

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061421\  
 Data File : VL037151.D  
 Acq On : 14 Jun 2021 16:11  
 Operator : SY/AP  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

MMDadoda  
 6/15/2021 5:17:13 PM

Quant Time: Jun 14 16:43:37 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jun 14 16:43:37 2021  
 QLast Update : Mon Jun 14 16:38:23 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1622631  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 4829389  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 4717207m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 3559282  | 10.04    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.40% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85   | 2808753  | 10.204 | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 3.00 | 51   | 4031781  | 13.563 | ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50   | 1445199  | 14.287 | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.26 | 62   | 1543580  | 13.960 | ppbv   | 98     |
| 6) Bromomethane                | 3.48 | 94   | 912888   | 15.668 | ppbv   | 99     |
| 7) Chloroethane                | 3.56 | 64   | 561917   | 15.651 | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85   | 3511085  | 13.585 | ppbv   | 100    |
| 9) Propene                     | 3.02 | 41   | 1325055  | 12.448 | ppbv   | 100    |
| 10) Heptane                    | 8.14 | 43   | 3424933  | 12.911 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.96 | 101  | 4035184  | 15.837 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101  | 2843040  | 15.665 | ppbv   | 98     |
| 13) Ethanol                    | 3.63 | 45   | 169073m  | 11.904 | ppbv   |        |
| 14) Bromoethene                | 3.75 | 108  | 1252259  | 15.665 | ppbv   | 100    |
| 15) Acetone                    | 3.86 | 43   | 2107199  | 12.679 | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.33 | 39   | 1517289  | 14.694 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.30 | 59   | 2415305  | 15.865 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96   | 1291379  | 15.388 | ppbv   | 96     |
| 19) Isopropyl Alcohol          | 3.98 | 45   | 1494832  | 16.732 | ppbv # | 98     |
| 20) Methylene Chloride         | 4.35 | 84   | 997256   | 11.194 | ppbv   | 95     |
| 21) Allyl Chloride             | 4.42 | 41   | 1896334  | 15.125 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96   | 1289745  | 16.036 | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.09 | 43   | 3816915  | 14.469 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.02 | 63   | 2842902  | 14.972 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.69 | 43   | 5305742  | 13.285 | ppbv   | 99     |
| 26) Hexane                     | 5.70 | 57   | 2524267  | 12.372 | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.56 | 76   | 3061404  | 14.888 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 3247675  | 13.280 | ppbv   | 99     |
| 29) Chloroform                 | 5.77 | 83   | 4260972  | 14.783 | ppbv   | 100    |
| 30) Cyclohexane                | 7.15 | 84   | 2305021  | 13.295 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61   | 2626892  | 14.361 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97   | 4396638  | 14.205 | ppbv   | 100    |
| 34) 2-Butanone                 | 5.26 | 43   | 2562096  | 14.570 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.03 | 117  | 4742273  | 14.779 | ppbv   | 99     |
| 36) Benzene                    | 6.91 | 78   | 5330020  | 12.813 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.32 | 62   | 3191727  | 15.476 | ppbv   | 100    |
| 38) Trichloroethene            | 7.85 | 130  | 2360307  | 13.264 | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.63 | 63   | 2085585  | 13.015 | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.85 | 88   | 559895   | 14.798 | ppbv   | 97     |
| 41) Tetrahydrofuran            | 6.07 | 42   | 1289744  | 12.878 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.81 | 83   | 4669611  | 14.966 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.03 | 69   | 2034514  | 14.190 | ppbv   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061421\  
 Data File : VL037151.D  
 Acq On : 14 Jun 2021 16:11  
 Operator : SY/AP  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

MMDadoda  
 6/15/2021 5:17:13 PM

Quant Time: Jun 14 16:43:37 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jun 14 2021  
 QLast Update : Mon Jun 14 16:38:23 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response  | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|-----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 8496076   | 11.905 | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 2116544   | 19.323 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 2591747   | 17.591 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.50  | 97   | 2337416   | 13.937 | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.32 | 129  | 4271531   | 15.729 | ppbv   | 99       |
| 49) Bromoform                 | 13.06 | 173  | 3581848   | 15.971 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 3932491   | 13.552 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.15 | 43   | 2161574   | 14.091 | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.24 | 164  | 2274095   | 13.748 | ppbv   | 97       |
| 53) Toluene                   | 9.83  | 91   | 6434738   | 13.000 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 3542605   | 14.857 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 2862991   | 14.424 | ppbv   | 98       |
| 57) Chlorobenzene             | 12.17 | 112  | 4939338   | 13.504 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.73 | 91   | 8468115   | 12.719 | ppbv   | 98       |
| 59) m/p-Xylene                | 13.02 | 91   | 14211722m | 25.824 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 6863086   | 13.076 | ppbv   | 99       |
| 61) Styrene                   | 13.55 | 104  | 4156925   | 14.058 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.69 | 105  | 9432061   | 12.504 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 4714718   | 12.027 | ppbv   | 100      |
| 64) n-propylbenzene           | 15.58 | 120  | 2684594   | 13.794 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 8639834   | 12.693 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.00 | 91   | 514609    | 13.626 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.32 | 105  | 11263477  | 12.130 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 9898625   | 12.398 | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.57 | 91   | 9461189   | 12.475 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 7062406   | 12.963 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.86 | 105  | 8259892   | 13.259 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.02 | 105  | 7619999   | 13.026 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 7800871   | 12.897 | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 17.02 | 146  | 5013580   | 13.574 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.16 | 146  | 4875041   | 13.054 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.84 | 146  | 4821043   | 13.026 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.40 | 225  | 3061088   | 10.286 | ppbv   | 100      |
| 79) Naphthalene               | 22.22 | 128  | 6406833   | 13.499 | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 1949150   | 18.887 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.95 | 180  | 3643912   | 12.595 | ppbv   | 100      |

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

