# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100920\
Data File : VX018896.D
Acq On : 10 Oct 2020 08:08
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 53 Sample Multiplier: 1

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

Quant Time: Oct 11 23:04:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 10 06:09:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.519 | 0.620 | -19.5 | 89 | 0.00 |
| 3 | P | Chloromethane | 0.469 | 0.476 | -1.5 | 88 | 0.00 |
| 4 | C | Vinyl Chloride | 0.524 | 0.552 | -5.3# | 92 | 0.00 |
| 5 | T | Bromomethane | 0.292 | 0.337 | -15.4 | 103 | 0.00 |
| 6 | T | Chloroethane | 0.351 | 0.354 | -0.9 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.033 | 1.089 | -5.4 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 0.307 | 0.298 | 2.9 | 89 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.496 | 0.498 | -0.4 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 0.476 | 0.416 | 12.6 | 71 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.116 | 0.130 | -12.1 | 97 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.498 | 0.493 | 1.0# | 93 | 0.00 |
| 13 | T | Acrolein | 0.097 | 0.122 | -25.8# | 115 | 0.00 |
| 14 | T | Allyl chloride | 0.837 | 0.838 | -0.1 | 88 | 0.00 |
| 15 | T | Acrylonitrile | 0.246 | 0.264 | -7.3 | 93 | 0.00 |
| 16 | T | Acetone | 0.322 | 0.275 | 14.6 | 82 | 0.00 |
| 17 | T | Carbon Disulfide | 1.354 | 1.371 | -1.3 | 89 | 0.00 |
| 18 | T | Methyl Acetate | 0.613 | 0.759 | -23.8 | 113 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.548 | 1.679 | -8.5 | 92 | 0.00 |
| 20 | T | Methylene Chloride | 0.571 | 0.565 | 1.1 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.536 | 0.551 | -2.8 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 1.498 | 1.626 | -8.5 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.441 | 1.546 | -7.3 | 88 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.007 | 1.038 | -3.1 | 95 | 0.00 |
| 25 | T | 2-Butanone | 0.399 | 0.416 | -4.3 | 89 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.972 | 0.634 | 34.8# | 59 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.595 | 0.610 | -2.5 | 91 | 0.00 |
| 28 | T | Bromochloromethane | 0.479 | 0.466 | 2.7 | 95 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.214 | 0.237 | -10.7 | 95 | 0.00 |
| 30 | C | Chloroform | 1.110 | 1.141 | -2.8# | 93 | 0.00 |
| 31 | T | Cyclohexane | 0.689 | 0.739 | -7.3 | 92 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.055 | 1.084 | -2.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.737 | 0.760 | -3.1 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.356 | 0.340 | 4.5 | 91 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.526 | 0.485 | 7.8 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 0.508 | 0.514 | -1.2 | 92 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.652 | 0.642 | 1.5 | 92 | 0.00 |
| 39 | T | Methylcyclohexane | 0.485 | 0.463 | 4.5 | 89 | 0.00 |
| 40 | TM | Benzene | 1.412 | 1.380 | 2.3 | 93 | 0.00 |
| 41 | T | Methacrylonitrile | 0.295 | 0.287 | 2.7 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.662 | 0.637 | 3.8 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.844 | 0.828 | 1.9 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 0.424 | 0.398 | 6.1 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.374 | 0.366 | 2.1# | 95 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.276 | 0.266 | 3.6 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 0.598 | 0.586 | 2.0 | 93 | 0.00 |
| 48 | T | Methyl methacrylate | 0.428 | 0.428 | 0.0 | 92 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.006 | 0.006 | 0.0 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 1.236 | 1.232 | 0.3 | 94 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.492 | 0.529 | -7.5 | 93 | 0.00 |
| 52 | CM | Toluene | 0.906 | 0.906 | 0.0 | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.620 | 0.588 | 5.2 | 87 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.637 | 0.595 | 6.6 | 88 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.389 | 0.366 | 5.9 | 90 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.512 | 0.541 | -5.7 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.632 | 0.628 | 0.6 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.282 | 0.286 | -1.4 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 0.375 | 0.393 | -4.8 | 90 | 0.00 |
| 60 | T | Dibromochloromethane | 0.489 | 0.468 | 4.3 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.417 | 0.407 | 2.4 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.493 | 0.470 | 4.7 | 88 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 0.401 | 0.398 | 0.7 | 96 | 0.00 |
| 65 | PM | Chlorobenzene | 1.081 | 1.047 | 3.1 | 88 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.446 | 0.442 | 0.9 | 92 | 0.00 |
| 67 | C | Ethyl Benzene | 1.823 | 1.839 | -0.9# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 0.693 | 0.704 | -1.6 | 87 | 0.00 |
| 69 | T | o-Xylene | 0.652 | 0.652 | 0.0 | 86 | 0.00 |
| 70 | T | Styrene | 1.105 | 1.162 | -5.2 | 87 | 0.00 |
| 71 | P | Bromoform | 0.386 | 0.398 | -3.1 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 73 | T | Isopropylbenzene | 3.271 | 3.206 | 2.0 | 87 | 0.00 |
| 74 | T | N-amyl acetate | 1.294 | 1.216 | 6.0 | 80 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.090 | 0.992 | 9.0 | 89 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.077 | 0.966 | 10.3 | 87 | 0.00 |
| 77 | T | Bromobenzene | 0.898 | 0.838 | 6.7 | 86 | 0.00 |
| 78 | T | n-propylbenzene | 3.727 | 3.509 | 5.8 | 84 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.323 | 2.194 | 5.6 | 86 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.798 | 2.771 | 1.0 | 87 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.380 | 0.299 | 21.3 | 73 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.762 | 2.661 | 3.7 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.802 | 2.682 | 4.3 | 86 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.844 | 2.791 | 1.9 | 87 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.156 | 3.021 | 4.3 | 85 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.994 | 2.895 | 3.3 | 84 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.650 | 1.530 | 7.3 | 87 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.671 | 1.535 | 8.1 | 89 | 0.00 |
| 89 | T | n-Butylbenzene | 2.602 | 2.445 | 6.0 | 84 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.557 | 0.524 | 5.9 | 89 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.571 | 1.530 | 2.6 | 91 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.279 | 0.271 | 2.9 | 92 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.008 | 0.992 | 1.6 | 92 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.448 | 0.412 | 8.0 | 90 | 0.00 |
| 95 T | Naphthalene | 2.905 | 3.052 | -5.1 | 86 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.986 | 0.899 | 8.8 | 83 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5