# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
Data File : VX003245.D
Acq On : 09 Jul 2018 14:49
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** ICVVX070918

Quant Time: Jul 09 16:26:20 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 09 15:24:16 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 | 111 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.760 | 0.767 | -0.9 | 109 | 0.00 |
| 3 | P | Chloromethane | 0.691 | 0.623 | 9.8 | 104 | 0.00 |
| 4 | C | Vinyl Chloride | 0.709 | 0.668 | 5.8# | 107 | 0.00 |
| 5 | T | Bromomethane | 0.281 | 0.232 | 17.4 | 121 | 0.00 |
| 6 | T | Chloroethane | 0.393 | 0.385 | 2.0 | 111 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.054 | 1.011 | 4.1 | 111 | 0.00 |
| 8 | T | Diethyl Ether | 0.381 | 0.360 | 5.5 | 111 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.617 | 0.582 | 5.7 | 110 | 0.00 |
| 10 | T | Methyl Iodide | 0.612 | 0.435 | 28.9# | 76 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.143 | 0.136 | 4.9 | 107 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.562 | 0.523 | 6.9# | 111 | 0.00 |
| 13 | T | Acrolein | 0.115 | 0.098 | 14.8 | 97 | 0.00 |
| 14 | T | Allyl chloride | 1.041 | 1.000 | 3.9 | 111 | 0.00 |
| 15 | T | Acrylonitrile | 0.319 | 0.295 | 7.5 | 109 | 0.00 |
| 16 | T | Acetone | 0.279 | 0.267 | 4.3 | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 1.561 | 1.490 | 4.5 | 112 | 0.00 |
| 18 | T | Methyl Acetate | 0.788 | 0.774 | 1.8 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.877 | 1.762 | 6.1 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 0.631 | 0.567 | 10.1 | 108 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.599 | 0.560 | 6.5 | 109 | 0.00 |
| 22 | T | Diisopropyl ether | 2.117 | 1.821 | 14.0 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 1.798 | 1.598 | 11.1 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.102 | 1.014 | 8.0 | 108 | 0.00 |
| 25 | T | 2-Butanone | 0.494 | 0.461 | 6.7 | 106 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.964 | 0.928 | 3.7 | 112 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.736 | 0.664 | 9.8 | 103 | 0.00 |
| 28 | T | Bromochloromethane | 0.555 | 0.501 | 9.7 | 101 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.321 | 0.294 | 8.4 | 105 | 0.00 |
| 30 | C | Chloroform | 1.212 | 1.105 | 8.8# | 103 | 0.00 |
| 31 | T | Cyclohexane | 1.032 | 0.978 | 5.2 | 108 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.069 | 0.998 | 6.6 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.787 | 0.755 | 4.1 | 109 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.537 | 0.522 | 2.8 | 111 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.708 | 0.688 | 2.8 | 109 | 0.00 |
| 37 | T | Ethyl Acetate | 0.776 | 0.713 | 8.1 | 106 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.774 | 0.744 | 3.9 | 106 | 0.00 |
| 39 | T | Methylcyclohexane | 0.834 | 0.825 | 1.1 | 111 | 0.00 |
| 40 | TM | Benzene | 2.098 | 1.973 | 6.0 | 106 | 0.00 |
| 41 | T | Methacrylonitrile | 0.425 | 0.409 | 3.8 | 107 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.784 | 0.714 | 8.9 | 105 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.218 | 1.163 | 4.5 | 107 | 0.00 |
| 44 | TM | Trichloroethene | 0.620 | 0.600 | 3.2 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.545 | 0.499 | 8.4# | 106 | 0.00 |

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**ClientSampleId :** ICVVX070918

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.372 | 0.345 | 7.3 | 104 | 0.00 |
| 47 | T | Bromodichloromethane | 0.686 | 0.662 | 3.5 | 106 | 0.00 |
| 48 | T | Methyl methacrylate | 0.625 | 0.610 | 2.4 | 106 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.013 | 0.012 | 7.7 | 106 | 0.00 |
| 50 | S | Toluene-d8 | 1.908 | 1.925 | -0.9 | 110 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.759 | 0.746 | 1.7 | 106 | 0.00 |
| 52 | CM | Toluene | 1.326 | 1.277 | 3.7# | 107 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.807 | 0.807 | 0.0 | 107 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.734 | 0.747 | -1.8 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.550 | 0.511 | 7.1 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.753 | 0.756 | -0.4 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.886 | 0.832 | 6.1 | 106 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.363 | 0.396 | -9.1 | 112 | 0.00 |
| 59 | T | 2-Hexanone | 0.576 | 0.574 | 0.3 | 107 | 0.00 |
| 60 | T | Dibromochloromethane | 0.574 | 0.569 | 0.9 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.576 | 0.547 | 5.0 | 106 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.705 | 0.729 | -3.4 | 111 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 64 | T | Tetrachloroethene | 0.756 | 0.747 | 1.2 | 108 | 0.00 |
| 65 | PM | Chlorobenzene | 1.699 | 1.659 | 2.4 | 107 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.613 | 0.622 | -1.5 | 107 | 0.00 |
| 67 | C | Ethyl Benzene | 2.747 | 2.788 | -1.5# | 107 | 0.00 |
| 68 | T | m/p-Xylenes | 1.069 | 1.103 | -3.2 | 107 | 0.00 |
| 69 | T | o-Xylene | 1.035 | 1.055 | -1.9 | 107 | 0.00 |
| 70 | T | Styrene | 1.679 | 1.748 | -4.1 | 107 | 0.00 |
| 71 | P | Bromoform | 0.504 | 0.515 | -2.2 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 73 | T | Isopropylbenzene | 3.948 | 3.954 | -0.2 | 108 | 0.00 |
| 74 | T | N-amyl acetate | 1.883 | 1.790 | 4.9 | 107 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.224 | 1.152 | 5.9 | 105 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.081 | 1.050 | 2.9 | 108 | 0.00 |
| 77 | T | Bromobenzene | 1.140 | 1.118 | 1.9 | 107 | 0.00 |
| 78 | T | n-propylbenzene | 4.389 | 4.478 | -2.0 | 108 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.674 | 2.627 | 1.8 | 107 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.287 | 3.332 | -1.4 | 107 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.331 | 0.352 | -6.3 | 110 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.122 | 3.115 | 0.2 | 107 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.284 | 3.297 | -0.4 | 107 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.366 | 3.427 | -1.8 | 106 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.881 | 3.966 | -2.2 | 108 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.536 | 3.655 | -3.4 | 108 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 2.091 | 2.040 | 2.4 | 109 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.117 | 2.053 | 3.0 | 108 | 0.00 |
| 89 | T | n-Butylbenzene | 2.954 | 3.129 | -5.9 | 111 | 0.00 |

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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 | 0.540 | 0.550 | -1.9 | 110 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 2.099 | 2.011 | 4.2 | 106 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.263 | 0.262 | 0.4 | 105 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.528 | 1.553 | -1.6 | 109 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.761 | 0.775 | -1.8 | 112 | 0.00 |
| 95 T | Naphthalene | 3.998 | 4.125 | -3.2 | 105 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.524 | 1.553 | -1.9 | 108 | 0.00 |

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