

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041695.D  
 Acq On : 8 Nov 2024 2:18  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Quant Time: Nov 08 03:56:09 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 1076506  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.655  | 114  | 2989714  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.462 | 117  | 3013038m | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2220381 10.002 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

#### Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.735 | 85  | 1984513 | 10.200 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.681 | 51  | 1229294 | 8.764  | ppbv   | 99     |
| 4) Chloromethane              | 2.816 | 50  | 677106  | 9.114  | ppbv   | 100    |
| 5) Vinyl Chloride             | 2.925 | 62  | 650371  | 9.732  | ppbv   | 100    |
| 6) Bromomethane               | 3.121 | 94  | 294542  | 8.308  | ppbv   | 100    |
| 7) Chloroethane               | 3.202 | 64  | 237017  | 9.717  | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 2.861 | 85  | 1578222 | 9.086  | ppbv   | 99     |
| 9) Propene                    | 2.700 | 41  | 551275  | 9.020  | ppbv   | 100    |
| 10) Heptane                   | 7.578 | 43  | 1396124 | 10.194 | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 3.565 | 101 | 1573859 | 9.286  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.067 | 101 | 1152953 | 9.360  | ppbv   | 99     |
| 13) Ethanol                   | 3.256 | 45  | 17893m  | 4.781  | ppbv   |        |
| 14) Bromoethene               | 3.369 | 108 | 455827  | 9.205  | ppbv   | 98     |
| 15) Acetone                   | 3.472 | 43  | 1143751 | 8.633  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.989 | 39  | 642384  | 9.610  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 1022266 | 8.793  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 3.880 | 96  | 503432  | 9.318  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 3.578 | 45  | 551322  | 8.706  | ppbv # | 97     |
| 20) Methylene Chloride        | 3.935 | 84  | 409837  | 8.407  | ppbv   | 98     |
| 21) Allyl Chloride            | 3.999 | 41  | 803113  | 9.810  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 501680  | 9.339  | ppbv   | 99     |
| 23) Vinyl Acetate             | 4.629 | 43  | 682931  | 11.693 | ppbv   | 98     |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 1099916 | 9.173  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.205 | 43  | 2528302 | 9.219  | ppbv   | 99     |
| 26) Hexane                    | 5.211 | 57  | 1023951 | 9.718  | ppbv   | 96     |
| 27) Carbon Disulfide          | 4.124 | 76  | 1210492 | 10.226 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.584 | 73  | 578570  | 8.527  | ppbv   | 99     |
| 29) Chloroform                | 5.272 | 83  | 1619811 | 9.314  | ppbv   | 100    |
| 30) Cyclohexane               | 6.600 | 84  | 862378  | 9.613  | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 972537  | 9.595  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 1569490 | 9.892  | ppbv   | 99     |
| 34) 2-Butanone                | 4.787 | 43  | 1401455 | 9.414  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 1667580 | 10.572 | ppbv   | 98     |
| 36) Benzene                   | 6.369 | 78  | 2181352 | 9.847  | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 5.806 | 62  | 1219445 | 9.758  | ppbv   | 99     |
| 38) Trichloroethene           | 7.288 | 130 | 1235656 | 14.524 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.073 | 63  | 845320  | 9.656  | ppbv   | 97     |
| 40) 1,4-Dioxane               | 7.282 | 88  | 327544  | 10.428 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.555 | 42  | 846490  | 9.957  | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.246 | 83  | 1724577 | 9.931  | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.472 | 69  | 834601  | 10.730 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 7.324 | 57  | 3723039 | 9.922  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 8.706 | 75  | 694300  | 9.769  | ppbv   | 100    |

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Instrument :  
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 ClientSampleId :  
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Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:56:09 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.137  | 75   | 1038635  | 10.175 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 913423   | 9.641  | ppbv  | 99       |
| 48) Dibromochloromethane      | 9.706  | 129  | 1500662  | 10.419 | ppbv  | 99       |
| 49) Bromoform                 | 12.401 | 173  | 1347774  | 10.937 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.179  | 43   | 2404385  | 10.521 | ppbv  | 100      |
| 51) 2-Hexanone                | 9.545  | 43   | 1858610  | 11.168 | ppbv  | 100      |
| 52) Tetrachloroethene         | 10.613 | 164  | 802617   | 10.632 | ppbv  | 99       |
| 53) Toluene                   | 9.217  | 91   | 2513473  | 10.790 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.005 | 107  | 1195844  | 10.803 | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 11.504 | 131  | 1133444  | 9.121  | ppbv  | 99       |
| 57) Chlorobenzene             | 11.523 | 112  | 2010706  | 9.023  | ppbv  | 97       |
| 58) Ethyl Benzene             | 12.085 | 91   | 3433522  | 10.395 | ppbv  | 98       |
| 59) m/p-Xylene                | 12.368 | 91   | 5958318m | 20.143 | ppbv  |          |
| 60) o-Xylene                  | 13.053 | 91   | 2871187  | 10.179 | ppbv  | 100      |
| 61) Styrene                   | 12.893 | 104  | 1358389  | 11.668 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.024 | 105  | 4158014  | 9.545  | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.044 | 83   | 1152470  | 5.554  | ppbv  | 99       |
| 64) n-propylbenzene           | 14.912 | 120  | 1114366  | 9.772  | ppbv  | 98       |
| 65) tert-Butylbenzene         | 16.082 | 119  | 3735121  | 9.540  | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.320 | 91   | 186790m  | 6.202  | ppbv  |          |
| 67) sec-Butylbenzene          | 16.629 | 105  | 5261018  | 9.534  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 16.989 | 119  | 4374045  | 9.804  | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.879 | 91   | 4522936  | 9.909  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 3143905  | 9.984  | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 3404290  | 10.381 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.346 | 105  | 2938945  | 10.213 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.101 | 105  | 3269887  | 9.782  | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 2024223  | 9.778  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 16.468 | 146  | 1944656  | 9.736  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.134 | 146  | 1958590  | 9.550  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.625 | 225  | 1354982  | 8.354  | ppbv  | 98       |
| 79) Naphthalene               | 21.378 | 128  | 2620569  | 12.701 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.371 | 142  | 1155769  | 25.697 | ppbv  | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.133 | 180  | 1348543  | 10.393 | ppbv  | 100      |

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

