

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\  
 Data File : BF114193.D  
 Acq On : 12 May 2019 15:38  
 Operator : JU/SJ  
 Sample : K2766-13MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P026-SS008-0206-01MSD

Manual Integrations  
 APPROVED

Sohil  
 5/13/2019 8:37:22 PM

Quant Time: May 13 08:35:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 10 15:56:46 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 330177   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 1242483  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.89  | 164  | 562070   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.37 | 188  | 969475   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.02 | 240  | 602310   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.49 | 264  | 597232   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 2187840 | 106.63 | ng | 0.01 |
| 7) Phenol-d6             | 6.51  | 99  | 2880318 | 118.70 | ng | 0.02 |
| 23) Nitrobenzene-d5      | 7.42  | 82  | 1864703 | 84.22  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.68 | 330 | 597574  | 102.84 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.21  | 172 | 2750281 | 74.02  | ng | 0.00 |
| 79) Terphenyl-d14        | 12.96 | 244 | 2154236 | 73.73  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.65 | 88  | 354936  | 31.473 | ng | 98     |
| 3) Pyridine                    | 3.46 | 79  | 202272  | 6.510  | ng | 95     |
| 4) n-Nitrosodimethylamine      | 3.35 | 42  | 537153  | 35.849 | ng | 94     |
| 8) 2-Chlorophenol              | 6.65 | 128 | 902812  | 41.218 | ng | 94     |
| 9) Benzaldehyde                | 6.40 | 77  | 309971  | 18.246 | ng | 97     |
| 10) Phenol                     | 6.52 | 94  | 1109117 | 38.853 | ng | 83     |
| 11) bis(2-Chloroethyl)ether    | 6.59 | 93  | 924663  | 42.666 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 6.80 | 146 | 915098  | 37.219 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 6.87 | 146 | 934607  | 37.723 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 7.03 | 146 | 853854  | 37.723 | ng | 99     |
| 15) Benzyl Alcohol             | 7.00 | 79  | 757427  | 40.020 | ng | 99     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45  | 1606136 | 38.222 | ng | 92     |
| 17) 2-Methylphenol             | 7.12 | 107 | 706978  | 39.293 | ng | # 92   |
| 18) Hexachloroethane           | 7.37 | 117 | 324131  | 34.854 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70  | 618068  | 40.183 | ng | 96     |
| 20) 3+4-Methylphenols          | 7.27 | 107 | 827681  | 39.815 | ng | # 87   |
| 22) Acetophenone               | 7.26 | 105 | 1192765 | 43.334 | ng | # 92   |
| 24) Nitrobenzene               | 7.44 | 77  | 968182  | 42.936 | ng | 96     |
| 25) Isophorone                 | 7.68 | 82  | 1715591 | 41.782 | ng | 99     |
| 26) 2-Nitrophenol              | 7.75 | 139 | 508325  | 46.464 | ng | 96     |
| 27) 2,4-Dimethylphenol         | 7.80 | 122 | 732555  | 42.634 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.88 | 93  | 1125731 | 42.255 | ng | 100    |
| 29) 2,4-Dichlorophenol         | 8.00 | 162 | 723469  | 42.284 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 8.08 | 180 | 766068  | 39.375 | ng | 99     |
| 31) Naphthalene                | 8.16 | 128 | 2417354 | 41.651 | ng | 99     |
| 32) Benzoic acid               | 7.93 | 122 | 531189  | 44.036 | ng | 97     |
| 34) Hexachlorobutadiene        | 8.27 | 225 | 421787  | 38.101 | ng | 98     |
| 35) Caprolactam                | 8.59 | 113 | 187613m | 33.628 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.69 | 107 | 740448  | 42.994 | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.85 | 142 | 1591724 | 42.507 | ng | 97     |
| 38) 1-Methylnaphthalene        | 8.95 | 142 | 1501935 | 42.592 | ng | 100    |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.02 | 216 | 728318  | 42.776 | ng | 100    |
| 41) Hexachlorocyclopentadiene  | 9.00 | 237 | 198959  | 28.051 | ng | 99     |
| 43) 2,4,6-Trichlorophenol      | 9.13 | 196 | 490502  | 41.883 | ng | 99     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\  
 Data File : BF114193.D  
 Acq On : 12 May 2019 15:38  
 Operator : JU/SJ  
 Sample : K2766-13MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P026-SS008-0206-01MSD

