

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN051819\  
 Data File : BN005753.D  
 Acq On : 18 May 2019 15:18  
 Operator : JU/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD02081

Manual Integrations  
 APPROVED

Sohil  
 5/21/2019 7:10:12 PM

Quant Time: May 20 04:20:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon May 20 03:44:27 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 102962   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.33 | 136  | 461706   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.21 | 164  | 324608   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.97 | 188  | 789887   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.22 | 240  | 840770   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.43 | 264  | 944940   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.19  | 96  | 15322  | 8.33  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.76  | 99  | 166631 | 20.94 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.92  | 67  | 91763  | 22.10 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.11  | 132 | 139544 | 21.81 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.28  | 113 | 142105 | 20.88 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.72  | 128 | 75034  | 22.38 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.44  | 143 | 86407  | 22.33 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 166891 | 22.59 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 179798 | 21.92 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.63 | 166 | 544099 | 21.78 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.90 | 160 | 661383 | 21.79 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 73757  | 20.96 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.22 | 176 | 463266 | 21.60 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 100667 | 21.20 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.07 | 188 | 773261 | 22.66 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.39 | 212 | 909971 | 21.96 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.29 | 264 | 935662 | 22.07 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Ovalue |     |
|--------------------------------|-------|-----|--------|--------|--------|-----|
| 2) 1,4-Dioxane                 | 3.22  | 88  | 16497  | 8.521  | ng/uL# | 89  |
| 4) Benzaldehyde                | 6.73  | 77  | 119487 | 20.744 | ng/ul  | 96  |
| 6) Phenol                      | 6.79  | 94  | 170460 | 21.015 | ng/ul  | 97  |
| 8) Bis(2-Chloroethyl)ether     | 7.01  | 93  | 130926 | 22.027 | ng/ul  | 90  |
| 10) 2-Chlorophenol             | 7.15  | 128 | 139713 | 21.563 | ng/ul  | 94  |
| 11) 2-Methylphenol             | 8.02  | 108 | 136058 | 21.126 | ng/ul  | 97  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.09  | 45  | 173469 | 22.194 | ng/ul# | 94  |
| 14) Acetophenone               | 8.39  | 105 | 236035 | 21.665 | ng/ul  | 99  |
| 15) N-Nitroso-di-n-propylamine | 8.37  | 70  | 115504 | 21.956 | ng/ul# | 91  |
| 16) 4-Methylphenol             | 8.35  | 108 | 150193 | 21.189 | ng/ul  | 96  |
| 17) Hexachloroethane           | 8.63  | 117 | 60361  | 21.710 | ng/ul  | 86  |
| 20) Nitrobenzene               | 8.76  | 77  | 172705 | 22.292 | ng/ul  | 96  |
| 21) Isophorone                 | 9.28  | 82  | 342161 | 22.152 | ng/ul  | 96  |
| 23) 2-Nitrophenol              | 9.47  | 139 | 89860  | 22.303 | ng/ul  | 99  |
| 24) 2,4-Dimethylphenol         | 9.53  | 107 | 183624 | 22.070 | ng/ul  | 99  |
| 25) Bis(2-Chloroethoxy)methane | 9.76  | 93  | 194481 | 22.267 | ng/ul  | 99  |
| 27) 2,4-Dichlorophenol         | 10.00 | 162 | 159420 | 22.434 | ng/ul  | 97  |
| 28) Naphthalene                | 10.38 | 128 | 481304 | 21.822 | ng/ul  | 98  |
| 30) 4-Chloroaniline            | 10.51 | 127 | 181640 | 21.899 | ng/ul  | 98  |
| 31) Hexachlorobutadiene        | 10.66 | 225 | 116209 | 22.420 | ng/ul  | 98  |
| 32) Caprolactam                | 11.27 | 113 | 56525m | 21.709 | ng/ul  |     |
| 33) 4-Chloro-3-methylphenol    | 11.65 | 107 | 177002 | 22.020 | ng/ul  | 95  |
| 34) 2-Methylnaphthalene        | 12.00 | 142 | 368073 | 21.610 | ng/ul  | 100 |

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 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
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 SSTD02081

