

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101022\  
 Data File : VL039697.D  
 Acq On : 10 Oct 2022 15:02  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 10 15:37:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Sep 19 14:26:28 2022  
 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   | 93    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 8.149  | 18.5  | 92    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.117  | 8.8   | 97    | 0.00     |
| 4    | Chloromethane               | 10.000 | 8.094  | 19.1  | 84    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.264  | 7.4   | 92    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.747  | 2.5   | 99    | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.859  | 11.4  | 86    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.154  | 8.5   | 93    | 0.00     |
| 9 T  | Propene                     | 10.000 | 9.217  | 7.8   | 94    | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.915  | 0.9   | 95    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.216  | 7.8   | 95    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.171  | 8.3   | 97    | 0.00     |
| 13   | Ethanol                     | 10.000 | 8.550  | 14.5  | 96    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.513  | 4.9   | 94    | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.811  | 11.9  | 94    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.792  | 2.1   | 95    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 9.444  | 5.6   | 87    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.226  | 7.7   | 93    | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.531  | 14.7  | 82    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.506  | 24.9  | 97    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 8.918  | 10.8  | 90    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.177  | 8.2   | 89    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 6.246  | 37.5# | 63    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.413  | 5.9   | 95    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 10.258 | -2.6  | 106   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.019  | 9.8   | 95    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.468  | 5.3   | 85    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.147  | 8.5   | 91    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 8.890  | 11.1  | 91    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.708  | 2.9   | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.229  | 7.7   | 89    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.757  | 2.4   | 92    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 93    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 8.689  | 13.1  | 94    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.941  | 0.6   | 94    | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.509  | 4.9   | 93    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.141  | 8.6   | 91    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 7.930  | 20.7  | 74    | -0.01    |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.224  | 7.8   | 91    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.739  | 12.6  | 98    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.950  | 0.5   | 91    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.707  | 2.9   | 94    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.569 | -5.7  | 96    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.375  | 6.3   | 94    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 8.595  | 14.0  | 68    | -0.01    |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 9.228  | 7.7   | 77    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.319  | 6.8   | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 10.247 | -2.5  | 92    | 0.00     |

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 ALS Vial : 1 Sample Multiplier: 1

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 LabSampleId :  
 VSTDCCC010

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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) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 10.541 | -5.4   | 93    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.960  | 0.4    | 93    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 10.158 | -1.6   | 89    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.385  | 6.2    | 94    | -0.01    |
| 53 T | Toluene                   | 10.000 | 10.006 | -0.1   | 92    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 11.205 | -12.1  | 102   | -0.01    |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 99    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.260  | 7.4    | 99    | -0.01    |
| 57 T | Chlorobenzene             | 10.000 | 8.448  | 15.5   | 92    | -0.01    |
| 58 T | Ethyl Benzene             | 10.000 | 9.577  | 4.2    | 94    | -0.01    |
| 59 T | m/p-Xylene                | 20.000 | 18.017 | 9.9    | 94    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 9.146  | 8.5    | 94    | -0.01    |
| 61 T | Styrene                   | 10.000 | 9.808  | 1.9    | 90    | -0.02    |
| 62   | Isopropylbenzene          | 10.000 | 9.439  | 5.6    | 101   | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 14.041 | -40.4# | 152   | -0.01    |
| 64   | n-propylbenzene           | 10.000 | 9.527  | 4.7    | 100   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.514  | 4.9    | 102   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 6.394  | 36.1#  | 60    | -0.02    |
| 67   | sec-Butylbenzene          | 10.000 | 9.567  | 4.3    | 103   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.331  | 6.7    | 91    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.801  | 2.0    | 104   | -0.01    |
| 70   | n-Butylbenzene            | 10.000 | 10.029 | -0.3   | 106   | -0.01    |
| 71   | 2-Chlorotoluene           | 10.000 | 9.637  | 3.6    | 101   | -0.01    |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.615  | 3.8    | 96    | -0.01    |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.548  | 4.5    | 99    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.146  | 8.5    | 98    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.187  | 8.1    | 99    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 8.834  | 11.7   | 100   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.367  | 6.3    | 102   | -0.01    |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 9.060  | 9.4    | 111   | -0.02    |
| 79 T | Naphthalene               | 10.000 | 11.463 | -14.6  | 103   | -0.01    |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 6.521  | 34.8#  | 64    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.983  | 0.2    | 105   | -0.02    |

(#) = Out of Range

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