Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
Data File : VX033655.D
Acq On : 09 Jan 2023 10:35
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC020

Quant Time: Jan 10 00:44:21 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 88 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 3.137 | 3.010 | 4.0 | 81 | 0.00 |
| 3 | M | Chloromethane | 3.363 | 2.760 | 17.9 | 68 | 0.00 |
| 4 | M | Vinyl Chloride | 3.038 | 2.669 | 12.1 | 80 | 0.00 |
| 5 | M | Bromomethane | 1.683 | 1.704 | -1.2 | 87 | 0.00 |
| 6 | M | Chloroethane | 1.779 | 1.628 | 8.5 | 81 | 0.00 |
| 7 | M | Trichlorofluoromethane | 4.688 | 4.759 | -1.5 | 85 | 0.00 |
| 8 | T | Diethyl Ether | 1.526 | 1.448 | 5.1 | 90 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 2.431 | 2.505 | -3.0 | 98 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 2.292 | 2.248 | 1.9 | 93 | 0.00 |
| 11 | | Methyl Iodide | 3.940 | 4.169 | -5.8 | 103 | 0.00 |
| 12 | | Methyl Acetate | 4.798 | 5.393 | -12.4 | 99 | 0.00 |
| 13 | M | Acrolein | 0.517 | 0.440 | 14.9 | 85 | 0.00 |
| 14 | M | Acrylonitrile | 1.582 | 1.749 | -10.6 | 94 | 0.00 |
| 15 | M | Acetone | 0.358 | 0.410 | -14.5 | 112 | 0.00 |
| 16 | M | Carbon Disulfide | 6.669 | 8.821 | -32.3# | 130 | 0.00 |
| 17 | | Allyl chloride | 4.875 | 6.041 | -23.9 | 108 | 0.00 |
| 18 | M | Methylene Chloride | 3.210 | 3.613 | -12.6 | 100 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 3.079 | 3.451 | -12.1 | 96 | 0.00 |
| 20 | T | Diisopropyl ether | 10.523 | 11.827 | -12.4 | 94 | -0.01 |
| 21 | M | 1,1-Dichloroethane | 5.771 | 6.220 | -7.8 | 93 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 3.662 | 4.050 | -10.6 | 96 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 0.625 | 0.626 | -0.2 | 85 | -0.02 |
| 24 | M | Methyl tert-Butyl Ether | 9.786 | 10.821 | -10.6 | 93 | 0.00 |
| 25 | M | Chloroform | 5.857 | 6.537 | -11.6 | 94 | 0.00 |
| 26 | | Cyclohexane | 5.356 | 5.974 | -11.5 | 96 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 2.429 | 2.732 | -12.5 | 92 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 29 | | 1,1-Dichloropropene | 0.648 | 0.677 | -4.5 | 95 | 0.00 |
| 30 | M | 2-Butanone | 0.339 | 0.356 | -5.0 | 95 | 0.00 |
| 31 | | 2,2-Dichloropropane | 0.558 | 0.679 | -21.7 | 114 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 0.757 | 0.815 | -7.7 | 99 | 0.00 |
| 33 | M | Carbon Tetrachloride | 0.683 | 0.774 | -13.3 | 105 | 0.00 |
| 34 | M | Benzene | 1.884 | 1.956 | -3.8 | 96 | 0.00 |
| 35 | | Methacrylonitrile | 0.386 | 0.386 | 0.0 | 91 | -0.01 |
| 36 | M | 1,2-Dichloroethane | 0.685 | 0.724 | -5.7 | 94 | 0.00 |
| 37 | M | Trichloroethene | 0.543 | 0.550 | -1.3 | 94 | 0.00 |
| 38 | | Methylcyclohexane | 0.806 | 0.854 | -6.0 | 98 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 0.481 | 0.496 | -3.1 | 94 | 0.00 |
| 40 | | Dibromomethane | 0.338 | 0.349 | -3.3 | 94 | 0.00 |
| 41 | M | Bromodichloromethane | 0.656 | 0.733 | -11.7 | 103 | 0.00 |
| 42 | M | Vinyl Acetate | 1.210 | 1.219 | -0.7 | 91 | 0.00 |
| 43 | | Ethyl Acetate | 0.694 | 0.680 | 2.0 | 85 | 0.00 |
| 44 | | Isopropyl Acetate | 1.089 | 1.078 | 1.0 | 93 | 0.00 |
| 45 | T | 1,4-Dioxane | 0.012 | 0.012 | 0.0 | 89 | 0.00 |
| 46 | | Methyl methacrylate | 0.551 | 0.551 | 0.0 | 91 | 0.00 |
| 47 | | n-amyl Acetate | 0.927 | 0.929 | -0.2 | 92 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 0.671 | 0.741 | -10.4 | 106 | 0.00 |

