

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061724\  
 Data File : BF138212.D  
 Acq On : 17 Jun 2024 18:58  
 Operator : CG\JU  
 Sample : P2883-01MSD  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Soil/Gravel-SPMSD

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/18/2024  
 Supervised By :mohammad ahmed 06/19/2024

Quant Time: Jun 18 00:54:06 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061224.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 13 01:52:47 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.892  | 152  | 391449   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.175  | 136  | 1541360  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.928  | 164  | 848450   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 1462437  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 764249   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.515 | 264  | 829469   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.522  | 112  | 2632239  | 112.487 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.522  | 99   | 3339768  | 112.554 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.457  | 82   | 2069637  | 78.169  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.722 | 330  | 931865   | 110.325 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.251  | 172  | 3664039  | 68.671  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 3887229  | 80.559  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.775  | 88   | 445115   | 41.565  | ng    | 99       |
| 3) Pyridine                   | 3.528  | 79   | 1163394  | 45.710  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.487  | 42   | 588259   | 49.941  | ng    | 94       |
| 6) Aniline                    | 6.557  | 93   | 1157701  | 39.874  | ng    | 99       |
| 8) 2-Chlorophenol             | 6.675  | 128  | 1297170  | 51.274  | ng    | 94       |
| 9) Benzaldehyde               | 6.439  | 77   | 248920   | 15.795  | ng    | 98       |
| 10) Phenol                    | 6.539  | 94   | 1566992m | 52.038  | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.628  | 93   | 1209765  | 50.197  | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 6.834  | 146  | 1293727  | 44.997  | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 6.910  | 146  | 1312858  | 45.374  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.063  | 146  | 1260224  | 46.397  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.034  | 79   | 1068231  | 53.392  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163  | 45   | 1683488  | 49.495  | ng    | 99       |
| 17) 2-Methylphenol            | 7.145  | 107  | 1025822  | 51.393  | ng    | 98       |
| 18) Hexachloroethane          | 7.404  | 117  | 472258   | 48.178  | ng    | 92       |
| 19) n-Nitroso-di-n-propyla... | 7.310  | 70   | 876140   | 49.813  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.298  | 107  | 1224898  | 48.755  | ng    | 96       |
| 22) Acetophenone              | 7.304  | 105  | 1593772  | 45.264  | ng    | 96       |
| 24) Nitrobenzene              | 7.475  | 77   | 1320526  | 48.257  | ng    | 100      |
| 25) Isophorone                | 7.716  | 82   | 2401053  | 50.136  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.792  | 139  | 679125   | 61.719  | ng    | 99       |
| 27) 2,4-Dimethylphenol        | 7.828  | 122  | 912211m  | 54.491  | ng    |          |
| 28) bis(2-Chloroethoxy)met... | 7.928  | 93   | 1489952  | 49.701  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 8.034  | 162  | 1066021  | 49.461  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.116  | 180  | 1139068  | 44.814  | ng    | 98       |
| 31) Naphthalene               | 8.198  | 128  | 3445616  | 45.208  | ng    | 98       |
| 32) Benzoic acid              | 7.957  | 122  | 807553   | 54.733  | ng    | 99       |
| 33) 4-Chloroaniline           | 8.239  | 127  | 403422   | 14.162  | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 644838   | 43.378  | ng    | 99       |
| 35) Caprolactam               | 8.616  | 113  | 350621m  | 53.885  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.722  | 107  | 1116220  | 52.016  | ng    | 94       |
| 37) 2-Methylnaphthalene       | 8.886  | 142  | 2314522  | 46.272  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.986  | 142  | 2173212  | 44.335  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.051  | 216  | 1059077  | 42.716  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 9.039  | 237  | 1131544  | 139.967 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.163  | 196  | 778946   | 50.176  | ng    | 99       |

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| 44) 2,4,5-Trichlorophenol     | 9.204  | 196  | 828236   | 48.581  | ng    | 97       |
| 46) 1,1'-Biphenyl             | 9.351  | 154  | 2732595  | 43.891  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.375  | 162  | 2222686  | 45.174  | ng    | 99       |
| 48) 2-Nitroaniline            | 9.475  | 65   | 666217   | 56.224  | ng    | 93       |
| 49) Acenaphthylene            | 9.792  | 152  | 3382863  | 49.031  | ng    | 98       |
| 50) Dimethylphthalate         | 9.657  | 163  | 2537116  | 48.805  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.716  | 165  | 593524   | 52.628  | ng    | 92       |
| 52) Acenaphthene              | 9.963  | 154  | 2370476  | 50.385  | ng    | 99       |
| 53) 3-Nitroaniline            | 9.880  | 138  | 456308   | 37.875  | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 9.986  | 184  | 587742   | 95.482  | ng    | 98       |
| 55) Dibenzofuran              | 10.139 | 168  | 3032896  | 46.114  | ng    | 100      |
| 56) 4-Nitrophenol             | 10.045 | 139  | 972171   | 102.110 | ng    | 91       |
| 57) 2,4-Dinitrotoluene        | 10.116 | 165  | 798531   | 57.407  | ng    | # 84     |
| 58) Fluorene                  | 10.480 | 166  | 2313327  | 44.736  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232  | 667753   | 50.117  | ng    | 97       |
| 60) Diethylphthalate          | 10.351 | 149  | 2449761  | 49.652  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204  | 1164333  | 45.210  | ng    | 98       |
| 62) 4-Nitroaniline            | 10.504 | 138  | 580435   | 48.219  | ng    | 93       |
| 63) Azobenzene                | 10.633 | 77   | 2445398  | 49.472  | ng    | 94       |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198  | 403645   | 53.275  | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 10.592 | 169  | 2112437  | 47.181  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 780395   | 47.357  | ng    | # 89     |
| 68) Hexachlorobenzene         | 11.022 | 284  | 869588   | 45.218  | ng    | 97       |
| 69) Atrazine                  | 11.116 | 200  | 686394   | 53.823  | ng    | 97       |
| 70) Pentachlorophenol         | 11.216 | 266  | 1030144  | 91.848  | ng    | 98       |
| 71) Phenanthrene              | 11.439 | 178  | 3355958  | 46.402  | ng    | 99       |
| 72) Anthracene                | 11.492 | 178  | 3400040  | 47.350  | ng    | 98       |
| 73) Carbazole                 | 11.645 | 167  | 2965386  | 45.026  | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 3608157  | 52.920  | ng    | 99       |
| 75) Fluoranthene              | 12.627 | 202  | 3300385  | 44.752  | ng    | 99       |
| 77) Benzidine                 | 12.745 | 184  | 983060   | 111.208 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 3295875  | 49.997  | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 1357563  | 75.710  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 2442627  | 49.819  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 13.998 | 252  | 644840   | 47.759  | ng    | # 99     |
| 83) Chrysene                  | 14.074 | 228  | 2372471  | 50.765  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.027 | 149  | 1739528  | 83.411  | ng    | 97       |
| 85) Di-n-octyl phthalate      | 14.645 | 149  | 2611032  | 84.275  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.003 | 276  | 2578077  | 47.677  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.092 | 252  | 2436209  | 49.805  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.121 | 252  | 2299436  | 47.967  | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.462 | 252  | 2225171  | 52.952  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.021 | 278  | 2071340  | 46.669  | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.451 | 276  | 1959992  | 42.687  | ng    | 98       |

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

