

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG033123\  
 Data File : BG056943.D  
 Acq On : 31 Mar 2023 14:10  
 Operator : CG/JU  
 Sample : 01627-01  
 Misc : LOD-MDL-SOIL 4ppm  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2023

Quant Time: Apr 01 02:34:23 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG033023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 31 03:23:11 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Christian Giraldo 04/03/2023  
 Supervised By : Jagrut Upadhyay 04/03/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.419  | 152  | 15308    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.257 | 136  | 61823    | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 15.034 | 164  | 50520    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.771 | 188  | 124797   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 22.095 | 240  | 121746   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.643 | 264  | 131444   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.917  | 112  | 101797   | 106.428 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.538  | 99   | 151372   | 105.815 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.588  | 82   | 117586   | 77.824  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.508 | 330  | 85240    | 105.616 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.659 | 172  | 286155   | 76.807  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.344 | 244  | 557427   | 77.477  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.726  | 88   | 1934     | 4.613   | ng    | 90       |
| 3) Pyridine                   | 4.160  | 79   | 4342m    | 3.215   | ng    |          |
| 4) n-Nitrosodimethylamine     | 4.055  | 42   | 2243     | 3.612   | ng    | # 79     |
| 6) Aniline                    | 7.726  | 93   | 7334     | 4.010   | ng    | # 91     |
| 8) 2-Chlorophenol             | 7.967  | 128  | 3368     | 3.535   | ng    | 91       |
| 9) Benzaldehyde               | 7.532  | 77   | 4650     | 5.182   | ng    | 95       |
| 10) Phenol                    | 7.568  | 94   | 5682     | 4.009   | ng    | 83       |
| 11) bis(2-Chloroethyl)ether   | 7.808  | 93   | 3680     | 3.645   | ng    | # 77     |
| 12) 1,3-Dichlorobenzene       | 8.302  | 146  | 4120     | 3.914   | ng    | # 78     |
| 13) 1,4-Dichlorobenzene       | 8.449  | 146  | 4486     | 4.222   | ng    | 90       |
| 14) 1,2-Dichlorobenzene       | 8.778  | 146  | 4076m    | 3.971   | ng    |          |
| 15) Benzyl Alcohol            | 8.643  | 79   | 4077     | 3.430   | ng    | # 87     |
| 16) 2,2'-oxybis(1-Chloropr... | 8.930  | 45   | 4832     | 3.971   | ng    | 88       |
| 17) 2-Methylphenol            | 8.836  | 107  | 3640     | 3.599   | ng    | 97       |
| 18) Hexachloroethane          | 9.530  | 117  | 1516     | 3.904   | ng    | # 82     |
| 19) n-Nitroso-di-n-propyla... | 9.207  | 70   | 3957     | 3.867   | ng    | # 88     |
| 20) 3+4-Methylphenols         | 9.171  | 107  | 4817     | 3.406   | ng    | 99       |
| 22) Acetophenone              | 9.242  | 105  | 7102     | 3.861   | ng    | # 97     |
| 24) Nitrobenzene              | 9.635  | 77   | 6032     | 3.905   | ng    | 97       |
| 25) Isophorone                | 10.146 | 82   | 10882    | 3.782   | ng    | 97       |
| 26) 2-Nitrophenol             | 10.358 | 139  | 2272     | 3.810   | ng    | # 82     |
| 27) 2,4-Dimethylphenol        | 10.393 | 122  | 3902     | 3.707   | ng    | 94       |
| 28) bis(2-Chloroethoxy)met... | 10.634 | 93   | 5665     | 3.933   | ng    | 93       |
| 29) 2,4-Dichlorophenol        | 10.887 | 162  | 4104     | 3.625   | ng    | 83       |
| 30) 1,2,4-Trichlorobenzene    | 11.116 | 180  | 5119     | 4.255   | ng    | # 87     |
| 31) Naphthalene               | 11.310 | 128  | 12659    | 3.757   | ng    | # 93     |
| 33) 4-Chloroaniline           | 11.409 | 127  | 5456     | 3.585   | ng    | # 89     |
| 34) Hexachlorobutadiene       | 11.586 | 225  | 3595     | 3.978   | ng    | 85       |
| 35) Caprolactam               | 12.132 | 113  | 1228     | 3.145   | ng    | # 60     |
| 36) 4-Chloro-3-methylphenol   | 12.484 | 107  | 4647     | 3.670   | ng    | 95       |
| 37) 2-Methylnaphthalene       | 12.878 | 142  | 8976     | 3.356   | ng    | 88       |
| 38) 1-Methylnaphthalene       | 13.101 | 142  | 9077     | 3.614   | ng    | 91       |
| 40) 1,2,4,5-Tetrachloroben... | 13.248 | 216  | 6590     | 3.762   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 13.219 | 237  | 3031     | 3.140   | ng    | # 75     |
| 43) 2,4,6-Trichlorophenol     | 13.471 | 196  | 3788     | 3.388   | ng    | 97       |
| 44) 2,4,5-Trichlorophenol     | 13.536 | 196  | 3960     | 2.990   | ng    | 93       |

