0.373 | 0.324 | |
| 1-Bromopropane | ND | 0.0701 | 0.0618 | ND | 0.352 | 0.311 | |
| 1-Octene | ND | 0.0697 | 0.0618 | ND | 0.320 | 0.283 | |
| n-Octane | 0.0810 | 0.0728 | 0.0618 | 0.378 | 0.340 | 0.289 | |
| Isopropylbenzene | ND | 0.0718 | 0.0618 | ND | 0.353 | 0.304 | |
| n-Propylbenzene | ND | 0.0725 | 0.0618 | ND | 0.356 | 0.304 | |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 984,679 | 11.04 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,687,907 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,207,478 | 16.60 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_221108-S
Sample Info. 1022-148; 500mL load; Can #R5116
Sampling Date 2022-11-08 13:20
Received Date 2022-11-11 00:00
Sample Type Sample
Batch Xavier_X111122C.v1
Data File X2202184.D
Dilution 1.000
Pressurization Factor 1.757
Acquisition Date 2022-11-12 05:24
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-148.VOC05_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Propylene | 1.49 | 0.0679 | 0.0615 | 2.56 | 0.117 | 0.106 | m |
| Freon 12 (CCl2F2) | 0.448 | 0.0688 | 0.0615 | 2.22 | 0.340 | 0.304 | |
| Freon 114 (C2Cl2F4) | ND | 0.704 | 0.0615 | ND | 4.92 | 0.430 | |
| Chloromethane | 0.455 | 0.0695 | 0.0615 | 0.940 | 0.143 | 0.127 | |
| Chloroethene (Vinyl chloride) | ND | 0.0702 | 0.0615 | ND | 0.179 | 0.157 | |
| 1,3-Butadiene | 0.137 | 0.0684 | 0.0615 | 0.303 | 0.151 | 0.136 | |
| Bromomethane | ND | 0.0689 | 0.0615 | ND | 0.268 | 0.239 | |
| Chloroethane | ND | 0.0714 | 0.0615 | ND | 0.188 | 0.162 | |
| Bromoethene (Vinyl bromide) | ND | 0.0687 | 0.0615 | ND | 0.300 | 0.269 | |
| Freon 11 (CCl3F) | 0.218 | 0.0741 | 0.0615 | 1.23 | 0.416 | 0.345 | |
| Ethanol | 1.94 | 0.0697 | 0.0703 | 3.66 | 0.131 | 0.132 | |
| Acrolein | 0.197 | 0.0692 | 0.0615 | 0.450 | 0.159 | 0.141 | |
| Freon 113 (C2Cl3F3) | 0.0642 | 0.0713 | 0.0615 | 0.492 | 0.546 | 0.471 | J |
| 1,1-Dichloroethene | ND | 0.0707 | 0.0615 | ND | 0.280 | 0.244 | |
| Acetone | 3.25 | 0.0704 | 0.0615 | 7.72 | 0.167 | 0.146 | |
| Carbon disulfide | 0.319 | 0.0701 | 0.0615 | 0.992 | 0.218 | 0.191 | |
| Isopropyl alcohol | 0.547 | 0.0701 | 0.0615 | 1.34 | 0.172 | 0.151 | |
| Allyl chloride (3-chloropropene) | ND | 0.0759 | 0.0615 | ND | 0.237 | 0.192 | |
| Acetonitrile | 1.35 | 0.0701 | 0.0615 | 2.26 | 0.118 | 0.103 | |
| Methylene chloride | 0.179 | 0.0720 | 0.0615 | 0.623 | 0.250 | 0.213 | |
| trans-1,2-Dichloroethene | ND | 0.0717 | 0.0615 | ND | 0.284 | 0.244 | |
| Methyl tert-butyl ether | ND | 0.0723 | 0.0615 | ND | 0.260 | 0.222 | |
| Acrylonitrile | ND | 0.0715 | 0.0615 | ND | 0.155 | 0.133 | |
| Hexane | 0.192 | 0.0714 | 0.0615 | 0.677 | 0.252 | 0.217 | |
| 1,1-Dichloroethane | ND | 0.0698 | 0.0615 | ND | 0.282 | 0.249 | |
| Vinyl acetate | ND | 0.0719 | 0.0615 | ND | 0.253 | 0.216 | |
| cis-1,2-Dichloroethene | ND | 0.0710 | 0.0615 | ND | 0.281 | 0.244 | |
| Methyl ethyl ketone (2-Butanone) | 0.370 | 0.0727 | 0.0615 | 1.09 | 0.214 | 0.181 | |
| Ethyl acetate | 0.122 | 0.0701 | 0.0615 | 0.440 | 0.253 | 0.221 | m |
| Chloroform | ND | 0.0705 | 0.0615 | ND | 0.344 | 0.300 | |
| Tetrahydrofuran | ND | 0.0711 | 0.0615 | ND | 0.210 | 0.181 | |
| 1,1,1-Trichloroethane | ND | 0.0710 | 0.0615 | ND | 0.387 | 0.335 | |
| Cyclohexane | 0.173 | 0.0720 | 0.0615 | 0.597 | 0.248 | 0.212 | |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_221108-S
Sample Info. 1022-148; 500mL load; Can #R5116
Sampling Date 2022-11-08 13:20
Received Date 2022-11-11 00:00
Sample Type Sample
Batch Xavier_X111122C.v1
Data File X2202184.D
Dilution 1.000
Pressurization Factor 1.757
Acquisition Date 2022-11-12 05:24
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-148.VOC05_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Carbon tetrachloride | 0.0800 | 0.0708 | 0.0615 | 0.503 | 0.445 | 0.387 | |
| Benzene | 38.4 | 0.0707 | 0.0615 | 123 | 0.226 | 0.196 | |
| 2,2,4-trimethylpentane | ND | 0.0727 | 0.0615 | ND | 0.339 | 0.287 | |
| 1,2-Dichloroethane | ND | 0.0723 | 0.0615 | ND | 0.293 | 0.249 | |
| Heptane | 0.119 | 0.0712 | 0.0615 | 0.487 | 0.292 | 0.252 | |
| Trichloroethene | ND | 0.0711 | 0.0615 | ND | 0.382 | 0.330 | |
| 1,2-Dichloropropane | ND | 0.0708 | 0.0615 | ND | 0.327 | 0.284 | |
| Methyl methacrylate | ND | 0.0736 | 0.0615 | ND | 0.301 | 0.252 | |
| 1,4-Dioxane | ND | 0.0705 | 0.0615 | ND | 0.254 | 0.221 | |
| Bromodichloromethane | ND | 0.0710 | 0.0615 | ND | 0.475 | 0.412 | |
| cis-1,3-Dichloropropene | ND | 0.0698 | 0.0615 | ND | 0.317 | 0.279 | |
| Methyl isobutyl ketone | ND | 0.0730 | 0.0615 | ND | 0.299 | 0.252 | |
| Toluene | 3.52 | 0.0715 | 0.0615 | 13.3 | 0.269 | 0.232 | |
| trans-1,3-Dichloropropene | ND | 0.0725 | 0.0615 | ND | 0.329 | 0.279 | |
| 1,1,2-Trichloroethane | ND | 0.0715 | 0.0615 | ND | 0.390 | 0.335 | |
| Tetrachloroethene | ND | 0.0719 | 0.0615 | ND | 0.487 | 0.417 | |
| 2-Hexanone (Methyl butyl ketone) | ND | 0.0719 | 0.0615 | ND | 0.294 | 0.252 | |
| Dibromochloromethane | ND | 0.0708 | 0.0615 | ND | 0.603 | 0.524 | |
| 1,2-Dibromoethane | ND | 0.0719 | 0.0615 | ND | 0.552 | 0.472 | |
| Chlorobenzene | ND | 0.0724 | 0.0615 | ND | 0.333 | 0.283 | |
| Ethylbenzene | 0.0667 | 0.0698 | 0.0615 | 0.290 | 0.303 | 0.267 | J |
| 1,1,1,2-Tetrachloroethane | ND | 0.0708 | 0.0615 | ND | 0.486 | 0.422 | |
| m-/p-Xylenes | 0.586 | 0.0713 | 0.0615 | 2.54 | 0.309 | 0.267 | |
| o-Xylene | 0.159 | 0.0704 | 0.0615 | 0.691 | 0.306 | 0.267 | |
| Styrene | 0.380 | 0.0689 | 0.0615 | 1.62 | 0.293 | 0.262 | |
| Bromoform | ND | 0.0705 | 0.0615 | ND | 0.728 | 0.635 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0711 | 0.0615 | ND | 0.488 | 0.422 | |
| 4-Ethyltoluene | ND | 0.0715 | 0.0615 | ND | 0.351 | 0.302 | |
| 2-Chlorotoluene | ND | 0.0709 | 0.0615 | ND | 0.367 | 0.318 | |
| 1,3,5-Trimethylbenzene | ND | 0.0713 | 0.0615 | ND | 0.350 | 0.302 | |
| 1,2,4-Trimethylbenzene | 0.0769 | 0.0704 | 0.0615 | 0.378 | 0.346 | 0.302 | |
| 1,3-Dichlorobenzene | ND | 0.0714 | 0.0615 | ND | 0.429 | 0.370 | |
| 1,4-Dichlorobenzene | ND | 0.0706 | 0.0615 | ND | 0.424 | 0.370 | |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_221108-S
 Sample Info. 1022-148; 500mL load; Can #R5116
 Sampling Date 2022-11-08 13:20
 Received Date 2022-11-11 00:00
 Sample Type Sample
 Batch Xavier_X111122C.v1
 Data File X2202184.D
 Dilution 1.000
 Pressurization Factor 1.757
 Acquisition Date 2022-11-12 05:24
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-148.VOC05_221108-S.Can

