

Data Path : Z:\HPCHEM1\BNA M\DATA\BM032417\  
 Data File : BM009378.D  
 Acq On : 24 Mar 2017 13:58  
 Operator : SJ/MA  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02062

Manual Integrations  
 APPROVED

mohammad  
 3/27/2017 1:17:23 PM

Quant Time: Mar 25 00:00:04 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM032317MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 24 04:55:42 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 134352   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.66 | 136  | 535819   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.50 | 164  | 340852   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.24 | 188  | 806394   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.42 | 240  | 1102105  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.75 | 264  | 1021559  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.33  | 96  | 28219   | 8.00  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.01  | 99  | 237265  | 19.53 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.19  | 67  | 178242m | 20.58 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.39  | 132 | 164626  | 20.12 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.55  | 113 | 178983  | 19.73 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.02  | 128 | 77619   | 19.71 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.74  | 143 | 82791   | 19.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.27 | 165 | 174804  | 20.80 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.79 | 131 | 212357  | 21.93 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.90 | 166 | 532788  | 22.23 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.19 | 160 | 662789  | 22.04 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.69 | 143 | 92610   | 20.96 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.49 | 176 | 500988  | 22.78 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.61 | 200 | 94649   | 18.57 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.34 | 188 | 788128  | 20.49 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.64 | 212 | 923327  | 19.76 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.60 | 264 | 964568  | 20.50 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) 1,4-Dioxane                 | 3.36  | 88  | 30875  | 7.84  | ng/uL# 62 |
| 4) Benzaldehyde                | 7.00  | 77  | 194991 | 22.91 | ng/ul# 84 |
| 6) Phenol                      | 7.04  | 94  | 260106 | 20.01 | ng/ul# 81 |
| 8) Bis(2-Chloroethyl)ether     | 7.28  | 93  | 197854 | 19.54 | ng/ul# 78 |
| 10) 2-Chlorophenol             | 7.42  | 128 | 174640 | 20.06 | ng/ul# 75 |
| 11) 2-Methylphenol             | 8.29  | 108 | 171403 | 19.06 | ng/ul 100 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.39  | 45  | 331712 | 20.19 | ng/ul# 87 |
| 14) Acetophenone               | 8.68  | 105 | 311496 | 20.14 | ng/ul# 74 |
| 15) N-Nitroso-di-n-propylamine | 8.66  | 70  | 179995 | 20.17 | ng/ul# 77 |
| 16) 4-Methylphenol             | 8.62  | 108 | 191683 | 19.63 | ng/ul 97  |
| 17) Hexachloroethane           | 8.93  | 117 | 83000  | 19.76 | ng/ul 88  |
| 20) Nitrobenzene               | 9.06  | 77  | 273609 | 20.60 | ng/ul# 82 |
| 21) Isophorone                 | 9.58  | 82  | 457086 | 20.70 | ng/ul# 91 |
| 23) 2-Nitrophenol              | 9.77  | 139 | 92125  | 20.39 | ng/ul# 55 |
| 24) 2,4-Dimethylphenol         | 9.82  | 107 | 229699 | 20.59 | ng/ul 87  |
| 25) Bis(2-Chloroethoxy)methane | 10.06 | 93  | 270808 | 21.16 | ng/ul 95  |
| 27) 2,4-Dichlorophenol         | 10.29 | 162 | 174478 | 20.70 | ng/ul# 95 |
| 28) Naphthalene                | 10.70 | 128 | 555780 | 20.49 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.82 | 127 | 223407 | 21.90 | ng/ul 96  |
| 31) Hexachlorobutadiene        | 10.97 | 225 | 135858 | 20.58 | ng/ul 92  |
| 32) Caprolactam                | 11.59 | 113 | 51146m | 19.70 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.93 | 107 | 199502 | 21.08 | ng/ul 90  |
| 34) 2-Methylnaphthalene        | 12.32 | 142 | 417060 | 21.33 | ng/ul 99  |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02062

