

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM012117\  
 Data File : BM008770.D  
 Acq On : 21 Jan 2017 12:40  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02065

Manual Integrations  
 APPROVED

mohammad  
 1/23/2017 2:48:24 PM

Quant Time: Jan 23 03:52:34 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010617.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 10 05:39:40 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.95  | 152  | 45631    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.76 | 136  | 193487   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.59 | 164  | 179048   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.33 | 188  | 471724m  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.49 | 240  | 675491   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.86 | 264  | 647402   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.40  | 96  | 8889   | 9.00  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.10  | 99  | 76260  | 20.34 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.29  | 67  | 60648  | 23.84 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.48  | 132 | 49233  | 18.86 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.65  | 113 | 56194  | 19.33 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.12  | 128 | 25722  | 21.54 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.84  | 143 | 29096  | 22.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.37 | 165 | 62000  | 20.75 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.89 | 131 | 69905  | 21.12 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.99 | 166 | 217315 | 18.40 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.28 | 160 | 258229 | 18.54 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.76 | 143 | 35901  | 18.58 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.57 | 176 | 224803 | 20.64 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.69 | 200 | 47468  | 19.52 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.43 | 188 | 399761 | 19.67 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.71 | 212 | 529049 | 17.77 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.70 | 264 | 530449 | 20.09 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.45  | 88  | 11897  | 10.13 | ng/uL# | 51     |
| 4) Benzaldehyde                | 7.10  | 77  | 74769  | 27.37 | ng/ul# | 79     |
| 6) Phenol                      | 7.13  | 94  | 86615  | 21.50 | ng/ul# | 49     |
| 8) Bis(2-Chloroethyl)ether     | 7.37  | 93  | 61728  | 20.90 | ng/ul# | 68     |
| 10) 2-Chlorophenol             | 7.52  | 128 | 52266  | 19.54 | ng/ul# | 61     |
| 11) 2-Methylphenol             | 8.39  | 108 | 57600  | 19.46 | ng/ul  | 97     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.49  | 45  | 120265 | 26.31 | ng/ul# | 90     |
| 14) Acetophenone               | 8.78  | 105 | 111319 | 21.79 | ng/ul# | 54     |
| 15) N-Nitroso-di-n-propylamine | 8.76  | 70  | 72176  | 24.89 | ng/ul# | 66     |
| 16) 4-Methylphenol             | 8.71  | 108 | 64653  | 20.23 | ng/ul# | 77     |
| 17) Hexachloroethane           | 9.03  | 117 | 32391  | 22.85 | ng/ul# | 78     |
| 20) Nitrobenzene               | 9.16  | 77  | 109255 | 25.77 | ng/ul# | 79     |
| 21) Isophorone                 | 9.69  | 82  | 178024 | 23.74 | ng/ul# | 87     |
| 23) 2-Nitrophenol              | 9.87  | 139 | 28992  | 20.88 | ng/ul# | 6      |
| 24) 2,4-Dimethylphenol         | 9.92  | 107 | 91864  | 23.36 | ng/ul# | 81     |
| 25) Bis(2-Chloroethoxy)methane | 10.16 | 93  | 85150  | 21.47 | ng/ul  | 94     |
| 27) 2,4-Dichlorophenol         | 10.40 | 162 | 61852  | 20.91 | ng/ul# | 89     |
| 28) Naphthalene                | 10.81 | 128 | 174380 | 19.72 | ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.92 | 127 | 74074  | 21.83 | ng/ul  | 93     |
| 31) Hexachlorobutadiene        | 11.09 | 225 | 58771  | 22.16 | ng/ul  | 92     |
| 32) Caprolactam                | 11.69 | 113 | 17715  | 19.56 | ng/ul# | 59     |
| 33) 4-Chloro-3-methylphenol    | 12.02 | 107 | 77146  | 21.70 | ng/ul  | 86     |
| 34) 2-Methylnaphthalene        | 12.41 | 142 | 141445 | 20.63 | ng/ul  | 96     |

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 Acq On : 21 Jan 2017 12:40  
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 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02065

