# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW122118\
Data File : VW007721.D
Acq On : 20 Dec 2018 02:30
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Dec 20 07:44:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 06:30:23 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 | 102 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 43.076 | 13.8 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 55.594 | -11.2 | 117 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 53.712 | -7.4# | 115 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 55.525 | -11.0 | 123 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 57.352 | -14.7 | 123 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 45.333 | 9.3 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 54.389 | -8.8 | 111 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 44.633 | 10.7 | 95 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.106 | -0.2 | 106 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 249.766 | 0.1 | 112 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.438 | 5.1# | 101 | 0.00 |
| 13 | T | Acrolein | 250.000 | 227.122 | 9.2 | 102 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.816 | -3.6 | 111 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 248.193 | 0.7 | 104 | 0.00 |
| 16 | T | Acetone | 250.000 | 209.735 | 16.1 | 87 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.024 | 4.0 | 103 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 51.832 | -3.7 | 105 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.359 | -6.7 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.126 | -2.3 | 103 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.600 | 2.8 | 106 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 54.843 | -9.7 | 114 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 257.863 | -3.1 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.436 | -0.9 | 109 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 233.092 | 6.8 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.497 | 9.0 | 100 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.755 | -1.5 | 108 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 59.530 | -19.1 | 126 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 258.985 | -3.6 | 107 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.889 | 0.2# | 106 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.545 | 8.9 | 104 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.218 | 3.6 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.674 | -5.3 | 111 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 53.124 | -6.2 | 117 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 46.845 | 6.3 | 104 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.175 | 3.7 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 43.919 | 12.2 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 45.208 | 9.6 | 100 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.412 | 3.2 | 108 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 50.011 | -0.0 | 107 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.385 | 7.2 | 102 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 48.545 | 2.9 | 105 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 46.970 | 6.1 | 106 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.355 | -0.7# | 109 | 0.00 |

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**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

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Quant Title : SW846 8260
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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 | 47.305 | 5.4 | 104 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.422 | 3.2 | 106 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.596 | 0.8 | 108 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 989.822 | 1.0 | 106 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 54.073 | -8.1 | 118 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 241.738 | 3.3 | 105 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.735 | 2.5# | 108 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.719 | 4.6 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.747 | 2.5 | 108 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.297 | 3.4 | 109 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 49.957 | 0.1 | 105 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.105 | 1.8 | 109 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 279.273 | -11.7 | 118 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 235.337 | 5.9 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 47.302 | 5.4 | 103 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.022 | 6.0 | 105 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 53.448 | -6.9 | 117 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.381 | 1.2 | 110 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 47.842 | 4.3 | 108 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.192 | 3.6 | 106 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.032 | 1.9# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 96.543 | 3.5 | 106 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 48.898 | 2.2 | 107 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.627 | 0.7 | 108 | 0.00 |
| 71 | P | Bromoform | 50.000 | 46.927 | 6.1 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 48.145 | 3.7 | 105 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.968 | 0.1 | 107 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.468 | 5.1 | 103 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 52.913 | -5.8 | 101 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 47.957 | 4.1 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 48.094 | 3.8 | 105 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.967 | 2.1 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 48.523 | 3.0 | 105 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 46.944 | 6.1 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.704 | 2.6 | 107 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 48.666 | 2.7 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.364 | 1.3 | 107 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.839 | 4.3 | 104 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 47.967 | 4.1 | 104 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.352 | 3.3 | 107 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.337 | 3.3 | 107 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 47.783 | 4.4 | 104 | 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 | 47.725 | 4.5 | 104 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 48.371 | 3.3 | 106 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.866 | 10.3 | 94 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 48.235 | 3.5 | 105 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 46.194 | 7.6 | 102 | 0.00 |
| 95 T | Naphthalene | 50.000 | 50.074 | -0.1 | 104 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.018 | 4.0 | 103 | 0.00 |

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