

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
 Data File : BM014418.D  
 Acq On : 01 Mar 2018 01:33  
 Operator : SJ/JU  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTD02025

Quant Time: Mar 01 11:07:42 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 01 03:03:26 2018  
 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                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 20.000 | 20.000 | 0.0   | 86    | 0.00     |
| 2    | 1,4-Dioxane                 | 8.000  | 5.568  | 30.4# | 63    | 0.00     |
| 3 S  | 1,4-Dioxane-d8              | 8.000  | 6.098  | 23.8# | 70    | 0.00     |
| 4    | Benzaldehyde                | 20.000 | 20.778 | -3.9  | 77    | 0.00     |
| 5 S  | Phenol-d5                   | 20.000 | 20.019 | -0.1  | 93    | 0.00     |
| 6    | Phenol                      | 20.000 | 18.603 | 7.0   | 87    | 0.00     |
| 7 S  | Bis-(2-Chloroethyl)ether-d8 | 20.000 | 19.429 | 2.9   | 86    | 0.00     |
| 8    | Bis(2-Chloroethyl)ether     | 20.000 | 20.043 | -0.2  | 89    | 0.00     |
| 9 S  | 2-Chlorophenol-d4           | 20.000 | 21.235 | -6.2  | 92    | 0.00     |
| 10   | 2-Chlorophenol              | 20.000 | 20.132 | -0.7  | 93    | 0.00     |
| 11   | 2-Methylphenol              | 20.000 | 19.984 | 0.1   | 94    | 0.00     |
| 12   | 2,2'-oxybis(1-Chloropropane | 20.000 | 22.124 | -10.6 | 102   | 0.00     |
| 13 S | 4-Methylphenol-d8           | 20.000 | 20.381 | -1.9  | 95    | 0.00     |
| 14   | Acetophenone                | 20.000 | 19.163 | 4.2   | 92    | 0.00     |
| 15 P | N-Nitroso-di-n-propylamine  | 20.000 | 20.416 | -2.1  | 94    | 0.00     |
| 16   | 4-Methylphenol              | 20.000 | 19.654 | 1.7   | 92    | 0.00     |
| 17   | Hexachloroethane            | 20.000 | 19.118 | 4.4   | 85    | 0.00     |
| 18 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 92    | 0.00     |
| 19 S | Nitrobenzene-d5             | 20.000 | 20.963 | -4.8  | 97    | 0.00     |
| 20   | Nitrobenzene                | 20.000 | 19.003 | 5.0   | 90    | 0.00     |
| 21   | Isophorone                  | 20.000 | 20.278 | -1.4  | 96    | 0.00     |
| 22 S | 2-Nitrophenol-d4            | 20.000 | 21.778 | -8.9  | 97    | 0.00     |
| 23 C | 2-Nitrophenol               | 20.000 | 19.520 | 2.4   | 90    | 0.00     |
| 24   | 2,4-Dimethylphenol          | 20.000 | 19.609 | 2.0   | 95    | 0.00     |
| 25   | Bis(2-Chloroethoxy)methane  | 20.000 | 20.290 | -1.4  | 94    | 0.00     |
| 26 S | 2,4-Dichlorophenol-d3       | 20.000 | 19.568 | 2.2   | 89    | 0.00     |
| 27 C | 2,4-Dichlorophenol          | 20.000 | 20.481 | -2.4  | 100   | 0.00     |
| 28   | Naphthalene                 | 20.000 | 19.153 | 4.2   | 91    | 0.00     |
| 29 S | 4-Chloroaniline-d4          | 20.000 | 23.761 | -18.8 | 104   | 0.00     |
| 30   | 4-Chloroaniline             | 20.000 | 23.084 | -15.4 | 101   | 0.00     |
| 31 C | Hexachlorobutadiene         | 20.000 | 17.391 | 13.0  | 84    | 0.00     |
| 32   | Caprolactam                 | 20.000 | 23.935 | -19.7 | 113   | -0.01    |
| 33 C | 4-Chloro-3-methylphenol     | 20.000 | 20.268 | -1.3  | 95    | 0.00     |
| 34   | 2-Methylnaphthalene         | 20.000 | 19.136 | 4.3   | 90    | 0.00     |
| 35 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 90    | 0.00     |
| 36   | 1,2,4,5-Tetrachlorobenzene  | 20.000 | 18.138 | 9.3   | 84    | 0.00     |
| 37   | Hexachlorocyclopentadiene   | 20.000 | 18.513 | 7.4   | 98    | 0.00     |
| 38 C | 2,4,6-Trichlorophenol       | 20.000 | 20.079 | -0.4  | 93    | 0.00     |
| 39   | 2,4,5-Trichlorophenol       | 20.000 | 20.541 | -2.7  | 88    | 0.00     |
| 40   | 1,1'-Biphenyl               | 20.000 | 19.971 | 0.1   | 90    | 0.00     |
| 41   | 2-Chloronaphthalene         | 20.000 | 19.690 | 1.5   | 89    | 0.00     |
| 42   | 2-Nitroaniline              | 20.000 | 20.735 | -3.7  | 93    | 0.00     |
| 43 S | Dimethylphthalate-d6        | 20.000 | 19.904 | 0.5   | 91    | 0.00     |
| 44   | Dimethylphthalate           | 20.000 | 20.281 | -1.4  | 95    | 0.00     |

