

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101316\  
 Data File : BF090554.D  
 Acq On : 13 Oct 2016 21:08  
 Operator : UM/SJ  
 Sample : SSTDICC080  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC080

Manual Integrations  
 APPROVED

sohil  
 10/14/2016 6:38:41 PM

Quant Time: Oct 14 01:28:10 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 14 01:18:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.92  | 152  | 204612   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.21  | 136  | 899629   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.97  | 164  | 457777   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.46 | 188  | 729098   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.10 | 240  | 577860   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.56 | 264  | 323431   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.53  | 112 | 1796486 | 139.18 | ng | 0.00 |
| 7) Phenol-d6             | 6.57  | 99  | 2559654 | 153.59 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 7.50  | 82  | 2484689 | 148.00 | ng | 0.01 |
| 41) 2,4,6-Tribromophenol | 10.76 | 330 | 639386  | 144.56 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.30  | 172 | 4020143 | 148.47 | ng | 0.01 |
| 78) Terphenyl-d14        | 13.05 | 244 | 3347584 | 141.21 | ng | 0.00 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.57 | 88  | 503282  | 77.94 | ng | 99     |
| 3) Pyridine                    | 3.32 | 79  | 1222875 | 70.35 | ng | 94     |
| 4) n-Nitrosodimethylamine      | 3.29 | 42  | 456040  | 79.75 | ng | 95     |
| 6) Aniline                     | 6.60 | 93  | 1633277 | 77.49 | ng | 95     |
| 8) 2-Chlorophenol              | 6.71 | 128 | 1126612 | 79.89 | ng | 89     |
| 9) Benzaldehyde                | 6.47 | 77  | 683176  | 64.50 | ng | 98     |
| 10) Phenol                     | 6.58 | 94  | 1398818 | 74.83 | ng | 89     |
| 11) bis(2-Chloroethyl)ether    | 6.67 | 93  | 1194375 | 83.33 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 6.86 | 146 | 1123127 | 75.22 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.94 | 146 | 1234356 | 79.27 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.09 | 146 | 1052410 | 74.84 | ng | 96     |
| 15) Benzyl Alcohol             | 7.07 | 79  | 887321  | 69.39 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.21 | 45  | 1698137 | 81.34 | ng | 99     |
| 17) 2-Methylphenol             | 7.18 | 107 | 910108  | 78.73 | ng | 99     |
| 18) Hexachloroethane           | 7.43 | 117 | 464320  | 79.96 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 7.35 | 70  | 894698  | 81.58 | ng | # 90   |
| 20) 3+4-Methylphenols          | 7.34 | 107 | 1022174 | 70.97 | ng | # 87   |
| 22) Acetophenone               | 7.34 | 105 | 1478993 | 74.38 | ng | # 93   |
| 24) Nitrobenzene               | 7.51 | 77  | 1317012 | 74.92 | ng | 95     |
| 25) Isophorone                 | 7.75 | 82  | 2317932 | 76.66 | ng | 97     |
| 26) 2-Nitrophenol              | 7.82 | 139 | 596181  | 74.47 | ng | 93     |
| 27) 2,4-Dimethylphenol         | 7.87 | 122 | 995332  | 73.17 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.96 | 93  | 1315375 | 69.68 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.07 | 162 | 880782  | 77.52 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 8.15 | 180 | 995055  | 75.42 | ng | 98     |
| 31) Naphthalene                | 8.23 | 128 | 3224738 | 71.40 | ng | 97     |
| 32) Benzoic acid               | 8.04 | 122 | 663463  | 64.10 | ng | 97     |
| 33) 4-Chloroaniline            | 8.29 | 127 | 1353543 | 71.63 | ng | 93     |
| 34) Hexachlorobutadiene        | 8.35 | 225 | 517328  | 70.45 | ng | 99     |
| 35) Caprolactam                | 8.68 | 113 | 249106  | 67.68 | ng | 91     |
| 36) 4-Chloro-3-methylphenol    | 8.77 | 107 | 948403  | 71.24 | ng | 90     |
