

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\  
 Data File : VL038213.D  
 Acq On : 21 Dec 2021 14:02  
 Operator : SY/AP  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Quant Time: Dec 21 17:46:02 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Tue Dec 21 13:55:45 2021  
 Response via : Initial Calibration

Reviewed By :Amit Patel 12/22/2021  
 Supervised By :Mahesh Dadoda 12/29/2021

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 751047   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2343077  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2229424  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1608734  | 9.98     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.80% |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 284322  | 2.216 ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 346074  | 2.209 ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50  | 111210  | 2.075 ppbv   | 98     |
| 5) Vinyl Chloride              | 3.26 | 62  | 119062  | 2.266 ppbv   | 97     |
| 6) Bromomethane                | 3.48 | 94  | 57499   | 2.025 ppbv   | 88     |
| 7) Chloroethane                | 3.56 | 64  | 41943   | 2.235 ppbv   | 92     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 290688  | 2.339 ppbv   | 98     |
| 9) Propene                     | 3.01 | 41  | 118274  | 2.068 ppbv   | 99     |
| 10) Heptane                    | 8.12 | 43  | 311367  | 2.189 ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 278718  | 2.334 ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 213976  | 2.512 ppbv   | 98     |
| 13) Ethanol                    | 3.62 | 45  | 20804m  | 3.443 ppbv   |        |
| 14) Bromoethene                | 3.75 | 108 | 84913   | 2.245 ppbv   | 99     |
| 15) Acetone                    | 3.86 | 43  | 169173  | 2.568 ppbv   | 96     |
| 16) 1,3-Butadiene              | 3.33 | 39  | 112530  | 2.218 ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 170345  | 2.121 ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 95047   | 2.451 ppbv   | 93     |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 93232   | 1.953 ppbv # | 37     |
| 20) Methylene Chloride         | 4.35 | 84  | 93858   | 2.558 ppbv   | 99     |
| 21) Allyl Chloride             | 4.42 | 41  | 136012  | 2.245 ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 95307   | 2.393 ppbv   | 99     |
| 23) Vinyl Acetate              | 5.08 | 43  | 221749  | 2.335 ppbv   | 97     |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 198876  | 2.488 ppbv   | 99     |
| 25) Ethyl Acetate              | 5.68 | 43  | 457943  | 2.133 ppbv   | 99     |
| 26) Hexane                     | 5.69 | 57  | 226516  | 2.186 ppbv   | 97     |
| 27) Carbon Disulfide           | 4.55 | 76  | 199202  | 2.140 ppbv   | 97     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 226667  | 2.516 ppbv   | 100    |
| 29) Chloroform                 | 5.75 | 83  | 337491  | 2.215 ppbv   | 100    |
| 30) Cyclohexane                | 7.12 | 84  | 206232m | 2.188 ppbv   |        |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 167850  | 1.759 ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 331505  | 2.139 ppbv   | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 153556  | 1.694 ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 318958  | 1.961 ppbv   | 100    |
| 36) Benzene                    | 6.89 | 78  | 484701  | 2.103 ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 234244  | 2.096 ppbv   | 99     |
| 38) Trichloroethene            | 7.83 | 130 | 177362  | 2.033 ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 185017  | 2.102 ppbv   | 96     |
| 40) 1,4-Dioxane                | 7.85 | 88  | 54191m  | 2.363 ppbv   |        |
| 41) Tetrahydrofuran            | 6.06 | 42  | 108010  | 1.866 ppbv   | 94     |
| 42) Bromodichloromethane       | 7.79 | 83  | 342194  | 2.015 ppbv   | 98     |
| 43) Methyl Methacrylate        | 8.01 | 69  | 170852  | 2.166 ppbv   | 99     |

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| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 827386   | 2.140 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 117010m  | 1.866 | ppbv   |          |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 165869   | 1.939 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 193347   | 2.093 | ppbv   | 94       |
| 48) Dibromochloromethane      | 10.30 | 129  | 278355   | 1.988 | ppbv   | 98       |
| 49) Bromoform                 | 13.03 | 173  | 205937   | 2.043 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 297505   | 2.107 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.15 | 43   | 140984   | 2.127 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 167073   | 1.948 | ppbv   | 94       |
| 53) Toluene                   | 9.80  | 91   | 561469   | 2.117 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 273388   | 2.089 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 202686   | 2.042 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.14 | 112  | 408697   | 2.079 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.71 | 91   | 754844   | 2.083 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.99 | 91   | 1273841m | 4.161 | ppbv   |          |
| 60) o-Xylene                  | 13.69 | 91   | 595803   | 2.099 | ppbv   | 99       |
| 61) Styrene                   | 13.52 | 104  | 301098   | 1.991 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.66 | 105  | 844431   | 2.096 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 420086   | 1.981 | ppbv   | 98       |
| 64) n-propylbenzene           | 15.55 | 120  | 210159   | 2.057 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 755369   | 2.124 | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.98 | 91   | 23748m   | 1.401 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.29 | 105  | 1052179  | 2.127 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 840921   | 2.173 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.54 | 91   | 798698   | 2.155 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 637830   | 2.164 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 686542   | 2.086 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 625833   | 2.070 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 679333   | 2.187 | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 359132   | 2.112 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 341278   | 1.991 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 345984   | 2.100 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 217979   | 2.115 | ppbv   | 99       |
| 79) Naphthalene               | 22.19 | 128  | 369979   | 2.257 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 24.98 | 142  | 82986    | 2.472 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 199924   | 2.144 | ppbv   | 97       |

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

