CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG No.: O5252

Instrument ID: BNA_F Calibration Date(s): 10/30/2023 10/30/2023

Calibration Time(s): 12:02 15:51

LAB FILE ID: RRF2.5 = BF136023.D RRF005 = BF136024.D RRF010 = BF136025.D
RRF020 = BF136026.D RRF040 = BF136027.D RRF050 = BF136028.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.313 | 1.280 | 1.370 | 1.246 | 1.218 | 1.273 | 4.2 |
| Benzaldehyde | | 1.055 | 0.974 | 0.974 | 0.861 | 0.787 | 0.884 | 13.2 |
| Phenol-d6 | | 1.668 | 1.574 | 1.704 | 1.565 | 1.504 | 1.586 | 4.6 |
| Phenol | | 1.675 | 1.639 | 1.747 | 1.643 | 1.559 | 1.640 | 3.7 |
| bis(2-Chloroethyl)ether | | 1.328 | 1.271 | 1.384 | 1.260 | 1.217 | 1.284 | 4.3 |
| 2-Chlorophenol | | 1.403 | 1.386 | 1.472 | 1.352 | 1.290 | 1.361 | 4.8 |
| 2-Methylphenol | | 1.168 | 1.154 | 1.220 | 1.136 | 1.105 | 1.154 | 3.1 |
| 2,2-oxybis(1-Chloropropane) | | 1.827 | 1.781 | 1.892 | 1.746 | 1.689 | 1.767 | 4.1 |
| Acetophenone | | 0.492 | 0.465 | 0.485 | 0.442 | 0.408 | 0.443 | 8.5 |
| 3+4-Methylphenols | | 1.563 | 1.482 | 1.565 | 1.389 | 1.302 | 1.408 | 9.2 |
| n-Nitroso-di-n-propylamine | 0.944 | 0.959 | 0.915 | 0.961 | 0.878 | 0.846 | 0.906 | 5.0 |
| Nitrobenzene-d5 | | 0.315 | 0.314 | 0.355 | 0.340 | 0.322 | 0.332 | 4.6 |
| Hexachloroethane | | 0.512 | 0.491 | 0.533 | 0.495 | 0.479 | 0.499 | 3.6 |
| Nitrobenzene | | 0.322 | 0.318 | 0.360 | 0.343 | 0.329 | 0.336 | 4.3 |
| Isophorone | | 0.627 | 0.612 | 0.657 | 0.622 | 0.601 | 0.626 | 3.0 |
| 2-Nitrophenol | | 0.114 | 0.129 | 0.161 | 0.166 | 0.159 | 0.153 | 14.8 |
| 2,4-Dimethylphenol | | 0.286 | 0.284 | 0.309 | 0.295 | 0.276 | 0.289 | 3.6 |
| bis(2-Chloroethoxy)methane | | 0.390 | 0.384 | 0.412 | 0.385 | 0.365 | 0.384 | 3.9 |
| 2,4-Dichlorophenol | | 0.265 | 0.261 | 0.295 | 0.280 | 0.263 | 0.273 | 4.3 |
| Naphthalene | | 1.022 | 0.975 | 1.047 | 0.966 | 0.914 | 0.964 | 5.8 |
| 4-Chloroaniline | | 0.436 | 0.418 | 0.454 | 0.425 | 0.403 | 0.422 | 4.2 |
| Hexachlorobutadiene | | 0.174 | 0.166 | 0.185 | 0.173 | 0.163 | 0.171 | 4.4 |
| Caprolactam | | 0.082 | 0.081 | 0.094 | 0.091 | 0.088 | 0.089 | 6.1 |
| 4-Chloro-3-methylphenol | | 0.287 | 0.279 | 0.304 | 0.291 | 0.275 | 0.286 | 3.3 |
| 2-Methylnaphthalene | | 0.693 | 0.654 | 0.703 | 0.651 | 0.610 | 0.647 | 6.3 |
| Hexachlorocyclopentadiene | | 0.261 | 0.270 | 0.321 | 0.321 | 0.308 | 0.305 | 9.1 |
| 2,4,6-Trichlorophenol | | 0.362 | 0.360 | 0.392 | 0.385 | 0.363 | 0.372 | 3.4 |
| 2-Fluorobiphenyl | | 1.441 | 1.357 | 1.398 | 1.228 | 1.142 | 1.255 | 11.4 |
| 2,4,5-Trichlorophenol | | 0.418 | 0.413 | 0.463 | 0.439 | 0.416 | 0.431 | 4.1 |
| 1,1-Biphenyl | | 1.633 | 1.575 | 1.645 | 1.537 | 1.431 | 1.525 | 6.4 |
| 2-Chloronaphthalene | | 1.163 | 1.145 | 1.202 | 1.136 | 1.064 | 1.124 | 4.6 |
| 2-Nitroaniline | | 0.267 | 0.292 | 0.352 | 0.358 | 0.342 | 0.333 | 11.3 |
| Dimethylphthalate | | 1.372 | 1.318 | 1.402 | 1.330 | 1.247 | 1.319 | 4.2 |
| Acenaphthylene | | 1.801 | 1.790 | 1.886 | 1.777 | 1.669 | 1.753 | 4.7 |
| 2,6-Dinitrotoluene | | 0.239 | 0.256 | 0.293 | 0.300 | 0.284 | 0.282 | 9.0 |
| 3-Nitroaniline | | 0.283 | 0.301 | 0.349 | 0.344 | 0.326 | 0.329 | 8.4 |

All other compounds must meet a minimum RRF of 0.010.

