

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\  
 Data File : BN009177.D  
 Acq On : 26 Dec 2019 17:46  
 Operator : JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD02062

Manual Integrations  
 APPROVED

mohammad  
 12/27/2019 3:20:05 PM

Quant Time: Dec 27 01:24:24 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN122419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 25 01:06:45 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 269634   | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.28 | 136  | 1208419  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.15 | 164  | 772584   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.90 | 188  | 1646817  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.11 | 240  | 1454270  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.25 | 264  | 1294232  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 44011   | 7.46  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.71  | 99  | 488938  | 19.08 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.87  | 67  | 310897  | 18.93 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.06  | 132 | 370282  | 20.17 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.23  | 113 | 391142  | 18.90 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.66  | 128 | 190826  | 20.97 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.38  | 143 | 216261  | 21.29 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.90  | 165 | 400502  | 20.88 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.42 | 131 | 510431  | 22.09 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.57 | 166 | 1163617 | 20.05 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.84 | 160 | 1376152 | 20.23 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.37 | 143 | 228220  | 19.78 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.15 | 176 | 995083  | 19.69 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.29 | 200 | 165652  | 16.12 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.00 | 188 | 1572451 | 20.53 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.30 | 212 | 1752729 | 23.10 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.12 | 264 | 1385027 | 21.24 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.16  | 88  | 47813   | 7.466  | ng/uL 92  |
| 4) Benzaldehyde                | 6.68  | 77  | 255790  | 15.916 | ng/ul 98  |
| 6) Phenol                      | 6.74  | 94  | 534444  | 20.160 | ng/ul 99  |
| 8) Bis(2-Chloroethyl)ether     | 6.96  | 93  | 404528  | 19.845 | ng/ul 97  |
| 10) 2-Chlorophenol             | 7.09  | 128 | 397100  | 21.205 | ng/ul 98  |
| 11) 2-Methylphenol             | 7.96  | 108 | 389481  | 19.554 | ng/ul 91  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.05  | 45  | 838990  | 19.409 | ng/ul 98  |
| 14) Acetophenone               | 8.33  | 105 | 649851  | 20.494 | ng/ul 96  |
| 15) N-Nitroso-di-n-propylamine | 8.32  | 70  | 345050  | 19.627 | ng/ul 99  |
| 16) 4-Methylphenol             | 8.29  | 108 | 441943  | 20.189 | ng/ul 95  |
| 17) Hexachloroethane           | 8.58  | 117 | 164367  | 20.754 | ng/ul 93  |
| 20) Nitrobenzene               | 8.70  | 77  | 500206  | 20.235 | ng/ul 98  |
| 21) Isophorone                 | 9.23  | 82  | 958435  | 20.142 | ng/ul 98  |
| 23) 2-Nitrophenol              | 9.40  | 139 | 239928  | 22.063 | ng/ul 99  |
| 24) 2,4-Dimethylphenol         | 9.48  | 107 | 486688  | 20.867 | ng/ul 99  |
| 25) Bis(2-Chloroethoxy)methane | 9.71  | 93  | 576049  | 19.787 | ng/ul 100 |
| 27) 2,4-Dichlorophenol         | 9.93  | 162 | 401819  | 21.332 | ng/ul 98  |
| 28) Naphthalene                | 10.33 | 128 | 1349209 | 20.920 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.44 | 127 | 541724  | 23.340 | ng/ul 98  |
| 31) Hexachlorobutadiene        | 10.62 | 225 | 251167  | 21.188 | ng/ul 97  |
| 32) Caprolactam                | 11.21 | 113 | 133692m | 18.122 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.57 | 107 | 475160  | 20.433 | ng/ul 100 |
| 34) 2-Methylnaphthalene        | 11.95 | 142 | 987826  | 21.246 | ng/ul 97  |

