

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\  
 Data File : BM020198.D  
 Acq On : 08 May 2019 17:07  
 Operator : JU/SJ  
 Sample : PB119288BS  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: May 09 02:16:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 03:58:37 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 157836   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.58 | 136  | 561445   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.43 | 164  | 310108   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.18 | 188  | 645217   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.36 | 240  | 551668   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.65 | 264  | 608688   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.37  | 112 | 1279006 | 132.46 | ng | 0.00  |
| 7) Phenol-d6             | 6.96  | 99  | 1668086 | 126.45 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 8.95  | 82  | 1039393 | 73.09  | ng | 0.00  |
| 42) 2,4,6-Tribromophenol | 15.92 | 330 | 634602  | 131.84 | ng | 0.00  |
| 45) 2-Fluorobiphenyl     | 13.05 | 172 | 1973967 | 78.32  | ng | -0.01 |
| 79) Terphenyl-d14        | 19.80 | 244 | 2612621 | 82.60  | ng | 0.00  |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88  | 174604  | 36.869 | ng | 95     |
| 3) Pyridine                    | 3.70  | 79  | 456946  | 37.727 | ng | 95     |
| 4) n-Nitrosodimethylamine      | 3.62  | 42  | 138265  | 35.600 | ng | # 69   |
| 6) Aniline                     | 7.12  | 93  | 506531  | 30.504 | ng | 97     |
| 8) 2-Chlorophenol              | 7.35  | 128 | 386115  | 36.724 | ng | 99     |
| 9) Benzaldehyde                | 6.93  | 77  | 286577  | 28.703 | ng | 95     |
| 10) Phenol                     | 6.98  | 94  | 514655  | 36.241 | ng | 95     |
| 11) bis(2-Chloroethyl)ether    | 7.22  | 93  | 399727  | 38.727 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 7.67  | 146 | 456860  | 37.347 | ng | 95     |
| 13) 1,4-Dichlorobenzene        | 7.82  | 146 | 466725  | 37.768 | ng | 96     |
| 14) 1,2-Dichlorobenzene        | 8.13  | 146 | 441731  | 37.520 | ng | 95     |
| 15) Benzyl Alcohol             | 8.03  | 79  | 431289  | 33.906 | ng | 96     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.32  | 45  | 301279  | 35.202 | ng | 98     |
| 17) 2-Methylphenol             | 8.23  | 107 | 332466  | 36.368 | ng | 95     |
| 18) Hexachloroethane           | 8.85  | 117 | 186877  | 36.268 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 8.59  | 70  | 377024  | 33.406 | ng | 96     |
| 20) 3+4-Methylphenols          | 8.55  | 107 | 444209  | 36.561 | ng | 96     |
| 22) Acetophenone               | 8.61  | 105 | 609644  | 39.731 | ng | 97     |
| 24) Nitrobenzene               | 8.99  | 77  | 548026  | 37.167 | ng | 96     |
| 25) Isophorone                 | 9.52  | 82  | 925846  | 37.753 | ng | 97     |
| 26) 2-Nitrophenol              | 9.70  | 139 | 209061  | 46.965 | ng | 95     |
| 27) 2,4-Dimethylphenol         | 9.75  | 122 | 333249  | 44.967 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 9.99  | 93  | 512410  | 38.364 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.23 | 162 | 371868  | 39.793 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 10.44 | 180 | 463821  | 40.337 | ng | 97     |
| 31) Naphthalene                | 10.63 | 128 | 1129934 | 38.782 | ng | 99     |
| 32) Benzoic acid               | 9.89  | 122 | 190234  | 37.719 | ng | 93     |
| 33) 4-Chloroaniline            | 10.75 | 127 | 225308  | 18.788 | ng | 95     |
| 34) Hexachlorobutadiene        | 10.89 | 225 | 315162  | 38.745 | ng | 99     |
| 35) Caprolactam                | 11.56 | 113 | 98617m  | 35.292 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 11.87 | 107 | 385353  | 35.090 | ng | 91     |
| 37) 2-Methylnaphthalene        | 12.25 | 142 | 824256  | 38.805 | ng | 97     |
| 38) 1-Methylnaphthalene        | 12.46 | 142 | 778584  | 37.485 | ng | 98     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.61 | 216 | 519665  | 42.832 | ng | # 98   |

