

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP102220\  
 Data File : BP003713.D  
 Acq On : 23 Oct 2020 08:04  
 Operator : CG/JU  
 Sample : L4221-14MSD  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 OK-03-102020MSD

Manual Integrations  
 APPROVED

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 10/23/2020 1:32:58 PM

Quant Time: Oct 23 09:11:55 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP101920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 19 14:54:24 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.528  | 152  | 192361   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.375 | 136  | 715237   | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 15.128 | 164  | 450085   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.845 | 188  | 948563   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.857 | 240  | 775840   | 20.00  | ng    | # 0.00   |
| 86) Perylene-d12              | 24.427 | 264  | 643972   | 20.00  | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 6.028  | 112  | 1453634  | 126.36 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.681  | 99   | 1713001  | 105.40 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.699  | 82   | 1494046  | 88.37  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.598 | 330  | 895650   | 127.55 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.757 | 172  | 3108602  | 89.29  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.310 | 244  | 4160888  | 94.32  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.711  | 88   | 174704   | 35.55  | ng    | # 35     |
| 3) Pyridine                   | 4.146  | 79   | 480138   | 34.54  | ng    | 93       |
| 4) n-Nitrosodimethylamine     | 4.034  | 42   | 230305   | 38.84  | ng    | # 68     |
| 6) Aniline                    | 7.828  | 93   | 387673   | 21.49  | ng    | # 89     |
| 8) 2-Chlorophenol             | 8.093  | 128  | 547478   | 47.80  | ng    | 84       |
| 9) Benzaldehyde               | 7.622  | 77   | 207075   | 23.48  | ng    | # 79     |
| 10) Phenol                    | 7.705  | 94   | 724277   | 46.79  | ng    | 81       |
| 11) bis(2-Chloroethyl)ether   | 7.911  | 93   | 569841   | 46.39  | ng    | 92       |
| 12) 1,3-Dichlorobenzene       | 8.422  | 146  | 546038   | 36.97  | ng    | # 91     |
| 13) 1,4-Dichlorobenzene       | 8.563  | 146  | 559327   | 37.50  | ng    | # 94     |
| 14) 1,2-Dichlorobenzene       | 8.899  | 146  | 543157   | 38.43  | ng    | 95       |
| 15) Benzyl Alcohol            | 8.758  | 79   | 579082   | 46.61  | ng    | # 85     |
| 16) 2,2'-oxybis(1-Chloropr... | 9.052  | 45   | 515065   | 42.31  | ng    | 98       |
| 17) 2-Methylphenol            | 8.981  | 107  | 480131   | 46.83  | ng    | # 91     |
| 18) Hexachloroethane          | 9.652  | 117  | 207372   | 36.08  | ng    | 95       |
| 19) n-Nitroso-di-n-propyla... | 9.334  | 70   | 455235   | 45.84  | ng    | # 87     |
| 20) 3+4-Methylphenols         | 9.310  | 107  | 640838   | 46.43  | ng    | 92       |
| 22) Acetophenone              | 9.352  | 105  | 899493   | 42.97  | ng    | # 89     |
| 24) Nitrobenzene              | 9.740  | 77   | 686391   | 42.17  | ng    | # 78     |
| 25) Isophorone                | 10.263 | 82   | 1232276  | 45.23  | ng    | # 89     |
| 26) 2-Nitrophenol             | 10.463 | 139  | 291312   | 47.92  | ng    | # 65     |
| 27) 2,4-Dimethylphenol        | 10.522 | 122  | 493475   | 51.69  | ng    | # 85     |
| 28) bis(2-Chloroethoxy)met... | 10.734 | 93   | 737412   | 42.43  | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 11.016 | 162  | 564479   | 45.07  | ng    | 95       |
| 30) 1,2,4-Trichlorobenzene    | 11.240 | 180  | 623855   | 38.86  | ng    | 98       |
| 31) Naphthalene               | 11.422 | 128  | 1610051  | 41.76  | ng    | 99       |
| 32) Benzoic acid              | 10.687 | 122  | 265480   | 40.52  | ng    | # 67     |
| 33) 4-Chloroaniline           | 11.505 | 127  | 117620   | 7.40   | ng    | # 86     |
| 34) Hexachlorobutadiene       | 11.734 | 225  | 432983   | 35.75  | ng    | 98       |
| 35) Caprolactam               | 12.234 | 113  | 128227   | 34.96  | ng    | # 60     |
| 36) 4-Chloro-3-methylphenol   | 12.610 | 107  | 613865   | 45.18  | ng    | 84       |
| 37) 2-Methylnaphthalene       | 12.987 | 142  | 1204730  | 43.06  | ng    | # 96     |
| 38) 1-Methylnaphthalene       | 13.204 | 142  | 1113850m | 42.12  | ng    |          |
| 40) 1,2,4,5-Tetrachloroben... | 13.363 | 216  | 790149   | 44.33  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 13.357 | 237  | 966060   | 93.62  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 13.581 | 196  | 483845   | 45.62  | ng    | 98       |

