# Response Factor Report gcms1

Method Path : Z:\HPCHEM1\BNA_M\METHODS\
Method File : SOM02.2-EPA-BM030316.M
Title : SVOA CALIBRATION
Last Update : Fri Mar 04 17:00:47 2016
Response Via : Initial Calibration

Calibration Files
5 =BM004524.D 10 =BM004525.D 20 =BM004526.D
40 =BM004527.D 80 =BM004528.D 160 =BM004529.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.371 | 0.423 | 0.443 | 0.428 | 0.409 | | 0.415 | 6.57 |
| 3) | S | 1,4-Dioxane-d8 | 0.330 | 0.370 | 0.408 | 0.378 | 0.371 | | 0.372 | 7.49 |
| 4) | | Benzaldehyde | | 0.967 | 1.056 | 0.997 | 0.840 | 0.366 | 0.845 | 33.02 |
| 5) | S | Phenol-d5 | | 1.544 | 1.674 | 1.670 | 1.659 | 1.511 | 1.611 | 4.82 |
| 6) | | Phenol | | 1.650 | 1.793 | 1.753 | 1.754 | 1.574 | 1.705 | 5.31 |
| 7) | S | Bis-(2-Chloroethy | | 0.837 | 0.852 | 0.828 | 0.802 | 0.741 | 0.812 | 5.41 |
| 8) | | Bis(2-Chloroethyl | | 1.316 | 1.375 | 1.318 | 1.280 | 1.176 | 1.293 | 5.70 |
| 9) | S | 2-Chlorophenol-d4 | 1.286 | 1.418 | 1.514 | 1.485 | 1.481 | | 1.437 | 6.37 |
| 10) | | 2-Chlorophenol | 1.381 | 1.491 | 1.566 | 1.543 | 1.522 | | 1.501 | 4.81 |
| 11) | | 2-Methylphenol | | 1.367 | 1.464 | 1.443 | 1.411 | 1.257 | 1.388 | 5.90 |
| 12) | | 2,2'-oxybis(1-Chl | | 1.215 | 1.245 | 1.193 | 1.155 | 1.042 | 1.170 | 6.74 |
| 13) | S | 4-Methylphenol-d8 | | 1.410 | 1.510 | 1.481 | 1.436 | 1.265 | 1.420 | 6.71 |
| 14) | | Acetophenone | | 2.361 | 2.479 | 2.315 | 2.187 | 1.863 | 2.241 | 10.51 |
| 15) | P | N-Nitroso-di-n-pr | 0.973 | 1.073 | 1.131 | 1.057 | 1.003 | | 1.048 | 5.91 |
| 16) | | 4-Methylphenol | | 1.517 | 1.644 | 1.598 | 1.532 | 1.318 | 1.522 | 8.21 |
| 17) | | Hexachloroethane | 0.520 | 0.573 | 0.588 | 0.569 | 0.559 | | 0.562 | 4.60 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.127 | 0.145 | 0.158 | 0.159 | 0.157 | | 0.149 | 9.29 |
| 20) | | Nitrobenzene | 0.283 | 0.309 | 0.333 | 0.325 | 0.318 | | 0.313 | 6.16 |
| 21) | | Isophorone | 0.603 | 0.648 | 0.692 | 0.652 | 0.625 | | 0.644 | 5.17 |
| 22) | S | 2-Nitrophenol-d4 | 0.141 | 0.163 | 0.184 | 0.183 | 0.184 | | 0.171 | 11.01 |
| 23) | C | 2-Nitrophenol | 0.164 | 0.191 | 0.207 | 0.206 | 0.201 | | 0.194 | 9.11 |
| 24) | | 2,4-Dimethylpheno | 0.349 | 0.376 | 0.398 | 0.384 | 0.369 | | 0.375 | 4.82 |
| 25) | | Bis(2-Chloroethox | 0.377 | 0.410 | 0.425 | 0.406 | 0.388 | | 0.401 | 4.70 |
| 26) | S | 2,4-Dichloropheno | 0.271 | 0.308 | 0.331 | 0.323 | 0.314 | | 0.310 | 7.40 |
| 27) | C | 2,4-Dichloropheno | 0.286 | 0.323 | 0.347 | 0.339 | 0.328 | | 0.325 | 7.25 |
| 28) | | Naphthalene | 1.087 | 1.118 | 1.154 | 1.092 | 1.049 | | 1.100 | 3.54 |
| 29) | S | 4-Chloroaniline-d | | 0.388 | 0.451 | 0.419 | 0.375 | 0.270 | 0.381 | 17.98 |
| 30) | | 4-Chloroaniline | | 0.415 | 0.480 | 0.446 | 0.396 | 0.290 | 0.405 | 17.73 |
