# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF042219\
Data File : VF062255.D
Acq On : 22 Apr 2019 20:38
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** MSVOA_F
**LabSampleId :** VSTDCCC050

Quant Time: Apr 23 02:00:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
QLast Update : Fri Apr 19 23:52:01 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 | 96 | 0.02 |
| 2 | T | Dichlorodifluoromethane | 0.760 | 0.732 | 3.7 | 97 | 0.00 |
| 3 | P | Chloromethane | 0.785 | 0.680 | 13.4 | 86 | 0.00 |
| 4 | C | Vinyl Chloride | 0.675 | 0.615 | 8.9# | 89 | 0.00 |
| 5 | T | Bromomethane | 0.392 | 0.421 | -7.4 | 99 | 0.00 |
| 6 | T | Chloroethane | 0.282 | 0.286 | -1.4 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.857 | 0.944 | -10.2 | 106 | 0.00 |
| 8 | T | Diethyl Ether | 0.178 | 0.171 | 3.9 | 90 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.586 | 0.600 | -2.4 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 1.040 | 1.070 | -2.9 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.032 | 0.028 | 12.5 | 89 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.557 | 0.548 | 1.6# | 97 | 0.00 |
| 13 | T | Acrolein | 0.019 | 0.020 | -5.3 | 148 | 0.01 |
| 14 | T | Allyl chloride | 0.639 | 0.724 | -13.3 | 116 | 0.01 |
| 15 | T | Acrylonitrile | 0.097 | 0.090 | 7.2 | 91 | 0.02 |
| 16 | T | Acetone | 0.110 | 0.101 | 8.2 | 89 | 0.00 |
| 17 | T | Carbon Disulfide | 1.548 | 1.460 | 5.7 | 88 | 0.01 |
| 18 | T | Methyl Acetate | 0.302 | 0.221 | 26.8# | 88 | 0.01 |
| 19 | T | Methyl tert-butyl Ether | 0.983 | 1.030 | -4.8 | 102 | 0.01 |
| 20 | T | Methylene Chloride | 0.699 | 0.509 | 27.2# | 89 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.551 | 0.536 | 2.7 | 93 | 0.01 |
| 22 | T | Diisopropyl ether | 1.635 | 1.562 | 4.5 | 95 | 0.01 |
| 23 | T | Vinyl Acetate | 0.779 | 0.687 | 11.8 | 81 | 0.02 |
| 24 | P | 1,1-Dichloroethane | 0.894 | 0.905 | -1.2 | 103 | 0.01 |
| 25 | T | 2-Butanone | 0.219 | 0.176 | 19.6 | 78 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 0.452 | 0.445 | 1.5 | 103 | 0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.713 | 0.696 | 2.4 | 92 | 0.01 |
| 28 | T | Bromochloromethane | 0.428 | 0.378 | 11.7 | 96 | 0.02 |
| 29 | T | Tetrahydrofuran | 0.099 | 0.080 | 19.2 | 78 | 0.01 |
| 30 | C | Chloroform | 1.099 | 1.062 | 3.4# | 94 | 0.01 |
| 31 | T | Cyclohexane | 1.072 | 0.908 | 15.3 | 83 | 0.02 |
| 32 | T | 1,1,1-Trichloroethane | 0.805 | 0.865 | -7.5 | 132 | 0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.458 | 0.507 | -10.7 | 102 | 0.02 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.01 |
| 35 | S | Dibromofluoromethane | 0.437 | 0.481 | -10.1 | 102 | 0.01 |
| 36 | T | 1,1-Dichloropropene | 0.599 | 0.584 | 2.5 | 88 | 0.02 |
| 37 | T | Ethyl Acetate | 0.283 | 0.243 | 14.1 | 79 | 0.02 |
| 38 | T | Carbon Tetrachloride | 0.531 | 0.578 | -8.9 | 107 | 0.02 |
| 39 | T | Methylcyclohexane | 0.718 | 0.693 | 3.5 | 87 | 0.02 |
| 40 | TM | Benzene | 1.572 | 1.514 | 3.7 | 88 | 0.01 |
| 41 | T | Methacrylonitrile | 0.163 | 0.156 | 4.3 | 85 | 0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.416 | 0.422 | -1.4 | 92 | 0.02 |
| 43 | T | Isopropyl Acetate | 0.298 | 0.242 | 18.8 | 76 | 0.01 |
| 44 | TM | Trichloroethene | 0.425 | 0.442 | -4.0 | 94 | 0.02 |
| 45 | C | 1,2-Dichloropropane | 0.346 | 0.320 | 7.5# | 85 | 0.02 |

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ALS Vial : 20 Sample Multiplier: 1

