

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031422\  
 Data File : VL038605.D  
 Acq On : 14 Mar 2022 20:42  
 Operator : SY/AP  
 Sample : N1645-14 0.5 LOQ  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT1-2022

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/15/2022  
 Supervised By : Mahesh Dadoda 03/18/2022

Quant Time: Mar 15 01:45:54 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL030822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 08 21:18:44 2022

QLast Update : Tue Mar 08 21:18:44 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.642  | 49   | 768467   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.147  | 114  | 2000224  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.053 | 117  | 1799674  | 10.000 | ppbv  | #-0.02   |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.381 95 1402736 10.252 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

|                                 |       |     |        |       |        | Qvalue |
|---------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane      | 3.038 | 85  | 89443  | 0.771 | ppbv   | 96     |
| 3) Chlorodifluoromethane        | 2.980 | 51  | 82615  | 0.610 | ppbv   | 100    |
| 4) Chloromethane                | 3.131 | 50  | 31057  | 0.618 | ppbv   | 100    |
| 5) Vinyl Chloride               | 3.243 | 62  | 27432  | 0.544 | ppbv # | 87     |
| 6) Bromomethane                 | 3.465 | 94  | 16278  | 0.602 | ppbv # | 79     |
| 7) Chloroethane                 | 3.546 | 64  | 9562   | 0.586 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane    | 3.179 | 85  | 73407  | 0.652 | ppbv   | 99     |
| 9) Propene                      | 3.006 | 41  | 24497  | 0.512 | ppbv   | 94     |
| 10) Heptane                     | 8.095 | 43  | 53970  | 0.472 | ppbv   | 94     |
| 11) Trichlorofluoromethane      | 3.935 | 101 | 61215  | 0.602 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluoro... | 4.468 | 101 | 47704  | 0.603 | ppbv   | 96     |
| 13) Ethanol                     | 3.607 | 45  | 4539m  | 0.826 | ppbv   |        |
| 14) Bromoethene                 | 3.726 | 108 | 19115  | 0.567 | ppbv # | 88     |
| 15) Acetone                     | 3.851 | 43  | 31006  | 0.572 | ppbv   | 90     |
| 16) 1,3-Butadiene               | 3.317 | 39  | 23728  | 0.545 | ppbv   | 92     |
| 17) tert-Butyl alcohol          | 4.292 | 59  | 27316  | 0.464 | ppbv # | 91     |
| 18) 1,1-Dichloroethene          | 4.276 | 96  | 20867  | 0.589 | ppbv   | 86     |
| 19) Isopropyl Alcohol           | 3.973 | 45  | 17186  | 0.475 | ppbv # | 86     |
| 20) Methylene Chloride          | 4.330 | 84  | 19134  | 0.587 | ppbv   | 99     |
| 21) Allyl Chloride              | 4.391 | 41  | 26718  | 0.511 | ppbv # | 88     |
| 22) trans-1,2-Dichloroethene    | 4.867 | 96  | 18555  | 0.500 | ppbv   | 98     |
| 23) Vinyl Acetate               | 5.060 | 43  | 39456m | 0.508 | ppbv   |        |
| 24) 1,1-Dichloroethane          | 4.989 | 63  | 42019  | 0.595 | ppbv   | 99     |
| 25) Ethyl Acetate               | 5.668 | 43  | 97123  | 0.532 | ppbv   | 97     |
| 26) Hexane                      | 5.665 | 57  | 43099  | 0.503 | ppbv # | 85     |
| 27) Carbon Disulfide            | 4.533 | 76  | 43684  | 0.512 | ppbv # | 85     |
| 28) Methyl tert-Butyl Ether     | 5.028 | 73  | 37022  | 0.531 | ppbv   | 99     |
| 29) Chloroform                  | 5.729 | 83  | 79503  | 0.596 | ppbv   | 95     |
| 30) Cyclohexane                 | 7.105 | 84  | 37037m | 0.500 | ppbv   |        |
| 31) cis-1,2-Dichloroethene      | 5.530 | 61  | 41061m | 0.501 | ppbv   |        |
| 32) 1,1,1-Trichloroethane       | 6.484 | 97  | 70568  | 0.545 | ppbv   | 96     |
| 34) 2-Butanone                  | 5.240 | 43  | 25160  | 0.485 | ppbv # | 87     |
| 35) Carbon Tetrachloride        | 6.989 | 117 | 75505  | 0.553 | ppbv   | 99     |
| 36) Benzene                     | 6.864 | 78  | 84525  | 0.468 | ppbv   | 96     |
| 37) 1,2-Dichloroethane          | 6.279 | 62  | 49722  | 0.576 | ppbv   | 99     |
| 38) Trichloroethene             | 7.803 | 130 | 34132  | 0.473 | ppbv   | 95     |
| 39) 1,2-Dichloropropane         | 7.587 | 63  | 37822  | 0.545 | ppbv   | 95     |
| 40) 1,4-Dioxane                 | 7.851 | 88  | 9877m  | 0.569 | ppbv   |        |
| 41) Tetrahydrofuran             | 6.060 | 42  | 16934m | 0.399 | ppbv   |        |
| 42) Bromodichloromethane        | 7.761 | 83  | 73658  | 0.539 | ppbv   | 92     |
| 43) Methyl Methacrylate         | 7.996 | 69  | 26222m | 0.423 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane      | 7.845 | 57  | 154599 | 0.507 | ppbv   | 94     |
| 45) t-1,3-Dichloropropene       | 9.250 | 75  | 16708m | 0.374 | ppbv   |        |

