

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF072816\  
 Data File : BF089341.D  
 Acq On : 28 Jul 2016 2:14  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 28 07:11:27 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 27 17:12:17 2016  
 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.647 | 0.553 | 14.5  | 109   | 0.00     |
| 3    | Pyridine                    | 1.226 | 1.321 | -7.7  | 109   | -0.01    |
| 4    | n-Nitrosodimethylamine      | 0.442 | 0.490 | -10.9 | 111   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.253 | 1.300 | -3.8  | 109   | 0.00     |
| 6    | Aniline                     | 1.787 | 1.938 | -8.4  | 110   | 0.00     |
| 7 S  | Phenol-d6                   | 1.655 | 1.733 | -4.7  | 108   | 0.00     |
| 8    | 2-Chlorophenol              | 1.417 | 1.549 | -9.3  | 109   | 0.00     |
| 9    | Benzaldehyde                | 0.808 | 0.816 | -1.0  | 107   | 0.00     |
| 10 C | Phenol                      | 1.827 | 1.968 | -7.7  | 107   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.552 | 1.587 | -2.3  | 110   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.482 | 1.548 | -4.5  | 107   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.636 | 1.701 | -4.0  | 107   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.532 | 1.511 | 1.4   | 110   | 0.00     |
| 15   | Benzyl Alcohol              | 1.027 | 1.087 | -5.8  | 111   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.693 | 1.752 | -3.5  | 107   | 0.00     |
| 17   | 2-Methylphenol              | 1.095 | 1.117 | -2.0  | 109   | 0.01     |
| 18   | Hexachloroethane            | 0.627 | 0.634 | -1.1  | 107   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.998 | 1.092 | -9.4  | 111   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.406 | 1.526 | -8.5  | 111   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 22   | Acetophenone                | 0.476 | 0.498 | -4.6  | 106   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.339 | 0.342 | -0.9  | 104   | 0.00     |
| 24   | Nitrobenzene                | 0.386 | 0.398 | -3.1  | 112   | 0.00     |
| 25   | Isophorone                  | 0.683 | 0.684 | -0.1  | 106   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.172 | 0.170 | 1.2   | 107   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.275 | 0.284 | -3.3  | 110   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.378 | 0.399 | -5.6  | 109   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.250 | 0.279 | -11.6 | 113   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.286 | 0.294 | -2.8  | 109   | 0.00     |
| 31   | Naphthalene                 | 0.990 | 0.942 | 4.8   | 105   | 0.00     |
| 32   | Benzoic acid                | 0.191 | 0.188 | 1.6   | 104   | 0.01     |
| 33   | 4-Chloroaniline             | 0.377 | 0.373 | 1.1   | 111   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.164 | 0.174 | -6.1  | 109   | 0.00     |
| 35   | Caprolactam                 | 0.076 | 0.080 | -5.3  | 111   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.297 | 0.328 | -10.4 | 109   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.597 | 0.607 | -1.7  | 109   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.700 | 0.676 | 3.4   | 108   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.158 | 0.167 | -5.7  | 105   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.166 | 0.177 | -6.6  | 110   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.333 | 0.348 | -4.5  | 107   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.421 | 0.417 | 1.0   | 106   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.363 | 1.440 | -5.6  | 108   | 0.00     |

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

|      | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.703 | 1.588 | 6.8   | 106   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.279 | 1.294 | -1.2  | 110   | 0.00     |
| 47   | 2-Nitroaniline             | 0.379 | 0.384 | -1.3  | 107   | 0.00     |
| 48   | Acenaphthylene             | 2.014 | 2.111 | -4.8  | 107   | 0.00     |
| 49   | Dimethylphthalate          | 1.522 | 1.593 | -4.7  | 109   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.313 | 0.346 | -10.5 | 109   | 0.00     |
| 51 C | Acenaphthene               | 1.176 | 1.236 | -5.1  | 109   | 0.00     |
| 52   | 3-Nitroaniline             | 0.330 | 0.352 | -6.7  | 112   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.104 | 0.095 | 8.7   | 105   | 0.00     |
| 54   | Dibenzofuran               | 1.603 | 1.678 | -4.7  | 112   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.136 | 0.140 | -2.9  | 107   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.412 | 0.431 | -4.6  | 107   | 0.00     |
| 57   | Fluorene                   | 1.399 | 1.423 | -1.7  | 106   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.281 | 0.307 | -9.3  | 105   | 0.00     |
| 59   | Diethylphthalate           | 1.543 | 1.491 | 3.4   | 109   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.642 | 0.618 | 3.7   | 107   | 0.00     |
| 61   | 4-Nitroaniline             | 0.340 | 0.364 | -7.1  | 111   | 0.01     |
| 62   | Azobenzene                 | 1.589 | 1.523 | 4.2   | 108   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.113 | 0.126 | -11.5 | 108   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.624 | 0.622 | 0.3   | 109   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.191 | 0.208 | -8.9  | 109   | 0.00     |
| 67   | Hexachlorobenzene          | 0.196 | 0.189 | 3.6   | 106   | 0.00     |
| 68   | Atrazine                   | 0.192 | 0.207 | -7.8  | 106   | 0.00     |
| 69 C | Pentachlorophenol          | 0.082 | 0.086 | -4.9  | 113   | 0.00     |
| 70   | Phenanthrene               | 1.031 | 1.064 | -3.2  | 106   | 0.00     |
| 71   | Anthracene                 | 1.147 | 1.116 | 2.7   | 108   | 0.00     |
| 72   | Carbazole                  | 0.965 | 0.992 | -2.8  | 111   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.295 | 1.239 | 4.3   | 106   | 0.00     |
| 74 C | Fluoranthene               | 1.085 | 1.148 | -5.8  | 106   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 76   | Benzidine                  | 0.739 | 0.703 | 4.9   | 104   | 0.00     |
| 77   | Pyrene                     | 1.516 | 1.454 | 4.1   | 107   | 0.01     |
| 78 S | Terphenyl-d14              | 0.855 | 0.838 | 2.0   | 111   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.689 | 0.738 | -7.1  | 107   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.129 | 1.098 | 2.7   | 106   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.406 | 0.424 | -4.4  | 113   | 0.00     |
| 82   | Chrysene                   | 1.201 | 1.133 | 5.7   | 109   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.996 | 0.956 | 4.0   | 105   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.554 | 1.542 | 0.8   | 110   | 0.01     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.854 | 0.819 | 4.1   | 111   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.242 | 1.100 | 11.4  | 109   | 0.00     |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.142 | 1.256 | -10.0 | 112   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.114 | 1.092 | 2.0   | 109   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.878 | 0.879 | -0.1  | 112   | 0.01     |
| 91   | Benzo(g,h,i)perylene   | 0.863 | 0.863 | 0.0   | 110   | 0.01     |

(#) = Out of Range

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