# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041519\
Data File : VX008973.D
Acq On : 15 Apr 2019 20:15
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Apr 16 05:00:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 16 02:27:32 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.576 | 0.607 | -5.4 | 96 | 0.00 |
| 3 | P | Chloromethane | 0.707 | 0.714 | -1.0 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 0.688 | 0.687 | 0.1# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.447 | 0.413 | 7.6 | 101 | 0.00 |
| 6 | T | Chloroethane | 0.405 | 0.402 | 0.7 | 94 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.803 | 0.782 | 2.6 | 93 | 0.00 |
| 8 | T | Diethyl Ether | 0.367 | 0.355 | 3.3 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.514 | 0.491 | 4.5 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 0.511 | 0.552 | -8.0 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.156 | 0.153 | 1.9 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.536 | 0.508 | 5.2# | 93 | 0.00 |
| 13 | T | Acrolein | 0.135 | 0.123 | 8.9 | 83 | 0.00 |
| 14 | T | Allyl chloride | 1.170 | 1.176 | -0.5 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.397 | 0.391 | 1.5 | 95 | 0.00 |
| 16 | T | Acetone | 0.365 | 0.341 | 6.6 | 88 | 0.00 |
| 17 | T | Carbon Disulfide | 1.664 | 1.509 | 9.3 | 92 | 0.00 |
| 18 | T | Methyl Acetate | 0.912 | 0.865 | 5.2 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.911 | 1.911 | 0.0 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 0.625 | 0.594 | 5.0 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.572 | 0.547 | 4.4 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 2.273 | 2.285 | -0.5 | 97 | 0.00 |
| 23 | T | Vinyl Acetate | 1.998 | 2.065 | -3.4 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.141 | 1.120 | 1.8 | 96 | 0.00 |
| 25 | T | 2-Butanone | 0.584 | 0.586 | -0.3 | 94 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.855 | 0.787 | 8.0 | 89 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.649 | 0.626 | 3.5 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.529 | 0.502 | 5.1 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.391 | 0.387 | 1.0 | 95 | 0.00 |
| 30 | C | Chloroform | 1.021 | 1.002 | 1.9# | 95 | 0.00 |
| 31 | T | Cyclohexane | 1.122 | 1.112 | 0.9 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.846 | 0.840 | 0.7 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.705 | 0.664 | 5.8 | 91 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.321 | 0.298 | 7.2 | 90 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.517 | 0.483 | 6.6 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 0.665 | 0.671 | -0.9 | 94 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.438 | 0.424 | 3.2 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.630 | 0.597 | 5.2 | 93 | 0.00 |
| 40 | TM | Benzene | 1.526 | 1.485 | 2.7 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 0.382 | 0.382 | 0.0 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.540 | 0.522 | 3.3 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.072 | 1.071 | 0.1 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.374 | 0.349 | 6.7 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.423 | 0.420 | 0.7# | 96 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.246 | 0.237 | 3.7 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.483 | 0.475 | 1.7 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.530 | 0.540 | -1.9 | 97 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.009 | 10.0 | 98 | 0.00 |
| 50 | S | Toluene-d8 | 1.280 | 1.209 | 5.5 | 90 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.683 | 0.680 | 0.4 | 95 | 0.00 |
| 52 | CM | Toluene | 0.914 | 0.889 | 2.7# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.556 | 0.560 | -0.7 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.623 | 0.614 | 1.4 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.362 | 0.356 | 1.7 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.650 | 0.662 | -1.8 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.645 | 0.636 | 1.4 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.350 | 0.352 | -0.6 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 0.527 | 0.511 | 3.0 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 0.347 | 0.356 | -2.6 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.374 | 0.367 | 1.9 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.452 | 0.426 | 5.8 | 89 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 0.380 | 0.354 | 6.8 | 93 | 0.00 |
| 65 | PM | Chlorobenzene | 1.055 | 1.004 | 4.8 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.372 | 0.370 | 0.5 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.878 | 2.6# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.701 | 0.683 | 2.6 | 96 | 0.00 |
| 69 | T | o-Xylene | 0.682 | 0.659 | 3.4 | 95 | 0.00 |
| 70 | T | Styrene | 1.182 | 1.153 | 2.5 | 95 | 0.00 |
| 71 | P | Bromoform | 0.296 | 0.295 | 0.3 | 94 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 3.790 | 3.821 | -0.8 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 2.176 | 2.225 | -2.3 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.385 | 1.338 | 3.4 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.221 | 1.188 | 2.7 | 94 | 0.00 |
| 77 | T | Bromobenzene | 0.956 | 0.938 | 1.9 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 4.350 | 4.429 | -1.8 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.621 | 2.609 | 0.5 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.180 | 3.239 | -1.9 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.476 | 0.485 | -1.9 | 89 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.044 | 2.999 | 1.5 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.053 | 3.033 | 0.7 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.237 | 3.240 | -0.1 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.642 | 3.674 | -0.9 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.348 | 3.321 | 0.8 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.674 | 1.625 | 2.9 | 94 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.697 | 1.592 | 6.2 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 3.118 | 3.064 | 1.7 | 91 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.552 | 0.570 | -3.3 | 94 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.653 | 1.598 | 3.3 | 94 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.315 | 0.300 | 4.8 | 92 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.193 | 1.118 | 6.3 | 90 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.595 | 0.565 | 5.0 | 91 | 0.00 |
| 95 T | Naphthalene | 3.822 | 3.689 | 3.5 | 92 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.177 | 1.117 | 5.1 | 92 | 0.00 |

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