# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN052820\
Data File : VN061544.D
Acq On : 28 May 2020 20:29
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** ICVVN052820

Quant Time: May 29 02:30:28 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.794 | 0.4 | 93 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 53.307 | -6.6 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 52.661 | -5.3# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 52.236 | -4.5 | 94 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.667 | -1.3 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.827 | -3.7 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.208 | 1.6 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.354 | 1.3 | 95 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 52.250 | -4.5 | 97 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 260.549 | -4.2 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.132 | 1.7# | 96 | 0.00 |
| 13 | T | Acrolein | 250.000 | 266.041 | -6.4 | 99 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.497 | 1.0 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 259.279 | -3.7 | 96 | 0.00 |
| 16 | T | Acetone | 250.000 | 267.054 | -6.8 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.787 | 0.4 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.375 | 1.3 | 94 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.732 | 0.5 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.946 | -3.9 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.633 | 0.7 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.594 | -1.2 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 258.277 | -3.3 | 94 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.253 | -0.5 | 95 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 251.982 | -0.8 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.713 | 6.6 | 93 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.905 | -1.8 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 52.814 | -5.6 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 252.667 | -1.1 | 95 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.631 | -1.3# | 96 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.649 | 2.7 | 92 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.389 | -2.8 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 50.556 | -1.1 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 52.221 | -4.4 | 95 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.736 | -1.5 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.375 | -4.8 | 95 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.547 | -5.1 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.696 | -1.4 | 95 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.067 | -0.1 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 49.057 | 1.9 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.611 | 0.8 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.192 | -0.4 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.222 | -2.4 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.471 | -0.9# | 96 | 0.00 |

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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** ICVVN052820

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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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 49.713 | 0.6 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.010 | -2.0 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 48.699 | 2.6 | 95 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1001.322 | -0.1 | 102 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.979 | -2.0 | 93 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 256.238 | -2.5 | 95 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.137 | -2.3# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.025 | -2.0 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.506 | -1.0 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.418 | -0.8 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.387 | -4.8 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.856 | -1.7 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 261.285 | -4.5 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 255.747 | -2.3 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.984 | -4.0 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.869 | -3.7 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.564 | -1.1 | 94 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.899 | -1.8 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.318 | -0.6 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.535 | -1.1 | 95 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.955 | -1.9# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.226 | -2.2 | 96 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.350 | -2.7 | 96 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.475 | -5.0 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.286 | -4.6 | 95 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.674 | 0.7 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.081 | -2.2 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 48.129 | 3.7 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.363 | 5.3 | 94 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.754 | 0.5 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.599 | 0.8 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.748 | 2.5 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.200 | -0.4 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 48.439 | 3.1 | 92 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.786 | 2.4 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 48.792 | 2.4 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.897 | -1.8 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.829 | 0.3 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.865 | -1.7 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.495 | -1.0 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.842 | 0.3 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.437 | -0.9 | 96 | 0.00 |

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

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 50.185 | -0.4 | 98 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 50.597 | -1.2 | 96 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.195 | 5.6 | 93 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 52.353 | -4.7 | 97 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 49.802 | 0.4 | 99 | 0.00 |
| 95 T | Naphthalene | 50.000 | 52.899 | -5.8 | 94 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.060 | -4.1 | 96 | 0.00 |

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