

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\  
 Data File : VL033962.D  
 Acq On : 25 Jun 2019 8:31  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jun 25 09:18:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 07 08:53:27 2019  
 QLast Update : Fri Jun 07 08:53:27 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.623 | 1.505 | 7.3    | 100   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.177 | 1.145 | 2.7    | 93    | 0.00     |
| 4    | Chloromethane               | 0.671 | 0.651 | 3.0    | 92    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.623 | 0.675 | -8.3   | 96    | 0.00     |
| 6 T  | Bromomethane                | 0.414 | 0.433 | -4.6   | 95    | 0.00     |
| 7    | Chloroethane                | 0.246 | 0.251 | -2.0   | 94    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.734 | 1.779 | -2.6   | 95    | 0.00     |
| 9 T  | Propene                     | 0.440 | 0.466 | -5.9   | 94    | 0.00     |
| 10 T | Heptane                     | 1.113 | 1.281 | -15.1  | 93    | -0.01    |
| 11 T | Trichlorofluoromethane      | 2.094 | 2.243 | -7.1   | 99    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.415 | 1.511 | -6.8   | 98    | 0.00     |
| 13   | Ethanol                     | 0.143 | 0.110 | 23.1   | 91    | 0.00     |
| 14 T | Bromoethene                 | 0.527 | 0.581 | -10.2  | 95    | 0.00     |
| 15 T | Acetone                     | 1.458 | 1.422 | 2.5    | 104   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.555 | 0.594 | -7.0   | 94    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.140 | 1.371 | -20.3  | 95    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.598 | 0.648 | -8.4   | 96    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.833 | 0.926 | -11.2  | 89    | 0.00     |
| 20 T | Methylene Chloride          | 0.569 | 0.561 | 1.4    | 99    | 0.00     |
| 21 T | Allyl Chloride              | 0.828 | 0.952 | -15.0  | 99    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.630 | 0.679 | -7.8   | 96    | 0.00     |
| 23 T | Vinyl Acetate               | 1.695 | 1.896 | -11.9  | 94    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.319 | 1.370 | -3.9   | 94    | 0.00     |
| 25 T | Ethyl Acetate               | 2.221 | 2.337 | -5.2   | 94    | 0.00     |
| 26 T | Hexane                      | 1.011 | 1.034 | -2.3   | 95    | 0.00     |
| 27 T | Carbon Disulfide            | 1.405 | 1.634 | -16.3  | 96    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.529 | 1.880 | -23.0  | 97    | 0.00     |
| 29 T | Chloroform                  | 1.732 | 1.810 | -4.5   | 95    | 0.00     |
| 30 T | Cyclohexane                 | 0.715 | 0.841 | -17.6  | 92    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.887 | 1.030 | -16.1  | 93    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.671 | 1.901 | -13.8  | 94    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 34 T | 2-Butanone                  | 0.564 | 0.635 | -12.6  | 95    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.773 | 0.857 | -10.9  | 94    | 0.00     |
| 36 T | Benzene                     | 0.764 | 0.870 | -13.9  | 93    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.565 | 0.584 | -3.4   | 91    | 0.00     |
| 38 T | Trichloroethene             | 0.297 | 0.379 | -27.6  | 93    | -0.01    |
| 39 T | 1,2-Dichloropropane         | 0.295 | 0.327 | -10.8  | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.120 | 0.129 | -7.5   | 83    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.286 | 0.336 | -17.5  | 91    | 0.00     |
| 42 T | Bromodichloromethane        | 0.755 | 0.825 | -9.3   | 93    | 0.00     |
| 43   | Methyl Methacrylate         | 0.286 | 0.350 | -22.4  | 92    | -0.01    |
| 44 T | 2,2,4-Trimethylpentane      | 1.358 | 1.502 | -10.6  | 93    | -0.01    |
| 45 T | t-1,3-Dichloropropene       | 0.375 | 0.490 | -30.7# | 92    | -0.02    |

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|      | Compound                  | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.429 | 0.558 | -30.1# | 93    | -0.01    |
| 47 T | 1,1,2-Trichloroethane     | 0.351 | 0.381 | -8.5   | 92    | 0.00     |
| 48 T | Dibromochloromethane      | 0.632 | 0.716 | -13.3  | 91    | 0.00     |
| 49 T | Bromoform                 | 0.558 | 0.660 | -18.3  | 92    | -0.01    |
| 50 T | 4-Methyl-2-Pentanone      | 0.841 | 0.970 | -15.3  | 93    | 0.00     |
| 51 T | 2-Hexanone                | 0.657 | 0.783 | -19.2  | 90    | 0.00     |
| 52 T | Tetrachloroethene         | 0.269 | 0.349 | -29.7  | 92    | -0.02    |
| 53 T | Toluene                   | 0.845 | 1.044 | -23.6  | 91    | -0.01    |
| 54 T | 1,2-Dibromoethane         | 0.530 | 0.601 | -13.4  | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 92    | -0.01    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.437 | 0.454 | -3.9   | 94    | -0.01    |
| 57 T | Chlorobenzene             | 0.749 | 0.771 | -2.9   | 92    | -0.01    |
| 58 T | Ethyl Benzene             | 1.127 | 1.340 | -18.9  | 91    | -0.01    |
| 59 T | m/p-Xylene                | 1.025 | 1.152 | -12.4  | 92    | -0.01    |
| 60 T | o-Xylene                  | 1.059 | 1.156 | -9.2   | 88    | 0.00     |
| 61 T | Styrene                   | 0.685 | 0.839 | -22.5  | 89    | -0.01    |
| 62   | Isopropylbenzene          | 1.427 | 1.560 | -9.3   | 89    | -0.01    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.797 | 0.821 | -3.0   | 89    | 0.00     |
| 64   | n-propylbenzene           | 0.365 | 0.407 | -11.5  | 90    | -0.01    |
| 65   | tert-Butylbenzene         | 1.320 | 1.498 | -13.5  | 92    | 0.00     |
| 66 T | Benzyl Chloride           | 0.669 | 0.832 | -24.4  | 91    | -0.02    |
| 67   | sec-Butylbenzene          | 1.852 | 2.040 | -10.2  | 90    | -0.01    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.821 | 0.786 | 4.3    | 90    | -0.01    |
| 69   | p-Isopropyltoluene        | 1.541 | 1.727 | -12.1  | 89    | 0.00     |
| 70   | n-Butylbenzene            | 1.688 | 1.771 | -4.9   | 86    | -0.01    |
| 71   | 2-Chlorotoluene           | 1.051 | 1.190 | -13.2  | 90    | -0.01    |
| 72 T | 4-Ethyltoluene            | 1.205 | 1.404 | -16.5  | 90    | -0.01    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.187 | 1.340 | -12.9  | 90    | -0.01    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.368 | 1.447 | -5.8   | 91    | -0.01    |
| 75 T | 1,3-Dichlorobenzene       | 0.856 | 0.839 | 2.0    | 89    | -0.01    |
| 76 T | 1,4-Dichlorobenzene       | 0.786 | 0.821 | -4.5   | 89    | -0.01    |
| 77 T | 1,2-Dichlorobenzene       | 0.790 | 0.793 | -0.4   | 87    | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.617 | 0.550 | 10.9   | 92    | -0.01    |
| 79 T | Naphthalene               | 1.093 | 1.021 | 6.6    | 73    | -0.01    |
| 80 T | Naphthalene,2-methyl-     | 0.436 | 0.370 | 15.1   | 74    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.690 | 0.607 | 12.0   | 73    | -0.02    |

(#) = Out of Range

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