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 Quant Title : SVOA CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.32 | 216  | 504093   | 23.124 | ng/ul | 95       |
| 37) Hexachlorocyclopentadiene  | 12.30 | 237  | 229777   | 17.153 | ng/ul | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.57 | 196  | 322752   | 22.141 | ng/ul | 96       |
| 39) 2,4,5-Trichlorophenol      | 12.65 | 196  | 354944   | 22.773 | ng/ul | 97       |
| 40) 1,1'-Biphenyl              | 12.98 | 154  | 1254894  | 21.925 | ng/ul | 99       |
| 41) 2-Chloronaphthalene        | 13.02 | 162  | 963661   | 21.571 | ng/ul | 96       |
| 42) 2-Nitroaniline             | 13.23 | 65   | 359300   | 21.736 | ng/ul | 95       |
| 44) Dimethylphthalate          | 13.62 | 163  | 1166945  | 19.665 | ng/ul | 99       |
| 45) 2,6-Dinitrotoluene         | 13.73 | 165  | 250300   | 20.975 | ng/ul | 98       |
| 47) Acenaphthylene             | 13.87 | 152  | 1511492  | 20.699 | ng/ul | 99       |
| 48) 3-Nitroaniline             | 14.06 | 138  | 264751   | 22.661 | ng/ul | 98       |
| 49) Acenaphthene               | 14.22 | 153  | 1040487  | 21.237 | ng/ul | 99       |
| 50) 2,4-Dinitrophenol          | 14.27 | 184  | 115233   | 15.460 | ng/ul | 98       |
| 52) 4-Nitrophenol              | 14.39 | 109  | 187916   | 20.416 | ng/ul | 97       |
| 53) Dibenzofuran               | 14.56 | 168  | 1492294  | 21.695 | ng/ul | 97       |
| 54) 2,4-Dinitrotoluene         | 14.53 | 165  | 361890   | 20.732 | ng/ul | 90       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.79 | 232  | 304394   | 21.423 | ng/ul | 97       |
| 56) Diethylphthalate           | 15.00 | 149  | 1218960  | 19.017 | ng/ul | 99       |
| 58) Fluorene                   | 15.21 | 166  | 1204969  | 20.964 | ng/ul | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.21 | 204  | 598639   | 20.780 | ng/ul | 98       |
| 60) 4-Nitroaniline             | 15.23 | 138  | 300725   | 21.665 | ng/ul | 93       |
| 63) 4,6-Dinitro-2-methylphenol | 15.30 | 198  | 183805   | 16.977 | ng/ul | 95       |
| 64) N-Nitrosodiphenylamine     | 15.43 | 169  | 1052609  | 22.215 | ng/ul | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.10 | 248  | 362742   | 21.858 | ng/ul | 96       |
| 66) Hexachlorobenzene          | 16.22 | 284  | 392567   | 21.226 | ng/ul | 97       |
| 67) Atrazine                   | 16.39 | 200  | 370071   | 20.518 | ng/ul | 98       |
| 68) Pentachlorophenol          | 16.56 | 266  | 251231   | 21.687 | ng/ul | 94       |
| 69) Phenanthrene               | 16.95 | 178  | 1912586  | 21.064 | ng/ul | 99       |
| 71) Anthracene                 | 17.03 | 178  | 1986659  | 21.266 | ng/ul | 98       |
| 72) 1,2,3,4-Tetrachlorobenzene | 12.94 | 216  | 484693   | 22.506 | ng/uL | 99       |
| 73) Pentachlorobenzene         | 14.48 | 250  | 479130   | 22.508 | ng/uL | 98       |
| 74) Carbazole                  | 17.31 | 167  | 1761005  | 21.815 | ng/ul | 99       |
| 75) Di-n-butylphthalate        | 17.89 | 149  | 2193742  | 20.644 | ng/ul | 99       |
| 76) Fluoranthene               | 18.97 | 202  | 2244631  | 21.404 | ng/ul | 98       |
| 79) Pvrene                     | 19.33 | 202  | 2289760  | 22.702 | ng/ul | 99       |
| 80) Butylbenzylphthalate       | 20.26 | 149  | 1050488  | 23.680 | ng/ul | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.03 | 252  | 601023   | 17.955 | ng/ul | 89       |
| 82) Benzo(a)anthracene         | 21.10 | 228  | 2105512  | 21.427 | ng/ul | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 21.06 | 149  | 1551632  | 22.820 | ng/ul | 97       |
| 84) Chrysene                   | 21.15 | 228  | 2002788  | 21.209 | ng/ul | 99       |
| 86) Di-n-octyl phthalate       | 21.91 | 149  | 2568316  | 29.533 | ng/ul | 100      |
| 87) Benzo(b)fluoranthene       | 22.62 | 252  | 1820001  | 23.008 | ng/ul | 99       |
| 88) Benzo(k)fluoranthene       | 22.66 | 252  | 1758106  | 22.758 | ng/ul | 97       |
| 90) Benzo(a)pyrene             | 23.16 | 252  | 1660756  | 22.866 | ng/ul | 100      |
| 91) Indeno(1,2,3-cd)pyrene     | 25.35 | 276  | 1665574  | 18.928 | ng/ul | 99       |
| 92) Dibenzo(a,h)anthracene     | 25.36 | 278  | 1447397  | 19.489 | ng/ul | 98       |
| 93) Benzo(g,h,i)perylene       | 25.99 | 276  | 1362773  | 18.508 | ng/ul | 98       |

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

