

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG053019\  
 Data File : BG040945.D  
 Acq On : 30 May 2019 10:42  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDCCC040

Manual Integrations  
 APPROVED

mohammad  
 5/31/2019 8:13:08 AM

Quant Time: May 30 15:11:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 18:39:57 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 53047    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.95 | 136  | 222545   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.76 | 164  | 165817   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.50 | 188  | 414664   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.78 | 240  | 409019   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.12 | 264  | 438738   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 243440  | 82.75 | ng | 0.00 |
| 7) Phenol-d6             | 7.27  | 99  | 364217  | 80.17 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.30  | 82  | 428481  | 85.47 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.24 | 330 | 200667  | 81.52 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.38 | 172 | 950918  | 82.59 | ng | 0.00 |
| 79) Terphenyl-d14        | 20.09 | 244 | 1605529 | 83.31 | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.52  | 88  | 59311   | 44.430 | ng | 98     |
| 3) Pyridine                    | 3.93  | 79  | 170913  | 43.269 | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.86  | 42  | 90310   | 49.262 | ng | 83     |
| 6) Aniline                     | 7.45  | 93  | 245031  | 40.405 | ng | 99     |
| 8) 2-Chlorophenol              | 7.68  | 128 | 139127  | 39.669 | ng | 97     |
| 9) Benzaldehyde                | 7.26  | 77  | 116610  | 43.026 | ng | 86     |
| 10) Phenol                     | 7.29  | 94  | 193197  | 39.660 | ng | 98     |
| 11) bis(2-Chloroethyl)ether    | 7.54  | 93  | 149148  | 42.205 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 8.01  | 146 | 170982  | 40.818 | ng | 95     |
| 13) 1,4-Dichlorobenzene        | 8.16  | 146 | 174939  | 41.259 | ng | 91     |
| 14) 1,2-Dichlorobenzene        | 8.48  | 146 | 167153  | 40.602 | ng | 94     |
| 15) Benzyl Alcohol             | 8.36  | 79  | 173138  | 41.196 | ng | 92     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.65  | 45  | 241744  | 41.863 | ng | 97     |
| 17) 2-Methylphenol             | 8.56  | 107 | 136226  | 38.623 | ng | 98     |
| 18) Hexachloroethane           | 9.21  | 117 | 69325   | 42.422 | ng | 95     |
| 19) n-Nitroso-di-n-propylamine | 8.93  | 70  | 145624  | 41.651 | ng | 96     |
| 20) 3+4-Methylphenols          | 8.89  | 107 | 195108  | 39.935 | ng | 98     |
| 22) Acetophenone               | 8.96  | 105 | 267401  | 42.834 | ng | 97     |
| 24) Nitrobenzene               | 9.34  | 77  | 216425  | 42.364 | ng | 99     |
| 25) Isophorone                 | 9.86  | 82  | 409429  | 42.917 | ng | 99     |
| 26) 2-Nitrophenol              | 10.06 | 139 | 92171   | 43.765 | ng | 90     |
| 27) 2,4-Dimethylphenol         | 10.10 | 122 | 146264  | 42.051 | ng | 88     |
| 28) bis(2-Chloroethoxy)methane | 10.34 | 93  | 214073  | 41.575 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.58 | 162 | 179965  | 40.744 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 10.80 | 180 | 202921  | 40.385 | ng | 96     |
| 31) Naphthalene                | 11.00 | 128 | 493960  | 41.340 | ng | 99     |
| 32) Benzoic acid               | 10.24 | 122 | 114299  | 43.233 | ng | 92     |
| 33) 4-Chloroaniline            | 11.11 | 127 | 219310  | 39.558 | ng | 96     |
| 34) Hexachlorobutadiene        | 11.26 | 225 | 158515  | 41.230 | ng | 97     |
| 35) Caprolactam                | 11.91 | 113 | 59863   | 41.041 | ng | 92     |
| 36) 4-Chloro-3-methylphenol    | 12.21 | 107 | 206518  | 40.939 | ng | 94     |
| 37) 2-Methylnaphthalene        | 12.59 | 142 | 369062  | 40.104 | ng | 98     |
| 38) 1-Methylnaphthalene        | 12.81 | 142 | 348843m | 40.227 | ng |        |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.95 | 216 | 271234  | 40.584 | ng | 99     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG053019\  
 Data File : BG040945.D  
 Acq On : 30 May 2019 10:42  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTDCCC040

