

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL092718\  
 Data File : VL032549.D  
 Acq On : 27 Sep 2018 13:10  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Sep 28 02:22:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 25 05:17:15 2018  
 QLast Update : Tue Sep 25 05:17:15 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   | 94    | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 7.700  | 23.0  | 82    | -0.02    |
| 3    | Chlorodifluoromethane       | 10.000 | 9.181  | 8.2   | 95    | -0.01    |
| 4    | Chloromethane               | 10.000 | 9.006  | 9.9   | 93    | -0.01    |
| 5 T  | Vinyl Chloride              | 10.000 | 8.569  | 14.3  | 92    | -0.02    |
| 6 T  | Bromomethane                | 10.000 | 9.098  | 9.0   | 87    | -0.02    |
| 7    | Chloroethane                | 10.000 | 8.841  | 11.6  | 90    | -0.02    |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.220  | 7.8   | 97    | -0.02    |
| 9 T  | Propene                     | 10.000 | 9.481  | 5.2   | 90    | -0.01    |
| 10 T | Heptane                     | 10.000 | 10.369 | -3.7  | 92    | -0.02    |
| 11 T | Trichlorofluoromethane      | 10.000 | 8.895  | 11.1  | 96    | -0.02    |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.612  | 3.9   | 102   | -0.02    |
| 13   | Ethanol                     | 10.000 | 7.927  | 20.7  | 88    | -0.02    |
| 14 T | Bromoethene                 | 10.000 | 9.312  | 6.9   | 91    | -0.02    |
| 15 T | Acetone                     | 10.000 | 8.299  | 17.0  | 91    | -0.02    |
| 16 T | 1,3-Butadiene               | 10.000 | 9.816  | 1.8   | 94    | -0.02    |
| 17   | tert-Butyl alcohol          | 10.000 | 8.605  | 13.9  | 97    | -0.02    |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.666  | 3.3   | 96    | -0.02    |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.277  | 7.2   | 92    | -0.02    |
| 20 T | Methylene Chloride          | 10.000 | 8.505  | 14.9  | 97    | -0.02    |
| 21 T | Allyl Chloride              | 10.000 | 10.048 | -0.5  | 98    | -0.02    |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.109 | -1.1  | 101   | -0.02    |
| 23 T | Vinyl Acetate               | 10.000 | 10.271 | -2.7  | 90    | -0.02    |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.403  | 6.0   | 95    | -0.02    |
| 25 T | Ethyl Acetate               | 10.000 | 9.611  | 3.9   | 95    | -0.02    |
| 26 T | Hexane                      | 10.000 | 9.706  | 2.9   | 94    | -0.02    |
| 27 T | Carbon Disulfide            | 10.000 | 10.477 | -4.8  | 101   | -0.02    |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 10.456 | -4.6  | 94    | -0.02    |
| 29 T | Chloroform                  | 10.000 | 9.800  | 2.0   | 102   | -0.02    |
| 30 T | Cyclohexane                 | 10.000 | 10.386 | -3.9  | 92    | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.591 | -5.9  | 96    | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.243  | 7.6   | 95    | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 93    | -0.02    |
| 34 T | 2-Butanone                  | 10.000 | 9.820  | 1.8   | 90    | -0.02    |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.165  | 8.4   | 94    | -0.02    |
| 36 T | Benzene                     | 10.000 | 10.934 | -9.3  | 100   | -0.02    |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.613 | -6.1  | 104   | -0.02    |
| 38 T | Trichloroethene             | 10.000 | 10.334 | -3.3  | 97    | -0.02    |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.786  | 2.1   | 91    | -0.02    |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.947  | 0.5   | 93    | -0.03    |
| 41 T | Tetrahydrofuran             | 10.000 | 11.129 | -11.3 | 94    | -0.02    |
| 42 T | Bromodichloromethane        | 10.000 | 9.993  | 0.1   | 96    | -0.02    |
| 43   | Methyl Methacrylate         | 10.000 | 11.027 | -10.3 | 94    | -0.02    |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.948  | 0.5   | 93    | -0.02    |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.074 | -10.7 | 83    | -0.02    |

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 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

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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                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 10.995 | -9.9   | 88    | -0.02    |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.671  | 3.3    | 93    | -0.02    |
| 48 T | Dibromochloromethane      | 10.000 | 10.261 | -2.6   | 95    | -0.02    |
| 49 T | Bromoform                 | 10.000 | 10.295 | -2.9   | 95    | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.790  | 2.1    | 87    | -0.02    |
| 51 T | 2-Hexanone                | 10.000 | 10.961 | -9.6   | 91    | -0.02    |
| 52 T | Tetrachloroethene         | 10.000 | 9.821  | 1.8    | 93    | -0.02    |
| 53 T | Toluene                   | 10.000 | 11.143 | -11.4  | 93    | -0.02    |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.422 | -4.2   | 95    | -0.02    |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 100   | -0.02    |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 8.627  | 13.7   | 95    | -0.02    |
| 57 T | Chlorobenzene             | 10.000 | 8.450  | 15.5   | 93    | -0.02    |
| 58 T | Ethyl Benzene             | 10.000 | 10.099 | -1.0   | 94    | -0.02    |
| 59 T | m/p-Xylene                | 20.000 | 18.713 | 6.4    | 94    | -0.02    |
| 60 T | o-Xylene                  | 10.000 | 9.415  | 5.9    | 95    | -0.02    |
| 61 T | Styrene                   | 10.000 | 10.672 | -6.7   | 93    | -0.02    |
| 62   | Isopropylbenzene          | 10.000 | 9.344  | 6.6    | 94    | -0.03    |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 7.982  | 20.2   | 94    | -0.02    |
| 64   | n-propylbenzene           | 10.000 | 9.321  | 6.8    | 93    | -0.02    |
| 65   | tert-Butylbenzene         | 10.000 | 9.106  | 8.9    | 94    | -0.02    |
| 66 T | Benzyl Chloride           | 10.000 | 10.065 | -0.6   | 93    | -0.02    |
| 67   | sec-Butylbenzene          | 10.000 | 9.120  | 8.8    | 95    | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.240  | 7.6    | 94    | -0.02    |
| 69   | p-Isopropyltoluene        | 10.000 | 9.434  | 5.7    | 95    | -0.02    |
| 70   | n-Butylbenzene            | 10.000 | 9.529  | 4.7    | 95    | -0.02    |
| 71   | 2-Chlorotoluene           | 10.000 | 9.713  | 2.9    | 94    | -0.02    |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.990  | 0.1    | 94    | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.794  | 2.1    | 94    | -0.02    |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.190  | 8.1    | 96    | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 8.345  | 16.5   | 95    | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 9.119  | 8.8    | 94    | -0.02    |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 8.620  | 13.8   | 93    | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 13.968 | -39.7# | 169   | -0.02    |
| 79 T | Naphthalene               | 10.000 | 11.693 | -16.9  | 94    | -0.03    |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 18.849 | -88.5# | 94    | -0.01    |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.771 | -7.7   | 93    | -0.03    |

(#) = Out of Range

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