Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111422.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 15 03:52:41 2022
Response Via : Initial Calibration

Calibration Files
2.5 =BF131220.D 5 =BF131221.D 10 =BF131222.D 20 =BF131223.D 40 =BF131224.D 50 =BF131225.D 60 =BF131226.D 80 =BF1312
27.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.657 | 0.440 | 0.621 | 0.663 | 0.568 | 0.474 | 0.529 | 0.564 | 15.58 |
| 3) | | Pyridine | | 2.043 | 1.150 | 1.994 | 1.703 | 1.526 | 1.282 | 1.397 | 1.585 | 21.72 |
| 4) | | n-Nitrosodimet... | | 1.313 | 0.846 | 1.271 | 1.211 | 1.049 | 0.880 | 0.932 | 1.072 | 18.06 |
| 5) | S | 2-Fluorophenol | 1.284 | 1.410 | 1.262 | 1.571 | 1.567 | 1.107 | 1.099 | 1.158 | 1.307 | 14.62 |
| 6) | | Aniline | | 2.002 | 2.034 | 1.888 | 2.504 | 2.322 | 1.824 | 1.642 | 2.031 | 14.55 |
| 7) | S | Phenol-d6 | 1.733 | 1.626 | 1.642 | 1.448 | 2.012 | 1.865 | 1.328 | 1.365 | 1.627 | 14.81 |
| 8) | | 2-Chlorophenol | | 1.437 | 1.444 | 1.248 | 1.547 | 1.569 | 1.100 | 1.122 | 1.352 | 14.42 |
| 9) | | Benzaldehyde | | 1.242 | 1.213 | 1.109 | 0.989 | 0.813 | 0.686 | 0.817 | 0.981 | 22.02 |
| 10) | C | Phenol | | 1.938 | 1.976 | 1.773 | 2.346 | 2.154 | 1.693 | 1.569 | 1.921 | 14.03 |
| 11) | | bis(2-Chloroet... | | 1.417 | 1.428 | 1.229 | 1.565 | 1.636 | 1.218 | 1.176 | 1.381 | 13.01 |
| 12) | | 1,3-Dichlorobe... | | 1.577 | 1.597 | 1.556 | 1.887 | 1.484 | 1.083 | 1.442 | 1.518 | 15.76 |
| 13) | C | 1,4-Dichlorobe... | | 1.634 | 1.638 | 1.940 | 1.685 | 1.508 | 1.483 | 1.360 | 1.607 | 11.49 |
| 14) | | 1,2-Dichlorobe... | | 1.602 | 1.581 | 1.341 | 1.434 | 1.304 | 1.335 | 1.262 | 1.408 | 9.62 |
