

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL081618\  
 Data File : VL032378.D  
 Acq On : 16 Aug 2018 14:23  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Aug 28 13:42:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 28 13:07:12 2018  
 QLast Update : Tue Aug 28 13:07:12 2018  
 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   | 61    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.019 | 0.989 | 2.9   | 77    | 0.00     |
| 3    | Chlorodifluoromethane       | 0.926 | 0.886 | 4.3   | 63    | 0.00     |
| 4    | Chloromethane               | 0.551 | 0.501 | 9.1   | 59    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.526 | 0.501 | 4.8   | 63    | 0.00     |
| 6 T  | Bromomethane                | 0.282 | 0.297 | -5.3  | 67    | 0.00     |
| 7    | Chloroethane                | 0.184 | 0.185 | -0.5  | 66    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.130 | 1.077 | 4.7   | 65    | 0.00     |
| 9 T  | Propene                     | 0.396 | 0.393 | 0.8   | 58    | 0.00     |
| 10 T | Heptane                     | 1.194 | 1.283 | -7.5  | 65    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.118 | 1.102 | 1.4   | 68    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.753 | 0.720 | 4.4   | 64    | 0.00     |
| 13   | Ethanol                     | 0.102 | 0.119 | -16.7 | 73    | 0.00     |
| 14 T | Bromoethene                 | 0.326 | 0.337 | -3.4  | 66    | 0.00     |
| 15 T | Acetone                     | 0.950 | 0.855 | 10.0  | 67    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.392 | 0.418 | -6.6  | 70    | 0.00     |
| 17   | tert-Butyl alcohol          | 0.159 | 0.178 | -11.9 | 75    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.351 | 0.350 | 0.3   | 64    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.640 | 0.697 | -8.9  | 70    | 0.00     |
| 20 T | Methylene Chloride          | 0.359 | 0.313 | 12.8  | 65    | 0.00     |
| 21 T | Allyl Chloride              | 0.600 | 0.635 | -5.8  | 65    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.354 | 0.359 | -1.4  | 60    | 0.00     |
| 23 T | Vinyl Acetate               | 1.641 | 1.690 | -3.0  | 60    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.185 | 1.163 | 1.9   | 60    | 0.00     |
| 25 T | Ethyl Acetate               | 2.036 | 2.023 | 0.6   | 62    | 0.00     |
| 26 T | Hexane                      | 0.908 | 0.925 | -1.9  | 62    | 0.00     |
| 27 T | Carbon Disulfide            | 0.847 | 0.914 | -7.9  | 63    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.205 | 1.395 | -15.8 | 64    | 0.00     |
| 29 T | Chloroform                  | 1.330 | 1.499 | -12.7 | 70    | 0.00     |
| 30 T | Cyclohexane                 | 0.691 | 0.780 | -12.9 | 66    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.888 | 0.865 | 2.6   | 57    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.295 | 1.461 | -12.8 | 71    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 68    | 0.00     |
| 34 T | 2-Butanone                  | 0.681 | 0.561 | 17.6  | 55    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.590 | 0.656 | -11.2 | 71    | 0.00     |
| 36 T | Benzene                     | 0.848 | 0.898 | -5.9  | 67    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.514 | 0.488 | 5.1   | 65    | 0.00     |
| 38 T | Trichloroethene             | 0.297 | 0.306 | -3.0  | 68    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.354 | 0.346 | 2.3   | 63    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.108 | 0.120 | -11.1 | 65    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.365 | 0.390 | -6.8  | 66    | 0.00     |
| 42 T | Bromodichloromethane        | 0.673 | 0.728 | -8.2  | 70    | 0.00     |
| 43   | Methyl Methacrylate         | 0.338 | 0.370 | -9.5  | 66    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.529 | 1.555 | -1.7  | 67    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.427 | 0.531 | -24.4 | 73    | 0.00     |

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

|      | Compound                  | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.512 | 0.616 | -20.3  | 75    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.390 | 0.383 | 1.8    | 67    | 0.00     |
| 48 T | Dibromochloromethane      | 0.521 | 0.576 | -10.6  | 69    | 0.00     |
| 49 T | Bromoform                 | 0.433 | 0.460 | -6.2   | 67    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.983 | 1.014 | -3.2   | 71    | 0.00     |
| 51 T | 2-Hexanone                | 0.690 | 0.832 | -20.6  | 65    | 0.00     |
| 52 T | Tetrachloroethene         | 0.250 | 0.264 | -5.6   | 67    | 0.00     |
| 53 T | Toluene                   | 0.929 | 1.082 | -16.5  | 68    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.501 | 0.535 | -6.8   | 69    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 71    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.414 | 0.381 | 8.0    | 68    | 0.00     |
| 57 T | Chlorobenzene             | 0.753 | 0.674 | 10.5   | 67    | 0.00     |
| 58 T | Ethyl Benzene             | 1.203 | 1.262 | -4.9   | 68    | 0.00     |
| 59 T | m/p-Xylene                | 1.022 | 1.012 | 1.0    | 68    | 0.00     |
| 60 T | o-Xylene                  | 1.005 | 0.989 | 1.6    | 68    | 0.00     |
| 61 T | Styrene                   | 0.702 | 0.769 | -9.5   | 67    | 0.00     |
| 62   | Isopropylbenzene          | 1.430 | 1.405 | 1.7    | 68    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.845 | 0.724 | 14.3   | 67    | 0.00     |
| 64   | n-propylbenzene           | 0.370 | 0.362 | 2.2    | 67    | 0.00     |
| 65   | tert-Butylbenzene         | 1.221 | 1.169 | 4.3    | 68    | 0.00     |
| 66 T | Benzyl Chloride           | 0.723 | 0.790 | -9.3   | 65    | 0.00     |
| 67   | sec-Butylbenzene          | 1.816 | 1.759 | 3.1    | 68    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.763 | 0.752 | 1.4    | 69    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.390 | 1.398 | -0.6   | 69    | 0.00     |
| 70   | n-Butylbenzene            | 1.524 | 1.537 | -0.9   | 68    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.107 | 1.132 | -2.3   | 69    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.120 | 1.174 | -4.8   | 68    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.078 | 1.117 | -3.6   | 68    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.147 | 1.102 | 3.9    | 68    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.689 | 0.615 | 10.7   | 66    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.653 | 0.618 | 5.4    | 66    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.658 | 0.605 | 8.1    | 66    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.221 | 0.383 | -73.3# | 138   | 0.00     |
| 79 T | Naphthalene               | 0.837 | 1.081 | -29.2  | 68    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.229 | 0.455 | -98.7# | 66    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.443 | 0.508 | -14.7  | 66    | 0.00     |

(#) = Out of Range

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