

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102623\  
 Data File : BF135963.D  
 Acq On : 26 Oct 2023 15:02  
 Operator : CG\JU  
 Sample : 05015-02MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11991MSD

Quant Time: Oct 26 15:24:56 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 26 03:58:01 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/27/2023  
 Supervised By :mohammad ahmed 10/27/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.822  | 152  | 179909   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.104  | 136  | 715698   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.863  | 164  | 369029   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.357 | 188  | 667502   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.010 | 240  | 326160   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.492 | 264  | 402866   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.457  | 112  | 961959   | 82.565  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.457  | 99   | 1221824  | 84.235  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.387  | 82   | 692528   | 65.079  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.657 | 330  | 337908   | 104.612 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.186  | 172  | 1321374  | 57.336  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.951 | 244  | 1360264  | 69.680  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.681  | 88   | 211586   | 39.095  | ng    | 99       |
| 3) Pyridine                   | 3.428  | 79   | 505109   | 33.813  | ng    | 100      |
| 4) n-Nitrosodimethylamine     | 3.399  | 42   | 259589   | 39.854  | ng    | 98       |
| 6) Aniline                    | 6.487  | 93   | 460034   | 23.554  | ng    | 100      |
| 8) 2-Chlorophenol             | 6.610  | 128  | 560109   | 46.438  | ng    | 96       |
| 9) Benzaldehyde               | 6.375  | 77   | 159902   | 20.379  | ng    | 99       |
| 10) Phenol                    | 6.469  | 94   | 665389m  | 43.880  | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.563  | 93   | 514725   | 43.609  | ng    | 95       |
| 12) 1,3-Dichlorobenzene       | 6.763  | 146  | 559927   | 43.706  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.845  | 146  | 567483   | 44.105  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 6.992  | 146  | 539283   | 45.135  | ng    | 98       |
| 15) Benzyl Alcohol            | 6.969  | 79   | 437545   | 42.672  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.104  | 45   | 755698   | 43.475  | ng    | 98       |
| 17) 2-Methylphenol            | 7.075  | 107  | 428130   | 40.274  | ng    | 99       |
| 18) Hexachloroethane          | 7.334  | 117  | 205000   | 46.856  | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 7.245  | 70   | 357751   | 43.373  | ng    | 95       |
| 20) 3+4-Methylphenols         | 7.234  | 107  | 521036   | 40.611  | ng    | # 76     |
| 22) Acetophenone              | 7.234  | 105  | 712105   | 44.053  | ng    | 100      |
| 24) Nitrobenzene              | 7.410  | 77   | 534005   | 45.213  | ng    | 96       |
| 25) Isophorone                | 7.645  | 82   | 1012871  | 44.773  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.722  | 139  | 255242   | 56.598  | ng    | 98       |
| 27) 2,4-Dimethylphenol        | 7.763  | 122  | 433953   | 42.088  | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 7.863  | 93   | 625451   | 45.022  | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 7.963  | 162  | 447275   | 48.444  | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 8.045  | 180  | 479655   | 45.884  | ng    | 99       |
| 31) Naphthalene               | 8.128  | 128  | 1513703  | 43.746  | ng    | 100      |
| 32) Benzoic acid              | 7.881  | 122  | 312562   | 56.743  | ng    | 92       |
| 33) 4-Chloroaniline           | 8.175  | 127  | 146177   | 9.558   | ng    | 97       |
| 34) Hexachlorobutadiene       | 8.245  | 225  | 269248   | 45.696  | ng    | 99       |
| 35) Caprolactam               | 8.557  | 113  | 151185m  | 49.206  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.657  | 107  | 473731   | 48.282  | ng    | 98       |
| 37) 2-Methylnaphthalene       | 8.822  | 142  | 973829   | 42.536  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.922  | 142  | 953618   | 44.578  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 8.986  | 216  | 460917   | 44.222  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 8.975  | 237  | 490817   | 95.502  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.098  | 196  | 311554   | 51.071  | ng    | 98       |

