

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN051119\  
 Data File : BN005627.D  
 Acq On : 11 May 2019 15:25  
 Operator : JU/SJ  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 SSTD02011

Manual Integrations  
 APPROVED

mohammad  
 5/13/2019 8:51:44 AM

Quant Time: May 12 00:18:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat May 11 23:17:30 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 247517   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.34 | 136  | 1054640  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 668071   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.97 | 188  | 1522246  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 1185951  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.42 | 264  | 1048643  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.20  | 96  | 30802   | 6.01  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.77  | 99  | 336429  | 17.31 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 187548  | 15.47 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 280782  | 18.87 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 279087  | 18.37 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.72  | 128 | 147479  | 22.72 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.44  | 143 | 167600  | 25.47 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 316072  | 20.95 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 382973  | 24.62 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.63 | 166 | 931247  | 19.20 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.90 | 160 | 1175152 | 19.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.45 | 143 | 139225  | 18.18 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.22 | 176 | 827087  | 20.32 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.36 | 200 | 151915  | 22.19 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.07 | 188 | 1263580 | 19.80 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.39 | 212 | 1324571 | 21.83 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 933006  | 20.36 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Qvalue   |
|--------------------------------|-------|-----|--------|--------|----------|
| 2) 1,4-Dioxane                 | 3.23  | 88  | 33186  | 6.019  | ng/ul 99 |
| 4) Benzaldehyde                | 6.74  | 77  | 234131 | 16.995 | ng/ul 96 |
| 6) Phenol                      | 6.79  | 94  | 343143 | 17.161 | ng/ul 97 |
| 8) Bis(2-Chloroethyl)ether     | 7.02  | 93  | 267322 | 16.696 | ng/ul 91 |
| 10) 2-Chlorophenol             | 7.15  | 128 | 284342 | 18.487 | ng/ul 96 |
| 11) 2-Methylphenol             | 8.02  | 108 | 269654 | 17.997 | ng/ul 98 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.11  | 45  | 375355 | 13.962 | ng/ul 95 |
| 14) Acetophenone               | 8.39  | 105 | 456182 | 18.757 | ng/ul 95 |
| 15) N-Nitroso-di-n-propylamine | 8.38  | 70  | 218562 | 16.800 | ng/ul 91 |
| 16) 4-Methylphenol             | 8.35  | 108 | 293971 | 18.167 | ng/ul 94 |
| 17) Hexachloroethane           | 8.63  | 117 | 122226 | 18.300 | ng/ul 89 |
| 20) Nitrobenzene               | 8.77  | 77  | 331629 | 18.564 | ng/ul 91 |
| 21) Isophorone                 | 9.29  | 82  | 624226 | 17.648 | ng/ul 96 |
| 23) 2-Nitrophenol              | 9.47  | 139 | 171889 | 23.051 | ng/ul 97 |
| 24) 2,4-Dimethylphenol         | 9.53  | 107 | 330315 | 17.691 | ng/ul 99 |
| 25) Bis(2-Chloroethoxy)methane | 9.77  | 93  | 378931 | 17.047 | ng/ul 99 |
| 27) 2,4-Dichlorophenol         | 10.00 | 162 | 307174 | 20.634 | ng/ul 96 |
| 28) Naphthalene                | 10.39 | 128 | 961089 | 19.603 | ng/ul 99 |
| 30) 4-Chloroaniline            | 10.51 | 127 | 392255 | 24.756 | ng/ul 97 |
| 31) Hexachlorobutadiene        | 10.68 | 225 | 225007 | 21.403 | ng/ul 98 |
| 32) Caprolactam                | 11.26 | 113 | 98311m | 21.826 | ng/ul    |
| 33) 4-Chloro-3-methylphenol    | 11.65 | 107 | 323633 | 19.306 | ng/ul 95 |
| 34) 2-Methylnaphthalene        | 12.01 | 142 | 714339 | 19.898 | ng/ul 96 |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.39 | 216  | 428530   | 20.727 | ng/ul  | 96       |
