

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091719\  
 Data File : BF117109.D  
 Acq On : 17 Sep 2019 16:24  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 18 12:00:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.536 | 0.414 | 22.8  | 83    | 0.00     |
| 3    | Pyridine                    | 1.467 | 1.047 | 28.6# | 74    | 0.02     |
| 4    | n-Nitrosodimethylamine      | 0.504 | 0.346 | 31.3# | 74    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.281 | 1.130 | 11.8  | 92    | 0.00     |
| 6    | Aniline                     | 2.132 | 1.999 | 6.2   | 99    | 0.00     |
| 7 S  | Phenol-d6                   | 1.656 | 1.565 | 5.5   | 100   | 0.01     |
| 8    | 2-Chlorophenol              | 1.382 | 1.313 | 5.0   | 100   | 0.00     |
| 9    | Benzaldehyde                | 0.904 | 0.875 | 3.2   | 103   | 0.00     |
| 10 C | Phenol                      | 1.825 | 1.703 | 6.7   | 98    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.341 | 1.280 | 4.5   | 103   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.551 | 1.482 | 4.4   | 101   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.583 | 1.514 | 4.4   | 100   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.473 | 1.402 | 4.8   | 100   | 0.00     |
| 15   | Benzyl Alcohol              | 1.270 | 1.235 | 2.8   | 101   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.325 | 1.249 | 5.7   | 100   | 0.00     |
| 17   | 2-Methylphenol              | 1.158 | 1.089 | 6.0   | 101   | 0.00     |
| 18   | Hexachloroethane            | 0.609 | 0.580 | 4.8   | 101   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.008 | 0.996 | 1.2   | 106   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.443 | 1.385 | 4.0   | 102   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 22   | Acetophenone                | 0.508 | 0.479 | 5.7   | 104   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.381 | 0.363 | 4.7   | 102   | 0.00     |
| 24   | Nitrobenzene                | 0.376 | 0.353 | 6.1   | 102   | 0.00     |
| 25   | Isophorone                  | 0.674 | 0.647 | 4.0   | 107   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.161 | 0.166 | -3.1  | 110   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.256 | 0.242 | 5.5   | 103   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.415 | 0.396 | 4.6   | 106   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.268 | 0.258 | 3.7   | 102   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.290 | 0.274 | 5.5   | 103   | 0.00     |
| 31   | Naphthalene                 | 0.962 | 0.910 | 5.4   | 102   | 0.00     |
| 32   | Benzoic acid                | 0.180 | 0.174 | 3.3   | 108   | 0.01     |
| 33   | 4-Chloroaniline             | 0.427 | 0.401 | 6.1   | 101   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.164 | 0.162 | 1.2   | 106   | 0.00     |
| 35   | Caprolactam                 | 0.091 | 0.088 | 3.3   | 106   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.313 | 0.302 | 3.5   | 106   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.648 | 0.630 | 2.8   | 106   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.607 | 0.589 | 3.0   | 106   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.516 | 0.488 | 5.4   | 106   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.194 | 0.234 | -20.6 | 141   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.167 | 0.166 | 0.6   | 110   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.350 | 0.332 | 5.1   | 106   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.374 | 0.343 | 8.3   | 104   | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.279 | 1.224 | 4.3   | 107   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.569 | 1.496 | 4.7   | 107   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.238 | 1.165 | 5.9   | 106   | 0.00     |
| 48   | 2-Nitroaniline             | 0.397 | 0.388 | 2.3   | 111   | 0.00     |
| 49   | Acenaphthylene             | 1.855 | 1.769 | 4.6   | 106   | 0.00     |
| 50   | Dimethylphthalate          | 1.416 | 1.369 | 3.3   | 108   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.288 | 0.289 | -0.3  | 112   | 0.00     |
| 52 C | Acenaphthene               | 1.099 | 1.026 | 6.6   | 104   | 0.00     |
| 53   | 3-Nitroaniline             | 0.364 | 0.348 | 4.4   | 106   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.102 | 0.113 | -10.8 | 130   | 0.00     |
| 55   | Dibenzofuran               | 1.622 | 1.543 | 4.9   | 106   | 0.00     |
| 56 P | 4-Nitrophenol              | 0.236 | 0.250 | -5.9  | 116   | 0.01     |
| 57   | 2,4-Dinitrotoluene         | 0.374 | 0.390 | -4.3  | 114   | 0.00     |
| 58   | Fluorene                   | 1.307 | 1.264 | 3.3   | 108   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.287 | 0.268 | 6.6   | 102   | 0.00     |
| 60   | Diethylphthalate           | 1.393 | 1.369 | 1.7   | 109   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.565 | 0.568 | -0.5  | 110   | 0.00     |
| 62   | 4-Nitroaniline             | 0.378 | 0.365 | 3.4   | 106   | 0.00     |
| 63   | Azobenzene                 | 1.423 | 1.348 | 5.3   | 106   | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.084 | 0.090 | -7.1  | 121   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.691 | 0.663 | 4.1   | 108   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.204 | 0.198 | 2.9   | 108   | 0.00     |
| 68   | Hexachlorobenzene          | 0.223 | 0.213 | 4.5   | 108   | 0.00     |
| 69   | Atrazine                   | 0.170 | 0.173 | -1.8  | 104   | 0.00     |
| 70 C | Pentachlorophenol          | 0.105 | 0.094 | 10.5  | 99    | 0.00     |
| 71   | Phenanthrene               | 1.136 | 1.075 | 5.4   | 105   | 0.00     |
| 72   | Anthracene                 | 1.160 | 1.110 | 4.3   | 105   | 0.00     |
| 73   | Carbazole                  | 1.101 | 1.033 | 6.2   | 102   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.310 | 1.320 | -0.8  | 110   | 0.00     |
| 75 C | Fluoranthene               | 1.167 | 1.095 | 6.2   | 102   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 77   | Benzidine                  | 0.644 | 0.575 | 10.7  | 88    | 0.00     |
| 78   | Pyrene                     | 1.678 | 1.607 | 4.2   | 101   | 0.00     |
| 79 S | Terphenyl-d14              | 1.070 | 1.062 | 0.7   | 104   | 0.00     |
| 80   | Butylbenzylphthalate       | 0.793 | 0.808 | -1.9  | 106   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.336 | 1.276 | 4.5   | 97    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.431 | 0.408 | 5.3   | 95    | 0.00     |
| 83   | Chrysene                   | 1.303 | 1.229 | 5.7   | 96    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 1.022 | 1.088 | -6.5  | 111   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.609 | 1.723 | -7.1  | 108   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 0.951 | 0.786 | 17.4  | 93    | 0.00     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 82    | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.211 | 1.225 | -1.2 | 92    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.148 | 1.160 | -1.0 | 85    | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.063 | 1.048 | 1.4  | 87    | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 0.847 | 0.829 | 2.1  | 95    | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 0.844 | 0.783 | 7.2  | 92    | 0.01     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0