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|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.57 | 237  | 822511   | 115.138 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol      | 12.86 | 196  | 312263   | 45.286  | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 12.93 | 196  | 317235   | 41.183  | ng    | 98       |
| 46) 1,1'-Biphenyl              | 13.26 | 154  | 1042079  | 40.826  | ng    | 99       |
| 47) 2-Chloronaphthalene        | 13.30 | 162  | 836955   | 41.068  | ng    | 99       |
| 48) 2-Nitroaniline             | 13.52 | 65   | 266194   | 36.689  | ng    | 91       |
| 49) Acenaphthylene             | 14.15 | 152  | 1235988  | 37.896  | ng    | 99       |
| 50) Dimethylphthalate          | 13.89 | 163  | 970872   | 36.836  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.02 | 165  | 208939   | 37.638  | ng    | 95       |
| 52) Acenaphthene               | 14.49 | 154  | 727152   | 38.878  | ng    | 97       |
| 53) 3-Nitroaniline             | 14.35 | 138  | 115516   | 22.420  | ng    | 95       |
| 54) 2,4-Dinitrophenol          | 14.56 | 184  | 243185   | 86.667  | ng    | 90       |
| 55) Dibenzofuran               | 14.83 | 168  | 1192308  | 37.793  | ng    | 98       |
| 56) 4-Nitrophenol              | 14.66 | 139  | 297657   | 67.712  | ng    | 86       |
| 57) 2,4-Dinitrotoluene         | 14.80 | 165  | 283151   | 37.537  | ng    | 90       |
| 58) Fluorene                   | 15.48 | 166  | 943200   | 36.403  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.06 | 232  | 288718   | 39.441  | ng    | 95       |
| 60) Diethylphthalate           | 15.25 | 149  | 930785   | 35.052  | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.47 | 204  | 550331   | 37.487  | ng    | 94       |
| 62) 4-Nitroaniline             | 15.52 | 138  | 179320   | 31.537  | ng    | 91       |
| 63) Azobenzene                 | 15.77 | 77   | 1044038  | 33.328  | ng    | 96       |
| 65) 4,6-Dinitro-2-methylphenol | 15.56 | 198  | 146720   | 45.506  | ng    | 99       |
| 66) n-Nitrosodiphenylamine     | 15.69 | 169  | 802026   | 42.243  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.37 | 248  | 329390   | 41.632  | ng    | 94       |
| 68) Hexachlorobenzene          | 16.47 | 284  | 375763   | 41.271  | ng    | 95       |
| 69) Atrazine                   | 16.64 | 200  | 290187   | 39.111  | ng    | 99       |
| 70) Pentachlorophenol          | 16.82 | 266  | 428024   | 82.165  | ng    | 97       |
| 71) Phenanthrene               | 17.22 | 178  | 1383415  | 38.842  | ng    | 99       |
| 72) Anthracene                 | 17.31 | 178  | 1414756  | 39.729  | ng    | 99       |
| 73) Carbazole                  | 17.59 | 167  | 1161952  | 36.162  | ng    | 98       |
| 74) Di-n-butylphthalate        | 18.14 | 149  | 1446198  | 37.400  | ng    | 98       |
| 75) Fluoranthene               | 19.24 | 202  | 1577542  | 35.007  | ng    | 99       |
| 77) Benzidine                  | 19.43 | 184  | 849840   | 48.185  | ng    | 98       |
| 78) Pyrene                     | 19.60 | 202  | 1589083  | 42.904  | ng    | 100      |
| 80) Butylbenzylphthalate       | 20.50 | 149  | 599721   | 44.526  | ng    | 99       |
| 81) Benzo(a)anthracene         | 21.34 | 228  | 1419423  | 36.689  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine     | 21.28 | 252  | 390064   | 26.416  | ng    | 99       |
| 83) Chrysene                   | 21.40 | 228  | 1409201  | 37.558  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 851777   | 40.754  | ng    | 99       |
| 85) Di-n-octyl phthalate       | 22.16 | 149  | 1418133  | 40.824  | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 25.99 | 276  | 1872018  | 41.945  | ng    | # 100    |
| 88) Benzo(b)fluoranthene       | 22.96 | 252  | 1458167  | 36.278  | ng    | 100      |
| 89) Benzo(k)fluoranthene       | 23.00 | 252  | 1436543  | 39.180  | ng    | 99       |
| 90) Benzo(a)pyrene             | 23.55 | 252  | 1448309  | 39.669  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 26.00 | 278  | 1605760  | 42.292  | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 26.70 | 276  | 1601502  | 44.428  | ng    | 98       |

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

