

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL121620\  
 Data File : VL036163.D  
 Acq On : 16 Dec 2020 10:47  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 17 06:09:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
 QLast Update : Mon Dec 07 16:56:49 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          | 10.000 | 10.000 | 0.0   | 91    | -0.04    |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.010  | 9.9   | 88    | -0.03    |
| 3    | Chlorodifluoromethane       | 10.000 | 11.157 | -11.6 | 105   | -0.03    |
| 4    | Chloromethane               | 10.000 | 10.545 | -5.4  | 100   | -0.03    |
| 5 T  | Vinyl Chloride              | 10.000 | 9.085  | 9.1   | 94    | -0.03    |
| 6 T  | Bromomethane                | 10.000 | 10.320 | -3.2  | 101   | -0.03    |
| 7    | Chloroethane                | 10.000 | 8.999  | 10.0  | 90    | -0.03    |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 10.559 | -5.6  | 99    | -0.03    |
| 9 T  | Propene                     | 10.000 | 10.139 | -1.4  | 102   | -0.03    |
| 10 T | Heptane                     | 10.000 | 10.400 | -4.0  | 100   | -0.05    |
| 11 T | Trichlorofluoromethane      | 10.000 | 11.044 | -10.4 | 104   | -0.04    |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 10.343 | -3.4  | 97    | -0.04    |
| 13   | Ethanol                     | 10.000 | 11.686 | -16.9 | 115   | -0.03    |
| 14 T | Bromoethene                 | 10.000 | 10.667 | -6.7  | 100   | -0.03    |
| 15 T | Acetone                     | 10.000 | 11.354 | -13.5 | 120   | -0.03    |
| 16 T | 1,3-Butadiene               | 10.000 | 10.158 | -1.6  | 97    | -0.03    |
| 17   | tert-Butyl alcohol          | 10.000 | 9.316  | 6.8   | 87    | -0.03    |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.922  | 0.8   | 92    | -0.04    |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.395  | 6.1   | 91    | -0.03    |
| 20 T | Methylene Chloride          | 10.000 | 7.795  | 22.1  | 94    | -0.04    |
| 21 T | Allyl Chloride              | 10.000 | 9.991  | 0.1   | 91    | -0.04    |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.534  | 4.7   | 89    | -0.04    |
| 23 T | Vinyl Acetate               | 10.000 | 10.142 | -1.4  | 95    | -0.04    |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.713  | 2.9   | 94    | -0.04    |
| 25 T | Ethyl Acetate               | 10.000 | 10.575 | -5.7  | 99    | -0.04    |
| 26 T | Hexane                      | 10.000 | 9.611  | 3.9   | 100   | -0.04    |
| 27 T | Carbon Disulfide            | 10.000 | 10.184 | -1.8  | 91    | -0.04    |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.474  | 5.3   | 90    | -0.04    |
| 29 T | Chloroform                  | 10.000 | 11.139 | -11.4 | 105   | -0.04    |
| 30 T | Cyclohexane                 | 10.000 | 10.477 | -4.8  | 102   | -0.04    |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.981 | -9.8  | 102   | -0.04    |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 10.646 | -6.5  | 103   | -0.05    |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 83    | -0.05    |
| 34 T | 2-Butanone                  | 10.000 | 11.165 | -11.6 | 103   | -0.04    |
| 35 T | Carbon Tetrachloride        | 10.000 | 12.084 | -20.8 | 99    | -0.05    |
| 36 T | Benzene                     | 10.000 | 11.572 | -15.7 | 101   | -0.05    |
| 37 T | 1,2-Dichloroethane          | 10.000 | 12.911 | -29.1 | 110   | -0.05    |
| 38 T | Trichloroethene             | 10.000 | 9.407  | 5.9   | 88    | -0.05    |
| 39 T | 1,2-Dichloropropane         | 10.000 | 11.841 | -18.4 | 100   | -0.05    |
| 40 T | 1,4-Dioxane                 | 10.000 | 11.784 | -17.8 | 105   | -0.05    |
| 41 T | Tetrahydrofuran             | 10.000 | 11.366 | -13.7 | 101   | -0.04    |
| 42 T | Bromodichloromethane        | 10.000 | 12.519 | -25.2 | 104   | -0.05    |
| 43   | Methyl Methacrylate         | 10.000 | 11.792 | -17.9 | 99    | -0.05    |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 11.303 | -13.0 | 100   | -0.05    |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 12.926 | -29.3 | 101   | -0.05    |

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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) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 12.380 | -23.8  | 102   | -0.05    |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 11.648 | -16.5  | 102   | -0.05    |
| 48 T | Dibromochloromethane      | 10.000 | 12.246 | -22.5  | 96    | -0.05    |
| 49 T | Bromoform                 | 10.000 | 12.821 | -28.2  | 97    | -0.06    |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 11.911 | -19.1  | 103   | -0.05    |
| 51 T | 2-Hexanone                | 10.000 | 12.420 | -24.2  | 108   | -0.05    |
| 52 T | Tetrachloroethene         | 10.000 | 9.484  | 5.2    | 91    | -0.05    |
| 53 T | Toluene                   | 10.000 | 11.458 | -14.6  | 99    | -0.05    |
| 54 T | 1,2-Dibromoethane         | 10.000 | 11.511 | -15.1  | 100   | -0.05    |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 85    | -0.05    |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 11.244 | -12.4  | 97    | -0.05    |
| 57 T | Chlorobenzene             | 10.000 | 10.788 | -7.9   | 97    | -0.05    |
| 58 T | Ethyl Benzene             | 10.000 | 11.390 | -13.9  | 103   | -0.05    |
| 59 T | m/p-Xylene                | 20.000 | 23.075 | -15.4  | 105   | -0.05    |
| 60 T | o-Xylene                  | 10.000 | 11.359 | -13.6  | 105   | -0.05    |
| 61 T | Styrene                   | 10.000 | 11.945 | -19.5  | 103   | -0.05    |
| 62   | Isopropylbenzene          | 10.000 | 11.034 | -10.3  | 102   | -0.05    |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 11.676 | -16.8  | 112   | -0.05    |
| 64   | n-propylbenzene           | 10.000 | 10.959 | -9.6   | 98    | -0.05    |
| 65   | tert-Butylbenzene         | 10.000 | 11.080 | -10.8  | 103   | -0.05    |
| 66 T | Benzyl Chloride           | 10.000 | 15.277 | -52.8# | 107   | -0.05    |
| 67   | sec-Butylbenzene          | 10.000 | 11.543 | -15.4  | 108   | -0.05    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 11.260 | -12.6  | 95    | -0.05    |
| 69   | p-Isopropyltoluene        | 10.000 | 11.404 | -14.0  | 104   | -0.05    |
| 70   | n-Butylbenzene            | 10.000 | 12.857 | -28.6  | 117   | -0.05    |
| 71   | 2-Chlorotoluene           | 10.000 | 11.925 | -19.3  | 110   | -0.05    |
| 72 T | 4-Ethyltoluene            | 10.000 | 11.704 | -17.0  | 106   | -0.05    |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 11.560 | -15.6  | 106   | -0.05    |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 11.638 | -16.4  | 108   | -0.05    |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 11.591 | -15.9  | 105   | -0.05    |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.961 | -9.6   | 100   | -0.06    |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 11.572 | -15.7  | 107   | -0.05    |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.916  | 10.8   | 84    | -0.05    |
| 79 T | Naphthalene               | 10.000 | 11.477 | -14.8  | 86    | -0.06    |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 19.527 | -95.3# | 80    | -0.04    |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.951  | 0.5    | 80    | -0.06    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0