

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032822\  
 Data File : VL038769.D  
 Acq On : 28 Mar 2022 13:28  
 Operator : SY/AP  
 Sample : VL0328ABS02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0328ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022  
 Supervised By : Mahesh Dadoda 03/29/2022

Quant Time: Mar 28 14:29:40 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 28 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.674  | 49   | 910773   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.182  | 114  | 2491013  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.092 | 117  | 2096869m | 10.000 | ppbv  | 0.02     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.420 95 1762066 10.961 ppbv 0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 109.600%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 3.060 | 85  | 1127886 | 9.212  | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.999 | 51  | 882198  | 9.171  | ppbv   | 99     |
| 4) Chloromethane              | 3.150 | 50  | 465536  | 8.815  | ppbv   | 99     |
| 5) Vinyl Chloride             | 3.266 | 62  | 489232  | 9.117  | ppbv   | 96     |
| 6) Bromomethane               | 3.481 | 94  | 270461  | 9.454  | ppbv   | 100    |
| 7) Chloroethane               | 3.568 | 64  | 174683  | 9.833  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 3.198 | 85  | 1158666 | 9.479  | ppbv   | 97     |
| 9) Propene                    | 3.022 | 41  | 392773  | 8.458  | ppbv   | 100    |
| 10) Heptane                   | 8.127 | 43  | 964402  | 8.687  | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 3.960 | 101 | 1095903 | 10.142 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 4.494 | 101 | 849027  | 10.207 | ppbv   | 99     |
| 13) Ethanol                   | 3.620 | 45  | 28813m  | 5.624  | ppbv   |        |
| 14) Bromoethene               | 3.748 | 108 | 387155  | 10.472 | ppbv   | 96     |
| 15) Acetone                   | 3.857 | 43  | 744714  | 9.476  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 3.340 | 39  | 422906  | 9.482  | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 4.292 | 59  | 821040  | 11.962 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 4.298 | 96  | 390203  | 10.442 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 3.970 | 45  | 421817  | 9.681  | ppbv # | 98     |
| 20) Methylene Chloride        | 4.353 | 84  | 320377  | 9.679  | ppbv   | 99     |
| 21) Allyl Chloride            | 4.420 | 41  | 588665  | 10.408 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.893 | 96  | 422399  | 10.897 | ppbv   | 95     |
| 23) Vinyl Acetate             | 5.079 | 43  | 601444  | 7.903  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 5.018 | 63  | 765204  | 10.210 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.681 | 43  | 1958088 | 9.898  | ppbv   | 98     |
| 26) Hexane                    | 5.693 | 57  | 800150  | 9.034  | ppbv   | 93     |
| 27) Carbon Disulfide          | 4.558 | 76  | 996242  | 11.466 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 5.041 | 73  | 738534  | 11.194 | ppbv   | 98     |
| 29) Chloroform                | 5.758 | 83  | 1295698 | 9.137  | ppbv   | 100    |
| 30) Cyclohexane               | 7.137 | 84  | 685047  | 8.896  | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene    | 5.555 | 61  | 802130  | 9.632  | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 6.517 | 97  | 1299143 | 9.493  | ppbv   | 99     |
| 34) 2-Butanone                | 5.250 | 43  | 887479  | 9.001  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 7.025 | 117 | 1363439 | 9.433  | ppbv   | 99     |
| 36) Benzene                   | 6.896 | 78  | 1685767 | 8.768  | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 6.314 | 62  | 888037  | 9.081  | ppbv   | 100    |
| 38) Trichloroethene           | 7.841 | 130 | 706363  | 8.771  | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.619 | 63  | 637179  | 8.478  | ppbv   | 99     |
| 40) 1,4-Dioxane               | 7.841 | 88  | 221739  | 8.496  | ppbv   | 94     |
| 41) Tetrahydrofuran           | 6.057 | 42  | 632273  | 8.616  | ppbv   | 96     |
| 42) Bromodichloromethane      | 7.796 | 83  | 1368359 | 9.332  | ppbv   | 100    |
| 43) Methyl Methacrylate       | 8.018 | 69  | 707440  | 9.911  | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 7.877 | 57  | 2697424 | 8.357  | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 9.282 | 75  | 786472  | 10.837 | ppbv   | 98     |

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 Acq On : 28 Mar 2022 13:28  
 Operator : SY/AP  
 Sample : VL0328ABS02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0328ABS01

Quant Time: Mar 28 14:29:40 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 28 2022  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022  
 Supervised By : Mahesh Dadoda 03/29/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.709  | 75   | 973176   | 9.917  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.481  | 97   | 690029   | 8.599  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.311 | 129  | 1225789  | 9.752  | ppbv   | 100      |
| 49) Bromoform                 | 13.047 | 173  | 1019274  | 9.950  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.745  | 43   | 1565822  | 8.542  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.134 | 43   | 1201782  | 9.128  | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.227 | 164  | 617869   | 8.782  | ppbv   | 97       |
| 53) Toluene                   | 9.812  | 91   | 1901521  | 9.205  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.616 | 107  | 1038403  | 9.477  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.130 | 131  | 898031   | 10.330 | ppbv # | 59       |
| 57) Chlorobenzene             | 12.153 | 112  | 1414586  | 9.354  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.716 | 91   | 2449625  | 9.993  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.999 | 91   | 4158267m | 19.392 | ppbv   |          |
| 60) o-Xylene                  | 13.696 | 91   | 1968851  | 9.670  | ppbv   | 100      |
| 61) Styrene                   | 13.532 | 104  | 1185273  | 10.735 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.671 | 105  | 3044972  | 9.948  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.683 | 83   | 1383254  | 8.771  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.564 | 120  | 820420   | 10.215 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.751 | 119  | 2708487  | 9.848  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.989 | 91   | 626321   | 12.027 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.301 | 105  | 3834309  | 9.748  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.658 | 119  | 3157459  | 9.836  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.555 | 91   | 3248134  | 9.810  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.458 | 91   | 2297253  | 10.112 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.844 | 105  | 2391980  | 9.953  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.002 | 105  | 2087954  | 9.534  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.767 | 105  | 2236703  | 9.376  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.998 | 146  | 1362620  | 8.968  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.140 | 146  | 1339754  | 8.866  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.822 | 146  | 1310988  | 8.710  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.378 | 225  | 973924m  | 7.001  | ppbv   |          |
| 79) Naphthalene               | 22.198 | 128  | 1686266  | 9.252  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.972 | 142  | 398701   | 8.158  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.927 | 180  | 968529   | 7.763  | ppbv   | 99       |

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