**Instrument :** MSVOA_F
**LabSampleId :** VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
QLast Update : Fri Apr 19 23:52:01 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.230 | 0.234 | -1.7 | 89 | 0.01 |
| 47 | T | Bromodichloromethane | 0.520 | 0.534 | -2.7 | 94 | 0.02 |
| 48 | T | Methyl methacrylate | 0.196 | 0.173 | 11.7 | 82 | 0.02 |
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 77 | 0.01 |
| 50 | S | Toluene-d8 | 1.107 | 1.168 | -5.5 | 94 | 0.01 |
| 51 | T | 4-Methyl-2-Pentanone | 0.221 | 0.182 | 17.6 | 76 | 0.01 |
| 52 | CM | Toluene | 0.829 | 0.797 | 3.9# | 85 | 0.01 |
| 53 | T | t-1,3-Dichloropropene | 0.391 | 0.377 | 3.6 | 87 | 0.02 |
| 54 | T | cis-1,3-Dichloropropene | 0.528 | 0.501 | 5.1 | 86 | 0.02 |
| 55 | T | 1,1,2-Trichloroethane | 0.232 | 0.235 | -1.3 | 92 | 0.01 |
| 56 | T | Ethyl methacrylate | 0.264 | 0.242 | 8.3 | 85 | 0.01 |
| 57 | T | 1,3-Dichloropropane | 0.375 | 0.347 | 7.5 | 84 | 0.02 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.077 | 0.073 | 5.2 | 83 | 0.02 |
| 59 | T | 2-Hexanone | 0.146 | 0.106 | 27.4# | 70 | 0.01 |
| 60 | T | Dibromochloromethane | 0.345 | 0.376 | -9.0 | 98 | 0.02 |
| 61 | T | 1,2-Dibromoethane | 0.262 | 0.267 | -1.9 | 92 | 0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.426 | 0.450 | -5.6 | 99 | 0.01 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.01 |
| 64 | T | Tetrachloroethene | 0.451 | 0.505 | -12.0 | 102 | 0.02 |
| 65 | PM | Chlorobenzene | 1.066 | 1.096 | -2.8 | 89 | 0.02 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.499 | 0.538 | -7.8 | 98 | 0.02 |
| 67 | C | Ethyl Benzene | 1.939 | 1.883 | 2.9# | 90 | 0.02 |
| 68 | T | m/p-Xylenes | 0.714 | 0.720 | -0.8 | 94 | 0.02 |
| 69 | T | o-Xylene | 0.792 | 0.802 | -1.3 | 91 | 0.02 |
| 70 | T | Styrene | 1.118 | 1.122 | -0.4 | 94 | 0.01 |
| 71 | P | Bromoform | 0.264 | 0.290 | -9.8 | 101 | 0.02 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.01 |
| 73 | T | Isopropylbenzene | 4.295 | 4.093 | 4.7 | 94 | 0.01 |
| 74 | T | N-amyl acetate | 1.135 | 0.771 | 32.1# | 76 | 0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.739 | 0.692 | 6.4 | 93 | 0.01 |
| 76 | T | 1,2,3-Trichloropropane | 0.508 | 0.466 | 8.3 | 92 | 0.01 |
| 77 | T | Bromobenzene | 0.920 | 0.999 | -8.6 | 109 | 0.01 |
| 78 | T | n-propylbenzene | 4.531 | 4.207 | 7.2 | 95 | 0.01 |
| 79 | T | 2-Chlorotoluene | 2.748 | 2.574 | 6.3 | 95 | 0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.577 | 3.498 | 2.2 | 98 | 0.01 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.259 | 0.189 | 27.0# | 72 | 0.01 |
| 82 | T | 4-Chlorotoluene | 2.656 | 2.429 | 8.5 | 94 | 0.01 |
| 83 | T | tert-Butylbenzene | 3.699 | 3.607 | 2.5 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.462 | 2.648 | 23.5# | 79 | 0.01 |
| 85 | T | sec-Butylbenzene | 4.803 | 4.478 | 6.8 | 92 | 0.01 |
| 86 | T | p-Isopropyltoluene | 4.074 | 3.984 | 2.2 | 98 | 0.01 |
| 87 | T | 1,3-Dichlorobenzene | 1.707 | 1.671 | 2.1 | 102 | 0.01 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.620 | 1.6 | 101 | 0.01 |
| 89 | T | n-Butylbenzene | 3.906 | 3.474 | 11.1 | 98 | 0.00 |

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**LabSampleId :** VSTDCCC050

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Quant Title : SW846 8260
QLast Update : Fri Apr 19 23:52:01 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 | 1.046 | 1.054 | -0.8 | 99 | 0.01 |
| 91 T | 1,2-Dichlorobenzene | 1.649 | 1.641 | 0.5 | 103 | 0.01 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.145 | 0.133 | 8.3 | 89 | 0.01 |
| 93 T | 1,2,4-Trichlorobenzene | 1.379 | 1.423 | -3.2 | 106 | 0.01 |
| 94 T | Hexachlorobutadiene | 0.946 | 1.054 | -11.4 | 110 | 0.00 |
| 95 T | Naphthalene | 2.412 | 2.363 | 2.0 | 99 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.324 | 1.399 | -5.7 | 103 | 0.01 |

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