

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\  
 Data File : VL037295.D  
 Acq On : 30 Jul 2021 21:52  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Manual Integrations  
 APPROVED

MMDadoda  
 8/2/2021 8:57:57 AM

Quant Time: Jul 31 01:36:11 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 30 2021  
 QLast Update : Fri Jul 30 23:19:30 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1288711  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3995600  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3869937m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2833711  | 10.06    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.60% |

| Target Compounds               |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 1493613 | 8.053  | ppbv 99  |
| 3) Chlorodifluoromethane       | 2.98 | 51  | 2445574 | 9.470  | ppbv 100 |
| 4) Chloromethane               | 3.13 | 50  | 876128  | 9.729  | ppbv 99  |
| 5) Vinyl Chloride              | 3.25 | 62  | 950062  | 9.764  | ppbv 94  |
| 6) Bromomethane                | 3.46 | 94  | 498718  | 9.038  | ppbv 98  |
| 7) Chloroethane                | 3.55 | 64  | 338544  | 9.872  | ppbv 98  |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 2080478 | 9.434  | ppbv 100 |
| 9) Propene                     | 3.00 | 41  | 840508  | 9.675  | ppbv 98  |
| 10) Heptane                    | 8.12 | 43  | 2077419 | 10.046 | ppbv 99  |
| 11) Trichlorofluoromethane     | 3.94 | 101 | 2205688 | 9.574  | ppbv 97  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1628270 | 9.501  | ppbv 98  |
| 13) Ethanol                    | 3.60 | 45  | 113324m | 5.935  | ppbv     |
| 14) Bromoethene                | 3.73 | 108 | 708188  | 9.779  | ppbv 97  |
| 15) Acetone                    | 3.84 | 43  | 1267112 | 5.459  | ppbv 100 |
| 16) 1,3-Butadiene              | 3.32 | 39  | 839987  | 9.647  | ppbv 97  |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 1498546 | 10.153 | ppbv 99  |
| 18) 1,1-Dichloroethene         | 4.28 | 96  | 744098  | 9.879  | ppbv 98  |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 871531  | 9.705  | ppbv 99  |
| 20) Methylene Chloride         | 4.34 | 84  | 659284  | 7.340  | ppbv 96  |
| 21) Allyl Chloride             | 4.41 | 41  | 1079120 | 10.442 | ppbv 97  |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 751522  | 10.454 | ppbv 99  |
| 23) Vinyl Acetate              | 5.07 | 43  | 1849701 | 9.444  | ppbv 98  |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1463534 | 9.624  | ppbv 99  |
| 25) Ethyl Acetate              | 5.67 | 43  | 3290217 | 9.769  | ppbv 99  |
| 26) Hexane                     | 5.68 | 57  | 1626440 | 9.036  | ppbv 95  |
| 27) Carbon Disulfide           | 4.54 | 76  | 1711692 | 11.545 | ppbv 99  |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 1591250 | 9.152  | ppbv 99  |
| 29) Chloroform                 | 5.75 | 83  | 2466950 | 9.565  | ppbv 99  |
| 30) Cyclohexane                | 7.13 | 84  | 1453496 | 10.327 | ppbv 97  |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1546444 | 10.138 | ppbv 97  |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2537986 | 9.896  | ppbv 99  |
| 34) 2-Butanone                 | 5.24 | 43  | 1527685 | 8.911  | ppbv 98  |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 2657008 | 10.493 | ppbv 99  |
| 36) Benzene                    | 6.89 | 78  | 3401891 | 10.056 | ppbv 98  |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1812363 | 10.284 | ppbv 99  |
| 38) Trichloroethene            | 7.83 | 130 | 1493368 | 9.782  | ppbv 98  |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 1281162 | 10.071 | ppbv 99  |
| 40) 1,4-Dioxane                | 7.83 | 88  | 317827  | 8.672  | ppbv 84  |
| 41) Tetrahydrofuran            | 6.05 | 42  | 768408  | 11.154 | ppbv 100 |
| 42) Bromodichloromethane       | 7.79 | 83  | 2625053 | 10.678 | ppbv 96  |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1227874 | 10.920 | ppbv 99  |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 5465619  | 9.883  | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1014827  | 10.770 | ppbv  | 96       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1358680  | 10.691 | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1432371  | 10.037 | ppbv  | 99       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2462401  | 11.270 | ppbv  | 100      |
| 49) Bromoform                 | 13.04 | 173  | 2084636  | 12.282 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2341097  | 10.783 | ppbv  | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1225931  | 12.230 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 1427977  | 9.576  | ppbv  | 97       |
| 53) Toluene                   | 9.81  | 91   | 4083335  | 10.267 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2074187  | 10.280 | ppbv  | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1715698  | 10.128 | ppbv  | 96       |
| 57) Chlorobenzene             | 12.15 | 112  | 3141919  | 9.706  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.71 | 91   | 5400279  | 10.150 | ppbv  | 99       |
| 59) m/p-Xylene                | 13.00 | 91   | 8998630m | 19.646 | ppbv  |          |
| 60) o-Xylene                  | 13.70 | 91   | 4297698  | 9.818  | ppbv  | 100      |
| 61) Styrene                   | 13.53 | 104  | 2520277  | 11.264 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.67 | 105  | 6097906  | 9.863  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2954494  | 9.570  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.56 | 120  | 1656444  | 10.332 | ppbv  | 98       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 5571402  | 9.736  | ppbv  | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 246891m  | 8.780  | ppbv  |          |
| 67) sec-Butylbenzene          | 17.30 | 105  | 7403547  | 9.785  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 6456510  | 9.968  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 6067533  | 9.926  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4394652  | 9.973  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 5359605  | 10.340 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4794133  | 10.014 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 5002894  | 9.479  | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3130014  | 9.863  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 3121673  | 9.527  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 3018467  | 9.908  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1944960  | 8.511  | ppbv  | 100      |
| 79) Naphthalene               | 22.20 | 128  | 3722511  | 9.006  | ppbv  | 98       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1248945  | 10.507 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 2248094m | 9.012  | ppbv  |          |

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

