

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG072319\  
 Data File : BG041757.D  
 Acq On : 23 Jul 2019 15:54  
 Operator : HP/JU  
 Sample : K3934-11MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1SMS

Manual Integrations  
 APPROVED

mohammad  
 7/24/2019 11:35:30 AM

Quant Time: Jul 24 03:16:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 16:16:21 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 100249   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.85 | 136  | 379280   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.66 | 164  | 264533   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 581416   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.65 | 240  | 610922   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.85 | 264  | 729299   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.61  | 112 | 721210  | 117.61 | ng | 0.00  |
| 7) Phenol-d6             | 7.20  | 99  | 969061  | 117.49 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 9.20  | 82  | 586326  | 94.01  | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 16.14 | 330 | 462006  | 154.97 | ng | 0.00  |
| 45) 2-Fluorobiphenyl     | 13.29 | 172 | 1285906 | 75.27  | ng | -0.01 |
| 79) Terphenyl-d14        | 20.00 | 244 | 2077387 | 79.46  | ng | 0.00  |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.49  | 88  | 85043   | 29.199 | ng | 93     |
| 3) Pyridine                    | 3.89  | 79  | 211178  | 27.163 | ng | 94     |
| 4) n-Nitrosodimethylamine      | 3.80  | 42  | 114155  | 31.795 | ng | 97     |
| 6) Aniline                     | 7.36  | 93  | 237504  | 21.424 | ng | 96     |
| 8) 2-Chlorophenol              | 7.61  | 128 | 265545  | 38.250 | ng | 97     |
| 9) Benzaldehyde                | 7.17  | 77  | 171850  | 32.132 | ng | 96     |
| 10) Phenol                     | 7.23  | 94  | 330221  | 37.999 | ng | 98     |
| 11) bis(2-Chloroethyl)ether    | 7.46  | 93  | 238516  | 33.984 | ng | 96     |
| 12) 1,3-Dichlorobenzene        | 7.93  | 146 | 298796  | 36.070 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 8.08  | 146 | 302333  | 36.444 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 8.40  | 146 | 289007  | 36.951 | ng | 93     |
| 15) Benzyl Alcohol             | 8.27  | 79  | 229160  | 34.897 | ng | 99     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.57  | 45  | 434638  | 29.886 | ng | 97     |
| 17) 2-Methylphenol             | 8.48  | 107 | 228843  | 38.078 | ng | 99     |
| 18) Hexachloroethane           | 9.13  | 117 | 106636  | 35.095 | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 8.85  | 70  | 202863  | 33.649 | ng | 95     |
| 20) 3+4-Methylphenols          | 8.81  | 107 | 315025  | 38.251 | ng | 99     |
| 22) Acetophenone               | 8.86  | 105 | 383452  | 41.510 | ng | # 97   |
| 24) Nitrobenzene               | 9.24  | 77  | 280622  | 41.248 | ng | 98     |
| 25) Isophorone                 | 9.77  | 82  | 533886  | 39.094 | ng | # 98   |
| 26) 2-Nitrophenol              | 9.96  | 139 | 152724  | 48.843 | ng | 97     |
| 27) 2,4-Dimethylphenol         | 10.01 | 122 | 256535  | 47.477 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 10.25 | 93  | 329474  | 39.144 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.49 | 162 | 290190  | 47.105 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.71 | 180 | 318860  | 44.082 | ng | 99     |
| 31) Naphthalene                | 10.90 | 128 | 813379  | 43.560 | ng | 98     |
| 33) 4-Chloroaniline            | 11.00 | 127 | 203810  | 23.663 | ng | 98     |
| 34) Hexachlorobutadiene        | 11.19 | 225 | 201793  | 43.404 | ng | 99     |
| 35) Caprolactam                | 11.76 | 113 | 115610m | 51.056 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.11 | 107 | 281233  | 43.576 | ng | 98     |
| 37) 2-Methylnaphthalene        | 12.50 | 142 | 613930  | 43.034 | ng | 100    |
| 38) 1-Methylnaphthalene        | 12.72 | 142 | 576086  | 42.357 | ng | 99     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.87 | 216 | 383376  | 42.309 | ng | 98     |
| 41) Hexachlorocyclopentadiene  | 12.85 | 237 | 386144  | 75.334 | ng | 98     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG072319\  
 Data File : BG041757.D  
 Acq On : 23 Jul 2019 15:54  
 Operator : HP/JU  
 Sample : K3934-11MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 TP-1SMS

