

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\  
 Data File : VL038253.D  
 Acq On : 24 Jan 2022 9:27  
 Operator : SY/AP  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Quant Time: Jan 24 11:13:40 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/25/2022  
 Supervised By : Mahesh Dadoda 01/26/2022

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 779421   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2240938  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2054902m | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1601445  | 10.11    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.10% |

#### Target Compounds

|                                |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1711266 | 11.652 | ppbv 96   |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 1486894 | 9.079  | ppbv 99   |
| 4) Chloromethane               | 3.15 | 50  | 509250  | 8.967  | ppbv 98   |
| 5) Vinyl Chloride              | 3.27 | 62  | 509632  | 8.928  | ppbv 98   |
| 6) Bromomethane                | 3.48 | 94  | 287471  | 9.883  | ppbv 95   |
| 7) Chloroethane                | 3.57 | 64  | 178703  | 9.297  | ppbv 95   |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1225998 | 8.796  | ppbv 94   |
| 9) Propene                     | 3.02 | 41  | 503664  | 8.857  | ppbv 99   |
| 10) Heptane                    | 8.12 | 43  | 1280718 | 8.878  | ppbv 99   |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1274546 | 9.449  | ppbv 98   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 943675  | 9.263  | ppbv 95   |
| 13) Ethanol                    | 3.62 | 45  | 55349m  | 5.741  | ppbv      |
| 14) Bromoethene                | 3.75 | 108 | 372780  | 9.184  | ppbv 98   |
| 15) Acetone                    | 3.85 | 43  | 602344  | 7.700  | ppbv 96   |
| 16) 1,3-Butadiene              | 3.34 | 39  | 481778  | 9.041  | ppbv 100  |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 749116  | 8.719  | ppbv 98   |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 418788  | 9.386  | ppbv 99   |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 399746  | 8.193  | ppbv # 39 |
| 20) Methylene Chloride         | 4.35 | 84  | 349244  | 7.908  | ppbv 97   |
| 21) Allyl Chloride             | 4.42 | 41  | 626339  | 9.466  | ppbv 97   |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 432502  | 9.501  | ppbv 96   |
| 23) Vinyl Acetate              | 5.08 | 43  | 998635  | 9.428  | ppbv 99   |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 863884  | 9.120  | ppbv 99   |
| 25) Ethyl Acetate              | 5.68 | 43  | 1809322 | 8.537  | ppbv 100  |
| 26) Hexane                     | 5.69 | 57  | 838693  | 7.888  | ppbv 95   |
| 27) Carbon Disulfide           | 4.56 | 76  | 1110884 | 11.869 | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 920700  | 8.617  | ppbv 99   |
| 29) Chloroform                 | 5.76 | 83  | 1396895 | 8.853  | ppbv 99   |
| 30) Cyclohexane                | 7.13 | 84  | 778617  | 8.268  | ppbv 91   |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 661398  | 7.932  | ppbv 95   |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 1429142 | 9.129  | ppbv 97   |
| 34) 2-Butanone                 | 5.25 | 43  | 657919  | 9.768  | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 1510374 | 10.919 | ppbv 99   |
| 36) Benzene                    | 6.90 | 78  | 1896477 | 9.073  | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1110384 | 10.587 | ppbv 96   |
| 38) Trichloroethene            | 7.84 | 130 | 681274  | 8.564  | ppbv 98   |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 766129  | 9.523  | ppbv 96   |
| 40) 1,4-Dioxane                | 7.84 | 88  | 168710  | 7.209  | ppbv 76   |
| 41) Tetrahydrofuran            | 6.06 | 42  | 467113  | 9.468  | ppbv 98   |
| 42) Bromodichloromethane       | 7.79 | 83  | 1610895 | 10.794 | ppbv 99   |
| 43) Methyl Methacrylate        | 8.01 | 69  | 716832  | 9.965  | ppbv 95   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\  
 Data File : VL038253.D  
 Acq On : 24 Jan 2022 9:27  
 Operator : SY/AP  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/25/2022  
 Supervised By : Mahesh Dadoda 01/26/2022

Quant Time: Jan 24 11:13:40 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 3212767  | 9.048  | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 649497   | 12.200 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 802765   | 10.893 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 748729   | 8.967  | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.31 | 129  | 1307968  | 11.140 | ppbv   | 98       |
| 49) Bromoform                 | 13.04 | 173  | 958753   | 11.493 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 1291051  | 10.542 | ppbv   | 97       |
| 51) 2-Hexanone                | 10.14 | 43   | 589222   | 10.052 | ppbv # | 93       |
| 52) Tetrachloroethene         | 11.22 | 164  | 615214   | 7.974  | ppbv   | 96       |
| 53) Toluene                   | 9.81  | 91   | 2135114  | 8.852  | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 1090946  | 9.211  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 821419   | 9.611  | ppbv # | 57       |
| 57) Chlorobenzene             | 12.15 | 112  | 1484943  | 8.332  | ppbv   | 94       |
| 58) Ethyl Benzene             | 12.71 | 91   | 2796827  | 8.771  | ppbv   | 98       |
| 59) m/p-Xylene                | 13.00 | 91   | 4685553m | 17.188 | ppbv   |          |
| 60) o-Xylene                  | 13.69 | 91   | 2181915  | 8.633  | ppbv   | 96       |
| 61) Styrene                   | 13.53 | 104  | 1142112  | 8.921  | ppbv   | 97       |
| 62) Isopropylbenzene          | 14.67 | 105  | 2884088  | 8.128  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 1475430  | 7.591  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.56 | 120  | 721811   | 8.181  | ppbv   | 96       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 2331794  | 7.465  | ppbv   | 96       |
| 66) Benzyl Chloride           | 16.99 | 91   | 142865m  | 12.272 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.29 | 105  | 3247088  | 7.566  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 2546943  | 7.379  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 2503813  | 7.629  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 2163140  | 8.190  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 2355899  | 8.094  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 2071128  | 7.951  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 2116414  | 7.736  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 1139116  | 7.708  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 1116182  | 7.613  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 1031063  | 7.287  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 673894   | 7.719  | ppbv   | 99       |
| 79) Naphthalene               | 22.20 | 128  | 1285543  | 9.096  | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 24.97 | 142  | 204371   | 7.289  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 680281   | 8.417  | ppbv   | 99       |

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

