

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM031221\  
 Data File : BM029115.D  
 Acq On : 12 Mar 2021 17:29  
 Operator : CG/JU  
 Sample : M1649-06MSD  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SP-1-3MSD

Manual Integrations  
 APPROVED

mohammad

3/15/2021 11:32:02 AM

Quant Time: Mar 12 18:08:38 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM022321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 12 12:30:15 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.622  | 152  | 9442     | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.410 | 136  | 37550    | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.292 | 164  | 20967    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.045 | 188  | 41220    | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.221 | 240  | 36437    | 20.00  | ng    | # 0.00   |
| 86) Perylene-d12              | 23.362 | 264  | 34693    | 20.00  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.198  | 112  | 68224    | 119.77 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.822  | 99   | 81812    | 108.73 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.798  | 82   | 53684    | 77.13  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.798 | 330  | 26563    | 106.89 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.904 | 172  | 114881   | 72.94  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.668 | 244  | 138413   | 70.14  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.052  | 88   | 8024     | 37.46  | ng    | # 55     |
| 3) Pyridine                   | 3.463  | 79   | 22492    | 39.79  | ng    | # 30     |
| 4) n-Nitrosodimethylamine     | 3.387  | 42   | 17486    | 55.37  | ng    | # 42     |
| 6) Aniline                    | 6.957  | 93   | 21026    | 26.13  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.187  | 128  | 27821    | 41.12  | ng    | 95       |
| 9) Benzaldehyde               | 6.775  | 77   | 20975    | 51.15  | ng    | 84       |
| 10) Phenol                    | 6.845  | 94   | 33675    | 45.04  | ng    | 94       |
| 11) bis(2-Chloroethyl)ether   | 7.063  | 93   | 23150    | 40.81  | ng    | 91       |
| 12) 1,3-Dichlorobenzene       | 7.504  | 146  | 30451    | 41.27  | ng    | # 94     |
| 13) 1,4-Dichlorobenzene       | 7.657  | 146  | 30903    | 41.29  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.969  | 146  | 29746    | 41.31  | ng    | 97       |
| 15) Benzyl Alcohol            | 7.886  | 79   | 23664    | 43.98  | ng    | # 89     |
| 16) 2,2'-oxybis(1-Chloropr... | 8.163  | 45   | 40334    | 46.18  | ng    | 69       |
| 17) 2-Methylphenol            | 8.092  | 107  | 21960    | 43.25  | ng    | # 92     |
| 18) Hexachloroethane          | 8.681  | 117  | 11760    | 43.25  | ng    | 95       |
| 19) n-Nitroso-di-n-propyla... | 8.439  | 70   | 18652    | 42.14  | ng    | # 52     |
| 20) 3+4-Methylphenols         | 8.428  | 107  | 29508    | 43.20  | ng    | 94       |
| 22) Acetophenone              | 8.463  | 105  | 40154    | 43.85  | ng    | # 85     |
| 24) Nitrobenzene              | 8.839  | 77   | 29358    | 41.49  | ng    | # 86     |
| 25) Isophorone                | 9.357  | 82   | 49369    | 40.31  | ng    | 96       |
| 26) 2-Nitrophenol             | 9.545  | 139  | 14910    | 41.71  | ng    | 88       |
| 27) 2,4-Dimethylphenol        | 9.616  | 122  | 23717    | 44.22  | ng    | 94       |
| 28) bis(2-Chloroethoxy)met... | 9.845  | 93   | 29690    | 42.67  | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.080 | 162  | 25252    | 41.15  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.275 | 180  | 27175    | 40.39  | ng    | 97       |
| 31) Naphthalene               | 10.463 | 128  | 80904    | 39.08  | ng    | 99       |
| 32) Benzoic acid              | 9.769  | 122  | 9027m    | 23.48  | ng    |          |
| 33) 4-Chloroaniline           | 10.598 | 127  | 16712    | 20.08  | ng    | 93       |
| 34) Hexachlorobutadiene       | 10.727 | 225  | 16563    | 41.05  | ng    | 98       |
| 35) Caprolactam               | 11.416 | 113  | 7217     | 42.99  | ng    | # 50     |
| 36) 4-Chloro-3-methylphenol   | 11.745 | 107  | 25328    | 40.95  | ng    | 94       |
| 37) 2-Methylnaphthalene       | 12.086 | 142  | 56479    | 38.77  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.310 | 142  | 51919    | 37.63  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.463 | 216  | 27812    | 42.43  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.422 | 237  | 25028    | 100.15 | ng    | 100      |
| 43) 2,4,6-Trichlorophenol     | 12.721 | 196  | 18794    | 40.90  | ng    | 98       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM031221\  
 Data File : BM029115.D  
 Acq On : 12 Mar 2021 17:29  
 Operator : CG/JU  
 Sample : M1649-06MSD  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SP-1-3MSD