Manual Integrations  
 APPROVED

mohammad  
 7/24/2019 11:35:30 AM

Quant Time: Jul 24 03:16:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 16:16:21 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 43) 2,4,6-Trichlorophenol      | 13.09 | 196  | 266259   | 45.223 | ng    | 96       |
| 44) 2,4,5-Trichlorophenol      | 13.17 | 196  | 287258   | 46.308 | ng    | 97       |
| 46) 1,1'-Biphenyl              | 13.50 | 154  | 765181   | 38.610 | ng    | 98       |
| 47) 2-Chloronaphthalene        | 13.54 | 162  | 628961   | 38.080 | ng    | 99       |
| 48) 2-Nitroaniline             | 13.74 | 65   | 186300   | 38.740 | ng    | 92       |
| 49) Acenaphthylene             | 14.39 | 152  | 978452   | 37.947 | ng    | 99       |
| 50) Dimethylphthalate          | 14.12 | 163  | 991640   | 47.730 | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.23 | 165  | 192321   | 43.641 | ng    | 92       |
| 52) Acenaphthene               | 14.73 | 154  | 601018   | 36.988 | ng    | 98       |
| 53) 3-Nitroaniline             | 14.55 | 138  | 141397   | 29.393 | ng    | # 94     |
| 54) 2,4-Dinitrophenol          | 14.76 | 184  | 40143    | 24.012 | ng    | 94       |
| 55) Dibenzofuran               | 15.06 | 168  | 969949   | 39.779 | ng    | 97       |
| 56) 4-Nitrophenol              | 14.86 | 139  | 352577   | 90.525 | ng    | 95       |
| 57) 2,4-Dinitrotoluene         | 15.01 | 165  | 263609   | 45.252 | ng    | # 96     |
| 58) Fluorene                   | 15.70 | 166  | 778118   | 39.219 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.28 | 232  | 280101   | 48.910 | ng    | # 95     |
| 60) Diethylphthalate           | 15.47 | 149  | 782795   | 37.400 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.70 | 204  | 457890   | 40.828 | ng    | 98       |
| 62) 4-Nitroaniline             | 15.72 | 138  | 205271   | 40.233 | ng    | 99       |
| 63) Azobenzene                 | 15.99 | 77   | 657763   | 34.761 | ng    | 96       |
| 65) 4,6-Dinitro-2-methylphenol | 15.77 | 198  | 113986   | 42.230 | ng    | 89       |
| 66) n-Nitrosodiphenylamine     | 15.91 | 169  | 746304   | 43.710 | ng    | 97       |
| 67) 4-Bromophenyl-phenylether  | 16.59 | 248  | 310382   | 44.865 | ng    | 98       |
| 68) Hexachlorobenzene          | 16.71 | 284  | 315760   | 45.326 | ng    | 94       |
| 69) Atrazine                   | 16.86 | 200  | 294717   | 47.565 | ng    | 99       |
| 70) Pentachlorophenol          | 17.05 | 266  | 418243   | 96.018 | ng    | 99       |
| 71) Phenanthrene               | 17.44 | 178  | 1270037  | 43.375 | ng    | 97       |
| 72) Anthracene                 | 17.53 | 178  | 1312061  | 44.954 | ng    | 97       |
| 73) Carbazole                  | 17.80 | 167  | 1181078  | 43.633 | ng    | 97       |
| 74) Di-n-butylphthalate        | 18.36 | 149  | 1326199  | 40.170 | ng    | 97       |
| 75) Fluoranthene               | 19.45 | 202  | 1558716  | 43.354 | ng    | 94       |
| 77) Benzidine                  | 19.61 | 184  | 621090   | 26.383 | ng    | 98       |
| 78) Pyrene                     | 19.80 | 202  | 1583817  | 38.332 | ng    | 96       |
| 80) Butylbenzylphthalate       | 20.69 | 149  | 641763   | 37.378 | ng    | 93       |
| 81) Benzo(a)anthracene         | 21.63 | 228  | 1592880  | 40.355 | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine     | 21.54 | 252  | 443771   | 28.570 | ng    | 95       |
| 83) Chrysene                   | 21.70 | 228  | 1549206  | 41.074 | ng    | 96       |
| 84) Bis(2-ethylhexyl)phthalate | 21.55 | 149  | 924022   | 38.116 | ng    | 98       |
| 85) Di-n-octyl phthalate       | 22.75 | 149  | 1584151  | 38.372 | ng    | 94       |
| 86) Indeno(1,2,3-cd)pyrene     | 28.49 | 276  | 2066587  | 41.526 | ng    | 95       |
| 88) Benzo(b)fluoranthene       | 23.84 | 252  | 1771652  | 40.049 | ng    | 96       |
| 89) Benzo(k)fluoranthene       | 23.90 | 252  | 1718900  | 41.934 | ng    | # 96     |
| 90) Benzo(a)pyrene             | 24.69 | 252  | 1756390  | 41.964 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene     | 28.55 | 278  | 1690836  | 41.665 | ng    | # 96     |
| 92) Benzo(g,h,i)perylene       | 29.63 | 276  | 1722705  | 42.360 | ng    | # 93     |

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

