

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG033116\  
 Data File : BG021592.D  
 Acq On : 31 Mar 2016 10:23  
 Operator : UM/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02030

Quant Time: Apr 01 01:26:40 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG031616.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 31 02:07:33 2016  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 118   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.602 | 0.579 | 3.8   | 101   | 0.00     |
| 3 S  | 1,4-Dioxane-d8              | 0.446 | 0.473 | -6.1  | 98    | 0.00     |
| 4    | Benzaldehyde                | 1.152 | 1.118 | 3.0   | 96    | 0.00     |
| 5 S  | Phenol-d5                   | 1.891 | 1.611 | 14.8  | 92    | 0.00     |
| 6    | Phenol                      | 1.999 | 1.785 | 10.7  | 99    | 0.00     |
| 7 S  | Bis-(2-Chloroethyl)ether-d8 | 1.120 | 1.064 | 5.0   | 105   | 0.00     |
| 8    | Bis(2-Chloroethyl)ether     | 1.447 | 1.301 | 10.1  | 95    | 0.00     |
| 9 S  | 2-Chlorophenol-d4           | 1.436 | 1.380 | 3.9   | 105   | 0.00     |
| 10   | 2-Chlorophenol              | 1.476 | 1.392 | 5.7   | 102   | 0.00     |
| 11   | 2-Methylphenol              | 1.538 | 1.393 | 9.4   | 101   | 0.00     |
| 12   | 2,2'-oxybis(1-Chloropropane | 1.745 | 1.545 | 11.5  | 95    | 0.00     |
| 13 S | 4-Methylphenol-d8           | 1.619 | 1.595 | 1.5   | 110   | 0.00     |
| 14   | Acetophenone                | 2.642 | 2.399 | 9.2   | 101   | 0.00     |
| 15 P | N-Nitroso-di-n-propylamine  | 1.465 | 1.359 | 7.2   | 99    | 0.00     |
| 16   | 4-Methylphenol              | 1.745 | 1.515 | 13.2  | 97    | 0.00     |
| 17   | Hexachloroethane            | 0.619 | 0.581 | 6.1   | 101   | 0.00     |
| 18 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 19 S | Nitrobenzene-d5             | 0.150 | 0.147 | 2.0   | 102   | 0.00     |
| 20   | Nitrobenzene                | 0.424 | 0.411 | 3.1   | 99    | 0.00     |
| 21   | Isophorone                  | 0.817 | 0.749 | 8.3   | 96    | 0.00     |
| 22 S | 2-Nitrophenol-d4            | 0.172 | 0.166 | 3.5   | 101   | 0.00     |
| 23 C | 2-Nitrophenol               | 0.189 | 0.186 | 1.6   | 101   | 0.00     |
| 24   | 2,4-Dimethylphenol          | 0.427 | 0.408 | 4.4   | 99    | 0.00     |
| 25   | Bis(2-Chloroethoxy)methane  | 0.426 | 0.395 | 7.3   | 96    | 0.00     |
| 26 S | 2,4-Dichlorophenol-d3       | 0.307 | 0.309 | -0.7  | 106   | 0.00     |
| 27 C | 2,4-Dichlorophenol          | 0.318 | 0.316 | 0.6   | 104   | 0.00     |
| 28   | Naphthalene                 | 1.060 | 1.008 | 4.9   | 99    | 0.00     |
| 29 S | 4-Chloroaniline-d4          | 0.401 | 0.403 | -0.5  | 98    | 0.00     |
| 30   | 4-Chloroaniline             | 0.421 | 0.426 | -1.2  | 102   | 0.00     |
| 31 C | Hexachlorobutadiene         | 0.234 | 0.222 | 5.1   | 99    | 0.00     |
| 32   | Caprolactam                 | 0.120 | 0.112 | 6.7   | 103   | 0.00     |
| 33 C | 4-Chloro-3-methylphenol     | 0.389 | 0.384 | 1.3   | 103   | 0.00     |
| 34   | 2-Methylnaphthalene         | 0.787 | 0.745 | 5.3   | 98    | 0.00     |
| 35   | 1-Methylnaphthalene         | 0.764 | 0.720 | 5.8   | 98    | 0.00     |
| 36 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 37   | 1,2,4,5-Tetrachlorobenzene  | 0.700 | 0.684 | 2.3   | 100   | 0.00     |
| 38   | Hexachlorocyclopentadiene   | 0.256 | 0.199 | 22.3# | 112   | 0.00     |
| 39 C | 2,4,6-Trichlorophenol       | 0.412 | 0.410 | 0.5   | 102   | 0.00     |
| 40   | 2,4,5-Trichlorophenol       | 0.449 | 0.449 | 0.0   | 103   | 0.00     |
| 41   | 1,1'-Biphenyl               | 1.636 | 1.590 | 2.8   | 98    | 0.00     |
| 42   | 2-Chloronaphthalene         | 1.280 | 1.232 | 3.8   | 99    | 0.00     |
| 43   | 2-Nitroaniline              | 0.446 | 0.446 | 0.0   | 102   | 0.00     |
| 44 S | Dimethylphthalate-d6        | 1.665 | 1.649 | 1.0   | 102   | 0.00     |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG033116\  
 Data File : BG021592.D  
 Acq On : 31 Mar 2016 10:23  
 Operator : UM/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02030

