# Response Factor Report gcms1

Method Path : Z:\HPCHEM1\BNA_M\METHODS\
Method File : SOM02.2-EPA-BM031516.M
Title : SVOA CALIBRATION
Last Update : Wed Mar 16 07:32:20 2016
Response Via : Initial Calibration

Calibration Files
5 =BM004592.D 10 =BM004593.D 20 =BM004616.D
40 =BM004595.D 80 =BM004596.D 160 =BM004597.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.720 | 0.695 | 0.679 | 0.647 | 0.640 | | 0.676 | 4.95 |
| 3) | S | 1,4-Dioxane-d8 | 0.625 | 0.595 | 0.573 | 0.559 | 0.546 | | 0.580 | 5.34 |
| 4) | | Benzaldehyde | | 0.983 | 0.962 | 0.999 | 0.901 | 0.710 | 0.911 | 12.99 |
| 5) | S | Phenol-d5 | | 1.600 | 1.657 | 1.716 | 1.707 | 1.537 | 1.643 | 4.58 |
| 6) | | Phenol | | 1.699 | 1.754 | 1.801 | 1.790 | 1.603 | 1.729 | 4.70 |
| 7) | S | Bis-(2-Chloroethy | | 0.961 | 0.956 | 0.951 | 0.927 | 0.863 | 0.931 | 4.35 |
| 8) | | Bis(2-Chloroethyl | | 1.362 | 1.391 | 1.375 | 1.349 | 1.252 | 1.346 | 4.07 |
| 9) | S | 2-Chlorophenol-d4 | 1.273 | 1.312 | 1.324 | 1.352 | 1.353 | | 1.323 | 2.50 |
| 10) | | 2-Chlorophenol | 1.369 | 1.383 | 1.400 | 1.416 | 1.416 | | 1.397 | 1.48 |
| 11) | | 2-Methylphenol | | 1.312 | 1.351 | 1.385 | 1.376 | 1.221 | 1.329 | 5.03 |
| 12) | | 2,2'-oxybis(1-Chl | | 1.671 | 1.666 | 1.643 | 1.601 | 1.469 | 1.610 | 5.19 |
| 13) | S | 4-Methylphenol-d8 | | 1.319 | 1.364 | 1.384 | 1.359 | 1.198 | 1.325 | 5.62 |
| 14) | | Acetophenone | | 2.185 | 2.203 | 2.161 | 2.041 | 1.742 | 2.067 | 9.30 |
| 15) | P | N-Nitroso-di-n-pr | 1.053 | 1.066 | 1.061 | 1.070 | 1.001 | | 1.050 | 2.68 |
| 16) | | 4-Methylphenol | | 1.463 | 1.499 | 1.546 | 1.501 | 1.308 | 1.463 | 6.26 |
| 17) | | Hexachloroethane | 0.566 | 0.556 | 0.560 | 0.542 | 0.549 | | 0.555 | 1.67 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.131 | 0.130 | 0.141 | 0.145 | 0.150 | | 0.139 | 6.33 |
| 20) | | Nitrobenzene | 0.330 | 0.332 | 0.350 | 0.351 | 0.353 | | 0.343 | 3.29 |
| 21) | | Isophorone | 0.648 | 0.642 | 0.666 | 0.670 | 0.660 | | 0.657 | 1.82 |
| 22) | S | 2-Nitrophenol-d4 | 0.134 | 0.139 | 0.153 | 0.159 | 0.166 | | 0.150 | 8.81 |
| 23) | C | 2-Nitrophenol | 0.151 | 0.156 | 0.170 | 0.176 | 0.180 | | 0.166 | 7.50 |
| 24) | | 2,4-Dimethylpheno | 0.361 | 0.358 | 0.371 | 0.370 | 0.362 | | 0.365 | 1.64 |
| 25) | | Bis(2-Chloroethox | 0.435 | 0.423 | 0.430 | 0.422 | 0.412 | | 0.424 | 2.01 |
