# Response Factor Report GC/MS Ins

Method Path : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\
Method File : SFAM01-EPA-BG092820.M
Title : SVOA CALIBRATION
Last Update : Mon Sep 28 14:51:01 2020
Response Via : Initial Calibration

Calibration Files
5 =BG046714.D 10 =BG046715.D 20 =BG046716.D
40 =BG046717.D 80 =BG046718.D 160 =BG046719.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.495 | 0.486 | 0.443 | 0.496 | 0.522 | | 0.488 | 5.91 |
| 3) | S | 1,4-Dioxane-d8 | 0.540 | 0.406 | 0.343 | 0.414 | 0.431 | | 0.427 | 16.74 |
| 4) | | Benzaldehyde | | 1.249 | 1.166 | 1.303 | 1.224 | 1.027 | 1.194 | 8.82 |
| 5) | S | Phenol-d5 | | 1.610 | 1.535 | 1.716 | 1.912 | 1.636 | 1.682 | 8.57 |
| 6) | | Phenol | | 1.758 | 1.613 | 1.850 | 1.961 | 1.700 | 1.776 | 7.57 |
| 7) | S | Bis-(2-Chloroethy | | 1.123 | 0.982 | 1.064 | 1.149 | 0.990 | 1.062 | 7.10 |
| 8) | | Bis(2-Chloroethyl | | 1.408 | 1.270 | 1.404 | 1.516 | 1.308 | 1.381 | 6.97 |
| 9) | S | 2-Chlorophenol-d4 | 1.148 | 1.186 | 1.117 | 1.283 | 1.381 | | 1.223 | 8.84 |
| 10) | | 2-Chlorophenol | 1.214 | 1.222 | 1.143 | 1.269 | 1.414 | | 1.252 | 8.04 |
| 11) | | 2-Methylphenol | | 1.248 | 1.222 | 1.366 | 1.480 | 1.307 | 1.325 | 7.78 |
| 12) | | 2,2'-oxybis(1-Chl | | 2.261 | 2.083 | 2.211 | 2.370 | 2.017 | 2.188 | 6.43 |
| 13) | S | 4-Methylphenol-d8 | | 1.259 | 1.197 | 1.366 | 1.479 | 1.307 | 1.321 | 8.17 |
| 14) | | Acetophenone | | 2.216 | 2.010 | 2.194 | 2.363 | 2.040 | 2.165 | 6.63 |
| 15) | P | N-Nitroso-di-n-pr | 1.172 | 1.236 | 1.094 | 1.199 | 1.278 | | 1.196 | 5.82 |
| 16) | | 4-Methylphenol | | 1.353 | 1.237 | 1.446 | 1.554 | 1.348 | 1.387 | 8.56 |
| 17) | | Hexachloroethane | 0.523 | 0.582 | 0.530 | 0.569 | 0.626 | | 0.566 | 7.40 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.104 | 0.121 | 0.111 | 0.139 | 0.164 | | 0.128 | 18.71 |
| 20) | | Nitrobenzene | 0.307 | 0.350 | 0.333 | 0.420 | 0.464 | | 0.375 | 17.44 |
| 21) | | Isophorone | 0.829 | 0.891 | 0.729 | 0.855 | 0.881 | | 0.837 | 7.76 |
| 22) | S | 2-Nitrophenol-d4 | 0.116 | 0.130 | 0.112 | 0.148 | 0.175 | | 0.136 | 19.06 |
| 23) | C | 2-Nitrophenol | 0.124 | 0.131 | 0.125 | 0.174 | 0.196 | | 0.150 | 22.08# |
| 24) | | 2,4-Dimethylpheno | 0.389 | 0.407 | 0.362 | 0.420 | 0.443 | | 0.404 | 7.61 |
| 25) | | Bis(2-Chloroethox | 0.484 | 0.511 | 0.424 | 0.484 | 0.507 | | 0.482 | 7.20 |
| 26) | S | 2,4-Dichloropheno | 0.279 | 0.348 | 0.305 | 0.362 | 0.395 | | 0.338 | 13.60 |
| 27) | C | 2,4-Dichloropheno | 0.292 | 0.341 | 0.294 | 0.353 | 0.383 | | 0.333 | 11.79 |
| 28) | | Naphthalene | 1.112 | 1.173 | 0.954 | 1.108 | 1.159 | | 1.101 | 7.93 |
| 29) | S | 4-Chloroaniline-d | | 0.467 | 0.381 | 0.445 | 0.453 | 0.348 | 0.419 | 12.33 |
| 30) | | 4-Chloroaniline | | 0.446 | 0.383 | 0.420 | 0.432 | 0.331 | 0.403 | 11.50 |
