

Data Path : Z:\HPCHEM1\BNA G\Data\BG111715\  
 Data File : BG019664.D  
 Acq On : 17 Nov 2015 17:49  
 Operator : UM/NP  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02030

Quant Time: Nov 18 01:14:12 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 18 00:33:53 2015  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.534 | 0.672 | -25.8# | 147   | 0.00     |
| 3 S  | 1,4-Dioxane-d8              | 0.468 | 0.496 | -6.0   | 106   | 0.00     |
| 4    | Benzaldehyde                | 1.493 | 1.711 | -14.6  | 93    | 0.00     |
| 5 S  | Phenol-d5                   | 2.049 | 2.054 | -0.2   | 97    | 0.00     |
| 6    | Phenol                      | 2.212 | 2.231 | -0.9   | 98    | 0.00     |
| 7 S  | Bis-(2-Chloroethyl)ether-d8 | 1.342 | 1.318 | 1.8    | 90    | 0.00     |
| 8    | Bis(2-Chloroethyl)ether     | 1.540 | 1.562 | -1.4   | 93    | 0.00     |
| 9 S  | 2-Chlorophenol-d4           | 1.314 | 1.247 | 5.1    | 91    | 0.00     |
| 10   | 2-Chlorophenol              | 1.284 | 1.242 | 3.3    | 95    | 0.00     |
| 11   | 2-Methylphenol              | 1.629 | 1.626 | 0.2    | 94    | 0.00     |
| 12   | 2,2'-oxybis(1-Chloropropane | 1.345 | 1.335 | 0.7    | 91    | 0.00     |
| 13 S | 4-Methylphenol-d8           | 1.696 | 1.624 | 4.2    | 91    | 0.00     |
| 14   | Acetophenone                | 2.803 | 2.749 | 1.9    | 93    | 0.00     |
| 15 P | N-Nitroso-di-n-propylamine  | 1.894 | 1.735 | 8.4    | 90    | 0.00     |
| 16   | 4-Methylphenol              | 1.835 | 1.776 | 3.2    | 93    | 0.00     |
| 17   | Hexachloroethane            | 0.610 | 0.607 | 0.5    | 97    | 0.00     |
| 18 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 19 S | Nitrobenzene-d5             | 0.164 | 0.150 | 8.5    | 89    | 0.00     |
| 20   | Nitrobenzene                | 0.591 | 0.571 | 3.4    | 93    | 0.00     |
| 21   | Isophorone                  | 1.141 | 1.090 | 4.5    | 94    | 0.00     |
| 22 S | 2-Nitrophenol-d4            | 0.185 | 0.185 | 0.0    | 91    | 0.00     |
| 23 C | 2-Nitrophenol               | 0.200 | 0.192 | 4.0    | 95    | 0.00     |
| 24   | 2,4-Dimethylphenol          | 0.533 | 0.505 | 5.3    | 93    | 0.00     |
| 25   | Bis(2-Chloroethoxy)methane  | 0.565 | 0.551 | 2.5    | 95    | 0.00     |
| 26 S | 2,4-Dichlorophenol-d3       | 0.400 | 0.391 | 2.3    | 95    | 0.00     |
| 27 C | 2,4-Dichlorophenol          | 0.381 | 0.361 | 5.2    | 93    | 0.00     |
| 28   | Naphthalene                 | 1.080 | 1.037 | 4.0    | 93    | 0.00     |
| 29 S | 4-Chloroaniline-d4          | 0.379 | 0.433 | -14.2  | 98    | 0.00     |
| 30   | 4-Chloroaniline             | 0.395 | 0.426 | -7.8   | 92    | 0.00     |
| 31 C | Hexachlorobutadiene         | 0.343 | 0.329 | 4.1    | 92    | 0.00     |
| 32   | Caprolactam                 | 0.155 | 0.153 | 1.3    | 93    | -0.01    |
| 33 C | 4-Chloro-3-methylphenol     | 0.531 | 0.518 | 2.4    | 96    | 0.00     |
| 34   | 2-Methylnaphthalene         | 0.862 | 0.816 | 5.3    | 90    | 0.00     |
| 35   | 1-Methylnaphthalene         | 0.858 | 0.811 | 5.5    | 93    | 0.00     |
| 36 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 37   | 1,2,4,5-Tetrachlorobenzene  | 0.802 | 0.795 | 0.9    | 97    | 0.00     |
| 38   | Hexachlorocyclopentadiene   | 0.467 | 0.435 | 6.9    | 93    | 0.00     |
| 39 C | 2,4,6-Trichlorophenol       | 0.489 | 0.485 | 0.8    | 97    | 0.00     |
| 40   | 2,4,5-Trichlorophenol       | 0.512 | 0.536 | -4.7   | 103   | 0.00     |
| 41   | 1,1'-Biphenyl               | 1.488 | 1.441 | 3.2    | 95    | 0.00     |
| 42   | 2-Chloronaphthalene         | 1.156 | 1.134 | 1.9    | 95    | 0.00     |
| 43   | 2-Nitroaniline              | 0.489 | 0.470 | 3.9    | 92    | 0.00     |
| 44 S | Dimethylphthalate-d6        | 1.809 | 1.736 | 4.0    | 93    | 0.00     |