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 10 05:39:40 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.77 | 216  | 106296   | 19.81 | ng/ul# | 94       |
| 37) Hexachlorocyclopentadiene  | 12.75 | 237  | 67971    | 17.81 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.01 | 196  | 61212    | 18.89 | ng/ul  | 94       |
| 39) 2,4,5-Trichlorophenol      | 13.08 | 196  | 64073    | 18.35 | ng/ul  | 92       |
| 40) 1,1'-Biphenyl              | 13.42 | 154  | 203785   | 18.15 | ng/ul  | 96       |
| 41) 2-Chloronaphthalene        | 13.46 | 162  | 163614   | 18.57 | ng/ul  | 93       |
| 42) 2-Nitroaniline             | 13.66 | 65   | 84376    | 27.51 | ng/ul# | 57       |
| 44) Dimethylphthalate          | 14.04 | 163  | 217362   | 18.40 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.16 | 165  | 40216    | 19.51 | ng/ul# | 39       |
| 47) Acenaphthylene             | 14.31 | 152  | 258712   | 18.93 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.49 | 138  | 42181    | 20.20 | ng/ul# | 75       |
| 49) Acenaphthene               | 14.65 | 153  | 185287   | 19.61 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.69 | 184  | 23038    | 16.09 | ng/ul# | 21       |
| 52) 4-Nitrophenol              | 14.78 | 109  | 80136    | 24.93 | ng/ul# | 64       |
| 53) Dibenzofuran               | 14.98 | 168  | 286796   | 19.95 | ng/ul# | 83       |
| 54) 2,4-Dinitrotoluene         | 14.94 | 165  | 66403    | 21.27 | ng/ul# | 55       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.20 | 232  | 71499    | 21.66 | ng/ul# | 90       |
| 56) Diethylphthalate           | 15.40 | 149  | 260774   | 20.99 | ng/ul  | 98       |
| 58) Fluorene                   | 15.63 | 166  | 251615   | 21.35 | ng/ul  | 91       |
| 59) 4-Chlorophenyl-phenylether | 15.62 | 204  | 147914   | 22.13 | ng/ul  | 91       |
| 60) 4-Nitroaniline             | 15.64 | 138  | 46941    | 20.57 | ng/ul# | 16       |
| 63) 4,6-Dinitro-2-methylphenol | 15.70 | 198  | 49214    | 19.14 | ng/ul# | 70       |
| 64) N-Nitrosodiphenylamine     | 15.83 | 169  | 220032   | 18.58 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.52 | 248  | 95967    | 19.64 | ng/ul  | 91       |
| 66) Hexachlorobenzene          | 16.63 | 284  | 104962   | 19.19 | ng/ul# | 93       |
| 67) Atrazine                   | 16.78 | 200  | 97741    | 18.58 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.97 | 266  | 64601    | 18.77 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.37 | 178  | 453688m  | 19.98 | ng/ul  |          |
| 71) Anthracene                 | 17.46 | 178  | 472443   | 20.24 | ng/ul  | 99       |
| 72) Carbazole                  | 17.73 | 167  | 403168   | 19.41 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.29 | 149  | 481910   | 19.74 | ng/ul# | 96       |
| 74) Fluoranthene               | 19.37 | 202  | 613660   | 21.02 | ng/ul# | 94       |
| 77) Pyrene                     | 19.74 | 202  | 649784   | 17.88 | ng/ul# | 91       |
| 78) Butylbenzylphthalate       | 20.63 | 149  | 225554   | 16.88 | ng/ul# | 81       |
| 79) 3,3'-Dichlorobenzidine     | 21.41 | 252  | 240680   | 18.69 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.47 | 228  | 703931   | 19.66 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.39 | 149  | 329762   | 17.63 | ng/ul  | 98       |
| 82) Chrysene                   | 21.53 | 228  | 674110   | 20.28 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.30 | 149  | 597048   | 17.71 | ng/ul# | 83       |
| 85) Benzo(b)fluoranthene       | 23.13 | 252  | 714448   | 20.70 | ng/ul# | 96       |
| 86) Benzo(k)fluoranthene       | 23.19 | 252  | 638031   | 19.12 | ng/ul# | 96       |
| 88) Benzo(a)pyrene             | 23.75 | 252  | 672428   | 20.42 | ng/ul# | 96       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.27 | 276  | 682146   | 18.27 | ng/ul# | 94       |
| 90) Dibenzo(a,h)anthracene     | 26.28 | 278  | 583220   | 18.28 | ng/ul# | 95       |
| 91) Benzo(g,h,i)perylene       | 27.01 | 276  | 576368   | 18.20 | ng/ul# | 93       |

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

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Data File : BM008770.D  
Acq On : 21 Jan 2017 12:40  
Operator : UM/SJ  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleID :  
SSTD02065

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