# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091918\
Data File : VD060036.D
Acq On : 19 Sep 2018 10:34
Operator : JC/SY
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: Sep 21 16:09:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 114 | 0.04 |
| 2 | T | Dichlorodifluoromethane | 0.528 | 0.523 | 0.9 | 106 | 0.03 |
| 3 | P | Chloromethane | 0.466 | 0.455 | 2.4 | 120 | 0.03 |
| 4 | C | Vinyl Chloride | 0.375 | 0.379 | -1.1# | 118 | 0.03 |
| 5 | T | Bromomethane | 0.044 | 0.053 | -20.5# | 98 | 0.03 |
| 6 | T | Chloroethane | 0.084 | 0.109 | -29.8# | 109 | 0.03 |
| 7 | T | Trichlorofluoromethane | 0.413 | 0.441 | -6.8 | 111 | 0.03 |
| 8 | T | Diethyl Ether | 0.088 | 0.092 | -4.5 | 113 | 0.04 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.260 | 0.285 | -9.6 | 119 | 0.05 |
| 10 | T | Methyl Iodide | 0.276 | 0.328 | -18.8 | 118 | 0.04 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.026 | 16.1 | 92 | 0.04 |
| 12 | CM | 1,1-Dichloroethene | 0.206 | 0.226 | -9.7# | 120 | 0.04 |
| 13 | T | Acrolein | 0.019 | 0.017 | 10.5 | 109 | 0.04 |
| 14 | T | Allyl chloride | 0.434 | 0.463 | -6.7 | 114 | 0.04 |
| 15 | T | Acrylonitrile | 0.119 | 0.114 | 4.2 | 104 | 0.04 |
| 16 | T | Acetone | 0.075 | 0.081 | -8.0 | 121 | 0.04 |
| 17 | T | Carbon Disulfide | 0.709 | 0.748 | -5.5 | 113 | 0.04 |
| 18 | T | Methyl Acetate | 0.153 | 0.166 | -8.5 | 120 | 0.04 |
| 19 | T | Methyl tert-butyl Ether | 0.951 | 0.933 | 1.9 | 106 | 0.04 |
| 20 | T | Methylene Chloride | 0.638 | 0.536 | 16.0 | 101 | 0.04 |
| 21 | T | trans-1,2-Dichloroethene | 0.540 | 0.546 | -1.1 | 107 | 0.04 |
| 22 | T | Diisopropyl ether | 1.979 | 1.982 | -0.2 | 106 | 0.04 |
| 23 | T | Vinyl Acetate | 1.121 | 1.100 | 1.9 | 103 | 0.04 |
| 24 | P | 1,1-Dichloroethane | 0.888 | 0.887 | 0.1 | 106 | 0.04 |
| 25 | T | 2-Butanone | 0.203 | 0.181 | 10.8 | 102 | 0.04 |
| 26 | T | 2,2-Dichloropropane | 0.690 | 0.726 | -5.2 | 114 | 0.05 |
| 27 | T | cis-1,2-Dichloroethene | 0.565 | 0.578 | -2.3 | 109 | 0.04 |
| 28 | T | Bromochloromethane | 0.427 | 0.436 | -2.1 | 119 | 0.04 |
| 29 | | Tetrahydrofuran | 0.109 | 0.101 | 7.3 | 101 | 0.04 |
| 30 | C | Chloroform | 0.901 | 0.934 | -3.7# | 109 | 0.04 |
| 31 | T | Cyclohexane | 0.866 | 0.812 | 6.2 | 102 | 0.04 |
| 32 | T | 1,1,1-Trichloroethane | 0.747 | 0.762 | -2.0 | 107 | 0.04 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.390 | 0.357 | 8.5 | 105 | 0.03 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 114 | 0.03 |
| 35 | S | Dibromofluoromethane | 0.391 | 0.366 | 6.4 | 107 | 0.03 |
| 36 | T | 1,1-Dichloropropene | 0.497 | 0.514 | -3.4 | 112 | 0.04 |
| 37 | T | Ethyl Acetate | 0.342 | 0.343 | -0.3 | 113 | 0.04 |
| 38 | T | Carbon Tetrachloride | 0.464 | 0.472 | -1.7 | 108 | 0.04 |
| 39 | T | Methylcyclohexane | 0.562 | 0.573 | -2.0 | 109 | 0.04 |
| 40 | TM | Benzene | 1.266 | 1.295 | -2.3 | 108 | 0.03 |
| 41 | T | Methacrylonitrile | 0.179 | 0.189 | -5.6 | 110 | 0.04 |
| 42 | TM | 1,2-Dichloroethane | 0.380 | 0.375 | 1.3 | 106 | 0.03 |
| 43 | T | Isopropyl Acetate | 0.457 | 0.423 | 7.4 | 97 | 0.03 |
| 44 | TM | Trichloroethene | 0.391 | 0.396 | -1.3 | 107 | 0.03 |
| 45 | C | 1,2-Dichloropropane | 0.338 | 0.343 | -1.5# | 106 | 0.03 |

