

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\  
 Data File : VL037217.D  
 Acq On : 22 Jun 2021 14:25  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 6/24/2021 4:32:41 PM

Quant Time: Jun 23 01:50:39 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 1  
 QLast Update : Wed Jun 16 14:06:32 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1638776  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 4875760  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 4638507m | 10.00 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 3417306  | 9.72     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.20% |

| Target Compounds               |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 2637790 | 9.255 ppbv   | 98     |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 2794211 | 8.769 ppbv   | 100    |
| 4) Chloromethane               | 3.15 | 50  | 971707  | 9.150 ppbv   | 99     |
| 5) Vinyl Chloride              | 3.27 | 62  | 1039422 | 8.905 ppbv   | 98     |
| 6) Bromomethane                | 3.49 | 94  | 551891  | 7.926 ppbv   | 99     |
| 7) Chloroethane                | 3.57 | 64  | 388416  | 9.310 ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 2707577 | 9.261 ppbv   | 96     |
| 9) Propene                     | 3.02 | 41  | 927050  | 9.099 ppbv   | 99     |
| 10) Heptane                    | 8.14 | 43  | 2346229 | 9.508 ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 2760683 | 9.078 ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 2059492 | 9.607 ppbv   | 99     |
| 13) Ethanol                    | 3.63 | 45  | 121507m | 7.709 ppbv   |        |
| 14) Bromoethene                | 3.75 | 108 | 847456  | 9.472 ppbv   | 99     |
| 15) Acetone                    | 3.86 | 43  | 1388213 | 7.512 ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.34 | 39  | 1007434 | 9.221 ppbv   | 97     |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 1677913 | 9.824 ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 894759  | 9.419 ppbv   | 98     |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 869274  | 7.766 ppbv # | 97     |
| 20) Methylene Chloride         | 4.36 | 84  | 795276  | 7.188 ppbv   | 96     |
| 21) Allyl Chloride             | 4.43 | 41  | 1345455 | 9.659 ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 933444  | 9.930 ppbv   | 99     |
| 23) Vinyl Acetate              | 5.09 | 43  | 2290445 | 8.644 ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1857715 | 8.708 ppbv   | 99     |
| 25) Ethyl Acetate              | 5.70 | 43  | 3622376 | 9.054 ppbv   | 100    |
| 26) Hexane                     | 5.70 | 57  | 1783365 | 8.820 ppbv   | 98     |
| 27) Carbon Disulfide           | 4.56 | 76  | 2210102 | 11.156 ppbv  | 100    |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 2049052 | 8.429 ppbv   | 98     |
| 29) Chloroform                 | 5.77 | 83  | 2824955 | 9.044 ppbv   | 99     |
| 30) Cyclohexane                | 7.15 | 84  | 1553971 | 9.224 ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.57 | 61  | 1756889 | 9.456 ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97  | 2980735 | 8.918 ppbv   | 99     |
| 34) 2-Butanone                 | 5.27 | 43  | 1616697 | 8.526 ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.04 | 117 | 3146517 | 9.622 ppbv   | 99     |
| 36) Benzene                    | 6.91 | 78  | 3681466 | 9.337 ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.33 | 62  | 2127058 | 9.287 ppbv   | 99     |
| 38) Trichloroethene            | 7.86 | 130 | 1567790 | 8.365 ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.64 | 63  | 1424448 | 9.723 ppbv   | 97     |
| 40) 1,4-Dioxane                | 7.86 | 88  | 334924  | 8.336 ppbv   | 61     |
| 41) Tetrahydrofuran            | 6.07 | 42  | 871609  | 9.896 ppbv   | 99     |
| 42) Bromodichloromethane       | 7.81 | 83  | 3148294 | 9.964 ppbv   | 98     |
| 43) Methyl Methacrylate        | 8.03 | 69  | 1365520 | 10.029 ppbv  | 99     |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 6070630  | 9.144  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 1000435  | 8.328  | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.73  | 75   | 1283294  | 7.809  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1558442  | 9.324  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.33 | 129  | 2803027  | 10.624 | ppbv   | 99       |
| 49) Bromoform                 | 13.06 | 173  | 2338426  | 11.896 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 2612806  | 10.032 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.16 | 43   | 1368248  | 10.797 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.24 | 164  | 1516290  | 8.277  | ppbv   | 98       |
| 53) Toluene                   | 9.83  | 91   | 4424199  | 9.394  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 2284649  | 9.511  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 1904546  | 9.391  | ppbv # | 60       |
| 57) Chlorobenzene             | 12.17 | 112  | 3315849  | 8.815  | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.73 | 91   | 5862923  | 9.182  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.02 | 91   | 9785662m | 18.084 | ppbv   |          |
| 60) o-Xylene                  | 13.71 | 91   | 4674797  | 9.073  | ppbv   | 99       |
| 61) Styrene                   | 13.55 | 104  | 2681201  | 10.082 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.69 | 105  | 6538213  | 8.924  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 3154066  | 9.193  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.58 | 120  | 1778363  | 9.692  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.76 | 119  | 5889007  | 9.062  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.01 | 91   | 197724   | 7.180  | ppbv # | 94       |
| 67) sec-Butylbenzene          | 17.32 | 105  | 7830599  | 9.037  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 6831564  | 9.333  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.57 | 91   | 6486657  | 9.576  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 4801655  | 9.373  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.86 | 105  | 5645243  | 9.644  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 5142606  | 9.089  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 5365949  | 9.204  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 3231947  | 9.117  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.16 | 146  | 3205589  | 9.054  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.84 | 146  | 3122991  | 9.107  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.40 | 225  | 2080656  | 7.057  | ppbv   | 99       |
| 79) Naphthalene               | 22.22 | 128  | 4124223  | 8.484  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 1176031  | 9.225  | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.95 | 180  | 2364864  | 8.431  | ppbv   | 98       |

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

