

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050922\  
 Data File : VL039013.D  
 Acq On : 10 May 2022 9:54  
 Operator : SY/AP  
 Sample : VL0509ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0509ABS01

Quant Time: May 11 01:45:30 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 11 01:45:30 2022  
 QLast Update : Thu May 05 10:12:15 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.642  | 49   | 1009163  | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.143  | 114  | 2856184  | 10.000 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.047 | 117  | 2591367m | 10.000 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.375 | 95    | 1868852  | 9.106    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 91.100% |

| Target Compounds                | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|---------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane      | 3.038 | 85   | 1321996  | 8.361  | ppbv   | 100    |
| 3) Chlorodifluoromethane        | 2.980 | 51   | 1191267  | 9.513  | ppbv   | 95     |
| 4) Chloromethane                | 3.128 | 50   | 636530   | 10.150 | ppbv   | 96     |
| 5) Vinyl Chloride               | 3.243 | 62   | 590740   | 10.316 | ppbv   | 95     |
| 6) Bromomethane                 | 3.459 | 94   | 295325   | 10.917 | ppbv   | 95     |
| 7) Chloroethane                 | 3.539 | 64   | 208290   | 10.867 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane    | 3.176 | 85   | 1405097  | 9.805  | ppbv   | 95     |
| 9) Propene                      | 2.999 | 41   | 583228   | 10.665 | ppbv   | 99     |
| 10) Heptane                     | 8.092 | 43   | 1543921  | 11.508 | ppbv   | 99     |
| 11) Trichlorofluoromethane      | 3.931 | 101  | 1255036  | 9.251  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoro... | 4.465 | 101  | 931216   | 9.964  | ppbv   | 90     |
| 13) Ethanol                     | 3.594 | 45   | 33756m   | 8.722  | ppbv   |        |
| 14) Bromoethene                 | 3.726 | 108  | 421699   | 10.942 | ppbv   | 96     |
| 15) Acetone                     | 3.829 | 43   | 968139   | 10.170 | ppbv   | 98     |
| 16) 1,3-Butadiene               | 3.314 | 39   | 566417   | 10.356 | ppbv   | 99     |
| 17) tert-Butyl alcohol          | 4.263 | 59   | 905476   | 12.376 | ppbv   | 96     |
| 18) 1,1-Dichloroethene          | 4.272 | 96   | 440416   | 10.950 | ppbv   | 99     |
| 19) Isopropyl Alcohol           | 3.941 | 45   | 498031   | 11.003 | ppbv   | 99     |
| 20) Methylene Chloride          | 4.320 | 84   | 361020   | 10.062 | ppbv   | 96     |
| 21) Allyl Chloride              | 4.391 | 41   | 725523   | 11.185 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene    | 4.861 | 96   | 461710   | 10.627 | ppbv   | 99     |
| 23) Vinyl Acetate               | 5.047 | 43   | 916429   | 12.167 | ppbv # | 97     |
| 24) 1,1-Dichloroethane          | 4.989 | 63   | 933052   | 10.758 | ppbv   | 100    |
| 25) Ethyl Acetate               | 5.648 | 43   | 2583245  | 11.338 | ppbv   | 100    |
| 26) Hexane                      | 5.661 | 57   | 1123261  | 11.095 | ppbv   | 96     |
| 27) Carbon Disulfide            | 4.529 | 76   | 1044226  | 10.858 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether     | 5.009 | 73   | 947487   | 12.301 | ppbv   | 100    |
| 29) Chloroform                  | 5.722 | 83   | 1637090  | 9.995  | ppbv   | 100    |
| 30) Cyclohexane                 | 7.098 | 84   | 988294   | 11.660 | ppbv   | 93     |
| 31) cis-1,2-Dichloroethene      | 5.523 | 61   | 1078258  | 10.455 | ppbv   | 90     |
| 32) 1,1,1-Trichloroethane       | 6.481 | 97   | 1638248  | 10.003 | ppbv   | 97     |
| 34) 2-Butanone                  | 5.214 | 43   | 1094151  | 7.509  | ppbv   | 99     |
| 35) Carbon Tetrachloride        | 6.989 | 117  | 1643706  | 8.734  | ppbv   | 98     |
| 36) Benzene                     | 6.861 | 78   | 2421142  | 9.905  | ppbv   | 99     |
| 37) 1,2-Dichloroethane          | 6.275 | 62   | 1188979  | 7.862  | ppbv # | 95     |
| 38) Trichloroethene             | 7.803 | 130  | 1082009  | 9.958  | ppbv   | 95     |
| 39) 1,2-Dichloropropane         | 7.581 | 63   | 925747   | 9.734  | ppbv   | 95     |
| 40) 1,4-Dioxane                 | 7.793 | 88   | 342235   | 10.019 | ppbv   | 92     |
| 41) Tetrahydrofuran             | 6.018 | 42   | 1011158  | 10.325 | ppbv   | 99     |
| 42) Bromodichloromethane        | 7.758 | 83   | 1795229  | 8.683  | ppbv   | 96     |
| 43) Methyl Methacrylate         | 7.979 | 69   | 998850   | 10.066 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane      | 7.835 | 57   | 3953330  | 9.217  | ppbv   | 97     |
| 45) t-1,3-Dichloropropene       | 9.240 | 75   | 1049684  | 10.928 | ppbv   | 98     |

