Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110920\
Data File : VN064515.D
Acq On : 9 Nov 2020 18:46
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Nov 10 04:02:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110920W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 09 13:16:36 2020
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 | 98 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 20.000 | 20.469 | -2.3 | 105 | 0.00 |
| 3 | M | Chloromethane | 20.000 | 20.390 | -2.0 | 108 | 0.00 |
| 4 | M | Vinyl Chloride | 20.000 | 20.506 | -2.5 | 110 | 0.00 |
| 5 | M | Bromomethane | 20.000 | 19.611 | 1.9 | 102 | 0.00 |
| 6 | M | Chloroethane | 20.000 | 20.406 | -2.0 | 107 | 0.00 |
| 7 | M | Trichlorofluoromethane | 20.000 | 20.817 | -4.1 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 20.000 | 20.237 | -1.2 | 106 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 20.000 | 19.810 | 1.0 | 101 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 20.000 | 19.767 | 1.2 | 107 | 0.00 |
| 11 | | Methyl Iodide | 20.000 | 19.690 | 1.5 | 112 | 0.00 |
| 12 | | Methyl Acetate | 20.000 | 20.949 | -4.7 | 111 | 0.00 |
| 13 | M | Acrolein | 100.000 | 129.734 | -29.7 | 158 | 0.00 |
| 14 | M | Acrylonitrile | 100.000 | 94.559 | 5.4 | 107 | 0.00 |
| 15 | M | Acetone | 100.000 | 80.885 | 19.1 | 74 | 0.00 |
| 16 | M | Carbon Disulfide | 20.000 | 19.688 | 1.6 | 105 | 0.00 |
| 17 | | Allyl chloride | 20.000 | 20.177 | -0.9 | 110 | 0.00 |
| 18 | M | Methylene Chloride | 20.000 | 20.338 | -1.7 | 108 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 20.000 | 19.951 | 0.2 | 109 | 0.00 |
| 20 | T | Diisopropyl ether | 20.000 | 19.724 | 1.4 | 109 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 20.000 | 20.410 | -2.1 | 110 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 20.000 | 20.369 | -1.8 | 115 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 100.000 | 93.710 | 6.3 | 99 | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 20.000 | 19.958 | 0.2 | 111 | 0.00 |
| 25 | M | Chloroform | 20.000 | 20.321 | -1.6 | 106 | 0.00 |
| 26 | | Cyclohexane | 20.000 | 19.239 | 3.8 | 106 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 30.000 | 30.942 | -3.1 | 99 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 30.000 | 30.000 | 0.0 | 100 | 0.00 |
| 29 | | 1,1-Dichloropropene | 20.000 | 19.389 | 3.1 | 105 | 0.00 |
| 30 | M | 2-Butanone | 100.000 | 85.294 | 14.7 | 89 | 0.00 |
| 31 | | 2,2-Dichloropropane | 20.000 | 19.015 | 4.9 | 102 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 20.000 | 19.979 | 0.1 | 108 | 0.00 |
| 33 | M | Carbon Tetrachloride | 20.000 | 20.008 | -0.0 | 108 | 0.00 |
| 34 | M | Benzene | 20.000 | 19.847 | 0.8 | 109 | 0.00 |
| 35 | | Methacrylonitrile | 20.000 | 18.843 | 5.8 | 115 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 20.000 | 19.836 | 0.8 | 105 | 0.00 |
| 37 | M | Trichloroethene | 20.000 | 19.825 | 0.9 | 111 | 0.00 |
| 38 | | Methylcyclohexane | 20.000 | 18.293 | 8.5 | 103 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 20.000 | 19.693 | 1.5 | 107 | 0.00 |
| 40 | | Dibromomethane | 20.000 | 20.293 | -1.5 | 109 | 0.00 |
| 41 | M | Bromodichloromethane | 20.000 | 19.557 | 2.2 | 105 | 0.00 |
| 42 | M | Vinyl Acetate | 100.000 | 95.461 | 4.5 | 107 | 0.00 |
| 43 | | Ethyl Acetate | 20.000 | 18.496 | 7.5 | 113 | 0.00 |
| 44 | | Isopropyl Acetate | 20.000 | 18.965 | 5.2 | 109 | 0.00 |
| 45 | T | 1,4-Dioxane | 400.000 | 352.692 | 11.8 | 95 | 0.00 |

