

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112221\  
 Data File : BN017542.D  
 Acq On : 22 Nov 2021 12:14  
 Operator : CG/JU  
 Sample : SSTD04048  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD040248

Quant Time: Nov 22 14:52:41 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN112221.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 22 14:49:39 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/22/2021  
 Supervised By :mohammad ahmed 11/24/2021

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.846  | 152  | 260548   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.640 | 136  | 1152989  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.481 | 164  | 702697   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.222 | 188  | 1362758  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.410 | 240  | 915799   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.774 | 264  | 778582   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.305  | 96   | 115073   | 15.998 | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.705  | 84   | 795331   | 41.282 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.011  | 99   | 986621   | 40.751 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.175  | 67   | 607576   | 42.280 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.375  | 132  | 758796   | 39.853 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.552  | 113  | 786640   | 39.801 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.999  | 128  | 379645   | 42.517 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.722  | 143  | 390344   | 39.487 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.263 | 165  | 720055   | 39.759 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.775 | 131  | 1032926  | 38.294 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.892 | 166  | 2116694  | 40.237 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.175 | 160  | 2688230  | 40.537 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.675 | 143  | 376571   | 36.279 | ng/u1  | 0.01     |
| 60) Fluorene-d10              | 15.475 | 176  | 1688539  | 37.580 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.592 | 200  | 296816   | 33.636 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.322 | 188  | 2545811  | 38.693 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.616 | 212  | 2592086  | 48.261 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.627 | 264  | 1732807  | 41.876 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.340  | 88   | 116578   | 16.389 | ng/uL  | 95       |
| 5) Pyridine                   | 3.728  | 79   | 796394   | 40.847 | ng/u1  | 91       |
| 6) Benzaldehyde               | 6.981  | 77   | 627179   | 43.477 | ng/u1  | 92       |
| 8) Phenol                     | 7.034  | 94   | 997279   | 40.718 | ng/u1  | 93       |
| 10) Bis(2-Chloroethyl)ether   | 7.269  | 93   | 816847   | 42.444 | ng/u1  | 98       |
| 12) 2-Chlorophenol            | 7.410  | 128  | 775352   | 39.379 | ng/u1  | 97       |
| 13) 2-Methylphenol            | 8.287  | 108  | 763699   | 40.984 | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.381  | 45   | 1095045  | 38.785 | ng/u1  | 96       |
| 16) Acetophenone              | 8.663  | 105  | 1167641  | 39.863 | ng/u1  | 93       |
| 17) N-Nitroso-di-n-propyla... | 8.663  | 70   | 621412   | 42.261 | ng/u1  | 94       |
| 18) 4-Methylphenol            | 8.616  | 108  | 816092   | 39.642 | ng/u1  | 99       |
| 19) Hexachloroethane          | 8.928  | 117  | 322838   | 42.575 | ng/u1  | 94       |
| 22) Nitrobenzene              | 9.040  | 77   | 922250   | 45.931 | ng/u1  | 94       |
| 23) Isophorone                | 9.569  | 82   | 1777532  | 43.602 | ng/u1  | 96       |
| 25) 2-Nitrophenol             | 9.752  | 139  | 420766   | 39.093 | ng/u1# | 89       |
| 26) 2,4-Dimethylphenol        | 9.816  | 107  | 909803   | 42.179 | ng/u1  | 94       |
| 27) Bis(2-Chloroethoxy)met... | 10.057 | 93   | 1096799  | 42.063 | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.287 | 162  | 704634   | 39.175 | ng/u1  | 98       |
| 30) Naphthalene               | 10.693 | 128  | 2470141  | 39.377 | ng/u1  | 100      |
| 32) 4-Chloroaniline           | 10.799 | 127  | 1044903  | 39.158 | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 10.993 | 225  | 458824   | 41.891 | ng/u1  | 95       |
| 34) Caprolactam               | 11.551 | 113  | 228960m  | 35.377 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.928 | 107  | 823643   | 41.157 | ng/u1  | 95       |
