

Method Path : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\  
 Method File : 8270-BG010522.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Fri Jan 07 06:40:51 2022  
 Response Via : Initial Calibration

## Calibration Files

5 =BG051875.D 10 =BG051876.D 20 =BG051877.D 40 =BG051878.D 50 =BG051879.D 60 =BG051880.D 80 =BG051881.D

|       | Compound              | 5              | 10    | 20    | 40    | 50    | 60    | 80    | Avg   | %RSD  |
|-------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2)    | 1,4-Dioxane           | 0.796          | 0.657 | 0.609 | 0.589 | 0.532 | 0.523 | 0.506 | 0.602 | 16.81 |
| 3)    | Pyridine              | 2.008          | 1.844 | 1.882 | 1.795 | 1.666 | 1.619 | 1.569 | 1.769 | 8.91  |
| 4)    | n-Nitrosodimet...     | 1.210          | 1.068 | 1.007 | 0.994 | 0.914 | 0.875 | 0.870 | 0.991 | 12.22 |
| 5) S  | 2-Fluorophenol        | 1.527          | 1.335 | 1.263 | 1.251 | 1.179 | 1.165 | 1.121 | 1.263 | 10.82 |
| 6)    | Aniline               | 2.703          | 2.307 | 2.232 | 2.191 | 2.062 | 1.995 | 1.958 | 2.207 | 11.48 |
| 7) S  | Phenol-d6             | 2.271          | 2.008 | 1.893 | 1.881 | 1.775 | 1.734 | 1.697 | 1.894 | 10.42 |
| 8)    | 2-Chlorophenol        | 1.584          | 1.424 | 1.314 | 1.273 | 1.199 | 1.185 | 1.131 | 1.301 | 12.11 |
| 9)    | Benzaldehyde          | 1.750          | 1.545 | 1.486 | 1.293 | 1.206 |       |       | 1.456 | 14.74 |
| 10) C | Phenol                | 2.180          | 1.945 | 1.881 | 1.868 | 1.738 | 1.726 | 1.655 | 1.856 | 9.47  |
| 11)   | bis(2-Chloroet...     | 1.784          | 1.472 | 1.429 | 1.386 | 1.309 | 1.245 | 1.205 | 1.404 | 13.74 |
| 12)   | 1,3-Dichlorobe...     | 1.874          | 1.650 | 1.545 | 1.468 | 1.406 | 1.356 | 1.301 | 1.514 | 13.03 |
| 13) C | 1,4-Dichlorobe...     | 1.823          | 1.569 | 1.546 | 1.463 | 1.405 | 1.369 | 1.324 | 1.500 | 11.22 |
| 14)   | 1,2-Dichlorobe...     | 1.883          | 1.569 | 1.500 | 1.440 | 1.358 | 1.316 | 1.236 | 1.472 | 14.50 |
| 15)   | Benzyl Alcohol        | 1.697          | 1.620 | 1.579 | 1.622 | 1.568 | 1.497 | 1.455 | 1.577 | 5.16  |
| 16)   | 2,2'-oxybis(1-...     | 2.808          | 2.385 | 2.228 | 2.137 | 1.993 | 1.921 |       | 2.245 | 14.33 |
| 17)   | 2-Methylphenol        | 1.508          | 1.271 | 1.238 | 1.210 | 1.160 | 1.144 | 1.106 | 1.234 | 10.81 |
| 18)   | Hexachloroethane      | 0.677          | 0.572 | 0.545 | 0.530 | 0.494 | 0.487 | 0.465 | 0.538 | 13.21 |
| 19) P | n-Nitroso-di-n...     | 1.746          | 1.494 | 1.504 | 1.446 | 1.337 | 1.328 | 1.261 | 1.445 | 11.15 |
| 20)   | 3+4-Methylphenols     | 2.010          | 1.733 | 1.753 | 1.748 | 1.655 | 1.597 | 1.563 | 1.723 | 8.56  |
| 21) I | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 22)   | Acetophenone          | 0.648          | 0.589 | 0.573 | 0.562 | 0.533 | 0.525 | 0.514 | 0.564 | 8.22  |
| 23) S | Nitrobenzene-d5       | 0.604          | 0.552 | 0.525 | 0.515 | 0.490 | 0.474 | 0.477 | 0.520 | 8.93  |
| 24)   | Nitrobenzene          | 0.587          | 0.502 | 0.492 | 0.495 | 0.461 | 0.453 | 0.450 | 0.491 | 9.63  |
