

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL070522\  
 Data File : VL039437.D  
 Acq On : 6 Jul 2022 3:07  
 Operator : SY/AP  
 Sample : N3214-15 0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2022

Quant Time: Jul 06 06:30:56 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 6 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/07/2022  
 Supervised By : Mahesh Dadoda 07/07/2022

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.681  | 49    | 1102961  | 10.000   | ppbv   | 0.03     |
| 33) 1,4-Difluorobenzene       | 7.189  | 114   | 3155766  | 10.000   | ppbv   | 0.03     |
| 55) Chlorobenzene-d5          | 12.098 | 117   | 2700441  | 10.000   | ppbv   | 0.03     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 14.426 | 95    | 2031504  | 10.141   | ppbv   | 0.04     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.400% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 3.063  | 85    | 29018    | 0.182    | ppbv   | 89       |
| 3) Chlorodifluoromethane      | 3.005  | 51    | 19044    | 0.136    | ppbv   | 97       |
| 4) Chloromethane              | 3.157  | 50    | 9464     | 0.124    | ppbv   | 96       |
| 5) Vinyl Chloride             | 3.276  | 62    | 9266m    | 0.123    | ppbv   |          |
| 6) Bromomethane               | 3.488  | 94    | 4875m    | 0.153    | ppbv   |          |
| 7) Chloroethane               | 3.581  | 64    | 4136m    | 0.154    | ppbv   |          |
| 8) Dichlorotetrafluoroethane  | 3.202  | 85    | 22707    | 0.131    | ppbv   | 96       |
| 9) Propene                    | 3.041  | 41    | 14769m   | 0.234    | ppbv   |          |
| 10) Heptane                   | 8.140  | 43    | 12673m   | 0.086    | ppbv   |          |
| 11) Trichlorofluoromethane    | 3.967  | 101   | 22873m   | 0.129    | ppbv   |          |
| 12) 1,1,2-Trichlorotrifluo... | 4.504  | 101   | 18151m   | 0.137    | ppbv   |          |
| 13) Ethanol                   | 3.623  | 45    | 489      | 0.133    | ppbv # | 23       |
| 14) Bromoethene               | 3.755  | 108   | 6467m    | 0.116    | ppbv   |          |
| 15) Acetone                   | 3.883  | 43    | 33539m   | 0.257    | ppbv   |          |
| 16) 1,3-Butadiene             | 3.337  | 39    | 7724m    | 0.114    | ppbv   |          |
| 17) tert-Butyl alcohol        | 4.327  | 59    | 13599m   | 0.123    | ppbv   |          |
| 18) 1,1-Dichloroethene        | 4.308  | 96    | 8042m    | 0.134    | ppbv   |          |
| 19) Isopropyl Alcohol         | 4.009  | 45    | 7002m    | 0.101    | ppbv   |          |
| 20) Methylene Chloride        | 4.356  | 84    | 15684m   | 0.302    | ppbv   |          |
| 21) Allyl Chloride            | 4.427  | 41    | 9926m    | 0.110    | ppbv   |          |
| 22) trans-1,2-Dichloroethene  | 4.899  | 96    | 7300m    | 0.126    | ppbv   |          |
| 23) Vinyl Acetate             | 5.102  | 43    | 9913m    | 0.114    | ppbv   |          |
| 24) 1,1-Dichloroethane        | 5.021  | 63    | 15390    | 0.125    | ppbv # | 89       |
| 25) Ethyl Acetate             | 5.703  | 43    | 29248m   | 0.109    | ppbv   |          |
| 26) Hexane                    | 5.703  | 57    | 14112m   | 0.131    | ppbv   |          |
| 27) Carbon Disulfide          | 4.568  | 76    | 12629m   | 0.097    | ppbv   |          |
| 28) Methyl tert-Butyl Ether   | 5.073  | 73    | 13192m   | 0.114    | ppbv   |          |
| 29) Chloroform                | 5.761  | 83    | 22964    | 0.122    | ppbv # | 71       |
| 30) Cyclohexane               | 7.169  | 84    | 18270m   | 0.186    | ppbv   |          |
| 31) cis-1,2-Dichloroethene    | 5.565  | 61    | 11614m   | 0.101    | ppbv   |          |
| 32) 1,1,1-Trichloroethane     | 6.526  | 97    | 20861m   | 0.113    | ppbv   |          |
| 34) 2-Butanone                | 5.288  | 43    | 18344m   | 0.115    | ppbv   |          |
| 35) Carbon Tetrachloride      | 7.034  | 117   | 19147m   | 0.098    | ppbv   |          |
| 36) Benzene                   | 6.902  | 78    | 24183m   | 0.099    | ppbv   |          |
| 37) 1,2-Dichloroethane        | 6.320  | 62    | 13059m   | 0.091    | ppbv   |          |
| 38) Trichloroethene           | 7.848  | 130   | 13558m   | 0.103    | ppbv   |          |
| 39) 1,2-Dichloropropane       | 7.623  | 63    | 11713m   | 0.128    | ppbv   |          |
| 40) 1,4-Dioxane               | 7.893  | 88    | 4514m    | 0.124    | ppbv   |          |
| 41) Tetrahydrofuran           | 6.092  | 42    | 7805m    | 0.085    | ppbv   |          |
| 42) Bromodichloromethane      | 7.806  | 83    | 17001m   | 0.087    | ppbv   |          |
| 43) Methyl Methacrylate       | 8.050  | 69    | 7548m    | 0.081    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 7.883  | 57    | 37576m   | 0.091    | ppbv   |          |
| 45) t-1,3-Dichloropropene     | 9.291  | 75    | 4779m    | 0.058    | ppbv   |          |

