

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050924\  
 Data File : VL041253.D  
 Acq On : 9 May 2024 11:28  
 Operator : SY/MD  
 Sample : P2403-15 MDL 0.45  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2024

Quant Time: May 10 01:25:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M

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

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/10/2024  
 Supervised By : Mahesh Dadoda 05/10/2024

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 5.208  | 49    | 752281   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.668  | 114   | 2045422  | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 11.478 | 117   | 1886193  | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.790 | 95    | 1463725  | 10.279   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 102.800% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 2.745  | 85    | 72124    | 0.709    | ppbv       | 98       |
| 3) Chlorodifluoromethane      | 2.694  | 51    | 61346    | 0.537    | ppbv       | 95       |
| 4) Chloromethane              | 2.832  | 50    | 23221    | 0.518    | ppbv       | 99       |
| 5) Vinyl Chloride             | 2.935  | 62    | 22610    | 0.502    | ppbv       | 93       |
| 6) Bromomethane               | 3.140  | 94    | 9192     | 0.559    | ppbv       | 88       |
| 7) Chloroethane               | 3.211  | 64    | 8322     | 0.523    | ppbv #     | 85       |
| 8) Dichlorotetrafluoroethane  | 2.874  | 85    | 56178    | 0.533    | ppbv       | 95       |
| 9) Propene                    | 2.713  | 41    | 21366    | 0.478    | ppbv       | 94       |
| 10) Heptane                   | 7.597  | 43    | 48672m   | 0.449    | ppbv       |          |
| 11) Trichlorofluoromethane    | 3.581  | 101   | 56996    | 0.551    | ppbv       | 84       |
| 12) 1,1,2-Trichlorotrifluo... | 4.079  | 101   | 43789m   | 0.573    | ppbv       |          |
| 13) Ethanol                   | 3.279  | 45    | 4595m    | 0.458    | ppbv       |          |
| 14) Bromoethene               | 3.382  | 108   | 15148    | 0.480    | ppbv #     | 90       |
| 15) Acetone                   | 3.504  | 43    | 55018    | 0.620    | ppbv       | 98       |
| 16) 1,3-Butadiene             | 3.002  | 39    | 22338    | 0.498    | ppbv       | 97       |
| 17) tert-Butyl alcohol        | 3.909  | 59    | 39955m   | 0.417    | ppbv       |          |
| 18) 1,1-Dichloroethene        | 3.893  | 96    | 16825m   | 0.493    | ppbv       |          |
| 19) Isopropyl Alcohol         | 3.610  | 45    | 25816m   | 0.443    | ppbv       |          |
| 20) Methylene Chloride        | 3.951  | 84    | 18634m   | 0.604    | ppbv       |          |
| 21) Allyl Chloride            | 4.015  | 41    | 28206    | 0.487    | ppbv       | 90       |
| 22) trans-1,2-Dichloroethene  | 4.462  | 96    | 19241m   | 0.543    | ppbv       |          |
| 23) Vinyl Acetate             | 4.648  | 43    | 39227m   | 0.401    | ppbv       |          |
| 24) 1,1-Dichloroethane        | 4.574  | 63    | 38181    | 0.502    | ppbv #     | 97       |
| 25) Ethyl Acetate             | 5.230  | 43    | 82564    | 0.466    | ppbv #     | 97       |
| 26) Hexane                    | 5.230  | 57    | 36471    | 0.461    | ppbv       | 97       |
| 27) Carbon Disulfide          | 4.140  | 76    | 42317    | 0.452    | ppbv #     | 90       |
| 28) Methyl tert-Butyl Ether   | 4.610  | 73    | 29014m   | 0.461    | ppbv       |          |
| 29) Chloroform                | 5.292  | 83    | 62206m   | 0.570    | ppbv       |          |
| 30) Cyclohexane               | 6.626  | 84    | 34858m   | 0.557    | ppbv       |          |
| 31) cis-1,2-Dichloroethene    | 5.099  | 61    | 36333m   | 0.491    | ppbv       |          |
| 32) 1,1,1-Trichloroethane     | 6.015  | 97    | 56268    | 0.517    | ppbv       | 96       |
| 34) 2-Butanone                | 4.816  | 43    | 52686m   | 0.506    | ppbv       |          |
| 35) Carbon Tetrachloride      | 6.507  | 117   | 55837    | 0.486    | ppbv       | 96       |
| 36) Benzene                   | 6.385  | 78    | 79335m   | 0.462    | ppbv       |          |
| 37) 1,2-Dichloroethane        | 5.822  | 62    | 42318    | 0.473    | ppbv #     | 94       |
| 38) Trichloroethene           | 7.304  | 130   | 30807    | 0.482    | ppbv       | 90       |
| 39) 1,2-Dichloropropane       | 7.082  | 63    | 30747    | 0.465    | ppbv       | 94       |
| 40) 1,4-Dioxane               | 7.346  | 88    | 9601m    | 0.406    | ppbv       |          |
| 41) Tetrahydrofuran           | 5.600  | 42    | 32056m   | 0.425    | ppbv       |          |
| 42) Bromodichloromethane      | 7.266  | 83    | 60129    | 0.468    | ppbv       | 98       |
| 43) Methyl Methacrylate       | 7.494  | 69    | 29069    | 0.419    | ppbv       | 97       |
| 44) 2,2,4-Trimethylpentane    | 7.340  | 57    | 130808   | 0.442    | ppbv       | 97       |
| 45) t-1,3-Dichloropropene     | 8.722  | 75    | 17562m   | 0.349    | ppbv       |          |