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Benzyl chloride | ND | 0.0707 | 0.0615 | ND | 0.366 | 0.318 | |
| 1,2-Dichlorobenzene | ND | 0.0712 | 0.0615 | ND | 0.428 | 0.370 | |
| 1,2,4-Trichlorobenzene | ND | 0.0700 | 0.0615 | ND | 0.519 | 0.456 | |
| Hexachlorobutadiene | ND | 0.0694 | 0.0615 | ND | 0.740 | 0.655 | |
| Naphthalene | 4.50 | 0.0708 | 0.0615 | 23.6 | 0.371 | 0.322 | |
| 1-Bromopropane | ND | 0.0697 | 0.0615 | ND | 0.350 | 0.309 | |
| 1-Octene | ND | 0.0694 | 0.0615 | ND | 0.318 | 0.282 | |
| n-Octane | ND | 0.0724 | 0.0615 | ND | 0.338 | 0.287 | |
| Isopropylbenzene | ND | 0.0714 | 0.0615 | ND | 0.351 | 0.302 | |
| n-Propylbenzene | ND | 0.0721 | 0.0615 | ND | 0.354 | 0.302 | |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 951,406 | 11.05 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,658,916 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,146,001 | 16.61 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical -- Canister Pressurization

Job No. 1022-148
Company All4, Inc.
Site U.S. Steel Corp-Clariton Works-Clariton, PA ICR

| | | | | |
|----------------------|----------------|----------------|----------------|----------------|
| Can Number | 000010 | 1762 | 1791 | R5116 |
| Job | 1022-148 | 1022-148 | 1022-148 | 1022-148 |
| Sample ID | VOC03_221108-S | VOC01_221108-S | VOC02_221108-S | VOC05_221108-S |
| CleanDate | 07/21/2022 | 07/20/2022 | 08/01/2022 | 07/21/2022 |
| LeakCheckDate | 07/22/2022 | 07/19/2022 | 08/01/2022 | 07/22/2022 |
| LeakCheckAnalyst | aamears | aamears | aamears | aamears |
| BlankCheckRef | X2201401 | X2201380 | X2201465 | X2201400 |
| Weather Station ID | 81 | 81 | 81 | 81 |
| Weather Station Exp. | 12/14/2022 | 12/14/2022 | 12/14/2022 | 12/14/2022 |
| Transducer ID | 3 | 3 | 3 | 3 |
| Transducer Exp. | 02/22/2023 | 02/22/2023 | 02/22/2023 | 02/22/2023 |
| Can Size (L) | 6 | 6 | 6 | 6 |
| Evac Temp (F) | 68.9 | 68.9 | 68.9 | 68.9 |
| Evac Pbar (mmHg) | 765.6 | 765.6 | 765.6 | 765.6 |
| Evac Gauge (mmHg) | -765.6 | -765.6 | -765.6 | -765.6 |
| Evac Analyst | aamears | aamears | aamears | aamears |
| Evac Time | 10/31/22 11:02 | 10/31/22 10:41 | 10/31/22 10:18 | 10/31/22 11:09 |
| Evac Vol (L) | 0.000 | 0.000 | 0.000 | 0.000 |
| Recd. Temp (F) | 71.0 | 71.0 | 71.0 | 71.0 |
| Recd. Pbar (mmHg) | 753.6 | 753.6 | 753.6 | 753.6 |
| Recd. Gauge (mmHg) | -119.0 | -128.0 | -44.0 | -150.0 |
| Recd Vol (L) | 4.982 | 4.911 | 5.571 | 4.738 |
| P1 Temp (F) | 71.0 | 71.0 | 71.0 | 71.0 |
| P1 Pbar (mmHg) | 753.6 | 753.6 | 753.6 | 753.6 |
| P1 Gauge (mmHg) | 367.0 | 344.0 | 497.0 | 307.0 |
| P1 Analyst | maroberts | maroberts | maroberts | maroberts |
| P1 Time | 11/29/22 12:36 | 11/29/22 12:28 | 11/29/22 12:35 | 11/29/22 12:37 |
| P1 Vol (L) | 8.797 | 8.616 | 9.817 | 8.326 |
| P1 DF Override | false | false | false | false |
| P1 Dilution Factor | 1.766 | 1.754 | 1.762 | 1.757 |

Lab QC

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-148.VOC02_221108-S.LD
 Sample Info. 1022-148; 500mL load; Can #1791
 Sampling Date 2022-11-08 13:36
 Received Date 2022-11-11 00:00
 Sample Type LabDup
 Batch Xavier_X111122C.v1
 Data File X2202182.D
 Dilution 1.000
 Pressurization Factor 1.762
 Acquisition Date 2022-11-12 03:35
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-148.VOC02_221108-S.LD

