

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041675.D  
 Acq On : 7 Nov 2024 10:55  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Nov 08 00:09:49 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 00:07:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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   | 5.185  | 49   | 1208732  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3351063  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.462 | 117  | 3155486  | 10.000 | ppbv  | # 0.00   |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2278471  | 9.764    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.600% |

|                               |       |     |        |        |      |      |
|-------------------------------|-------|-----|--------|--------|------|------|
| Target Compounds              |       |     |        | Qvalue |      |      |
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 514444 | 2.355  | ppbv | 97   |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 328832 | 2.088  | ppbv | 99   |
| 4) Chloromethane              | 2.806 | 50  | 174215 | 2.088  | ppbv | 98   |
| 5) Vinyl Chloride             | 2.915 | 62  | 164345 | 2.174  | ppbv | 95   |
| 6) Bromomethane               | 3.115 | 94  | 83930  | 2.108  | ppbv | 95   |
| 7) Chloroethane               | 3.192 | 64  | 56344  | 2.057  | ppbv | 95   |
| 8) Dichlorotetrafluoroethane  | 2.851 | 85  | 407437 | 2.089  | ppbv | 100  |
| 9) Propene                    | 2.690 | 41  | 145858 | 2.125  | ppbv | 96   |
| 10) Heptane                   | 7.574 | 43  | 329781 | 2.145  | ppbv | 100  |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 404483 | 2.126  | ppbv | 96   |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 293463 | 2.122  | ppbv | 100  |
| 13) Ethanol                   | 3.253 | 45  | 11047m | 2.588  | ppbv |      |
| 14) Bromoethene               | 3.362 | 108 | 115140 | 2.071  | ppbv | 97   |
| 15) Acetone                   | 3.468 | 43  | 325763 | 2.190  | ppbv | 98   |
| 16) 1,3-Butadiene             | 2.980 | 39  | 166496 | 2.232  | ppbv | 100  |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 250452 | 1.919  | ppbv | 100  |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 125850 | 2.075  | ppbv | 97   |
| 19) Isopropyl Alcohol         | 3.581 | 45  | 145112 | 2.015  | ppbv | # 98 |
| 20) Methylene Chloride        | 3.928 | 84  | 107956 | 1.972  | ppbv | 95   |
| 21) Allyl Chloride            | 3.992 | 41  | 188103 | 2.046  | ppbv | 93   |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 127951 | 2.114  | ppbv | 97   |
| 23) Vinyl Acetate             | 4.623 | 43  | 146592 | 2.095  | ppbv | 99   |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 311096 | 2.311  | ppbv | 99   |
| 25) Ethyl Acetate             | 5.201 | 43  | 648134 | 2.105  | ppbv | 99   |
| 26) Hexane                    | 5.205 | 57  | 247802 | 2.095  | ppbv | 93   |
| 27) Carbon Disulfide          | 4.121 | 76  | 275871 | 2.076  | ppbv | # 92 |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 178647 | 2.345  | ppbv | 100  |
| 29) Chloroform                | 5.269 | 83  | 397794 | 2.037  | ppbv | 98   |
| 30) Cyclohexane               | 6.594 | 84  | 205987 | 2.167  | ppbv | 95   |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 231792 | 2.037  | ppbv | 95   |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 391289 | 2.186  | ppbv | 99   |
| 34) 2-Butanone                | 4.783 | 43  | 351257 | 2.105  | ppbv | 97   |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 399871 | 2.257  | ppbv | 99   |
| 36) Benzene                   | 6.368 | 78  | 538471 | 2.169  | ppbv | 96   |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 291330 | 2.080  | ppbv | 100  |
| 38) Trichloroethene           | 7.285 | 130 | 214170 | 2.237  | ppbv | 96   |
| 39) 1,2-Dichloropropane       | 7.069 | 63  | 206245 | 2.102  | ppbv | 97   |
| 40) 1,4-Dioxane               | 7.291 | 88  | 82194m | 2.365  | ppbv |      |
| 41) Tetrahydrofuran           | 5.561 | 42  | 206889 | 2.173  | ppbv | 99   |
| 42) Bromodichloromethane      | 7.243 | 83  | 411846 | 2.116  | ppbv | 100  |
| 43) Methyl Methacrylate       | 7.471 | 69  | 186557 | 2.140  | ppbv | 95   |
| 44) 2,2,4-Trimethylpentane    | 7.323 | 57  | 932386 | 2.217  | ppbv | 99   |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 150360 | 1.929  | ppbv | 97   |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041675.D  
 Acq On : 7 Nov 2024 10:55  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

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

Quant Time: Nov 08 00:09:49 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 00:07:44 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.137  | 75   | 234294   | 2.069 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.899  | 97   | 218012m  | 2.061 | ppbv   |          |
| 48) Dibromochloromethane      | 9.703  | 129  | 342372   | 2.121 | ppbv   | 99       |
| 49) Bromoform                 | 12.404 | 173  | 286412   | 2.080 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.185  | 43   | 563317   | 2.198 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.558  | 43   | 402751   | 2.163 | ppbv   | 97       |
| 52) Tetrachloroethene         | 10.616 | 164  | 191108m  | 2.252 | ppbv   |          |
| 53) Toluene                   | 9.220  | 91   | 564332   | 2.161 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.005 | 107  | 279460   | 2.262 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 279872   | 2.130 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.519 | 112  | 500524   | 2.128 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.085 | 91   | 777614   | 2.225 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.368 | 91   | 1403331m | 4.488 | ppbv   |          |
| 60) o-Xylene                  | 13.053 | 91   | 674003   | 2.258 | ppbv   | 98       |
| 61) Styrene                   | 12.892 | 104  | 262837   | 2.133 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.024 | 105  | 1030511  | 2.236 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.043 | 83   | 488021   | 2.245 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.915 | 120  | 271271   | 2.251 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.085 | 119  | 948395   | 2.290 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.326 | 91   | 61799m   | 2.072 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.632 | 105  | 1349679  | 2.312 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.992 | 119  | 1097205  | 2.324 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.886 | 91   | 1109618  | 2.293 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 745884   | 2.238 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 777952   | 2.244 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.346 | 105  | 691387   | 2.274 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 16.101 | 105  | 796450   | 2.252 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.329 | 146  | 473241   | 2.167 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 448788   | 2.091 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.140 | 146  | 466190   | 2.149 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.628 | 225  | 367865   | 2.144 | ppbv   | 99       |
| 79) Naphthalene               | 21.387 | 128  | 538842   | 2.478 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 24.381 | 142  | 101409   | 2.513 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 287687   | 2.127 | ppbv   | 99       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041675.D  
Acq On : 7 Nov 2024 10:55  
Operator : SY/MD  
Sample : VSTDICC002  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Manual Integrations  
APPROVED

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

Quant Time: Nov 08 00:09:49 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

