

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031422\  
 Data File : VL038600.D  
 Acq On : 14 Mar 2022 17:38  
 Operator : SY/AP  
 Sample : N1645-14 0.03 LOQ  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2022

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2022  
 Supervised By :Mahesh Dadoda 03/18/2022

Quant Time: Mar 15 01:40:32 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL030822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 08 2022

QLast Update : Tue Mar 08 21:18:44 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.645  | 49   | 807105   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.147  | 114  | 1986507  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.053 | 117  | 1751202  | 10.000 | ppbv  | #-0.02   |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.384 95 1304001 9.794 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.900%

Target Compounds

|                               |        |     |       |       | Qvalue |     |
|-------------------------------|--------|-----|-------|-------|--------|-----|
| 5) Vinyl Chloride             | 3.243  | 62  | 1768m | 0.033 | ppbv   |     |
| 6) Bromomethane               | 3.468  | 94  | 431   | 0.015 | ppbv # | 6   |
| 7) Chloroethane               | 3.539  | 64  | 182   | 0.011 | ppbv # | 32  |
| 9) Propene                    | 3.002  | 41  | 919   | 0.018 | ppbv # | 1   |
| 10) Heptane                   | 8.092  | 43  | 934   | 0.008 | ppbv # | 1   |
| 11) Trichlorofluoromethane    | 3.964  | 101 | 233   | 0.002 | ppbv   | 100 |
| 16) 1,3-Butadiene             | 3.317  | 39  | 728   | 0.016 | ppbv # | 1   |
| 17) tert-Butyl alcohol        | 4.317  | 59  | 1196  | 0.019 | ppbv # | 73  |
| 22) trans-1,2-Dichloroethene  | 4.870  | 96  | 778   | 0.020 | ppbv # | 79  |
| 23) Vinyl Acetate             | 5.050  | 43  | 373   | 0.005 | ppbv # | 79  |
| 25) Ethyl Acetate             | 5.652  | 43  | 566   | 0.003 | ppbv # | 75  |
| 26) Hexane                    | 5.661  | 57  | 1687  | 0.019 | ppbv # | 1   |
| 27) Carbon Disulfide          | 4.533  | 76  | 508   | 0.006 | ppbv # | 66  |
| 28) Methyl tert-Butyl Ether   | 5.092  | 73  | 145   | 0.002 | ppbv   | 96  |
| 29) Chloroform                | 5.758  | 83  | 360   | 0.003 | ppbv   | 85  |
| 30) Cyclohexane               | 7.102  | 84  | 726   | 0.009 | ppbv # | 1   |
| 31) cis-1,2-Dichloroethene    | 5.533  | 61  | 1435  | 0.017 | ppbv # | 73  |
| 32) 1,1,1-Trichloroethane     | 6.488  | 97  | 4190m | 0.031 | ppbv   |     |
| 34) 2-Butanone                | 5.224  | 43  | 61    | 0.001 | ppbv # | 54  |
| 35) Carbon Tetrachloride      | 6.986  | 117 | 4369m | 0.032 | ppbv   |     |
| 36) Benzene                   | 6.864  | 78  | 3118  | 0.017 | ppbv # | 80  |
| 37) 1,2-Dichloroethane        | 6.282  | 62  | 1110  | 0.013 | ppbv # | 79  |
| 38) Trichloroethene           | 7.803  | 130 | 2032m | 0.028 | ppbv   |     |
| 40) 1,4-Dioxane               | 7.848  | 88  | 99    | 0.006 | ppbv # | 1   |
| 41) Tetrahydrofuran           | 6.044  | 42  | 120   | 0.003 | ppbv # | 37  |
| 43) Methyl Methacrylate       | 7.989  | 69  | 311   | 0.005 | ppbv # | 1   |
| 44) 2,2,4-Trimethylpentane    | 7.841  | 57  | 5894  | 0.019 | ppbv # | 59  |
| 45) t-1,3-Dichloropropene     | 9.243  | 75  | 223   | 0.005 | ppbv # | 41  |
| 46) cis-1,3-Dichloropropene   | 8.674  | 75  | 360   | 0.006 | ppbv # | 1   |
| 47) 1,1,2-Trichloroethane     | 9.439  | 97  | 557   | 0.008 | ppbv # | 30  |
| 48) Dibromochloromethane      | 10.269 | 129 | 796   | 0.007 | ppbv # | 10  |
| 49) Bromoform                 | 13.002 | 173 | 686   | 0.008 | ppbv # | 1   |
| 50) 4-Methyl-2-Pentanone      | 8.729  | 43  | 55    | 0.001 | ppbv # | 38  |
| 51) 2-Hexanone                | 10.140 | 43  | 130   | 0.003 | ppbv # | 28  |
| 52) Tetrachloroethene         | 11.192 | 164 | 2186m | 0.033 | ppbv   |     |
| 53) Toluene                   | 9.774  | 91  | 2052  | 0.011 | ppbv # | 7   |
| 54) 1,2-Dibromoethane         | 10.571 | 107 | 545   | 0.005 | ppbv   | 97  |
| 56) 1,1,1,2-Tetrachloroethane | 12.095 | 131 | 1207  | 0.017 | ppbv # | 1   |
| 57) Chlorobenzene             | 12.118 | 112 | 928   | 0.007 | ppbv # | 25  |
| 58) Ethyl Benzene             | 12.700 | 91  | 720   | 0.003 | ppbv   | 98  |
| 59) m/p-Xylene                | 12.960 | 91  | 1616  | 0.008 | ppbv # | 30  |
| 60) o-Xylene                  | 13.658 | 91  | 1724  | 0.009 | ppbv # | 30  |
| 61) Styrene                   | 13.484 | 104 | 419   | 0.005 | ppbv # | 1   |