| 37) 2-Methylnaphthalene        | 8.92 | 142 | 1955999 | 65.18 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.09 | 216 | 928504  | 73.68 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 9.08 | 237 | 495521  | 79.96 | ng | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.21  | 196  | 586078   | 69.14 | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.25  | 196  | 664988   | 79.10 | nq    | # 88     |
| 45) 1,1'-Biphenyl              | 9.39  | 154  | 2494490  | 72.04 | nq    | 97       |
| 46) 2-Chloronaphthalene        | 9.42  | 162  | 1989029  | 77.09 | nq    | 93       |
| 47) 2-Nitroaniline             | 9.51  | 65   | 752868   | 80.82 | nq    | 92       |
| 48) Acenaphthylene             | 9.83  | 152  | 2947335  | 70.26 | nq    | 97       |
| 49) Dimethylphthalate          | 9.70  | 163  | 2077484  | 68.30 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 498874   | 73.20 | nq    | # 66     |
| 51) Acenaphthene               | 10.01 | 154  | 1969412  | 70.39 | nq    | 99       |
| 52) 3-Nitroaniline             | 9.94  | 138  | 636613   | 75.47 | nq    | 93       |
| 53) 2,4-Dinitrophenol          | 10.03 | 184  | 282787   | 79.17 | nq    | # 82     |
| 54) Dibenzofuran               | 10.18 | 168  | 2554186  | 68.44 | nq    | 93       |
| 55) 4-Nitrophenol              | 10.10 | 139  | 420761   | 67.94 | nq    | 91       |
| 56) 2,4-Dinitrotoluene         | 10.17 | 165  | 733906   | 80.98 | nq    | 95       |
| 57) Fluorene                   | 10.52 | 166  | 2094224  | 68.94 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.29 | 232  | 505626   | 71.30 | nq    | 96       |
| 59) Diethylphthalate           | 10.39 | 149  | 2142364  | 68.71 | nq    | 95       |
| 60) 4-Chlorophenyl-phenylether | 10.51 | 204  | 999498   | 71.67 | nq    | 93       |
| 61) 4-Nitroaniline             | 10.57 | 138  | 641068   | 76.01 | nq    | 92       |
| 62) Azobenzene                 | 10.67 | 77   | 2542049  | 74.53 | nq    | 96       |
| 64) 4,6-Dinitro-2-methylphenol | 10.58 | 198  | 412557   | 84.95 | nq    | 98       |
| 65) n-Nitrosodiphenylamine     | 10.63 | 169  | 1774316  | 74.59 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 11.00 | 248  | 608877   | 76.09 | nq    | # 86     |
| 67) Hexachlorobenzene          | 11.07 | 284  | 699299   | 79.40 | nq    | # 77     |
| 68) Atrazine                   | 11.16 | 200  | 484135   | 66.48 | nq    | 99       |
| 69) Pentachlorophenol          | 11.26 | 266  | 385291   | 74.29 | nq    | 99       |
| 70) Phenanthrene               | 11.48 | 178  | 2758000  | 69.44 | nq    | 97       |
| 71) Anthracene                 | 11.54 | 178  | 3137337  | 76.47 | nq    | 97       |
| 72) Carbazole                  | 11.69 | 167  | 2745477  | 72.19 | nq    | 97       |
| 73) Di-n-butylphthalate        | 12.02 | 149  | 3090178  | 67.42 | nq    | # 97     |
| 74) Fluoranthene               | 12.67 | 202  | 2793343  | 68.93 | nq    | 92       |
| 76) Benzydine                  | 12.79 | 184  | 1069156  | 59.29 | nq    | # 95     |
| 77) Pyrene                     | 12.90 | 202  | 2816524  | 76.98 | nq    | 97       |
| 79) Butylbenzylphthalate       | 13.51 | 149  | 1338808  | 78.45 | nq    | 89       |
| 80) Benzo(a)anthracene         | 14.09 | 228  | 2447736  | 70.56 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.05 | 252  | 800715   | 65.69 | nq    | # 97     |
| 82) Chrysene                   | 14.13 | 228  | 2467226  | 77.27 | nq    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 14.07 | 149  | 1713083  | 69.54 | nq    | 99       |
| 84) Di-n-octyl phthalate       | 14.69 | 149  | 2472966  | 66.63 | nq    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.02 | 276  | 1567062  | 61.24 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 15.14 | 252  | 1705897  | 79.60 | nq    | 97       |
| 88) Benzo(k)fluoranthene       | 15.17 | 252  | 1839339m | 94.61 | nq    |          |
| 89) Benzo(a)pyrene             | 15.50 | 252  | 1551567  | 82.75 | nq    | 98       |
| 90) Dibenzo(a,h)anthracene     | 17.04 | 278  | 1384223  | 88.06 | nq    | 98       |
| 91) Benzo(g,h,i)perylene       | 17.46 | 276  | 1307382  | 89.22 | nq    | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