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Dup Diff (%) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|--------------|---------|
| Propylene | 0.997 | 0.0681 | 0.0617 | 1.71 | 0.117 | 0.106 | 5.0 | pass |
| Freon 12 (CCl2F2) | 0.447 | 0.0690 | 0.0617 | 2.21 | 0.341 | 0.305 | 0.9 | pass |
| Freon 114 (C2Cl2F4) | ND | 0.706 | 0.0617 | ND | 4.93 | 0.431 | | |
| Chloromethane | 0.514 | 0.0697 | 0.0617 | 1.06 | 0.144 | 0.127 | 5.6 | pass |
| Chloroethene (Vinyl chloride) | ND | 0.0704 | 0.0617 | ND | 0.180 | 0.158 | | |
| 1,3-Butadiene | ND | 0.0686 | 0.0617 | ND | 0.152 | 0.136 | | |
| Bromomethane | ND | 0.0692 | 0.0617 | ND | 0.268 | 0.239 | | |
| Chloroethane | ND | 0.0716 | 0.0617 | ND | 0.189 | 0.163 | | |
| Bromoethene (Vinyl bromide) | ND | 0.0689 | 0.0617 | ND | 0.301 | 0.270 | | |
| Freon 11 (CCl3F) | 0.220 | 0.0744 | 0.0617 | 1.24 | 0.418 | 0.346 | 1.0 | pass |
| Ethanol | 1.67 | 0.0699 | 0.0705 | 3.15 | 0.132 | 0.133 | 0.6 | pass |
| Acrolein | 0.127 | 0.0694 | 0.0617 | 0.292 | 0.159 | 0.141 | 5.4 | pass |
| Freon 113 (C2Cl3F3) | 0.0707 | 0.0716 | 0.0617 | 0.542 | 0.548 | 0.472 | 4.6 | pass, J |
| 1,1-Dichloroethene | ND | 0.0709 | 0.0617 | ND | 0.281 | 0.244 | | |
| Acetone | 1.39 | 0.0706 | 0.0617 | 3.29 | 0.168 | 0.146 | 3.5 | pass |
| Carbon disulfide | 0.0869 | 0.0703 | 0.0617 | 0.271 | 0.219 | 0.192 | 5.6 | pass |
| Isopropyl alcohol | 0.315 | 0.0703 | 0.0617 | 0.775 | 0.173 | 0.152 | 5.5 | pass |
| Allyl chloride (3-chloropropene) | ND | 0.0761 | 0.0617 | ND | 0.238 | 0.193 | | |
| Acetonitrile | 0.173 | 0.0703 | 0.0617 | 0.291 | 0.118 | 0.103 | 0.4 | pass |
| Methylene chloride | 0.112 | 0.0722 | 0.0617 | 0.390 | 0.251 | 0.214 | 2.8 | pass |
| trans-1,2-Dichloroethene | ND | 0.0719 | 0.0617 | ND | 0.285 | 0.244 | | |
| Methyl tert-butyl ether | ND | 0.0725 | 0.0617 | ND | 0.261 | 0.222 | | |
| Acrylonitrile | ND | 0.0718 | 0.0617 | ND | 0.156 | 0.134 | | |
| Hexane | 0.168 | 0.0716 | 0.0617 | 0.593 | 0.252 | 0.217 | 8.9 | pass |
| 1,1-Dichloroethane | ND | 0.0700 | 0.0617 | ND | 0.283 | 0.250 | | |
| Vinyl acetate | ND | 0.0721 | 0.0617 | ND | 0.254 | 0.217 | | |
| cis-1,2-Dichloroethene | ND | 0.0712 | 0.0617 | ND | 0.282 | 0.244 | | |
| Methyl ethyl ketone (2-Butanone) | 0.174 | 0.0729 | 0.0617 | 0.513 | 0.215 | 0.182 | 9.4 | pass |
| Ethyl acetate | 0.0943 | 0.0704 | 0.0617 | 0.340 | 0.253 | 0.222 | 3.8 | pass, m |
| Chloroform | ND | 0.0707 | 0.0617 | ND | 0.345 | 0.301 | | |
| Tetrahydrofuran | ND | 0.0713 | 0.0617 | ND | 0.210 | 0.182 | | |
| 1,1,1-Trichloroethane | ND | 0.0712 | 0.0617 | ND | 0.388 | 0.336 | | |
| Cyclohexane | 0.225 | 0.0723 | 0.0617 | 0.774 | 0.249 | 0.212 | 16.6 | pass |
| Carbon tetrachloride | 0.0766 | 0.0710 | 0.0617 | 0.481 | 0.446 | 0.388 | 3.5 | pass |
| Benzene | 2.60 | 0.0709 | 0.0617 | 8.29 | 0.226 | 0.197 | 1.0 | pass |
| 2,2,4-trimethylpentane | ND | 0.0729 | 0.0617 | ND | 0.340 | 0.288 | | |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-148.VOC02_221108-S.LD
 Sample Info. 1022-148; 500mL load; Can #1791
 Sampling Date 2022-11-08 13:36
 Received Date 2022-11-11 00:00
 Sample Type LabDup
 Batch Xavier_X111122C.v1
 Data File X2202182.D
 Dilution 1.000
 Pressurization Factor 1.762
 Acquisition Date 2022-11-12 03:35
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-148.VOC02_221108-S.LD

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Dup Diff (%) | Flags |
|----------------------------------|-------------------------|--------------|---------------|--------------------------|---------------|----------------|-----------------|---------|
| 1,2-Dichloroethane | ND | 0.0725 | 0.0617 | ND | 0.293 | 0.250 | | |
| Heptane | 0.133 | 0.0714 | 0.0617 | 0.543 | 0.292 | 0.253 | 0.7 | pass |
| Trichloroethene | ND | 0.0713 | 0.0617 | ND | 0.383 | 0.331 | | |
| 1,2-Dichloropropane | ND | 0.0710 | 0.0617 | ND | 0.328 | 0.285 | | |
| Methyl methacrylate | ND | 0.0738 | 0.0617 | ND | 0.302 | 0.252 | | |
| 1,4-Dioxane | ND | 0.0707 | 0.0617 | ND | 0.255 | 0.222 | | |
| Bromodichloromethane | ND | 0.0712 | 0.0617 | ND | 0.477 | 0.413 | | |
| cis-1,3-Dichloropropene | ND | 0.0700 | 0.0617 | ND | 0.318 | 0.280 | | |
| Methyl isobutyl ketone | ND | 0.0732 | 0.0617 | ND | 0.300 | 0.253 | | |
| Toluene | 0.720 | 0.0718 | 0.0617 | 2.71 | 0.270 | 0.232 | 0.2 | pass |
| trans-1,3-Dichloropropene | ND | 0.0728 | 0.0617 | ND | 0.330 | 0.280 | | |
| 1,1,2-Trichloroethane | ND | 0.0717 | 0.0617 | ND | 0.391 | 0.336 | | |
| Tetrachloroethene | ND | 0.0721 | 0.0617 | ND | 0.489 | 0.418 | | |
| 2-Hexanone (Methyl butyl ketone) | ND | 0.0721 | 0.0617 | ND | 0.295 | 0.253 | | |
| Dibromochloromethane | ND | 0.0711 | 0.0617 | ND | 0.605 | 0.525 | | |
| 1,2-Dibromoethane | ND | 0.0721 | 0.0617 | ND | 0.554 | 0.474 | | |
| Chlorobenzene | ND | 0.0726 | 0.0617 | ND | 0.334 | 0.284 | | |
| Ethylbenzene | ND | 0.0700 | 0.0617 | ND | 0.304 | 0.268 | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0711 | 0.0617 | ND | 0.488 | 0.423 | | |
| m-/p-Xylenes | 0.296 | 0.0715 | 0.0617 | 1.29 | 0.310 | 0.268 | 1.7 | pass |
| o-Xylene | 0.0989 | 0.0706 | 0.0617 | 0.429 | 0.307 | 0.268 | 5.0 | pass, m |
| Styrene | 0.136 | 0.0691 | 0.0617 | 0.578 | 0.294 | 0.263 | 1.2 | pass |
| Bromoform | ND | 0.0707 | 0.0617 | ND | 0.730 | 0.637 | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0713 | 0.0617 | ND | 0.489 | 0.423 | | |
| 4-Ethyltoluene | ND | 0.0717 | 0.0617 | ND | 0.352 | 0.303 | | |
| 2-Chlorotoluene | ND | 0.0711 | 0.0617 | ND | 0.368 | 0.319 | | |
| 1,3,5-Trimethylbenzene | ND | 0.0715 | 0.0617 | ND | 0.351 | 0.303 | | |
| 1,2,4-Trimethylbenzene | 0.0987 | 0.0706 | 0.0617 | 0.485 | 0.347 | 0.303 | 7.3 | pass |
| 1,3-Dichlorobenzene | ND | 0.0716 | 0.0617 | ND | 0.430 | 0.371 | | |
| 1,4-Dichlorobenzene | ND | 0.0708 | 0.0617 | ND | 0.426 | 0.371 | | |
| Benzyl chloride | ND | 0.0709 | 0.0617 | ND | 0.367 | 0.319 | | |
| 1,2-Dichlorobenzene | ND | 0.0714 | 0.0617 | ND | 0.429 | 0.371 | | |
| 1,2,4-Trichlorobenzene | ND | 0.0702 | 0.0617 | ND | 0.521 | 0.457 | | |
| Hexachlorobutadiene | ND | 0.0696 | 0.0617 | ND | 0.742 | 0.657 | | |
| Naphthalene | 5.50 | 0.0710 | 0.0617 | 28.8 | 0.372 | 0.323 | 3.8 | pass |
| 1-Bromopropane | ND | 0.0699 | 0.0617 | ND | 0.352 | 0.310 | | |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-148.VOC02_221108-S.LD
 Sample Info. 1022-148; 500mL load; Can #1791
 Sampling Date 2022-11-08 13:36
 Received Date 2022-11-11 00:00
 Sample Type LabDup
 Batch Xavier_X111122C.v1
 Data File X2202182.D
 Dilution 1.000
 Pressurization Factor 1.762
 Acquisition Date 2022-11-12 03:35
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-148.VOC02_221108-S.LD

