

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110921\  
 Data File : VL037980.D  
 Acq On : 9 Nov 2021 14:31  
 Operator : SY/AP  
 Sample : VL1109ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1109ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/15/2021  
 Supervised By : Mahesh Dadoda 11/17/2021

Quant Time: Nov 10 04:48:09 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Nov 9 04:48:09 2021

QLast Update : Tue Nov 02 05:54:07 2021

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.668  | 49   | 1559025  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.172  | 114  | 4654245  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.079 | 117  | 4107818m | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.410 95 2914492 9.761 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.600%

Target Compounds

|                               |       |     |         |        |      | Qvalue |
|-------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 3.054 | 85  | 2192027 | 9.979  | ppbv | 97     |
| 3) Chlorodifluoromethane      | 2.993 | 51  | 2647252 | 9.121  | ppbv | 99     |
| 4) Chloromethane              | 3.144 | 50  | 1012171 | 9.177  | ppbv | 99     |
| 5) Vinyl Chloride             | 3.259 | 62  | 1007368 | 9.476  | ppbv | 96     |
| 6) Bromomethane               | 3.478 | 94  | 558268  | 9.721  | ppbv | 96     |
| 7) Chloroethane               | 3.562 | 64  | 347566  | 9.057  | ppbv | 99     |
| 8) Dichlorotetrafluoroethane  | 3.192 | 85  | 2296015 | 9.074  | ppbv | 99     |
| 9) Propene                    | 3.015 | 41  | 995719  | 9.569  | ppbv | 95     |
| 10) Heptane                   | 8.121 | 43  | 2439746 | 10.078 | ppbv | 100    |
| 11) Trichlorofluoromethane    | 3.951 | 101 | 2036465 | 9.311  | ppbv | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.484 | 101 | 1569933 | 9.208  | ppbv | 99     |
| 13) Ethanol                   | 3.610 | 45  | 107588m | 10.249 | ppbv |        |
| 14) Bromoethene               | 3.742 | 108 | 714670  | 9.582  | ppbv | 98     |
| 15) Acetone                   | 3.851 | 43  | 1156571 | 8.978  | ppbv | 98     |
| 16) 1,3-Butadiene             | 3.333 | 39  | 968576  | 9.542  | ppbv | 99     |
| 17) tert-Butyl alcohol        | 4.288 | 59  | 1446204 | 10.797 | ppbv | 98     |
| 18) 1,1-Dichloroethene        | 4.292 | 96  | 728585  | 9.285  | ppbv | 96     |
| 19) Isopropyl Alcohol         | 3.967 | 45  | 843729m | 10.242 | ppbv |        |
| 20) Methylene Chloride        | 4.343 | 84  | 591886  | 8.369  | ppbv | 95     |
| 21) Allyl Chloride            | 4.414 | 41  | 1191738 | 10.026 | ppbv | 98     |
| 22) trans-1,2-Dichloroethene  | 4.890 | 96  | 745913  | 9.566  | ppbv | 91     |
| 23) Vinyl Acetate             | 5.073 | 43  | 1786832 | 9.212  | ppbv | 98     |
| 24) 1,1-Dichloroethane        | 5.012 | 63  | 1499796 | 9.359  | ppbv | 99     |
| 25) Ethyl Acetate             | 5.677 | 43  | 3764579 | 9.838  | ppbv | 100    |
| 26) Hexane                    | 5.690 | 57  | 1748594 | 9.645  | ppbv | 98     |
| 27) Carbon Disulfide          | 4.552 | 76  | 1872190 | 10.461 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether   | 5.034 | 73  | 1509013 | 9.901  | ppbv | 100    |
| 29) Chloroform                | 5.751 | 83  | 2499684 | 9.246  | ppbv | 96     |
| 30) Cyclohexane               | 7.127 | 84  | 1498612 | 9.670  | ppbv | 99     |
| 31) cis-1,2-Dichloroethene    | 5.549 | 61  | 1669151 | 10.091 | ppbv | 98     |
| 32) 1,1,1-Trichloroethane     | 6.510 | 97  | 2370434 | 8.920  | ppbv | 99     |
| 34) 2-Butanone                | 5.243 | 43  | 1550208 | 8.989  | ppbv | 97     |
| 35) Carbon Tetrachloride      | 7.018 | 117 | 2501991 | 8.892  | ppbv | 98     |
| 36) Benzene                   | 6.889 | 78  | 3700933 | 9.764  | ppbv | 98     |
| 37) 1,2-Dichloroethane        | 6.304 | 62  | 1753321 | 9.730  | ppbv | 100    |
| 38) Trichloroethene           | 7.835 | 130 | 1420448 | 9.029  | ppbv | 98     |
| 39) 1,2-Dichloropropane       | 7.613 | 63  | 1407151 | 9.867  | ppbv | 91     |
| 40) 1,4-Dioxane               | 7.835 | 88  | 347840m | 9.261  | ppbv |        |
| 41) Tetrahydrofuran           | 6.050 | 42  | 891202  | 10.561 | ppbv | 98     |
| 42) Bromodichloromethane      | 7.790 | 83  | 2613379 | 9.592  | ppbv | 99     |
| 43) Methyl Methacrylate       | 8.012 | 69  | 1315596 | 10.575 | ppbv | 98     |
| 44) 2,2,4-Trimethylpentane    | 7.867 | 57  | 6160579 | 9.556  | ppbv | 99     |
| 45) t-1,3-Dichloropropene     | 9.275 | 75  | 1051548 | 11.503 | ppbv | 98     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Nov 9 04:48:09 2021