Manual Integrations  
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Quant Time: May 20 04:20:25 2019  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon May 20 03:44:27 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.39 | 216  | 231078   | 22.111 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.36 | 237  | 72138    | 22.148 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.64 | 196  | 139754   | 21.603 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.72 | 196  | 148060   | 21.787 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.04 | 154  | 520622   | 22.057 | ng/ul# | 97       |
| 41) 2-Chloronaphthalene        | 13.08 | 162  | 405894   | 21.771 | ng/ul  | 96       |
| 42) 2-Nitroaniline             | 13.30 | 65   | 119762   | 22.285 | ng/ul  | 92       |
| 44) Dimethylphthalate          | 13.67 | 163  | 540977   | 21.968 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.81 | 165  | 113249   | 21.825 | ng/ul  | 92       |
| 47) Acenaphthylene             | 13.93 | 152  | 641310   | 21.946 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.14 | 138  | 99748    | 21.816 | ng/ul  | 91       |
| 49) Acenaphthene               | 14.27 | 153  | 433803   | 21.909 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.39 | 184  | 52192    | 19.546 | ng/ul  | 91       |
| 52) 4-Nitrophenol              | 14.47 | 109  | 66323    | 20.183 | ng/ul  | 95       |
| 53) Dibenzofuran               | 14.62 | 168  | 645753   | 21.982 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.62 | 165  | 172161   | 22.140 | ng/ul# | 82       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 139202   | 22.060 | ng/ul  | 91       |
| 56) Diethylphthalate           | 15.05 | 149  | 542112   | 21.751 | ng/ul  | 97       |
| 58) Fluorene                   | 15.27 | 166  | 525220   | 21.980 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.27 | 204  | 286213   | 21.956 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.32 | 138  | 111049   | 21.786 | ng/ul  | 94       |
| 63) 4,6-Dinitro-2-methylphenol | 15.39 | 198  | 103043   | 21.666 | ng/ul# | 95       |
| 64) N-Nitrosodiphenylamine     | 15.49 | 169  | 465493   | 22.771 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.16 | 248  | 185105   | 22.379 | ng/ul  | 95       |
| 66) Hexachlorobenzene          | 16.29 | 284  | 208302   | 22.448 | ng/ul# | 92       |
| 67) Atrazine                   | 16.45 | 200  | 192979   | 22.497 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 16.64 | 266  | 86795    | 20.273 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.02 | 178  | 866348   | 22.126 | ng/ul  | 100      |
| 71) Anthracene                 | 17.11 | 178  | 898236   | 22.531 | ng/ul  | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.00 | 216  | 240486   | 22.710 | ng/ul  | 97       |
| 73) Pentachlorobenzene         | 14.55 | 250  | 235638   | 22.562 | ng/ul  | 100      |
| 74) Carbazole                  | 17.39 | 167  | 790742   | 22.497 | ng/ul  | 99       |
| 75) Di-n-butylphthalate        | 17.95 | 149  | 954181   | 22.726 | ng/ul  | 100      |
| 76) Fluoranthene               | 19.06 | 202  | 1102051  | 22.766 | ng/ul# | 92       |
| 79) Pvrene                     | 19.42 | 202  | 1125406  | 21.797 | ng/ul# | 90       |
| 80) Butylbenzylphthalate       | 20.34 | 149  | 459852   | 21.740 | ng/ul  | 95       |
| 81) 3,3'-Dichlorobenzidine     | 21.13 | 252  | 399776   | 22.636 | ng/ul# | 98       |
| 82) Benzo(a)anthracene         | 21.20 | 228  | 1172557  | 22.137 | ng/ul  | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 21.13 | 149  | 654933   | 21.823 | ng/ul# | 99       |
| 84) Chrysene                   | 21.25 | 228  | 1102121  | 22.072 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 22.02 | 149  | 1144486  | 22.700 | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.77 | 252  | 1183438  | 22.765 | ng/ul# | 95       |
| 88) Benzo(k)fluoranthene       | 22.82 | 252  | 1094801  | 21.765 | ng/ul# | 97       |
| 90) Benzo(a)pyrene             | 23.34 | 252  | 1113900  | 22.128 | ng/ul# | 97       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.64 | 276  | 1335318  | 21.697 | ng/ul# | 92       |
| 92) Dibenzo(a,h)anthracene     | 25.64 | 278  | 1131042  | 21.832 | ng/ul# | 94       |
| 93) Benzo(g,h,i)perylene       | 26.31 | 276  | 1111768  | 21.611 | ng/ul# | 90       |

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