| 25)   | Isophorone            | 0.982          | 0.921 | 0.873 | 0.874 | 0.822 | 0.810 | 0.800 | 0.869 | 7.56  |
| 26) C | 2-Nitrophenol         | 0.197          | 0.182 | 0.186 | 0.193 | 0.190 | 0.184 | 0.187 | 0.188 | 2.73  |
| 27)   | 2,4-Dimethylph...     | 0.336          | 0.285 | 0.283 | 0.288 | 0.275 | 0.269 | 0.272 | 0.287 | 7.88  |
| 28)   | bis(2-Chloroet...     | 0.563          | 0.517 | 0.501 | 0.479 | 0.452 | 0.447 | 0.441 | 0.486 | 9.14  |
| 29) C | 2,4-Dichloroph...     | 0.377          | 0.326 | 0.323 | 0.344 | 0.330 | 0.322 | 0.329 | 0.336 | 5.85  |
| 30)   | 1,2,4-Trichlor...     | 0.455          | 0.420 | 0.399 | 0.397 | 0.382 | 0.379 | 0.378 | 0.401 | 6.90  |
| 31)   | Naphthalene           | 1.242          | 1.126 | 1.097 | 1.067 | 1.037 | 1.008 | 1.001 | 1.083 | 7.73  |
| 32)   | Benzoic acid          |                | 0.176 | 0.202 | 0.235 | 0.217 | 0.229 | 0.232 | 0.215 | 10.49 |
| 33)   | 4-Chloroaniline       | 0.534          | 0.454 | 0.477 | 0.473 | 0.447 | 0.446 | 0.446 | 0.468 | 6.84  |
| 34) C | Hexachlorobuta...     | 0.342          | 0.299 | 0.280 | 0.277 | 0.264 | 0.259 | 0.258 | 0.283 | 10.58 |
| 35)   | Caprolactam           | 0.148          | 0.143 | 0.135 | 0.131 | 0.132 | 0.127 | 0.129 | 0.135 | 5.60  |
| 36) C | 4-Chloro-3-met...     | 0.446          | 0.412 | 0.406 | 0.404 | 0.389 | 0.383 | 0.390 | 0.404 | 5.26  |
| 37)   | 2-Methylnaphth...     | 0.957          | 0.850 | 0.811 | 0.808 | 0.768 | 0.743 | 0.749 | 0.812 | 9.17  |
| 38)   | 1-Methylnaphth...     | 0.902          | 0.817 | 0.780 | 0.788 | 0.739 | 0.730 | 0.720 | 0.782 | 8.07  |

|                                                 |                   |                |       |       |       |       |       |       |       |       |
|-------------------------------------------------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\ |                   |                |       |       |       |       |       |       |       |       |
| Method File : 8270-BG010522.M                   |                   |                |       |       |       |       |       |       |       |       |
| 39) I                                           | Acenaphthene-d10  | -----ISTD----- |       |       |       |       |       |       |       |       |
| 40)                                             | 1,2,4,5-Tetrac... | 0.788          | 0.722 | 0.665 | 0.676 | 0.647 | 0.619 | 0.606 | 0.675 | 9.32  |
| 41) P                                           | Hexachlorocycl... | 0.427          | 0.394 | 0.379 | 0.414 | 0.401 | 0.392 | 0.389 | 0.399 | 4.07  |
| 42) S                                           | 2,4,6-Tribromo... | 0.305          | 0.309 | 0.302 | 0.311 | 0.301 | 0.291 | 0.293 | 0.302 | 2.53  |
| 43) C                                           | 2,4,6-Trichlor... | 0.495          | 0.474 | 0.440 | 0.472 | 0.448 | 0.444 | 0.438 | 0.459 | 4.75  |
| 44)                                             | 2,4,5-Trichlor... | 0.567          | 0.508 | 0.477 | 0.510 | 0.485 | 0.466 | 0.475 | 0.498 | 6.93  |
| 45) S                                           | 2-Fluorobiphenyl  | 1.783          | 1.597 | 1.480 | 1.488 | 1.411 | 1.352 | 1.326 | 1.491 | 10.59 |