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Data File : VX033655.D
Acq On : 09 Jan 2023 10:35
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC020

Quant Time: Jan 10 00:44:21 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | cis-1,3-Dichloropropene | 0.745 | 0.817 | -9.7 | 105 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 0.491 | 0.500 | -1.8 | 94 | 0.00 |
| 51 | | Ethyl methacrylate | 0.732 | 0.731 | 0.1 | 92 | 0.00 |
| 52 | | 1,3-Dichloropropane | 0.823 | 0.831 | -1.0 | 92 | 0.00 |
| 53 | M | Dibromochloromethane | 0.535 | 0.616 | -15.1 | 111 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 0.525 | 0.548 | -4.4 | 97 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 0.354 | 0.351 | 0.8 | 92 | 0.00 |
| 56 | M | Bromoform | 0.411 | 0.492 | -19.7 | 114 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 0.596 | 0.628 | -5.4 | 92 | 0.00 |
| 59 | M | 2-Hexanone | 0.439 | 0.474 | -8.0 | 95 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 0.541 | 0.557 | -3.0 | 92 | 0.00 |
| 61 | M | Tetrachloroethene | 0.433 | 0.449 | -3.7 | 96 | 0.00 |
| 62 | M | Toluene | 1.888 | 1.990 | -5.4 | 94 | 0.00 |
| 63 | S | Toluene-d8 | 0.960 | 0.986 | -2.7 | 91 | 0.00 |
| 64 | M | Chlorobenzene | 1.216 | 1.256 | -3.3 | 94 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 0.458 | 0.500 | -9.2 | 99 | 0.00 |
| 66 | M | Ethyl Benzene | 2.106 | 2.218 | -5.3 | 95 | 0.00 |
| 67 | M | m/p-Xylenes | 0.831 | 0.883 | -6.3 | 94 | 0.00 |
| 68 | M | o-Xylene | 0.817 | 0.857 | -4.9 | 94 | 0.00 |
| 69 | M | Styrene | 1.352 | 1.433 | -6.0 | 95 | 0.00 |
| 70 | | Isopropylbenzene | 2.116 | 2.295 | -8.5 | 96 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 0.637 | 0.695 | -9.1 | 97 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 0.577 | 0.631 | -9.4 | 97 | 0.00 |
| 73 | | Bromobenzene | 0.560 | 0.581 | -3.7 | 94 | 0.00 |
| 74 | | n-propylbenzene | 2.402 | 2.632 | -9.6 | 98 | 0.00 |
| 75 | | 2-Chlorotoluene | 1.437 | 1.558 | -8.4 | 97 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 1.757 | 1.927 | -9.7 | 98 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 0.173 | 0.216 | -24.9 | 124 | 0.00 |
| 78 | | 4-Chlorotoluene | 1.611 | 1.768 | -9.7 | 98 | 0.00 |
| 79 | | tert-butylbenzene | 1.802 | 1.970 | -9.3 | 97 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 1.735 | 1.894 | -9.2 | 97 | 0.00 |
| 81 | | sec-Butylbenzene | 2.180 | 2.391 | -9.7 | 99 | 0.00 |
| 82 | | p-Isopropyltoluene | 1.880 | 2.075 | -10.4 | 99 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 1.022 | 1.090 | -6.7 | 97 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 1.019 | 1.079 | -5.9 | 96 | 0.00 |
| 85 | | n-Butylbenzene | 1.529 | 1.721 | -12.6 | 104 | 0.00 |
| 86 | T | Hexachloroethane | 0.306 | 0.396 | -29.4# | 125 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 0.985 | 1.058 | -7.4 | 98 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 0.132 | 0.143 | -8.3 | 99 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 0.677 | 0.717 | -5.9 | 97 | 0.00 |
| 90 | | Hexachlorobutadiene | 0.325 | 0.359 | -10.5 | 103 | 0.00 |
| 91 | M | Naphthalene | 1.989 | 2.108 | -6.0 | 95 | 0.00 |
| 92 | | 1,2,3-Trichlorobenzene | 0.679 | 0.717 | -5.6 | 98 | 0.00 |

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