

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL120122\  
 Data File : VL039936.D  
 Acq On : 1 Dec 2022 9:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 02 05:22:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111822AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Nov 22 03:45:31 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                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 79    | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 1.432 | 1.719  | -20.0 | 128   | 0.01     |
| 3    | Chlorodifluoromethane       | 1.380 | 1.208  | 12.5  | 74    | 0.01     |
| 4    | Chloromethane               | 0.882 | 0.766  | 13.2  | 70    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.689 | 0.668  | 3.0   | 71    | 0.01     |
| 6 T  | Bromomethane                | 0.235 | 0.224  | 4.7   | 74    | 0.01     |
| 7    | Chloroethane                | 0.272 | 0.237  | 12.9  | 70    | 0.01     |
| 8 T  | Dichlorotetrafluoroethane   | 1.635 | 1.571  | 3.9   | 81    | 0.00     |
| 9 T  | Propene                     | 0.650 | 0.556  | 14.5  | 69    | 0.00     |
| 10 T | Heptane                     | 1.568 | 1.383  | 11.8  | 71    | 0.02     |
| 11 T | Trichlorofluoromethane      | 1.747 | 1.584  | 9.3   | 75    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.322 | 1.222  | 7.6   | 76    | 0.02     |
| 13   | Ethanol                     | 0.050 | 0.040# | 20.0  | 73    | 0.01     |
| 14 T | Bromoethene                 | 0.516 | 0.498  | 3.5   | 75    | 0.02     |
| 15 T | Acetone                     | 1.326 | 1.162  | 12.4  | 73    | 0.01     |
| 16 T | 1,3-Butadiene               | 0.661 | 0.594  | 10.1  | 67    | 0.01     |
| 17   | tert-Butyl alcohol          | 1.525 | 1.332  | 12.7  | 67    | 0.01     |
| 18 T | 1,1-Dichloroethene          | 0.603 | 0.550  | 8.8   | 74    | 0.02     |
| 19 T | Isopropyl Alcohol           | 0.718 | 0.650  | 9.5   | 69    | 0.01     |
| 20 T | Methylene Chloride          | 0.643 | 0.475  | 26.1  | 75    | 0.02     |
| 21 T | Allyl Chloride              | 0.920 | 0.848  | 7.8   | 71    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 0.613 | 0.574  | 6.4   | 74    | 0.02     |
| 23 T | Vinyl Acetate               | 0.545 | 0.518  | 5.0   | 74    | 0.01     |
| 24 T | 1,1-Dichloroethane          | 1.314 | 1.183  | 10.0  | 73    | 0.01     |
| 25 T | Ethyl Acetate               | 2.435 | 2.425  | 0.4   | 80    | 0.02     |
| 26 T | Hexane                      | 1.064 | 1.057  | 0.7   | 81    | 0.02     |
| 27 T | Carbon Disulfide            | 1.343 | 1.417  | -5.5  | 74    | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 1.332 | 1.183  | 11.2  | 71    | 0.02     |
| 29 T | Chloroform                  | 1.414 | 1.647  | -16.5 | 88    | 0.02     |
| 30 T | Cyclohexane                 | 1.044 | 0.929  | 11.0  | 73    | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 0.983 | 0.921  | 6.3   | 72    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 1.766 | 1.717  | 2.8   | 78    | 0.02     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 77    | 0.02     |
| 34 T | 2-Butanone                  | 0.478 | 0.484  | -1.3  | 72    | 0.02     |
| 35 T | Carbon Tetrachloride        | 0.568 | 0.632  | -11.3 | 78    | 0.02     |
| 36 T | Benzene                     | 0.850 | 0.821  | 3.4   | 73    | 0.02     |
| 37 T | 1,2-Dichloroethane          | 0.466 | 0.466  | 0.0   | 76    | 0.02     |
| 38 T | Trichloroethene             | 0.475 | 0.469  | 1.3   | 76    | 0.02     |
| 39 T | 1,2-Dichloropropane         | 0.331 | 0.313  | 5.4   | 71    | 0.02     |
| 40 T | 1,4-Dioxane                 | 0.132 | 0.134  | -1.5  | 78    | 0.02     |
| 41 T | Tetrahydrofuran             | 0.330 | 0.330  | 0.0   | 71    | 0.02     |
| 42 T | Bromodichloromethane        | 0.632 | 0.682  | -7.9  | 76    | 0.02     |
| 43   | Methyl Methacrylate         | 0.333 | 0.337  | -1.2  | 72    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 1.419 | 1.342  | 5.4   | 73    | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 0.308 | 0.343  | -11.4 | 70    | 0.02     |
| 46 T | cis-1,3-Dichloropropene     | 0.427 | 0.445  | -4.2  | 72    | 0.02     |
| 47 T | 1,1,2-Trichloroethane       | 0.340 | 0.338  | 0.6   | 76    | 0.02     |
| 48 T | Dibromochloromethane        | 0.499 | 0.584  | -17.0 | 78    | 0.02     |

