# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041219\
Data File : VN054991.D
Acq On : 12 Apr 2019 10:44
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC020

Quant Time: Apr 12 23:14:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 30.000 | 30.000 | 0.0 | 108 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 20.000 | 20.204 | -1.0 | 105 | 0.00 |
| 3 | M | Chloromethane | 20.000 | 20.371 | -1.9 | 110 | 0.00 |
| 4 | M | Vinyl Chloride | 20.000 | 20.095 | -0.5 | 108 | 0.00 |
| 5 | M | Bromomethane | 20.000 | 20.216 | -1.1 | 111 | 0.00 |
| 6 | M | Chloroethane | 20.000 | 20.032 | -0.2 | 108 | 0.00 |
| 7 | M | Trichlorofluoromethane | 20.000 | 20.565 | -2.8 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 20.000 | 20.972 | -4.9 | 113 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 20.000 | 20.998 | -5.0 | 110 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 20.000 | 19.849 | 0.8 | 106 | 0.00 |
| 11 | | Methyl Iodide | 20.000 | 20.620 | -3.1 | 115 | 0.00 |
| 12 | | Methyl Acetate | 20.000 | 21.178 | -5.9 | 118 | 0.00 |
| 13 | M | Acrolein | 100.000 | 90.242 | 9.8 | 101 | 0.00 |
| 14 | M | Acrylonitrile | 100.000 | 102.166 | -2.2 | 115 | 0.00 |
| 15 | M | Acetone | 100.000 | 99.438 | 0.6 | 93 | 0.00 |
| 16 | M | Carbon Disulfide | 20.000 | 19.229 | 3.9 | 110 | 0.00 |
| 17 | | Allyl chloride | 20.000 | 20.003 | -0.0 | 110 | 0.00 |
| 18 | M | Methylene Chloride | 20.000 | 20.399 | -2.0 | 112 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 20.000 | 20.306 | -1.5 | 111 | 0.00 |
| 20 | T | Diisopropyl ether | 20.000 | 20.366 | -1.8 | 112 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 20.000 | 20.542 | -2.7 | 112 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 20.000 | 20.473 | -2.4 | 113 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 100.000 | 104.342 | -4.3 | 123 | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 20.000 | 20.538 | -2.7 | 115 | 0.00 |
| 25 | M | Chloroform | 20.000 | 20.670 | -3.4 | 112 | 0.00 |
| 26 | | Cyclohexane | 20.000 | 20.167 | -0.8 | 111 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 30.000 | 28.948 | 3.5 | 101 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 30.000 | 30.000 | 0.0 | 103 | 0.00 |
| 29 | | 1,1-Dichloropropene | 20.000 | 21.245 | -6.2 | 113 | 0.00 |
| 30 | M | 2-Butanone | 100.000 | 104.860 | -4.9 | 108 | 0.00 |
| 31 | | 2,2-Dichloropropane | 20.000 | 21.072 | -5.4 | 113 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 20.000 | 21.182 | -5.9 | 114 | 0.00 |
| 33 | M | Carbon Tetrachloride | 20.000 | 20.255 | -1.3 | 111 | 0.00 |
| 34 | M | Benzene | 20.000 | 20.824 | -4.1 | 111 | 0.00 |
| 35 | | Methacrylonitrile | 20.000 | 21.343 | -6.7 | 112 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 20.000 | 21.015 | -5.1 | 111 | 0.00 |
| 37 | M | Trichloroethene | 20.000 | 20.199 | -1.0 | 106 | 0.00 |
| 38 | | Methylcyclohexane | 20.000 | 20.521 | -2.6 | 109 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 20.000 | 21.349 | -6.7 | 114 | 0.00 |
| 40 | | Dibromomethane | 20.000 | 20.417 | -2.1 | 107 | 0.00 |
| 41 | M | Bromodichloromethane | 20.000 | 20.667 | -3.3 | 113 | 0.00 |
| 42 | M | Vinyl Acetate | 100.000 | 103.174 | -3.2 | 116 | 0.00 |
| 43 | | Ethyl Acetate | 20.000 | 20.487 | -2.4 | 112 | 0.00 |
| 44 | | Isopropyl Acetate | 20.000 | 20.586 | -2.9 | 118 | 0.00 |
| 45 | T | 1,4-Dioxane | 400.000 | 416.605 | -4.2 | 108 | 0.00 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 20.000 | 21.323 | -6.6 | 124 | 0.00 |