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Dup Diff (%) | Flags |
|------------------|----------------------|-----------|------------|-----------------------|------------|-------------|--------------|-------|
| 1-Octene | ND | 0.0696 | 0.0617 | ND | 0.319 | 0.283 | | |
| n-Octane | 0.106 | 0.0726 | 0.0617 | 0.497 | 0.339 | 0.288 | 17.4 | pass |
| Isopropylbenzene | ND | 0.0716 | 0.0617 | ND | 0.352 | 0.303 | | |
| n-Propylbenzene | ND | 0.0723 | 0.0617 | ND | 0.355 | 0.303 | | |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 964,516 | 11.05 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,678,002 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,173,466 | 16.61 | 4.92 | pass |

(ND) = Not Detected
 (J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration
 IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name Humid Blank Can #1861
 Sample Info. 500mL Load; Can #1861
 Sample Type Blank
 Batch Xavier_X111122C.v1
 Data File X2202174.D
 Dilution 1.000
 Pressurization Factor 1.000
 Acquisition Date 2022-11-11 20:21
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID Humid Blank Can #1861

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Propylene | ND | 0.0386 | 0.0350 | ND | 0.0665 | 0.0602 | pass |
| Freon 12 (CCl2F2) | ND | 0.0392 | 0.0350 | ND | 0.194 | 0.173 | pass |
| Freon 114 (C2Cl2F4) | ND | 0.401 | 0.0350 | ND | 2.80 | 0.245 | pass |
| Chloromethane | ND | 0.0396 | 0.0350 | ND | 0.0816 | 0.0722 | pass |
| Chloroethene (Vinyl chloride) | ND | 0.0400 | 0.0350 | ND | 0.102 | 0.0894 | pass |
| 1,3-Butadiene | ND | 0.0389 | 0.0350 | ND | 0.0860 | 0.0774 | pass |
| Bromomethane | ND | 0.0392 | 0.0350 | ND | 0.152 | 0.136 | pass |
| Chloroethane | ND | 0.0406 | 0.0350 | ND | 0.107 | 0.0923 | pass |
| Bromoethene (Vinyl bromide) | ND | 0.0391 | 0.0350 | ND | 0.171 | 0.153 | pass |
| Freon 11 (CCl3F) | ND | 0.0422 | 0.0350 | ND | 0.237 | 0.197 | pass |
| Ethanol | ND | 0.0396 | 0.0400 | ND | 0.0746 | 0.0753 | pass |
| Acrolein | ND | 0.0394 | 0.0350 | ND | 0.0903 | 0.0802 | pass |
| Freon 113 (C2Cl3F3) | ND | 0.0406 | 0.0350 | ND | 0.311 | 0.268 | pass |
| 1,1-Dichloroethene | ND | 0.0402 | 0.0350 | ND | 0.159 | 0.139 | pass |
| Acetone | 0.0426 | 0.0401 | 0.0350 | 0.101 | 0.0951 | 0.0831 | pass |
| Carbon disulfide | ND | 0.0399 | 0.0350 | ND | 0.124 | 0.109 | pass |
| Isopropyl alcohol | ND | 0.0399 | 0.0350 | ND | 0.0980 | 0.0860 | pass |
| Allyl chloride (3-chloropropene) | ND | 0.0432 | 0.0350 | ND | 0.135 | 0.109 | pass |
| Acetonitrile | ND | 0.0399 | 0.0350 | ND | 0.0669 | 0.0587 | pass |
| Methylene chloride | ND | 0.0410 | 0.0350 | ND | 0.142 | 0.122 | pass |
| trans-1,2-Dichloroethene | ND | 0.0408 | 0.0350 | ND | 0.162 | 0.139 | pass |
| Methyl tert-butyl ether | ND | 0.0411 | 0.0350 | ND | 0.148 | 0.126 | pass |
| Acrylonitrile | ND | 0.0407 | 0.0350 | ND | 0.0883 | 0.0759 | pass |
| Hexane | ND | 0.0406 | 0.0350 | ND | 0.143 | 0.123 | pass |
| 1,1-Dichloroethane | ND | 0.0397 | 0.0350 | ND | 0.161 | 0.142 | pass |
| Vinyl acetate | ND | 0.0409 | 0.0350 | ND | 0.144 | 0.123 | pass |
| cis-1,2-Dichloroethene | ND | 0.0404 | 0.0350 | ND | 0.160 | 0.139 | pass |
| Methyl ethyl ketone (2-Butanone) | ND | 0.0414 | 0.0350 | ND | 0.122 | 0.103 | pass |
| Ethyl acetate | ND | 0.0399 | 0.0350 | ND | 0.144 | 0.126 | pass |
| Chloroform | ND | 0.0401 | 0.0350 | ND | 0.196 | 0.171 | pass |
| Tetrahydrofuran | ND | 0.0405 | 0.0350 | ND | 0.119 | 0.103 | pass |
| 1,1,1-Trichloroethane | ND | 0.0404 | 0.0350 | ND | 0.220 | 0.191 | pass |
| Cyclohexane | ND | 0.0410 | 0.0350 | ND | 0.141 | 0.120 | pass |
| Carbon tetrachloride | ND | 0.0403 | 0.0350 | ND | 0.253 | 0.220 | pass |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name Humid Blank Can #1861
 Sample Info. 500mL Load; Can #1861
 Sample Type Blank
 Batch Xavier_X111122C.v1
 Data File X2202174.D
 Dilution 1.000
 Pressurization Factor 1.000
 Acquisition Date 2022-11-11 20:21
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID Humid Blank Can #1861

