# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN111920\
Data File : VN064750.D
Acq On : 19 Nov 2020 22:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 29 Sample Multiplier: 1

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

Quant Time: Nov 20 05:38:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 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 | 128 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.537 | 14.1 | 113 | 0.00 |
| 3 | P | Chloromethane | 0.691 | 0.702 | -1.6 | 136 | 0.00 |
| 4 | C | Vinyl Chloride | 0.721 | 0.729 | -1.1# | 132 | 0.00 |
| 5 | T | Bromomethane | 0.529 | 0.437 | 17.4 | 109 | 0.00 |
| 6 | T | Chloroethane | 0.486 | 0.448 | 7.8 | 117 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.291 | 1.001 | 22.5 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.417 | 0.373 | 10.6 | 116 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.558 | 0.559 | -0.2 | 129 | 0.00 |
| 10 | T | Methyl Iodide | 0.667 | 0.622 | 6.7 | 116 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.085 | 0.088 | -3.5 | 129 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.538 | 0.546 | -1.5# | 132 | 0.00 |
| 13 | T | Acrolein | 0.020 | 0.032 | -60.0# | 180# | 0.00 |
| 14 | T | Allyl chloride | 0.923 | 0.981 | -6.3 | 134 | 0.00 |
| 15 | T | Acrylonitrile | 0.251 | 0.291 | -15.9 | 144 | 0.00 |
| 16 | T | Acetone | 0.217 | 0.253 | -16.6 | 156# | 0.00 |
| 17 | T | Carbon Disulfide | 1.673 | 1.580 | 5.6 | 131 | 0.00 |
| 18 | T | Methyl Acetate | 0.664 | 0.694 | -4.5 | 144 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.799 | 1.824 | -1.4 | 122 | 0.00 |
| 20 | T | Methylene Chloride | 0.651 | 0.648 | 0.5 | 132 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.600 | 0.594 | 1.0 | 127 | 0.00 |
| 22 | T | Diisopropyl ether | 1.949 | 2.116 | -8.6 | 133 | 0.00 |
| 23 | T | Vinyl Acetate | 1.573 | 1.697 | -7.9 | 129 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.142 | 1.165 | -2.0 | 129 | 0.00 |
| 25 | T | 2-Butanone | 0.336 | 0.384 | -14.3 | 140 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.085 | 0.891 | 17.9 | 103 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.661 | 0.680 | -2.9 | 129 | 0.00 |
| 28 | T | Bromochloromethane | 0.576 | 0.565 | 1.9 | 130 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.227 | 0.259 | -14.1 | 136 | 0.00 |
| 30 | C | Chloroform | 1.241 | 1.199 | 3.4# | 122 | 0.00 |
| 31 | T | Cyclohexane | 0.951 | 0.959 | -0.8 | 135 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.134 | 1.043 | 8.0 | 118 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.880 | 0.747 | 15.1 | 113 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 124 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.285 | 0.301 | -5.6 | 135 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.514 | 0.513 | 0.2 | 123 | 0.00 |
| 37 | T | Ethyl Acetate | 0.431 | 0.498 | -15.5 | 133 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.547 | 0.537 | 1.8 | 117 | 0.00 |
| 39 | T | Methylcyclohexane | 0.456 | 0.486 | -6.6 | 132 | 0.00 |
| 40 | TM | Benzene | 1.433 | 1.534 | -7.0 | 129 | 0.00 |
| 41 | T | Methacrylonitrile | 0.197 | 0.246 | -24.9 | 148 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.617 | 0.568 | 7.9 | 112 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.835 | 0.818 | 2.0 | 121 | 0.00 |
| 44 | TM | Trichloroethene | 0.411 | 0.405 | 1.5 | 126 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.382 | 0.412 | -7.9# | 130 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.271 | 0.268 | 1.1 | 118 | 0.00 |
| 47 | T | Bromodichloromethane | 0.569 | 0.560 | 1.6 | 118 | 0.00 |
| 48 | T | Methyl methacrylate | 0.394 | 0.416 | -5.6 | 124 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.005 | 0.005 | 0.0 | 136 | 0.00 |
| 50 | S | Toluene-d8 | 1.293 | 1.260 | 2.6 | 124 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.452 | 0.503 | -11.3 | 127 | 0.00 |
| 52 | CM | Toluene | 0.883 | 0.943 | -6.8# | 124 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.609 | 0.591 | 3.0 | 114 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.627 | 0.638 | -1.8 | 122 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.354 | 0.369 | -4.2 | 123 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.492 | 0.530 | -7.7 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.613 | 0.641 | -4.6 | 125 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.270 | 0.306 | -13.3 | 127 | 0.00 |
| 59 | T | 2-Hexanone | 0.326 | 0.361 | -10.7 | 125 | 0.00 |
| 60 | T | Dibromochloromethane | 0.409 | 0.416 | -1.7 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.378 | 0.376 | 0.5 | 119 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.483 | 0.447 | 7.5 | 117 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 120 | 0.00 |
| 64 | T | Tetrachloroethene | 0.443 | 0.463 | -4.5 | 125 | 0.00 |
| 65 | PM | Chlorobenzene | 1.064 | 1.060 | 0.4 | 118 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.397 | 0.404 | -1.8 | 121 | 0.00 |
| 67 | C | Ethyl Benzene | 1.875 | 1.934 | -3.1# | 119 | 0.00 |
| 68 | T | m/p-Xylenes | 0.675 | 0.726 | -7.6 | 120 | 0.00 |
| 69 | T | o-Xylene | 0.654 | 0.677 | -3.5 | 118 | 0.00 |
| 70 | T | Styrene | 1.112 | 1.171 | -5.3 | 117 | 0.00 |
| 71 | P | Bromoform | 0.274 | 0.281 | -2.6 | 118 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 73 | T | Isopropylbenzene | 3.550 | 4.017 | -13.2 | 116 | 0.00 |
| 74 | T | N-amyl acetate | 1.658 | 1.833 | -10.6 | 112 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.993 | 1.112 | -12.0 | 118 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.077 | 1.243 | -15.4 | 118 | 0.00 |
| 77 | T | Bromobenzene | 0.895 | 0.987 | -10.3 | 117 | 0.00 |
| 78 | T | n-propylbenzene | 4.134 | 4.731 | -14.4 | 116 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.646 | 2.803 | -5.9 | 112 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.949 | 3.287 | -11.5 | 111 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.387 | 0.424 | -9.6 | 110 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.821 | 2.912 | -3.2 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.281 | 2.447 | -7.3 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.010 | 3.184 | -5.8 | 106 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.041 | 3.181 | -4.6 | 105 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.797 | 2.925 | -4.6 | 104 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.631 | 1.555 | 4.7 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.675 | 1.595 | 4.8 | 103 | 0.00 |
| 89 | T | n-Butylbenzene | 2.611 | 2.538 | 2.8 | 100 | 0.00 |

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

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.462 | 0.455 | 1.5 | 100 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.594 | 1.422 | 10.8 | 96 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.260 | 0.250 | 3.8 | 104 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.869 | 0.709 | 18.4 | 92 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.436 | 0.317 | 27.3# | 99 | 0.00 |
| 95 T | Naphthalene | 2.810 | 2.725 | 3.0 | 102 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.839 | 0.824 | 1.8 | 109 | 0.00 |

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