# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN070920\
Data File : VN062457.D
Acq On : 9 Jul 2020 15:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Jul 10 01:20:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 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 | 117 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.509 | 0.547 | -7.5 | 121 | 0.00 |
| 3 | P | Chloromethane | 0.817 | 0.791 | 3.2 | 114 | 0.00 |
| 4 | C | Vinyl Chloride | 0.670 | 0.735 | -9.7# | 126 | 0.00 |
| 5 | T | Bromomethane | 0.360 | 0.304 | 15.6 | 98 | 0.00 |
| 6 | T | Chloroethane | 0.390 | 0.445 | -14.1 | 129 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.850 | 0.928 | -9.2 | 126 | 0.00 |
| 8 | T | Diethyl Ether | 0.380 | 0.428 | -12.6 | 128 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.504 | 0.582 | -15.5 | 131 | 0.00 |
| 10 | T | Methyl Iodide | 0.666 | 0.485 | 27.2# | 80 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.128 | 0.132 | -3.1 | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.513 | 0.559 | -9.0# | 124 | 0.00 |
| 13 | T | Acrolein | 0.092 | 0.084 | 8.7 | 108 | 0.00 |
| 14 | T | Allyl chloride | 1.207 | 1.256 | -4.1 | 118 | 0.00 |
| 15 | T | Acrylonitrile | 0.335 | 0.353 | -5.4 | 115 | 0.00 |
| 16 | T | Acetone | 0.327 | 0.386 | -18.0 | 142 | 0.00 |
| 17 | T | Carbon Disulfide | 1.608 | 1.657 | -3.0 | 120 | 0.00 |
| 18 | T | Methyl Acetate | 0.815 | 0.810 | 0.6 | 116 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.946 | 2.160 | -11.0 | 126 | 0.00 |
| 20 | T | Methylene Chloride | 0.698 | 0.700 | -0.3 | 124 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.556 | 0.607 | -9.2 | 122 | 0.00 |
| 22 | T | Diisopropyl ether | 2.385 | 2.564 | -7.5 | 120 | 0.00 |
| 23 | T | Vinyl Acetate | 1.975 | 2.134 | -8.1 | 118 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.232 | 1.338 | -8.6 | 123 | 0.00 |
| 25 | T | 2-Butanone | 0.477 | 0.515 | -8.0 | 120 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.945 | 1.093 | -15.7 | 134 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.644 | 0.718 | -11.5 | 125 | 0.00 |
| 28 | T | Bromochloromethane | 0.669 | 0.679 | -1.5 | 118 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.321 | 0.326 | -1.6 | 113 | 0.00 |
| 30 | C | Chloroform | 1.113 | 1.243 | -11.7# | 126 | 0.00 |
| 31 | T | Cyclohexane | 1.168 | 1.184 | -1.4 | 121 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.925 | 1.034 | -11.8 | 126 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.769 | 0.748 | 2.7 | 113 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.309 | 0.313 | -1.3 | 114 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.504 | 0.563 | -11.7 | 123 | 0.00 |
| 37 | T | Ethyl Acetate | 0.589 | 0.595 | -1.0 | 114 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.453 | 0.518 | -14.3 | 126 | 0.00 |
| 39 | T | Methylcyclohexane | 0.538 | 0.645 | -19.9 | 129 | 0.00 |
| 40 | TM | Benzene | 1.485 | 1.645 | -10.8 | 123 | 0.00 |
| 41 | T | Methacrylonitrile | 0.246 | 0.306 | -24.4 | 130 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.544 | 0.620 | -14.0 | 126 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.931 | 1.014 | -8.9 | 118 | 0.00 |
| 44 | TM | Trichloroethene | 0.329 | 0.380 | -15.5 | 128 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.431 | 0.483 | -12.1# | 124 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.243 | 0.278 | -14.4 | 127 | 0.00 |
| 47 | T | Bromodichloromethane | 0.520 | 0.592 | -13.8 | 124 | 0.00 |
| 48 | T | Methyl methacrylate | 0.456 | 0.498 | -9.2 | 119 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.007 | 0.0 | 119 | 0.00 |
| 50 | S | Toluene-d8 | 1.220 | 1.240 | -1.6 | 115 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.556 | 0.604 | -8.6 | 115 | 0.00 |
| 52 | CM | Toluene | 0.858 | 0.996 | -16.1# | 128 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.583 | 0.690 | -18.4 | 127 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.643 | 0.737 | -14.6 | 125 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.337 | 0.388 | -15.1 | 124 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.564 | 0.665 | -17.9 | 122 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.623 | 0.711 | -14.1 | 124 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.200 | 0.274 | -37.0# | 148 | 0.00 |
| 59 | T | 2-Hexanone | 0.403 | 0.449 | -11.4 | 118 | 0.00 |
| 60 | T | Dibromochloromethane | 0.366 | 0.427 | -16.7 | 126 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.340 | 0.391 | -15.0 | 125 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.446 | 0.467 | -4.7 | 119 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 118 | 0.00 |
| 64 | T | Tetrachloroethene | 0.297 | 0.332 | -11.8 | 128 | 0.00 |
| 65 | PM | Chlorobenzene | 0.972 | 1.116 | -14.8 | 127 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.358 | 0.414 | -15.6 | 126 | 0.00 |
| 67 | C | Ethyl Benzene | 1.824 | 2.122 | -16.3# | 127 | 0.00 |
| 68 | T | m/p-Xylenes | 0.646 | 0.771 | -19.3 | 130 | 0.00 |
| 69 | T | o-Xylene | 0.629 | 0.737 | -17.2 | 129 | 0.00 |
| 70 | T | Styrene | 1.039 | 1.271 | -22.3 | 129 | 0.00 |
| 71 | P | Bromoform | 0.263 | 0.310 | -17.9 | 123 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 119 | 0.00 |
| 73 | T | Isopropylbenzene | 3.869 | 4.342 | -12.2 | 130 | 0.00 |
| 74 | T | N-amyl acetate | 1.883 | 2.147 | -14.0 | 122 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.301 | 1.394 | -7.1 | 124 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.227 | 1.216 | 0.9 | 122 | 0.00 |
| 77 | T | Bromobenzene | 0.880 | 0.979 | -11.2 | 130 | 0.00 |
| 78 | T | n-propylbenzene | 4.520 | 5.184 | -14.7 | 129 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.743 | 3.072 | -12.0 | 129 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.172 | 3.672 | -15.8 | 131 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.458 | 0.472 | -3.1 | 118 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.785 | 3.237 | -16.2 | 132 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.692 | 3.057 | -13.6 | 130 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.153 | 3.705 | -17.5 | 134 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.567 | 4.167 | -16.8 | 132 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.078 | 3.695 | -20.0 | 133 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.517 | 1.806 | -19.1 | 134 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.561 | 1.774 | -13.6 | 131 | 0.00 |
| 89 | T | n-Butylbenzene | 2.718 | 3.364 | -23.8 | 140 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.606 | 0.667 | -10.1 | 125 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.467 | 1.703 | -16.1 | 130 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.261 | -10.1 | 122 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.661 | 0.890 | -34.6# | 137 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.390 | 0.467 | -19.7 | 136 | 0.00 |
| 95 T | Naphthalene | 1.865 | 2.336 | -25.3# | 131 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.688 | 0.869 | -26.3# | 135 | 0.00 |

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