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|----------------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| Benzene | ND | 0.0402 | 0.0350 | ND | 0.128 | 0.112 | pass |
| 2,2,4-trimethylpentane | ND | 0.0414 | 0.0350 | ND | 0.193 | 0.163 | pass |
| 1,2-Dichloroethane | ND | 0.0412 | 0.0350 | ND | 0.166 | 0.142 | pass |
| Heptane | ND | 0.0405 | 0.0350 | ND | 0.166 | 0.143 | pass |
| Trichloroethene | ND | 0.0404 | 0.0350 | ND | 0.217 | 0.188 | pass |
| 1,2-Dichloropropane | ND | 0.0403 | 0.0350 | ND | 0.186 | 0.162 | pass |
| Methyl methacrylate | ND | 0.0419 | 0.0350 | ND | 0.171 | 0.143 | pass |
| 1,4-Dioxane | ND | 0.0401 | 0.0350 | ND | 0.144 | 0.126 | pass |
| Bromodichloromethane | ND | 0.0404 | 0.0350 | ND | 0.271 | 0.234 | pass |
| cis-1,3-Dichloropropene | ND | 0.0397 | 0.0350 | ND | 0.180 | 0.159 | pass |
| Methyl isobutyl ketone | ND | 0.0416 | 0.0350 | ND | 0.170 | 0.143 | pass |
| Toluene | ND | 0.0407 | 0.0350 | ND | 0.153 | 0.132 | pass |
| trans-1,3-Dichloropropene | ND | 0.0413 | 0.0350 | ND | 0.187 | 0.159 | pass |
| 1,1,2-Trichloroethane | ND | 0.0407 | 0.0350 | ND | 0.222 | 0.191 | pass |
| Tetrachloroethene | ND | 0.0409 | 0.0350 | ND | 0.277 | 0.237 | pass |
| 2-Hexanone (Methyl butyl ketone) | ND | 0.0409 | 0.0350 | ND | 0.168 | 0.143 | pass |
| Dibromochloromethane | ND | 0.0403 | 0.0350 | ND | 0.343 | 0.298 | pass |
| 1,2-Dibromoethane | ND | 0.0409 | 0.0350 | ND | 0.314 | 0.269 | pass |
| Chlorobenzene | ND | 0.0412 | 0.0350 | ND | 0.190 | 0.161 | pass |
| Ethylbenzene | ND | 0.0397 | 0.0350 | ND | 0.172 | 0.152 | pass |
| 1,1,1,2-Tetrachloroethane | ND | 0.0403 | 0.0350 | ND | 0.277 | 0.240 | pass |
| m-/p-Xylenes | ND | 0.0406 | 0.0350 | ND | 0.176 | 0.152 | pass |
| o-Xylene | ND | 0.0401 | 0.0350 | ND | 0.174 | 0.152 | pass |
| Styrene | ND | 0.0392 | 0.0350 | ND | 0.167 | 0.149 | pass |
| Bromoform | ND | 0.0401 | 0.0350 | ND | 0.414 | 0.362 | pass |
| 1,1,2,2-Tetrachloroethane | ND | 0.0404 | 0.0350 | ND | 0.277 | 0.240 | pass |
| 4-Ethyltoluene | ND | 0.0407 | 0.0350 | ND | 0.200 | 0.172 | pass |
| 2-Chlorotoluene | ND | 0.0404 | 0.0350 | ND | 0.209 | 0.181 | pass |
| 1,3,5-Trimethylbenzene | ND | 0.0406 | 0.0350 | ND | 0.199 | 0.172 | pass |
| 1,2,4-Trimethylbenzene | ND | 0.0400 | 0.0350 | ND | 0.197 | 0.172 | pass |
| 1,3-Dichlorobenzene | ND | 0.0406 | 0.0350 | ND | 0.244 | 0.210 | pass |
| 1,4-Dichlorobenzene | ND | 0.0402 | 0.0350 | ND | 0.242 | 0.210 | pass |
| Benzyl chloride | ND | 0.0402 | 0.0350 | ND | 0.208 | 0.181 | pass |
| 1,2-Dichlorobenzene | ND | 0.0405 | 0.0350 | ND | 0.243 | 0.210 | pass |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name Humid Blank Can #1861
Sample Info. 500mL Load; Can #1861
Sample Type Blank
Batch Xavier_X111122C.v1
Data File X2202174.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 20:21
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID Humid Blank Can #1861

| Target Compound | Concentration (ppbv) | RL (ppbv) | MDL (ppbv) | Concentration (ug/m³) | RL (ug/m³) | MDL (ug/m³) | Flags |
|------------------------|----------------------|-----------|------------|-----------------------|------------|-------------|-------|
| 1,2,4-Trichlorobenzene | ND | 0.0398 | 0.0350 | ND | 0.295 | 0.260 | pass |
| Hexachlorobutadiene | ND | 0.0395 | 0.0350 | ND | 0.421 | 0.373 | pass |
| Naphthalene | ND | 0.0403 | 0.0350 | ND | 0.211 | 0.183 | pass |
| 1-Bromopropane | ND | 0.0397 | 0.0350 | ND | 0.199 | 0.176 | pass |
| 1-Octene | ND | 0.0395 | 0.0350 | ND | 0.181 | 0.161 | pass |
| n-Octane | ND | 0.0412 | 0.0350 | ND | 0.192 | 0.163 | pass |
| Isopropylbenzene | ND | 0.0406 | 0.0350 | ND | 0.200 | 0.172 | pass |
| n-Propylbenzene | ND | 0.0410 | 0.0350 | ND | 0.202 | 0.172 | pass |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 923,971 | 11.05 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,482,415 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,093,890 | 16.60 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X111122C.v1
Data File X2202169.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 15:59
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

| Target Compound | Response | Concentration (ppbv) | Expected Conc (ppbv) | Recovery (%) | Flags |
|----------------------------------|-----------|----------------------|----------------------|--------------|---------|
| Propylene | 737,469 | 4.57 | 4.83 | 94.6 | pass |
| Freon 12 (CCl2F2) | 2,217,937 | 4.76 | 4.90 | 97.2 | pass |
| Freon 114 (C2Cl2F4) | 2,411,083 | 5.00 | 5.01 | 99.8 | pass |
| Chloromethane | 799,099 | 4.76 | 4.95 | 96.3 | pass |
| Chloroethene (Vinyl chloride) | 508,625 | 5.13 | 5.00 | 102.8 | pass, m |
| 1,3-Butadiene | 872,583 | 5.23 | 4.87 | 107.4 | pass |
| Bromomethane | 495,049 | 4.62 | 4.91 | 94.2 | pass, m |
| Chloroethane | 384,153 | 4.83 | 5.08 | 95.1 | pass |
| Bromoethene (Vinyl bromide) | 868,992 | 4.54 | 4.89 | 92.9 | pass |
| Freon 11 (CCl3F) | 2,393,428 | 5.15 | 5.28 | 97.7 | pass |
| Ethanol | 354,126 | 3.78 | 4.96 | 76.3 | pass |
| Acrolein | 278,832 | 4.23 | 4.93 | 85.9 | pass |
| Freon 113 (C2Cl3F3) | 1,567,982 | 4.68 | 5.08 | 92.1 | pass |
| 1,1-Dichloroethene | 1,372,532 | 4.58 | 5.03 | 91.1 | pass |
| Acetone | 1,458,631 | 4.23 | 5.01 | 84.5 | pass |
| Carbon disulfide | 2,120,336 | 4.50 | 4.99 | 90.3 | pass |
| Isopropyl alcohol | 1,544,083 | 4.37 | 4.99 | 87.7 | pass |
| Allyl chloride (3-chloropropene) | 304,850 | 4.52 | 5.04 | 89.7 | pass |
| Acetonitrile | 765,171 | 4.83 | 4.99 | 96.8 | pass |
| Methylene chloride | 1,162,255 | 4.54 | 5.12 | 88.7 | pass |
| trans-1,2-Dichloroethene | 1,165,383 | 4.77 | 5.10 | 93.5 | pass |
| Methyl tert-butyl ether | 1,977,772 | 4.79 | 5.14 | 93.3 | pass |
| Acrylonitrile | 581,943 | 4.48 | 5.09 | 88.0 | pass |
| Hexane | 1,184,333 | 4.78 | 5.08 | 94.2 | pass |
| 1,1-Dichloroethane | 1,390,936 | 4.68 | 4.97 | 94.3 | pass |
| Vinyl acetate | 2,210,139 | 4.57 | 5.12 | 89.4 | pass |
| cis-1,2-Dichloroethene | 1,349,287 | 5.01 | 5.05 | 99.1 | pass |
| Methyl ethyl ketone (2-Butanone) | 352,853 | 4.76 | 5.17 | 92.1 | pass, m |
| Ethyl acetate | 336,652 | 4.69 | 4.99 | 94.0 | pass |
| Chloroform | 1,699,659 | 4.83 | 5.02 | 96.4 | pass |
| Tetrahydrofuran | 333,872 | 4.84 | 5.06 | 95.7 | pass |
| 1,1,1-Trichloroethane | 1,739,860 | 4.79 | 5.05 | 94.8 | pass |
| Cyclohexane | 1,209,870 | 4.81 | 5.13 | 93.9 | pass |
| Carbon tetrachloride | 1,992,609 | 4.89 | 5.04 | 97.1 | pass |
| Benzene | 2,205,438 | 4.72 | 5.03 | 93.8 | pass |
| 2,2,4-trimethylpentane | 4,067,260 | 4.95 | 5.17 | 95.8 | pass |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X111122C.v1
Data File X2202169.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 15:59
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

