

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042618\  
 Data File : BG034031.D  
 Acq On : 27 Apr 2018 3:45  
 Operator : SJ/JU  
 Sample : PB108616BS  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB108616BS

Manual Integrations  
 APPROVED

Sohil  
 4/27/2018 7:31:11 PM

Quant Time: Apr 27 07:19:57 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 13:56:22 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 57542    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.60 | 136  | 281310   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 14.45 | 164  | 220090   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 17.20 | 188  | 590602   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 21.45 | 240  | 610020   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12          | 24.50 | 264  | 627397   | 20.00 | ng    | -0.06    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.43  | 112 | 336359  | 93.32  | ng | -0.01 |
| 7) Phenol-d6             | 7.00  | 99  | 511515  | 97.30  | ng | 0.00  |
| 23) Nitrobenzene-d5      | 8.97  | 82  | 451398  | 91.32  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 15.94 | 330 | 304699  | 118.67 | ng | -0.02 |
| 44) 2-Fluorobiphenyl     | 13.07 | 172 | 1451886 | 96.91  | ng | -0.03 |
| 78) Terphenyl-d14        | 19.83 | 244 | 2557387 | 94.18  | ng | -0.03 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.40  | 88  | 56200   | 36.902 | ng | # 82   |
| 3) Pyridine                    | 3.78  | 79  | 103255  | 23.433 | ng | 90     |
| 4) n-Nitrosodimethylamine      | 3.71  | 42  | 53180   | 26.491 | ng | # 94   |
| 6) Aniline                     | 7.16  | 93  | 77890   | 11.084 | ng | # 96   |
| 8) 2-Chlorophenol              | 7.39  | 128 | 196058  | 48.547 | ng | 97     |
| 9) Benzaldehyde                | 6.98  | 77  | 73937m  | 23.594 | ng |        |
| 10) Phenol                     | 7.03  | 94  | 219751  | 40.805 | ng | 97     |
| 11) bis(2-Chloroethyl)ether    | 7.25  | 93  | 181873m | 44.156 | ng |        |
| 12) 1,3-Dichlorobenzene        | 7.71  | 146 | 205268m | 44.153 | ng |        |
| 13) 1,4-Dichlorobenzene        | 7.85  | 146 | 230979m | 49.054 | ng |        |
| 14) 1,2-Dichlorobenzene        | 8.16  | 146 | 205334  | 44.841 | ng | 94     |
| 15) Benzyl Alcohol             | 8.07  | 79  | 148063  | 32.300 | ng | 95     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.34  | 45  | 300847  | 37.449 | ng | 82     |
| 17) 2-Methylphenol             | 8.27  | 107 | 156246  | 39.151 | ng | 94     |
| 18) Hexachloroethane           | 8.88  | 117 | 80828   | 46.975 | ng | 97     |
| 19) n-Nitroso-di-n-propylamine | 8.62  | 70  | 168516  | 37.606 | ng | 91     |
| 20) 3+4-Methylphenols          | 8.59  | 107 | 199734  | 34.444 | ng | 95     |
| 22) Acetophenone               | 8.63  | 105 | 287657  | 37.571 | ng | # 96   |
| 24) Nitrobenzene               | 9.02  | 77  | 218771  | 40.615 | ng | # 94   |
| 25) Isophorone                 | 9.53  | 82  | 484063  | 43.556 | ng | # 93   |
| 26) 2-Nitrophenol              | 9.72  | 139 | 102717  | 48.262 | ng | 88     |
| 27) 2,4-Dimethylphenol         | 9.79  | 122 | 184225  | 46.277 | ng | 94     |
| 28) bis(2-Chloroethoxy)methane | 10.02 | 93  | 252653  | 43.016 | ng | 97     |
| 29) 2,4-Dichlorophenol         | 10.26 | 162 | 226106  | 50.950 | ng | 91     |
| 30) 1,2,4-Trichlorobenzene     | 10.46 | 180 | 233715  | 47.021 | ng | 98     |
| 31) Naphthalene                | 10.64 | 128 | 662382  | 45.788 | ng | 98     |
| 32) Benzoic acid               | 9.94  | 122 | 133351m | 35.133 | ng |        |
| 33) 4-Chloroaniline            | 10.80 | 127 | 39901m  | 5.868  | ng |        |
| 34) Hexachlorobutadiene        | 10.93 | 225 | 149273  | 50.202 | ng | 96     |
| 35) Caprolactam                | 11.55 | 113 | 89190m  | 47.271 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 11.90 | 107 | 261366  | 48.254 | ng | 91     |
| 37) 2-Methylnaphthalene        | 12.26 | 142 | 524774  | 47.381 | ng | 94     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.63 | 216 | 325465  | 44.534 | ng | 97     |
