284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3193

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.447 | 0.575 | 0.582 | 0.501 | 0.510 | 0.492 | 0.518 | 10 |
| Chloromethane | 0.610 | 0.749 | 0.739 | 0.661 | 0.677 | 0.647 | 0.680 | 7.9 |
| Vinyl Chloride | 0.572 | 0.713 | 0.716 | 0.661 | 0.677 | 0.658 | 0.666 | 7.9 |
| Bromomethane | | 0.493 | 0.451 | 0.424 | 0.423 | 0.321 | 0.422 | 15 |
| Chloroethane | 0.433 | 0.450 | 0.469 | 0.443 | 0.450 | 0.426 | 0.445 | 3.4 |
| Trichlorofluoromethane | 0.865 | 1.033 | 1.038 | 0.995 | 1.018 | 0.986 | 0.989 | 6.5 |
| 1,1,2-Trichlorotrifluoroethane | 0.519 | 0.591 | 0.603 | 0.583 | 0.590 | 0.583 | 0.578 | 5.2 |
| 1,1-Dichloroethene | 0.526 | 0.612 | 0.618 | 0.604 | 0.609 | 0.596 | 0.594 | 5.7 |
| Acetone | 0.343 | 0.416 | 0.400 | 0.317 | 0.302 | 0.299 | 0.346 | 14.7 |
| Carbon Disulfide | 1.555 | 1.735 | 1.758 | 1.566 | 1.589 | 1.555 | 1.626 | 5.8 |
| Methyl tert-butyl Ether | 1.884 | 2.238 | 2.221 | 2.247 | 2.212 | 2.209 | 2.169 | 6.5 |
| Methyl Acetate | 0.612 | 0.673 | 0.714 | 0.876 | 0.865 | 0.881 | 0.770 | 15.4 |
| Methylene Chloride | 0.718 | 0.772 | 0.754 | 0.730 | 0.716 | 0.705 | 0.732 | 3.5 |
| trans-1,2-Dichloroethene | 0.543 | 0.703 | 0.665 | 0.649 | 0.643 | 0.635 | 0.640 | 8.3 |
| 1,1-Dichloroethane | 1.090 | 1.325 | 1.299 | 1.297 | 1.287 | 1.278 | 1.263 | 6.8 |
| Cyclohexane | | 1.161 | 1.092 | 1.030 | 0.984 | 0.993 | 1.052 | 7.1 |
| 2-Butanone | 0.370 | 0.470 | 0.473 | 0.439 | 0.414 | 0.424 | 0.432 | 9 |
| Carbon Tetrachloride | 0.482 | 0.574 | 0.555 | 0.539 | 0.526 | 0.518 | 0.532 | 6 |
| cis-1,2-Dichloroethene | 0.698 | 0.806 | 0.803 | 0.808 | 0.787 | 0.797 | 0.783 | 5.4 |
| Bromochloromethane | 0.457 | 0.607 | 0.450 | 0.577 | 0.587 | 0.630 | 0.551 | 14.2 |
| Chloroform | 1.034 | 1.364 | 1.366 | 1.323 | 1.282 | 1.288 | 1.276 | 9.7 |
| 1,1,1-Trichloroethane | 0.901 | 1.123 | 1.141 | 1.127 | 1.100 | 1.103 | 1.082 | 8.3 |
| Methylcyclohexane | 0.490 | 0.589 | 0.591 | 0.565 | 0.548 | 0.554 | 0.556 | 6.6 |
| Benzene | 1.330 | 1.577 | 1.566 | 1.523 | 1.473 | 1.459 | 1.488 | 6.1 |
| 1,2-Dichloroethane | 0.513 | 0.595 | 0.600 | 0.582 | 0.554 | 0.553 | 0.566 | 5.8 |
| Trichloroethene | 0.296 | 0.382 | 0.382 | 0.370 | 0.364 | 0.363 | 0.360 | 8.9 |
| 1,2-Dichloropropane | 0.326 | 0.403 | 0.394 | 0.397 | 0.382 | 0.384 | 0.381 | 7.4 |
| Bromodichloromethane | 0.461 | 0.599 | 0.601 | 0.607 | 0.579 | 0.586 | 0.572 | 9.7 |
