# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN031120\
Data File : VN060435.D
Acq On : 11 Mar 2020 8:53
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

Quant Time: Mar 12 03:47:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.458 | 0.394 | 14.0 | 78 | 0.00 |
| 3 | P | Chloromethane | 0.798 | 0.708 | 11.3 | 84 | 0.00 |
| 4 | C | Vinyl Chloride | 0.684 | 0.590 | 13.7# | 80 | 0.00 |
| 5 | T | Bromomethane | 0.301 | 0.241 | 19.9 | 78 | 0.00 |
| 6 | T | Chloroethane | 0.371 | 0.336 | 9.4 | 85 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.875 | 0.803 | 8.2 | 85 | 0.00 |
| 8 | T | Diethyl Ether | 0.330 | 0.315 | 4.5 | 87 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.495 | 0.481 | 2.8 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 0.452 | 0.366 | 19.0 | 75 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.095 | 0.095 | 0.0 | 88 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.525 | 0.464 | 11.6# | 85 | 0.00 |
| 13 | T | Acrolein | 0.089 | 0.095 | -6.7 | 89 | 0.00 |
| 14 | T | Allyl chloride | 0.886 | 0.796 | 10.2 | 80 | 0.00 |
| 15 | T | Acrylonitrile | 0.251 | 0.268 | -6.8 | 92 | 0.00 |
| 16 | T | Acetone | 0.207 | 0.229 | -10.6 | 100 | 0.00 |
| 17 | T | Carbon Disulfide | 1.490 | 1.123 | 24.6 | 77 | 0.00 |
| 18 | T | Methyl Acetate | 0.691 | 0.715 | -3.5 | 98 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.744 | 1.754 | -0.6 | 92 | 0.00 |
| 20 | T | Methylene Chloride | 0.569 | 0.550 | 3.3 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.595 | 0.496 | 16.6 | 86 | 0.00 |
| 22 | T | Diisopropyl ether | 1.794 | 1.910 | -6.5 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.426 | 1.514 | -6.2 | 93 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.016 | 1.033 | -1.7 | 92 | 0.00 |
| 25 | T | 2-Butanone | 0.335 | 0.386 | -15.2 | 102 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.925 | 0.945 | -2.2 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.660 | 0.620 | 6.1 | 91 | 0.00 |
| 28 | T | Bromochloromethane | 0.417 | 0.429 | -2.9 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.233 | 0.239 | -2.6 | 92 | 0.00 |
| 30 | C | Chloroform | 1.011 | 1.043 | -3.2# | 94 | 0.00 |
| 31 | T | Cyclohexane | 0.942 | 0.872 | 7.4 | 89 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.896 | 0.892 | 0.4 | 91 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.642 | 0.649 | -1.1 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.232 | 0.296 | -27.6# | 116 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.477 | 0.460 | 3.6 | 91 | 0.00 |
| 37 | T | Ethyl Acetate | 0.451 | 0.476 | -5.5 | 94 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.464 | 0.451 | 2.8 | 88 | 0.00 |
| 39 | T | Methylcyclohexane | 0.562 | 0.524 | 6.8 | 87 | 0.00 |
| 40 | TM | Benzene | 1.387 | 1.397 | -0.7 | 92 | 0.00 |
| 41 | T | Methacrylonitrile | 0.208 | 0.229 | -10.1 | 95 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.509 | -1.8 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.790 | 0.843 | -6.7 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 0.386 | 0.377 | 2.3 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.363 | 0.390 | -7.4# | 96 | 0.00 |

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ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.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 : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.235 | 0.242 | -3.0 | 92 | 0.00 |
| 47 | T | Bromodichloromethane | 0.479 | 0.512 | -6.9 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.360 | 0.374 | -3.9 | 93 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.005 | 0.005 | 0.0 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 1.175 | 1.187 | -1.0 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.448 | 0.490 | -9.4 | 95 | 0.00 |
| 52 | CM | Toluene | 0.871 | 0.878 | -0.8# | 92 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.596 | -1.7 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.608 | 0.627 | -3.1 | 94 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.350 | 0.355 | -1.4 | 94 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.503 | 0.558 | -10.9 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.571 | 0.602 | -5.4 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.263 | 0.279 | -6.1 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 0.329 | 0.377 | -14.6 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 0.356 | 0.391 | -9.8 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.342 | 0.358 | -4.7 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.445 | 0.461 | -3.6 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 88 | 0.00 |
| 64 | T | Tetrachloroethene | 0.444 | 0.405 | 8.8 | 89 | 0.00 |
| 65 | PM | Chlorobenzene | 1.010 | 1.011 | -0.1 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.373 | 0.388 | -4.0 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.839 | 1.869 | -1.6# | 92 | 0.00 |
| 68 | T | m/p-Xylenes | 0.694 | 0.698 | -0.6 | 93 | 0.00 |
| 69 | T | o-Xylene | 0.661 | 0.673 | -1.8 | 93 | 0.00 |
| 70 | T | Styrene | 1.088 | 1.126 | -3.5 | 92 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.302 | -12.3 | 95 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 3.706 | 3.668 | 1.0 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 1.619 | 1.654 | -2.2 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.007 | 1.094 | -8.6 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.097 | 1.003 | 8.6 | 84 | 0.00 |
| 77 | T | Bromobenzene | 0.908 | 0.889 | 2.1 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 4.344 | 4.357 | -0.3 | 93 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.554 | 2.530 | 0.9 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.120 | 3.111 | 0.3 | 92 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.397 | 0.428 | -7.8 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.690 | 2.676 | 0.5 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.701 | 2.642 | 2.2 | 90 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.149 | 3.138 | 0.3 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.618 | 3.590 | 0.8 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.348 | 3.255 | 2.8 | 92 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.706 | 1.628 | 4.6 | 92 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.697 | 1.631 | 3.9 | 94 | 0.00 |
| 89 | T | n-Butylbenzene | 3.074 | 3.005 | 2.2 | 92 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.485 | 0.470 | 3.1 | 87 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.592 | 1.550 | 2.6 | 91 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.228 | 0.230 | -0.9 | 94 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.130 | 1.005 | 11.1 | 89 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.536 | 0.483 | 9.9 | 92 | 0.00 |
| 95 T | Naphthalene | 3.258 | 2.850 | 12.5 | 85 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.062 | 0.928 | 12.6 | 87 | 0.00 |

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