| 40) Hexachlorocyclopentadiene  | 12.61 | 237 | 385009  | 95.811 | ng | 92     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 12.88 | 196  | 202917   | 45.539 | nq    | 97       |
| 43) 2,4,5-Trichlorophenol      | 12.96 | 196  | 248592   | 48.528 | nq    | 91       |
| 45) 1,1'-Biphenyl              | 13.28 | 154  | 775548   | 43.531 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 13.32 | 162  | 592818   | 43.883 | nq    | 98       |
| 47) 2-Nitroaniline             | 13.54 | 65   | 163589   | 38.784 | nq #  | 80       |
| 48) Acenaphthylene             | 14.17 | 152  | 969234   | 43.163 | nq    | 98       |
| 49) Dimethylphthalate          | 13.91 | 163  | 857370   | 44.285 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 14.03 | 165  | 189781   | 51.726 | nq    | 85       |
| 51) Acenaphthene               | 14.51 | 154  | 574371   | 40.718 | nq    | 98       |
| 52) 3-Nitroaniline             | 14.40 | 138  | 36854    | 9.251  | nq #  | 75       |
| 53) 2,4-Dinitrophenol          | 14.57 | 184  | 89215    | 67.994 | nq #  | 64       |
| 54) Dibenzofuran               | 14.85 | 168  | 985887   | 47.142 | nq    | 95       |
| 55) 4-Nitrophenol              | 14.70 | 139  | 205674   | 65.826 | nq #  | 82       |
| 56) 2,4-Dinitrotoluene         | 14.82 | 165  | 270773   | 55.499 | nq #  | 79       |
| 57) Fluorene                   | 15.50 | 166  | 842690   | 46.564 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.08 | 232  | 260406   | 55.519 | nq    | 91       |
| 59) Diethylphthalate           | 15.28 | 149  | 910808   | 44.508 | nq    | 97       |
| 60) 4-Chlorophenyl-phenylether | 15.50 | 204  | 467154   | 49.352 | nq    | 97       |
| 61) 4-Nitroaniline             | 15.56 | 138  | 160638   | 37.976 | nq    | 90       |
| 62) Azobenzene                 | 15.79 | 77   | 762081   | 41.777 | nq    | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 15.59 | 198  | 105090   | 38.446 | nq    | 87       |
| 65) n-Nitrosodiphenylamine     | 15.71 | 169  | 758629   | 44.182 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.39 | 248  | 301970   | 46.557 | nq    | 95       |
| 67) Hexachlorobenzene          | 16.50 | 284  | 322492   | 46.623 | nq #  | 71       |
| 68) Atrazine                   | 16.67 | 200  | 328888   | 48.893 | nq    | 99       |
| 69) Pentachlorophenol          | 16.85 | 266  | 350232   | 73.713 | nq #  | 57       |
| 70) Phenanthrene               | 17.24 | 178  | 1394573  | 44.016 | nq    | 97       |
| 71) Anthracene                 | 17.33 | 178  | 1478279  | 46.656 | nq    | 98       |
| 72) Carbazole                  | 17.61 | 167  | 1331213  | 43.550 | nq    | 97       |
| 73) Di-n-butylphthalate        | 18.18 | 149  | 1555311  | 40.900 | nq    | 98       |
| 74) Fluoranthene               | 19.26 | 202  | 1736085  | 45.298 | nq    | 96       |
| 76) Benzidine                  | 19.47 | 184  | 265021   | 16.088 | nq    | 99       |
| 77) Pyrene                     | 19.62 | 202  | 1726485  | 43.150 | nq    | 94       |
| 79) Butylbenzylphthalate       | 20.53 | 149  | 737074   | 41.949 | nq    | 92       |
| 80) Benzo(a)anthracene         | 21.43 | 228  | 1691951  | 43.985 | nq    | 97       |
| 81) 3,3'-Dichlorobenzidine     | 21.37 | 252  | 344791   | 24.039 | nq    | 100      |
| 82) Chrysene                   | 21.50 | 228  | 1676072  | 45.629 | nq    | 95       |
| 83) Bis(2-ethylhexyl)phthalate | 21.37 | 149  | 1014408  | 40.879 | nq    | 99       |
| 84) Di-n-octyl phthalate       | 22.52 | 149  | 1748108  | 44.383 | nq    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 27.95 | 276  | 2025647  | 48.446 | nq #  | 91       |
| 87) Benzo(b)fluoranthene       | 23.54 | 252  | 1725794  | 45.090 | nq    | 97       |
| 88) Benzo(k)fluoranthene       | 23.61 | 252  | 1737250  | 45.694 | nq    | 97       |
| 89) Benzo(a)pyrene             | 24.36 | 252  | 1727037  | 47.115 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene     | 28.02 | 278  | 1663560  | 46.902 | nq    | 97       |
| 91) Benzo(g,h,i)perylene       | 29.03 | 276  | 1687711  | 48.357 | nq    | 99       |

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