| 15) | | Benzyl Alcohol | | 0.995 | 1.043 | 1.111 | 1.231 | 1.077 | 1.152 | 1.085 | 1.099 | 6.94 |
| 16) | | 2,2'-oxybis(1-... | | 2.572 | 2.644 | 2.371 | 3.304 | 2.306 | 2.349 | 1.944 | 2.499 | 16.82 |
| 17) | | 2-Methylphenol | | 1.228 | 1.255 | 1.327 | 1.539 | 1.106 | 1.100 | 0.923 | 1.211 | 16.14 |
| 18) | | Hexachloroethane | | 0.637 | 0.634 | 0.773 | 0.856 | 0.574 | 0.462 | 0.602 | 0.648 | 20.05 |
| 19) | P | n-Nitroso-di-n... | 1.265 | 1.162 | 1.145 | 1.040 | 1.257 | 1.077 | 0.912 | 1.099 | 1.120 | 10.35 |
| 20) | | 3+4-Methylphenols | | 1.664 | 1.648 | 1.398 | 1.576 | 1.441 | 1.212 | 1.437 | 1.482 | 10.76 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.547 | 0.750 | 0.391 | 0.413 | 0.539 | 0.558 | 0.562 | 0.537 | 21.89 |
| 23) | S | Nitrobenzene-d5 | 0.436 | 0.454 | 0.617 | 0.437 | 0.447 | 0.441 | 0.427 | 0.471 | 0.466 | 13.39 |
| 24) | | Nitrobenzene | | 0.452 | 0.616 | 0.408 | 0.452 | 0.432 | 0.419 | 0.469 | 0.464 | 15.13 |
| 25) | | Isophorone | | 0.711 | 0.999 | 0.574 | 0.732 | 0.807 | 0.793 | 0.677 | 0.756 | 17.48 |
| 26) | C | 2-Nitrophenol | | 0.179 | 0.226 | 0.187 | 0.192 | 0.203 | 0.232 | 0.173 | 0.199 | 11.52 |
| 27) | | 2,4-Dimethylph... | | 0.267 | 0.321 | 0.249 | 0.277 | 0.302 | 0.340 | 0.239 | 0.285 | 13.18 |
| 28) | | bis(2-Chloroet... | | 0.411 | 0.424 | 0.323 | 0.409 | 0.383 | 0.486 | 0.367 | 0.401 | 12.73 |
| 29) | C | 2,4-Dichloroph... | | 0.314 | 0.312 | 0.240 | 0.311 | 0.305 | 0.365 | 0.328 | 0.311 | 12.03 |
| 30) | | 1,2,4-Trichlor... | | 0.348 | 0.392 | 0.345 | 0.328 | 0.386 | 0.317 | 0.346 | 0.352 | 7.88 |
| 31) | | Naphthalene | | 1.147 | 1.180 | 1.158 | 1.086 | 1.068 | 0.989 | 1.019 | 1.092 | 6.63 |