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|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.139  | 196  | 336371   | 46.440 | ng    | 95       |
| 46) 1,1'-Biphenyl             | 9.286  | 154  | 1248781  | 44.659 | ng    | 100      |
| 47) 2-Chloronaphthalene       | 9.310  | 162  | 938887   | 45.395 | ng    | 98       |
| 48) 2-Nitroaniline            | 9.404  | 65   | 287568   | 50.346 | ng    | 98       |
| 49) Acenaphthylene            | 9.728  | 152  | 1497828  | 45.904 | ng    | 99       |
| 50) Dimethylphthalate         | 9.592  | 163  | 1089945  | 45.545 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.651  | 165  | 243134   | 48.904 | ng    | 88       |
| 52) Acenaphthene              | 9.898  | 154  | 1013647  | 48.474 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.816  | 138  | 153311   | 27.932 | ng    | # 94     |
| 54) 2,4-Dinitrophenol         | 9.922  | 184  | 160780   | 82.817 | ng    | 96       |
| 55) Dibenzofuran              | 10.075 | 168  | 1355409  | 44.867 | ng    | 99       |
| 56) 4-Nitrophenol             | 9.980  | 139  | 422137   | 86.865 | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 10.057 | 165  | 318171   | 51.346 | ng    | 96       |
| 58) Fluorene                  | 10.416 | 166  | 1030913  | 45.614 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.186 | 232  | 281783   | 51.700 | ng    | 99       |
| 60) Diethylphthalate          | 10.298 | 149  | 1043677  | 45.734 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 10.410 | 204  | 479659   | 43.997 | ng    | 99       |
| 62) 4-Nitroaniline            | 10.439 | 138  | 249425   | 42.971 | ng    | 92       |
| 63) Azobenzene                | 10.575 | 77   | 1033124  | 44.610 | ng    | 94       |
| 65) 4,6-Dinitro-2-methylph... | 10.457 | 198  | 118185   | 52.303 | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 10.533 | 169  | 921924   | 45.718 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.904 | 248  | 318735   | 46.626 | ng    | 93       |
| 68) Hexachlorobenzene         | 10.963 | 284  | 360799   | 49.408 | ng    | 92       |
| 69) Atrazine                  | 11.063 | 200  | 314115   | 57.141 | ng    | 98       |
| 70) Pentachlorophenol         | 11.157 | 266  | 381745   | 82.322 | ng    | 99       |
| 71) Phenanthrene              | 11.380 | 178  | 1654151  | 48.982 | ng    | 99       |
| 72) Anthracene                | 11.433 | 178  | 1550749  | 44.847 | ng    | 98       |
| 73) Carbazole                 | 11.586 | 167  | 1360049  | 44.092 | ng    | 98       |
| 74) Di-n-butylphthalate       | 11.927 | 149  | 1578393  | 48.087 | ng    | 100      |
| 75) Fluoranthene              | 12.574 | 202  | 1635916  | 46.045 | ng    | 98       |
| 77) Benzidine                 | 12.698 | 184  | 474753   | 75.488 | ng    | 99       |
| 78) Pyrene                    | 12.804 | 202  | 1589857  | 58.054 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.439 | 149  | 514935   | 49.613 | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.998 | 228  | 1092139  | 49.246 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.963 | 252  | 186689   | 27.670 | ng    | 99       |
| 83) Chrysene                  | 14.033 | 228  | 1022971  | 47.361 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149  | 575854   | 51.136 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.621 | 149  | 996944   | 56.198 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.998 | 276  | 1212792  | 53.090 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.057 | 252  | 1166913  | 48.671 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.086 | 252  | 925377   | 39.299 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.427 | 252  | 981091   | 44.400 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.027 | 278  | 973464   | 49.820 | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 17.462 | 276  | 932255   | 42.435 | ng    | 99       |

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