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 24 04:55:42 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.68 | 216  | 242248   | 21.15 | ng/ul  | 95       |
| 37) Hexachlorocyclopentadiene  | 12.65 | 237  | 137971   | 19.21 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.92 | 196  | 141334   | 21.08 | ng/ul  | 96       |
| 39) 2,4,5-Trichlorophenol      | 12.99 | 196  | 158619   | 21.93 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.33 | 154  | 556325   | 22.09 | ng/ul# | 96       |
| 41) 2-Chloronaphthalene        | 13.37 | 162  | 433534   | 22.13 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.59 | 65   | 156719   | 21.70 | ng/ul# | 66       |
| 44) Dimethylphthalate          | 13.95 | 163  | 539667   | 22.57 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 14.08 | 165  | 102949   | 22.27 | ng/ul# | 75       |
| 47) Acenaphthylene             | 14.22 | 152  | 665634   | 22.22 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.41 | 138  | 108136   | 22.69 | ng/ul# | 79       |
| 49) Acenaphthene               | 14.56 | 153  | 462490   | 21.98 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.62 | 184  | 56043    | 17.65 | ng/ul# | 81       |
| 52) 4-Nitrophenol              | 14.70 | 109  | 108207   | 20.89 | ng/ul# | 68       |
| 53) Dibenzofuran               | 14.90 | 168  | 697577   | 22.88 | ng/ul  | 95       |
| 54) 2,4-Dinitrotoluene         | 14.86 | 165  | 155434   | 22.50 | ng/ul# | 57       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.12 | 232  | 146565   | 22.48 | ng/ul# | 87       |
| 56) Diethylphthalate           | 15.32 | 149  | 547649   | 22.33 | ng/ul  | 98       |
| 58) Fluorene                   | 15.54 | 166  | 568338   | 22.86 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.54 | 204  | 297295   | 22.42 | ng/ul  | 90       |
| 60) 4-Nitroaniline             | 15.57 | 138  | 121530   | 24.01 | ng/ul# | 74       |
| 63) 4,6-Dinitro-2-methylphenol | 15.63 | 198  | 98820    | 18.03 | ng/ul# | 84       |
| 64) N-Nitrosodiphenylamine     | 15.76 | 169  | 495175   | 20.35 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.43 | 248  | 184133   | 20.38 | ng/ul# | 89       |
| 66) Hexachlorobenzene          | 16.54 | 284  | 210269   | 20.66 | ng/ul  | 92       |
| 67) Atrazine                   | 16.70 | 200  | 179235   | 19.31 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.89 | 266  | 113445   | 18.41 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.29 | 178  | 929907   | 20.49 | ng/ul  | 98       |
| 71) Anthracene                 | 17.38 | 178  | 951740   | 20.48 | ng/ul  | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.29 | 216  | 223925   | 18.89 | ng/uL  | 95       |
| 73) Pentachlorobenzene         | 14.82 | 250  | 228518   | 19.49 | ng/uL  | 99       |
| 74) Carbazole                  | 17.65 | 167  | 839762   | 20.04 | ng/ul  | 98       |
| 75) Di-n-butylphthalate        | 18.20 | 149  | 930208   | 20.57 | ng/ul# | 98       |
| 76) Fluoranthene               | 19.30 | 202  | 1098812  | 20.02 | ng/ul  | 99       |
| 79) Pvrene                     | 19.67 | 202  | 1185231  | 19.58 | ng/ul  | 97       |
| 80) Butylbenzylphthalate       | 20.56 | 149  | 428291   | 19.39 | ng/ul# | 83       |
| 81) 3,3'-Dichlorobenzidine     | 21.34 | 252  | 432439   | 20.45 | ng/ul# | 98       |
| 82) Benzo(a)anthracene         | 21.41 | 228  | 1276290  | 20.37 | ng/ul  | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.32 | 149  | 627970   | 19.37 | ng/ul# | 99       |
| 84) Chrysene                   | 21.46 | 228  | 1197128  | 20.16 | ng/ul  | 97       |
| 86) Di-n-octyl phthalate       | 22.22 | 149  | 1112869  | 18.77 | ng/ul# | 86       |
| 87) Benzo(b)fluoranthene       | 23.04 | 252  | 1219409  | 19.77 | ng/ul  | 99       |
| 88) Benzo(k)fluoranthene       | 23.09 | 252  | 1254552m | 21.34 | ng/ul  |          |
| 90) Benzo(a)pyrene             | 23.64 | 252  | 1218643  | 20.72 | ng/ul  | 97       |
| 91) Indeno(1,2,3-cd)pyrene     | 26.11 | 276  | 1392471  | 20.79 | ng/ul# | 90       |
| 92) Dibenzo(a,h)anthracene     | 26.13 | 278  | 1181011  | 20.58 | ng/ul# | 95       |
| 93) Benzo(g,h,i)perylene       | 26.85 | 276  | 1144654  | 20.51 | ng/ul# | 93       |

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

