# Response Factor Report gcms1

Method Path : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\
Method File : SOM-EPA-BM072319MA.M
Title : SVOA CALIBRATION
Last Update : Wed Jul 24 01:21:49 2019
Response Via : Initial Calibration

Calibration Files
5 =BM021606.D 10 =BM021607.D 20 =BM021614.D
40 =BM021609.D 80 =BM021610.D 160 =BM021611.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.513 | 0.441 | 0.358 | 0.388 | 0.380 | | 0.416 | 14.94 |
| 3) | S | 1,4-Dioxane-d8 | 0.391 | 0.359 | 0.354 | 0.364 | 0.365 | | 0.367 | 3.91 |
| 4) | | Benzaldehyde | | 0.740 | 0.730 | 0.908 | 0.602 | 0.595 | 0.715 | 17.87 |
| 5) | S | Phenol-d5 | | 1.565 | 1.455 | 1.775 | 1.778 | 1.909 | 1.696 | 10.75 |
| 6) | | Phenol | | 1.484 | 1.507 | 1.675 | 1.682 | 1.811 | 1.632 | 8.33 |
| 7) | S | Bis-(2-Chloroethy | | 0.962 | 0.849 | 1.047 | 1.013 | 1.050 | 0.984 | 8.50 |
| 8) | | Bis(2-Chloroethyl | | 1.154 | 1.154 | 1.252 | 1.213 | 1.261 | 1.207 | 4.25 |
| 9) | S | 2-Chlorophenol-d4 | 1.293 | 1.280 | 1.175 | 1.447 | 1.457 | | 1.330 | 9.02 |
| 10) | | 2-Chlorophenol | 1.305 | 1.185 | 1.209 | 1.355 | 1.361 | | 1.283 | 6.37 |
| 11) | | 2-Methylphenol | | 1.132 | 1.165 | 1.329 | 1.326 | 1.431 | 1.277 | 9.80 |
| 12) | | 2,2'-oxybis(1-Chl | | 1.566 | 1.552 | 1.660 | 1.585 | 1.631 | 1.599 | 2.83 |
| 13) | S | 4-Methylphenol-d8 | | 1.327 | 1.286 | 1.509 | 1.499 | 1.625 | 1.449 | 9.66 |
| 14) | | Acetophenone | | 2.121 | 2.050 | 2.258 | 2.155 | 2.290 | 2.175 | 4.56 |
| 15) | P | N-Nitroso-di-n-pr | 1.045 | 1.009 | 1.047 | 1.150 | 1.098 | | 1.070 | 5.12 |
| 16) | | 4-Methylphenol | | 1.270 | 1.325 | 1.475 | 1.427 | 1.552 | 1.410 | 8.05 |
| 17) | | Hexachloroethane | 0.626 | 0.556 | 0.527 | 0.580 | 0.568 | | 0.571 | 6.36 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.136 | 0.139 | 0.132 | 0.165 | 0.168 | | 0.148 | 11.51 |
| 20) | | Nitrobenzene | 0.382 | 0.346 | 0.346 | 0.382 | 0.373 | | 0.366 | 5.00 |
| 21) | | Isophorone | 0.711 | 0.659 | 0.656 | 0.730 | 0.717 | | 0.695 | 4.98 |
| 22) | S | 2-Nitrophenol-d4 | 0.139 | 0.140 | 0.138 | 0.182 | 0.194 | | 0.159 | 17.15 |
| 23) | C | 2-Nitrophenol | 0.150 | 0.147 | 0.154 | 0.186 | 0.189 | | 0.165 | 12.37 |
| 24) | | 2,4-Dimethylpheno | 0.358 | 0.341 | 0.348 | 0.384 | 0.378 | | 0.362 | 5.16 |
| 25) | | Bis(2-Chloroethox | 0.429 | 0.386 | 0.389 | 0.428 | 0.416 | | 0.410 | 5.04 |
| 26) | S | 2,4-Dichloropheno | 0.342 | 0.326 | 0.314 | 0.391 | 0.398 | | 0.354 | 10.76 |
| 27) | C | 2,4-Dichloropheno | 0.340 | 0.302 | 0.307 | 0.353 | 0.353 | | 0.331 | 7.47 |
| 28) | | Naphthalene | 1.101 | 0.973 | 0.940 | 1.033 | 1.020 | | 1.014 | 6.09 |
| 29) | S | 4-Chloroaniline-d | | 0.381 | 0.349 | 0.411 | 0.327 | 0.250 | 0.344 | 17.85 |
