# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX091719\
Data File : VX012434.D
Acq On : 17 Sep 2019 15:22
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** ICVVX091719

Quant Time: Sep 18 03:36:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 14:19:25 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 | 109 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.302 | 0.311 | -3.0 | 99 | 0.00 |
| 3 | P | Chloromethane | 0.275 | 0.259 | 5.8 | 98 | 0.00 |
| 4 | C | Vinyl Chloride | 0.297 | 0.278 | 6.4# | 97 | 0.00 |
| 5 | T | Bromomethane | 0.117 | 0.112 | 4.3 | 111 | 0.00 |
| 6 | T | Chloroethane | 0.232 | 0.191 | 17.7 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.545 | 0.525 | 3.7 | 98 | 0.00 |
| 8 | T | Diethyl Ether | 0.246 | 0.221 | 10.2 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.394 | 0.376 | 4.6 | 101 | 0.00 |
| 10 | T | Methyl Iodide | 0.301 | 0.285 | 5.3 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.193 | 0.147 | 23.8# | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.314 | 0.297 | 5.4# | 98 | 0.00 |
| 13 | T | Acrolein | 0.069 | 0.051 | 26.1# | 93 | 0.00 |
| 14 | T | Allyl chloride | 0.732 | 0.683 | 6.7 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 0.311 | 0.271 | 12.9 | 91 | 0.00 |
| 16 | T | Acetone | 0.363 | 0.307 | 15.4 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 0.389 | 0.408 | -4.9 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 0.747 | 0.653 | 12.6 | 93 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.714 | 1.574 | 8.2 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 0.434 | 0.382 | 12.0 | 96 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.326 | 0.312 | 4.3 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 1.714 | 1.551 | 9.5 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.410 | 1.334 | 5.4 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.820 | 0.764 | 6.8 | 97 | 0.00 |
| 25 | T | 2-Butanone | 0.497 | 0.427 | 14.1 | 92 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.806 | 0.754 | 6.5 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.488 | 0.450 | 7.8 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.423 | 0.380 | 10.2 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.275 | 0.245 | 10.9 | 91 | 0.00 |
| 30 | C | Chloroform | 0.942 | 0.840 | 10.8# | 97 | 0.00 |
| 31 | T | Cyclohexane | 0.495 | 0.476 | 3.8 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.787 | 0.729 | 7.4 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.717 | 0.646 | 9.9 | 107 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.303 | 0.292 | 3.6 | 109 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.304 | 0.292 | 3.9 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.466 | 0.457 | 1.9 | 93 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.378 | 0.368 | 2.6 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.295 | 0.315 | -6.8 | 101 | 0.00 |
| 40 | TM | Benzene | 0.966 | 0.944 | 2.3 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.300 | 0.273 | 9.0 | 93 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.448 | 0.420 | 6.3 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.837 | 0.785 | 6.2 | 93 | 0.00 |
| 44 | TM | Trichloroethene | 0.254 | 0.254 | 0.0 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.297 | 0.282 | 5.1# | 97 | 0.00 |

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**ClientSampleId :** ICVVX091719

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.192 | 0.182 | 5.2 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.428 | 0.424 | 0.9 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.395 | 0.366 | 7.3 | 91 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.008 | 20.0 | 87 | 0.00 |
| 50 | S | Toluene-d8 | 1.120 | 1.093 | 2.4 | 110 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.549 | 0.502 | 8.6 | 90 | 0.00 |
| 52 | CM | Toluene | 0.623 | 0.619 | 0.6# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.445 | 0.451 | -1.3 | 98 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.460 | 0.465 | -1.1 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.321 | 0.304 | 5.3 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.502 | 0.488 | 2.8 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.512 | 0.491 | 4.1 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.260 | 0.254 | 2.3 | 100 | 0.00 |
| 59 | T | 2-Hexanone | 0.428 | 0.393 | 8.2 | 90 | 0.00 |
| 60 | T | Dibromochloromethane | 0.327 | 0.332 | -1.5 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.293 | 0.290 | 1.0 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.465 | 0.452 | 2.8 | 111 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 64 | T | Tetrachloroethene | 0.229 | 0.223 | 2.6 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 0.825 | 0.803 | 2.7 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.342 | 0.345 | -0.9 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 1.418 | 1.403 | 1.1# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.516 | 0.514 | 0.4 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.531 | 0.530 | 0.2 | 98 | 0.00 |
| 70 | T | Styrene | 0.939 | 0.943 | -0.4 | 97 | 0.00 |
| 71 | P | Bromoform | 0.256 | 0.252 | 1.6 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 73 | T | Isopropylbenzene | 3.137 | 2.998 | 4.4 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 1.689 | 1.600 | 5.3 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.231 | 1.120 | 9.0 | 94 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.149 | 1.087 | 5.4 | 94 | 0.00 |
| 77 | T | Bromobenzene | 0.765 | 0.729 | 4.7 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 3.497 | 3.489 | 0.2 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.275 | 2.150 | 5.5 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.676 | 2.635 | 1.5 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.387 | 0.371 | 4.1 | 94 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.611 | 2.551 | 2.3 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.867 | 2.780 | 3.0 | 100 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.747 | 2.711 | 1.3 | 100 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.159 | 3.185 | -0.8 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.901 | 2.921 | -0.7 | 101 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.439 | 1.410 | 2.0 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.478 | 1.414 | 4.3 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 2.588 | 2.622 | -1.3 | 102 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.532 | 0.540 | -1.5 | 99 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.504 | 1.435 | 4.6 | 97 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.319 | 0.304 | 4.7 | 93 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.969 | 1.006 | -3.8 | 102 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.457 | 0.461 | -0.9 | 104 | 0.00 |
| 95 T | Naphthalene | 3.448 | 3.490 | -1.2 | 97 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.987 | 1.017 | -3.0 | 101 | 0.00 |

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