| 26) | S | 2,4-Dichloropheno | 0.287 | 0.290 | 0.297 | 0.301 | 0.299 | | 0.295 | 1.95 |
| 27) | C | 2,4-Dichloropheno | 0.302 | 0.299 | 0.307 | 0.307 | 0.304 | | 0.304 | 1.17 |
| 28) | | Naphthalene | 1.092 | 1.059 | 1.051 | 1.023 | 0.990 | | 1.043 | 3.69 |
| 29) | S | 4-Chloroaniline-d | | 0.323 | 0.401 | 0.392 | 0.358 | 0.289 | 0.353 | 13.32 |
| 30) | | 4-Chloroaniline | | 0.347 | 0.425 | 0.409 | 0.374 | 0.299 | 0.371 | 13.51 |
| 31) | C | Hexachlorobutadie | 0.187 | 0.181 | 0.182 | 0.178 | 0.178 | | 0.181 | 1.96 |
| 32) | | Caprolactam | | 0.101 | 0.103 | 0.108 | 0.106 | 0.091 | 0.102 | 6.71 |
| 33) | C | 4-Chloro-3-methyl | 0.338 | 0.342 | 0.348 | 0.350 | 0.339 | | 0.344 | 1.61 |
| 34) | | 2-Methylnaphthale | 0.770 | 0.752 | 0.752 | 0.736 | 0.703 | | 0.743 | 3.39 |
| 35) | | 1-Methylnaphthale | 0.735 | 0.726 | 0.727 | 0.706 | 0.675 | | 0.714 | 3.36 |
| 36) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 37) | | 1,2,4,5-Tetrachlo | 0.666 | 0.638 | 0.644 | 0.626 | 0.619 | | 0.639 | 2.83 |
| 38) | | Hexachlorocyclope | | 0.294 | 0.328 | 0.344 | 0.370 | 0.394 | 0.346 | 11.11 |
| 39) | C | 2,4,6-Trichloroph | 0.429 | 0.419 | 0.420 | 0.421 | 0.421 | | 0.422 | 0.92 |
| 40) | | 2,4,5-Trichloroph | 0.454 | 0.450 | 0.456 | 0.459 | 0.458 | | 0.455 | 0.81 |
| 41) | | 1,1'-Biphenyl | 1.758 | 1.687 | 1.689 | 1.633 | 1.584 | | 1.670 | 3.91 |
| 42) | | 2-Chloronaphthale | 1.310 | 1.259 | 1.266 | 1.241 | 1.204 | | 1.256 | 3.07 |
| 43) | | 2-Nitroaniline | 0.311 | 0.313 | 0.336 | 0.359 | 0.371 | | 0.338 | 7.95 |
| 44) | S | Dimethylphthalate | 1.625 | 1.576 | 1.578 | 1.549 | 1.489 | | 1.563 | 3.17 |
| 45) | | Dimethylphthalate | 1.660 | 1.601 | 1.601 | 1.567 | 1.507 | | 1.587 | 3.52 |
| 46) | | 2,6-Dinitrotoluen | 0.239 | 0.259 | 0.288 | 0.308 | 0.319 | | 0.283 | 11.84 |
| 47) | S | Acenaphthylene-d8 | 1.931 | 1.900 | 1.955 | 1.925 | 1.874 | | 1.917 | 1.61 |
| 48) | | Acenaphthylene | 2.099 | 2.083 | 2.101 | 2.047 | 1.967 | | 2.060 | 2.73 |
| 49) | | 3-Nitroaniline | | 0.270 | 0.331 | 0.337 | 0.324 | 0.265 | 0.305 | 11.44 |
| 50) | C | Acenaphthene | 1.446 | 1.420 | 1.403 | 1.361 | 1.302 | | 1.387 | 4.09 |
| 51) | | 2,4-Dinitrophenol | | 0.114 | 0.144 | 0.168 | 0.191 | 0.187 | 0.161 | 20.00 |

