

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\  
 Data File : BF114221.D  
 Acq On : 13 May 2019 11:40  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 13 14:29:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 10 15:56:46 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   | 103   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.683 | 0.616 | 9.8   | 91    | 0.00     |
| 3    | Pyridine                    | 1.882 | 1.737 | 7.7   | 97    | 0.01     |
| 4    | n-Nitrosodimethylamine      | 0.908 | 0.814 | 10.4  | 92    | 0.01     |
| 5 S  | 2-Fluorophenol              | 1.243 | 1.150 | 7.5   | 93    | 0.00     |
| 6    | Aniline                     | 2.123 | 2.054 | 3.3   | 98    | 0.00     |
| 7 S  | Phenol-d6                   | 1.470 | 1.466 | 0.3   | 103   | 0.01     |
| 8    | 2-Chlorophenol              | 1.327 | 1.342 | -1.1  | 103   | 0.00     |
| 9    | Benzaldehyde                | 1.029 | 1.012 | 1.7   | 95    | 0.00     |
| 10 C | Phenol                      | 1.729 | 1.644 | 4.9   | 96    | 0.01     |
| 11   | bis(2-Chloroethyl)ether     | 1.313 | 1.394 | -6.2  | 109   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.489 | 1.478 | 0.7   | 103   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.501 | 1.488 | 0.9   | 102   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.371 | 1.355 | 1.2   | 100   | 0.00     |
| 15   | Benzyl Alcohol              | 1.146 | 1.155 | -0.8  | 102   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.545 | 2.573 | -1.1  | 103   | 0.00     |
| 17   | 2-Methylphenol              | 1.090 | 1.087 | 0.3   | 103   | 0.00     |
| 18   | Hexachloroethane            | 0.563 | 0.571 | -1.4  | 103   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.932 | 0.931 | 0.1   | 105   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.259 | 1.255 | 0.3   | 102   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 22   | Acetophenone                | 0.443 | 0.439 | 0.9   | 104   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.356 | 0.358 | -0.6  | 105   | 0.00     |
| 24   | Nitrobenzene                | 0.363 | 0.368 | -1.4  | 105   | 0.00     |
| 25   | Isophorone                  | 0.661 | 0.671 | -1.5  | 111   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.176 | 0.187 | -6.3  | 113   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.277 | 0.277 | 0.0   | 106   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.429 | 0.447 | -4.2  | 111   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.275 | 0.278 | -1.1  | 105   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.313 | 0.310 | 1.0   | 104   | 0.00     |
| 31   | Naphthalene                 | 0.934 | 0.932 | 0.2   | 103   | 0.00     |
| 32   | Benzoic acid                | 0.181 | 0.188 | -3.9  | 111   | 0.01     |
| 33   | 4-Chloroaniline             | 0.426 | 0.441 | -3.5  | 107   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.178 | 0.177 | 0.6   | 103   | 0.00     |
| 35   | Caprolactam                 | 0.090 | 0.101 | -12.2 | 114   | 0.02     |
| 36 C | 4-Chloro-3-methylphenol     | 0.277 | 0.292 | -5.4  | 108   | 0.01     |
| 37   | 2-Methylnaphthalene         | 0.603 | 0.621 | -3.0  | 105   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.568 | 0.581 | -2.3  | 104   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.606 | 0.603 | 0.5   | 106   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.255 | 0.216 | 15.3  | 89    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.207 | 0.199 | 3.9   | 108   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.417 | 0.423 | -1.4  | 108   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.427 | 0.436 | -2.1  | 109   | 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           | 1.322 | 1.204 | 8.9    | 102   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.616 | 1.577 | 2.4    | 106   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.300 | 1.263 | 2.8    | 105   | 0.00     |
| 48   | 2-Nitroaniline             | 0.461 | 0.478 | -3.7   | 112   | 0.00     |
| 49   | Acenaphthylene             | 1.978 | 1.944 | 1.7    | 106   | 0.00     |
| 50   | Dimethylphthalate          | 1.468 | 1.523 | -3.7   | 113   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.326 | 0.339 | -4.0   | 113   | 0.00     |
| 52 C | Acenaphthene               | 1.214 | 1.152 | 5.1    | 104   | 0.00     |
| 53   | 3-Nitroaniline             | 0.404 | 0.419 | -3.7   | 112   | 0.01     |
| 54 P | 2,4-Dinitrophenol          | 0.131 | 0.146 | -11.5  | 117   | 0.01     |
| 55   | Dibenzofuran               | 1.780 | 1.689 | 5.1    | 105   | 0.00     |
| 56 P | 4-Nitrophenol              | 0.286 | 0.244 | 14.7   | 96    | 0.02     |
| 57   | 2,4-Dinitrotoluene         | 0.442 | 0.438 | 0.9    | 110   | 0.01     |
| 58   | Fluorene                   | 1.375 | 1.331 | 3.2    | 108   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.369 | 0.350 | 5.1    | 105   | 0.01     |
| 60   | Diethylphthalate           | 1.492 | 1.479 | 0.9    | 112   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.675 | 0.659 | 2.4    | 108   | 0.00     |
| 62   | 4-Nitroaniline             | 0.425 | 0.433 | -1.9   | 116   | 0.01     |
| 63   | Azobenzene                 | 1.444 | 1.443 | 0.1    | 112   | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 111   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.096 | 0.103 | -7.3   | 116   | 0.01     |
| 66 c | n-Nitrosodiphenylamine     | 0.607 | 0.613 | -1.0   | 108   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.220 | 0.223 | -1.4   | 111   | 0.00     |
| 68   | Hexachlorobenzene          | 0.244 | 0.242 | 0.8    | 108   | 0.00     |
| 69   | Atrazine                   | 0.189 | 0.201 | -6.3   | 117   | 0.00     |
| 70 C | Pentachlorophenol          | 0.115 | 0.105 | 8.7    | 96    | 0.00     |
| 71   | Phenanthrene               | 0.973 | 0.954 | 2.0    | 106   | 0.00     |
| 72   | Anthracene                 | 0.977 | 0.989 | -1.2   | 108   | 0.00     |
| 73   | Carbazole                  | 0.932 | 0.941 | -1.0   | 109   | 0.01     |
| 74   | Di-n-butylphthalate        | 1.074 | 1.154 | -7.4   | 115   | 0.00     |
| 75 C | Fluoranthene               | 1.048 | 1.037 | 1.0    | 107   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 108   | 0.00     |
| 77   | Benzidine                  | 0.898 | 0.802 | 10.7   | 99    | 0.00     |
| 78   | Pyrene                     | 1.609 | 1.534 | 4.7    | 107   | 0.00     |
| 79 S | Terphenyl-d14              | 0.970 | 0.927 | 4.4    | 107   | 0.00     |
| 80   | Butylbenzylphthalate       | 0.677 | 0.771 | -13.9  | 123   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.294 | 1.362 | -5.3   | 111   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.502 | 0.551 | -9.8   | 112   | 0.00     |
| 83   | Chrysene                   | 1.268 | 1.267 | 0.1    | 106   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.886 | 1.052 | -18.7  | 127   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.436 | 1.751 | -21.9# | 127   | -0.01    |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.121 | 1.192 | -6.3   | 118   | 0.02     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 119   | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.281 | 1.376 | -7.4 | 128   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.177 | 1.075 | 8.7  | 103   | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.128 | 1.145 | -1.5 | 119   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 0.937 | 0.931 | 0.6  | 121   | 0.02     |
| 92   | Benzo(q,h,i)perylene   | 0.939 | 0.888 | 5.4  | 117   | 0.02     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 1