| 32) | | Benzoic acid | | 0.066 | 0.104 | 0.111 | 0.173 | 0.153 | 0.217 | 0.170 | 0.142 | 35.95 |
| 33) | | 4-Chloroaniline | | 0.442 | 0.416 | 0.458 | 0.427 | 0.429 | 0.385 | 0.415 | 0.425 | 5.39 |
| 34) | C | Hexachlorobuta... | | 0.241 | 0.251 | 0.240 | 0.229 | 0.244 | 0.267 | 0.233 | 0.243 | 5.20 |
| 35) | | Caprolactam | | 0.093 | 0.089 | 0.079 | 0.095 | 0.086 | 0.120 | 0.086 | 0.093 | 14.15 |
| 36) | C | 4-Chloro-3-met... | | 0.354 | 0.465 | 0.308 | 0.350 | 0.321 | 0.426 | 0.314 | 0.363 | 16.66 |
| 37) | | 2-Methylnaphth... | | 0.714 | 0.729 | 0.683 | 0.683 | 0.625 | 0.817 | 0.557 | 0.687 | 11.88 |
| 38) | | 1-Methylnaphth... | | 0.701 | 0.850 | 0.515 | 0.662 | 0.602 | 0.608 | 0.647 | 0.655 | 15.88 |

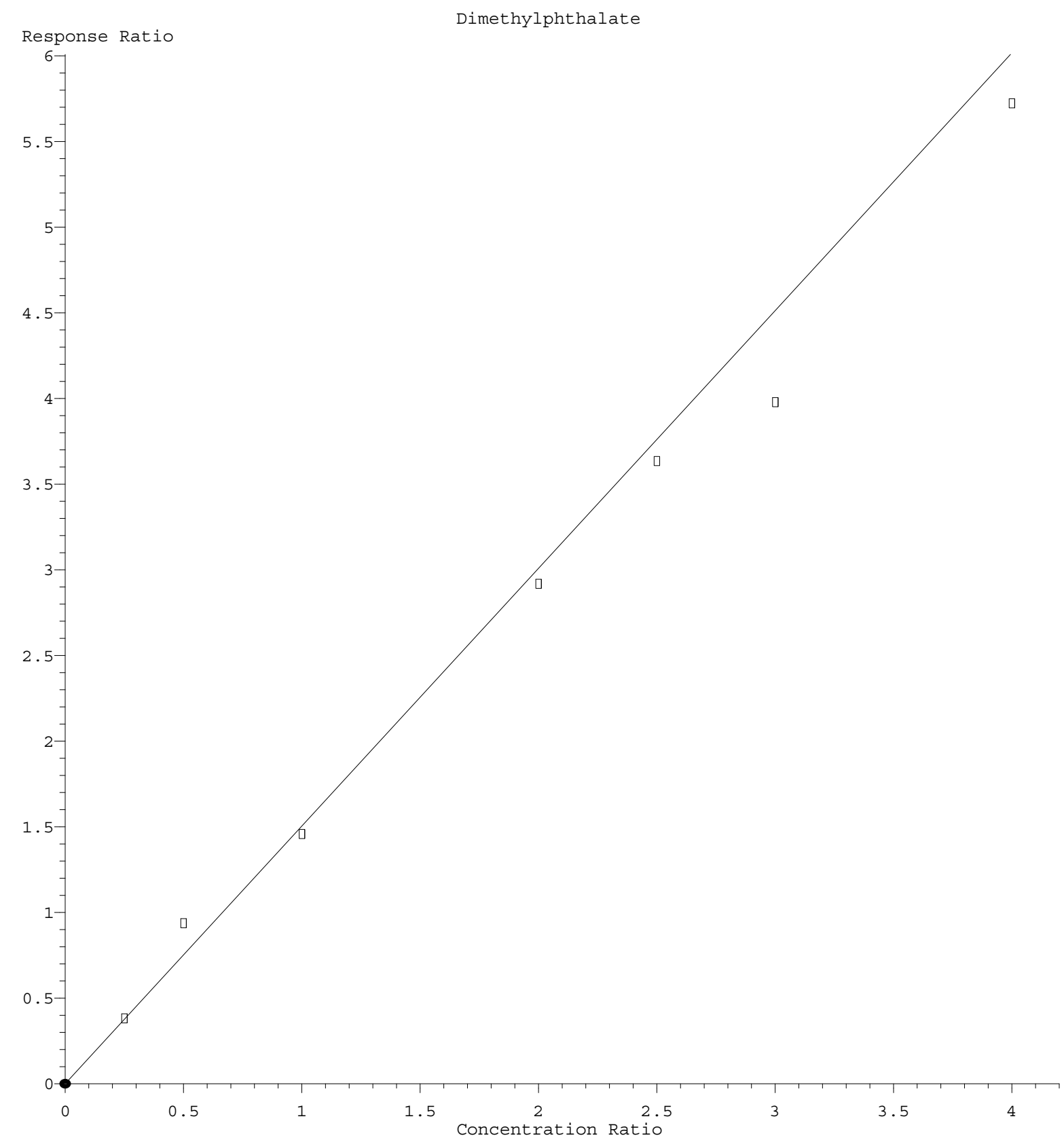
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111422.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | | 0.648 | 0.870 | 0.665 | 0.640 | 0.641 | 0.491 | 0.659 | 18.38 |
| 41) | P | Hexachlorocycl... | | 0.022 | 0.087 | 0.123 | 0.179 | 0.202 | 0.167 | 0.179 | 0.137 | 46.74 |
| 42) | S | 2,4,6-Tribromo... | 0.169 | 0.205 | 0.248 | 0.205 | 0.192 | 0.204 | 0.165 | 0.196 | 0.198 | 12.91 |
| 43) | C | 2,4,6-Trichlor... | | 0.371 | 0.414 | 0.399 | 0.409 | 0.410 | 0.394 | 0.307 | 0.386 | 9.86 |
| 44) | | 2,4,5-Trichlor... | | 0.430 | 0.439 | 0.448 | 0.475 | 0.457 | 0.358 | 0.345 | 0.422 | 11.89 |
| 45) | S | 2-Fluorobiphenyl | 1.537 | 1.539 | 1.540 | 1.883 | 1.404 | 1.430 | 1.131 | 1.057 | 1.440 | 17.98 |
| 46) | | 1,1'-Biphenyl | | 1.593 | 1.726 | 1.501 | 1.527 | 1.516 | 1.218 | 1.440 | 1.503 | 10.29 |