| 37) Hexachlorocyclopentadiene  | 12.36 | 237  | 231732   | 16.439 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 12.64 | 196  | 257888   | 20.686 | ng/ul  | 94       |
| 39) 2,4,5-Trichlorophenol      | 12.72 | 196  | 274314   | 20.476 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.04 | 154  | 954854   | 19.182 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.08 | 162  | 748690   | 19.556 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.30 | 65   | 208399   | 20.523 | ng/ul  | 86       |
| 44) Dimethylphthalate          | 13.68 | 163  | 922094   | 19.082 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.80 | 165  | 195362   | 23.414 | ng/ul  | 91       |
| 47) Acenaphthylene             | 13.93 | 152  | 1135533  | 19.399 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.13 | 138  | 192408   | 24.805 | ng/ul  | 89       |
| 49) Acenaphthene               | 14.28 | 153  | 773444   | 19.354 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.36 | 184  | 76743    | 18.882 | ng/ul# | 84       |
| 52) 4-Nitrophenol              | 14.46 | 109  | 121402   | 17.466 | ng/ul  | 97       |
| 53) Dibenzofuran               | 14.62 | 168  | 1142055  | 19.849 | ng/ul  | 94       |
| 54) 2,4-Dinitrotoluene         | 14.61 | 165  | 285602   | 23.744 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 244239   | 21.915 | ng/ul  | 91       |
| 56) Diethylphthalate           | 15.06 | 149  | 928432   | 19.161 | ng/ul  | 99       |
| 58) Fluorene                   | 15.27 | 166  | 907651   | 20.217 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.27 | 204  | 493076   | 20.703 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.30 | 138  | 209971   | 21.713 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.38 | 198  | 152009   | 20.861 | ng/ul# | 90       |
| 64) N-Nitrosodiphenylamine     | 15.49 | 169  | 798041   | 19.155 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.17 | 248  | 319593   | 20.840 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.28 | 284  | 344605   | 21.103 | ng/ul  | 96       |
| 67) Atrazine                   | 16.45 | 200  | 310969   | 20.049 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.63 | 266  | 156717   | 16.390 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.02 | 178  | 1451664  | 19.581 | ng/ul  | 100      |
| 71) Anthracene                 | 17.11 | 178  | 1471501  | 19.484 | ng/ul  | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.00 | 216  | 433661   | 19.504 | ng/ul  | 98       |
| 73) Pentachlorobenzene         | 14.54 | 250  | 416098   | 20.793 | ng/ul  | 97       |
| 74) Carbazole                  | 17.38 | 167  | 1276636  | 19.678 | ng/ul  | 99       |
| 75) Di-n-butylphthalate        | 17.96 | 149  | 1573028  | 19.325 | ng/ul  | 100      |
| 76) Fluoranthene               | 19.05 | 202  | 1652284  | 20.093 | ng/ul# | 94       |
| 79) Pyrene                     | 19.42 | 202  | 1658145  | 21.715 | ng/ul# | 93       |
| 80) Butylbenzylphthalate       | 20.34 | 149  | 674810   | 22.321 | ng/ul  | 95       |
| 81) 3,3'-Dichlorobenzidine     | 21.13 | 252  | 461816   | 19.490 | ng/ul# | 98       |
| 82) Benzo(a)anthracene         | 21.19 | 228  | 1447337  | 19.617 | ng/ul  | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 21.14 | 149  | 968559   | 20.806 | ng/ul# | 95       |
| 84) Chrysene                   | 21.25 | 228  | 1324180  | 19.339 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 22.02 | 149  | 1548231  | 24.106 | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.76 | 252  | 1195400  | 20.279 | ng/ul# | 97       |
| 88) Benzo(k)fluoranthene       | 22.80 | 252  | 1170367  | 20.789 | ng/ul# | 97       |
| 90) Benzo(a)pyrene             | 23.32 | 252  | 1121118  | 20.234 | ng/ul# | 98       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.60 | 276  | 1264686  | 20.645 | ng/ul  | 95       |
| 92) Dibenzo(a,h)anthracene     | 25.61 | 278  | 1077175  | 20.720 | ng/ul# | 97       |
| 93) Benzo(g,h,i)perylene       | 26.27 | 276  | 1062869  | 20.983 | ng/ul# | 94       |

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

