# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN052819\
Data File : VN055862.D
Acq On : 28 May 2019 19:07
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 26 Sample Multiplier: 1

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

Quant Time: May 29 06:44:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
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 | 105 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.337 | 0.292 | 13.4 | 96 | 0.00 |
| 3 | P | Chloromethane | 0.471 | 0.411 | 12.7 | 94 | 0.00 |
| 4 | C | Vinyl Chloride | 0.503 | 0.441 | 12.3# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.315 | 0.301 | 4.4 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.303 | 0.280 | 7.6 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.659 | 0.608 | 7.7 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 0.295 | 0.271 | 8.1 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.412 | 0.383 | 7.0 | 101 | 0.00 |
| 10 | T | Methyl Iodide | 0.602 | 0.620 | -3.0 | 104 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.099 | 0.092 | 7.1 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.425 | 0.389 | 8.5# | 98 | 0.00 |
| 13 | T | Acrolein | 0.071 | 0.059 | 16.9 | 91 | 0.00 |
| 14 | T | Allyl chloride | 0.729 | 0.636 | 12.8 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.227 | 0.218 | 4.0 | 102 | 0.00 |
| 16 | T | Acetone | 0.227 | 0.186 | 18.1 | 87 | 0.00 |
| 17 | T | Carbon Disulfide | 1.208 | 0.967 | 20.0 | 88 | 0.00 |
| 18 | T | Methyl Acetate | 0.538 | 0.462 | 14.1 | 103 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.418 | 1.337 | 5.7 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 0.492 | 0.457 | 7.1 | 103 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.457 | 0.419 | 8.3 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 1.418 | 1.332 | 6.1 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 1.216 | 1.135 | 6.7 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.826 | 0.759 | 8.1 | 100 | 0.00 |
| 25 | T | 2-Butanone | 0.317 | 0.293 | 7.6 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.714 | 0.583 | 18.3 | 90 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.533 | 0.506 | 5.1 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 0.393 | 0.372 | 5.3 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.201 | 0.192 | 4.5 | 101 | 0.00 |
| 30 | C | Chloroform | 0.823 | 0.783 | 4.9# | 102 | 0.00 |
| 31 | T | Cyclohexane | 0.775 | 0.685 | 11.6 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.735 | 0.682 | 7.2 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.516 | 0.497 | 3.7 | 100 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.316 | 0.320 | -1.3 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.436 | 0.403 | 7.6 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 0.421 | 0.419 | 0.5 | 101 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.454 | 0.426 | 6.2 | 98 | 0.00 |
| 39 | T | Methylcyclohexane | 0.540 | 0.509 | 5.7 | 100 | 0.00 |
| 40 | TM | Benzene | 1.313 | 1.289 | 1.8 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 0.213 | 0.216 | -1.4 | 107 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.429 | 0.413 | 3.7 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.708 | 0.681 | 3.8 | 100 | 0.00 |
| 44 | TM | Trichloroethene | 0.366 | 0.374 | -2.2 | 105 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.342 | 0.335 | 2.0# | 101 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.224 | 0.222 | 0.9 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 0.460 | 0.438 | 4.8 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.326 | 0.326 | 0.0 | 101 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.007 | 0.0 | 103 | 0.00 |
| 50 | S | Toluene-d8 | 1.213 | 1.217 | -0.3 | 102 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.418 | 0.419 | -0.2 | 101 | 0.00 |
| 52 | CM | Toluene | 0.826 | 0.813 | 1.6# | 101 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.491 | 0.466 | 5.1 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.544 | 0.524 | 3.7 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.331 | 0.333 | -0.6 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.511 | 0.512 | -0.2 | 100 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.538 | 0.535 | 0.6 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.195 | 0.187 | 4.1 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 0.296 | 0.288 | 2.7 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 0.385 | 0.375 | 2.6 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.343 | 0.344 | -0.3 | 102 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.416 | 0.413 | 0.7 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.422 | 0.417 | 1.2 | 106 | 0.00 |
| 65 | PM | Chlorobenzene | 1.001 | 1.000 | 0.1 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.399 | 0.384 | 3.8 | 102 | 0.00 |
| 67 | C | Ethyl Benzene | 1.795 | 1.740 | 3.1# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 0.679 | 0.670 | 1.3 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.673 | 0.662 | 1.6 | 103 | 0.00 |
| 70 | T | Styrene | 1.090 | 1.104 | -1.3 | 101 | 0.00 |
| 71 | P | Bromoform | 0.341 | 0.320 | 6.2 | 94 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 4.186 | 3.787 | 9.5 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 1.536 | 1.337 | 13.0 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.241 | 1.112 | 10.4 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.988 | 0.923 | 6.6 | 101 | 0.00 |
| 77 | T | Bromobenzene | 1.067 | 1.043 | 2.2 | 105 | 0.00 |
| 78 | T | n-propylbenzene | 4.346 | 4.035 | 7.2 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.693 | 2.434 | 9.6 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.474 | 3.104 | 10.7 | 100 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.372 | 0.317 | 14.8 | 88 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.554 | 2.374 | 7.0 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.078 | 2.756 | 10.5 | 102 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.395 | 3.071 | 9.5 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.826 | 3.539 | 7.5 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.472 | 3.229 | 7.0 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.689 | 1.626 | 3.7 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.606 | 1.559 | 2.9 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 2.661 | 2.486 | 6.6 | 97 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.661 | 0.576 | 12.9 | 94 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.686 | 1.605 | 4.8 | 99 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.222 | 0.191 | 14.0 | 92 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.847 | 0.882 | -4.1 | 101 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.669 | 0.610 | 8.8 | 102 | 0.00 |
| 95 T | Naphthalene | 2.313 | 2.381 | -2.9 | 98 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.891 | 0.918 | -3.0 | 102 | 0.00 |

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