

Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN032719\  
 Data File : BN005014.D  
 Acq On : 28 Mar 2019 02:59  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 28 04:03:21 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-BN032619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 27 05:27:09 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                     | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------------|--------|--------|------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0  | 100   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 40.194 | -0.5 | 101   | 0.00     |
| 3    | Pyridine                     | 40.000 | 40.112 | -0.3 | 102   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 38.568 | 3.6  | 95    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.424 | 2.0  | 98    | 0.00     |
| 6    | Aniline                      | 40.000 | 36.745 | 8.1  | 90    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 74.592 | 6.8  | 92    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 38.227 | 4.4  | 95    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 41.180 | -2.9 | 98    | 0.00     |
| 10 C | Phenol                       | 40.000 | 37.478 | 6.3  | 92    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 37.293 | 6.8  | 92    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.364 | 4.1  | 96    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.667 | 3.3  | 97    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.578 | 3.6  | 95    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 35.693 | 10.8 | 88    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 36.815 | 8.0  | 91    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 36.759 | 8.1  | 89    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 38.222 | 4.4  | 95    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 35.713 | 10.7 | 86    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 36.039 | 9.9  | 88    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 89    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 39.656 | 0.9  | 88    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 79.638 | 0.5  | 89    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.767 | 0.6  | 89    | 0.00     |
| 25   | Isophorone                   | 40.000 | 37.167 | 7.1  | 82    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 38.981 | 2.5  | 87    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.662 | 3.3  | 86    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.632 | 3.4  | 86    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.055 | 2.4  | 87    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.711 | -1.8 | 91    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.635 | 0.9  | 88    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 32.056 | 19.9 | 67    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 38.388 | 4.0  | 85    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.643 | -1.6 | 91    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 35.341 | 11.6 | 74    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 36.707 | 8.2  | 80    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.283 | 4.3  | 85    | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 38.077 | 4.8  | 84    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 81    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.508 | -3.8 | 85    | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 40.779 | -1.9 | 85    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 76.583 | 4.3  | 76    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 40.039 | -0.1 | 81    | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 39.509 | 1.2  | 79    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 80.000 | 82.829 | -3.5  | 84    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 40.981 | -2.5  | 83    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 40.679 | -1.7  | 83    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 38.362 | 4.1   | 77    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 40.062 | -0.2  | 81    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 38.605 | 3.5   | 77    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 38.765 | 3.1   | 78    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 39.808 | 0.5   | 80    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 36.974 | 7.6   | 73    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 35.725 | 10.7  | 69    | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 39.544 | 1.1   | 80    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 36.535 | 8.7   | 73    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 38.521 | 3.7   | 76    | 0.00     |
| 58   | Fluorene                   | 40.000 | 39.363 | 1.6   | 79    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.264 | 4.3   | 76    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 37.739 | 5.7   | 75    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 39.464 | 1.3   | 79    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 37.945 | 5.1   | 74    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 38.226 | 4.4   | 76    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 76    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 38.026 | 4.9   | 72    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.674 | 0.8   | 77    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.404 | 1.5   | 76    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 39.745 | 0.6   | 76    | 0.00     |
| 69   | Atrazine                   | 40.000 | 38.759 | 3.1   | 73    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 36.905 | 7.7   | 72    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 39.674 | 0.8   | 76    | 0.00     |
| 72   | Anthracene                 | 40.000 | 39.938 | 0.2   | 76    | 0.00     |
| 73   | Carbazole                  | 40.000 | 39.847 | 0.4   | 76    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 37.870 | 5.3   | 72    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 40.267 | -0.7  | 76    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 91    | 0.00     |
| 77   | Benzidine                  | 40.000 | 34.813 | 13.0  | 71    | 0.00     |
| 78   | Pyrene                     | 40.000 | 35.181 | 12.0  | 77    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 71.360 | 10.8  | 78    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 34.698 | 13.3  | 77    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 38.863 | 2.8   | 87    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 40.743 | -1.9  | 91    | -0.01    |
| 83   | Chrysene                   | 40.000 | 39.261 | 1.8   | 89    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 36.396 | 9.0   | 81    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 39.297 | 1.8   | 90    | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 49.257 | -23.1 | 122   | -0.01    |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 110   | -0.01    |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 37.537 | 6.2  | 104   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 39.140 | 2.1  | 105   | -0.01    |
| 90 C | Benzo(a)pyrene         | 40.000 | 39.176 | 2.1  | 108   | -0.02    |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 42.917 | -7.3 | 122   | -0.01    |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 42.856 | -7.1 | 123   | -0.01    |

(#) = Out of Range

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