| 47) | | 2-Chloronaphth... | | 1.250 | 1.389 | 1.445 | 1.234 | 1.216 | 0.932 | 1.166 | 1.233 | 13.45 |
| 48) | | 2-Nitroaniline | | 0.462 | 0.480 | 0.527 | 0.498 | 0.490 | 0.378 | 0.477 | 0.473 | 9.84 |
| 49) | | Acenaphthylene | | 1.957 | 1.912 | 1.967 | 1.866 | 1.840 | 1.828 | 1.747 | 1.874 | 4.16 |
| 50) | | Dimethylphthalate | | 1.528 | 1.874 | 1.458 | 1.459 | 1.454 | 1.326 | 1.431 | 1.504 | 11.56 |
| 51) | | 2,6-Dinitrotol... | | 0.314 | 0.425 | 0.322 | 0.321 | 0.317 | 0.317 | 0.307 | 0.332 | 12.45 |
| 52) | C | Acenaphthene | | 1.476 | 1.201 | 1.206 | 1.130 | 1.113 | 1.114 | 1.093 | 1.191 | 11.21 |
| 53) | | 3-Nitroaniline | | 0.334 | 0.358 | 0.365 | 0.361 | 0.342 | 0.354 | 0.347 | 0.352 | 3.15 |
| 54) | P | 2,4-Dinitrophenol | | | 0.083 | 0.119 | 0.143 | 0.153 | 0.165 | 0.171 | 0.139 | 23.63 |
| 55) | | Dibenzofuran | | 2.453 | 1.958 | 1.796 | 1.642 | 1.640 | 1.577 | 1.570 | 1.805 | 17.59 |
| 56) | P | 4-Nitrophenol | | 0.160 | 0.160 | 0.186 | 0.197 | 0.194 | 0.207 | 0.207 | 0.187 | 10.74 |
| 57) | | 2,4-Dinitrotol... | | 0.489 | 0.417 | 0.440 | 0.415 | 0.422 | 0.408 | 0.390 | 0.426 | 7.41 |
| 58) | | Fluorene | | 1.771 | 2.102 | 1.483 | 1.345 | 1.372 | 1.321 | 1.311 | 1.529 | 19.59 |
| 59) | | 2,3,4,6-Tetrac... | | 0.346 | 0.466 | 0.359 | 0.349 | 0.367 | 0.376 | 0.356 | 0.374 | 11.17 |
| 60) | | Diethylphthalate | | 1.740 | 2.154 | 1.589 | 1.473 | 1.470 | 1.438 | 1.381 | 1.606 | 16.72 |
| 61) | | 4-Chlorophenyl... | | 0.750 | 1.005 | 0.711 | 0.636 | 0.655 | 0.622 | 0.624 | 0.715 | 19.16 |
| 62) | | 4-Nitroaniline | | 0.416 | 0.525 | 0.373 | 0.355 | 0.347 | 0.343 | 0.340 | 0.386 | 17.37 |