| Target Compound | Response | Concentration (ppbv) | Expected Conc (ppbv) | Recovery (%) | Flags |
|----------------------------------|-----------|----------------------|----------------------|--------------|---------|
| 1,2-Dichloroethane | 1,106,449 | 4.42 | 5.15 | 85.9 | pass |
| Heptane | 766,837 | 4.68 | 5.07 | 92.4 | pass |
| Trichloroethene | 1,308,958 | 4.74 | 5.06 | 93.8 | pass, m |
| 1,2-Dichloropropane | 917,674 | 4.72 | 5.04 | 93.7 | pass |
| Methyl methacrylate | 803,083 | 4.91 | 5.24 | 93.9 | pass |
| 1,4-Dioxane | 498,462 | 4.62 | 5.02 | 92.2 | pass |
| Bromodichloromethane | 1,789,412 | 4.74 | 5.05 | 93.8 | pass |
| cis-1,3-Dichloropropene | 1,260,401 | 4.46 | 4.97 | 89.8 | pass |
| Methyl isobutyl ketone | 2,490,052 | 4.79 | 5.20 | 92.3 | pass |
| Toluene | 3,114,877 | 4.72 | 5.09 | 92.8 | pass |
| trans-1,3-Dichloropropene | 1,357,405 | 4.53 | 5.16 | 87.8 | pass |
| 1,1,2-Trichloroethane | 1,096,315 | 4.73 | 5.09 | 93.0 | pass |
| Tetrachloroethene | 1,766,162 | 4.62 | 5.12 | 90.3 | pass |
| 2-Hexanone (Methyl butyl ketone) | 2,438,940 | 4.79 | 5.12 | 93.7 | pass |
| Dibromochloromethane | 2,489,877 | 5.12 | 5.04 | 101.6 | pass |
| 1,2-Dibromoethane | 1,933,218 | 4.74 | 5.12 | 92.6 | pass |
| Chlorobenzene | 2,794,171 | 4.84 | 5.15 | 93.9 | pass |
| Ethylbenzene | 4,057,136 | 4.72 | 4.97 | 95.1 | pass |
| 1,1,1,2-Tetrachloroethane | 1,662,679 | 4.88 | 5.04 | 96.8 | pass |
| m-/p-Xylenes | 2,965,885 | 4.56 | 5.07 | 90.0 | pass |
| o-Xylene | 3,125,222 | 4.61 | 5.01 | 92.1 | pass |
| Styrene | 2,699,624 | 5.07 | 4.90 | 103.5 | pass |
| Bromoform | 2,588,617 | 5.09 | 5.02 | 101.5 | pass |
| 1,1,2,2-Tetrachloroethane | 2,517,608 | 4.87 | 5.06 | 96.4 | pass |
| 4-Ethyltoluene | 5,304,193 | 5.45 | 5.09 | 107.2 | pass |
| 2-Chlorotoluene | 4,052,141 | 5.04 | 5.05 | 99.9 | pass |
| 1,3,5-Trimethylbenzene | 4,138,875 | 5.12 | 5.07 | 101.0 | pass |
| 1,2,4-Trimethylbenzene | 4,111,194 | 4.99 | 5.01 | 99.6 | pass |
| 1,3-Dichlorobenzene | 3,445,690 | 5.15 | 5.08 | 101.4 | pass |
| 1,4-Dichlorobenzene | 3,532,157 | 5.18 | 5.03 | 103.1 | pass, m |
| Benzyl chloride | 3,781,756 | 5.27 | 5.03 | 104.9 | pass |
| 1,2-Dichlorobenzene | 3,410,656 | 5.29 | 5.07 | 104.5 | pass, m |
| 1,2,4-Trichlorobenzene | 3,056,826 | 5.49 | 4.98 | 110.2 | pass |
| Hexachlorobutadiene | 2,506,051 | 5.17 | 4.94 | 104.6 | pass |
| Naphthalene | 7,916,835 | 6.21 | 5.04 | 123.3 | pass |
| 1-Bromopropane | 1,711,083 | 4.71 | 4.96 | 95.0 | pass |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X111122C.v1
Data File X2202169.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 15:59
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

| Target Compound | Response | Concentration (ppbv) | Expected Conc (ppbv) | Recovery (%) | Flags |
|------------------|-----------|-------------------------|-------------------------|-----------------|-------|
| 1-Octene | 612,695 | 4.54 | 4.94 | 92.0 | pass |
| n-Octane | 815,299 | 4.55 | 5.02 | 90.8 | pass |
| Isopropylbenzene | 4,917,753 | 5.00 | 5.08 | 98.4 | pass |
| n-Propylbenzene | 5,622,464 | 5.09 | 5.13 | 99.2 | pass |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|-------------------------|-------------------------|------|
| Bromochloromethane (IS) | 1,012,745 | 11.05 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,733,261 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,303,139 | 16.61 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X111122C.v1
Data File X2202170.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 16:46
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS LD

| Target Compound | Response | Concentration (ppbv) | Expected Conc (ppbv) | Parent Conc (ppbv) | Recovery (%) | Diff (%) | Flags |
|----------------------------------|-----------|----------------------|----------------------|--------------------|--------------|----------|---------|
| Propylene | 754,735 | 4.47 | 4.83 | 4.57 | 92.5% | 2.2 | pass |
| Freon 12 (CCl2F2) | 2,332,421 | 4.78 | 4.90 | 4.76 | 97.7% | 0.5 | pass |
| Freon 114 (C2Cl2F4) | 2,513,925 | 4.98 | 5.01 | 5.00 | 99.5% | 0.4 | pass |
| Chloromethane | 833,898 | 4.75 | 4.95 | 4.76 | 96.0% | 0.3 | pass |
| Chloroethene (Vinyl chloride) | 516,793 | 4.99 | 5.00 | 5.13 | 99.8% | 3.0 | pass, m |
| 1,3-Butadiene | 900,840 | 5.16 | 4.87 | 5.23 | 106.0% | 1.4 | pass, m |
| Bromomethane | 505,996 | 4.51 | 4.91 | 4.62 | 92.0% | 2.4 | pass, m |
| Chloroethane | 380,768 | 4.57 | 5.08 | 4.83 | 90.0% | 5.4 | pass |
| Bromoethene (Vinyl bromide) | 916,271 | 4.58 | 4.89 | 4.54 | 93.6% | 0.8 | pass |
| Freon 11 (CCl3F) | 2,468,713 | 5.08 | 5.28 | 5.15 | 96.3% | 1.4 | pass |
| Ethanol | 366,377 | 3.74 | 4.96 | 3.78 | 75.5% | 1.1 | pass |
| Acrolein | 288,279 | 4.18 | 4.93 | 4.23 | 84.8% | 1.2 | pass |
| Freon 113 (C2Cl3F3) | 1,753,331 | 5.00 | 5.08 | 4.68 | 98.4% | 6.6 | pass |
| 1,1-Dichloroethene | 1,495,367 | 4.77 | 5.03 | 4.58 | 94.8% | 4.0 | pass |
| Acetone | 1,581,199 | 4.38 | 5.01 | 4.23 | 87.5% | 3.5 | pass |
| Carbon disulfide | 2,345,159 | 4.76 | 4.99 | 4.50 | 95.5% | 5.5 | pass |
| Isopropyl alcohol | 1,755,448 | 4.75 | 4.99 | 4.37 | 95.3% | 8.3 | pass |
| Allyl chloride (3-chloropropene) | 328,781 | 4.66 | 5.04 | 4.52 | 92.5% | 3.0 | pass |
| Acetonitrile | 852,071 | 5.13 | 4.99 | 4.83 | 103.0% | 6.2 | pass |
| Methylene chloride | 1,231,022 | 4.60 | 5.12 | 4.54 | 89.7% | 1.2 | pass |
| trans-1,2-Dichloroethene | 1,222,675 | 4.78 | 5.10 | 4.77 | 93.7% | 0.3 | pass |
| Methyl tert-butyl ether | 2,084,880 | 4.83 | 5.14 | 4.79 | 94.0% | 0.7 | pass |
| Acrylonitrile | 628,739 | 4.63 | 5.09 | 4.48 | 90.9% | 3.2 | pass |
| Hexane | 1,253,333 | 4.84 | 5.08 | 4.78 | 95.2% | 1.1 | pass |
| 1,1-Dichloroethane | 1,449,426 | 4.66 | 4.97 | 4.68 | 93.9% | 0.4 | pass |
| Vinyl acetate | 2,336,848 | 4.62 | 5.12 | 4.57 | 90.3% | 1.0 | pass |
| cis-1,2-Dichloroethene | 1,440,386 | 5.11 | 5.05 | 5.01 | 101.1% | 2.0 | pass |
| Methyl ethyl ketone (2-Butanone) | 355,724 | 4.59 | 5.17 | 4.76 | 88.7% | 3.7 | pass |
| Ethyl acetate | 342,960 | 4.57 | 4.99 | 4.69 | 91.5% | 2.7 | pass |
| Chloroform | 1,772,054 | 4.82 | 5.02 | 4.83 | 96.0% | 0.4 | pass |
| Tetrahydrofuran | 362,123 | 5.02 | 5.06 | 4.84 | 99.2% | 3.6 | pass |
| 1,1,1-Trichloroethane | 1,798,896 | 4.73 | 5.05 | 4.79 | 93.7% | 1.2 | pass |
| Cyclohexane | 1,287,045 | 4.89 | 5.13 | 4.81 | 95.4% | 1.6 | pass |
| Carbon tetrachloride | 2,091,297 | 4.90 | 5.04 | 4.89 | 97.4% | 0.3 | pass |
| Benzene | 2,312,805 | 4.75 | 5.03 | 4.72 | 94.5% | 0.7 | pass |
| 2,2,4-trimethylpentane | 4,260,358 | 4.98 | 5.17 | 4.95 | 96.3% | 0.6 | pass |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X111122C.v1
Data File X2202170.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 16:46
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS LD

