

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091922\  
 Data File : VL039627.D  
 Acq On : 19 Sep 2022 9:04  
 Operator : SY/AP  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/21/2022  
 Supervised By :Mahesh Dadoda 09/21/2022

Quant Time: Sep 19 11:14:58 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 19 2022

QLast Update : Fri Aug 26 06:05:16 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.205  | 49   | 1184127  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.664  | 114  | 3115798  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.475 | 117  | 3014550m | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2291326 10.075 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.751 | 85  | 1126044 | 7.146  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.697 | 51  | 1234062 | 8.747  | ppbv   | 97     |
| 4) Chloromethane              | 2.832 | 50  | 755688  | 8.893  | ppbv   | 98     |
| 5) Vinyl Chloride             | 2.941 | 62  | 663959  | 9.681  | ppbv   | 97     |
| 6) Bromomethane               | 3.141 | 94  | 239545  | 8.236  | ppbv   | 95     |
| 7) Chloroethane               | 3.218 | 64  | 249011  | 9.691  | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 2.877 | 85  | 1502005 | 8.910  | ppbv   | 94     |
| 9) Propene                    | 2.716 | 41  | 584911  | 9.061  | ppbv   | 100    |
| 10) Heptane                   | 7.587 | 43  | 1447501 | 9.682  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.584 | 101 | 1530902 | 8.852  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.086 | 101 | 1125899 | 8.802  | ppbv   | 98     |
| 13) Ethanol                   | 3.263 | 45  | 40399   | 8.708  | ppbv   | 72     |
| 14) Bromoethene               | 3.388 | 108 | 483997  | 9.261  | ppbv   | 98     |
| 15) Acetone                   | 3.488 | 43  | 1146923 | 8.647  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 3.005 | 39  | 640722  | 9.257  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 3.896 | 59  | 1199544 | 10.596 | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 3.896 | 96  | 522481  | 9.069  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.591 | 45  | 646998  | 10.027 | ppbv # | 97     |
| 20) Methylene Chloride        | 3.951 | 84  | 439251  | 8.151  | ppbv   | 96     |
| 21) Allyl Chloride            | 4.015 | 41  | 822451  | 9.532  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.462 | 96  | 534558  | 9.329  | ppbv   | 93     |
| 23) Vinyl Acetate             | 4.642 | 43  | 553090  | 8.769  | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 4.581 | 63  | 1095589 | 9.385  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.221 | 43  | 2591791 | 9.132  | ppbv   | 99     |
| 26) Hexane                    | 5.227 | 57  | 1078491 | 9.310  | ppbv   | 97     |
| 27) Carbon Disulfide          | 4.140 | 76  | 1324019 | 10.699 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 4.603 | 73  | 958694  | 9.594  | ppbv   | 99     |
| 29) Chloroform                | 5.288 | 83  | 1592277 | 8.789  | ppbv   | 97     |
| 30) Cyclohexane               | 6.613 | 84  | 897087  | 9.352  | ppbv   | 93     |
| 31) cis-1,2-Dichloroethene    | 5.092 | 61  | 1061385 | 9.460  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.018 | 97  | 1578536 | 9.904  | ppbv   | 99     |
| 34) 2-Butanone                | 4.803 | 43  | 1316659 | 8.500  | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 6.504 | 117 | 1632559 | 9.693  | ppbv   | 100    |
| 36) Benzene                   | 6.382 | 78  | 2252442 | 9.484  | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 5.819 | 62  | 1213931 | 9.279  | ppbv   | 100    |
| 38) Trichloroethene           | 7.301 | 130 | 1278573 | 10.047 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.082 | 63  | 862523  | 9.659  | ppbv   | 95     |
| 40) 1,4-Dioxane               | 7.301 | 88  | 311078  | 8.898  | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.571 | 42  | 958817  | 10.362 | ppbv   | 95     |
| 42) Bromodichloromethane      | 7.256 | 83  | 1733917 | 9.685  | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.488 | 69  | 892618  | 10.422 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 7.336 | 57  | 3803681 | 9.500  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 8.719 | 75  | 865012  | 11.597 | ppbv   | 100    |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2022

QLast Update : Fri Aug 26 06:05:16 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.150  | 75   | 1170581  | 11.331 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 8.906  | 97   | 925690   | 9.077  | ppbv  | 97       |
| 48) Dibromochloromethane      | 9.716  | 129  | 1564053  | 10.404 | ppbv  | 100      |
| 49) Bromoform                 | 12.413 | 173  | 1323671  | 10.630 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.192  | 43   | 2402713  | 9.956  | ppbv  | 99       |
| 51) 2-Hexanone                | 9.561  | 43   | 1882765  | 10.600 | ppbv  | 99       |
| 52) Tetrachloroethene         | 10.623 | 164  | 843377   | 9.386  | ppbv  | 98       |
| 53) Toluene                   | 9.227  | 91   | 2678403  | 10.076 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.015 | 107  | 1094906  | 9.599  | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.516 | 131  | 1124407  | 9.180  | ppbv  | 97       |
| 57) Chlorobenzene             | 11.536 | 112  | 2012125  | 8.947  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.098 | 91   | 3492719  | 10.084 | ppbv  | 96       |
| 59) m/p-Xylene                | 12.381 | 91   | 5884815m | 18.939 | ppbv  |          |
| 60) o-Xylene                  | 13.069 | 91   | 2833970  | 9.502  | ppbv  | 100      |
| 61) Styrene                   | 12.905 | 104  | 1718664  | 10.819 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.037 | 105  | 4120955  | 9.137  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.053 | 83   | 1076744  | 7.623  | ppbv  | 100      |
| 64) n-propylbenzene           | 14.925 | 120  | 1066606  | 9.099  | ppbv  | 95       |
| 65) tert-Butylbenzene         | 16.098 | 119  | 3619797  | 9.029  | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.330 | 91   | 327829m  | 10.066 | ppbv  |          |
| 67) sec-Butylbenzene          | 16.645 | 105  | 5047274  | 8.888  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.005 | 119  | 4230781  | 8.975  | ppbv  | 99       |
| 70) n-Butylbenzene            | 17.892 | 91   | 4152396  | 8.854  | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 14.809 | 91   | 3036997  | 9.297  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.201 | 105  | 3330688  | 9.550  | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.359 | 105  | 2941128  | 9.228  | ppbv  | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.117 | 105  | 3179826  | 8.954  | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 16.339 | 146  | 1894684  | 8.775  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 16.481 | 146  | 1807073  | 8.401  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.150 | 146  | 1825921  | 8.636  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.641 | 225  | 1245122  | 7.395  | ppbv  | 99       |
| 79) Naphthalene               | 21.387 | 128  | 2502981  | 9.897  | ppbv  | 98       |
| 80) Naphthalene,2-methyl-     | 24.384 | 142  | 862758   | 8.405  | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 1414178  | 8.374  | ppbv  | 98       |

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