| 63) | | Azobenzene | | 1.541 | 2.315 | 1.644 | 1.556 | 1.535 | 1.512 | 1.473 | 1.654 | 17.92 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | | 0.181 | 0.125 | 0.136 | 0.133 | 0.189 | 0.144 | 0.151 | 17.74 |
| 66) | c | n-Nitrosodiphe... | | 0.600 | 1.196 | 0.712 | 0.680 | 0.655 | 0.894 | 0.678 | 0.774 | 26.84 |
| 67) | | 4-Bromophenyl-... | | 0.227 | 0.282 | 0.234 | 0.230 | 0.227 | 0.233 | 0.222 | 0.236 | 8.72 |
| 68) | | Hexachlorobenzene | | 0.239 | 0.293 | 0.257 | 0.249 | 0.249 | 0.283 | 0.244 | 0.259 | 7.93 |
| 69) | | Atrazine | | 0.218 | 0.216 | 0.225 | 0.212 | 0.212 | 0.263 | 0.201 | 0.221 | 9.07 |
| 70) | C | Pentachlorophenol | | | 0.040 | 0.066 | 0.080 | 0.087 | 0.094 | 0.097 | 0.077 | 27.29 |
| 71) | | Phenanthrene | | 1.180 | 1.140 | 1.165 | 1.100 | 1.104 | 1.314 | 1.067 | 1.153 | 7.04 |
| 72) | | Anthracene | | 1.168 | 1.115 | 1.140 | 1.084 | 1.088 | 1.090 | 1.047 | 1.105 | 3.63 |
| 73) | | Carbazole | | 1.016 | 1.294 | 1.012 | 0.955 | 0.916 | 1.293 | 0.913 | 1.057 | 15.76 |
| 74) | | Di-n-butylphth... | | 1.291 | 1.639 | 1.292 | 1.220 | 1.200 | 1.291 | 1.183 | 1.302 | 11.95 |
| 75) | C | Fluoranthene | | 0.960 | 1.626 | 1.245 | 1.150 | 1.167 | 1.483 | 1.272 | 19.06 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.742 | 0.535 | 0.457 | 0.641 | 0.557 | 0.333 | 0.488 | 0.536 | 24.53 |
| 78) | | Pyrene | | 1.561 | 1.619 | 1.684 | 1.952 | 1.780 | 1.434 | 1.871 | 1.700 | 10.62 |
| 79) | S | Terphenyl-d14 | 1.111 | 1.106 | 1.124 | 1.177 | 1.198 | 1.254 | 0.991 | 1.365 | 1.166 | 9.59 |
| 80) | | Butylbenzylpht... | | 0.642 | 0.661 | 0.713 | 0.689 | 0.717 | 0.546 | 0.803 | 0.682 | 11.61 |
