# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122122\
Data File : VN075908.D
Acq On : 21 Dec 2022 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 21 14:14:48 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 14 13:03:41 2022
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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 118 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.370 | 9.3 | 108 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.535 | 12.9 | 109 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 43.829 | 12.3# | 105 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 42.568 | 14.9 | 101 | 0.02 |
| 6 | T | Chloroethane | 50.000 | 44.195 | 11.6 | 107 | 0.01 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.263 | 3.5 | 113 | 0.01 |
| 8 | T | Diethyl Ether | 50.000 | 51.205 | -2.4 | 117 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.789 | -3.6 | 121 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.914 | 2.2 | 112 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 216.302 | 13.5 | 101 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.807 | 0.4# | 116 | 0.00 |
| 13 | T | Acrolein | 250.000 | 286.418 | -14.6 | 132 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 54.641 | -9.3 | 116 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 233.249 | 6.7 | 110 | 0.00 |
| 16 | T | Acetone | 250.000 | 284.324 | -13.7 | 143 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 45.619 | 8.8 | 107 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 47.589 | 4.8 | 113 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.259 | -4.5 | 116 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.306 | 1.4 | 115 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.838 | 2.3 | 115 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.442 | -4.9 | 117 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 258.015 | -3.2 | 113 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.913 | 0.2 | 117 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 263.683 | -5.5 | 122 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 53.100 | -6.2 | 121 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.702 | -1.4 | 115 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 45.716 | 8.6 | 109 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 240.869 | 3.7 | 108 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.563 | 0.9# | 116 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.335 | 7.3 | 116 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.896 | -3.8 | 117 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.850 | 0.3 | 115 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 114 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 52.485 | -5.0 | 118 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.663 | -5.3 | 114 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.424 | 3.2 | 108 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.312 | -6.6 | 116 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 56.751 | -13.5 | 117 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.489 | -3.0 | 114 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.801 | -5.6 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 52.019 | -4.0 | 115 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.506 | -7.0 | 114 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.598 | -1.2 | 118 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.935 | -3.9# | 116 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.767 | -3.5 | 113 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.370 | -6.7 | 116 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.901 | -7.8 | 111 | 0.00 |

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

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 940.475 | 6.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.260 | -4.5 | 115 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 260.784 | -4.3 | 110 | 0.00 |
| 52 | CM | Toluene | 50.000 | 52.664 | -5.3# | 113 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.811 | -11.6 | 113 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 56.103 | -12.2 | 117 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.481 | -5.0 | 114 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 56.268 | -12.5 | 113 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.612 | -3.2 | 113 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 298.982 | -19.6 | 125 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 270.314 | -8.1 | 112 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.950 | -7.9 | 113 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.543 | -3.1 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 55.061 | -10.1 | 116 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 112 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 55.243 | -10.5 | 128 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.532 | -1.1 | 112 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 53.409 | -6.8 | 114 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.435 | -8.9# | 113 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 110.309 | -10.3 | 114 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 54.414 | -8.8 | 112 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.435 | -12.9 | 112 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.939 | -9.9 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 55.480 | -11.0 | 113 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.148 | -10.3 | 107 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.711 | 4.6 | 106 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 44.865 | 10.3 | 94 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.219 | -2.4 | 111 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 57.736 | -15.5 | 114 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 53.528 | -7.1 | 112 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 55.460 | -10.9 | 112 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 56.114 | -12.2 | 108 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.528 | -7.1 | 112 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.460 | -10.9 | 111 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 55.973 | -11.9 | 111 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 57.982 | -16.0 | 113 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 58.850 | -17.7 | 111 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.251 | -6.5 | 111 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.965 | -1.9 | 110 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 60.529 | -21.1 | 112 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 57.596 | -15.2 | 112 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 53.514 | -7.0 | 112 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.429 | 1.1 | 108 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 58.675 | -17.3 | 114 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 56.138 | -12.3 | 112 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 49.639 | 0.7 | 109 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 61.036 | -22.1 | 115 | 0.00 |

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