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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG No.: Q3424

Instrument ID: BNA_F Calibration Date(s): 10/24/2025 10/24/2025

Calibration Time(s): 10:13 16:24

LAB FILE ID: RRF2.5 = BF144056.D RRF005 = BF144057.D RRF010 = BF144058.D
RRF020 = BF144059.D RRF040 = BF144060.D RRF050 = BF144061.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.324 | 1.322 | 1.328 | 1.303 | 1.163 | 1.264 | 7.8 |
| Benzaldehyde | | | 1.093 | 0.965 | 1.043 | 0.959 | 1.084 | 15.3 |
| Phenol-d6 | | 1.548 | 1.443 | 1.481 | 1.408 | 1.289 | 1.396 | 8.6 |
| Phenol | | 1.896 | 1.860 | 1.820 | 1.736 | 1.575 | 1.722 | 9.4 |
| bis(2-Chloroethyl)ether | | 1.406 | 1.278 | 1.285 | 1.248 | 1.128 | 1.245 | 8.7 |
| 2-Chlorophenol | | 1.398 | 1.310 | 1.306 | 1.251 | 1.124 | 1.245 | 9.2 |
| 2-Methylphenol | | 1.052 | 1.010 | 1.032 | 0.931 | 0.874 | 0.957 | 8.9 |
| 2,2-oxybis(1-Chloropropane) | | 2.561 | 2.432 | 2.505 | 2.376 | 2.149 | 2.339 | 8.1 |
| Acetophenone | | 0.473 | 0.459 | 0.433 | 0.437 | 0.397 | 0.432 | 8.4 |
| 3+4-Methylphenols | | | 1.270 | 1.190 | 1.167 | 1.036 | 1.132 | 9.7 |
| n-Nitroso-di-n-propylamine | 0.900 | 0.971 | 0.972 | 0.949 | 0.876 | 0.801 | 0.903 | 7.6 |
| Nitrobenzene-d5 | | 0.377 | 0.378 | 0.374 | 0.368 | 0.335 | 0.365 | 6.5 |
| Hexachloroethane | | 0.553 | 0.544 | 0.569 | 0.544 | 0.506 | 0.541 | 7.2 |
| Nitrobenzene | | 0.395 | 0.384 | 0.404 | 0.392 | 0.360 | 0.386 | 6.0 |
| Isophorone | | 0.665 | 0.662 | 0.645 | 0.643 | 0.584 | 0.638 | 6.3 |
| 2-Nitrophenol | | 0.190 | 0.184 | 0.196 | 0.191 | 0.167 | 0.184 | 7.0 |
| 2,4-Dimethylphenol | | 0.289 | 0.279 | 0.262 | 0.287 | 0.254 | 0.273 | 6.7 |
| bis(2-Chloroethoxy)methane | | 0.430 | 0.408 | 0.413 | 0.404 | 0.365 | 0.398 | 7.2 |
| 2,4-Dichlorophenol | | 0.334 | 0.345 | 0.325 | 0.323 | 0.293 | 0.317 | 7.8 |
| Naphthalene | | 1.054 | 1.002 | 0.962 | 0.965 | 0.852 | 0.944 | 9.7 |
| 4-Chloroaniline | | 0.332 | 0.356 | 0.349 | 0.336 | 0.298 | 0.329 | 8.1 |
| Hexachlorobutadiene | | 0.279 | 0.276 | 0.274 | 0.270 | 0.241 | 0.267 | 8.2 |
| Caprolactam | | | 0.078 | 0.082 | 0.085 | 0.072 | 0.080 | 7.0 |
| 4-Chloro-3-methylphenol | | 0.302 | 0.289 | 0.285 | 0.282 | 0.257 | 0.280 | 7.0 |
| 2-Methylnaphthalene | | 0.718 | 0.654 | 0.631 | 0.644 | 0.549 | 0.622 | 10.6 |
| Hexachlorocyclopentadiene | | | 0.148 | 0.208 | 0.218 | 0.205 | 0.212 | 18.9 |
| 2,4,6-Trichlorophenol | | 0.430 | 0.447 | 0.480 | 0.473 | 0.427 | 0.447 | 8.0 |
| 2-Fluorobiphenyl | | 1.654 | 1.503 | 1.411 | 1.451 | 1.291 | 1.421 | 11.0 |
| 2,4,5-Trichlorophenol | | 0.488 | 0.485 | 0.484 | 0.467 | 0.427 | 0.469 | 7.2 |
| 1,1-Biphenyl | | 1.613 | 1.533 | 1.441 | 1.472 | 1.317 | 1.432 | 10.1 |
| 2-Chloronaphthalene | | 1.336 | 1.264 | 1.233 | 1.222 | 1.101 | 1.199 | 9.7 |
| 2-Nitroaniline | | 0.325 | 0.359 | 0.368 | 0.380 | 0.333 | 0.356 | 8.0 |
| Dimethylphthalate | | 1.398 | 1.328 | 1.332 | 1.366 | 1.219 | 1.311 | 7.1 |
| Acenaphthylene | | 1.780 | 1.693 | 1.664 | 1.703 | 1.476 | 1.617 | 9.5 |

All other compounds must meet a minimum RRF of 0.010.

