# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072519\
Data File : VX011077.D
Acq On : 25 Jul 2019 16:33
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Jul 26 02:24:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 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 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.467 | 0.519 | -11.1 | 88 | 0.00 |
| 3 | P | Chloromethane | 0.460 | 0.439 | 4.6 | 86 | 0.00 |
| 4 | C | Vinyl Chloride | 0.469 | 0.466 | 0.6# | 86 | 0.00 |
| 5 | T | Bromomethane | 0.264 | 0.250 | 5.3 | 91 | 0.00 |
| 6 | T | Chloroethane | 0.298 | 0.296 | 0.7 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.794 | 0.821 | -3.4 | 93 | 0.00 |
| 8 | T | Diethyl Ether | 0.274 | 0.277 | -1.1 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.453 | 0.461 | -1.8 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 0.595 | 0.594 | 0.2 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.124 | 0.116 | 6.5 | 90 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.445 | 0.413 | 7.2# | 83 | 0.00 |
| 13 | T | Acrolein | 0.072 | 0.058 | 19.4 | 75 | 0.00 |
| 14 | T | Allyl chloride | 0.647 | 0.660 | -2.0 | 93 | 0.00 |
| 15 | T | Acrylonitrile | 0.250 | 0.246 | 1.6 | 91 | 0.00 |
| 16 | T | Acetone | 0.240 | 0.228 | 5.0 | 87 | 0.00 |
| 17 | T | Carbon Disulfide | 1.142 | 1.022 | 10.5 | 80 | 0.00 |
| 18 | T | Methyl Acetate | 0.547 | 0.564 | -3.1 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.434 | 1.476 | -2.9 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 0.509 | 0.503 | 1.2 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.473 | 0.464 | 1.9 | 89 | 0.00 |
| 22 | T | Diisopropyl ether | 1.364 | 1.392 | -2.1 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.156 | 1.206 | -4.3 | 92 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.792 | 0.797 | -0.6 | 94 | 0.00 |
| 25 | T | 2-Butanone | 0.345 | 0.346 | -0.3 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.651 | 0.681 | -4.6 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.547 | 0.542 | 0.9 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 0.373 | 0.351 | 5.9 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.218 | 0.215 | 1.4 | 90 | 0.00 |
| 30 | C | Chloroform | 0.856 | 0.874 | -2.1# | 96 | 0.00 |
| 31 | T | Cyclohexane | 0.722 | 0.715 | 1.0 | 92 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.741 | 0.765 | -3.2 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.532 | 0.510 | 4.1 | 89 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.317 | 0.317 | 0.0 | 90 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.411 | 0.426 | -3.6 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 0.421 | 0.424 | -0.7 | 88 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.428 | 0.461 | -7.7 | 96 | -0.01 |
| 39 | T | Methylcyclohexane | 0.533 | 0.551 | -3.4 | 94 | 0.00 |
| 40 | TM | Benzene | 1.258 | 1.287 | -2.3 | 92 | 0.00 |
| 41 | T | Methacrylonitrile | 0.239 | 0.241 | -0.8 | 96 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.437 | 0.452 | -3.4 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.692 | 0.708 | -2.3 | 92 | -0.01 |
| 44 | TM | Trichloroethene | 0.372 | 0.379 | -1.9 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.320 | 0.330 | -3.1# | 94 | 0.00 |

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.229 | 0.241 | -5.2 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.407 | 0.447 | -9.8 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 0.337 | 0.347 | -3.0 | 94 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.009 | 0.0 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 1.190 | 1.167 | 1.9 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.448 | 0.472 | -5.4 | 93 | 0.00 |
| 52 | CM | Toluene | 0.826 | 0.851 | -3.0# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.438 | 0.495 | -13.0 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.487 | 0.528 | -8.4 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.340 | 0.359 | -5.6 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.498 | 0.542 | -8.8 | 94 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.540 | 0.565 | -4.6 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.238 | 0.247 | -3.8 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 0.348 | 0.371 | -6.6 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 0.345 | 0.395 | -14.5 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.361 | 0.382 | -5.8 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.438 | 0.459 | -4.8 | 92 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 64 | T | Tetrachloroethene | 0.393 | 0.402 | -2.3 | 96 | 0.00 |
| 65 | PM | Chlorobenzene | 1.027 | 1.052 | -2.4 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.361 | 0.396 | -9.7 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 1.748 | 1.837 | -5.1# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.671 | 0.708 | -5.5 | 96 | 0.00 |
| 69 | T | o-Xylene | 0.654 | 0.680 | -4.0 | 94 | 0.00 |
| 70 | T | Styrene | 1.091 | 1.197 | -9.7 | 96 | 0.00 |
| 71 | P | Bromoform | 0.288 | 0.327 | -13.5 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 73 | T | Isopropylbenzene | 3.378 | 3.427 | -1.5 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.291 | 1.323 | -2.5 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.106 | 1.099 | 0.6 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.902 | 0.932 | -3.3 | 97 | 0.00 |
| 77 | T | Bromobenzene | 0.932 | 0.928 | 0.4 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 3.733 | 3.868 | -3.6 | 98 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.242 | 2.291 | -2.2 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.823 | 2.920 | -3.4 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.328 | 0.331 | -0.9 | 93 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.610 | 2.705 | -3.6 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.773 | 2.907 | -4.8 | 99 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.845 | 2.971 | -4.4 | 98 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.249 | 3.491 | -7.4 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.004 | 3.256 | -8.4 | 101 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.617 | 1.690 | -4.5 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.659 | 1.691 | -1.9 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 2.570 | 2.863 | -11.4 | 102 | 0.00 |

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QLast Update : Wed Jul 24 05:39:23 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 | 0.474 | 0.525 | -10.8 | 102 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.603 | 1.655 | -3.2 | 99 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.231 | 0.237 | -2.6 | 95 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.086 | 1.185 | -9.1 | 102 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.538 | 0.581 | -8.0 | 103 | 0.00 |
| 95 T | Naphthalene | 3.208 | 3.343 | -4.2 | 95 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.081 | 1.163 | -7.6 | 101 | 0.00 |

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