

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100521\  
 Data File : VL037767.D  
 Acq On : 5 Oct 2021 9:22  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 10/11/2021 7:35:56 PM

Quant Time: Oct 06 05:32:38 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL100421AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 06 05:32:38 2021  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1427628  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4236236  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3791061m | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2684624  | 10.13    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.30% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 1861930  | 8.165  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 2552940  | 9.307  | ppbv   | 100    |
| 4) Chloromethane               | 3.13 | 50   | 952439   | 9.480  | ppbv   | 96     |
| 5) Vinyl Chloride              | 3.25 | 62   | 946127   | 10.273 | ppbv   | 98     |
| 6) Bromomethane                | 3.46 | 94   | 456663   | 9.166  | ppbv   | 97     |
| 7) Chloroethane                | 3.55 | 64   | 322376   | 9.520  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 2066424  | 9.168  | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41   | 949068   | 9.403  | ppbv   | 99     |
| 10) Heptane                    | 8.11 | 43   | 2348450  | 10.245 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 1950784  | 9.589  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1499539  | 9.728  | ppbv   | 98     |
| 13) Ethanol                    | 3.59 | 45   | 92411m   | 11.196 | ppbv   |        |
| 14) Bromoethene                | 3.73 | 108  | 663961   | 9.796  | ppbv   | 96     |
| 15) Acetone                    | 3.84 | 43   | 1187823  | 9.268  | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.31 | 39   | 935001   | 10.027 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.27 | 59   | 1414030  | 10.713 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 686942   | 9.806  | ppbv   | 93     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 827293   | 10.376 | ppbv # | 98     |
| 20) Methylene Chloride         | 4.33 | 84   | 519327   | 8.020  | ppbv   | 98     |
| 21) Allyl Chloride             | 4.40 | 41   | 1103447  | 9.719  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 693429   | 9.846  | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.06 | 43   | 1736622  | 9.042  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 1398054  | 10.000 | ppbv   | 97     |
| 25) Ethyl Acetate              | 5.66 | 43   | 3609699  | 10.037 | ppbv   | 99     |
| 26) Hexane                     | 5.67 | 57   | 1725361  | 9.743  | ppbv   | 100    |
| 27) Carbon Disulfide           | 4.54 | 76   | 1660820  | 10.583 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1480862  | 10.044 | ppbv   | 98     |
| 29) Chloroform                 | 5.74 | 83   | 2390902  | 9.446  | ppbv   | 100    |
| 30) Cyclohexane                | 7.11 | 84   | 1431484  | 9.533  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 1623412  | 10.098 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97   | 2338510  | 9.745  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.23 | 43   | 1582798  | 9.255  | ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 2383634  | 9.908  | ppbv   | 98     |
| 36) Benzene                    | 6.87 | 78   | 3598588  | 9.946  | ppbv   | 100    |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1705695  | 10.012 | ppbv   | 100    |
| 38) Trichloroethene            | 7.82 | 130  | 1396143  | 9.767  | ppbv   | 99     |
| 39) 1,2-Dichloropropane        | 7.59 | 63   | 1349427  | 9.915  | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.82 | 88   | 368675   | 10.825 | ppbv # | 100    |
| 41) Tetrahydrofuran            | 6.03 | 42   | 842362   | 10.059 | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.77 | 83   | 2594736  | 10.368 | ppbv   | 97     |
| 43) Methyl Methacrylate        | 8.00 | 69   | 1269843  | 10.745 | ppbv   | 98     |

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 0  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 5953636  | 9.794  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 858501   | 10.557 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1187561  | 10.536 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1441290  | 9.742  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2289136  | 10.853 | ppbv   | 100      |
| 49) Bromoform                 | 13.02 | 173  | 1913278  | 11.855 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.72  | 43   | 2359451  | 10.598 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.11 | 43   | 1108974  | 11.158 | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.20 | 164  | 1319525  | 9.373  | ppbv   | 95       |
| 53) Toluene                   | 9.79  | 91   | 4130594  | 10.301 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 2023242  | 10.124 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1581914  | 10.080 | ppbv   | 98       |
| 57) Chlorobenzene             | 12.13 | 112  | 3012336  | 9.686  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.69 | 91   | 5310725  | 10.432 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.98 | 91   | 8828600m | 20.204 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 4136390  | 9.877  | ppbv   | 99       |
| 61) Styrene                   | 13.51 | 104  | 2363125  | 11.666 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.64 | 105  | 5846559  | 10.009 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 3023456  | 9.356  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.54 | 120  | 1560397  | 10.713 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 5172520  | 10.063 | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.97 | 91   | 236546   | 9.325  | ppbv # | 98       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 7273183  | 10.346 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 6113359  | 10.756 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 6119087  | 11.333 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 4384023  | 10.628 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4999199  | 10.513 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4646694  | 10.758 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4825564  | 10.639 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 2958104  | 10.527 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2919899  | 10.893 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2859378  | 10.593 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 2135127  | 9.687  | ppbv   | 99       |
| 79) Naphthalene               | 22.16 | 128  | 3572227  | 12.860 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.95 | 142  | 1003419  | 13.453 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2141052  | 12.051 | ppbv   | 99       |

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

