# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011019\
Data File : VU029129.D
Acq On : 10 Jan 2019 19:55
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

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

Quant Time: Jan 11 04:16:52 2019
Quant Method : Z:\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Fri Jan 04 02:22:53 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 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.496 | 0.472 | 4.8 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.887 | 0.673 | 24.1# | 84 | 0.00 |
| 4 | C | Vinyl Chloride | 0.731 | 0.692 | 5.3# | 94 | 0.00 |
| 5 | T | Bromomethane | 0.437 | 0.332 | 24.0# | 80 | 0.00 |
| 6 | T | Chloroethane | 0.435 | 0.427 | 1.8 | 99 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.796 | 0.767 | 3.6 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 0.383 | 0.382 | 0.3 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.533 | 0.506 | 5.1 | 105 | 0.00 |
| 10 | T | Methyl Iodide | 0.501 | 0.404 | 19.4 | 81 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.157 | 0.167 | -6.4 | 109 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.519 | 0.498 | 4.0# | 103 | 0.00 |
| 13 | T | Acrolein | 0.118 | 0.105 | 11.0 | 91 | 0.00 |
| 14 | T | Allyl chloride | 0.951 | 0.860 | 9.6 | 85 | 0.00 |
| 15 | T | Acrylonitrile | 0.385 | 0.411 | -6.8 | 103 | 0.00 |
| 16 | T | Acetone | 0.389 | 0.321 | 17.5 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 1.930 | 1.579 | 18.2 | 91 | 0.00 |
| 18 | T | Methyl Acetate | 0.905 | 1.012 | -11.8 | 113 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.823 | 1.855 | -1.8 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 0.661 | 0.646 | 2.3 | 100 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.602 | 0.563 | 6.5 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 1.880 | 1.963 | -4.4 | 101 | 0.00 |
| 23 | T | Vinyl Acetate | 1.537 | 1.609 | -4.7 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.086 | 1.120 | -3.1 | 101 | 0.00 |
| 25 | T | 2-Butanone | 0.526 | 0.540 | -2.7 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.877 | 0.820 | 6.5 | 92 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.659 | 0.658 | 0.2 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.465 | 0.485 | -4.3 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.319 | 0.352 | -10.3 | 106 | 0.00 |
| 30 | C | Chloroform | 1.034 | 1.056 | -2.1# | 100 | 0.00 |
| 31 | T | Cyclohexane | 1.201 | 1.003 | 16.5 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.854 | 0.854 | 0.0 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.618 | 0.621 | -0.5 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.324 | 0.324 | 0.0 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.500 | 0.469 | 6.2 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.549 | 0.589 | -7.3 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.417 | 0.417 | 0.0 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.614 | 0.588 | 4.2 | 96 | 0.00 |
| 40 | TM | Benzene | 1.559 | 1.524 | 2.2 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.294 | 0.319 | -8.5 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.468 | 0.481 | -2.8 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.842 | 0.900 | -6.9 | 103 | 0.00 |
| 44 | TM | Trichloroethene | 0.386 | 0.367 | 4.9 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.412 | 0.417 | -1.2# | 99 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.263 | 0.261 | 0.8 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.485 | 0.488 | -0.6 | 100 | 0.00 |
| 48 | T | Methyl methacrylate | 0.410 | 0.445 | -8.5 | 101 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.010 | 0.0 | 102 | 0.00 |
| 50 | S | Toluene-d8 | 1.280 | 1.236 | 3.4 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.573 | 0.613 | -7.0 | 104 | 0.00 |
| 52 | CM | Toluene | 0.949 | 0.935 | 1.5# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.582 | 0.569 | 2.2 | 98 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.629 | 0.627 | 0.3 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.380 | 0.382 | -0.5 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.586 | 0.611 | -4.3 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.651 | 0.663 | -1.8 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.258 | 0.274 | -6.2 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 0.450 | 0.478 | -6.2 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 0.377 | 0.374 | 0.8 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.412 | 0.408 | 1.0 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.460 | 0.441 | 4.1 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.360 | 0.350 | 2.8 | 96 | 0.00 |
| 65 | PM | Chlorobenzene | 1.121 | 1.067 | 4.8 | 98 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.364 | 0.359 | 1.4 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.871 | 1.859 | 0.6# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.727 | 0.720 | 1.0 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.701 | 0.701 | 0.0 | 98 | 0.00 |
| 70 | T | Styrene | 1.148 | 1.159 | -1.0 | 97 | 0.00 |
| 71 | P | Bromoform | 0.324 | 0.318 | 1.9 | 95 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 3.701 | 3.656 | 1.2 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.595 | 1.663 | -4.3 | 100 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.483 | 1.457 | 1.8 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.225 | 1.241 | -1.3 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.964 | 0.927 | 3.8 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 4.361 | 4.373 | -0.3 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.646 | 2.566 | 3.0 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.091 | 3.077 | 0.5 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.475 | 0.392 | 17.5 | 88 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.034 | 2.938 | 3.2 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.046 | 3.010 | 1.2 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.086 | 3.147 | -2.0 | 98 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.684 | 3.760 | -2.1 | 100 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.139 | 3.194 | -1.8 | 98 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.769 | 1.660 | 6.2 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.826 | 1.668 | 8.7 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 2.802 | 2.942 | -5.0 | 99 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.528 | 0.489 | 7.4 | 94 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.782 | 1.675 | 6.0 | 95 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.285 | 0.306 | -7.4 | 101 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.137 | 1.126 | 1.0 | 97 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.520 | 0.526 | -1.2 | 104 | 0.00 |
| 95 T | Naphthalene | 3.869 | 3.879 | -0.3 | 99 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.209 | 1.178 | 2.6 | 99 | 0.00 |

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