# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv101619\
Data File : VY000332.D
Acq On : 16 Oct 2019 17:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_Y
**LabSampleId :** VSTDCCC050

Quant Time: Oct 17 01:56:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
Quant Title : SW846 8260
QLast Update : Mon Oct 14 08:10:23 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 | 113 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.446 | 0.353 | 20.9# | 100 | 0.00 |
| 3 | P | Chloromethane | 0.611 | 0.502 | 17.8 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 0.617 | 0.558 | 9.6# | 107 | 0.00 |
| 5 | T | Bromomethane | 0.457 | 0.376 | 17.7 | 108 | 0.00 |
| 6 | T | Chloroethane | 0.398 | 0.376 | 5.5 | 110 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.843 | 0.785 | 6.9 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 0.298 | 0.305 | -2.3 | 120 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.512 | 0.489 | 4.5 | 111 | 0.00 |
| 10 | T | Methyl Iodide | 0.668 | 0.685 | -2.5 | 103 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.055 | 0.056 | -1.8 | 114 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.505 | 0.481 | 4.8# | 109 | 0.00 |
| 13 | T | Acrolein | 0.065 | 0.069 | -6.2 | 119 | 0.00 |
| 14 | T | Allyl chloride | 0.837 | 0.836 | 0.1 | 116 | 0.00 |
| 15 | T | Acrylonitrile | 0.167 | 0.166 | 0.6 | 111 | 0.00 |
| 16 | T | Acetone | 0.171 | 0.151 | 11.7 | 91 | 0.00 |
| 17 | T | Carbon Disulfide | 1.590 | 1.404 | 11.7 | 104 | 0.00 |
| 18 | T | Methyl Acetate | 0.424 | 0.404 | 4.7 | 117 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.406 | 1.445 | -2.8 | 118 | 0.00 |
| 20 | T | Methylene Chloride | 0.700 | 0.568 | 18.9 | 113 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.579 | 0.547 | 5.5 | 110 | 0.00 |
| 22 | T | Diisopropyl ether | 1.770 | 1.863 | -5.3 | 120 | 0.00 |
| 23 | T | Vinyl Acetate | 1.155 | 1.209 | -4.7 | 115 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.966 | 0.971 | -0.5 | 116 | -0.01 |
| 25 | T | 2-Butanone | 0.241 | 0.243 | -0.8 | 109 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.890 | 0.880 | 1.1 | 116 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.627 | 0.633 | -1.0 | 116 | 0.00 |
| 28 | T | Bromochloromethane | 0.415 | 0.428 | -3.1 | 115 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.146 | 0.148 | -1.4 | 112 | 0.00 |
| 30 | C | Chloroform | 0.973 | 0.975 | -0.2# | 114 | 0.00 |
| 31 | T | Cyclohexane | 1.009 | 0.936 | 7.2 | 111 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.865 | 0.875 | -1.2 | 114 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.527 | 0.582 | -10.4 | 121 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.302 | 0.310 | -2.6 | 120 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.490 | 0.453 | 7.6 | 113 | 0.00 |
| 37 | T | Ethyl Acetate | 0.290 | 0.286 | 1.4 | 114 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.474 | 0.442 | 6.8 | 111 | 0.00 |
| 39 | T | Methylcyclohexane | 0.641 | 0.591 | 7.8 | 110 | 0.00 |
| 40 | TM | Benzene | 1.415 | 1.331 | 5.9 | 112 | 0.00 |
| 41 | T | Methacrylonitrile | 0.138 | 0.119 | 13.8 | 101 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.404 | 0.392 | 3.0 | 115 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.551 | 0.541 | 1.8 | 113 | 0.00 |
| 44 | TM | Trichloroethene | 0.397 | 0.362 | 8.8 | 108 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.347 | 0.344 | 0.9# | 116 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.194 | 0.188 | 3.1 | 115 | 0.00 |
| 47 | T | Bromodichloromethane | 0.457 | 0.458 | -0.2 | 117 | 0.00 |
| 48 | T | Methyl methacrylate | 0.242 | 0.243 | -0.4 | 115 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 116 | 0.00 |
| 50 | S | Toluene-d8 | 1.160 | 1.253 | -8.0 | 119 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.284 | 0.293 | -3.2 | 116 | 0.00 |
| 52 | CM | Toluene | 0.898 | 0.857 | 4.6# | 113 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.490 | 0.498 | -1.6 | 118 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.557 | 0.559 | -0.4 | 116 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.282 | 0.277 | 1.8 | 118 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.402 | 0.425 | -5.7 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.485 | 0.492 | -1.4 | 118 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.160 | 0.215 | -34.4# | 158# | 0.00 |
| 59 | T | 2-Hexanone | 0.200 | 0.218 | -9.0 | 121 | 0.00 |
| 60 | T | Dibromochloromethane | 0.313 | 0.317 | -1.3 | 118 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.271 | 0.267 | 1.5 | 114 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.441 | 0.460 | -4.3 | 123 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 64 | T | Tetrachloroethene | 0.476 | 0.417 | 12.4 | 107 | 0.00 |
| 65 | PM | Chlorobenzene | 1.055 | 0.991 | 6.1 | 115 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.371 | 0.350 | 5.7 | 114 | 0.00 |
| 67 | C | Ethyl Benzene | 1.956 | 1.827 | 6.6# | 113 | 0.00 |
| 68 | T | m/p-Xylenes | 0.748 | 0.701 | 6.3 | 114 | 0.00 |
| 69 | T | o-Xylene | 0.713 | 0.659 | 7.6 | 113 | 0.00 |
| 70 | T | Styrene | 1.203 | 1.156 | 3.9 | 116 | 0.00 |
| 71 | P | Bromoform | 0.213 | 0.210 | 1.4 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 119 | 0.00 |
| 73 | T | Isopropylbenzene | 3.899 | 3.690 | 5.4 | 115 | 0.00 |
| 74 | T | N-amyl acetate | 0.957 | 1.140 | -19.1 | 132 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.732 | 0.737 | -0.7 | 121 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.615 | 0.583 | 5.2 | 108 | 0.00 |
| 77 | T | Bromobenzene | 0.868 | 0.814 | 6.2 | 116 | 0.00 |
| 78 | T | n-propylbenzene | 4.681 | 4.494 | 4.0 | 115 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.585 | 2.507 | 3.0 | 116 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.269 | 3.101 | 5.1 | 114 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.281 | 0.276 | 1.8 | 111 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.733 | 2.615 | 4.3 | 115 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.768 | 2.654 | 4.1 | 115 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.227 | 3.148 | 2.4 | 116 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.005 | 3.858 | 3.7 | 114 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.492 | 3.421 | 2.0 | 115 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.709 | 1.617 | 5.4 | 116 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.708 | 1.624 | 4.9 | 116 | 0.00 |
| 89 | T | n-Butylbenzene | 3.450 | 3.364 | 2.5 | 114 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.647 | 0.627 | 3.1 | 113 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.547 | 1.504 | 2.8 | 114 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.139 | 0.135 | 2.9 | 117 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.077 | 1.022 | 5.1 | 117 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.583 | 0.529 | 9.3 | 110 | 0.00 |
| 95 T | Naphthalene | 2.403 | 2.357 | 1.9 | 119 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.971 | 0.939 | 3.3 | 118 | 0.00 |

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