QLast Update : Tue Nov 02 05:54:07 2021

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.700  | 75   | 1415237  | 11.260 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.468  | 97   | 1453977  | 9.074  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.301 | 129  | 2262278  | 9.972  | ppbv   | 99       |
| 49) Bromoform                 | 13.034 | 173  | 1770917  | 9.875  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.738  | 43   | 2310402  | 10.196 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.131 | 43   | 999169   | 10.462 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.217 | 164  | 1298306  | 9.030  | ppbv   | 98       |
| 53) Toluene                   | 9.803  | 91   | 4195640  | 10.325 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.606 | 107  | 2063874  | 9.987  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.124 | 131  | 1560535  | 9.409  | ppbv   | 96       |
| 57) Chlorobenzene             | 12.140 | 112  | 2988798  | 9.116  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.706 | 91   | 5217225  | 10.386 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.992 | 91   | 8666054m | 19.409 | ppbv   |          |
| 60) o-Xylene                  | 13.683 | 91   | 4023172  | 9.557  | ppbv   | 100      |
| 61) Styrene                   | 13.519 | 104  | 2224842  | 11.508 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.658 | 105  | 5516865  | 9.255  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.667 | 83   | 2807609  | 7.749  | ppbv   | 98       |
| 64) n-propylbenzene           | 15.558 | 120  | 1436244  | 9.404  | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.738 | 119  | 4769292  | 9.054  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.979 | 91   | 263329   | 9.566  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.291 | 105  | 6614348  | 9.113  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.641 | 119  | 5466946  | 9.391  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.542 | 91   | 5290080  | 9.889  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.445 | 91   | 3927085  | 9.403  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.831 | 105  | 4649572  | 9.641  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.989 | 105  | 4247203  | 9.404  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.757 | 105  | 4295459  | 9.078  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.989 | 146  | 2580773  | 8.760  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.130 | 146  | 2433922  | 8.538  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.809 | 146  | 2441618  | 8.827  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.365 | 225  | 1970708  | 8.323  | ppbv   | 99       |
| 79) Naphthalene               | 22.188 | 128  | 3503612  | 12.852 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 24.963 | 142  | 756482   | 14.255 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.911 | 180  | 1970502  | 11.105 | ppbv   | 99       |

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