| 31) | C | Hexachlorobutadie | 0.306 | 0.312 | 0.256 | 0.299 | 0.314 | | 0.297 | 8.02 |
| 32) | | Caprolactam | | 0.121 | 0.101 | 0.124 | 0.131 | 0.117 | 0.119 | 9.42 |
| 33) | C | 4-Chloro-3-methyl | 0.345 | 0.389 | 0.323 | 0.387 | 0.410 | | 0.371 | 9.64 |
| 34) | | 2-Methylnaphthale | 0.837 | 0.857 | 0.707 | 0.812 | 0.840 | | 0.811 | 7.42 |
| 35) | | 1-Methylnaphthale | 0.803 | 0.844 | 0.680 | 0.785 | 0.819 | | 0.786 | 8.06 |
| 36) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 37) | | 1,2,4,5-Tetrachlo | 0.773 | 0.759 | 0.623 | 0.739 | 0.783 | | 0.735 | 8.84 |
| 38) | | Hexachlorocyclope | | 0.441 | 0.379 | 0.481 | 0.543 | 0.504 | 0.470 | 13.31 |
| 39) | C | 2,4,6-Trichloroph | 0.363 | 0.419 | 0.355 | 0.442 | 0.501 | | 0.416 | 14.51 |
| 40) | | 2,4,5-Trichloroph | 0.379 | 0.432 | 0.377 | 0.470 | 0.526 | | 0.437 | 14.54 |
| 41) | | 1,1'-Biphenyl | 1.635 | 1.625 | 1.330 | 1.553 | 1.611 | | 1.551 | 8.21 |
| 42) | | 2-Chloronaphthale | 1.268 | 1.309 | 1.052 | 1.233 | 1.294 | | 1.231 | 8.47 |
| 43) | | 2-Nitroaniline | 0.200 | 0.248 | 0.239 | 0.330 | 0.400 | | 0.283 | 28.49 |
| 44) | S | Dimethylphthalate | 1.508 | 1.607 | 1.282 | 1.542 | 1.624 | | 1.513 | 9.06 |
| 45) | | Dimethylphthalate | 1.585 | 1.672 | 1.333 | 1.595 | 1.622 | | 1.562 | 8.45 |
| 46) | | 2,6-Dinitrotoluen | 0.209 | 0.230 | 0.203 | 0.277 | 0.320 | | 0.248 | 20.04 |
| 47) | S | Acenaphthylene-d8 | 1.860 | 1.938 | 1.551 | 1.825 | 1.880 | | 1.811 | 8.34 |
| 48) | | Acenaphthylene | 1.889 | 1.928 | 1.555 | 1.823 | 1.858 | | 1.811 | 8.19 |
| 49) | | 3-Nitroaniline | | 0.224 | 0.213 | 0.269 | 0.294 | 0.237 | 0.247 | 13.43 |
| 50) | C | Acenaphthene | 1.327 | 1.339 | 1.093 | 1.300 | 1.349 | | 1.282 | 8.37 |
| 51) | | 2,4-Dinitrophenol | | 0.109 | 0.100 | 0.148 | 0.184 | 0.184 | 0.145 | 27.71 |

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| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | S | 4-Nitrophenol-d4 | | 0.209 | 0.187 | 0.255 | 0.288 | 0.266 | 0.241 | 17.38 |
| 53) | | 4-Nitrophenol | | 0.200 | 0.186 | 0.248 | 0.289 | 0.265 | 0.238 | 18.36 |
| 54) | | Dibenzofuran | 2.010 | 1.993 | 1.619 | 1.871 | 1.909 | | 1.880 | 8.34 |
| 55) | | 2,4-Dinitrotoluen | 0.280 | 0.288 | 0.285 | 0.382 | 0.454 | | 0.338 | 23.05 |
| 56) | | 2,3,4,6-Tetrachlo | 0.345 | 0.396 | 0.356 | 0.450 | 0.505 | | 0.411 | 16.26 |
| 57) | | Diethylphthalate | 1.541 | 1.636 | 1.324 | 1.587 | 1.635 | | 1.544 | 8.37 |
| 58) | S | Fluorene-d10 | 1.426 | 1.476 | 1.221 | 1.418 | 1.493 | | 1.407 | 7.73 |
| 59) | | Fluorene | 1.646 | 1.691 | 1.289 | 1.532 | 1.583 | | 1.548 | 10.15 |
| 60) | | 4-Chlorophenyl-ph | 0.908 | 0.942 | 0.735 | 0.856 | 0.932 | | 0.874 | 9.71 |
| 61) | | 4-Nitroaniline | | 0.278 | 0.243 | 0.303 | 0.320 | 0.272 | 0.283 | 10.44 |