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### Manual Integrations APPROVED

Reviewed By :Christian Giraldo 04/03/2023  
 Supervised By :Jagrut Upadhyay 04/03/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) 1,1'-Biphenyl             | 13.871 | 154  | 14437    | 3.904 | ng    | 90       |
| 47) 2-Chloronaphthalene       | 13.918 | 162  | 10686    | 3.907 | ng    | 95       |
| 48) 2-Nitroaniline            | 14.106 | 65   | 3318     | 3.393 | ng    | 85       |
| 49) Acenaphthylene            | 14.758 | 152  | 16756    | 3.729 | ng    | 97       |
| 50) Dimethylphthalate         | 14.458 | 163  | 15538    | 3.903 | ng    | # 97     |
| 51) 2,6-Dinitrotoluene        | 14.588 | 165  | 3024     | 3.516 | ng    | # 86     |
| 52) Acenaphthene              | 15.093 | 154  | 10518    | 3.394 | ng    | 93       |
| 53) 3-Nitroaniline            | 14.922 | 138  | 2801     | 3.290 | ng    | # 93     |
| 55) Dibenzofuran              | 15.422 | 168  | 17633    | 3.791 | ng    | 94       |
| 56) 4-Nitrophenol             | 15.210 | 139  | 2383     | 3.786 | ng    | # 63     |
| 57) 2,4-Dinitrotoluene        | 15.369 | 165  | 3849     | 3.173 | ng    | # 83     |
| 58) Fluorene                  | 16.074 | 166  | 14807    | 3.847 | ng    | 87       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.645 | 232  | 3939     | 3.267 | ng    | # 95     |
| 60) Diethylphthalate          | 15.809 | 149  | 14534    | 3.642 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 16.050 | 204  | 8168     | 3.614 | ng    | 97       |
| 62) 4-Nitroaniline            | 16.074 | 138  | 3768     | 4.272 | ng    | # 83     |
| 63) Azobenzene                | 16.344 | 77   | 14809    | 3.724 | ng    | 95       |
| 65) 4,6-Dinitro-2-methylph... | 16.132 | 198  | 1933     | 2.557 | ng    | 85       |
| 66) n-Nitrosodiphenylamine    | 16.262 | 169  | 13269    | 3.961 | ng    | 91       |
| 67) 4-Bromophenyl-phenylether | 16.949 | 248  | 5420     | 3.510 | ng    | 95       |
| 68) Hexachlorobenzene         | 17.072 | 284  | 5966     | 3.908 | ng    | 93       |
| 69) Atrazine                  | 17.190 | 200  | 5789     | 4.163 | ng    | 95       |
| 71) Phenanthrene              | 17.813 | 178  | 25214    | 3.963 | ng    | 99       |
| 72) Anthracene                | 17.907 | 178  | 25019    | 3.836 | ng    | 97       |
| 73) Carbazole                 | 18.165 | 167  | 22659    | 3.984 | ng    | 97       |
| 74) Di-n-butylphthalate       | 18.688 | 149  | 23354    | 3.546 | ng    | 99       |
| 75) Fluoranthene              | 19.798 | 202  | 29599    | 3.670 | ng    | 98       |
| 77) Benzidine                 | 19.963 | 184  | 17829    | 5.358 | ng    | 98       |
| 78) Pyrene                    | 20.162 | 202  | 30678    | 3.643 | ng    | 94       |
| 80) Butylbenzylphthalate      | 21.020 | 149  | 9903     | 3.418 | ng    | 97       |
| 81) Benzo(a)anthracene        | 22.071 | 228  | 31669    | 3.759 | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine    | 21.966 | 252  | 12276    | 4.315 | ng    | 97       |
| 83) Chrysene                  | 22.142 | 228  | 29712    | 3.767 | ng    | 95       |
| 84) Bis(2-ethylhexyl)phtha... | 21.925 | 149  | 14514    | 3.459 | ng    | # 95     |
| 85) Di-n-octyl phthalate      | 23.246 | 149  | 24588    | 3.477 | ng    | # 97     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.738 | 276  | 37158    | 3.825 | ng    | # 86     |
| 88) Benzo(b)fluoranthene      | 24.503 | 252  | 32386    | 3.940 | ng    | # 91     |
| 89) Benzo(k)fluoranthene      | 24.574 | 252  | 33095m   | 4.033 | ng    |          |
| 90) Benzo(a)pyrene            | 25.473 | 252  | 28656    | 3.548 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 29.790 | 278  | 29294    | 3.669 | ng    | # 96     |
| 92) Benzo(g,h,i)perylene      | 31.006 | 276  | 29893    | 3.823 | ng    | # 91     |

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