| 47 | | n-amyl Acetate | 20.000 | 19.219 | 3.9 | 113 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 20.000 | 19.512 | 2.4 | 117 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 20.000 | 19.960 | 0.2 | 113 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 20.000 | 20.975 | -4.9 | 113 | 0.00 |
| 51 | | Ethyl methacrylate | 20.000 | 19.477 | 2.6 | 115 | 0.00 |
| 52 | | 1,3-Dichloropropane | 20.000 | 20.865 | -4.3 | 112 | 0.00 |
| 53 | M | Dibromochloromethane | 20.000 | 19.742 | 1.3 | 112 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 20.000 | 21.012 | -5.1 | 119 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 100.000 | 92.757 | 7.2 | 102 | 0.00 |
| 56 | M | Bromoform | 20.000 | 19.077 | 4.6 | 115 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 30.000 | 30.000 | 0.0 | 103 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 100.000 | 105.470 | -5.5 | 115 | 0.00 |
| 59 | M | 2-Hexanone | 100.000 | 105.268 | -5.3 | 110 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 30.000 | 29.814 | 0.6 | 105 | 0.00 |
| 61 | M | Tetrachloroethene | 20.000 | 21.330 | -6.6 | 108 | 0.00 |
| 62 | M | Toluene | 20.000 | 20.783 | -3.9 | 109 | 0.00 |
| 63 | S | Toluene-d8 | 30.000 | 29.999 | 0.0 | 101 | 0.00 |
| 64 | M | Chlorobenzene | 20.000 | 20.716 | -3.6 | 108 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 20.000 | 20.669 | -3.3 | 112 | 0.00 |
| 66 | M | Ethyl Benzene | 20.000 | 20.802 | -4.0 | 110 | 0.00 |
| 67 | M | m/p-Xylenes | 40.000 | 42.487 | -6.2 | 110 | 0.00 |
| 68 | M | o-Xylene | 20.000 | 21.422 | -7.1 | 112 | 0.00 |
| 69 | M | Styrene | 20.000 | 20.414 | -2.1 | 109 | 0.00 |
| 70 | | Isopropylbenzene | 20.000 | 20.941 | -4.7 | 109 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 20.000 | 21.637 | -8.2 | 114 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 20.000 | 20.712 | -3.6 | 107 | 0.00 |
| 73 | | Bromobenzene | 20.000 | 20.154 | -0.8 | 107 | 0.00 |
| 74 | | n-propylbenzene | 20.000 | 20.989 | -4.9 | 109 | 0.00 |
| 75 | | 2-Chlorotoluene | 20.000 | 21.329 | -6.6 | 110 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 20.000 | 21.109 | -5.5 | 108 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 20.000 | 19.092 | 4.5 | 120 | 0.00 |
| 78 | | 4-Chlorotoluene | 20.000 | 20.765 | -3.8 | 110 | 0.00 |
| 79 | | tert-butylbenzene | 20.000 | 21.133 | -5.7 | 109 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 20.000 | 20.981 | -4.9 | 111 | 0.00 |
| 81 | | sec-Butylbenzene | 20.000 | 21.114 | -5.6 | 108 | 0.00 |
| 82 | | p-Isopropyltoluene | 20.000 | 20.546 | -2.7 | 106 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 20.000 | 20.568 | -2.8 | 110 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 20.000 | 19.829 | 0.9 | 108 | 0.00 |
| 85 | | n-Butylbenzene | 20.000 | 19.005 | 5.0 | 105 | 0.00 |
| 86 | T | Hexachloroethane | 20.000 | 19.976 | 0.1 | 109 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 20.000 | 20.748 | -3.7 | 110 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 20.000 | 19.172 | 4.1 | 106 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 20.000 | 17.305 | 13.5 | 109 | 0.00 |
| 90 | | Hexachlorobutadiene | 20.000 | 21.132 | -5.7 | 105 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 20.000 | 16.811 | 15.9 | 115 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 20.000 | 17.506 | 12.5 | 105 | 0.00 |

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