| 4-Methyl-2-Pentanone | 0.390 | 0.493 | 0.503 | 0.511 | 0.479 | 0.487 | 0.477 | 9.3 |
| Toluene | 0.841 | 0.967 | 0.960 | 0.940 | 0.897 | 0.897 | 0.917 | 5.2 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3193

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.487 | 0.588 | 0.602 | 0.619 | 0.595 | 0.611 | 0.584 | 8.3 |
| cis-1,3-Dichloropropene | 0.513 | 0.652 | 0.644 | 0.653 | 0.637 | 0.644 | 0.624 | 8.7 |
| 1,1,2-Trichloroethane | 0.323 | 0.365 | 0.371 | 0.367 | 0.344 | 0.351 | 0.354 | 5.1 |
| 2-Hexanone | 0.274 | 0.374 | 0.372 | 0.360 | 0.333 | 0.343 | 0.343 | 10.8 |
| Dibromochloromethane | 0.321 | 0.414 | 0.431 | 0.435 | 0.421 | 0.422 | 0.407 | 10.5 |
| 1,2-Dibromoethane | 0.287 | 0.379 | 0.384 | 0.379 | 0.364 | 0.367 | 0.360 | 10.1 |
| Tetrachloroethene | 0.299 | 0.354 | 0.342 | 0.326 | 0.320 | 0.314 | 0.326 | 6 |
| Chlorobenzene | 0.998 | 1.182 | 1.177 | 1.178 | 1.139 | 1.142 | 1.136 | 6.2 |
| Ethyl Benzene | 1.625 | 2.077 | 2.049 | 2.039 | 1.996 | 1.973 | 1.960 | 8.6 |
| m/p-Xylenes | 0.604 | 0.774 | 0.765 | 0.765 | 0.739 | 0.730 | 0.729 | 8.8 |
| o-Xylene | 0.576 | 0.734 | 0.734 | 0.749 | 0.721 | 0.719 | 0.706 | 9.1 |
| Styrene | 1.019 | 1.288 | 1.290 | 1.299 | 1.257 | 1.265 | 1.236 | 8.7 |
| Bromoform | 0.221 | 0.293 | 0.301 | 0.313 | 0.312 | 0.317 | 0.293 | 12.4 |
| Isopropylbenzene | 3.124 | 3.907 | 3.986 | 4.047 | 3.907 | 3.839 | 3.801 | 8.9 |
| 1,1,2,2-Tetrachloroethane | 0.965 | 1.182 | 1.203 | 1.225 | 1.152 | 1.173 | 1.150 | 8.2 |
| 1,3-Dichlorobenzene | 1.462 | 1.800 | 1.829 | 1.817 | 1.768 | 1.758 | 1.739 | 8 |
| 1,4-Dichlorobenzene | 1.570 | 1.890 | 1.868 | 1.832 | 1.767 | 1.783 | 1.785 | 6.5 |
| 1,2-Dichlorobenzene | 1.359 | 1.691 | 1.757 | 1.746 | 1.696 | 1.692 | 1.657 | 9 |
| 1,2-Dibromo-3-Chloropropane | 0.173 | 0.218 | 0.242 | 0.254 | 0.250 | 0.260 | 0.233 | 14.1 |
| 1,2,4-Trichlorobenzene | 0.831 | 1.099 | 1.107 | 1.156 | 1.140 | 1.126 | 1.077 | 11.3 |
| 1,2,3-Trichlorobenzene | 0.753 | 0.986 | 1.031 | 1.088 | 1.078 | 1.073 | 1.002 | 12.7 |
| 1,2-Dichloroethane-d4 | | 0.884 | 0.647 | 0.770 | 0.815 | 0.863 | 0.796 | 11.8 |
| Dibromofluoromethane | | 0.356 | 0.266 | 0.331 | 0.355 | 0.368 | 0.335 | 12.3 |
| Toluene-d8 | | 1.237 | 0.943 | 1.147 | 1.211 | 1.263 | 1.160 | 11.1 |
| 4-Bromofluorobenzene | | 0.478 | 0.360 | 0.427 | 0.452 | 0.484 | 0.440 | 11.4 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.