| 30) | | 4-Chloroaniline | | 0.363 | 0.357 | 0.395 | 0.317 | 0.243 | 0.335 | 17.43 |
| 31) | C | Hexachlorobutadie | 0.254 | 0.227 | 0.215 | 0.237 | 0.235 | | 0.234 | 6.22 |
| 32) | | Caprolactam | | 0.083 | 0.110 | 0.105 | 0.109 | 0.110 | 0.103 | 11.43 |
| 33) | C | 4-Chloro-3-methyl | 0.355 | 0.329 | 0.336 | 0.377 | 0.369 | | 0.353 | 5.90 |
| 34) | | 2-Methylnaphthale | 0.844 | 0.750 | 0.734 | 0.806 | 0.784 | | 0.784 | 5.62 |
| 35) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 36) | | 1,2,4,5-Tetrachlo | 0.723 | 0.652 | 0.628 | 0.725 | 0.721 | | 0.690 | 6.73 |
| 37) | | Hexachlorocyclope | | 0.222 | 0.263 | 0.347 | 0.385 | 0.435 | 0.330 | 26.48 |
| 38) | C | 2,4,6-Trichloroph | 0.406 | 0.373 | 0.392 | 0.467 | 0.479 | | 0.424 | 11.06 |
| 39) | | 2,4,5-Trichloroph | 0.441 | 0.417 | 0.431 | 0.501 | 0.516 | | 0.461 | 9.65 |
| 40) | | 1,1'-Biphenyl | 1.657 | 1.481 | 1.411 | 1.614 | 1.577 | | 1.548 | 6.50 |
| 41) | | 2-Chloronaphthale | 1.295 | 1.173 | 1.140 | 1.289 | 1.279 | | 1.235 | 5.91 |
| 42) | | 2-Nitroaniline | 0.211 | 0.220 | 0.256 | 0.338 | 0.355 | | 0.276 | 24.20 |
| 43) | S | Dimethylphthalate | 1.705 | 1.674 | 1.509 | 1.867 | 1.815 | | 1.714 | 8.11 |
| 44) | | Dimethylphthalate | 1.741 | 1.578 | 1.531 | 1.710 | 1.666 | | 1.645 | 5.38 |
| 45) | | 2,6-Dinitrotoluen | 0.207 | 0.214 | 0.256 | 0.335 | 0.352 | | 0.273 | 24.74 |
| 46) | S | Acenaphthylene-d8 | 2.042 | 2.006 | 1.849 | 2.271 | 2.253 | | 2.084 | 8.52 |
| 47) | | Acenaphthylene | 1.928 | 1.766 | 1.707 | 1.946 | 1.902 | | 1.850 | 5.76 |
| 48) | | 3-Nitroaniline | | 0.184 | 0.224 | 0.312 | 0.313 | 0.318 | 0.270 | 22.94 |
| 49) | C | Acenaphthene | 1.468 | 1.304 | 1.244 | 1.398 | 1.368 | | 1.356 | 6.36 |
| 50) | | 2,4-Dinitrophenol | | 0.094 | 0.123 | 0.183 | 0.216 | 0.258 | 0.175 | 38.27 |
| 51) | S | 4-Nitrophenol-d4 | | 0.223 | 0.235 | 0.330 | 0.340 | 0.343 | 0.294 | 20.36 |

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| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | | 4-Nitrophenol | | 0.178 | 0.207 | 0.259 | 0.262 | 0.254 | 0.232 | 16.17 |
| 53) | | Dibenzofuran | 2.182 | 1.945 | 1.836 | 2.053 | 1.998 | | 2.003 | 6.41 |
| 54) | | 2,4-Dinitrotoluen | 0.392 | 0.404 | 0.439 | 0.537 | 0.545 | | 0.463 | 15.73 |
| 55) | | 2,3,4,6-Tetrachlo | 0.422 | 0.397 | 0.406 | 0.485 | 0.487 | | 0.439 | 9.83 |
| 56) | | Diethylphthalate | 1.606 | 1.505 | 1.488 | 1.706 | 1.667 | | 1.594 | 6.04 |
| 57) | S | Fluorene-d10 | 1.555 | 1.535 | 1.340 | 1.679 | 1.622 | | 1.546 | 8.31 |
| 58) | | Fluorene | 1.786 | 1.583 | 1.524 | 1.709 | 1.681 | | 1.657 | 6.28 |
| 59) | | 4-Chlorophenyl-ph | 0.999 | 0.881 | 0.846 | 0.944 | 0.933 | | 0.921 | 6.42 |
| 60) | | 4-Nitroaniline | | 0.189 | 0.232 | 0.338 | 0.358 | 0.357 | 0.295 | 26.81 |
