

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022118\  
 Data File : BF103128.D  
 Acq On : 21 Feb 2018 11:36  
 Operator : SJ/JU  
 Sample : PB106423BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106423BS

Manual Integrations  
 APPROVED

Sohil  
 2/22/2018 9:04:54 AM

Quant Time: Feb 21 12:22:31 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 16 14:34:49 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 174037   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 752018   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 340564   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 582383   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 438762   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.54 | 264  | 403005   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.51  | 112 | 1178507 | 102.84 | ng | 0.02 |
| 7) Phenol-d6             | 6.52  | 99  | 1422739 | 103.11 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.45  | 82  | 936480  | 86.39  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.71 | 330 | 307176  | 112.06 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 1491573 | 72.68  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 1397610 | 75.42  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.74 | 88  | 188401  | 33.285 | ng | 89     |
| 3) Pyridine                    | 3.52 | 79  | 505211  | 32.306 | ng | 92     |
| 4) n-Nitrosodimethylamine      | 3.46 | 42  | 258136  | 38.580 | ng | 100    |
| 6) Aniline                     | 6.54 | 93  | 396976  | 19.481 | ng | 94     |
| 8) 2-Chlorophenol              | 6.67 | 128 | 444845  | 37.705 | ng | 99     |
| 9) Benzaldehyde                | 6.43 | 77  | 92400   | 9.017  | ng | 95     |
| 10) Phenol                     | 6.53 | 94  | 552932  | 37.392 | ng | 94     |
| 11) bis(2-Chloroethyl)ether    | 6.62 | 93  | 446156  | 36.258 | ng | 94     |
| 12) 1,3-Dichlorobenzene        | 6.82 | 146 | 472853  | 34.610 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.89 | 146 | 469924  | 34.529 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.05 | 146 | 434518  | 34.278 | ng | 99     |
| 15) Benzyl Alcohol             | 7.02 | 79  | 382186  | 36.026 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.15 | 45  | 777212  | 33.250 | ng | 97     |
| 17) 2-Methylphenol             | 7.13 | 107 | 388078  | 35.660 | ng | 98     |
| 18) Hexachloroethane           | 7.39 | 117 | 174334  | 37.355 | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.29 | 70  | 302505  | 33.251 | ng | 99     |
| 20) 3+4-Methylphenols          | 7.29 | 107 | 443235  | 33.027 | ng | # 63   |
| 22) Acetophenone               | 7.29 | 105 | 583045  | 31.683 | ng | # 89   |
| 24) Nitrobenzene               | 7.46 | 77  | 489183  | 38.352 | ng | 98     |
| 25) Isophorone                 | 7.70 | 82  | 911245  | 36.505 | ng | 100    |
| 26) 2-Nitrophenol              | 7.77 | 139 | 260134  | 49.357 | ng | 96     |
| 27) 2,4-Dimethylphenol         | 7.81 | 122 | 409890  | 38.867 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.90 | 93  | 568728  | 38.461 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 8.02 | 162 | 375910  | 39.210 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 8.10 | 180 | 368888  | 34.013 | ng | 98     |
| 31) Naphthalene                | 8.18 | 128 | 1261839 | 34.343 | ng | 99     |
| 32) Benzoic acid               | 7.92 | 122 | 137473  | 25.176 | ng | 96     |
| 33) 4-Chloroaniline            | 8.23 | 127 | 195040  | 12.322 | ng | 97     |
| 34) Hexachlorobutadiene        | 8.29 | 225 | 188247  | 33.872 | ng | 97     |
| 35) Caprolactam                | 8.61 | 113 | 132657m | 39.844 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.72 | 107 | 413994  | 38.433 | ng | 97     |
| 37) 2-Methylnaphthalene        | 8.87 | 142 | 837549  | 34.817 | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.04 | 216 | 317089  | 34.195 | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 9.02 | 237 | 252836  | 57.356 | ng | 97     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.15  | 196  | 238349   | 39.133 | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.20  | 196  | 253802   | 36.971 | nq    | 99       |
