

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL100423\  
 Data File : VL040747.D  
 Acq On : 4 Oct 2023 19:33  
 Operator : SY/MD  
 Sample : 04699-13 LOD 0.40  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT4-2023

Quant Time: Oct 05 04:28:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091423AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023  
 QLast Update : Tue Sep 19 05:12:43 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/05/2023  
 Supervised By : Mahesh Dadoda 10/05/2023

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 794770   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.645  | 114  | 2233863  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 11.452 | 117  | 1838768  | 10.000 | ppbv  | -0.03    |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 13.761 95 1466420 10.322 ppbv -0.03  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.742 | 85  | 98437  | 0.562 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.687 | 51  | 71226  | 0.550 | ppbv   | 97     |
| 4) Chloromethane              | 2.825 | 50  | 26943  | 0.544 | ppbv # | 88     |
| 5) Vinyl Chloride             | 2.928 | 62  | 26192  | 0.447 | ppbv   | 95     |
| 6) Bromomethane               | 3.131 | 94  | 14028  | 0.496 | ppbv   | 97     |
| 7) Chloroethane               | 3.202 | 64  | 11590  | 0.576 | ppbv # | 82     |
| 8) Dichlorotetrafluoroethane  | 2.867 | 85  | 73650  | 0.509 | ppbv   | 96     |
| 9) Propene                    | 2.706 | 41  | 17560  | 0.471 | ppbv   | 98     |
| 10) Heptane                   | 7.571 | 43  | 29866m | 0.355 | ppbv   |        |
| 11) Trichlorofluoromethane    | 3.568 | 101 | 86322  | 0.561 | ppbv   | 92     |
| 12) 1,1,2-Trichlorotrifluo... | 4.066 | 101 | 61318  | 0.557 | ppbv   | 97     |
| 13) Ethanol                   | 3.269 | 45  | 6697m  | 0.607 | ppbv   |        |
| 14) Bromoethene               | 3.375 | 108 | 23353  | 0.506 | ppbv   | 95     |
| 15) Acetone                   | 3.491 | 43  | 68139  | 0.650 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 2.996 | 39  | 21271m | 0.466 | ppbv   |        |
| 17) tert-Butyl alcohol        | 3.899 | 59  | 42312  | 0.394 | ppbv   | 94     |
| 18) 1,1-Dichloroethene        | 3.886 | 96  | 23540  | 0.481 | ppbv   | 78     |
| 19) Isopropyl Alcohol         | 3.597 | 45  | 26916  | 0.426 | ppbv # | 80     |
| 20) Methylene Chloride        | 3.935 | 84  | 35246  | 0.625 | ppbv   | 94     |
| 21) Allyl Chloride            | 3.996 | 41  | 32814  | 0.511 | ppbv   | 94     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 24556  | 0.507 | ppbv # | 69     |
| 23) Vinyl Acetate             | 4.632 | 43  | 49476  | 0.456 | ppbv # | 79     |
| 24) 1,1-Dichloroethane        | 4.565 | 63  | 53451  | 0.527 | ppbv # | 94     |
| 25) Ethyl Acetate             | 5.211 | 43  | 74563  | 0.441 | ppbv # | 96     |
| 26) Hexane                    | 5.211 | 57  | 37166m | 0.465 | ppbv   |        |
| 27) Carbon Disulfide          | 4.128 | 76  | 53212  | 0.477 | ppbv # | 90     |
| 28) Methyl tert-Butyl Ether   | 4.594 | 73  | 32493m | 0.472 | ppbv   |        |
| 29) Chloroform                | 5.269 | 83  | 69092  | 0.501 | ppbv   | 97     |
| 30) Cyclohexane               | 6.587 | 84  | 19071m | 0.317 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 31969  | 0.431 | ppbv   | 92     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 64238  | 0.455 | ppbv   | 97     |
| 34) 2-Butanone                | 4.803 | 43  | 49755m | 0.443 | ppbv   |        |
| 35) Carbon Tetrachloride      | 6.481 | 117 | 68164m | 0.444 | ppbv   |        |
| 36) Benzene                   | 6.365 | 78  | 63832m | 0.386 | ppbv   |        |
| 37) 1,2-Dichloroethane        | 5.806 | 62  | 48202m | 0.426 | ppbv   |        |
| 38) Trichloroethene           | 7.282 | 130 | 25668m | 0.407 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 7.066 | 63  | 26759m | 0.420 | ppbv   |        |
| 40) 1,4-Dioxane               | 7.317 | 88  | 6190m  | 0.257 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.578 | 42  | 20230m | 0.351 | ppbv   |        |
| 42) Bromodichloromethane      | 7.237 | 83  | 63194  | 0.409 | ppbv # | 95     |
| 43) Methyl Methacrylate       | 7.471 | 69  | 19946m | 0.324 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 7.317 | 57  | 88361  | 0.335 | ppbv # | 84     |
| 45) t-1,3-Dichloropropene     | 8.693 | 75  | 14884m | 0.312 | ppbv   |        |