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 Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 45   | 2,6-Dinitrotoluene          | 20.000 | 21.000 | -5.0  | 95    | 0.00     |
| 46 S | Acenaphthylene-d8           | 20.000 | 19.815 | 0.9   | 91    | 0.00     |
| 47   | Acenaphthylene              | 20.000 | 20.053 | -0.3  | 91    | 0.00     |
| 48   | 3-Nitroaniline              | 20.000 | 21.656 | -8.3  | 111   | 0.00     |
| 49 C | Acenaphthene                | 20.000 | 19.762 | 1.2   | 92    | 0.00     |
| 50   | 2,4-Dinitrophenol           | 20.000 | 23.260 | -16.3 | 145   | 0.00     |
| 51 S | 4-Nitrophenol-d4            | 20.000 | 16.929 | 15.4  | 95    | 0.00     |
| 52   | 4-Nitrophenol               | 20.000 | 17.882 | 10.6  | 93    | 0.00     |
| 53   | Dibenzofuran                | 20.000 | 19.463 | 2.7   | 89    | 0.00     |
| 54   | 2,4-Dinitrotoluene          | 20.000 | 21.160 | -5.8  | 95    | 0.00     |
| 55   | 2,3,4,6-Tetrachlorophenol   | 20.000 | 19.184 | 4.1   | 88    | 0.00     |
| 56   | Diethylphthalate            | 20.000 | 19.376 | 3.1   | 89    | 0.00     |
| 57 S | Fluorene-d10                | 20.000 | 18.972 | 5.1   | 87    | 0.00     |
| 58   | Fluorene                    | 20.000 | 18.719 | 6.4   | 87    | 0.00     |
| 59   | 4-Chlorophenyl-phenylether  | 20.000 | 18.420 | 7.9   | 86    | 0.00     |
| 60   | 4-Nitroaniline              | 20.000 | 19.173 | 4.1   | 105   | 0.00     |
| 61 I | Phenanthrene-d10            | 20.000 | 20.000 | 0.0   | 87    | 0.00     |
| 62 S | 4,6-Dinitro-2-methylphenol- | 20.000 | 17.104 | 14.5  | 86    | 0.00     |
| 63   | 4,6-Dinitro-2-methylphenol  | 20.000 | 18.108 | 9.5   | 89    | 0.00     |
| 64   | N-Nitrosodiphenylamine      | 20.000 | 19.357 | 3.2   | 87    | 0.00     |
| 65   | 4-Bromophenyl-phenylether   | 20.000 | 18.437 | 7.8   | 85    | 0.00     |
| 66   | Hexachlorobenzene           | 20.000 | 18.959 | 5.2   | 88    | 0.00     |
| 67   | Atrazine                    | 20.000 | 19.917 | 0.4   | 92    | 0.00     |
| 68 C | Pentachlorophenol           | 20.000 | 17.690 | 11.5  | 92    | 0.00     |
| 69   | Phenanthrene                | 20.000 | 19.300 | 3.5   | 88    | 0.00     |
| 70 S | Anthracene-d10              | 20.000 | 19.592 | 2.0   | 88    | 0.00     |
| 71   | Anthracene                  | 20.000 | 19.062 | 4.7   | 84    | 0.00     |
| 72   | Carbazole                   | 20.000 | 19.606 | 2.0   | 92    | 0.00     |
| 73   | Di-n-butylphthalate         | 20.000 | 19.844 | 0.8   | 87    | 0.00     |
| 74 C | Fluoranthene                | 20.000 | 19.741 | 1.3   | 90    | 0.00     |
| 75 I | Chrysene-d12                | 20.000 | 20.000 | 0.0   | 93    | 0.00     |
| 76 S | Pyrene-d10                  | 20.000 | 18.399 | 8.0   | 89    | 0.00     |
| 77   | Pyrene                      | 20.000 | 18.388 | 8.1   | 89    | 0.00     |
| 78   | Butylbenzylphthalate        | 20.000 | 19.578 | 2.1   | 92    | 0.00     |
| 79   | 3,3'-Dichlorobenzidine      | 20.000 | 20.807 | -4.0  | 115   | 0.00     |
| 80   | Benzo(a)anthracene          | 20.000 | 19.718 | 1.4   | 95    | 0.00     |
| 81   | Bis(2-ethylhexyl)phthalate  | 20.000 | 19.847 | 0.8   | 94    | 0.00     |
| 82   | Chrysene                    | 20.000 | 19.755 | 1.2   | 94    | 0.00     |
| 83 I | Perylene-d12                | 20.000 | 20.000 | 0.0   | 119   | 0.00     |
| 84   | Di-n-octyl phthalate        | 20.000 | 15.355 | 23.2# | 101   | 0.00     |
| 85   | Benzo(b)fluoranthene        | 20.000 | 17.862 | 10.7  | 107   | 0.00     |
| 86   | Benzo(k)fluoranthene        | 20.000 | 18.203 | 9.0   | 111   | 0.00     |
| 87 S | Benzo(a)pyrene-d12          | 20.000 | 19.425 | 2.9   | 117   | 0.00     |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88 C | Benzo(a)pyrene         | 20.000 | 18.916 | 5.4   | 117   | 0.00     |
| 89   | Indeno(1,2,3-cd)pyrene | 20.000 | 22.839 | -14.2 | 142   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 20.000 | 23.138 | -15.7 | 145   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 20.000 | 23.020 | -15.1 | 146   | 0.00     |

(#) = Out of Range

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