Manual Integrations  
 APPROVED

Sohil  
 5/13/2019 8:37:22 PM

Quant Time: May 13 08:35:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 10 15:56:46 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol      | 9.17  | 196  | 500494   | 41.672 | ng    | 95       |
| 46) 1,1'-Biphenyl              | 9.31  | 154  | 1910887  | 42.083 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 9.34  | 162  | 1464666  | 40.080 | ng    | 99       |
| 48) 2-Nitroaniline             | 9.43  | 65   | 522741   | 40.335 | ng    | 98       |
| 49) Acenaphthylene             | 9.75  | 152  | 2267624  | 40.799 | ng    | 99       |
| 50) Dimethylphthalate          | 9.62  | 163  | 2149519  | 52.095 | ng    | # 95     |
| 51) 2,6-Dinitrotoluene         | 9.67  | 165  | 390392   | 42.658 | ng    | 95       |
| 52) Acenaphthene               | 9.93  | 154  | 1349764  | 39.575 | ng    | 99       |
| 53) 3-Nitroaniline             | 9.84  | 138  | 114337   | 10.064 | ng    | 99       |
| 54) 2,4-Dinitrophenol          | 9.96  | 184  | 243160   | 55.130 | ng    | 91       |
| 55) Dibenzofuran               | 10.10 | 168  | 1961076  | 39.212 | ng    | 98       |
| 56) 4-Nitrophenol              | 10.02 | 139  | 536084   | 66.727 | ng    | 92       |
| 57) 2,4-Dinitrotoluene         | 10.08 | 165  | 487922   | 39.280 | ng    | 96       |
| 58) Fluorene                   | 10.44 | 166  | 1504160  | 38.937 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.22 | 232  | 414420   | 39.990 | ng    | # 99     |
| 60) Diethylphthalate           | 10.31 | 149  | 1615122  | 38.525 | ng    | 100      |
| 61) 4-Chlorophenyl-phenylether | 10.43 | 204  | 733186   | 38.643 | ng    | 98       |
| 62) 4-Nitroaniline             | 10.45 | 138  | 140451   | 11.765 | ng    | 95       |
| 63) Azobenzene                 | 10.59 | 77   | 1575989  | 38.836 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 10.49 | 198  | 158673   | 34.061 | ng    | 97       |
| 66) n-Nitrosodiphenylamine     | 10.55 | 169  | 1315276  | 44.701 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether  | 10.92 | 248  | 460468   | 43.138 | ng    | 99       |
| 68) Hexachlorobenzene          | 10.99 | 284  | 514794   | 43.594 | ng    | 96       |
| 69) Atrazine                   | 11.07 | 200  | 338265   | 36.942 | ng    | 98       |
| 70) Pentachlorophenol          | 11.19 | 266  | 484445   | 86.542 | ng    | 97       |
| 71) Phenanthrene               | 11.40 | 178  | 2030646  | 43.053 | ng    | 100      |
| 72) Anthracene                 | 11.45 | 178  | 2009545  | 42.418 | ng    | 100      |
| 73) Carbazole                  | 11.60 | 167  | 1714553  | 37.953 | ng    | 100      |
| 74) Di-n-butylphthalate        | 11.93 | 149  | 2213318  | 42.526 | ng    | 99       |
| 75) Fluoranthene               | 12.59 | 202  | 2004967  | 39.474 | ng    | 97       |
| 78) Pyrene                     | 12.82 | 202  | 2080477  | 42.938 | ng    | 99       |
| 80) Butylbenzylphthalate       | 13.43 | 149  | 815235   | 39.974 | ng    | 93       |
| 81) Benzo(a)anthracene         | 14.01 | 228  | 1664581  | 42.729 | ng    | 99       |
| 83) Chrysene                   | 14.04 | 228  | 1400244  | 36.666 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 13.99 | 149  | 1207931  | 45.287 | ng    | 100      |
| 85) Di-n-octyl phthalate       | 14.60 | 149  | 2063353  | 47.720 | ng    | 100      |
| 86) Indeno(1,2,3-cd)pyrene     | 16.97 | 276  | 1374065  | 40.712 | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 15.06 | 252  | 1662036  | 43.438 | ng    | 98       |
| 89) Benzo(k)fluoranthene       | 15.09 | 252  | 1495729  | 42.556 | ng    | 99       |
| 90) Benzo(a)pyrene             | 15.43 | 252  | 1454368  | 43.190 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 16.98 | 278  | 1148094  | 41.031 | ng    | 98       |
| 92) Benzo(g,h,i)perylene       | 17.42 | 276  | 1138446  | 40.599 | ng    | 98       |

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

