# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011519\
Data File : VN053402.D
Acq On : 15 Jan 2019 12:01
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** ICVVN011519

Quant Time: Jan 16 03:44:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 15 11:52:35 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 | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.432 | 1.1 | 103 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 47.369 | 5.3 | 103 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.285 | 3.4# | 104 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.601 | 8.8 | 101 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.118 | 5.8 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.754 | 0.5 | 107 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 51.336 | -2.7 | 107 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.783 | -1.6 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.513 | 3.0 | 103 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 278.094 | -11.2 | 127 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.467 | 1.1# | 106 | 0.00 |
| 13 | T | Acrolein | 250.000 | 258.703 | -3.5 | 120 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.727 | -3.5 | 108 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 268.125 | -7.2 | 112 | 0.00 |
| 16 | T | Acetone | 250.000 | 249.533 | 0.2 | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.871 | 0.3 | 107 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 52.067 | -4.1 | 112 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.951 | -5.9 | 111 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.537 | 4.9 | 103 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.237 | -0.5 | 106 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.673 | -1.3 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 271.392 | -8.6 | 110 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.263 | 1.5 | 104 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 273.727 | -9.5 | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.099 | -2.2 | 109 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.390 | -0.8 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.668 | 0.7 | 105 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 273.836 | -9.5 | 115 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.365 | 1.3# | 105 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.736 | 0.5 | 108 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.868 | 0.3 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.962 | 0.1 | 107 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.794 | -3.6 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.324 | -2.6 | 106 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.212 | -10.4 | 112 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.868 | -1.7 | 106 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.075 | -8.2 | 111 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.510 | -1.0 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 44.799 | 10.4 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.831 | -1.7 | 106 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.198 | -8.4 | 113 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.627 | -1.3 | 106 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.604 | -1.2# | 105 | 0.00 |

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

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 50.334 | -0.7 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.328 | -0.7 | 105 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.254 | -10.5 | 112 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 996.636 | 0.3 | 112 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.659 | -1.3 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 282.967 | -13.2 | 113 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.664 | -1.3# | 104 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.467 | -6.9 | 107 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.477 | -5.0 | 107 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.864 | -3.7 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.390 | -0.8 | 109 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.754 | -3.5 | 106 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 271.548 | -8.6 | 108 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 285.136 | -14.1 | 115 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.582 | -3.2 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.588 | -5.2 | 107 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.884 | -1.8 | 106 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.854 | 2.3 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.035 | -2.1 | 103 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.221 | -2.4 | 104 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.886 | -3.8# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 105.918 | -5.9 | 104 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.313 | -4.6 | 104 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.790 | -7.6 | 104 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.028 | -8.1 | 107 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.041 | -4.1 | 104 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.524 | -13.0 | 110 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.422 | -8.8 | 112 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 57.127 | -14.3 | 120 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.954 | -1.9 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.821 | -5.6 | 106 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.363 | -2.7 | 105 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.641 | -5.3 | 105 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 52.077 | -4.2 | 114 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.923 | -3.8 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.020 | -6.0 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.057 | -6.1 | 105 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.192 | -6.4 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.970 | -7.9 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.175 | -4.3 | 106 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.979 | -2.0 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.685 | -9.4 | 108 | 0.00 |

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

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 52.296 | -4.6 | 105 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 52.396 | -4.8 | 104 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.105 | -12.2 | 113 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 52.097 | -4.2 | 112 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 56.692 | -13.4 | 109 | 0.00 |
| 95 T | Naphthalene | 50.000 | 51.606 | -3.2 | 115 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.936 | -3.9 | 117 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6