

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM121718\  
 Data File : BM018260.D  
 Acq On : 17 Dec 2018 23:07  
 Operator : JU/SJ  
 Sample : PB115777BS  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB115777BS

Manual Integrations  
 APPROVED

Sohil  
 12/18/2018 6:15:18 PM

Quant Time: Dec 18 02:46:14 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM121518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 15 21:39:37 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.49  | 152  | 125658   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.26 | 136  | 444188   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.15 | 164  | 204838   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 16.91 | 188  | 360113   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.13 | 240  | 362125   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 23.29 | 264  | 445998   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.13  | 112 | 569863  | 75.76 | ng | 0.00  |
| 7) Phenol-d6             | 6.69  | 99  | 719969  | 68.86 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 8.65  | 82  | 696506  | 80.43 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 15.66 | 330 | 186464  | 62.02 | ng | -0.01 |
| 45) 2-Fluorobiphenyl     | 12.76 | 172 | 1324737 | 83.77 | ng | -0.01 |
| 79) Terphenyl-d14        | 19.57 | 244 | 1117418 | 69.79 | ng | 0.00  |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.13  | 88  | 91872   | 30.832 | ng | 99     |
| 3) Pyridine                    | 3.51  | 79  | 264609  | 30.185 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 3.43  | 42  | 110414  | 36.593 | ng | # 99   |
| 6) Aniline                     | 6.84  | 93  | 187316  | 14.282 | ng | 99     |
| 8) 2-Chlorophenol              | 7.06  | 128 | 287110  | 32.305 | ng | 97     |
| 9) Benzaldehyde                | 6.66  | 77  | 90884   | 14.261 | ng | 98     |
| 10) Phenol                     | 6.72  | 94  | 352262  | 31.814 | ng | 99     |
| 11) bis(2-Chloroethyl)ether    | 6.94  | 93  | 264845  | 30.096 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 7.38  | 146 | 311572  | 31.394 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 7.53  | 146 | 316007  | 31.356 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 7.83  | 146 | 302728  | 31.160 | ng | 98     |
| 15) Benzyl Alcohol             | 7.75  | 79  | 250963  | 29.458 | ng | 95     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.03  | 45  | 222182  | 28.056 | ng | 93     |
| 17) 2-Methylphenol             | 7.95  | 107 | 230090  | 31.121 | ng | 96     |
| 18) Hexachloroethane           | 8.54  | 117 | 118475  | 32.073 | ng | 92     |
| 19) n-Nitroso-di-n-propylamine | 8.30  | 70  | 218275  | 27.960 | ng | 99     |
| 20) 3+4-Methylphenols          | 8.28  | 107 | 299134  | 28.874 | ng | 98     |
| 22) Acetophenone               | 8.32  | 105 | 420832  | 35.801 | ng | 99     |
| 24) Nitrobenzene               | 8.69  | 77  | 325734  | 37.645 | ng | 96     |
| 25) Isophorone                 | 9.21  | 82  | 549327  | 38.102 | ng | 98     |
| 26) 2-Nitrophenol              | 9.39  | 139 | 140449  | 33.094 | ng | 90     |
| 27) 2,4-Dimethylphenol         | 9.46  | 122 | 235043  | 38.428 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 9.70  | 93  | 338111  | 35.978 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 9.93  | 162 | 230749  | 34.026 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.12 | 180 | 274161  | 35.542 | ng | 95     |
| 31) Naphthalene                | 10.31 | 128 | 802182  | 36.933 | ng | 100    |
| 32) Benzoic acid               | 9.62  | 122 | 136249m | 23.525 | ng |        |
| 33) 4-Chloroaniline            | 10.45 | 127 | 59759   | 6.281  | ng | 99     |
| 34) Hexachlorobutadiene        | 10.57 | 225 | 172543  | 35.367 | ng | 99     |
| 35) Caprolactam                | 11.25 | 113 | 60458m  | 23.396 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 11.58 | 107 | 238693  | 29.293 | ng | 98     |
| 37) 2-Methylnaphthalene        | 11.93 | 142 | 555117  | 36.242 | ng | 97     |