Quant Time: Apr 01 01:26:40 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG031616.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 31 02:07:33 2016  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 45   | Dimethylphthalate           | 1.730 | 1.654 | 4.4   | 99    | 0.00     |
| 46   | 2,6-Dinitrotoluene          | 0.353 | 0.359 | -1.7  | 102   | 0.00     |
| 47 S | Acenaphthylene-d8           | 2.053 | 1.980 | 3.6   | 99    | 0.00     |
| 48   | Acenaphthylene              | 2.034 | 2.000 | 1.7   | 101   | 0.00     |
| 49   | 3-Nitroaniline              | 0.327 | 0.347 | -6.1  | 105   | 0.00     |
| 50 C | Acenaphthene                | 1.403 | 1.346 | 4.1   | 98    | 0.00     |
| 51   | 2,4-Dinitrophenol           | 0.178 | 0.117 | 34.3# | 77    | 0.00     |
| 52 S | 4-Nitrophenol-d4            | 0.266 | 0.180 | 32.3# | 89    | 0.00     |
| 53   | 4-Nitrophenol               | 0.276 | 0.214 | 22.5# | 82    | 0.00     |
| 54   | Dibenzofuran                | 1.965 | 1.946 | 1.0   | 103   | 0.00     |
| 55   | 2,4-Dinitrotoluene          | 0.518 | 0.537 | -3.7  | 104   | 0.00     |
| 56   | 2,3,4,6-Tetrachlorophenol   | 0.328 | 0.268 | 18.3  | 83    | 0.00     |
| 57   | Diethylphthalate            | 1.849 | 1.784 | 3.5   | 100   | 0.00     |
| 58 S | Fluorene-d10                | 1.501 | 1.452 | 3.3   | 100   | 0.00     |
| 59   | Fluorene                    | 1.718 | 1.667 | 3.0   | 100   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether  | 0.902 | 0.870 | 3.5   | 101   | 0.00     |
| 61   | 4-Nitroaniline              | 0.342 | 0.342 | 0.0   | 102   | 0.00     |
| 62 I | Phenanthrene-d10            | 1.000 | 1.000 | 0.0   | 118   | 0.00     |
| 63 S | 4,6-Dinitro-2-methylphenol- | 0.132 | 0.112 | 15.2  | 98    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol  | 0.140 | 0.117 | 16.4  | 97    | 0.00     |
| 65   | N-Nitrosodiphenylamine      | 0.620 | 0.596 | 3.9   | 106   | 0.00     |
| 66   | 4-Bromophenyl-phenylether   | 0.234 | 0.227 | 3.0   | 107   | 0.00     |
| 67   | Hexachlorobenzene           | 0.246 | 0.240 | 2.4   | 105   | 0.00     |
| 68   | Atrazine                    | 0.250 | 0.244 | 2.4   | 108   | 0.00     |
| 69 C | Pentachlorophenol           | 0.065 | 0.049 | 24.6  | 96    | 0.00     |
| 70   | Phenanthrene                | 1.133 | 1.095 | 3.4   | 105   | 0.00     |
| 71 S | Anthracene-d10              | 0.980 | 0.921 | 6.0   | 103   | 0.00     |
| 72   | Anthracene                  | 1.152 | 1.110 | 3.6   | 104   | 0.00     |
| 73   | 1,2,3,4-Tetrachlorobenzene  | 0.280 | 0.266 | 5.0   | 103   | 0.00     |
| 74   | Pentachlorobenzene          | 0.291 | 0.271 | 6.9   | 100   | 0.00     |
| 75   | Carbazole                   | 0.997 | 0.948 | 4.9   | 103   | 0.00     |
| 76   | Di-n-butylphthalate         | 1.286 | 1.255 | 2.4   | 105   | 0.00     |
| 77 C | Fluoranthene                | 1.367 | 1.313 | 4.0   | 104   | 0.00     |
| 78 I | Chrysene-d12                | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 79 S | Pyrene-d10                  | 0.933 | 0.904 | 3.1   | 99    | 0.00     |
| 80   | Pyrene                      | 1.192 | 1.170 | 1.8   | 101   | 0.00     |
| 81   | Butylbenzylphthalate        | 0.503 | 0.484 | 3.8   | 102   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine      | 0.415 | 0.394 | 5.1   | 94    | 0.00     |
| 83   | Benzo(a)anthracene          | 1.207 | 1.162 | 3.7   | 99    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate  | 0.736 | 0.701 | 4.8   | 98    | 0.00     |
| 85   | Chrysene                    | 1.143 | 1.089 | 4.7   | 99    | 0.00     |
| 86 I | Perylene-d12                | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 87   | Di-n-octyl phthalate        | 1.358 | 1.276 | 6.0   | 99    | 0.00     |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG033116\  
Data File : BG021592.D  
Acq On : 31 Mar 2016 10:23  
Operator : UM/SJ  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTD02030

Quant Time: Apr 01 01:26:40 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG031616.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 31 02:07:33 2016  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.285 | 1.210 | 5.8  | 97    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.262 | 1.220 | 3.3  | 101   | 0.00     |
| 90 S | Benzo(a)pyrene-d12     | 0.923 | 0.873 | 5.4  | 99    | 0.00     |
| 91 C | Benzo(a)pyrene         | 1.247 | 1.183 | 5.1  | 99    | 0.00     |
| 92   | Indeno(1,2,3-cd)pyrene | 1.417 | 1.320 | 6.8  | 97    | 0.00     |
| 93   | Dibenzo(a,h)anthracene | 1.206 | 1.113 | 7.7  | 96    | 0.00     |
| 94   | Benzo(g,h,i)perylene   | 1.166 | 1.088 | 6.7  | 97    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0