

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL102122\  
 Data File : VL039756.D  
 Acq On : 21 Oct 2022 23:20  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/24/2022  
 Supervised By : Mahesh Dadoda 10/24/2022

Quant Time: Oct 22 02:39:50 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL102122AIR.M

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

QLast Update : Sat Oct 22 02:12:34 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 889474   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.652  | 114  | 2727459  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.458 | 117  | 2439120m | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.761 95 1819213 10.507 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.100%

Target Compounds

|                               |       |     |         |        | Qvalue    |
|-------------------------------|-------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane    | 2.739 | 85  | 965409m | 6.482  | ppbv      |
| 3) Chlorodifluoromethane      | 2.684 | 51  | 1161112 | 10.246 | ppbv 99   |
| 4) Chloromethane              | 2.825 | 50  | 724562  | 10.218 | ppbv 97   |
| 5) Vinyl Chloride             | 2.931 | 62  | 621030  | 11.156 | ppbv 94   |
| 6) Bromomethane               | 3.131 | 94  | 211185  | 10.244 | ppbv 96   |
| 7) Chloroethane               | 3.208 | 64  | 214955  | 10.419 | ppbv 98   |
| 8) Dichlorotetrafluoroethane  | 2.867 | 85  | 1328381 | 9.613  | ppbv 98   |
| 9) Propene                    | 2.700 | 41  | 557335  | 10.770 | ppbv 99   |
| 10) Heptane                   | 7.571 | 43  | 1358165 | 11.310 | ppbv 100  |
| 11) Trichlorofluoromethane    | 3.571 | 101 | 1405751 | 10.139 | ppbv 100  |
| 12) 1,1,2-Trichlorotrifluo... | 4.073 | 101 | 1065222 | 9.551  | ppbv 97   |
| 13) Ethanol                   | 3.256 | 45  | 39650m  | 11.246 | ppbv      |
| 14) Bromoethene               | 3.375 | 108 | 441260  | 10.386 | ppbv 96   |
| 15) Acetone                   | 3.478 | 43  | 1052068 | 9.796  | ppbv 99   |
| 16) 1,3-Butadiene             | 2.996 | 39  | 580066  | 10.761 | ppbv 96   |
| 17) tert-Butyl alcohol        | 3.886 | 59  | 1049450 | 11.502 | ppbv 100  |
| 18) 1,1-Dichloroethene        | 3.890 | 96  | 489495  | 10.228 | ppbv 94   |
| 19) Isopropyl Alcohol         | 3.581 | 45  | 568361  | 10.836 | ppbv 98   |
| 20) Methylene Chloride        | 3.941 | 84  | 402200  | 9.315  | ppbv 96   |
| 21) Allyl Chloride            | 4.002 | 41  | 773645  | 10.437 | ppbv 97   |
| 22) trans-1,2-Dichloroethene  | 4.449 | 96  | 507471  | 10.444 | ppbv 99   |
| 23) Vinyl Acetate             | 4.629 | 43  | 449584  | 9.921  | ppbv # 98 |
| 24) 1,1-Dichloroethane        | 4.568 | 63  | 1070744 | 10.364 | ppbv 99   |
| 25) Ethyl Acetate             | 5.208 | 43  | 2089167 | 9.710  | ppbv 98   |
| 26) Hexane                    | 5.214 | 57  | 841590  | 9.604  | ppbv 99   |
| 27) Carbon Disulfide          | 4.131 | 76  | 1261323 | 11.495 | ppbv 99   |
| 28) Methyl tert-Butyl Ether   | 4.591 | 73  | 837737  | 10.081 | ppbv 99   |
| 29) Chloroform                | 5.275 | 83  | 1177635 | 8.383  | ppbv 99   |
| 30) Cyclohexane               | 6.597 | 84  | 818906  | 11.116 | ppbv 100  |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 834707  | 10.622 | ppbv 96   |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 1434196 | 11.771 | ppbv 98   |
| 34) 2-Butanone                | 4.790 | 43  | 1217929 | 9.681  | ppbv 100  |
| 35) Carbon Tetrachloride      | 6.488 | 117 | 1524370 | 10.784 | ppbv 97   |
| 36) Benzene                   | 6.365 | 78  | 2124521 | 10.321 | ppbv 99   |
| 37) 1,2-Dichloroethane        | 5.806 | 62  | 1134361 | 10.230 | ppbv 100  |
| 38) Trichloroethene           | 7.285 | 130 | 1213880 | 10.995 | ppbv 96   |
| 39) 1,2-Dichloropropane       | 7.070 | 63  | 785396  | 9.947  | ppbv 97   |
| 40) 1,4-Dioxane               | 7.285 | 88  | 272286  | 9.002  | ppbv # 91 |
| 41) Tetrahydrofuran           | 5.558 | 42  | 827815  | 10.263 | ppbv 98   |
| 42) Bromodichloromethane      | 7.240 | 83  | 1605489 | 10.543 | ppbv 97   |
| 43) Methyl Methacrylate       | 7.471 | 69  | 821289  | 11.091 | ppbv 100  |
| 44) 2,2,4-Trimethylpentane    | 7.320 | 57  | 3540689 | 10.152 | ppbv 100  |
| 45) t-1,3-Dichloropropene     | 8.703 | 75  | 759492  | 12.391 | ppbv 95   |

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Quant Time: Oct 22 02:39:50 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL102122AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Sat Oct 22 02:12:34 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.134  | 75   | 1052137  | 12.118 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.893  | 97   | 860077   | 10.030 | ppbv   | 97       |
| 48) Dibromochloromethane      | 9.700  | 129  | 1420606  | 10.981 | ppbv   | 99       |
| 49) Bromoform                 | 12.394 | 173  | 1195899  | 11.483 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.176  | 43   | 2206128  | 10.755 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.542  | 43   | 1692243  | 11.510 | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.610 | 164  | 782623m  | 10.533 | ppbv   |          |
| 53) Toluene                   | 9.214  | 91   | 2450698  | 11.026 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 9.995  | 107  | 982364   | 11.392 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 11.494 | 131  | 1028132  | 10.386 | ppbv   | 96       |
| 57) Chlorobenzene             | 11.516 | 112  | 1842109  | 10.294 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.076 | 91   | 3199053  | 11.356 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.365 | 91   | 5444768m | 21.867 | ppbv   |          |
| 60) o-Xylene                  | 13.050 | 91   | 2607487  | 10.947 | ppbv   | 99       |
| 61) Styrene                   | 12.886 | 104  | 1555048  | 12.478 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.018 | 105  | 3771642  | 10.631 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.034 | 83   | 924132   | 10.152 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.905 | 120  | 976746   | 10.958 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.079 | 119  | 3297730  | 10.610 | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.314 | 91   | 240932   | 11.094 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.622 | 105  | 4585391  | 10.664 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.986 | 119  | 3806408  | 10.984 | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.876 | 91   | 3727638  | 11.178 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.786 | 91   | 2767363  | 10.961 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.182 | 105  | 2996629  | 11.272 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.339 | 105  | 2703537  | 10.924 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.095 | 105  | 2876351  | 10.580 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 16.317 | 146  | 1695611  | 10.415 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.461 | 146  | 1610376  | 10.125 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.130 | 146  | 1605722  | 10.148 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.616 | 225  | 1038639  | 9.084  | ppbv   | 98       |
| 79) Naphthalene               | 21.368 | 128  | 1985941  | 12.478 | ppbv   | 96       |
| 80) Naphthalene,2-methyl-     | 24.365 | 142  | 762207   | 16.037 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.127 | 180  | 1135398  | 10.647 | ppbv # | 100      |

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