Method Path : Z:\HPCHEM1\BNA_M\METHODS\
Method File : SOM02.2-EPA-BM031516.M
Title : SVOA CALIBRATION
Last Update : Wed Mar 16 07:32:20 2016
Response Via : Initial Calibration

Calibration Files
5 =BM004592.D 10 =BM004593.D 20 =BM004616.D
40 =BM004595.D 80 =BM004596.D 160 =BM004597.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | S | 4-Nitrophenol-d4 | | 0.279 | 0.307 | 0.319 | 0.320 | 0.287 | 0.302 | 6.19 |
| 53) | | 4-Nitrophenol | | 0.243 | 0.253 | 0.255 | 0.252 | 0.222 | 0.245 | 5.57 |
| 54) | | Dibenzofuran | 2.084 | 2.010 | 1.987 | 1.931 | 1.858 | | 1.974 | 4.32 |
| 55) | | 2,4-Dinitrotoluen | 0.367 | 0.401 | 0.434 | 0.461 | 0.467 | | 0.426 | 9.86 |
| 56) | | 2,3,4,6-Tetrachlo | 0.405 | 0.400 | 0.403 | 0.403 | 0.393 | | 0.401 | 1.17 |
| 57) | | Diethylphthalate | 1.694 | 1.650 | 1.630 | 1.586 | 1.524 | | 1.617 | 4.01 |
| 58) | S | Fluorene-d10 | 1.443 | 1.391 | 1.365 | 1.334 | 1.282 | | 1.363 | 4.42 |
| 59) | | Fluorene | 1.697 | 1.648 | 1.614 | 1.524 | 1.398 | | 1.576 | 7.49 |
| 60) | | 4-Chlorophenyl-ph | 0.807 | 0.780 | 0.772 | 0.727 | 0.673 | | 0.752 | 6.98 |
| 61) | | 4-Nitroaniline | | 0.278 | 0.318 | 0.358 | 0.364 | 0.324 | 0.328 | 10.61 |
| 62) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 63) | S | 4,6-Dinitro-2-met | | 0.083 | 0.099 | 0.108 | 0.117 | 0.119 | 0.105 | 13.97 |
| 64) | | 4,6-Dinitro-2-met | | 0.094 | 0.108 | 0.118 | 0.125 | 0.126 | 0.114 | 11.86 |
| 65) | | N-Nitrosodiphenyl | 0.620 | 0.610 | 0.624 | 0.598 | 0.577 | | 0.606 | 3.16 |
| 66) | | 4-Bromophenyl-phe | 0.202 | 0.203 | 0.204 | 0.201 | 0.197 | | 0.201 | 1.29 |
| 67) | | Hexachlorobenzene | 0.232 | 0.226 | 0.229 | 0.223 | 0.221 | | 0.226 | 2.00 |
| 68) | | Atrazine | | 0.217 | 0.219 | 0.219 | 0.214 | 0.201 | 0.214 | 3.63 |
| 69) | C | Pentachlorophenol | | 0.142 | 0.147 | 0.148 | 0.150 | 0.146 | 0.147 | 2.07 |
| 70) | | Phenanthrene | 1.200 | 1.169 | 1.165 | 1.113 | 1.067 | | 1.143 | 4.61 |
| 71) | S | Anthracene-d10 | 0.934 | 0.938 | 0.939 | 0.909 | 0.883 | | 0.921 | 2.64 |
| 72) | | Anthracene | 1.196 | 1.180 | 1.174 | 1.131 | 1.074 | | 1.151 | 4.31 |
| 73) | | 1,2,3,4-Tetrachlo | 0.280 | 0.270 | 0.279 | 0.272 | 0.274 | | 0.275 | 1.57 |
| 74) | | Pentachlorobenzen | 0.269 | 0.266 | 0.271 | 0.263 | 0.259 | | 0.266 | 1.82 |
| 75) | | Carbazole | | 1.092 | 1.096 | 1.047 | 1.000 | 0.909 | 1.029 | 7.52 |
| 76) | | Di-n-butylphthala | 2.005 | 1.513 | 1.348 | 1.242 | 1.187 | | 1.459 | 22.60 |
| 77) | C | Fluoranthene | | 1.362 | 1.345 | 1.284 | 1.231 | 1.089 | 1.262 | 8.71 |
| 78) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 79) | S | Pyrene-d10 | 0.945 | 0.919 | 0.925 | 0.904 | 0.871 | | 0.913 | 3.01 |
| 80) | | Pyrene | 1.267 | 1.246 | 1.230 | 1.192 | 1.125 | | 1.212 | 4.62 |
| 81) | | Butylbenzylphthal | 0.486 | 0.473 | 0.487 | 0.491 | 0.487 | | 0.485 | 1.44 |
| 82) | | 3,3'-Dichlorobenz | | 0.288 | 0.324 | 0.340 | 0.316 | 0.275 | 0.309 | 8.55 |
| 83) | | Benzo(a)anthracen | 1.223 | 1.190 | 1.175 | 1.143 | 1.107 | | 1.167 | 3.81 |
| 84) | | Bis(2-ethylhexyl) | 0.702 | 0.701 | 0.711 | 0.686 | 0.646 | | 0.689 | 3.72 |
| 85) | | Chrysene | 1.176 | 1.133 | 1.131 | 1.082 | 1.053 | | 1.115 | 4.32 |
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Di-n-octyl phthal | | 1.205 | 1.260 | 1.255 | 1.204 | 1.053 | 1.196 | 7.02 |
| 88) | | Benzo(b)fluoranth | 1.206 | 1.246 | 1.248 | 1.153 | 1.110 | | 1.193 | 5.02 |
| 89) | | Benzo(k)fluoranth | 1.202 | 1.120 | 1.141 | 1.144 | 1.063 | | 1.134 | 4.39 |
| 90) | S | Benzo(a)pyrene-d1 | 0.894 | 0.897 | 0.914 | 0.894 | 0.868 | | 0.893 | 1.84 |
| 91) | C | Benzo(a)pyrene | 1.151 | 1.168 | 1.177 | 1.135 | 1.083 | | 1.143 | 3.25 |
| 92) | | Indeno(1,2,3-cd)p | 1.288 | 1.292 | 1.328 | 1.281 | 1.236 | | 1.285 | 2.56 |
| 93) | | Dibenzo(a,h)anthr | 1.068 | 1.065 | 1.100 | 1.061 | 1.022 | | 1.063 | 2.60 |
| 94) | | Benzo(g,h,i)peryl | 1.081 | 1.087 | 1.125 | 1.087 | 1.063 | | 1.088 | 2.09 |

(#) = Out of Range