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 Sample : VL0509ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0509ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 11 01:45:30 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Thu May 11 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.668  | 75   | 1299317  | 10.200 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 9.439  | 97   | 982550   | 9.933  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.269 | 129  | 1548658  | 9.619  | ppbv   | 99       |
| 49) Bromoform                 | 13.002 | 173  | 1205752  | 9.820  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.703  | 43   | 2501202  | 9.789  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.095 | 43   | 2015101  | 10.806 | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.185 | 164  | 855144   | 9.790  | ppbv   | 96       |
| 53) Toluene                   | 9.767  | 91   | 2831671  | 10.336 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.571 | 107  | 1356446  | 10.073 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.089 | 131  | 1114407  | 9.801  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.111 | 112  | 2042823  | 10.517 | ppbv   | 90       |
| 58) Ethyl Benzene             | 12.671 | 91   | 3733558  | 10.011 | ppbv   | 99       |
| 59) m/p-Xylene                | 12.957 | 91   | 6102323m | 19.167 | ppbv   |          |
| 60) o-Xylene                  | 13.651 | 91   | 2814808  | 9.394  | ppbv   | 96       |
| 61) Styrene                   | 13.487 | 104  | 1829590  | 11.437 | ppbv   | 94       |
| 62) Isopropylbenzene          | 14.629 | 105  | 4254555  | 9.709  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.638 | 83   | 1620978  | 9.187  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.523 | 120  | 1117352  | 10.547 | ppbv   | 91       |
| 65) tert-Butylbenzene         | 16.703 | 119  | 3692381  | 9.617  | ppbv   | 92       |
| 66) Benzyl Chloride           | 16.947 | 91   | 657953   | 13.110 | ppbv   | 95       |
| 67) sec-Butylbenzene          | 17.256 | 105  | 5274098  | 9.615  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.613 | 119  | 4392565  | 9.912  | ppbv   | 96       |
| 70) n-Butylbenzene            | 18.510 | 91   | 4512783  | 9.585  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.413 | 91   | 3193079  | 9.452  | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 15.799 | 105  | 3565992  | 10.444 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 15.957 | 105  | 3119804  | 10.149 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.725 | 105  | 3259383  | 9.684  | ppbv # | 89       |
| 75) 1,3-Dichlorobenzene       | 16.953 | 146  | 1883953  | 10.216 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.095 | 146  | 1884887  | 10.390 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.776 | 146  | 1844430  | 10.113 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.329 | 225  | 1453728  | 8.673  | ppbv   | 100      |
| 79) Naphthalene               | 22.143 | 128  | 3189894  | 11.667 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.934 | 142  | 1088669  | 13.163 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.876 | 180  | 1653533  | 10.321 | ppbv   | 98       |

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