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Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2024  
 Supervised By :Mahesh Dadoda 05/10/2024

Quant Time: May 10 01:25:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M

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

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.156  | 75   | 24346m   | 0.395 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.912  | 97   | 32652m   | 0.493 | ppbv   |          |
| 48) Dibromochloromethane      | 9.725  | 129  | 47783m   | 0.453 | ppbv   |          |
| 49) Bromoform                 | 12.420 | 173  | 35552    | 0.396 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.214  | 43   | 76006m   | 0.407 | ppbv   |          |
| 51) 2-Hexanone                | 9.590  | 43   | 53820m   | 0.388 | ppbv   |          |
| 52) Tetrachloroethene         | 10.626 | 164  | 28734    | 0.476 | ppbv   | 89       |
| 53) Toluene                   | 9.233  | 91   | 83929m   | 0.422 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 10.024 | 107  | 39065    | 0.436 | ppbv   | 91       |
| 56) 1,1,1,2-Tetrachloroethane | 11.520 | 131  | 37481    | 0.490 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.539 | 112  | 72022    | 0.521 | ppbv   | 93       |
| 58) Ethyl Benzene             | 12.105 | 91   | 114105   | 0.441 | ppbv   | 93       |
| 59) m/p-Xylene                | 12.359 | 91   | 198635m  | 0.914 | ppbv   |          |
| 60) o-Xylene                  | 13.069 | 91   | 96953    | 0.476 | ppbv   | 98       |
| 61) Styrene                   | 12.918 | 104  | 42293m   | 0.393 | ppbv   |          |
| 62) Isopropylbenzene          | 14.044 | 105  | 144680   | 0.475 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.060 | 83   | 72281m   | 0.520 | ppbv   |          |
| 64) n-propylbenzene           | 14.925 | 120  | 35177    | 0.463 | ppbv   | 85       |
| 65) tert-Butylbenzene         | 16.108 | 119  | 126861   | 0.465 | ppbv   | 94       |
| 66) Benzyl Chloride           | 16.346 | 91   | 6474m    | 0.210 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.651 | 105  | 180409   | 0.469 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.011 | 119  | 144802m  | 0.457 | ppbv   |          |
| 70) n-Butylbenzene            | 17.902 | 91   | 143240   | 0.433 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.812 | 91   | 109816   | 0.473 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.201 | 105  | 105411m  | 0.457 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 98069m   | 0.470 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 106129m  | 0.465 | ppbv   |          |
| 75) 1,3-Dichlorobenzene       | 16.349 | 146  | 63419m   | 0.485 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 16.487 | 146  | 59423    | 0.472 | ppbv   | 91       |
| 77) 1,2-Dichlorobenzene       | 17.159 | 146  | 64504m   | 0.493 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 22.645 | 225  | 55367m   | 0.477 | ppbv   |          |
| 79) Naphthalene               | 21.410 | 128  | 65976m   | 0.304 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.493 | 142  | 11472m   | 0.131 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.162 | 180  | 38423m   | 0.335 | ppbv   |          |

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