| 38) 1-Methylnaphthalene        | 12.16 | 142 | 512993  | 34.322 | ng | 97     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.31 | 216 | 275941  | 39.175 | ng | 98     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.27 | 237  | 253275   | 81.896 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol      | 12.57 | 196  | 168266   | 37.141 | ng    | 93       |
| 44) 2,4,5-Trichlorophenol      | 12.65 | 196  | 170120   | 35.371 | ng    | 97       |
| 46) 1,1'-Biphenyl              | 12.97 | 154  | 660536   | 35.844 | ng    | 98       |
| 47) 2-Chloronaphthalene        | 13.01 | 162  | 506881   | 37.371 | ng    | 97       |
| 48) 2-Nitroaniline             | 13.25 | 65   | 141822   | 33.944 | ng    | 97       |
| 49) Acenaphthylene             | 13.87 | 152  | 780930   | 38.207 | ng    | 98       |
| 50) Dimethylphthalate          | 13.62 | 163  | 573775   | 33.693 | ng    | 98       |
| 51) 2,6-Dinitrotoluene         | 13.75 | 165  | 124399   | 33.229 | ng    | 93       |
| 52) Acenaphthene               | 14.22 | 154  | 448224   | 35.883 | ng    | 99       |
| 53) 3-Nitroaniline             | 14.09 | 138  | 55650    | 14.126 | ng    | 95       |
| 54) 2,4-Dinitrophenol          | 14.31 | 184  | 94030    | 45.533 | ng    | 94       |
| 55) Dibenzofuran               | 14.56 | 168  | 689791   | 34.367 | ng    | 98       |
| 56) 4-Nitrophenol              | 14.42 | 139  | 157762   | 52.817 | ng    | 95       |
| 57) 2,4-Dinitrotoluene         | 14.56 | 165  | 162856   | 31.472 | ng    | 89       |
| 58) Fluorene                   | 15.21 | 166  | 541728   | 34.945 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 14.79 | 232  | 140094   | 32.343 | ng    | # 97     |
| 60) Diethylphthalate           | 15.00 | 149  | 561488   | 30.552 | ng    | 98       |
| 61) 4-Chlorophenyl-phenylether | 15.21 | 204  | 283420   | 32.327 | ng    | 97       |
| 62) 4-Nitroaniline             | 15.26 | 138  | 89245    | 23.874 | ng    | 87       |
| 63) Azobenzene                 | 15.50 | 77   | 572390   | 34.158 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylphenol | 15.33 | 198  | 68589    | 25.872 | ng    | 96       |
| 66) n-Nitrosodiphenylamine     | 15.43 | 169  | 461223   | 38.731 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.11 | 248  | 161072   | 36.932 | ng    | 98       |
| 68) Hexachlorobenzene          | 16.22 | 284  | 174287   | 36.477 | ng    | 99       |
| 69) Atrazine                   | 16.40 | 200  | 153474   | 38.176 | ng    | 97       |
| 70) Pentachlorophenol          | 16.57 | 266  | 184065   | 58.331 | ng    | 98       |
| 71) Phenanthrene               | 16.96 | 178  | 738583   | 37.759 | ng    | 98       |
| 72) Anthracene                 | 17.04 | 178  | 754578   | 38.885 | ng    | 99       |
| 73) Carbazole                  | 17.33 | 167  | 624387   | 31.348 | ng    | 99       |
| 74) Di-n-butylphthalate        | 17.90 | 149  | 807079   | 32.840 | ng    | 99       |
| 75) Fluoranthene               | 18.99 | 202  | 748061   | 32.893 | ng    | 98       |
| 77) Benzidine                  | 19.20 | 184  | 327228   | 35.635 | ng    | 98       |
| 78) Pyrene                     | 19.35 | 202  | 776956   | 36.008 | ng    | 99       |
| 80) Butylbenzylphthalate       | 20.28 | 149  | 331655   | 32.309 | ng    | 97       |
| 81) Benzo(a)anthracene         | 21.12 | 228  | 792933   | 37.485 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 21.06 | 252  | 251620   | 29.774 | ng    | 96       |
| 83) Chrysene                   | 21.17 | 228  | 757821   | 37.246 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.06 | 149  | 483294   | 31.591 | ng    | 97       |
| 85) Di-n-octyl phthalate       | 21.92 | 149  | 852303   | 34.018 | ng    | 100      |
| 86) Indeno(1,2,3-cd)pyrene     | 25.43 | 276  | 1197706  | 59.094 | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 22.66 | 252  | 898114   | 35.849 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 22.70 | 252  | 900545   | 36.094 | ng    | 98       |
| 90) Benzo(a)pyrene             | 23.20 | 252  | 913491   | 38.338 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene     | 25.44 | 278  | 1015951  | 46.029 | ng    | 97       |
| 92) Benzo(g,h,i)perylene       | 26.08 | 276  | 1009555  | 48.387 | ng    | 97       |

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