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Lab Code: ACE SDG No.: Q3424

Instrument ID: BNA_F Calibration Date(s): 10/24/2025 10/24/2025

Calibration Time(s): 10:13 16:24

LAB FILE ID: RRF2.5 = BF144056.D RRF005 = BF144057.D RRF010 = BF144058.D
RRF020 = BF144059.D RRF040 = BF144060.D RRF050 = BF144061.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | | 0.228 | 0.257 | 0.275 | 0.276 | 0.252 | 0.259 | 8.3 |
| 3-Nitroaniline | | 0.276 | 0.294 | 0.293 | 0.322 | 0.281 | 0.288 | 7.8 |
| Acenaphthene | | 1.125 | 1.153 | 1.134 | 1.114 | 0.999 | 1.080 | 8.2 |
| 2,4-Dinitrophenol | | | 0.161 | 0.162 | 0.124 | 0.116 | 0.140 | 13.4 |
| 4-Nitrophenol | | | 0.224 | 0.199 | 0.187 | 0.175 | 0.195 | 8.9 |
| Dibenzofuran | | 1.685 | 1.572 | 1.512 | 1.559 | 1.391 | 1.499 | 9.5 |
| 2,4-Dinitrotoluene | | 0.302 | 0.343 | 0.370 | 0.385 | 0.336 | 0.350 | 9.4 |
| Diethylphthalate | | 1.286 | 1.264 | 1.244 | 1.290 | 1.145 | 1.233 | 7.0 |
| 4-Chlorophenyl-phenylether | | 0.706 | 0.667 | 0.656 | 0.675 | 0.591 | 0.643 | 9.5 |
| Fluorene | | 1.359 | 1.169 | 1.133 | 1.188 | 1.041 | 1.143 | 11.3 |
| 4-Nitroaniline | | 0.262 | 0.266 | 0.275 | 0.296 | 0.260 | 0.273 | 6.7 |
| 4,6-Dinitro-2-methylphenol | | | 0.133 | 0.151 | 0.123 | 0.115 | 0.128 | 10.6 |
| n-Nitrosodiphenylamine | | 0.716 | 0.666 | 0.657 | 0.643 | 0.590 | 0.639 | 8.8 |
| 2,4,6-Tribromophenol | | 0.251 | 0.249 | 0.256 | 0.262 | 0.241 | 0.255 | 6.8 |
| 4-Bromophenyl-phenylether | | 0.274 | 0.256 | 0.247 | 0.260 | 0.230 | 0.250 | 8.5 |
| Hexachlorobenzene | | 0.311 | 0.338 | 0.309 | 0.321 | 0.275 | 0.307 | 8.6 |
| Atrazine | | 0.229 | 0.223 | 0.218 | 0.208 | 0.185 | 0.210 | 11.5 |
| Pentachlorophenol | | | 0.123 | 0.149 | 0.150 | 0.143 | 0.146 | 9.9 |
| Phenanthrene | | 1.073 | 1.040 | 1.009 | 1.017 | 0.918 | 0.994 | 7.9 |
| Anthracene | | 1.171 | 1.077 | 1.029 | 1.053 | 0.932 | 1.026 | 10.0 |
| Carbazole | | 0.943 | 0.920 | 0.883 | 0.905 | 0.818 | 0.874 | 8.2 |
| Di-n-butylphthalate | | 1.090 | 1.091 | 1.116 | 1.118 | 1.002 | 1.071 | 6.6 |
| Fluoranthene | | 1.171 | 1.151 | 1.121 | 1.123 | 0.997 | 1.098 | 7.9 |
| Pyrene | | 1.603 | 1.466 | 1.426 | 1.521 | 1.295 | 1.438 | 9.1 |
| Terphenyl-d14 | | 1.280 | 1.134 | 1.121 | 1.212 | 1.002 | 1.144 | 9.4 |
| Butylbenzylphthalate | | 0.508 | 0.542 | 0.566 | 0.601 | 0.494 | 0.544 | 8.2 |
| 3,3-Dichlorobenzidine | | | 0.469 | 0.485 | 0.510 | 0.404 | 0.470 | 10.2 |
| Benzo(a)anthracene | | 1.341 | 1.322 | 1.359 | 1.516 | 1.206 | 1.352 | 8.8 |
| Chrysene | | 1.330 | 1.263 | 1.253 | 1.319 | 1.179 | 1.268 | 5.9 |
| Bis(2-ethylhexyl)phthalate | | 0.745 | 0.725 | 0.761 | 0.795 | 0.690 | 0.743 | 7.0 |
| Di-n-octyl phthalate | | | 1.228 | 1.295 | 1.399 | 1.179 | 1.277 | 7.6 |
| Benzo(b)fluoranthene | | 1.134 | 1.108 | 1.153 | 1.264 | 1.055 | 1.131 | 6.4 |
| Benzo(k)fluoranthene | | 1.206 | 1.077 | 1.010 | 1.059 | 0.906 | 1.043 | 11.4 |
| Benzo(a)pyrene | | 1.049 | 0.990 | 1.036 | 1.089 | 0.942 | 1.014 | 6.9 |
| Indeno(1,2,3-cd)pyrene | | 1.351 | 1.331 | 1.394 | 1.477 | 1.295 | 1.373 | 6.5 |

All other compounds must meet a minimum RRF of 0.010.

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| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | | 1.058 | 1.061 | 1.107 | 1.166 | 1.024 | 1.087 | 6.7 |
| Benzo(g,h,i)perylene | | 1.051 | 1.051 | 1.124 | 1.195 | 1.023 | 1.093 | 7.1 |
| 1,2,4,5-Tetrachlorobenzene | | 0.777 | 0.707 | 0.693 | 0.707 | 0.629 | 0.687 | 9.2 |
| 1,4-Dioxane | | 0.723 | 0.494 | 0.485 | 0.550 | 0.519 | 0.546 | 15.6 |
| 2,3,4,6-Tetrachlorophenol | | 0.317 | 0.318 | 0.333 | 0.360 | 0.322 | 0.330 | 7.5 |

All other compounds must meet a minimum RRF of 0.010.