| 45) 1,1'-Biphenyl              | 9.34  | 154  | 966788   | 33.704 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 9.36  | 162  | 780018   | 34.541 | nq    | 99       |
| 47) 2-Nitroaniline             | 9.46  | 65   | 291358   | 42.259 | nq    | 92       |
| 48) Acenaphthylene             | 9.78  | 152  | 1172763  | 33.436 | nq    | 99       |
| 49) Dimethylphthalate          | 9.63  | 163  | 931197   | 35.067 | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 205566   | 40.690 | nq    | 97       |
| 51) Acenaphthene               | 9.95  | 154  | 680442   | 32.439 | nq    | 100      |
| 52) 3-Nitroaniline             | 9.87  | 138  | 156285   | 25.141 | nq    | 96       |
| 53) 2,4-Dinitrophenol          | 9.99  | 184  | 121726   | 74.992 | nq    | # 20     |
| 54) Dibenzofuran               | 10.12 | 168  | 1023802  | 34.634 | nq    | 97       |
| 55) 4-Nitrophenol              | 10.05 | 139  | 337270   | 66.725 | nq    | 96       |
| 56) 2,4-Dinitrotoluene         | 10.11 | 165  | 269528   | 40.306 | nq    | 96       |
| 57) Fluorene                   | 10.47 | 166  | 774528   | 36.012 | nq    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.25 | 232  | 192071   | 40.369 | nq    | 99       |
| 59) Diethylphthalate           | 10.33 | 149  | 892649   | 34.044 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.46 | 204  | 349385   | 36.722 | nq    | 96       |
| 61) 4-Nitroaniline             | 10.49 | 138  | 245704   | 41.525 | nq    | 93       |
| 62) Azobenzene                 | 10.62 | 77   | 915850   | 34.964 | nq    | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 10.52 | 198  | 104551m  | 44.419 | nq    |          |
| 65) n-Nitrosodiphenylamine     | 10.57 | 169  | 715144   | 34.813 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.94 | 248  | 215952   | 35.054 | nq    | 94       |
| 67) Hexachlorobenzene          | 11.02 | 284  | 227742   | 33.510 | nq    | 94       |
| 68) Atrazine                   | 11.10 | 200  | 217023   | 35.811 | nq    | 98       |
| 69) Pentachlorophenol          | 11.22 | 266  | 211280   | 52.959 | nq    | 98       |
| 70) Phenanthrene               | 11.43 | 178  | 1080472  | 33.312 | nq    | 99       |
| 71) Anthracene                 | 11.49 | 178  | 1150035  | 34.861 | nq    | 99       |
| 72) Carbazole                  | 11.64 | 167  | 1107128  | 34.256 | nq    | 99       |
| 73) Di-n-butylphthalate        | 11.96 | 149  | 1403503  | 35.749 | nq    | 100      |
| 74) Fluoranthene               | 12.62 | 202  | 1130018  | 34.628 | nq    | 99       |
| 76) Benzidine                  | 12.74 | 184  | 435319   | 21.587 | nq    | 98       |
| 77) Pyrene                     | 12.85 | 202  | 1177411  | 34.221 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.46 | 149  | 620140   | 37.902 | nq    | 98       |
| 80) Benzo(a)anthracene         | 14.04 | 228  | 1043640  | 37.821 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.00 | 252  | 226362   | 22.125 | nq    | 98       |
| 82) Chrysene                   | 14.08 | 228  | 977020   | 35.124 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 14.02 | 149  | 851975   | 40.423 | nq    | 99       |
| 84) Di-n-octyl phthalate       | 14.64 | 149  | 1395071  | 44.082 | nq    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.06 | 276  | 806306   | 34.950 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 15.11 | 252  | 913242   | 34.952 | nq    | 97       |
| 88) Benzo(k)fluoranthene       | 15.14 | 252  | 920022   | 36.852 | nq    | 99       |
| 89) Benzo(a)pyrene             | 15.49 | 252  | 843770   | 35.877 | nq    | 98       |
| 90) Dibenzo(a,h)anthracene     | 17.07 | 278  | 655132   | 34.319 | nq    | 100      |
| 91) Benzo(g,h,i)perylene       | 17.52 | 276  | 689010   | 36.876 | nq    | 99       |

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