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**LabSampleId :** VSTDCCC020

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Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 20.000 | 19.037 | 4.8 | 111 | 0.00 |
| 47 | | n-amyl Acetate | 20.000 | 17.645 | 11.8 | 105 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 20.000 | 19.149 | 4.3 | 108 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 20.000 | 19.196 | 4.0 | 108 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 20.000 | 19.947 | 0.3 | 111 | 0.00 |
| 51 | | Ethyl methacrylate | 20.000 | 18.117 | 9.4 | 107 | 0.00 |
| 52 | | 1,3-Dichloropropane | 20.000 | 19.657 | 1.7 | 111 | 0.00 |
| 53 | M | Dibromochloromethane | 20.000 | 19.040 | 4.8 | 106 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 20.000 | 19.707 | 1.5 | 112 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 100.000 | 86.039 | 14.0 | 95 | 0.00 |
| 56 | M | Bromoform | 20.000 | 18.919 | 5.4 | 106 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 30.000 | 30.000 | 0.0 | 98 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 100.000 | 96.762 | 3.2 | 104 | 0.00 |
| 59 | M | 2-Hexanone | 100.000 | 89.946 | 10.1 | 96 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 30.000 | 29.434 | 1.9 | 97 | 0.00 |
| 61 | M | Tetrachloroethene | 20.000 | 20.563 | -2.8 | 109 | 0.00 |
| 62 | M | Toluene | 20.000 | 19.512 | 2.4 | 105 | 0.00 |
| 63 | S | Toluene-d8 | 30.000 | 29.942 | 0.2 | 96 | 0.00 |
| 64 | M | Chlorobenzene | 20.000 | 19.703 | 1.5 | 107 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 20.000 | 20.027 | -0.1 | 108 | 0.00 |
| 66 | M | Ethyl Benzene | 20.000 | 19.206 | 4.0 | 108 | 0.00 |
| 67 | M | m/p-Xylenes | 40.000 | 39.211 | 2.0 | 108 | 0.00 |
| 68 | M | o-Xylene | 20.000 | 19.457 | 2.7 | 108 | 0.00 |
| 69 | M | Styrene | 20.000 | 19.306 | 3.5 | 110 | 0.00 |
| 70 | | Isopropylbenzene | 20.000 | 19.676 | 1.6 | 109 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 20.000 | 19.483 | 2.6 | 107 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 20.000 | 18.635 | 6.8 | 108 | 0.00 |
| 73 | | Bromobenzene | 20.000 | 19.225 | 3.9 | 109 | 0.00 |
| 74 | | n-propylbenzene | 20.000 | 19.566 | 2.2 | 109 | 0.00 |
| 75 | | 2-Chlorotoluene | 20.000 | 19.792 | 1.0 | 108 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 20.000 | 19.601 | 2.0 | 108 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 20.000 | 17.350 | 13.2 | 101 | 0.00 |
| 78 | | 4-Chlorotoluene | 20.000 | 19.052 | 4.7 | 105 | 0.00 |
| 79 | | tert-butylbenzene | 20.000 | 19.380 | 3.1 | 112 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 20.000 | 19.704 | 1.5 | 111 | 0.00 |
| 81 | | sec-Butylbenzene | 20.000 | 19.337 | 3.3 | 108 | 0.00 |
| 82 | | p-Isopropyltoluene | 20.000 | 18.919 | 5.4 | 107 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 20.000 | 19.320 | 3.4 | 110 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 20.000 | 19.199 | 4.0 | 111 | 0.00 |
| 85 | | n-Butylbenzene | 20.000 | 18.453 | 7.7 | 110 | 0.00 |
| 86 | T | Hexachloroethane | 20.000 | 18.835 | 5.8 | 105 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 20.000 | 19.870 | 0.6 | 113 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 20.000 | 18.110 | 9.5 | 103 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 20.000 | 16.874 | 15.6 | 107 | 0.00 |
| 90 | | Hexachlorobutadiene | 20.000 | 19.145 | 4.3 | 107 | 0.00 |

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Max. RRF Dev : 30% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 20.000 | 16.573 | 17.1 | 109 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 20.000 | 17.829 | 10.9 | 108 | 0.00 |

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