# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU062018\
Data File : VU024750.D
Acq On : 20 Jun 2018 10:58
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Jun 20 14:58:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
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 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.626 | 0.537 | 14.2 | 86 | 0.00 |
| 3 | P | Chloromethane | 0.639 | 0.576 | 9.9 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 0.659 | 0.598 | 9.3# | 91 | 0.00 |
| 5 | T | Bromomethane | 0.319 | 0.359 | -12.5 | 109 | 0.00 |
| 6 | T | Chloroethane | 0.431 | 0.389 | 9.7 | 100 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.006 | 0.992 | 1.4 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.390 | 0.359 | 7.9 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.624 | 0.562 | 9.9 | 91 | 0.00 |
| 10 | T | Methyl Iodide | 0.451 | 0.425 | 5.8 | 80 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.199 | 0.142 | 28.6# | 75 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.569 | 0.512 | 10.0# | 88 | 0.00 |
| 13 | T | Acrolein | 0.104 | 0.077 | 26.0# | 75 | 0.00 |
| 14 | T | Allyl chloride | 1.057 | 0.984 | 6.9 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 0.386 | 0.337 | 12.7 | 84 | 0.00 |
| 16 | T | Acetone | 0.439 | 0.357 | 18.7 | 84 | 0.00 |
| 17 | T | Carbon Disulfide | 1.823 | 1.555 | 14.7 | 85 | 0.00 |
| 18 | T | Methyl Acetate | 0.940 | 0.841 | 10.5 | 89 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.140 | 1.904 | 11.0 | 88 | 0.00 |
| 20 | T | Methylene Chloride | 0.688 | 0.598 | 13.1 | 90 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.627 | 0.560 | 10.7 | 90 | 0.00 |
| 22 | T | Diisopropyl ether | 2.096 | 1.920 | 8.4 | 91 | 0.00 |
| 23 | T | Vinyl Acetate | 1.877 | 1.675 | 10.8 | 87 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.205 | 1.088 | 9.7 | 89 | 0.00 |
| 25 | T | 2-Butanone | 0.589 | 0.503 | 14.6 | 82 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.145 | 1.011 | 11.7 | 89 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.721 | 0.662 | 8.2 | 92 | 0.00 |
| 28 | T | Bromochloromethane | 0.531 | 0.488 | 8.1 | 85 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.365 | 0.304 | 16.7 | 83 | 0.00 |
| 30 | C | Chloroform | 1.220 | 1.109 | 9.1# | 90 | 0.00 |
| 31 | T | Cyclohexane | 1.323 | 1.018 | 23.1# | 90 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.128 | 1.000 | 11.3 | 90 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.816 | 0.662 | 18.9 | 78 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.415 | 0.376 | 9.4 | 82 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.588 | 0.563 | 4.3 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 0.640 | 0.614 | 4.1 | 82 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.646 | 0.628 | 2.8 | 90 | 0.00 |
| 39 | T | Methylcyclohexane | 0.733 | 0.719 | 1.9 | 93 | 0.00 |
| 40 | TM | Benzene | 1.674 | 1.633 | 2.4 | 90 | 0.00 |
| 41 | T | Methacrylonitrile | 0.345 | 0.337 | 2.3 | 84 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.638 | 0.619 | 3.0 | 90 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.107 | 1.007 | 9.0 | 85 | 0.00 |
| 44 | TM | Trichloroethene | 0.476 | 0.471 | 1.1 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.447 | 0.449 | -0.4# | 92 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.314 | 0.312 | 0.6 | 90 | 0.00 |
| 47 | T | Bromodichloromethane | 0.625 | 0.596 | 4.6 | 88 | 0.00 |
| 48 | T | Methyl methacrylate | 0.539 | 0.502 | 6.9 | 85 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.011 | 0.011 | 0.0 | 105 | 0.02 |
| 50 | S | Toluene-d8 | 1.514 | 1.393 | 8.0 | 83 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.695 | 0.640 | 7.9 | 85 | 0.00 |
| 52 | CM | Toluene | 1.077 | 1.072 | 0.5# | 92 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.702 | 0.685 | 2.4 | 88 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.748 | 0.714 | 4.5 | 88 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.438 | 0.436 | 0.5 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.733 | 0.706 | 3.7 | 90 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.739 | 0.735 | 0.5 | 93 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.281 | 0.223 | 20.6# | 71 | 0.00 |
| 59 | T | 2-Hexanone | 0.568 | 0.512 | 9.9 | 84 | 0.00 |
| 60 | T | Dibromochloromethane | 0.546 | 0.521 | 4.6 | 91 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.487 | 0.480 | 1.4 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.601 | 0.546 | 9.2 | 83 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.475 | 0.446 | 6.1 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 1.277 | 1.275 | 0.2 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.485 | 0.491 | -1.2 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 2.239 | 2.192 | 2.1# | 92 | 0.00 |
| 68 | T | m/p-Xylenes | 0.860 | 0.870 | -1.2 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.851 | 0.853 | -0.2 | 95 | 0.00 |
| 70 | T | Styrene | 1.398 | 1.406 | -0.6 | 93 | 0.00 |
| 71 | P | Bromoform | 0.461 | 0.435 | 5.6 | 90 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 73 | T | Isopropylbenzene | 3.839 | 3.804 | 0.9 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 1.826 | 1.667 | 8.7 | 87 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.286 | 1.238 | 3.7 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.101 | 1.044 | 5.2 | 90 | 0.00 |
| 77 | T | Bromobenzene | 0.972 | 0.960 | 1.2 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 4.522 | 4.410 | 2.5 | 93 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.667 | 2.589 | 2.9 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.327 | 3.294 | 1.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.476 | 0.383 | 19.5 | 77 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.104 | 3.036 | 2.2 | 93 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.201 | 3.243 | -1.3 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.391 | 3.376 | 0.4 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.006 | 3.984 | 0.5 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.588 | 3.601 | -0.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.795 | 1.773 | 1.2 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.807 | 1.814 | -0.4 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 3.186 | 3.140 | 1.4 | 92 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 90 | T | Hexachloroethane | 0.700 | 0.637 | 9.0 | 90 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.798 | 1.786 | 0.7 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.355 | 0.317 | 10.7 | 83 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.111 | 1.239 | -11.5 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.625 | 0.631 | -1.0 | 96 | 0.00 |
| 95 | T | Naphthalene | 3.293 | 3.784 | -14.9 | 94 | 0.00 |
| 96 | T | 1,2,3-Trichlorobenzene | 1.107 | 1.275 | -15.2 | 97 | 0.00 |

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