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ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: Sep 21 16:09:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.221 | 0.221 | 0.0 | 105 | 0.04 |
| 47 | T | Bromodichloromethane | 0.476 | 0.491 | -3.2 | 110 | 0.04 |
| 48 | T | Methyl methacrylate | 0.255 | 0.249 | 2.4 | 102 | 0.04 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.002 | 33.3# | 98 | 0.03 |
| 50 | S | Toluene-d8 | 1.083 | 1.037 | 4.2 | 111 | 0.03 |
| 51 | T | 4-Methyl-2-Pentanone | 0.311 | 0.279 | 10.3 | 107 | 0.03 |
| 52 | CM | Toluene | 0.811 | 0.834 | -2.8# | 109 | 0.03 |
| 53 | T | t-1,3-Dichloropropene | 0.444 | 0.465 | -4.7 | 113 | 0.03 |
| 54 | T | cis-1,3-Dichloropropene | 0.531 | 0.551 | -3.8 | 110 | 0.03 |
| 55 | T | 1,1,2-Trichloroethane | 0.282 | 0.265 | 6.0 | 106 | 0.03 |
| 56 | T | Ethyl methacrylate | 0.312 | 0.312 | 0.0 | 105 | 0.03 |
| 57 | T | 1,3-Dichloropropane | 0.416 | 0.427 | -2.6 | 109 | 0.03 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.151 | 0.153 | -1.3 | 116 | 0.03 |
| 59 | T | 2-Hexanone | 0.225 | 0.203 | 9.8 | 106 | 0.03 |
| 60 | T | Dibromochloromethane | 0.343 | 0.354 | -3.2 | 107 | 0.03 |
| 61 | T | 1,2-Dibromoethane | 0.291 | 0.289 | 0.7 | 108 | 0.02 |
| 62 | S | 4-Bromofluorobenzene | 0.414 | 0.379 | 8.5 | 104 | 0.02 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 113 | 0.02 |
| 64 | T | Tetrachloroethene | 0.441 | 0.462 | -4.8 | 110 | 0.03 |
| 65 | PM | Chlorobenzene | 1.075 | 1.123 | -4.5 | 108 | 0.02 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.363 | 0.379 | -4.4 | 107 | 0.02 |
| 67 | C | Ethyl Benzene | 1.730 | 1.801 | -4.1# | 107 | 0.02 |
| 68 | T | m/p-Xylenes | 0.639 | 0.678 | -6.1 | 107 | 0.02 |
| 69 | T | o-Xylene | 0.633 | 0.685 | -8.2 | 111 | 0.02 |
| 70 | T | Styrene | 1.064 | 1.135 | -6.7 | 110 | 0.02 |
| 71 | P | Bromoform | 0.312 | 0.328 | -5.1 | 106 | 0.02 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 73 | T | Isopropylbenzene | 3.279 | 3.348 | -2.1 | 106 | 0.02 |
| 74 | T | N-amyl acetate | 1.299 | 1.272 | 2.1 | 104 | 0.02 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.744 | 0.724 | 2.7 | 103 | 0.02 |
| 76 | T | 1,2,3-Trichloropropane | 0.764 | 0.740 | 3.1 | 102 | 0.02 |
| 77 | T | Bromobenzene | 0.945 | 0.983 | -4.0 | 110 | 0.02 |
| 78 | T | n-propylbenzene | 4.124 | 4.122 | 0.0 | 105 | 0.02 |
| 79 | T | 2-Chlorotoluene | 2.327 | 2.321 | 0.3 | 105 | 0.02 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.513 | 2.549 | -1.4 | 104 | 0.02 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.231 | 0.224 | 3.0 | 103 | 0.02 |
| 82 | T | 4-Chlorotoluene | 2.559 | 2.578 | -0.7 | 107 | 0.02 |
| 83 | T | tert-Butylbenzene | 2.912 | 3.005 | -3.2 | 107 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.682 | 2.711 | -1.1 | 108 | 0.02 |
| 85 | T | sec-Butylbenzene | 3.456 | 3.509 | -1.5 | 107 | 0.02 |
| 86 | T | p-Isopropyltoluene | 2.796 | 2.882 | -3.1 | 105 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.643 | 1.682 | -2.4 | 107 | 0.02 |
| 88 | T | 1,4-Dichlorobenzene | 1.666 | 1.669 | -0.2 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 2.727 | 2.869 | -5.2 | 112 | 0.00 |

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**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: Sep 21 16:09:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.692 | 0.714 | -3.2 | 104 | 0.02 |
| 91 T | 1,2-Dichlorobenzene | 1.363 | 1.430 | -4.9 | 111 | 0.02 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.113 | 0.103 | 8.8 | 107 | 0.02 |
| 93 T | 1,2,4-Trichlorobenzene | 1.171 | 1.181 | -0.9 | 103 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.774 | 0.807 | -4.3 | 107 | 0.02 |
| 95 T | Naphthalene | 1.808 | 1.718 | 5.0 | 100 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.032 | 0.987 | 4.4 | 99 | 0.00 |

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