# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW070718\
Data File : VW003754.D
Acq On : 07 Jul 2018 01:50
Operator : SY/AP
Sample : VSTDICV050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** ICVVW070718

Quant Time: Jul 07 05:10:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070718S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 07 05:07:25 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.485 | 1.0 | 101 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 46.454 | 7.1 | 104 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.626 | 8.7# | 100 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 44.483 | 11.0 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.621 | 4.8 | 108 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.959 | -1.9 | 113 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 55.533 | -11.1 | 129 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.364 | -0.7 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.806 | -3.6 | 106 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 287.123 | -14.8 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.162 | -6.3# | 109 | 0.00 |
| 13 | T | Acrolein | 250.000 | 296.631 | -18.7 | 117 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 53.903 | -7.8 | 110 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 272.346 | -8.9 | 105 | 0.00 |
| 16 | T | Acetone | 250.000 | 294.276 | -17.7 | 114 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.342 | -0.7 | 107 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 52.204 | -4.4 | 95 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 54.367 | -8.7 | 105 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.824 | -3.6 | 105 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.947 | -1.9 | 107 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.825 | -5.7 | 106 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 272.255 | -8.9 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.177 | 1.6 | 105 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 268.328 | -7.3 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.088 | 5.8 | 103 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.970 | 0.1 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 47.003 | 6.0 | 104 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 272.774 | -9.1 | 104 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.810 | 2.4# | 105 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.762 | 4.5 | 105 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.347 | 3.3 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.256 | 1.5 | 104 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.140 | 1.7 | 104 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.538 | 0.9 | 104 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.663 | -5.3 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.020 | 4.0 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.930 | -3.9 | 105 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.430 | 1.1 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 58.073 | -16.1 | 116 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.615 | 2.8 | 103 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.869 | -5.7 | 105 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.236 | 1.5 | 105 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.607 | 0.8# | 105 | 0.00 |

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**ClientSampleId :** ICVVW070718

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070718S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 49.502 | 1.0 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.969 | 2.1 | 103 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.970 | -7.9 | 103 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1070.166 | -7.0 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.881 | -1.8 | 106 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 273.709 | -9.5 | 103 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.603 | 0.8# | 103 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.609 | -3.2 | 104 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.658 | -1.3 | 103 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.783 | 0.4 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 55.326 | -10.7 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.675 | -1.3 | 103 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 262.172 | -4.9 | 104 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 274.984 | -10.0 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.225 | -0.5 | 102 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.330 | -0.7 | 102 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.543 | -1.1 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.062 | -0.1 | 103 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.107 | -0.2 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.292 | -0.6 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.978 | -4.0# | 103 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.382 | -3.4 | 102 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.913 | -5.8 | 103 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.801 | -5.6 | 101 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.209 | -4.4 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.842 | -7.7 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.645 | -13.3 | 104 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 52.467 | -4.9 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.136 | -0.3 | 106 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.592 | -3.2 | 103 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.186 | -6.4 | 102 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.591 | -5.2 | 103 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.831 | -5.7 | 101 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.104 | -8.2 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.604 | -3.2 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.956 | -7.9 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.722 | -5.4 | 100 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.167 | -6.3 | 102 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.417 | -6.8 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.785 | -1.6 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.870 | 0.3 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.890 | -5.8 | 101 | 0.00 |

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

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 50.655 | -1.3 | 101 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 50.810 | -1.6 | 101 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.595 | -7.2 | 101 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 52.891 | -5.8 | 102 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 50.935 | -1.9 | 102 | 0.00 |
| 95 T | Naphthalene | 50.000 | 58.836 | -17.7 | 103 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 53.679 | -7.4 | 102 | 0.00 |

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