| 46)                                             | 1,1'-Biphenyl     | 1.783          | 1.588 | 1.499 | 1.509 | 1.458 | 1.375 | 1.374 | 1.512 | 9.36  |
| 47)                                             | 2-Chloronaphth... | 1.392          | 1.250 | 1.156 | 1.198 | 1.127 | 1.077 | 1.069 | 1.181 | 9.54  |
| 48)                                             | 2-Nitroaniline    | 0.488          | 0.451 | 0.454 | 0.470 | 0.447 | 0.443 | 0.445 | 0.457 | 3.60  |
| 49)                                             | Acenaphthylene    | 2.180          | 1.992 | 1.876 | 1.912 | 1.808 | 1.749 | 1.733 | 1.893 | 8.25  |
| 50)                                             | Dimethylphthalate | 1.935          | 1.770 | 1.612 | 1.644 | 1.571 | 1.499 | 1.507 | 1.648 | 9.48  |
| 51)                                             | 2,6-Dinitrotol... | 0.390          | 0.351 | 0.351 | 0.350 | 0.333 | 0.332 | 0.326 | 0.348 | 6.16  |
| 52) C                                           | Acenaphthene      | 1.374          | 1.337 | 1.198 | 1.283 | 1.221 | 1.168 | 1.185 | 1.252 | 6.38  |
| 53)                                             | 3-Nitroaniline    | 0.418          | 0.399 | 0.366 | 0.378 | 0.368 | 0.361 | 0.352 | 0.377 | 6.18  |
| 54) P                                           | 2,4-Dinitrophenol | 0.177          | 0.181 | 0.192 | 0.224 | 0.217 | 0.212 | 0.224 | 0.204 | 9.86  |
| 55)                                             | Dibenzofuran      | 2.344          | 2.113 | 1.938 | 1.974 | 1.852 | 1.793 | 1.777 | 1.970 | 10.22 |
| 56) P                                           | 4-Nitrophenol     | 0.315          | 0.299 | 0.297 | 0.303 | 0.300 | 0.292 | 0.293 | 0.300 | 2.53  |
| 57)                                             | 2,4-Dinitrotol... | 0.540          | 0.501 | 0.497 | 0.505 | 0.485 | 0.475 | 0.471 | 0.496 | 4.71  |
| 58)                                             | Fluorene          | 1.938          | 1.745 | 1.575 | 1.582 | 1.517 | 1.450 | 1.452 | 1.609 | 10.97 |
| 59)                                             | 2,3,4,6-Tetrac... | 0.545          | 0.492 | 0.481 | 0.494 | 0.477 | 0.457 | 0.457 | 0.486 | 6.14  |
| 60)                                             | Diethylphthalate  | 2.106          | 1.813 | 1.664 | 1.712 | 1.616 | 1.558 | 1.557 | 1.718 | 11.26 |
| 61)                                             | 4-Chlorophenyl... | 1.084          | 0.957 | 0.888 | 0.915 | 0.876 | 0.847 | 0.835 | 0.914 | 9.32  |
| 62)                                             | 4-Nitroaniline    | 0.463          | 0.415 | 0.404 | 0.396 | 0.386 | 0.372 | 0.375 | 0.402 | 7.75  |
| 63)                                             | Azobenzene        | 2.104          | 1.965 | 1.794 | 1.820 | 1.716 | 1.641 | 1.619 | 1.808 | 9.71  |
| 64) I                                           | Phenanthrene-d10  | -----ISTD----- |       |       |       |       |       |       |       |       |
| 65)                                             | 4,6-Dinitro-2-... | 0.122          | 0.124 | 0.126 | 0.135 | 0.126 | 0.131 | 0.130 | 0.128 | 3.44  |