| 31) | C | Hexachlorobutadie | 0.204 | 0.214 | 0.216 | 0.213 | 0.207 | | 0.211 | 2.49 |
| 32) | | Caprolactam | | 0.090 | 0.107 | 0.104 | 0.098 | 0.087 | 0.097 | 8.94 |
| 33) | C | 4-Chloro-3-methyl | 0.325 | 0.364 | 0.388 | 0.367 | 0.346 | | 0.358 | 6.60 |
| 34) | | 2-Methylnaphthale | 0.815 | 0.848 | 0.875 | 0.814 | 0.770 | | 0.824 | 4.84 |
| 35) | | 1-Methylnaphthale | 0.788 | 0.816 | 0.832 | 0.773 | 0.721 | | 0.786 | 5.48 |
| 36) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 37) | | 1,2,4,5-Tetrachlo | 0.641 | 0.680 | 0.699 | 0.696 | 0.686 | | 0.681 | 3.41 |
| 38) | | Hexachlorocyclope | | 0.134 | 0.204 | 0.272 | 0.331 | 0.375 | 0.263 | 36.72 |
| 39) | C | 2,4,6-Trichloroph | 0.377 | 0.419 | 0.445 | 0.443 | 0.444 | | 0.426 | 6.95 |
| 40) | | 2,4,5-Trichloroph | 0.411 | 0.447 | 0.482 | 0.470 | 0.476 | | 0.457 | 6.27 |
| 41) | | 1,1'-Biphenyl | 1.696 | 1.767 | 1.787 | 1.723 | 1.662 | | 1.727 | 2.97 |
| 42) | | 2-Chloronaphthale | 1.249 | 1.321 | 1.366 | 1.324 | 1.297 | | 1.311 | 3.27 |
| 43) | | 2-Nitroaniline | 0.224 | 0.285 | 0.313 | 0.317 | 0.314 | | 0.291 | 13.52 |
| 44) | S | Dimethylphthalate | 1.640 | 1.713 | 1.767 | 1.641 | 1.557 | | 1.664 | 4.81 |
| 45) | | Dimethylphthalate | 1.756 | 1.819 | 1.840 | 1.713 | 1.618 | | 1.749 | 5.09 |
| 46) | | 2,6-Dinitrotoluen | 0.300 | 0.345 | 0.379 | 0.368 | 0.361 | | 0.351 | 8.79 |
| 47) | S | Acenaphthylene-d8 | 1.926 | 2.061 | 2.115 | 2.013 | 1.942 | | 2.012 | 3.95 |
| 48) | | Acenaphthylene | 2.093 | 2.220 | 2.258 | 2.159 | 2.053 | | 2.157 | 3.95 |
| 49) | | 3-Nitroaniline | | 0.318 | 0.374 | 0.359 | 0.313 | 0.286 | 0.330 | 10.86 |
| 50) | C | Acenaphthene | 1.482 | 1.531 | 1.548 | 1.446 | 1.378 | | 1.477 | 4.61 |
| 51) | | 2,4-Dinitrophenol | | 0.117 | 0.171 | 0.186 | 0.205 | 0.207 | 0.177 | 20.80 |

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| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | S | 4-Nitrophenol-d4 | | 0.215 | 0.257 | 0.256 | 0.250 | 0.250 | 0.245 | 7.08 |
| 53) | | 4-Nitrophenol | | 0.149 | 0.173 | 0.176 | 0.171 | 0.173 | 0.169 | 6.46 |
| 54) | | Dibenzofuran | 2.076 | 2.170 | 2.181 | 2.019 | 1.878 | | 2.065 | 6.01 |
| 55) | | 2,4-Dinitrotoluen | 0.472 | 0.537 | 0.562 | 0.518 | 0.474 | | 0.512 | 7.70 |
| 56) | | 2,3,4,6-Tetrachlo | 0.350 | 0.398 | 0.420 | 0.412 | 0.397 | | 0.395 | 6.87 |
| 57) | | Diethylphthalate | 1.797 | 1.862 | 1.907 | 1.726 | 1.595 | | 1.777 | 6.90 |
| 58) | S | Fluorene-d10 | 1.474 | 1.508 | 1.515 | 1.405 | 1.313 | | 1.443 | 5.89 |
| 59) | | Fluorene | 1.747 | 1.790 | 1.808 | 1.644 | 1.487 | | 1.695 | 7.82 |
| 60) | | 4-Chlorophenyl-ph | 0.885 | 0.909 | 0.905 | 0.829 | 0.760 | | 0.858 | 7.36 |
| 61) | | 4-Nitroaniline | | 0.336 | 0.396 | 0.356 | 0.312 | 0.335 | 0.347 | 9.04 |
