

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\  
 Data File : VL036993.D  
 Acq On : 19 May 2021 15:29  
 Operator : SY/AP  
 Sample : VL0519ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0519ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/24/2021 3:01:30 PM

Quant Time: May 20 12:30:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1261373  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3802958  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3701445m | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2851254  | 10.25    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.50% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85   | 2041408  | 9.540  | ppbv  | 100    |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 2260450  | 9.782  | ppbv  | 99     |
| 4) Chloromethane               | 3.12 | 50   | 744501   | 9.468  | ppbv  | 99     |
| 5) Vinyl Chloride              | 3.24 | 62   | 792619   | 9.221  | ppbv  | 100    |
| 6) Bromomethane                | 3.46 | 94   | 468116   | 10.335 | ppbv  | 99     |
| 7) Chloroethane                | 3.54 | 64   | 276684   | 9.914  | ppbv  | 96     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 1956274  | 9.737  | ppbv  | 98     |
| 9) Propene                     | 2.99 | 41   | 767735   | 9.278  | ppbv  | 100    |
| 10) Heptane                    | 8.10 | 43   | 1961189  | 9.510  | ppbv  | 98     |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 2035285  | 10.276 | ppbv  | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1401395  | 9.933  | ppbv  | 98     |
| 13) Ethanol                    | 3.59 | 45   | 78506m   | 7.111  | ppbv  |        |
| 14) Bromoethene                | 3.72 | 108  | 626016   | 10.074 | ppbv  | 100    |
| 15) Acetone                    | 3.84 | 43   | 1041185  | 8.059  | ppbv  | 96     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 781435   | 9.735  | ppbv  | 98     |
| 17) tert-Butyl alcohol         | 4.28 | 59   | 1057874  | 8.939  | ppbv  | 98     |
| 18) 1,1-Dichloroethene         | 4.27 | 96   | 644296   | 9.876  | ppbv  | 95     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 588646   | 8.476  | ppbv  | # 36   |
| 20) Methylene Chloride         | 4.33 | 84   | 542658   | 7.836  | ppbv  | 99     |
| 21) Allyl Chloride             | 4.39 | 41   | 942651   | 9.672  | ppbv  | 98     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96   | 619870   | 9.914  | ppbv  | 97     |
| 23) Vinyl Acetate              | 5.06 | 43   | 2015859  | 9.830  | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 1530315  | 10.367 | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.66 | 43   | 2968451  | 9.561  | ppbv  | 100    |
| 26) Hexane                     | 5.67 | 57   | 1435079  | 9.048  | ppbv  | 98     |
| 27) Carbon Disulfide           | 4.53 | 76   | 1537734  | 9.620  | ppbv  | 100    |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1728541  | 9.092  | ppbv  | 100    |
| 29) Chloroform                 | 5.73 | 83   | 2253982  | 10.059 | ppbv  | 97     |
| 30) Cyclohexane                | 7.11 | 84   | 1304247  | 9.677  | ppbv  | 98     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 1447364  | 10.179 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97   | 2292280  | 9.527  | ppbv  | 99     |
| 34) 2-Butanone                 | 5.23 | 43   | 1435533  | 10.367 | ppbv  | 98     |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 2446186  | 9.681  | ppbv  | 99     |
| 36) Benzene                    | 6.87 | 78   | 3074812  | 9.387  | ppbv  | 100    |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1700632  | 10.472 | ppbv  | 100    |
| 38) Trichloroethene            | 7.82 | 130  | 1268087  | 9.049  | ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.59 | 63   | 1186533  | 9.403  | ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.82 | 88   | 304463m  | 10.219 | ppbv  |        |
| 41) Tetrahydrofuran            | 6.03 | 42   | 736429   | 9.338  | ppbv  | 98     |
| 42) Bromodichloromethane       | 7.77 | 83   | 2463104  | 10.025 | ppbv  | 99     |
| 43) Methyl Methacrylate        | 7.99 | 69   | 1136298  | 10.064 | ppbv  | 100    |

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 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0519ABS01

Manual Integrations  
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MMDadoda  
 5/24/2021 3:01:30 PM

Quant Time: May 20 12:30:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 5015461  | 8.924  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 1101227  | 12.767 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1439082  | 12.404 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1296016  | 9.813  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2280262  | 10.663 | ppbv   | 100      |
| 49) Bromoform                 | 13.02 | 173  | 1885137  | 10.674 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.72  | 43   | 2176298  | 9.524  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.12 | 43   | 1149933  | 9.519  | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.20 | 164  | 1252453  | 9.615  | ppbv   | 98       |
| 53) Toluene                   | 9.78  | 91   | 3718364  | 9.540  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 1975346  | 10.520 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1518222  | 9.748  | ppbv # | 58       |
| 57) Chlorobenzene             | 12.12 | 112  | 2814610  | 9.807  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.69 | 91   | 4909587  | 9.398  | ppbv   | 98       |
| 59) m/p-Xylene                | 12.97 | 91   | 8102916m | 18.764 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 3844950  | 9.336  | ppbv   | 100      |
| 61) Styrene                   | 13.51 | 104  | 2351005  | 10.133 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.64 | 105  | 5478721  | 9.256  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 2670356  | 8.682  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.54 | 120  | 1507534  | 9.872  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 4905074  | 9.184  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.97 | 91   | 233619   | 7.883  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 6608061  | 9.069  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 5755188  | 9.187  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 5574716  | 9.367  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 4063596  | 9.505  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4752430  | 9.722  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4314978  | 9.400  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4440205  | 9.355  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 2829337  | 9.762  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2765756  | 9.438  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2732015  | 9.408  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 1926954  | 8.252  | ppbv   | 99       |
| 79) Naphthalene               | 22.17 | 128  | 4072584  | 10.936 | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 1100601m | 13.591 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2296317  | 10.115 | ppbv   | 96       |

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