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|-------------------------------|--------|------|----------|-------|-------|----------|-----|
| 44) 2,4,5-Trichlorophenol     | 13.657 | 196  | 511872   | 46.46 | ng    | #        | 94  |
| 46) 1,1'-Biphenyl             | 13.963 | 154  | 1557776  | 44.38 | ng    |          | 98  |
| 47) 2-Chloronaphthalene       | 14.016 | 162  | 1243538  | 42.37 | ng    |          | 99  |
| 48) 2-Nitroaniline            | 14.187 | 65   | 364993   | 42.11 | ng    | #        | 60  |
| 49) Acenaphthylene            | 14.851 | 152  | 1854186  | 44.25 | ng    |          | 100 |
| 50) Dimethylphthalate         | 14.551 | 163  | 1796612  | 48.58 | ng    |          | 99  |
| 51) 2,6-Dinitrotoluene        | 14.663 | 165  | 350143   | 46.55 | ng    | #        | 70  |
| 52) Acenaphthene              | 15.193 | 154  | 1319872  | 46.67 | ng    |          | 84  |
| 53) 3-Nitroaniline            | 14.993 | 138  | 131083   | 17.75 | ng    | #        | 62  |
| 54) 2,4-Dinitrophenol         | 15.198 | 184  | 310838   | 73.35 | ng    | #        | 1   |
| 55) Dibenzofuran              | 15.516 | 168  | 1861925  | 43.55 | ng    |          | 99  |
| 56) 4-Nitrophenol             | 15.304 | 139  | 446585   | 80.82 | ng    | #        | 48  |
| 57) 2,4-Dinitrotoluene        | 15.451 | 165  | 465902   | 45.78 | ng    | #        | 76  |
| 58) Fluorene                  | 16.157 | 166  | 1507741  | 43.71 | ng    |          | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.745 | 232  | 470910   | 44.57 | ng    |          | 91  |
| 60) Diethylphthalate          | 15.893 | 149  | 1509737  | 41.67 | ng    |          | 98  |
| 61) 4-Chlorophenyl-phenyle... | 16.134 | 204  | 879166   | 42.15 | ng    |          | 94  |
| 62) 4-Nitroaniline            | 16.151 | 138  | 284325   | 34.72 | ng    | #        | 68  |
| 63) Azobenzene                | 16.422 | 77   | 1432536  | 42.06 | ng    |          | 87  |
| 65) 4,6-Dinitro-2-methylph... | 16.216 | 198  | 235470   | 47.09 | ng    |          | 92  |
| 66) n-Nitrosodiphenylamine    | 16.340 | 169  | 1316693  | 46.63 | ng    |          | 98  |
| 67) 4-Bromophenyl-phenylether | 17.022 | 248  | 563360   | 44.36 | ng    |          | 96  |
| 68) Hexachlorobenzene         | 17.187 | 284  | 625191   | 42.78 | ng    |          | 95  |
| 69) Atrazine                  | 17.263 | 200  | 415800   | 37.76 | ng    |          | 97  |
| 70) Pentachlorophenol         | 17.510 | 266  | 713797   | 98.89 | ng    |          | 100 |
| 71) Phenanthrene              | 17.887 | 178  | 2311010  | 43.84 | ng    |          | 99  |
| 72) Anthracene                | 17.975 | 178  | 2334705  | 45.86 | ng    |          | 99  |
| 73) Carbazole                 | 18.216 | 167  | 1973080  | 43.56 | ng    |          | 99  |
| 74) Di-n-butylphthalate       | 18.722 | 149  | 2400815  | 43.42 | ng    | #        | 98  |
| 75) Fluoranthene              | 19.798 | 202  | 2666368  | 41.17 | ng    |          | 98  |
| 77) Benzidine                 | 19.933 | 184  | 416580   | 22.41 | ng    |          | 100 |
| 78) Pyrene                    | 20.145 | 202  | 2644430  | 50.89 | ng    |          | 98  |
| 80) Butylbenzylphthalate      | 20.945 | 149  | 940813   | 49.42 | ng    | #        | 81  |
| 81) Benzo(a)anthracene        | 21.839 | 228  | 2293718  | 44.34 | ng    |          | 98  |
| 82) 3,3'-Dichlorobenzidine    | 21.739 | 252  | 421547   | 23.27 | ng    | #        | 97  |
| 83) Chrysene                  | 21.892 | 228  | 2187258  | 44.60 | ng    |          | 98  |
| 84) Bis(2-ethylhexyl)phtha... | 21.698 | 149  | 1355545  | 49.75 | ng    |          | 98  |
| 85) Di-n-octyl phthalate      | 22.663 | 149  | 2091097  | 47.28 | ng    | #        | 92  |
| 87) Indeno(1,2,3-cd)pyrene    | 27.115 | 276  | 2244076  | 48.55 | ng    | #        | 92  |
| 88) Benzo(b)fluoranthene      | 23.639 | 252  | 2036885  | 45.33 | ng    | #        | 97  |
| 89) Benzo(k)fluoranthene      | 23.692 | 252  | 2029758  | 47.33 | ng    | #        | 97  |
| 90) Benzo(a)pyrene            | 24.316 | 252  | 1764472  | 44.04 | ng    | #        | 97  |
| 91) Dibenzo(a,h)anthracene    | 27.115 | 278  | 1894241  | 49.03 | ng    | #        | 94  |
| 92) Benzo(g,h,i)perylene      | 27.945 | 276  | 1870475  | 52.23 | ng    | #        | 91  |

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

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