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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           | 1.794 | 1.746 | 2.7   | 94    | 0.00     |
| 46   | 2,6-Dinitrotoluene          | 0.359 | 0.356 | 0.8   | 98    | 0.00     |
| 47 S | Acenaphthylene-d8           | 1.961 | 1.915 | 2.3   | 95    | 0.00     |
| 48   | Acenaphthylene              | 1.957 | 1.943 | 0.7   | 96    | 0.00     |
| 49   | 3-Nitroaniline              | 0.299 | 0.326 | -9.0  | 93    | 0.00     |
| 50 C | Acenaphthene                | 1.340 | 1.312 | 2.1   | 95    | 0.00     |
| 51   | 2,4-Dinitrophenol           | 0.236 | 0.222 | 5.9   | 96    | 0.00     |
| 52 S | 4-Nitrophenol-d4            | 0.285 | 0.287 | -0.7  | 96    | 0.00     |
| 53   | 4-Nitrophenol               | 0.347 | 0.355 | -2.3  | 95    | 0.00     |
| 54   | Dibenzofuran                | 1.964 | 1.939 | 1.3   | 97    | 0.00     |
| 55   | 2,4-Dinitrotoluene          | 0.558 | 0.574 | -2.9  | 98    | 0.00     |
| 56   | 2,3,4,6-Tetrachlorophenol   | 0.543 | 0.547 | -0.7  | 96    | 0.00     |
| 57   | Diethylphthalate            | 1.792 | 1.771 | 1.2   | 96    | 0.00     |
| 58 S | Fluorene-d10                | 1.619 | 1.588 | 1.9   | 95    | 0.00     |
| 59   | Fluorene                    | 1.717 | 1.685 | 1.9   | 97    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether  | 0.999 | 0.966 | 3.3   | 96    | 0.00     |
| 61   | 4-Nitroaniline              | 0.360 | 0.401 | -11.4 | 97    | 0.00     |
| 62 I | Phenanthrene-d10            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 63 S | 4,6-Dinitro-2-methylphenol- | 0.129 | 0.124 | 3.9   | 95    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol  | 0.137 | 0.136 | 0.7   | 96    | 0.00     |
| 65   | N-Nitrosodiphenylamine      | 0.539 | 0.513 | 4.8   | 95    | 0.00     |
| 66   | 4-Bromophenyl-phenylether   | 0.240 | 0.231 | 3.7   | 95    | 0.00     |
| 67   | Hexachlorobenzene           | 0.254 | 0.236 | 7.1   | 93    | 0.00     |
| 68   | Atrazine                    | 0.251 | 0.260 | -3.6  | 100   | 0.00     |
| 69 C | Pentachlorophenol           | 0.142 | 0.124 | 12.7  | 91    | 0.00     |
| 70   | Phenanthrene                | 1.070 | 1.058 | 1.1   | 99    | 0.00     |
| 71 S | Anthracene-d10              | 0.971 | 0.956 | 1.5   | 98    | 0.00     |
| 72   | Anthracene                  | 1.079 | 1.069 | 0.9   | 98    | 0.00     |
| 73   | 1,2,3,4-Tetrachlorobenzene  | 0.276 | 0.268 | 2.9   | 97    | 0.00     |
| 74   | Pentachlorobenzene          | 0.288 | 0.279 | 3.1   | 96    | 0.00     |
| 75   | Carbazole                   | 0.867 | 0.899 | -3.7  | 96    | 0.00     |
| 76   | Di-n-butylphthalate         | 1.124 | 1.115 | 0.8   | 97    | 0.00     |
| 77 C | Fluoranthene                | 1.364 | 1.435 | -5.2  | 95    | 0.00     |
| 78 I | Chrysene-d12                | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 79 S | Pyrene-d10                  | 0.911 | 0.880 | 3.4   | 96    | 0.00     |
| 80   | Pyrene                      | 1.168 | 1.132 | 3.1   | 95    | 0.00     |
| 81   | Butylbenzylphthalate        | 0.384 | 0.389 | -1.3  | 97    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine      | 0.366 | 0.401 | -9.6  | 95    | 0.00     |
| 83   | Benzo(a)anthracene          | 1.212 | 1.168 | 3.6   | 93    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate  | 0.563 | 0.557 | 1.1   | 95    | 0.00     |
| 85   | Chrysene                    | 1.141 | 1.098 | 3.8   | 94    | 0.00     |
| 86 I | Perylene-d12                | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 87   | Di-n-octyl phthalate        | 0.971 | 1.022 | -5.3  | 96    | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.232 | 1.171 | 5.0  | 90    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.189 | 1.158 | 2.6  | 94    | 0.00     |
| 90 S | Benzo(a)pyrene-d12     | 1.044 | 1.026 | 1.7  | 94    | 0.00     |
| 91 C | Benzo(a)pyrene         | 1.186 | 1.152 | 2.9  | 94    | 0.00     |
| 92   | Indeno(1,2,3-cd)pyrene | 1.328 | 1.275 | 4.0  | 93    | -0.03    |
| 93   | Dibenzo(a,h)anthracene | 1.091 | 1.058 | 3.0  | 92    | 0.00     |
| 94   | Benzo(a,h,i)perylene   | 1.102 | 1.079 | 2.1  | 94    | -0.02    |

(#) = Out of Range

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