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 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 02 05:22:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111822AIR.M  
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 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                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.404 | 0.478 | -18.3 | 74    | 0.02     |
| 50 T | 4-Methyl-2-Pentanone      | 0.857 | 0.835 | 2.6   | 71    | 0.02     |
| 51 T | 2-Hexanone                | 0.665 | 0.665 | 0.0   | 71    | 0.02     |
| 52 T | Tetrachloroethene         | 0.318 | 0.293 | 7.9   | 72    | 0.02     |
| 53 T | Toluene                   | 0.968 | 0.950 | 1.9   | 74    | 0.02     |
| 54 T | 1,2-Dibromoethane         | 0.363 | 0.395 | -8.8  | 77    | 0.02     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 74    | 0.02     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.409 | 0.439 | -7.3  | 77    | 0.02     |
| 57 T | Chlorobenzene             | 0.765 | 0.782 | -2.2  | 77    | 0.02     |
| 58 T | Ethyl Benzene             | 1.357 | 1.358 | -0.1  | 75    | 0.02     |
| 59 T | m/p-Xylene                | 1.135 | 1.145 | -0.9  | 77    | 0.02     |
| 60 T | o-Xylene                  | 1.083 | 1.085 | -0.2  | 76    | 0.02     |
| 61 T | Styrene                   | 0.646 | 0.682 | -5.6  | 75    | 0.03     |
| 62   | Isopropylbenzene          | 1.562 | 1.574 | -0.8  | 77    | 0.02     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.362 | 0.376 | -3.9  | 76    | 0.02     |
| 64   | n-propylbenzene           | 0.408 | 0.416 | -2.0  | 75    | 0.03     |
| 65   | tert-Butylbenzene         | 1.366 | 1.366 | 0.0   | 77    | 0.02     |
| 66 T | Benzyl Chloride           | 0.117 | 0.129 | -10.3 | 62    | 0.02     |
| 67   | sec-Butylbenzene          | 1.878 | 1.893 | -0.8  | 78    | 0.02     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.764 | 0.752 | 1.6   | 74    | 0.02     |
| 69   | p-Isopropyltoluene        | 1.547 | 1.559 | -0.8  | 77    | 0.02     |
| 70   | n-Butylbenzene            | 1.534 | 1.560 | -1.7  | 77    | 0.02     |
| 71   | 2-Chlorotoluene           | 1.184 | 1.194 | -0.8  | 76    | 0.02     |
| 72 T | 4-Ethyltoluene            | 1.217 | 1.274 | -4.7  | 76    | 0.02     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.114 | 1.133 | -1.7  | 77    | 0.02     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.180 | 1.203 | -1.9  | 77    | 0.02     |
| 75 T | 1,3-Dichlorobenzene       | 0.664 | 0.680 | -2.4  | 74    | 0.02     |
| 76 T | 1,4-Dichlorobenzene       | 0.658 | 0.662 | -0.6  | 73    | 0.03     |
| 77 T | 1,2-Dichlorobenzene       | 0.640 | 0.653 | -2.0  | 76    | 0.02     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.444 | 0.384 | 13.5  | 71    | 0.02     |
| 79 T | Naphthalene               | 0.706 | 0.771 | -9.2  | 74    | 0.02     |
| 80 T | Naphthalene,2-methyl-     | 0.199 | 0.221 | -11.1 | 81    | 0.02     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.436 | 0.421 | 3.4   | 71    | 0.02     |

(#) = Out of Range

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