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 0  
 QLast Update : Tue Mar 08 21:18:44 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/18/2022  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |    |
|-------------------------------|--------|------|----------|-------|-------|----------|----|
| -----                         |        |      |          |       |       |          |    |
| 62) Isopropylbenzene          | 14.632 | 105  | 1175     | 0.005 | ppbv  | #        | 48 |
| 63) 1,1,2,2-Tetrachloroethane | 13.658 | 83   | 5263m    | 0.034 | ppbv  |          |    |
| 64) n-propylbenzene           | 15.507 | 120  | 66       | 0.001 | ppbv  |          | 65 |
| 65) tert-Butylbenzene         | 16.699 | 119  | 500      | 0.002 | ppbv  | #        | 21 |
| 66) Benzyl Chloride           | 16.941 | 91   | 64       | 0.005 | ppbv  | #        | 1  |
| 67) sec-Butylbenzene          | 17.262 | 105  | 3563     | 0.011 | ppbv  | #        | 58 |
| 69) p-Isopropyltoluene        | 17.609 | 119  | 715      | 0.003 | ppbv  | #        | 49 |
| 70) n-Butylbenzene            | 18.503 | 91   | 304      | 0.001 | ppbv  | #        | 32 |
| 71) 2-Chlorotoluene           | 15.416 | 91   | 1837     | 0.010 | ppbv  | #        | 5  |
| 72) 4-Ethyltoluene            | 15.796 | 105  | 727      | 0.003 | ppbv  | #        | 1  |
| 73) 1,3,5-Trimethylbenzene    | 15.960 | 105  | 845      | 0.004 | ppbv  | #        | 30 |
| 74) 1,2,4-Trimethylbenzene    | 16.728 | 105  | 1942     | 0.009 | ppbv  | #        | 47 |
| 75) 1,3-Dichlorobenzene       | 16.960 | 146  | 1587     | 0.012 | ppbv  | #        | 24 |
| 76) 1,4-Dichlorobenzene       | 17.098 | 146  | 821      | 0.006 | ppbv  | #        | 23 |
| 77) 1,2-Dichlorobenzene       | 17.764 | 146  | 347      | 0.003 | ppbv  | #        | 23 |
| 78) Hexachloro-1,3-Butadiene  | 23.323 | 225  | 1038     | 0.008 | ppbv  | #        | 18 |
| 79) Naphthalene               | 22.140 | 128  | 237      | 0.001 | ppbv  | #        | 69 |
| 81) 1,2,4-Trichlorobenzene    | 21.876 | 180  | 97       | 0.001 | ppbv  | #        | 11 |
| -----                         |        |      |          |       |       |          |    |

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

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