

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG112319\  
 Data File : BG043764.D  
 Acq On : 23 Nov 2019 20:16  
 Operator : JU  
 Sample : K5676-25MS  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SU-02-112019MS

Manual Integrations  
 APPROVED

mohammad  
 11/25/2019 2:33:45 PM

Quant Time: Nov 25 03:14:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG112219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 23 00:54:00 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 37568    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.83 | 136  | 210681   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.65 | 164  | 198530   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 579629   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.66 | 240  | 690413   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.84 | 264  | 614863   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.61  | 112 | 388460  | 185.89 | ng | 0.00 |
| 7) Phenol-d6             | 7.18  | 99  | 636164  | 209.42 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.18  | 82  | 333671  | 87.08  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.14 | 330 | 375919  | 156.99 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.28 | 172 | 989417  | 81.92  | ng | 0.00 |
| 79) Terphenyl-d14        | 20.01 | 244 | 2481882 | 81.23  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.52  | 88  | 29757  | 32.116 | ng | # 51   |
| 3) Pyridine                    | 3.93  | 79  | 142536 | 54.634 | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.82  | 42  | 60384  | 46.593 | ng | 94     |
| 6) Aniline                     | 7.34  | 93  | 129512 | 32.716 | ng | 98     |
| 8) 2-Chlorophenol              | 7.59  | 128 | 146771 | 61.581 | ng | 96     |
| 9) Benzaldehyde                | 7.16  | 77  | 23609  | 13.011 | ng | 93     |
| 10) Phenol                     | 7.21  | 94  | 217406 | 69.716 | ng | 96     |
| 11) bis(2-Chloroethyl)ether    | 7.44  | 93  | 131841 | 50.657 | ng | 94     |
| 12) 1,3-Dichlorobenzene        | 7.92  | 146 | 112568 | 40.121 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 8.07  | 146 | 118238 | 41.606 | ng | 96     |
| 14) 1,2-Dichlorobenzene        | 8.38  | 146 | 117943 | 43.863 | ng | 100    |
| 15) Benzyl Alcohol             | 8.26  | 79  | 166835 | 65.754 | ng | 95     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.56  | 45  | 207302 | 46.315 | ng | 99     |
| 17) 2-Methylphenol             | 8.46  | 107 | 152412 | 68.359 | ng | 94     |
| 18) Hexachloroethane           | 9.12  | 117 | 41255  | 38.456 | ng | 93     |
| 19) n-Nitroso-di-n-propylamine | 8.83  | 70  | 136288 | 57.052 | ng | # 93   |
| 20) 3+4-Methylphenols          | 8.78  | 107 | 223269 | 71.779 | ng | 98     |
| 22) Acetophenone               | 8.84  | 105 | 233986 | 41.903 | ng | # 95   |
| 24) Nitrobenzene               | 9.22  | 77  | 174127 | 44.210 | ng | 97     |
| 25) Isophorone                 | 9.75  | 82  | 412327 | 50.184 | ng | 97     |
| 26) 2-Nitrophenol              | 9.94  | 139 | 71101  | 50.035 | ng | 97     |
| 27) 2,4-Dimethylphenol         | 9.99  | 122 | 182576 | 65.433 | ng | 93     |
| 28) bis(2-Chloroethoxy)methane | 10.24 | 93  | 228174 | 45.058 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.47 | 162 | 197974 | 58.363 | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 10.69 | 180 | 156189 | 39.293 | ng | 96     |
| 31) Naphthalene                | 10.88 | 128 | 472542 | 45.215 | ng | 99     |
| 32) Benzoic acid               | 10.11 | 122 | 119076 | 59.177 | ng | 98     |
| 33) 4-Chloroaniline            | 10.98 | 127 | 47978  | 9.528  | ng | 99     |
| 34) Hexachlorobutadiene        | 11.18 | 225 | 90051  | 34.451 | ng | 96     |
| 35) Caprolactam                | 11.74 | 113 | 92055m | 66.740 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.10 | 107 | 250654 | 65.752 | ng | 100    |
| 37) 2-Methylnaphthalene        | 12.49 | 142 | 403714 | 51.260 | ng | 99     |
| 38) 1-Methylnaphthalene        | 12.70 | 142 | 398278 | 53.284 | ng | 99     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.85 | 216 | 226474 | 35.851 | ng | 98     |