| 61) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 62) | S | 4,6-Dinitro-2-met | | 0.082 | 0.092 | 0.135 | 0.150 | 0.167 | 0.125 | 29.57 |
| 63) | | 4,6-Dinitro-2-met | | 0.084 | 0.098 | 0.133 | 0.146 | 0.159 | 0.124 | 25.67 |
| 64) | | N-Nitrosodiphenyl | 0.555 | 0.512 | 0.503 | 0.574 | 0.573 | | 0.543 | 6.22 |
| 65) | | 4-Bromophenyl-phe | 0.229 | 0.209 | 0.204 | 0.238 | 0.242 | | 0.224 | 7.74 |
| 66) | | Hexachlorobenzene | 0.289 | 0.263 | 0.250 | 0.283 | 0.284 | | 0.274 | 5.99 |
| 67) | | Atrazine | | 0.164 | 0.221 | 0.217 | 0.206 | 0.200 | 0.202 | 11.19 |
| 68) | C | Pentachlorophenol | | 0.120 | 0.132 | 0.164 | 0.176 | 0.187 | 0.156 | 18.44 |
| 69) | | Phenanthrene | 1.176 | 1.047 | 0.991 | 1.126 | 1.114 | | 1.091 | 6.63 |
| 70) | S | Anthracene-d10 | 0.957 | 0.964 | 0.864 | 1.069 | 1.066 | | 0.984 | 8.73 |
| 71) | | Anthracene | 1.154 | 1.055 | 1.008 | 1.154 | 1.148 | | 1.104 | 6.18 |
| 72) | | 1,2,3,4-Tetrachlo | 0.278 | 0.249 | 0.243 | 0.282 | 0.287 | | 0.268 | 7.44 |
| 73) | | Pentachlorobenzen | 0.332 | 0.283 | 0.282 | 0.304 | 0.306 | | 0.301 | 6.70 |
| 74) | | Carbazole | | 0.883 | 0.870 | 1.005 | 1.002 | 0.973 | 0.946 | 6.90 |
| 75) | | Di-n-butylphthala | 0.862 | 0.897 | 0.939 | 1.137 | 1.137 | | 0.994 | 13.36 |
| 76) | C | Fluoranthene | | 1.276 | 1.248 | 1.457 | 1.448 | 1.335 | 1.353 | 7.13 |
| 77) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 78) | S | Pyrene-d10 | 0.969 | 0.955 | 0.859 | 1.058 | 1.040 | | 0.976 | 8.10 |
| 79) | | Pyrene | 1.279 | 1.136 | 1.095 | 1.236 | 1.212 | | 1.191 | 6.30 |
| 80) | | Butylbenzylphthal | 0.299 | 0.322 | 0.352 | 0.441 | 0.455 | | 0.374 | 18.82 |
| 81) | | 3,3'-Dichlorobenz | | 0.297 | 0.330 | 0.442 | 0.449 | 0.450 | 0.394 | 18.85 |
| 82) | | Benzo(a)anthracen | 1.381 | 1.257 | 1.203 | 1.372 | 1.342 | | 1.311 | 5.93 |
| 83) | | Bis(2-ethylhexyl) | 0.438 | 0.477 | 0.506 | 0.652 | 0.661 | | 0.547 | 18.89 |
| 84) | | Chrysene | 1.349 | 1.204 | 1.142 | 1.293 | 1.263 | | 1.250 | 6.40 |
| 85) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 86) | | Di-n-octyl phthal | | 0.724 | 0.798 | 1.003 | 1.025 | 0.971 | 0.904 | 14.88 |
| 87) | | Benzo(b)fluoranth | 1.227 | 1.111 | 1.136 | 1.276 | 1.296 | | 1.209 | 6.83 |
| 88) | | Benzo(k)fluoranth | 1.278 | 1.122 | 1.061 | 1.246 | 1.223 | | 1.186 | 7.67 |
| 89) | S | Benzo(a)pyrene-d1 | 0.971 | 1.047 | 0.889 | 1.211 | 1.221 | | 1.068 | 13.72 |
| 90) | C | Benzo(a)pyrene | 1.176 | 1.091 | 1.068 | 1.234 | 1.237 | | 1.161 | 6.78 |
| 91) | | Indeno(1,2,3-cd)p | 1.351 | 1.336 | 1.310 | 1.536 | 1.517 | | 1.410 | 7.62 |
| 92) | | Dibenzo(a,h)anthr | 1.124 | 1.129 | 1.093 | 1.301 | 1.282 | | 1.186 | 8.23 |
| 93) | | Benzo(g,h,i)peryl | 1.106 | 1.103 | 1.060 | 1.240 | 1.200 | | 1.142 | 6.57 |

(#) = Out of Range