| 36) 2-Methylnaphthalene       | 12.304 | 142  | 1652959  | 38.167 | ng/u1  | 100      |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.522 | 142  | 1668961  | 37.410 | ng/ul  | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.675 | 216  | 821190   | 40.094 | ng/ul# | 95       |
| 40) Hexachlorocyclopentadiene | 12.663 | 237  | 525460   | 40.367 | ng/ul  | 96       |
| 41) 2,4,6-Trichlorophenol     | 12.910 | 196  | 550254   | 41.435 | ng/ul  | 98       |
| 42) 2,4,5-Trichlorophenol     | 12.981 | 196  | 590900   | 39.957 | ng/ul  | 98       |
| 43) 1,1'-Biphenyl             | 13.316 | 154  | 2181482  | 40.096 | ng/ul  | 100      |
| 44) 2-Chloronaphthalene       | 13.357 | 162  | 1666494  | 40.219 | ng/ul  | 95       |
| 45) 2-Nitroaniline            | 13.551 | 65   | 533516   | 47.300 | ng/ul  | 92       |
| 47) Dimethylphthalate         | 13.940 | 163  | 2060059  | 38.992 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.051 | 165  | 434448   | 41.877 | ng/ul  | 91       |
| 50) Acenaphthylene            | 14.204 | 152  | 2668150  | 39.284 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.381 | 138  | 451972   | 37.640 | ng/ul  | 95       |
| 52) Acenaphthene              | 14.545 | 153  | 1712301  | 38.986 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.581 | 184  | 205665   | 30.995 | ng/ul  | 93       |
| 55) 4-Nitrophenol             | 14.687 | 109  | 324029   | 44.237 | ng/ul# | 85       |
| 56) Dibenzofuran              | 14.881 | 168  | 2427984  | 38.719 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 14.839 | 165  | 599631   | 40.078 | ng/ul  | 98       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.104 | 232  | 436738   | 35.775 | ng/ul  | 96       |
| 59) Diethylphthalate          | 15.310 | 149  | 2120436  | 40.249 | ng/ul  | 98       |
| 61) Fluorene                  | 15.528 | 166  | 1759174  | 35.590 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.522 | 204  | 871053   | 35.838 | ng/ul  | 90       |
| 63) 4-Nitroaniline            | 15.545 | 138  | 396281   | 33.399 | ng/ul# | 87       |
| 66) 4,6-Dinitro-2-methylph... | 15.604 | 198  | 295329   | 33.544 | ng/ul# | 88       |
| 67) N-Nitrosodiphenylamine    | 15.734 | 169  | 1651704  | 39.820 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.416 | 248  | 541776   | 37.307 | ng/ul# | 89       |
| 69) Hexachlorobenzene         | 16.539 | 284  | 573488   | 33.936 | ng/ul  | 92       |
| 70) Atrazine                  | 16.686 | 200  | 624018   | 41.000 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 16.875 | 266  | 347767   | 34.279 | ng/ul  | 94       |
| 72) Phenanthrene              | 17.269 | 178  | 2905107  | 38.691 | ng/ul  | 98       |
| 74) Anthracene                | 17.357 | 178  | 2883807  | 37.927 | ng/ul  | 97       |
| 75) 1,2,3,4-Tetrachloroben... | 13.281 | 216  | 856771   | 43.008 | ng/uL  | 97       |
| 76) Pentachlorobenzene        | 14.804 | 250  | 771991   | 38.267 | ng/uL  | 99       |
| 77) Carbazole                 | 17.622 | 167  | 2599555  | 38.723 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.198 | 149  | 3348600  | 42.199 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.280 | 202  | 3149035  | 49.098 | ng/ul  | 100      |
| 82) Pyrene                    | 19.645 | 202  | 3066829  | 46.714 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.551 | 149  | 1266832  | 51.825 | ng/ul  | 92       |
| 84) 3,3'-Dichlorobenzidine    | 21.327 | 252  | 748503   | 36.716 | ng/ul  | 95       |
| 85) Benzo(a)anthracene        | 21.392 | 228  | 2503702  | 41.530 | ng/ul  | 97       |
| 86) Bis(2-ethylhexyl)phtha... | 21.339 | 149  | 1731929  | 46.944 | ng/ul# | 99       |
| 87) Chrysene                  | 21.445 | 228  | 2422467  | 40.769 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.251 | 149  | 2701896  | 47.480 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.063 | 252  | 2211090  | 42.066 | ng/ul  | 95       |
| 91) Benzo(k)fluoranthene      | 23.110 | 252  | 2134138  | 41.741 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 23.674 | 252  | 2106534  | 41.650 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.221 | 276  | 2238450  | 43.385 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.245 | 278  | 1913901  | 43.884 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 26.974 | 276  | 1925336  | 44.567 | ng/ul  | 100      |

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

## Manual Integrations

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