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|--------------------------------|-------|------|----------|---------|-------|----------|
| -----                          |       |      |          |         |       |          |
| 41) Hexachlorocyclopentadiene  | 12.84 | 237  | 247775   | 72.597  | ng    | 100      |
| 43) 2,4,6-Trichlorophenol      | 13.08 | 196  | 190687   | 46.934  | ng    | 97       |
| 44) 2,4,5-Trichlorophenol      | 13.16 | 196  | 218695   | 51.741  | ng    | 96       |
| 46) 1,1'-Biphenyl              | 13.49 | 154  | 573176   | 41.651  | ng    | 100      |
| 47) 2-Chloronaphthalene        | 13.53 | 162  | 457803   | 40.794  | ng    | 98       |
| 48) 2-Nitroaniline             | 13.72 | 65   | 159713   | 48.612  | ng    | 98       |
| 49) Acenaphthylene             | 14.38 | 152  | 817151   | 46.281  | ng    | 98       |
| 50) Dimethylphthalate          | 14.11 | 163  | 751164   | 47.763  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.21 | 165  | 161176   | 55.187  | ng    | 98       |
| 52) Acenaphthene               | 14.72 | 154  | 559419   | 49.544  | ng    | 99       |
| 53) 3-Nitroaniline             | 14.54 | 138  | 66241    | 19.418  | ng    | 96       |
| 54) 2,4-Dinitrophenol          | 14.75 | 184  | 145981   | 122.339 | ng    | # 63     |
| 55) Dibenzofuran               | 15.05 | 168  | 827584   | 47.047  | ng    | 99       |
| 56) 4-Nitrophenol              | 14.85 | 139  | 351826   | 122.443 | ng    | 94       |
| 57) 2,4-Dinitrotoluene         | 15.01 | 165  | 231871   | 57.247  | ng    | 95       |
| 58) Fluorene                   | 15.70 | 166  | 700666   | 48.571  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.28 | 232  | 222444m  | 52.399  | ng    |          |
| 60) Diethylphthalate           | 15.48 | 149  | 774731   | 48.983  | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.69 | 204  | 369476   | 46.520  | ng    | 97       |
| 62) 4-Nitroaniline             | 15.71 | 138  | 168857   | 43.167  | ng    | 96       |
| 63) Azobenzene                 | 15.99 | 77   | 700642   | 47.333  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 15.77 | 198  | 110137   | 50.929  | ng    | 95       |
| 66) n-Nitrosodiphenylamine     | 15.91 | 169  | 644830   | 42.018  | ng    | 98       |
| 67) 4-Bromophenyl-phenylether  | 16.59 | 248  | 257156   | 42.070  | ng    | 97       |
| 68) Hexachlorobenzene          | 16.71 | 284  | 277518   | 41.530  | ng    | 96       |
| 69) Atrazine                   | 16.86 | 200  | 217100   | 35.298  | ng    | 98       |
| 70) Pentachlorophenol          | 17.04 | 266  | 401129   | 98.375  | ng    | 99       |
| 71) Phenanthrene               | 17.44 | 178  | 1297337  | 45.234  | ng    | 98       |
| 72) Anthracene                 | 17.53 | 178  | 1323291  | 45.675  | ng    | 97       |
| 73) Carbazole                  | 17.79 | 167  | 1284384  | 45.836  | ng    | 98       |
| 74) Di-n-butylphthalate        | 18.37 | 149  | 1522407  | 41.439  | ng    | 98       |
| 75) Fluoranthene               | 19.45 | 202  | 1775379  | 43.154  | ng    | 95       |
| 77) Benzidine                  | 19.62 | 184  | 76771    | 3.807   | ng    | 97       |
| 78) Pyrene                     | 19.81 | 202  | 1833110  | 41.140  | ng    | 97       |
| 80) Butylbenzylphthalate       | 20.71 | 149  | 891173   | 43.904  | ng    | 99       |
| 81) Benzo(a)anthracene         | 21.65 | 228  | 1991745  | 43.152  | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine     | 21.55 | 252  | 143406   | 8.285   | ng    | 99       |
| 83) Chrysene                   | 21.71 | 228  | 1886824  | 43.201  | ng    | 95       |
| 84) Bis(2-ethylhexyl)phthalate | 21.58 | 149  | 1251144  | 43.807  | ng    | 96       |
| 85) Di-n-octyl phthalate       | 22.79 | 149  | 1771289  | 38.236  | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 28.46 | 276  | 1934144  | 38.070  | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 23.84 | 252  | 1682086  | 45.819  | ng    | 97       |
| 89) Benzo(k)fluoranthene       | 23.91 | 252  | 1610034  | 45.697  | ng    | 99       |
| 90) Benzo(a)pyrene             | 24.69 | 252  | 1507892  | 43.681  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 28.53 | 278  | 1586493  | 47.381  | ng    | 98       |
| 92) Benzo(g,h,i)perylene       | 29.59 | 276  | 1613845  | 48.875  | ng    | 99       |
| -----                          |       |      |          |         |       |          |

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