| 62) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 63) | S | 4,6-Dinitro-2-met | | 0.073 | 0.065 | 0.090 | 0.110 | 0.114 | 0.090 | 24.11 |
| 64) | | 4,6-Dinitro-2-met | | 0.077 | 0.070 | 0.100 | 0.126 | 0.124 | 0.099 | 26.03 |
| 65) | | N-Nitrosodiphenyl | 0.588 | 0.613 | 0.489 | 0.584 | 0.600 | | 0.575 | 8.57 |
| 66) | | 4-Bromophenyl-phe | 0.253 | 0.264 | 0.208 | 0.255 | 0.272 | | 0.251 | 9.94 |
| 67) | | Hexachlorobenzene | 0.127 | 0.251 | 0.121 | 0.257 | 0.268 | | 0.205 | 36.19 |
| 68) | | Atrazine | | 0.250 | 0.199 | 0.245 | 0.260 | 0.226 | 0.236 | 10.26 |
| 69) | C | Pentachlorophenol | | 0.130 | 0.119 | 0.159 | 0.181 | 0.166 | 0.151 | 17.01 |
| 70) | | Phenanthrene | 1.162 | 1.188 | 0.933 | 1.095 | 1.106 | | 1.097 | 9.04 |
| 71) | S | Anthracene-d10 | 0.968 | 0.991 | 0.789 | 0.912 | 0.925 | | 0.917 | 8.54 |
| 72) | | Anthracene | 1.195 | 1.200 | 0.943 | 1.093 | 1.093 | | 1.105 | 9.46 |
| 73) | | 1,2,3,4-Tetrachlo | 0.316 | 0.319 | 0.266 | 0.317 | 0.336 | | 0.311 | 8.55 |
| 74) | | Pentachlorobenzen | 0.336 | 0.333 | 0.267 | 0.317 | 0.339 | | 0.319 | 9.42 |
| 75) | | Carbazole | | 1.002 | 0.795 | 0.939 | 0.937 | 0.774 | 0.889 | 11.18 |
| 76) | | Di-n-butylphthala | 1.060 | 1.171 | 0.955 | 1.127 | 1.115 | | 1.085 | 7.66 |
| 77) | C | Fluoranthene | 1.476 | 1.522 | 1.197 | 1.381 | 1.331 | | 1.381 | 9.26 |
| 78) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 79) | S | Pyrene-d10 | 1.048 | 1.063 | 0.918 | 1.084 | 1.092 | | 1.041 | 6.83 |
| 80) | | Pyrene | 1.337 | 1.375 | 1.132 | 1.304 | 1.287 | | 1.287 | 7.23 |
| 81) | | Butylbenzylphthal | 0.405 | 0.449 | 0.398 | 0.489 | 0.520 | | 0.452 | 11.61 |
| 82) | | 3,3'-Dichlorobenz | | 0.485 | 0.420 | 0.509 | 0.497 | 0.383 | 0.459 | 11.87 |
| 83) | | Benzo(a)anthracen | 1.390 | 1.413 | 1.141 | 1.317 | 1.335 | | 1.319 | 8.11 |
| 84) | | Bis(2-ethylhexyl) | 0.624 | 0.680 | 0.586 | 0.701 | 0.737 | | 0.666 | 9.10 |
| 85) | | Chrysene | 1.358 | 1.360 | 1.092 | 1.277 | 1.286 | | 1.274 | 8.57 |
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Di-n-octyl phthal | | 1.136 | 0.973 | 1.177 | 1.232 | 1.022 | 1.108 | 9.73 |
| 88) | | Benzo(b)fluoranth | 1.380 | 1.401 | 1.113 | 1.323 | 1.397 | | 1.323 | 9.17 |
| 89) | | Benzo(k)fluoranth | 1.324 | 1.401 | 1.097 | 1.323 | 1.325 | | 1.294 | 8.89 |
| 90) | S | Benzo(a)pyrene-d1 | 1.075 | 1.127 | 0.911 | 1.126 | 1.166 | | 1.081 | 9.29 |
| 91) | C | Benzo(a)pyrene | 1.284 | 1.278 | 1.026 | 1.231 | 1.263 | | 1.216 | 8.93 |
| 92) | | Indeno(1,2,3-cd)p | 1.484 | 1.544 | 1.249 | 1.515 | 1.590 | | 1.476 | 9.02 |
| 93) | | Dibenzo(a,h)anthr | 1.245 | 1.284 | 1.041 | 1.253 | 1.299 | | 1.224 | 8.55 |
| 94) | | Benzo(g,h,i)peryl | 1.258 | 1.289 | 1.039 | 1.249 | 1.319 | | 1.231 | 8.98 |

(#) = Out of Range