Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081919\

# Evaluate Continuing Calibration Report

Data File : VX011619.D
Acq On : 19 Aug 2019 09:47
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Aug 20 10:08:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 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 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.491 | 0.531 | -8.1 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.510 | 0.432 | 15.3 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.461 | 0.442 | 4.1# | 91 | 0.00 |
| 5 | T | Bromomethane | 0.207 | 0.202 | 2.4 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.218 | 0.215 | 1.4 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.639 | 0.647 | -1.3 | 98 | 0.00 |
| 8 | T | Diethyl Ether | 0.219 | 0.212 | 3.2 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.441 | 0.413 | 6.3 | 92 | 0.00 |
| 10 | T | Methyl Iodide | 0.628 | 0.570 | 9.2 | 84 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.114 | 0.106 | 7.0 | 89 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.426 | 0.380 | 10.8# | 88 | 0.00 |
| 13 | T | Acrolein | 0.038 | 0.026 | 31.6# | 76 | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.701 | 1.1 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.260 | 0.243 | 6.5 | 88 | 0.00 |
| 16 | T | Acetone | 0.233 | 0.237 | -1.7 | 99 | 0.00 |
| 17 | T | Carbon Disulfide | 1.005 | 0.970 | 3.5 | 93 | 0.00 |
| 18 | T | Methyl Acetate | 0.723 | 0.697 | 3.6 | 90 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.388 | 1.383 | 0.4 | 94 | 0.00 |
| 20 | T | Methylene Chloride | 0.490 | 0.449 | 8.4 | 92 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.452 | 0.431 | 4.6 | 92 | 0.00 |
| 22 | T | Diisopropyl ether | 1.412 | 1.370 | 3.0 | 91 | 0.00 |
| 23 | T | Vinyl Acetate | 1.118 | 1.119 | -0.1 | 92 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.799 | 0.759 | 5.0 | 92 | 0.00 |
| 25 | T | 2-Butanone | 0.366 | 0.346 | 5.5 | 89 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.601 | 0.654 | -8.8 | 104 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.527 | 0.504 | 4.4 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 0.351 | 0.315 | 10.3 | 86 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.240 | 0.222 | 7.5 | 86 | 0.00 |
| 30 | C | Chloroform | 0.843 | 0.803 | 4.7# | 93 | 0.00 |
| 31 | T | Cyclohexane | 0.688 | 0.683 | 0.7 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.725 | 0.725 | 0.0 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.464 | 0.404 | 12.9 | 91 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.327 | 0.289 | 11.6 | 88 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.427 | 0.445 | -4.2 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 0.492 | 0.481 | 2.2 | 89 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.471 | 0.497 | -5.5 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 0.528 | 0.560 | -6.1 | 97 | 0.00 |
| 40 | TM | Benzene | 1.328 | 1.323 | 0.4 | 92 | 0.00 |
| 41 | T | Methacrylonitrile | 0.271 | 0.272 | -0.4 | 89 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.460 | 0.469 | -2.0 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.767 | 0.771 | -0.5 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 0.394 | 0.402 | -2.0 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.331 | 0.337 | -1.8# | 91 | 0.00 |

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Acq On : 19 Aug 2019 09:47
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Aug 20 10:08:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.241 | 0.234 | 2.9 | 92 | 0.00 |
| 47 | T | Bromodichloromethane | 0.442 | 0.462 | -4.5 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 0.380 | 0.393 | -3.4 | 91 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.010 | 0.0 | 87 | 0.00 |
| 50 | S | Toluene-d8 | 1.019 | 0.934 | 8.3 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.502 | 0.500 | 0.4 | 88 | 0.00 |
| 52 | CM | Toluene | 0.846 | 0.857 | -1.3# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.459 | 0.509 | -10.9 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.502 | 0.558 | -11.2 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.360 | 0.354 | 1.7 | 92 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.523 | 0.551 | -5.4 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.572 | 0.570 | 0.3 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.261 | 0.264 | -1.1 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 0.387 | 0.389 | -0.5 | 88 | 0.00 |
| 60 | T | Dibromochloromethane | 0.375 | 0.417 | -11.2 | 94 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.384 | 0.390 | -1.6 | 92 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.430 | 0.393 | 8.6 | 91 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 0.410 | 0.437 | -6.6 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 1.066 | 1.082 | -1.5 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.399 | 0.428 | -7.3 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.780 | 1.864 | -4.7# | 94 | 0.00 |
| 68 | T | m/p-Xylenes | 0.683 | 0.723 | -5.9 | 93 | 0.00 |
| 69 | T | o-Xylene | 0.669 | 0.700 | -4.6 | 94 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.195 | -6.0 | 92 | 0.00 |
| 71 | P | Bromoform | 0.337 | 0.382 | -13.4 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 73 | T | Isopropylbenzene | 3.244 | 3.335 | -2.8 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 1.379 | 1.329 | 3.6 | 89 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.116 | 1.071 | 4.0 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.948 | 0.955 | -0.7 | 92 | 0.00 |
| 77 | T | Bromobenzene | 0.965 | 0.966 | -0.1 | 93 | 0.00 |
| 78 | T | n-propylbenzene | 3.498 | 3.718 | -6.3 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.148 | 2.191 | -2.0 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.725 | 2.862 | -5.0 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.319 | 0.349 | -9.4 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.492 | 2.578 | -3.5 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.776 | 2.879 | -3.7 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.736 | 2.898 | -5.9 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.132 | 3.317 | -5.9 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.946 | 3.191 | -8.3 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.659 | 1.707 | -2.9 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.682 | 1.709 | -1.6 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 2.422 | 2.702 | -11.6 | 99 | 0.00 |

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Evaluate Continuing Calibration Report

Data File : VX011619.D
Acq On : 19 Aug 2019 09:47
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Aug 20 10:08:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.465 | 0.509 | -9.5 | 98 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.666 | 1.675 | -0.5 | 93 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.255 | 0.249 | 2.4 | 91 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.241 | 1.217 | 1.9 | 89 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.676 | 0.686 | -1.5 | 93 | 0.00 |
| 95 T | Naphthalene | 3.508 | 3.571 | -1.8 | 89 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.252 | 1.248 | 0.3 | 90 | 0.00 |

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