

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN040523.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Fri Apr 28 04:17:43 2023  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN024752.D 0.2 =BN024753.D 0.4 =BN024754.D 0.8 =BN024755.D 1.6 =BN024756.D 3.2 =BN024757.D 5.0 =BN024758.D

|          | Compound              | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5.0   | Avg   | %RSD  |
|----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----    |                       |                |       |       |       |       |       |       |       |       |
| 1) I     | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2)       | 1,4-Dioxane           | 0.416          | 0.431 | 0.524 | 0.423 | 0.504 | 0.403 | 0.375 | 0.440 | 12.33 |
| 3)       | n-Nitrosodimet...     | 0.694          | 0.736 | 0.851 | 0.706 | 0.865 | 0.701 | 0.665 | 0.745 | 10.70 |
| 4) S     | 2-Fluorophenol        | 0.916          | 0.891 | 1.048 | 0.863 | 1.052 | 0.861 | 0.836 | 0.924 | 9.72  |
| 5) S     | Phenol-d6             | 1.082          | 1.096 | 1.300 | 1.078 | 1.356 | 1.132 | 1.111 | 1.165 | 9.78  |
| 6)       | bis(2-Chloroet...     | 1.133          | 1.145 | 1.363 | 1.124 | 1.364 | 1.101 | 1.041 | 1.182 | 10.87 |
|          |                       |                |       |       |       |       |       |       |       |       |
| 7) I     | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S     | Nitrobenzene-d5       | 0.296          | 0.290 | 0.361 | 0.308 | 0.360 | 0.317 | 0.324 | 0.322 | 8.91  |
| 9)       | Naphthalene           | 0.991          | 0.960 | 1.189 | 0.957 | 1.149 | 0.987 | 0.977 | 1.030 | 9.37  |
| 10)      | Hexachlorobuta...     | 0.193          | 0.184 | 0.233 | 0.184 | 0.216 | 0.183 | 0.180 | 0.196 | 10.44 |
| 11) SURR | 2-Methylnaphth...     | 0.491          | 0.477 | 0.605 | 0.511 | 0.595 | 0.516 | 0.512 | 0.530 | 9.47  |
| 12)      | 2-Methylnaphth...     | 0.664          | 0.654 | 0.815 | 0.688 | 0.805 | 0.698 | 0.690 | 0.716 | 9.21  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 13) I    | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S    | 2,4,6-Tribromo...     | 0.152          | 0.150 | 0.191 | 0.159 | 0.209 | 0.195 | 0.204 | 0.180 | 14.11 |
| 15) S    | 2-Fluorobiphenyl      | 1.450          | 1.479 | 1.816 | 1.418 | 1.676 | 1.434 | 1.422 | 1.528 | 10.20 |
| 16)      | Acenaphthylene        | 1.432          | 1.463 | 1.863 | 1.504 | 1.948 | 1.755 | 1.805 | 1.681 | 12.52 |
| 17)      | Acenaphthene          | 1.067          | 1.040 | 1.319 | 1.043 | 1.270 | 1.114 | 1.110 | 1.138 | 9.87  |
| 18)      | Fluorene              | 1.389          | 1.439 | 1.825 | 1.457 | 1.781 | 1.538 | 1.500 | 1.562 | 11.02 |
|          |                       |                |       |       |       |       |       |       |       |       |
| 19) I    | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)      | 4,6-Dinitro-2-...     | 0.035          | 0.047 | 0.046 | 0.068 | 0.071 |       | 0.053 |       | 29.60 |
| 21)      | 4-Bromophenyl-...     | 0.225          | 0.213 | 0.265 | 0.215 | 0.269 | 0.229 | 0.233 | 0.236 | 9.55  |
| 22)      | Hexachlorobenzene     | 0.249          | 0.247 | 0.308 | 0.249 | 0.306 | 0.257 | 0.253 | 0.267 | 10.30 |
| 23)      | Atrazine              | 0.140          | 0.138 | 0.172 | 0.145 | 0.186 | 0.168 | 0.175 | 0.161 | 11.98 |
| 24)      | Pentachlorophenol     | 0.036          | 0.056 | 0.061 | 0.105 | 0.108 |       | 0.073 |       | 43.63 |
| 25)      | Phenanthrene          | 1.098          | 1.062 | 1.316 | 1.078 | 1.324 | 1.124 | 1.127 | 1.161 | 9.54  |
| 26)      | Anthracene            | 0.884          | 0.872 | 1.094 | 0.929 | 1.183 | 1.046 | 1.081 | 1.013 | 11.73 |
| 27) SURR | Fluoranthene-d10      | 0.842          | 0.817 | 1.012 | 0.835 | 1.037 | 0.901 | 0.907 | 0.907 | 9.60  |
| 28)      | Fluoranthene          | 1.247          | 1.174 | 1.465 | 1.212 | 1.521 | 1.312 | 1.299 | 1.318 | 9.79  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 29) I    | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)      | Pyrene                | 1.357          | 1.315 | 1.679 | 1.281 | 1.581 | 1.366 | 1.373 | 1.422 | 10.45 |
| 31) S    | Terphenyl-d14         | 0.801          | 0.842 | 1.089 | 0.821 | 1.034 | 0.882 | 0.878 | 0.907 | 12.21 |
| 32)      | Benzo(a)anthra...     | 1.406          | 1.257 | 1.582 | 1.190 | 1.477 | 1.260 | 1.295 | 1.352 | 10.39 |
| 33)      | Chrysene              | 1.542          | 1.351 | 1.649 | 1.274 | 1.521 | 1.299 | 1.282 | 1.417 | 10.69 |
| 34)      | Bis(2-ethylhex...     | 0.960          | 0.680 | 0.761 | 0.571 | 0.735 | 0.669 | 0.710 | 0.727 | 16.43 |
|          |                       |                |       |       |       |       |       |       |       |       |
| 35) I    | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.597 | 1.600 | 1.988 | 1.633 | 1.987 | 1.737 | 1.733 | 1.754 | 9.67  |
| 37)   | Benzo(b)fluora... | 1.449 | 1.453 | 1.716 | 1.395 | 1.661 | 1.477 | 1.468 | 1.517 | 7.99  |
| 38)   | Benzo(k)fluora... | 1.397 | 1.331 | 1.734 | 1.399 | 1.675 | 1.481 | 1.508 | 1.504 | 9.98  |
| 39) C | Benzo(a)pyrene    | 1.358 | 1.325 | 1.638 | 1.339 | 1.650 | 1.415 | 1.430 | 1.451 | 9.48  |
| 40)   | Dibenzo(a,h)an... | 1.211 | 1.229 | 1.563 | 1.301 | 1.584 | 1.385 | 1.389 | 1.380 | 10.80 |
| 41)   | Benzo(g,h,i)pe... | 1.394 | 1.373 | 1.696 | 1.396 | 1.682 | 1.466 | 1.460 | 1.495 | 9.16  |

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(#) = Out of Range