Manual Integrations  
 APPROVED

mohammad  
 5/31/2019 8:13:08 AM

Quant Time: May 30 15:11:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 18:39:57 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.92 | 237  | 165734   | 49.619 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol      | 13.19 | 196  | 182901   | 42.304 | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 13.26 | 196  | 185430   | 40.667 | ng    | 96       |
| 46) 1,1'-Biphenyl              | 13.59 | 154  | 503425   | 41.015 | ng    | 98       |
| 47) 2-Chloronaphthalene        | 13.64 | 162  | 434783   | 41.262 | ng    | 99       |
| 48) 2-Nitroaniline             | 13.85 | 65   | 166241   | 43.977 | ng    | 96       |
| 49) Acenaphthylene             | 14.49 | 152  | 645841   | 40.724 | ng    | 100      |
| 50) Dimethylphthalate          | 14.20 | 163  | 567367   | 40.421 | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 14.33 | 165  | 123863   | 40.928 | ng    | 93       |
| 52) Acenaphthene               | 14.82 | 154  | 387926   | 40.378 | ng    | 97       |
| 53) 3-Nitroaniline             | 14.67 | 138  | 111798   | 36.942 | ng    | 99       |
| 54) 2,4-Dinitrophenol          | 14.87 | 184  | 75061    | 55.669 | ng    | 92       |
| 55) Dibenzofuran               | 15.16 | 168  | 655924   | 40.575 | ng    | 99       |
| 56) 4-Nitrophenol              | 14.96 | 139  | 92000    | 44.321 | ng    | 84       |
| 57) 2,4-Dinitrotoluene         | 15.11 | 165  | 179783   | 42.054 | ng    | # 95     |
| 58) Fluorene                   | 15.80 | 166  | 519031   | 40.316 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.37 | 232  | 185332   | 41.359 | ng    | 99       |
| 60) Diethylphthalate           | 15.56 | 149  | 591131   | 41.267 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.78 | 204  | 340160   | 40.650 | ng    | 97       |
| 62) 4-Nitroaniline             | 15.83 | 138  | 120349   | 37.564 | ng    | 98       |
| 63) Azobenzene                 | 16.08 | 77   | 535126   | 41.102 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylphenol | 15.87 | 198  | 110131   | 49.284 | ng    | 94       |
| 66) n-Nitrosodiphenylamine     | 16.00 | 169  | 469780   | 40.301 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether  | 16.68 | 248  | 223598   | 39.956 | ng    | 94       |
| 68) Hexachlorobenzene          | 16.80 | 284  | 236057   | 39.614 | ng    | 97       |
| 69) Atrazine                   | 16.94 | 200  | 196770   | 43.748 | ng    | 99       |
| 70) Pentachlorophenol          | 17.14 | 266  | 136533   | 44.751 | ng    | 98       |
| 71) Phenanthrene               | 17.54 | 178  | 878190   | 40.658 | ng    | 98       |
| 72) Anthracene                 | 17.64 | 178  | 891283   | 41.839 | ng    | 99       |
| 73) Carbazole                  | 17.91 | 167  | 763335   | 41.761 | ng    | 99       |
| 74) Di-n-butylphthalate        | 18.44 | 149  | 934125   | 41.118 | ng    | 98       |
| 75) Fluoranthene               | 19.54 | 202  | 1099197  | 41.201 | ng    | 98       |
| 77) Benzidine                  | 19.73 | 184  | 82778    | 8.484  | ng    | # 96     |
| 78) Pyrene                     | 19.91 | 202  | 1103061  | 41.486 | ng    | 99       |
| 80) Butylbenzylphthalate       | 20.77 | 149  | 432510   | 41.799 | ng    | 98       |
| 81) Benzo(a)anthracene         | 21.76 | 228  | 1135758  | 41.715 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine     | 21.67 | 252  | 314153   | 32.805 | ng    | 96       |
| 83) Chrysene                   | 21.83 | 228  | 1075808  | 41.290 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 21.63 | 149  | 737166   | 50.609 | ng    | 100      |
| 85) Di-n-octyl phthalate       | 22.88 | 149  | 1017078  | 41.926 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 28.95 | 276  | 1299173  | 40.705 | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 24.05 | 252  | 1125723  | 42.303 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 24.12 | 252  | 1068983  | 40.594 | ng    | 98       |
| 90) Benzo(a)pyrene             | 24.96 | 252  | 1074108  | 42.306 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene     | 29.03 | 278  | 1059474  | 41.763 | ng    | 98       |
| 92) Benzo(g,h,i)perylene       | 30.17 | 276  | 1042238  | 42.288 | ng    | 97       |

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