| 66) c                                           | n-Nitrosodiphe... | 0.648          | 0.581 | 0.564 | 0.576 | 0.520 | 0.520 | 0.518 | 0.561 | 8.45  |
| 67)                                             | 4-Bromophenyl-... | 0.261          | 0.249 | 0.239 | 0.248 | 0.231 | 0.227 | 0.228 | 0.240 | 5.29  |
| 68)                                             | Hexachlorobenzene | 0.296          | 0.269 | 0.256 | 0.260 | 0.244 | 0.239 | 0.241 | 0.258 | 7.79  |
| 69)                                             | Atrazine          | 0.294          | 0.256 | 0.242 | 0.240 | 0.227 | 0.230 | 0.218 | 0.244 | 10.30 |
| 70) C                                           | Pentachlorophenol | 0.127          | 0.134 | 0.145 | 0.158 | 0.150 | 0.155 | 0.157 | 0.147 | 8.15  |
| 71)                                             | Phenanthrene      | 1.212          | 1.109 | 1.055 | 1.050 | 0.976 | 0.966 | 0.957 | 1.046 | 8.79  |
| 72)                                             | Anthracene        | 1.172          | 1.077 | 1.031 | 1.039 | 0.955 | 0.944 | 0.931 | 1.021 | 8.45  |
| 73)                                             | Carbazole         | 1.186          | 1.090 | 1.044 | 1.018 | 0.953 | 0.942 | 0.922 | 1.022 | 9.21  |
| 74)                                             | Di-n-butylphth... | 1.342          | 1.195 | 1.161 | 1.134 | 1.068 | 1.080 | 1.031 | 1.144 | 9.09  |
| 75) C                                           | Fluoranthene      | 1.619          | 1.481 | 1.412 | 1.339 | 1.261 | 1.257 | 1.210 | 1.368 | 10.64 |
| 76) I                                           | Chrysene-d12      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 77)                                             | Benzidine         | 0.645          | 0.530 | 0.606 | 0.607 | 0.596 | 0.549 | 0.513 | 0.578 | 8.29  |
| 78)                                             | Pyrene            | 1.590          | 1.394 | 1.351 | 1.423 | 1.304 | 1.282 | 1.263 | 1.372 | 8.18  |
| 79) S                                           | Terphenyl-d14     | 1.401          | 1.234 | 1.189 | 1.181 | 1.100 | 1.073 | 1.022 | 1.171 | 10.69 |
| 80)                                             | Butylbenzylpht... | 0.528          | 0.470 | 0.471 | 0.512 | 0.484 | 0.483 | 0.478 | 0.490 | 4.49  |
| 81)                                             | Benzo(a)anthra... | 1.584          | 1.419 | 1.368 | 1.403 | 1.308 | 1.272 | 1.255 | 1.373 | 8.18  |
| 82)                                             | 3,3'-Dichlorob... | 0.528          | 0.509 | 0.511 | 0.522 | 0.489 | 0.479 | 0.468 | 0.501 | 4.49  |
| 83)                                             | Chrysene          | 1.500          | 1.356 | 1.295 | 1.307 | 1.217 | 1.195 | 1.180 | 1.293 | 8.65  |
| 84)                                             | Bis(2-ethylhex... | 0.730          | 0.670 | 0.668 | 0.718 | 0.680 | 0.675 | 0.675 | 0.688 | 3.64  |
| 85) c                                           | Di-n-octyl pht... | 1.238          | 1.143 | 1.131 | 1.210 | 1.142 | 1.122 | 1.111 | 1.157 | 4.16  |

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(#) = Out of Range