| Target Compound | Response | Concentration (ppbv) | Expected Conc (ppbv) | Parent Conc (ppbv) | Recovery (%) | Diff (%) | Flags |
|----------------------------------|-----------|----------------------|----------------------|--------------------|--------------|----------|---------|
| 1,2-Dichloroethane | 1,165,451 | 4.47 | 5.15 | 4.42 | 86.8% | 1.1 | pass |
| Heptane | 821,938 | 4.81 | 5.07 | 4.68 | 95.0% | 2.9 | pass |
| Trichloroethene | 1,343,385 | 4.67 | 5.06 | 4.74 | 92.4% | 1.5 | pass |
| 1,2-Dichloropropane | 976,525 | 4.82 | 5.04 | 4.72 | 95.7% | 2.1 | pass |
| Methyl methacrylate | 842,937 | 4.95 | 5.24 | 4.91 | 94.6% | 0.8 | pass |
| 1,4-Dioxane | 530,856 | 4.73 | 5.02 | 4.62 | 94.3% | 2.2 | pass |
| Bromodichloromethane | 1,880,283 | 4.78 | 5.05 | 4.74 | 94.6% | 0.9 | pass |
| cis-1,3-Dichloropropene | 1,301,620 | 4.42 | 4.97 | 4.46 | 89.0% | 0.9 | pass |
| Methyl isobutyl ketone | 2,608,672 | 4.82 | 5.20 | 4.79 | 92.8% | 0.6 | pass |
| Toluene | 3,258,908 | 4.70 | 5.09 | 4.72 | 92.3% | 0.6 | pass |
| trans-1,3-Dichloropropene | 1,394,683 | 4.43 | 5.16 | 4.53 | 85.8% | 2.4 | pass |
| 1,1,2-Trichloroethane | 1,099,230 | 4.51 | 5.09 | 4.73 | 88.6% | 4.8 | pass |
| Tetrachloroethene | 1,760,417 | 4.37 | 5.12 | 4.62 | 85.5% | 5.4 | pass |
| 2-Hexanone (Methyl butyl ketone) | 2,518,723 | 4.71 | 5.12 | 4.79 | 92.0% | 1.9 | pass |
| Dibromochloromethane | 2,477,466 | 4.84 | 5.04 | 5.12 | 96.0% | 5.6 | pass |
| 1,2-Dibromoethane | 2,007,792 | 4.68 | 5.12 | 4.74 | 91.4% | 1.3 | pass |
| Chlorobenzene | 2,900,240 | 4.77 | 5.15 | 4.84 | 92.6% | 1.4 | pass |
| Ethylbenzene | 4,177,711 | 4.62 | 4.97 | 4.72 | 93.0% | 2.2 | pass |
| 1,1,1,2-Tetrachloroethane | 1,706,251 | 4.76 | 5.04 | 4.88 | 94.4% | 2.5 | pass |
| m-/p-Xylenes | 3,083,889 | 4.51 | 5.07 | 4.56 | 88.9% | 1.2 | pass |
| o-Xylene | 3,218,217 | 4.51 | 5.01 | 4.61 | 90.1% | 2.2 | pass |
| Styrene | 2,771,502 | 4.95 | 4.90 | 5.07 | 101.0% | 2.5 | pass |
| Bromoform | 2,656,029 | 4.96 | 5.02 | 5.09 | 99.0% | 2.5 | pass |
| 1,1,2,2-Tetrachloroethane | 2,572,690 | 4.73 | 5.06 | 4.87 | 93.6% | 2.9 | pass |
| 4-Ethyltoluene | 5,363,278 | 5.24 | 5.09 | 5.45 | 103.0% | 4.0 | pass |
| 2-Chlorotoluene | 4,131,089 | 4.88 | 5.05 | 5.04 | 96.7% | 3.2 | pass |
| 1,3,5-Trimethylbenzene | 4,207,455 | 4.95 | 5.07 | 5.12 | 97.6% | 3.5 | pass |
| 1,2,4-Trimethylbenzene | 4,216,153 | 4.86 | 5.01 | 4.99 | 97.1% | 2.6 | pass |
| 1,3-Dichlorobenzene | 3,543,015 | 5.03 | 5.08 | 5.15 | 99.1% | 2.3 | pass |
| 1,4-Dichlorobenzene | 3,584,039 | 5.00 | 5.03 | 5.18 | 99.5% | 3.6 | pass, m |
| Benzyl chloride | 3,876,096 | 5.14 | 5.03 | 5.27 | 102.1% | 2.6 | pass |
| 1,2-Dichlorobenzene | 3,474,631 | 5.12 | 5.07 | 5.29 | 101.2% | 3.2 | pass |
| 1,2,4-Trichlorobenzene | 3,156,947 | 5.39 | 4.98 | 5.49 | 108.2% | 1.9 | pass |
| Hexachlorobutadiene | 2,583,130 | 5.06 | 4.94 | 5.17 | 102.5% | 2.1 | pass |
| Naphthalene | 8,170,488 | 6.09 | 5.04 | 6.21 | 120.9% | 1.9 | pass |
| 1-Bromopropane | 1,792,458 | 4.72 | 4.96 | 4.71 | 95.1% | 0.1 | pass |

Enthalpy Analytical

Job No.: 1022-148-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X111122C.v1
Data File X2202170.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-11 16:46
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS LD

| Target Compound | Response | Concentration (ppbv) | Expected Conc (ppbv) | Parent Conc (ppbv) | Recovery (%) | Diff (%) | Flags |
|------------------|-----------|----------------------|----------------------|--------------------|--------------|----------|-------|
| 1-Octene | 650,369 | 4.58 | 4.94 | 4.54 | 92.8% | 0.9 | pass |
| n-Octane | 845,010 | 4.49 | 5.02 | 4.55 | 89.4% | 1.5 | pass |
| Isopropylbenzene | 5,046,607 | 4.88 | 5.08 | 5.00 | 96.0% | 2.5 | pass |
| n-Propylbenzene | 5,785,670 | 4.98 | 5.13 | 5.09 | 97.0% | 2.2 | pass |

| Compound | Response | Retention Time (min) | Concentration (ppbv) | Flag |
|--------------------------|-----------|----------------------|----------------------|------|
| Bromochloromethane (IS) | 1,059,823 | 11.05 | 5.21 | pass |
| 1,4-Difluorobenzene (IS) | 3,888,412 | 12.47 | 5.16 | pass |
| Chlorobenzene-d5 (IS) | 3,475,871 | 16.61 | 4.92 | pass |

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Narrative Summary

Enthalpy Analytical Narrative Summary

| | |
|-------------------|------------------|
| Company | All4, Inc. |
| Analyst | TDD |
| Parameters | EPA Method TO-15 |

| | |
|------------------|---|
| Client # | 00701-0002.00; U.S. Steel Corp – Clairton Works |
| Job # | 1022-148 |
| # Samples | 4 Canisters |

Custody

Alyssa Miller received the samples on 11/11/22 after being relinquished by All4, Inc. The samples were received at ambient temperature and in good condition.