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Calibration Time(s): 12:02 15:51

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RRF020 = BF136026.D RRF040 = BF136027.D RRF050 = BF136028.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | 1.177 | 1.160 | 1.194 | 1.131 | 1.050 | 1.115 | 6.0 |
| 2,4-Dinitrophenol | | | 0.071 | 0.103 | 0.129 | 0.133 | 0.123 | 25.7 |
| 4-Nitrophenol | | 0.193 | 0.217 | 0.251 | 0.264 | 0.252 | 0.246 | 12.5 |
| Dibenzofuran | | 1.719 | 1.677 | 1.760 | 1.642 | 1.522 | 1.625 | 6.1 |
| 2,4-Dinitrotoluene | | 0.275 | 0.323 | 0.377 | 0.386 | 0.373 | 0.357 | 11.9 |
| Diethylphthalate | | 1.287 | 1.258 | 1.335 | 1.290 | 1.206 | 1.260 | 3.7 |
| 4-Chlorophenyl-phenylether | | 0.684 | 0.645 | 0.663 | 0.602 | 0.554 | 0.607 | 9.3 |
| Fluorene | | 1.337 | 1.277 | 1.338 | 1.214 | 1.130 | 1.217 | 8.4 |
| 4-Nitroaniline | | 0.264 | 0.286 | 0.330 | 0.338 | 0.325 | 0.317 | 9.5 |
| 4,6-Dinitro-2-methylphenol | | | 0.062 | 0.090 | 0.109 | 0.104 | 0.099 | 20.7 |
| n-Nitrosodiphenylamine | | 0.625 | 0.608 | 0.642 | 0.624 | 0.565 | 0.603 | 4.8 |
| 2,4,6-Tribromophenol | | 0.200 | 0.213 | 0.227 | 0.222 | 0.208 | 0.213 | 4.2 |
| 4-Bromophenyl-phenylether | | 0.207 | 0.204 | 0.222 | 0.220 | 0.199 | 0.210 | 4.0 |
| Hexachlorobenzene | | 0.226 | 0.218 | 0.235 | 0.235 | 0.211 | 0.224 | 3.9 |
| Atrazine | | 0.176 | 0.173 | 0.180 | 0.165 | 0.152 | 0.164 | 7.8 |
| Pentachlorophenol | | 0.118 | 0.130 | 0.151 | 0.156 | 0.147 | 0.144 | 10.0 |
| Phenanthrene | | 1.079 | 1.031 | 1.083 | 1.038 | 0.935 | 1.007 | 6.6 |
| Anthracene | | 1.082 | 1.057 | 1.122 | 1.062 | 0.958 | 1.032 | 6.3 |
| Carbazole | | 0.919 | 0.904 | 0.960 | 0.937 | 0.845 | 0.897 | 5.0 |
| Di-n-butylphthalate | | 1.042 | 1.033 | 1.110 | 1.065 | 0.967 | 1.025 | 5.2 |
| Fluoranthene | | 1.089 | 1.049 | 1.126 | 1.079 | 0.973 | 1.035 | 6.6 |
| Pyrene | | 1.608 | 1.562 | 1.770 | 1.894 | 1.680 | 1.763 | 8.7 |
| Terphenyl-d14 | | 1.271 | 1.226 | 1.341 | 1.365 | 1.197 | 1.287 | 4.7 |
| Butylbenzylphthalate | | 0.535 | 0.542 | 0.636 | 0.676 | 0.641 | 0.631 | 10.8 |
| 3,3-Dichlorobenzidine | | 0.375 | 0.392 | 0.439 | 0.453 | 0.426 | 0.423 | 6.9 |
| Benzo(a)anthracene | | 1.290 | 1.276 | 1.400 | 1.389 | 1.267 | 1.324 | 4.0 |
| Chrysene | | 1.257 | 1.227 | 1.368 | 1.361 | 1.270 | 1.304 | 4.3 |
| Bis(2-ethylhexyl)phthalate | | 0.665 | 0.675 | 0.774 | 0.784 | 0.732 | 0.735 | 6.4 |
| Di-n-octyl phthalate | | 0.928 | 0.972 | 1.105 | 1.154 | 1.143 | 1.102 | 10.3 |
| Benzo(b)fluoranthene | | 1.182 | 1.139 | 1.330 | 1.169 | 1.173 | 1.183 | 5.6 |
| Benzo(k)fluoranthene | | 1.192 | 1.232 | 1.254 | 1.176 | 1.123 | 1.171 | 5.1 |
| Benzo(a)pyrene | | 1.063 | 1.040 | 1.155 | 1.118 | 1.085 | 1.100 | 3.6 |
| Indeno(1,2,3-cd)pyrene | | 1.052 | 1.058 | 1.300 | 1.444 | 1.336 | 1.307 | 14.2 |
| Dibenzo(a,h)anthracene | | 0.856 | 0.871 | 1.085 | 1.184 | 1.097 | 1.071 | 13.9 |
| Benzo(g,h,i)perylene | | 0.885 | 0.870 | 1.096 | 1.235 | 1.139 | 1.105 | 15.1 |
| 1,2,4,5-Tetrachlorobenzene | | 0.595 | 0.574 | 0.612 | 0.577 | 0.540 | 0.570 | 4.8 |

All other compounds must meet a minimum RRF of 0.010.

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RRF020 = BF136026.D RRF040 = BF136027.D RRF050 = BF136028.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | | 0.541 | 0.518 | 0.583 | 0.551 | 0.547 | 0.554 | 4.0 |
| 2,3,4,6-Tetrachlorophenol | | 0.343 | 0.336 | 0.356 | 0.351 | 0.333 | 0.342 | 2.5 |

All other compounds must meet a minimum RRF of 0.010.