| 81) | | Benzo(a)anthra... | | 1.446 | 1.442 | 1.470 | 1.342 | 1.372 | 1.421 | 1.456 | 1.421 | 3.32 |
| 82) | | 3,3'-Dichlorob... | | 0.455 | 0.435 | 0.453 | 0.424 | 0.391 | 0.376 | 0.362 | 0.414 | 9.01 |
| 83) | | Chrysene | | 1.369 | 1.388 | 1.413 | 1.307 | 1.279 | 1.345 | 1.380 | 1.355 | 3.50 |
| 84) | | Bis(2-ethylhex... | | 0.818 | 0.825 | 0.887 | 0.866 | 0.884 | 0.900 | 0.885 | 0.867 | 3.72 |
| 85) | c | Di-n-octyl pht... | | 1.179 | 1.192 | 1.244 | 1.173 | 1.513 | 1.266 | 1.261 | 1.261 | 9.32 |

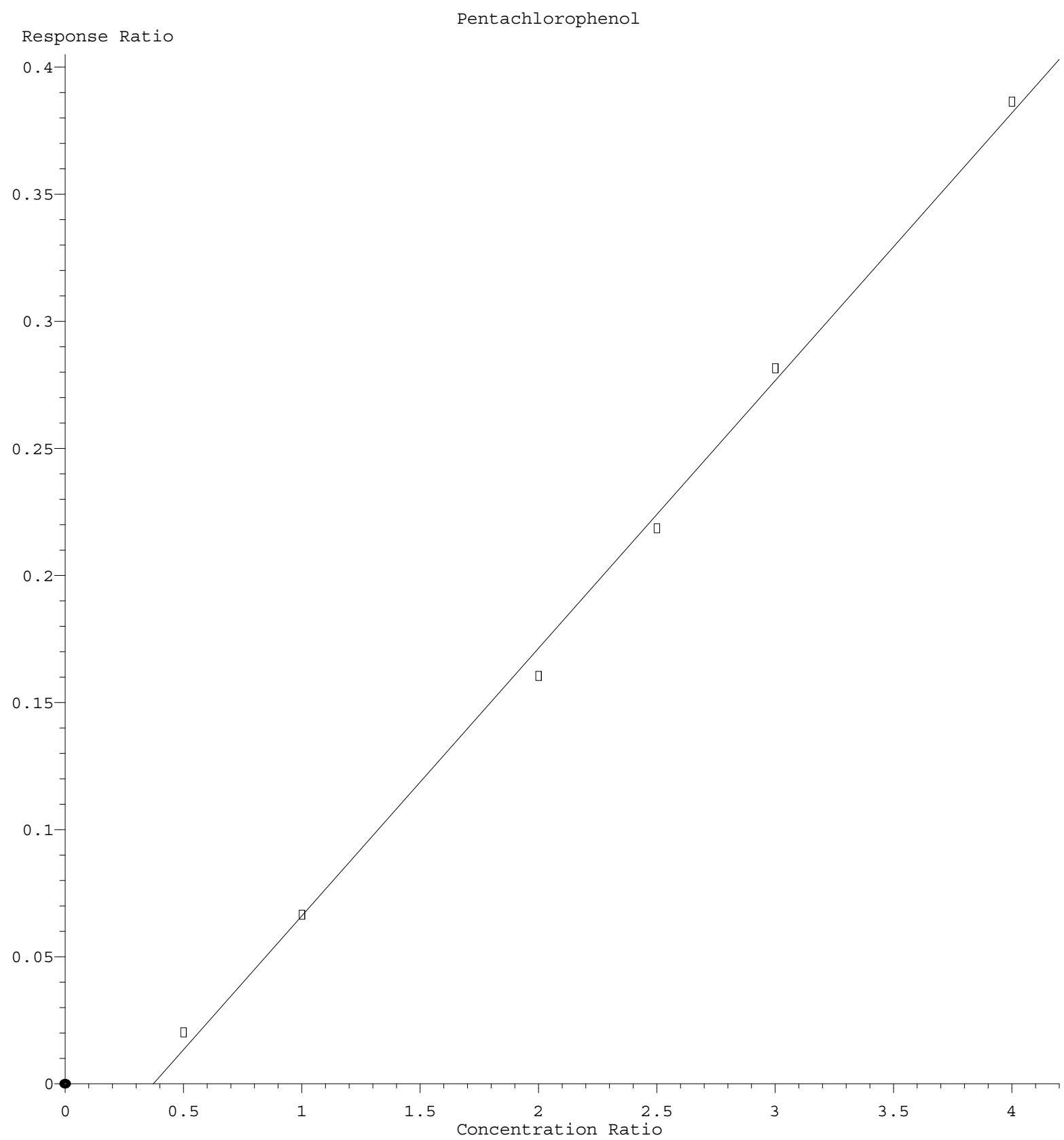
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111422.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.092 | 1.103 | 1.313 | 1.535 | 1.455 | 1.444 | 1.670 | 1.373 | 15.78 |
| 88) | | Benzo(b)fluora... | 1.466 | 1.453 | 1.485 | 1.583 | 1.505 | 1.336 | 1.430 | 1.465 | 5.13 |
| 89) | | Benzo(k)fluora... | 1.387 | 1.421 | 1.495 | 1.347 | 1.401 | 1.343 | 1.252 | 1.378 | 5.50 |
| 90) | C | Benzo(a)pyrene | 1.099 | 1.115 | 1.150 | 1.271 | 1.116 | 1.133 | 1.145 | 1.147 | 5.01 |
| 91) | | Dibenzo(a,h)an... | 0.908 | 0.906 | 1.083 | 1.242 | 1.195 | 1.173 | 1.359 | 1.124 | 15.06 |
| 92) | | Benzo(g,h,i)pe... | 0.821 | 0.868 | 1.070 | 1.589 | 1.196 | 1.199 | 1.402 | 1.164 | 23.62 |

(#) = Out of Range




Response = 1.504e+000 * Amt
RF Rel Std Dev = 11.562%  Curve Fit: Avg RF
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF111422.M
Calibration Table Last Updated: Tue Nov 15 03:52:41 2022




Response = 1.053e-001 * Amt - 3.931e-002
Coef of Det (r^2) = 0.997430  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF111422.M
Calibration Table Last Updated: Tue Nov 15 03:52:41 2022