

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL100318\  
 Data File : VL032597.D  
 Acq On : 4 Oct 2018 12:01  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 04 12:25:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 01 06:49:26 2018  
 QLast Update : Mon Oct 01 06:49:26 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                    | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0    | 80    | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 8.092  | 19.1   | 73    | -0.02    |
| 3    | Chlorodifluoromethane       | 10.000 | 13.091 | -30.9# | 115   | -0.02    |
| 4    | Chloromethane               | 10.000 | 9.297  | 7.0    | 81    | -0.02    |
| 5 T  | Vinyl Chloride              | 10.000 | 9.155  | 8.5    | 83    | -0.02    |
| 6 T  | Bromomethane                | 10.000 | 10.382 | -3.8   | 84    | -0.02    |
| 7    | Chloroethane                | 10.000 | 9.644  | 3.6    | 84    | -0.02    |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 10.410 | -4.1   | 93    | -0.02    |
| 9 T  | Propene                     | 10.000 | 8.978  | 10.2   | 72    | -0.02    |
| 10 T | Heptane                     | 10.000 | 10.382 | -3.8   | 78    | -0.02    |
| 11 T | Trichlorofluoromethane      | 10.000 | 10.959 | -9.6   | 101   | -0.02    |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.496  | 5.0    | 85    | -0.02    |
| 13   | Ethanol                     | 10.000 | 9.828  | 1.7    | 92    | -0.02    |
| 14 T | Bromoethene                 | 10.000 | 11.014 | -10.1  | 91    | -0.02    |
| 15 T | Acetone                     | 10.000 | 11.791 | -17.9  | 110   | -0.02    |
| 16 T | 1,3-Butadiene               | 10.000 | 9.588  | 4.1    | 78    | -0.02    |
| 17   | tert-Butyl alcohol          | 10.000 | 8.924  | 10.8   | 85    | -0.03    |
| 18 T | 1,1-Dichloroethene          | 10.000 | 8.885  | 11.2   | 75    | -0.02    |
| 19 T | Isopropyl Alcohol           | 10.000 | 10.875 | -8.8   | 92    | -0.02    |
| 20 T | Methylene Chloride          | 10.000 | 7.858  | 21.4   | 76    | -0.02    |
| 21 T | Allyl Chloride              | 10.000 | 9.066  | 9.3    | 75    | -0.02    |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.066 | -0.7   | 85    | -0.02    |
| 23 T | Vinyl Acetate               | 10.000 | 10.150 | -1.5   | 76    | -0.02    |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.925  | 0.7    | 85    | -0.02    |
| 25 T | Ethyl Acetate               | 10.000 | 10.069 | -0.7   | 84    | -0.02    |
| 26 T | Hexane                      | 10.000 | 10.526 | -5.3   | 87    | -0.02    |
| 27 T | Carbon Disulfide            | 10.000 | 10.561 | -5.6   | 87    | -0.02    |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 11.231 | -12.3  | 86    | -0.02    |
| 29 T | Chloroform                  | 10.000 | 10.872 | -8.7   | 96    | -0.02    |
| 30 T | Cyclohexane                 | 10.000 | 11.110 | -11.1  | 83    | -0.03    |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.561 | -5.6   | 81    | -0.03    |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 10.329 | -3.3   | 90    | -0.03    |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0    | 81    | -0.03    |
| 34 T | 2-Butanone                  | 10.000 | 8.563  | 14.4   | 69    | -0.02    |
| 35 T | Carbon Tetrachloride        | 10.000 | 10.410 | -4.1   | 93    | -0.02    |
| 36 T | Benzene                     | 10.000 | 10.874 | -8.7   | 87    | -0.02    |
| 37 T | 1,2-Dichloroethane          | 10.000 | 11.246 | -12.5  | 96    | -0.02    |
| 38 T | Trichloroethene             | 10.000 | 11.356 | -13.6  | 93    | -0.03    |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.670  | 3.3    | 78    | -0.03    |
| 40 T | 1,4-Dioxane                 | 10.000 | 11.460 | -14.6  | 93    | -0.03    |
| 41 T | Tetrahydrofuran             | 10.000 | 9.086  | 9.1    | 67    | -0.02    |
| 42 T | Bromodichloromethane        | 10.000 | 11.168 | -11.7  | 93    | -0.02    |
| 43   | Methyl Methacrylate         | 10.000 | 11.260 | -12.6  | 84    | -0.02    |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 10.513 | -5.1   | 86    | -0.02    |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.094 | -10.9  | 73    | -0.03    |

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|      | Compound                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 11.737 | -17.4  | 82    | -0.02    |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.225  | 7.8    | 78    | -0.02    |
| 48 T | Dibromochloromethane      | 10.000 | 11.160 | -11.6  | 90    | -0.03    |
| 49 T | Bromoform                 | 10.000 | 11.374 | -13.7  | 91    | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.030 | -0.3   | 78    | -0.02    |
| 51 T | 2-Hexanone                | 10.000 | 10.405 | -4.0   | 76    | -0.03    |
| 52 T | Tetrachloroethene         | 10.000 | 11.220 | -12.2  | 93    | -0.02    |
| 53 T | Toluene                   | 10.000 | 11.462 | -14.6  | 84    | -0.03    |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.922 | -9.2   | 87    | -0.03    |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 84    | -0.03    |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 10.574 | -5.7   | 98    | -0.02    |
| 57 T | Chlorobenzene             | 10.000 | 9.884  | 1.2    | 92    | -0.02    |
| 58 T | Ethyl Benzene             | 10.000 | 10.869 | -8.7   | 85    | -0.02    |
| 59 T | m/p-Xylene                | 20.000 | 20.524 | -2.6   | 87    | -0.03    |
| 60 T | o-Xylene                  | 10.000 | 10.395 | -3.9   | 89    | -0.03    |
| 61 T | Styrene                   | 10.000 | 11.256 | -12.6  | 83    | -0.03    |
| 62   | Isopropylbenzene          | 10.000 | 10.263 | -2.6   | 87    | -0.03    |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.847  | 11.5   | 88    | -0.03    |
| 64   | n-propylbenzene           | 10.000 | 10.275 | -2.8   | 86    | -0.03    |
| 65   | tert-Butylbenzene         | 10.000 | 10.178 | -1.8   | 89    | -0.02    |
| 66 T | Benzyl Chloride           | 10.000 | 10.752 | -7.5   | 84    | -0.03    |
| 67   | sec-Butylbenzene          | 10.000 | 10.137 | -1.4   | 89    | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.497  | 5.0    | 82    | -0.03    |
| 69   | p-Isopropyltoluene        | 10.000 | 10.426 | -4.3   | 88    | -0.03    |
| 70   | n-Butylbenzene            | 10.000 | 10.438 | -4.4   | 88    | -0.02    |
| 71   | 2-Chlorotoluene           | 10.000 | 10.596 | -6.0   | 87    | -0.03    |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.914 | -9.1   | 87    | -0.03    |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.744 | -7.4   | 87    | -0.03    |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 10.161 | -1.6   | 90    | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.164  | 8.4    | 88    | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 9.959  | 0.4    | 87    | -0.03    |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.688  | 3.1    | 89    | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 15.344 | -53.4# | 157   | -0.02    |
| 79 T | Naphthalene               | 10.000 | 11.639 | -16.4  | 79    | -0.03    |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 15.662 | -56.6# | 66    | -0.02    |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.896 | -9.0   | 80    | -0.03    |

(#) = Out of Range

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