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Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2022  
 Supervised By :Mahesh Dadoda 07/07/2022

Quant Time: Jul 06 06:30:56 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 6

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.719  | 75   | 7908m    | 0.069 | ppbv  |          |
| 47) 1,1,2-Trichloroethane     | 9.491  | 97   | 11740m   | 0.115 | ppbv  |          |
| 48) Dibromochloromethane      | 10.317 | 129  | 12146m   | 0.075 | ppbv  |          |
| 49) Bromoform                 | 13.037 | 173  | 9186m    | 0.070 | ppbv  |          |
| 50) 4-Methyl-2-Pentanone      | 8.790  | 43   | 19101m   | 0.080 | ppbv  |          |
| 51) 2-Hexanone                | 10.188 | 43   | 12749m   | 0.070 | ppbv  |          |
| 52) Tetrachloroethene         | 11.233 | 164  | 10433m   | 0.106 | ppbv  |          |
| 53) Toluene                   | 9.819  | 91   | 22329m   | 0.079 | ppbv  |          |
| 54) 1,2-Dibromoethane         | 10.616 | 107  | 11670m   | 0.092 | ppbv  |          |
| 56) 1,1,1,2-Tetrachloroethane | 12.134 | 131  | 14636m   | 0.123 | ppbv  |          |
| 57) Chlorobenzene             | 12.159 | 112  | 26811m   | 0.128 | ppbv  |          |
| 58) Ethyl Benzene             | 12.722 | 91   | 29601m   | 0.085 | ppbv  |          |
| 59) m/p-Xylene                | 12.999 | 91   | 50040m   | 0.163 | ppbv  |          |
| 60) o-Xylene                  | 13.709 | 91   | 22345m   | 0.077 | ppbv  |          |
| 61) Styrene                   | 13.532 | 104  | 11215m   | 0.071 | ppbv  |          |
| 62) Isopropylbenzene          | 14.677 | 105  | 43186m   | 0.097 | ppbv  |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.687 | 83   | 16189m   | 0.106 | ppbv  |          |
| 64) n-propylbenzene           | 15.568 | 120  | 7787m    | 0.069 | ppbv  |          |
| 65) tert-Butylbenzene         | 16.754 | 119  | 32959m   | 0.080 | ppbv  |          |
| 66) Benzyl Chloride           | 17.008 | 91   | 4098m    | 0.105 | ppbv  |          |
| 67) sec-Butylbenzene          | 17.307 | 105  | 50023m   | 0.091 | ppbv  |          |
| 69) p-Isopropyltoluene        | 17.664 | 119  | 33270m   | 0.071 | ppbv  |          |
| 70) n-Butylbenzene            | 18.568 | 91   | 32423m   | 0.071 | ppbv  |          |
| 71) 2-Chlorotoluene           | 15.468 | 91   | 30539m   | 0.096 | ppbv  |          |
| 72) 4-Ethyltoluene            | 15.847 | 105  | 24186m   | 0.071 | ppbv  |          |
| 73) 1,3,5-Trimethylbenzene    | 16.008 | 105  | 23992m   | 0.076 | ppbv  |          |
| 74) 1,2,4-Trimethylbenzene    | 16.773 | 105  | 29348m   | 0.084 | ppbv  |          |
| 75) 1,3-Dichlorobenzene       | 17.011 | 146  | 25916m   | 0.125 | ppbv  |          |
| 76) 1,4-Dichlorobenzene       | 17.146 | 146  | 22165m   | 0.108 | ppbv  |          |
| 77) 1,2-Dichlorobenzene       | 17.841 | 146  | 23141m   | 0.113 | ppbv  |          |
| 78) Hexachloro-1,3-Butadiene  | 23.384 | 225  | 20010m   | 0.121 | ppbv  |          |
| 79) Naphthalene               | 22.227 | 128  | 13378m   | 0.056 | ppbv  |          |
| 81) 1,2,4-Trichlorobenzene    | 21.940 | 180  | 12184m   | 0.078 | ppbv  |          |

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

