

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL032320\  
 Data File : VL034934.D  
 Acq On : 23 Mar 2020 18:00  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 24 04:34:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 09 16:42:53 2020  
 QLast Update : Mon Mar 09 16:42:53 2020  
 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   | 108   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 5.163  | 48.4# | 73    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.219  | 7.8   | 110   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.847  | 1.5   | 115   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.722  | 2.8   | 112   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 10.069 | -0.7  | 117   | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.797  | 2.0   | 115   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.052  | 9.5   | 109   | 0.00     |
| 9 T  | Propene                     | 10.000 | 9.068  | 9.3   | 108   | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.978  | 0.2   | 113   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.426  | 5.7   | 114   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.575  | 4.3   | 115   | 0.00     |
| 13   | Ethanol                     | 10.000 | 8.635  | 13.7  | 123   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.639  | 3.6   | 111   | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.683  | 13.2  | 117   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.528  | 4.7   | 111   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 7.633  | 23.7  | 94    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.768  | 2.3   | 114   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.749  | 12.5  | 108   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 10.060 | -0.6  | 122   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.106  | 8.9   | 106   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.601  | 4.0   | 113   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.122  | 8.8   | 105   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.327  | 6.7   | 109   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.293  | 7.1   | 111   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.708  | 2.9   | 113   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.147 | -1.5  | 110   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.539  | 14.6  | 98    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.689  | 3.1   | 116   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.583  | 4.2   | 109   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.406  | 5.9   | 108   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.473  | 5.3   | 108   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 101   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.752  | 2.5   | 110   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 10.571 | -5.7  | 107   | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.726  | 2.7   | 108   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.287 | -2.9  | 112   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.805  | 2.0   | 108   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.742  | 2.6   | 109   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.032  | 9.7   | 106   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 10.115 | -1.2  | 106   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 10.346 | -3.5  | 109   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.485 | -4.8  | 110   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 10.157 | -1.6  | 112   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 10.027 | -0.3  | 100   | 0.00     |

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

|      | Compound                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 9.941  | 0.6    | 102   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.967  | 0.3    | 109   | 0.00     |
| 48 T | Dibromochloromethane      | 10.000 | 10.177 | -1.8   | 104   | 0.00     |
| 49 T | Bromoform                 | 10.000 | 10.051 | -0.5   | 99    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.318 | -3.2   | 112   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 10.441 | -4.4   | 110   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 8.617  | 13.8   | 100   | 0.00     |
| 53 T | Toluene                   | 10.000 | 9.860  | 1.4    | 107   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.991  | 0.1    | 107   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 104   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.226  | 7.7    | 104   | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.018  | 9.8    | 107   | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.490  | 5.1    | 109   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 18.712 | 6.4    | 110   | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 9.468  | 5.3    | 112   | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.742  | 2.6    | 106   | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.254  | 7.5    | 109   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 10.172 | -1.7   | 117   | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 9.438  | 5.6    | 108   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.148  | 8.5    | 107   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 8.590  | 14.1   | 87    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.574  | 4.3    | 110   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.117 | -1.2   | 108   | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.441  | 5.6    | 107   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.992  | 0.1    | 113   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.470  | 5.3    | 110   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.610  | 3.9    | 109   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.588  | 4.1    | 109   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.734  | 2.7    | 111   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.223  | 7.8    | 108   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 9.127  | 8.7    | 105   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.341  | 6.6    | 107   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 9.168  | 8.3    | 105   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 11.694 | -16.9  | 103   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 18.100 | -81.0# | 94    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.623 | -6.2   | 103   | 0.00     |

(#) = Out of Range

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