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 MSVOA\_L  
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 LOQ-AIR-02-QT1-2022

Quant Time: Mar 15 01:45:54 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL030822AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 08 21:18:44 2022  
 QLast Update : Tue Mar 08 21:18:44 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/15/2022  
 Supervised By :Mahesh Dadoda 03/18/2022

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.677  | 75   | 24134    | 0.395 | ppbv # | 85       |
| 47) 1,1,2-Trichloroethane     | 9.446  | 97   | 38136    | 0.539 | ppbv   | 90       |
| 48) Dibromochloromethane      | 10.269 | 129  | 56429    | 0.502 | ppbv   | 98       |
| 49) Bromoform                 | 13.005 | 173  | 44621    | 0.519 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 8.738  | 43   | 43122m   | 0.406 | ppbv   |          |
| 51) 2-Hexanone                | 10.144 | 43   | 15093m   | 0.336 | ppbv   |          |
| 52) Tetrachloroethene         | 11.192 | 164  | 30542    | 0.462 | ppbv   | 88       |
| 53) Toluene                   | 9.774  | 91   | 78236    | 0.406 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.581 | 107  | 47577    | 0.471 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.095 | 131  | 45153    | 0.616 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.111 | 112  | 82289    | 0.599 | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.677 | 91   | 101090   | 0.434 | ppbv   | 100      |
| 59) m/p-Xylene                | 12.963 | 91   | 194037m  | 0.973 | ppbv   |          |
| 60) o-Xylene                  | 13.658 | 91   | 86953    | 0.462 | ppbv   | 97       |
| 61) Styrene                   | 13.494 | 104  | 32451m   | 0.350 | ppbv   |          |
| 62) Isopropylbenzene          | 14.638 | 105  | 140408m  | 0.540 | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.639 | 83   | 91299m   | 0.574 | ppbv   |          |
| 64) n-propylbenzene           | 15.532 | 120  | 33269    | 0.502 | ppbv   | 84       |
| 65) tert-Butylbenzene         | 16.716 | 119  | 121663m  | 0.523 | ppbv   |          |
| 66) Benzyl Chloride           | 16.970 | 91   | 7044m    | 0.511 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.265 | 105  | 169536   | 0.513 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.622 | 119  | 128566   | 0.470 | ppbv   | 97       |
| 70) n-Butylbenzene            | 18.519 | 91   | 134366   | 0.461 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 15.420 | 91   | 90599    | 0.469 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.809 | 105  | 98670    | 0.456 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 15.966 | 105  | 93536    | 0.466 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 16.728 | 105  | 109596   | 0.511 | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 16.960 | 146  | 71698    | 0.530 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 17.101 | 146  | 62410    | 0.465 | ppbv   | 90       |
| 77) 1,2-Dichlorobenzene       | 17.786 | 146  | 74008    | 0.540 | ppbv   | 95       |
| 78) Hexachloro-1,3-Butadiene  | 23.342 | 225  | 81750    | 0.612 | ppbv   | 99       |
| 79) Naphthalene               | 22.159 | 128  | 61869    | 0.321 | ppbv   | 95       |
| 80) Naphthalene,2-methyl-     | 24.956 | 142  | 6550m    | 0.192 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.892 | 180  | 44346    | 0.360 | ppbv   | 92       |

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

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