

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL120122\  
 Data File : VL039962.D  
 Acq On : 2 Dec 2022 9:06  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2022  
 Supervised By : Mahesh Dadoda 12/05/2022

Quant Time: Dec 02 12:07:11 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2022

QLast Update : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.153  | 49   | 995831   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 6.616  | 114  | 3094399  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 11.429 | 117  | 3141521  | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.741 95 2325746 9.692 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.900%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.697 | 85  | 1749763 | 12.269 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 2.642 | 51  | 1174315 | 8.546  | ppbv   | 98     |
| 4) Chloromethane              | 2.780 | 50  | 666851  | 7.594  | ppbv   | 98     |
| 5) Vinyl Chloride             | 2.886 | 62  | 624097  | 9.095  | ppbv   | 99     |
| 6) Bromomethane               | 3.086 | 94  | 266016  | 11.366 | ppbv   | 98     |
| 7) Chloroethane               | 3.160 | 64  | 231873  | 8.549  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 2.822 | 85  | 1553266 | 9.538  | ppbv   | 99     |
| 9) Propene                    | 2.661 | 41  | 545117  | 8.421  | ppbv   | 97     |
| 10) Heptane                   | 7.542 | 43  | 1353796 | 8.667  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.526 | 101 | 1602217 | 9.210  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.031 | 101 | 1193860 | 9.067  | ppbv   | 99     |
| 13) Ethanol                   | 3.211 | 45  | 27917   | 5.649  | ppbv   | 93     |
| 14) Bromoethene               | 3.330 | 108 | 482467  | 9.397  | ppbv   | 99     |
| 15) Acetone                   | 3.433 | 43  | 1100403 | 8.331  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 2.951 | 39  | 583194  | 8.859  | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 3.841 | 59  | 1288666 | 8.486  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.844 | 96  | 533502  | 8.883  | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 3.542 | 45  | 564181  | 7.889  | ppbv # | 31     |
| 20) Methylene Chloride        | 3.896 | 84  | 460085  | 7.190  | ppbv   | 97     |
| 21) Allyl Chloride            | 3.960 | 41  | 786778  | 8.587  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.407 | 96  | 549184  | 8.992  | ppbv   | 99     |
| 23) Vinyl Acetate             | 4.590 | 43  | 203101  | 3.743  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 4.526 | 63  | 1150318 | 8.792  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.166 | 43  | 2453846 | 10.118 | ppbv   | 99     |
| 26) Hexane                    | 5.176 | 57  | 925642  | 8.737  | ppbv   | 88     |
| 27) Carbon Disulfide          | 4.089 | 76  | 1298988 | 9.712  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.549 | 73  | 1132445 | 8.538  | ppbv   | 98     |
| 29) Chloroform                | 5.237 | 83  | 1527819 | 10.852 | ppbv   | 98     |
| 30) Cyclohexane               | 6.565 | 84  | 915466  | 8.806  | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene    | 5.041 | 61  | 881900  | 9.010  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 5.967 | 97  | 1600516 | 9.103  | ppbv   | 99     |
| 34) 2-Butanone                | 4.748 | 43  | 1310293 | 8.849  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.455 | 117 | 1660706 | 9.450  | ppbv   | 98     |
| 36) Benzene                   | 6.333 | 78  | 2272777 | 8.641  | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 5.767 | 62  | 1221013 | 8.471  | ppbv   | 99     |
| 38) Trichloroethene           | 7.253 | 130 | 1063363 | 7.232  | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.037 | 63  | 856178  | 8.355  | ppbv   | 98     |
| 40) 1,4-Dioxane               | 7.253 | 88  | 353027  | 8.648  | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.520 | 42  | 899853  | 8.803  | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.211 | 83  | 1795518 | 9.185  | ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.439 | 69  | 944491  | 9.159  | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 7.291 | 57  | 3693087 | 8.411  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 8.674 | 75  | 812027  | 8.523  | ppbv   | 97     |

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Quant Time: Dec 02 12:07:11 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2022

QLast Update : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.105  | 75   | 1115128  | 8.449  | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 8.864  | 97   | 923392   | 8.768  | ppbv  | 96       |
| 48) Dibromochloromethane      | 9.674  | 129  | 1542292  | 9.998  | ppbv  | 99       |
| 49) Bromoform                 | 12.371 | 173  | 1279301  | 10.245 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.143  | 43   | 2294754  | 8.654  | ppbv  | 99       |
| 51) 2-Hexanone                | 9.516  | 43   | 1805490  | 8.770  | ppbv  | 100      |
| 52) Tetrachloroethene         | 10.581 | 164  | 818058   | 8.314  | ppbv  | 97       |
| 53) Toluene                   | 9.182  | 91   | 2613345  | 8.722  | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 9.973  | 107  | 1199972  | 10.677 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 11.474 | 131  | 1173528  | 9.138  | ppbv  | 98       |
| 57) Chlorobenzene             | 11.490 | 112  | 1983615  | 8.258  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.053 | 91   | 3494405  | 8.199  | ppbv  | 100      |
| 59) m/p-Xylene                | 12.339 | 91   | 5841522m | 16.376 | ppbv  |          |
| 60) o-Xylene                  | 13.024 | 91   | 2789586  | 8.200  | ppbv  | 99       |
| 61) Styrene                   | 12.863 | 104  | 1712747  | 8.435  | ppbv  | 99       |
| 62) Isopropylbenzene          | 13.992 | 105  | 4300747  | 8.767  | ppbv  | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.015 | 83   | 1519775  | 13.380 | ppbv  | 99       |
| 64) n-propylbenzene           | 14.883 | 120  | 1132422  | 8.825  | ppbv  | 95       |
| 65) tert-Butylbenzene         | 16.059 | 119  | 3735665  | 8.705  | ppbv  | 99       |
| 66) Benzyl Chloride           | 16.294 | 91   | 191083   | 5.196  | ppbv  | 98       |
| 67) sec-Butylbenzene          | 16.603 | 105  | 5226781  | 8.858  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 16.963 | 119  | 4321571  | 8.891  | ppbv  | 98       |
| 70) n-Butylbenzene            | 17.854 | 91   | 4382102  | 9.094  | ppbv  | 98       |
| 71) 2-Chlorotoluene           | 14.764 | 91   | 3214548  | 8.645  | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.159 | 105  | 3264120  | 8.536  | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.320 | 105  | 2955302  | 8.443  | ppbv  | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.075 | 105  | 3139526  | 8.472  | ppbv  | 95       |
| 75) 1,3-Dichlorobenzene       | 16.297 | 146  | 1785081  | 8.561  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 16.439 | 146  | 1727589  | 8.358  | ppbv  | 98       |
| 77) 1,2-Dichlorobenzene       | 17.108 | 146  | 1732076  | 8.617  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.603 | 225  | 1219149  | 8.741  | ppbv  | 100      |
| 79) Naphthalene               | 21.349 | 128  | 2484959  | 11.204 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 24.345 | 142  | 652894   | 10.466 | ppbv  | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.104 | 180  | 1272181  | 9.288  | ppbv  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