Can #1735 was not analyzed due to the pressure dropping too fast when collecting the sample per note on COC.

Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

Analysis

The samples were analyzed for the TO-15 target compound list using the analytical procedures in EPA Method TO-15, *Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*.

Upon receipt, the canister pressures were measured and recorded. The canisters were then pressurized with UHP nitrogen and a dilution ratio was calculated for each canister. See the Canister Pressurization Datasheet located in the Results section of this report.

All samples were analyzed undiluted.

The Agilent Technologies Model 6890N, Gas Chromatograph "Xavier" (S/N US10721018) equipped with a 5975C VL Mass Selective Detector (S/N US71215962) was used for this analysis. All samples and standards were introduced directly to the analyzer using an Entech 7200 Preconcentrator.

Calibration

The associated BFB tune analyses associated with the initial and continuing calibrations met all method acceptance criteria.

The initial calibration (*X100722A-TO15*) met the 30% RSD criteria. The initial calibration verification (ICV) met the 70-130% recovery criteria. The continuing calibration (CCV) met the 30% difference criteria. Full calibration data is available upon request.



Enthalpy Analytical Narrative Summary (continued)

Chromatographic Conditions

The acquisition method (*TO15-SCNv6.M*) may be made available upon request.

QC Notes

All internal standard area responses and retention time criteria were met for these analyses.

The Laboratory Control Samples (LCS) associated with this sample data met 70-130% recovery criteria.

The Laboratory Duplicates (LD) associated with this sample data met the 25% difference acceptance criteria. The LCS was also analyzed in duplicate and met the 25% difference criteria for all compounds.

The laboratory humid blanks associated with this analysis did not contain any of the target analytes at a concentration greater than 3x their MDL.

The samples were analyzed within the 7-day holding time requested in the ICR protocol.

Reporting Notes

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC data reports, unless specifically noted otherwise.

- Any analysis which refers to the method as “**Type**” represents a planned deviation from the reference method. For instance a Hydrogen Sulfide assay from a Tedlar bag would be labeled as “EPA Method 16-Type” because Tedlar bags are not mentioned as one of the collection options in EPA Method 16.
- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** in the Qualifier or Flag column in the results indicates that the value is between the MDL and the LOQ. The laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** in the Qualifier or Flag column indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- Sample results are presented ‘as measured’ for single injection methodologies, or an average value if multiple injections are made. If all injections are below the MDL, the sample is considered non-detect and the ND value is presented. If one, but not all, are below the MDL, the MDL value is used for any injections that are below the MDL. For example, if the MDL is 0.500 and LOQ is 1.00, and the instrument measures 0.355, 0.620, and 0.442 - the result reported is the average of 0.500, 0.620, and 0.500 - - - i.e. 0.540 with a J flag.
- When a spike recovery (Bag Spike, Collocated Spike Train, or liquid matrix spike) is being calculated, the native (unspiked) sample result is used in the calculations, as long as the value is above the MDL. If a sample is ND, then 0 is used as the native amount (not the MDL value).
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. The MS analysis indicates what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).



General Reporting Notes

(continued)

- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as a MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two spikes are retained as LCSs. The LCSs are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection, and/or sample transport.
- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits. In the case of small numbers, generally 3 significant figures are presented, but still only 2 should be used with confidence. Many neat materials are only certified to 3 digits, and as the mathematically correct final result is always 1 digit less than all its pre-cursors - 2 significant figures are what are most defensible.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations on sample chromatograms, if provided in the report. The peak was *not integrated* by the software "**NI**", the peak was *integrated incorrectly* by the software "**II**" or the *wrong peak* was integrated by the software "**WP**". These codes will accompany the analyst's manual integration stamp placed next to the compound name on the chromatogram.



Sample Custody



ENTHALPY ANALYTICAL

Air Chain of Custody Record

Turn Around Time (rush by advanced notice only)

Lab No:

Standard:

5 Day:

3 Day:

Page:

1

of

1

2 Day:

1 Day:

Custom TAT:

X

Enthalpy Analytical - Durham

800 Capitola Drive, Suite 1, Durham, NC 27713

Phone 919-850-4392

CUSTOMER INFORMATION

Company: ALL4 LLC

Report To: Dustin Snare

Email: dsnare@all4inc.com

Address: 2393 Kimberton Rd, Kimberton, PA

Phone: 610-422-1126

Fax: N/A

PROJECT INFORMATION

Name: U. S. Steel Corp - Clairton Works

Number: 00701-0002.00

P.O. #:

Address: Clairton, PA

Global ID: N/A

Sampled By:

Special Instructions:

VOC 02: Rtn at Point VOC 03 from 1:36 PM to 5:06 PM (3 hr & 30 min) and at point VOC 02 from 5:13 PM to 1:46 PM (20 hrs & 33 minutes)

VOC 05: Rtn at point VOC 02 from 1:20 PM to 2:36 PM (1 hr & 16 min) and at point VOC 05 from 2:55 PM to 1:39 PM (22 hrs & 44 min).

CAUTION: H1729 was not functional, pressure went down too fast (with flow controller SB-01604).

Analysis Requested

| Sample ID | Type | Equipment Information | | | Sampling Information | | | | | |
|-------------------------|--|-----------------------|------------------------------|--------------------------------|-------------------------|-------------------------|--------------------------|-----------------------|-----------------------|------------------------|
| | (I) Indoor (A) Ambient (SV) Soil Vapor (S) Source | Canister ID | Size (1L, 3L, 6L, 15L) | Flow Controller ID | Sample Start Date | Sample Start Time | Vacuum Start ("Hg) | Sample End Date | Sample End Time | Vacuum End ("Hg) |
| 1 VOC 02 - 22/11/08 - S | A | 1762 | 6 | SB-11937 | 22/11/08 | 12:55 PM | 30 | 22/11/09 | 12:55 PM | 6 |
| 2 VOC 02 - 22/11/08 - S | A | 1791 | 6 | SB-01538 | 22/11/08 | 1:36 PM | 30 | 22/11/09 | 1:46 PM | 0 |
| 3 VOC 03 - 22/11/08 - S | A | 000010 | 6 | SB-15977 | 22/11/08 | 2:01 PM | 30 | 22/11/09 | 2:01 PM | 5 |
| 4 VOC 04 - 22/11/08 - S | A | 1735 | 6 | SB-01803 | 22/11/08 | 2:16 PM | 30 | 22/11/09 | 2:16 PM | 6 |
| 5 VOC 05 - 22/11/08 - S | A | R5116 | 6 | SB-15647 | 22/11/08 | 1:20 PM | 29 | 22/11/09 | 1:39 PM | 7 |
| 6 | | | | | | | | | | |
| 7 | | 1735 | | NO ANALYSIS, SENT BACK WITH | | | | | | |
| 8 Ambient Temp | | | | FLOW CONTROLLER SB-01604 | | | | | | |
| 9 good condition | | | | FOR PRESSURE DROPPING TOO FAST | | | | | | |
| 10 AMM 3 11-11-22 | | | | | | | | | | |

TO-15 VOC

| | Signature | Print Name | Company / Title | Date / Time |
|--------------------|---------------|---------------|-----------------|--------------|
| 1 Relinquished By: | | Even M | ALL4 LLC | 22/11/09 |
| 1 Received By: | Alyssa Miller | Alyssa Miller | EA | 11-11-22 135 |
| 2 Relinquished By: | | | | |
| 2 Received By: | | | | |
| 3 Relinquished By: | | | | |
| 3 Received By: | | | | |

**This Is The Last Page
Of This Report.**