

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072522\  
 Data File : VL039534.D  
 Acq On : 26 Jul 2022 7:51  
 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 07/26/2022  
 Supervised By : Mahesh Dadoda 07/26/2022

Quant Time: Jul 26 08:37:40 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

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

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.664  | 49   | 992115   | 10.000 | ppbv  | 0.01     |
| 33) 1,4-Difluorobenzene | 7.172  | 114  | 2732613  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.079 | 117  | 2629983m | 10.000 | ppbv  | 0.01     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.407 95 1985066 10.174 ppbv 0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 3.050 | 85  | 924554  | 6.461  | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.989 | 51  | 1250860 | 9.938  | ppbv   | 99     |
| 4) Chloromethane              | 3.140 | 50  | 717460  | 10.422 | ppbv   | 99     |
| 5) Vinyl Chloride             | 3.259 | 62  | 651744  | 9.601  | ppbv   | 99     |
| 6) Bromomethane               | 3.475 | 94  | 297486  | 10.413 | ppbv   | 95     |
| 7) Chloroethane               | 3.558 | 64  | 247872  | 10.266 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 3.189 | 85  | 1438364 | 9.201  | ppbv   | 96     |
| 9) Propene                    | 3.012 | 41  | 546874  | 9.621  | ppbv   | 99     |
| 10) Heptane                   | 8.118 | 43  | 1443865 | 10.845 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.951 | 101 | 1669581 | 10.470 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 4.484 | 101 | 1221686 | 10.277 | ppbv   | 100    |
| 13) Ethanol                   | 3.603 | 45  | 40304m  | 12.221 | ppbv   |        |
| 14) Bromoethene               | 3.742 | 108 | 517054  | 10.346 | ppbv   | 100    |
| 15) Acetone                   | 3.848 | 43  | 1228660 | 10.468 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 3.330 | 39  | 664434  | 10.910 | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 4.285 | 59  | 1129044 | 11.333 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 4.288 | 96  | 546667  | 10.151 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 3.960 | 45  | 665745  | 10.634 | ppbv # | 96     |
| 20) Methylene Chloride        | 4.343 | 84  | 496998  | 10.623 | ppbv   | 98     |
| 21) Allyl Chloride            | 4.414 | 41  | 851510  | 10.474 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 4.883 | 96  | 564117  | 10.821 | ppbv   | 96     |
| 23) Vinyl Acetate             | 5.070 | 43  | 833406  | 10.625 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 5.009 | 63  | 1152147 | 10.400 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.674 | 43  | 2643352 | 10.983 | ppbv   | 99     |
| 26) Hexane                    | 5.684 | 57  | 1125636 | 11.603 | ppbv   | 99     |
| 27) Carbon Disulfide          | 4.549 | 76  | 1337184 | 11.419 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 5.034 | 73  | 1028273 | 9.913  | ppbv   | 99     |
| 29) Chloroform                | 5.751 | 83  | 1792525 | 10.626 | ppbv   | 97     |
| 30) Cyclohexane               | 7.124 | 84  | 948898  | 10.744 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 5.545 | 61  | 1092442 | 10.613 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.507 | 97  | 1794545 | 10.778 | ppbv   | 100    |
| 34) 2-Butanone                | 5.240 | 43  | 1546955 | 11.246 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 7.015 | 117 | 1907308 | 11.296 | ppbv   | 98     |
| 36) Benzene                   | 6.890 | 78  | 2291734 | 10.836 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 6.304 | 62  | 1349913 | 10.814 | ppbv   | 100    |
| 38) Trichloroethene           | 7.828 | 130 | 1263722 | 11.048 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.607 | 63  | 848720  | 10.742 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 7.828 | 88  | 348848  | 11.080 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 6.044 | 42  | 878859  | 11.025 | ppbv   | 100    |
| 42) Bromodichloromethane      | 7.787 | 83  | 1906722 | 11.328 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 8.008 | 69  | 934925  | 11.626 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.864 | 57  | 3864002 | 10.781 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 9.272 | 75  | 933482  | 13.038 | ppbv   | 98     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072522\  
 Data File : VL039534.D  
 Acq On : 26 Jul 2022 7:51  
 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 07/26/2022  
 Supervised By : Mahesh Dadoda 07/26/2022

Quant Time: Jul 26 08:37:40 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

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.700  | 75   | 1216321  | 12.342 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 9.471  | 97   | 975255   | 11.001 | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.298 | 129  | 1697090  | 12.045 | ppbv  | 99       |
| 49) Bromoform                 | 13.034 | 173  | 1418361  | 12.478 | ppbv  | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.735  | 43   | 2436415  | 11.714 | ppbv  | 98       |
| 51) 2-Hexanone                | 10.124 | 43   | 1901139  | 12.084 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.217 | 164  | 908643   | 10.673 | ppbv  | 97       |
| 53) Toluene                   | 9.799  | 91   | 2795284  | 11.458 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.606 | 107  | 1285569  | 11.654 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.121 | 131  | 1261279  | 10.856 | ppbv  | 96       |
| 57) Chlorobenzene             | 12.140 | 112  | 2163770  | 10.612 | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.703 | 91   | 3751062  | 11.046 | ppbv  | 99       |
| 59) m/p-Xylene                | 12.989 | 91   | 6471079m | 21.614 | ppbv  |          |
| 60) o-Xylene                  | 13.687 | 91   | 3101175  | 10.939 | ppbv  | 100      |
| 61) Styrene                   | 13.519 | 104  | 1829309  | 11.912 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.661 | 105  | 4587698  | 10.626 | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.671 | 83   | 1481036  | 9.967  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.552 | 120  | 1209841  | 11.056 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.738 | 119  | 4212224  | 10.558 | ppbv  | 99       |
| 66) Benzyl Chloride           | 16.976 | 91   | 452713   | 11.941 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 17.285 | 105  | 5805185  | 10.803 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.645 | 119  | 4991567  | 10.948 | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.539 | 91   | 4873434  | 11.012 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.445 | 91   | 3387377  | 10.963 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.831 | 105  | 3759591  | 11.279 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.989 | 105  | 3401377  | 11.111 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.754 | 105  | 3703199  | 10.935 | ppbv  | 95       |
| 75) 1,3-Dichlorobenzene       | 16.989 | 146  | 2174982  | 10.766 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.127 | 146  | 2133021  | 10.653 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.805 | 146  | 2139542  | 10.685 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.365 | 225  | 1502866  | 9.332  | ppbv  | 99       |
| 79) Naphthalene               | 22.182 | 128  | 2889154  | 12.396 | ppbv  | 98       |
| 80) Naphthalene,2-methyl-     | 24.960 | 142  | 1003325  | 12.648 | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.915 | 180  | 1663006  | 10.955 | ppbv  | 98       |

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

## Manual Integrations

Quant Time: Jul 26 08:37:40 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul  
QLast Update : Wed Jul 06 02:15:38 2022  
Response via : Initial Calibration