Manual Integrations  
 APPROVED

mohammad

3/15/2021 11:32:02 AM

Quant Time: Mar 12 18:08:38 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM022321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 12 12:30:15 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.804 | 196  | 20099    | 40.75 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 13.116 | 154  | 70131    | 41.71 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.163 | 162  | 54762    | 39.89 | ng    | 97       |
| 48) 2-Nitroaniline            | 13.392 | 65   | 16696    | 45.22 | ng    | 90       |
| 49) Acenaphthylene            | 14.016 | 152  | 91114    | 43.22 | ng    | 99       |
| 50) Dimethylphthalate         | 13.768 | 163  | 69847    | 43.96 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 13.898 | 165  | 14308    | 38.62 | ng    | 93       |
| 52) Acenaphthene              | 14.357 | 154  | 51872    | 40.12 | ng    | 97       |
| 53) 3-Nitroaniline            | 14.233 | 138  | 8703     | 24.11 | ng    | 85       |
| 54) 2,4-Dinitrophenol         | 14.463 | 184  | 13340    | 70.40 | ng    | 97       |
| 55) Dibenzofuran              | 14.698 | 168  | 80386    | 39.60 | ng    | 97       |
| 56) 4-Nitrophenol             | 14.568 | 139  | 22698    | 76.66 | ng    | # 86     |
| 57) 2,4-Dinitrotoluene        | 14.698 | 165  | 19898    | 41.12 | ng    | # 81     |
| 58) Fluorene                  | 15.351 | 166  | 64475    | 39.63 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 14.939 | 232  | 15914m   | 40.15 | ng    |          |
| 60) Diethylphthalate          | 15.133 | 149  | 66276    | 41.46 | ng    | 97       |
| 61) 4-Chlorophenyl-phenyle... | 15.345 | 204  | 31310    | 40.33 | ng    | 93       |
| 62) 4-Nitroaniline            | 15.404 | 138  | 13260    | 38.00 | ng    | 98       |
| 63) Azobenzene                | 15.639 | 77   | 60361    | 40.92 | ng    | # 84     |
| 65) 4,6-Dinitro-2-methylph... | 15.468 | 198  | 9217     | 31.75 | ng    | # 76     |
| 66) n-Nitrosodiphenylamine    | 15.568 | 169  | 53547    | 37.98 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.239 | 248  | 17801    | 38.49 | ng    | # 91     |
| 68) Hexachlorobenzene         | 16.345 | 284  | 20101    | 39.00 | ng    | # 91     |
| 69) Atrazine                  | 16.527 | 200  | 19191    | 43.74 | ng    | 96       |
| 70) Pentachlorophenol         | 16.704 | 266  | 21716    | 78.77 | ng    | 95       |
| 71) Phenanthrene              | 17.086 | 178  | 94066    | 38.32 | ng    | 99       |
| 72) Anthracene                | 17.174 | 178  | 96688    | 39.76 | ng    | 100      |
| 73) Carbazole                 | 17.456 | 167  | 86756    | 37.19 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.009 | 149  | 107980   | 40.71 | ng    | 99       |
| 75) Fluoranthene              | 19.103 | 202  | 102810   | 38.11 | ng    | 99       |
| 77) Benzidine                 | 19.303 | 184  | 61300    | 51.05 | ng    | 99       |
| 78) Pyrene                    | 19.462 | 202  | 104314   | 38.97 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.368 | 149  | 46752    | 40.57 | ng    | 94       |
| 81) Benzo(a)anthracene        | 21.209 | 228  | 99647    | 39.41 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.150 | 252  | 12250    | 14.02 | ng    | # 97     |
| 83) Chrysene                  | 21.256 | 228  | 95072    | 38.58 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.133 | 149  | 65701    | 39.62 | ng    | # 95     |
| 85) Di-n-octyl phthalate      | 21.986 | 149  | 112120   | 39.85 | ng    | # 88     |
| 87) Indeno(1,2,3-cd)pyrene    | 25.497 | 276  | 106978   | 40.86 | ng    | # 92     |
| 88) Benzo(b)fluoranthene      | 22.727 | 252  | 93634    | 38.21 | ng    | # 97     |
| 89) Benzo(k)fluoranthene      | 22.768 | 252  | 90462    | 38.86 | ng    | # 98     |
| 90) Benzo(a)pyrene            | 23.268 | 252  | 82959    | 37.10 | ng    | # 98     |
| 91) Dibenzo(a,h)anthracene    | 25.503 | 278  | 91421    | 40.18 | ng    | # 95     |
| 92) Benzo(g,h,i)perylene      | 26.144 | 276  | 89057    | 40.54 | ng    | # 94     |

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

