

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL120122\  
 Data File : VL039939.D  
 Acq On : 1 Dec 2022 12:56  
 Operator : SY/MD  
 Sample : VL1201ABS02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1201ABS02

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2022  
 Supervised By : Mahesh Dadoda 12/05/2022

Quant Time: Dec 02 05:31:39 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111822AIR.M

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

QLast Update : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.169  | 49   | 1121718  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.632  | 114  | 3145190  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.452 | 117  | 2891680  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.761 95 2238311 10.134 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.706 | 85  | 1687570 | 10.505 | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 2.652 | 51  | 1355430 | 8.757  | ppbv   | 97     |
| 4) Chloromethane              | 2.790 | 50  | 851372  | 8.607  | ppbv   | 95     |
| 5) Vinyl Chloride             | 2.896 | 62  | 751461  | 9.722  | ppbv   | 98     |
| 6) Bromomethane               | 3.095 | 94  | 255717  | 9.699  | ppbv   | 97     |
| 7) Chloroethane               | 3.173 | 64  | 273715  | 8.959  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 2.832 | 85  | 1776994 | 9.687  | ppbv   | 98     |
| 9) Propene                    | 2.668 | 41  | 618239  | 8.479  | ppbv   | 99     |
| 10) Heptane                   | 7.561 | 43  | 1555640 | 8.842  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.539 | 101 | 1874463 | 9.566  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.044 | 101 | 1379671 | 9.303  | ppbv   | 98     |
| 13) Ethanol                   | 3.224 | 45  | 46755m  | 8.399  | ppbv   |        |
| 14) Bromoethene               | 3.343 | 108 | 573635  | 9.918  | ppbv   | 98     |
| 15) Acetone                   | 3.443 | 43  | 1306258 | 8.780  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.960 | 39  | 697814  | 9.411  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 3.854 | 59  | 1459622 | 8.533  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.857 | 96  | 627311  | 9.273  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.552 | 45  | 753858  | 9.358  | ppbv # | 32     |
| 20) Methylene Chloride        | 3.906 | 84  | 524888  | 7.282  | ppbv   | 94     |
| 21) Allyl Chloride            | 3.973 | 41  | 934423  | 9.054  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.423 | 96  | 657663  | 9.559  | ppbv   | 96     |
| 23) Vinyl Acetate             | 4.603 | 43  | 536995  | 8.785  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 4.539 | 63  | 1320944 | 8.963  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.182 | 43  | 2734524 | 10.010 | ppbv   | 99     |
| 26) Hexane                    | 5.192 | 57  | 1167515 | 9.784  | ppbv   | 99     |
| 27) Carbon Disulfide          | 4.102 | 76  | 1593103 | 10.574 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.562 | 73  | 1281631 | 8.578  | ppbv   | 99     |
| 29) Chloroform                | 5.253 | 83  | 1927598 | 12.155 | ppbv   | 99     |
| 30) Cyclohexane               | 6.581 | 84  | 1036573 | 8.851  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 5.057 | 61  | 1035108 | 9.389  | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 5.983 | 97  | 2007267 | 10.135 | ppbv   | 98     |
| 34) 2-Butanone                | 4.764 | 43  | 1468108 | 9.755  | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 6.471 | 117 | 2067910 | 11.577 | ppbv   | 99     |
| 36) Benzene                   | 6.349 | 78  | 2618597 | 9.795  | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.783 | 62  | 1523294 | 10.398 | ppbv   | 99     |
| 38) Trichloroethene           | 7.272 | 130 | 1499679 | 10.035 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.053 | 63  | 993519  | 9.539  | ppbv   | 97     |
| 40) 1,4-Dioxane               | 7.266 | 88  | 436268  | 10.514 | ppbv   | 79     |
| 41) Tetrahydrofuran           | 5.533 | 42  | 1022688 | 9.843  | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.230 | 83  | 2196930 | 11.057 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 7.455 | 69  | 1050983 | 10.027 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 7.307 | 57  | 4185689 | 9.379  | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.693 | 75  | 1053273 | 10.877 | ppbv   | 97     |

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

QLast Update : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.124  | 75   | 1382622  | 10.307 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.880  | 97   | 1095370  | 10.233 | ppbv   | 99       |
| 48) Dibromochloromethane      | 9.693  | 129  | 1848395  | 11.789 | ppbv   | 100      |
| 49) Bromoform                 | 12.391 | 173  | 1464798  | 11.541 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.163  | 43   | 2628401  | 9.752  | ppbv   | 99       |
| 51) 2-Hexanone                | 9.536  | 43   | 2099448  | 10.034 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.600 | 164  | 914943   | 9.148  | ppbv   | 94       |
| 53) Toluene                   | 9.201  | 91   | 3016502  | 9.905  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 9.989  | 107  | 1279761  | 11.203 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 11.494 | 131  | 1299308  | 10.992 | ppbv   | 99       |
| 57) Chlorobenzene             | 11.513 | 112  | 2290168  | 10.358 | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.073 | 91   | 4066137  | 10.365 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.359 | 91   | 6839762m | 20.831 | ppbv   |          |
| 60) o-Xylene                  | 13.044 | 91   | 3255384  | 10.397 | ppbv   | 98       |
| 61) Styrene                   | 12.886 | 104  | 1994135  | 10.669 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.015 | 105  | 4651050  | 10.300 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.037 | 83   | 1123939  | 10.750 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.899 | 120  | 1230708  | 10.419 | ppbv   | 93       |
| 65) tert-Butylbenzene         | 16.076 | 119  | 4057125  | 10.271 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.317 | 91   | 331017   | 9.779  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 16.622 | 105  | 5612121  | 10.333 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 16.979 | 119  | 4612496  | 10.309 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.873 | 91   | 4700036  | 10.596 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 14.786 | 91   | 3566281  | 10.420 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.179 | 105  | 3790891  | 10.771 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.339 | 105  | 3345089  | 10.382 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.095 | 105  | 3569690  | 10.465 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.320 | 146  | 2023093  | 10.541 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.458 | 146  | 1968844  | 10.348 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.127 | 146  | 1908147  | 10.313 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.619 | 225  | 1127601  | 8.783  | ppbv   | 99       |
| 79) Naphthalene               | 21.365 | 128  | 2259933m | 11.070 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.361 | 142  | 670609   | 11.679 | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.124 | 180  | 1243888  | 9.866  | ppbv   | 98       |

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

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