| 62) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 63) | S | 4,6-Dinitro-2-met | | 0.111 | 0.133 | 0.135 | 0.136 | 0.133 | 0.130 | 8.37 |
| 64) | | 4,6-Dinitro-2-met | | 0.126 | 0.144 | 0.145 | 0.145 | 0.143 | 0.140 | 5.94 |
| 65) | | N-Nitrosodiphenyl | 0.625 | 0.653 | 0.684 | 0.658 | 0.653 | | 0.655 | 3.17 |
| 66) | | 4-Bromophenyl-phe | 0.215 | 0.227 | 0.237 | 0.234 | 0.232 | | 0.229 | 3.71 |
| 67) | | Hexachlorobenzene | 0.241 | 0.252 | 0.262 | 0.255 | 0.252 | | 0.252 | 3.09 |
| 68) | | Atrazine | | 0.238 | 0.249 | 0.237 | 0.228 | 0.212 | 0.233 | 5.88 |
| 69) | C | Pentachlorophenol | | 0.085 | 0.105 | 0.109 | 0.115 | 0.116 | 0.106 | 11.76 |
| 70) | | Phenanthrene | 1.204 | 1.236 | 1.262 | 1.173 | 1.115 | | 1.198 | 4.78 |
| 71) | S | Anthracene-d10 | 0.968 | 1.001 | 1.035 | 0.965 | 0.924 | | 0.979 | 4.28 |
| 72) | | Anthracene | 1.201 | 1.261 | 1.290 | 1.203 | 1.133 | | 1.218 | 4.97 |
| 73) | | 1,2,3,4-Tetrachlo | 0.253 | 0.271 | 0.288 | 0.297 | 0.314 | | 0.285 | 8.21 |
| 74) | | Pentachlorobenzen | 0.278 | 0.282 | 0.296 | 0.297 | 0.303 | | 0.291 | 3.68 |
| 75) | | Carbazole | | 1.080 | 1.126 | 1.031 | 0.972 | 0.942 | 1.030 | 7.35 |
| 76) | | Di-n-butylphthala | 1.290 | 1.360 | 1.435 | 1.306 | 1.225 | | 1.323 | 5.98 |
| 77) | C | Fluoranthene | | 1.437 | 1.451 | 1.257 | 1.159 | 1.152 | 1.291 | 11.29 |
| 78) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 79) | S | Pyrene-d10 | 0.986 | 1.046 | 1.117 | 1.138 | 1.091 | | 1.076 | 5.62 |
| 80) | | Pyrene | 1.350 | 1.436 | 1.502 | 1.524 | 1.445 | | 1.451 | 4.68 |
| 81) | | Butylbenzylphthal | 0.520 | 0.564 | 0.604 | 0.593 | 0.587 | | 0.574 | 5.79 |
| 82) | | 3,3'-Dichlorobenz | | 0.425 | 0.458 | 0.434 | 0.394 | 0.361 | 0.414 | 9.04 |
| 83) | | Benzo(a)anthracen | 1.269 | 1.319 | 1.354 | 1.273 | 1.240 | | 1.291 | 3.48 |
| 84) | | Bis(2-ethylhexyl) | 0.767 | 0.812 | 0.850 | 0.818 | 0.798 | | 0.809 | 3.74 |
| 85) | | Chrysene | 1.236 | 1.272 | 1.289 | 1.219 | 1.172 | | 1.238 | 3.73 |
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Di-n-octyl phthal | | 1.543 | 1.727 | 1.558 | 1.447 | 1.239 | 1.503 | 11.87 |
| 88) | | Benzo(b)fluoranth | 1.278 | 1.358 | 1.453 | 1.336 | 1.239 | | 1.333 | 6.16 |
| 89) | | Benzo(k)fluoranth | 1.330 | 1.344 | 1.416 | 1.279 | 1.236 | | 1.321 | 5.15 |
| 90) | S | Benzo(a)pyrene-d1 | 1.021 | 1.063 | 1.138 | 1.068 | 1.031 | | 1.064 | 4.30 |
| 91) | C | Benzo(a)pyrene | 1.212 | 1.253 | 1.351 | 1.260 | 1.219 | | 1.259 | 4.41 |
| 92) | | Indeno(1,2,3-cd)p | 1.121 | 1.173 | 1.268 | 1.355 | 1.354 | | 1.254 | 8.42 |
| 93) | | Dibenzo(a,h)anthr | 0.908 | 0.960 | 1.063 | 1.127 | 1.129 | | 1.037 | 9.63 |
| 94) | | Benzo(g,h,i)peryl | 0.928 | 0.974 | 1.064 | 1.150 | 1.166 | | 1.056 | 9.93 |

(#) = Out of Range