Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD050219\
Data File : VD062108.D
Acq On : 2 May 2019 13:15
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: May 03 01:15:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Thu May 02 07:55:52 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 | 82 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 0.446 | 0.406 | 9.0 | 73 | -0.02 |
| 3 | P | Chloromethane | 0.379 | 0.299 | 21.1# | 70 | 0.00 |
| 4 | C | Vinyl Chloride | 0.344 | 0.313 | 9.0# | 78 | 0.00 |
| 5 | T | Bromomethane | 0.098 | 0.091 | 7.1 | 77 | -0.02 |
| 6 | T | Chloroethane | 0.124 | 0.131 | -5.6 | 84 | -0.02 |
| 7 | T | Trichlorofluoromethane | 0.520 | 0.565 | -8.7 | 92 | -0.02 |
| 8 | T | Diethyl Ether | 0.139 | 0.129 | 7.2 | 80 | -0.02 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.479 | 0.492 | -2.7 | 88 | -0.03 |
| 10 | T | Methyl Iodide | 0.598 | 0.673 | -12.5 | 81 | -0.03 |
| 11 | T | Tert butyl alcohol | 0.022 | 0.024 | -9.1 | 92 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.408 | 0.390 | 4.4# | 81 | -0.03 |
| 13 | T | Acrolein | 0.023 | 0.020 | 13.0 | 83 | -0.03 |
| 14 | T | Allyl chloride | 0.557 | 0.590 | -5.9 | 92 | -0.03 |
| 15 | T | Acrylonitrile | 0.068 | 0.072 | -5.9 | 90 | -0.03 |
| 16 | T | Acetone | 0.093 | 0.108 | -16.1 | 95 | -0.02 |
| 17 | T | Carbon Disulfide | 1.178 | 1.188 | -0.8 | 85 | -0.03 |
| 18 | T | Methyl Acetate | 0.188 | 0.187 | 0.5 | 100 | -0.03 |
| 19 | T | Methyl tert-butyl Ether | 0.809 | 0.798 | 1.4 | 85 | -0.03 |
| 20 | T | Methylene Chloride | 0.518 | 0.465 | 10.2 | 86 | -0.02 |
| 21 | T | trans-1,2-Dichloroethene | 0.468 | 0.457 | 2.4 | 81 | -0.02 |
| 22 | T | Diisopropyl ether | 1.299 | 1.367 | -5.2 | 91 | -0.03 |
| 23 | T | Vinyl Acetate | 0.677 | 0.765 | -13.0 | 95 | -0.03 |
| 24 | P | 1,1-Dichloroethane | 0.785 | 0.767 | 2.3 | 86 | -0.03 |
| 25 | T | 2-Butanone | 0.113 | 0.128 | -13.3 | 98 | -0.03 |
| 26 | T | 2,2-Dichloropropane | 0.685 | 0.740 | -8.0 | 95 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.532 | 0.552 | -3.8 | 92 | -0.03 |
| 28 | T | Bromochloromethane | 0.300 | 0.314 | -4.7 | 91 | -0.03 |
| 29 | | Tetrahydrofuran | 0.056 | 0.055 | 1.8 | 80 | -0.03 |
| 30 | C | Chloroform | 0.892 | 0.881 | 1.2# | 80 | -0.03 |
| 31 | T | Cyclohexane | 0.583 | 0.594 | -1.9 | 80 | -0.02 |
| 32 | T | 1,1,1-Trichloroethane | 0.776 | 0.807 | -4.0 | 81 | -0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.391 | 0.426 | -9.0 | 98 | -0.02 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 74 | -0.02 |
| 35 | S | Dibromofluoromethane | 0.346 | 0.415 | -19.9 | 91 | -0.02 |
| 36 | T | 1,1-Dichloropropene | 0.390 | 0.424 | -8.7 | 80 | -0.02 |
| 37 | T | Ethyl Acetate | 0.166 | 0.185 | -11.4 | 91 | -0.02 |
| 38 | T | Carbon Tetrachloride | 0.494 | 0.544 | -10.1 | 76 | -0.02 |
| 39 | T | Methylcyclohexane | 0.384 | 0.379 | 1.3 | 73 | -0.02 |
| 40 | TM | Benzene | 0.964 | 1.046 | -8.5 | 81 | -0.02 |
| 41 | T | Methacrylonitrile | 0.194 | 0.223 | -14.9 | 82 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.327 | 0.367 | -12.2 | 87 | -0.02 |
| 43 | T | Isopropyl Acetate | 0.243 | 0.253 | -4.1 | 81 | -0.02 |
| 44 | TM | Trichloroethene | 0.374 | 0.391 | -4.5 | 77 | -0.02 |
| 45 | C | 1,2-Dichloropropane | 0.245 | 0.273 | -11.4# | 84 | -0.02 |

