# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN110819\
Data File : VN059130.D
Acq On : 8 Nov 2019 8:50
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Nov 11 01:01:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 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 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.504 | 0.440 | 12.7 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.685 | 0.586 | 14.5 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 0.664 | 0.588 | 11.4# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.382 | 0.320 | 16.2 | 91 | 0.00 |
| 6 | T | Chloroethane | 0.393 | 0.356 | 9.4 | 99 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.794 | 0.721 | 9.2 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 0.323 | 0.295 | 8.7 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.479 | 0.440 | 8.1 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 0.593 | 0.472 | 20.4 | 82 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.117 | 0.092 | 21.4 | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.466 | 0.429 | 7.9# | 98 | 0.00 |
| 13 | T | Acrolein | 0.060 | 0.044 | 26.7# | 78 | 0.00 |
| 14 | T | Allyl chloride | 0.958 | 0.863 | 9.9 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 0.292 | 0.259 | 11.3 | 90 | 0.00 |
| 16 | T | Acetone | 0.320 | 0.331 | -3.4 | 100 | 0.00 |
| 17 | T | Carbon Disulfide | 1.448 | 1.257 | 13.2 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 0.759 | 0.664 | 12.5 | 92 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.606 | 1.520 | 5.4 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 0.557 | 0.510 | 8.4 | 98 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.501 | 0.465 | 7.2 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 1.810 | 1.726 | 4.6 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 1.403 | 1.397 | 0.4 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.011 | 0.937 | 7.3 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.421 | 0.398 | 5.5 | 94 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.884 | 0.811 | 8.3 | 100 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.581 | 0.542 | 6.7 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.304 | 0.274 | 9.9 | 97 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.268 | 0.231 | 13.8 | 88 | 0.00 |
| 30 | C | Chloroform | 0.970 | 0.892 | 8.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.957 | 0.843 | 11.9 | 95 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.815 | 0.762 | 6.5 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.615 | 0.591 | 3.9 | 104 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.304 | -1.7 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.467 | 0.445 | 4.7 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 0.520 | 0.463 | 11.0 | 90 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.465 | 0.434 | 6.7 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.542 | 0.517 | 4.6 | 96 | 0.00 |
| 40 | TM | Benzene | 1.407 | 1.342 | 4.6 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.226 | 0.216 | 4.4 | 89 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.483 | 0.453 | 6.2 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.829 | 0.754 | 9.0 | 93 | 0.00 |
| 44 | TM | Trichloroethene | 0.346 | 0.333 | 3.8 | 99 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.382 | 0.367 | 3.9# | 98 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.238 | 0.220 | 7.6 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.476 | 0.461 | 3.2 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.371 | 0.345 | 7.0 | 93 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.006 | 14.3 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 1.176 | 1.195 | -1.6 | 106 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.469 | 0.458 | 2.3 | 90 | 0.00 |
| 52 | CM | Toluene | 0.844 | 0.820 | 2.8# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.550 | 0.532 | 3.3 | 99 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.591 | 0.581 | 1.7 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.341 | 0.321 | 5.9 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.507 | 0.507 | 0.0 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.588 | 0.564 | 4.1 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.190 | 0.195 | -2.6 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 0.360 | 0.359 | 0.3 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 0.361 | 0.354 | 1.9 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.346 | 0.331 | 4.3 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.424 | 0.445 | -5.0 | 110 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.340 | 0.318 | 6.5 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 0.975 | 0.943 | 3.3 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.355 | 3.0 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 1.729 | 1.736 | -0.4# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 0.648 | 0.646 | 0.3 | 99 | 0.00 |
| 69 | T | o-Xylene | 0.626 | 0.616 | 1.6 | 100 | 0.00 |
| 70 | T | Styrene | 0.985 | 1.018 | -3.4 | 99 | 0.00 |
| 71 | P | Bromoform | 0.284 | 0.276 | 2.8 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 3.637 | 3.514 | 3.4 | 100 | 0.00 |
| 74 | T | N-amyl acetate | 1.541 | 1.478 | 4.1 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.239 | 1.123 | 9.4 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.138 | 1.004 | 11.8 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.914 | 0.849 | 7.1 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 4.164 | 4.136 | 0.7 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.583 | 2.431 | 5.9 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.082 | 2.986 | 3.1 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.431 | 0.406 | 5.8 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.591 | 2.514 | 3.0 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.661 | 2.485 | 6.6 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.982 | 3.000 | -0.6 | 101 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.461 | 3.377 | 2.4 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.056 | 3.076 | -0.7 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.565 | 1.513 | 3.3 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.566 | 1.502 | 4.1 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 2.675 | 2.669 | 0.2 | 99 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.614 | 0.552 | 10.1 | 98 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.539 | 1.492 | 3.1 | 100 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.280 | 0.210 | 25.0# | 89 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.825 | 0.826 | -0.1 | 100 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.531 | 0.478 | 10.0 | 98 | 0.00 |
| 95 T | Naphthalene | 2.265 | 2.176 | 3.9 | 96 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.863 | 0.814 | 5.7 | 98 | 0.00 |

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