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Quant Time: Oct 05 04:28:55 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091423AIR.M

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

QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.127  | 75   | 17381m   | 0.298 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 29568m   | 0.405 | ppbv   |          |
| 48) Dibromochloromethane      | 9.696  | 129  | 45868    | 0.381 | ppbv   | 94       |
| 49) Bromoform                 | 12.391 | 173  | 34518    | 0.349 | ppbv   | 95       |
| 50) 4-Methyl-2-Pentanone      | 8.195  | 43   | 45922    | 0.302 | ppbv   | 95       |
| 51) 2-Hexanone                | 9.565  | 43   | 29616m   | 0.283 | ppbv   |          |
| 52) Tetrachloroethene         | 10.606 | 164  | 20701m   | 0.384 | ppbv   |          |
| 53) Toluene                   | 9.208  | 91   | 50218m   | 0.288 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 9.995  | 107  | 33521    | 0.359 | ppbv   | 84       |
| 56) 1,1,1,2-Tetrachloroethane | 11.494 | 131  | 42749m   | 0.488 | ppbv   |          |
| 57) Chlorobenzene             | 11.500 | 112  | 68096m   | 0.489 | ppbv   |          |
| 58) Ethyl Benzene             | 12.079 | 91   | 62689m   | 0.299 | ppbv   |          |
| 59) m/p-Xylene                | 12.349 | 91   | 134168m  | 0.682 | ppbv   |          |
| 60) o-Xylene                  | 13.047 | 91   | 56481    | 0.301 | ppbv   | 99       |
| 61) Styrene                   | 12.883 | 104  | 20930m   | 0.266 | ppbv   |          |
| 62) Isopropylbenzene          | 14.011 | 105  | 109485m  | 0.386 | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.034 | 83   | 63885    | 0.434 | ppbv   | 95       |
| 64) n-propylbenzene           | 14.899 | 120  | 26167m   | 0.369 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.079 | 119  | 96909m   | 0.381 | ppbv   |          |
| 66) Benzyl Chloride           | 16.304 | 91   | 9103m    | 0.307 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.619 | 105  | 128955m  | 0.354 | ppbv   |          |
| 69) p-Isopropyltoluene        | 16.986 | 119  | 89602    | 0.313 | ppbv # | 93       |
| 70) n-Butylbenzene            | 17.876 | 91   | 107969m  | 0.343 | ppbv   |          |
| 71) 2-Chlorotoluene           | 14.783 | 91   | 68076    | 0.325 | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 15.182 | 105  | 66687m   | 0.317 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 15.336 | 105  | 60814    | 0.321 | ppbv # | 81       |
| 74) 1,2,4-Trimethylbenzene    | 16.095 | 105  | 83310    | 0.361 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 16.317 | 146  | 54277m   | 0.412 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 16.458 | 146  | 49453    | 0.382 | ppbv   | 88       |
| 77) 1,2-Dichlorobenzene       | 17.130 | 146  | 59044m   | 0.450 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 22.606 | 225  | 47553m   | 0.479 | ppbv   |          |
| 79) Naphthalene               | 21.371 | 128  | 37166m   | 0.258 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.403 | 142  | 4696m    | 0.133 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.120 | 180  | 28629m   | 0.305 | ppbv   |          |

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

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