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Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: May 03 01:15:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Thu May 02 07:55:52 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 | 0.176 | 0.188 | -6.8 | 80 | -0.02 |
| 47 | T | Bromodichloromethane | 0.416 | 0.463 | -11.3 | 86 | -0.02 |
| 48 | T | Methyl methacrylate | 0.138 | 0.149 | -8.0 | 86 | -0.02 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 78 | 0.00 |
| 50 | S | Toluene-d8 | 0.823 | 1.000 | -21.5# | 95 | -0.02 |
| 51 | T | 4-Methyl-2-Pentanone | 0.148 | 0.160 | -8.1 | 83 | 0.00 |
| 52 | CM | Toluene | 0.615 | 0.578 | 6.0# | 76 | -0.02 |
| 53 | T | t-1,3-Dichloropropene | 0.349 | 0.420 | -20.3# | 87 | -0.02 |
| 54 | T | cis-1,3-Dichloropropene | 0.425 | 0.483 | -13.6 | 87 | -0.02 |
| 55 | T | 1,1,2-Trichloroethane | 0.206 | 0.225 | -9.2 | 84 | -0.02 |
| 56 | T | Ethyl methacrylate | 0.229 | 0.247 | -7.9 | 84 | -0.02 |
| 57 | T | 1,3-Dichloropropane | 0.319 | 0.329 | -3.1 | 82 | -0.02 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.106 | 0.114 | -7.5 | 89 | -0.02 |
| 59 | T | 2-Hexanone | 0.111 | 0.126 | -13.5 | 86 | 0.00 |
| 60 | T | Dibromochloromethane | 0.342 | 0.367 | -7.3 | 82 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.245 | 0.275 | -12.2 | 92 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.330 | 0.366 | -10.9 | 88 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 83 | 0.00 |
| 64 | T | Tetrachloroethene | 0.357 | 0.339 | 5.0 | 81 | -0.02 |
| 65 | PM | Chlorobenzene | 0.945 | 0.913 | 3.4 | 84 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.401 | 0.385 | 4.0 | 82 | 0.00 |
| 67 | C | Ethyl Benzene | 1.542 | 1.453 | 5.8# | 83 | 0.00 |
| 68 | T | m/p-Xylenes | 0.557 | 0.538 | 3.4 | 87 | 0.00 |
| 69 | T | o-Xylene | 0.510 | 0.501 | 1.8 | 88 | 0.00 |
| 70 | T | Styrene | 0.881 | 0.863 | 2.0 | 86 | 0.00 |
| 71 | P | Bromoform | 0.228 | 0.240 | -5.3 | 91 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 3.335 | 3.067 | 8.0 | 84 | 0.00 |
| 74 | T | N-amyl acetate | 0.859 | 0.833 | 3.0 | 87 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.654 | 0.610 | 6.7 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.635 | 0.598 | 5.8 | 82 | 0.00 |
| 77 | T | Bromobenzene | 0.957 | 0.901 | 5.9 | 86 | 0.00 |
| 78 | T | n-propylbenzene | 3.818 | 3.503 | 8.3 | 86 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.313 | 2.160 | 6.6 | 85 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.659 | 2.454 | 7.7 | 85 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.192 | 0.170 | 11.5 | 80 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.547 | 2.321 | 8.9 | 83 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.081 | 2.624 | 14.8 | 74 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.539 | 2.577 | -1.5 | 84 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.329 | 3.096 | 7.0 | 83 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.979 | 2.726 | 8.5 | 77 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.676 | 1.463 | 12.7 | 79 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.567 | 1.527 | 2.6 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 2.675 | 2.581 | 3.5 | 87 | 0.00 |

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ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: May 03 01:15:41 2019
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Quant Title : SW846 8260
QLast Update : Thu May 02 07:55:52 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 | 0.806 | 0.810 | -0.5 | 86 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.382 | 1.359 | 1.7 | 91 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.093 | -6.9 | 93 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.746 | 0.828 | -11.0 | 93 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.552 | 0.583 | -5.6 | 85 | 0.00 |
| 95 T | Naphthalene | 1.204 | 1.244 | -3.3 | 92 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.423 | 0.491 | -16.1 | 93 | 0.00 |

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