

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\  
 Data File : VL035098.D  
 Acq On : 19 Jun 2020 17:13  
 Operator : SY/AP  
 Sample : VSTDICCC001  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

Manual Integrations  
 APPROVED

MMDadoda  
 6/22/2020 2:08:59 PM

Quant Time: Jun 20 01:51:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 2020  
 QLast Update : Sat Jun 20 01:15:38 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1347102  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3157909  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2998042  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2525424  | 10.45    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.50% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.00 | 85   | 212441   | 1.096 | ppbv   | 95     |
| 3) Chlorodifluoromethane       | 2.94 | 51   | 159498   | 1.034 | ppbv   | 99     |
| 4) Chloromethane               | 3.09 | 50   | 88537    | 1.003 | ppbv   | 100    |
| 5) Vinyl Chloride              | 3.21 | 62   | 84160    | 0.979 | ppbv   | 91     |
| 6) Bromomethane                | 3.43 | 94   | 50777    | 0.987 | ppbv   | 95     |
| 7) Chloroethane                | 3.52 | 64   | 30935    | 1.003 | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85   | 209944   | 1.057 | ppbv   | 97     |
| 9) Propene                     | 2.96 | 41   | 59531    | 0.901 | ppbv   | 98     |
| 10) Heptane                    | 8.12 | 43   | 157535   | 0.951 | ppbv   | 94     |
| 11) Trichlorofluoromethane     | 3.91 | 101  | 215157   | 1.092 | ppbv   | 86     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101  | 143548   | 1.025 | ppbv   | 99     |
| 13) Ethanol                    | 3.57 | 45   | 26197m   | 1.226 | ppbv   |        |
| 14) Bromoethene                | 3.70 | 108  | 60867    | 1.050 | ppbv   | 98     |
| 15) Acetone                    | 3.82 | 43   | 185457   | 1.043 | ppbv   | 96     |
| 16) 1,3-Butadiene              | 3.29 | 39   | 73774m   | 0.963 | ppbv   |        |
| 17) tert-Butyl alcohol         | 4.26 | 59   | 157298   | 0.997 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.26 | 96   | 67094    | 1.103 | ppbv   | 95     |
| 19) Isopropyl Alcohol          | 3.93 | 45   | 119998m  | 1.024 | ppbv   |        |
| 20) Methylene Chloride         | 4.31 | 84   | 78344    | 1.332 | ppbv # | 93     |
| 21) Allyl Chloride             | 4.38 | 41   | 96305    | 0.962 | ppbv   | 93     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96   | 58777    | 0.986 | ppbv   | 96     |
| 23) Vinyl Acetate              | 5.05 | 43   | 198413   | 0.890 | ppbv # | 97     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 177333   | 1.020 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.66 | 43   | 311823   | 1.045 | ppbv   | 99     |
| 26) Hexane                     | 5.66 | 57   | 144483   | 1.116 | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.52 | 76   | 133538   | 0.884 | ppbv   | 96     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73   | 195802   | 0.996 | ppbv   | 100    |
| 29) Chloroform                 | 5.74 | 83   | 220400   | 1.037 | ppbv   | 99     |
| 30) Cyclohexane                | 7.12 | 84   | 92140    | 0.917 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 123190   | 0.971 | ppbv   | 89     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 193399   | 1.007 | ppbv   | 98     |
| 34) 2-Butanone                 | 5.22 | 43   | 190683   | 0.978 | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 186674   | 0.938 | ppbv   | 96     |
| 36) Benzene                    | 6.88 | 78   | 251428   | 0.967 | ppbv   | 95     |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 166639   | 1.037 | ppbv   | 99     |
| 38) Trichloroethene            | 7.83 | 130  | 97503m   | 0.964 | ppbv   |        |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 95050m   | 0.913 | ppbv   |        |
| 40) 1,4-Dioxane                | 7.85 | 88   | 44121m   | 1.063 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.05 | 42   | 90245m   | 0.882 | ppbv   |        |
| 42) Bromodichloromethane       | 7.79 | 83   | 197207   | 0.910 | ppbv   | 96     |
| 43) Methyl Methacrylate        | 8.02 | 69   | 102691   | 0.936 | ppbv   | 98     |

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 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 455143m  | 0.986 | ppbv   |          |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 88607m   | 0.805 | ppbv   |          |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 113659   | 0.839 | ppbv # | 89       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 110314m  | 1.000 | ppbv   |          |
| 48) Dibromochloromethane      | 10.32 | 129  | 152604   | 0.902 | ppbv   | 100      |
| 49) Bromoform                 | 13.07 | 173  | 125999   | 0.868 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 265545   | 0.956 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.16 | 43   | 194952   | 0.899 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.24 | 164  | 89736m   | 0.968 | ppbv   |          |
| 53) Toluene                   | 9.82  | 91   | 259278   | 0.940 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 163380   | 1.011 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 130655   | 0.977 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.17 | 112  | 251233m  | 1.067 | ppbv   |          |
| 58) Ethyl Benzene             | 12.73 | 91   | 355579   | 0.974 | ppbv   | 97       |
| 59) m/p-Xylene                | 13.01 | 91   | 647444m  | 2.012 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 319004   | 1.004 | ppbv   | 97       |
| 61) Styrene                   | 13.55 | 104  | 184157   | 0.918 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.69 | 105  | 489212   | 1.033 | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 252293   | 1.004 | ppbv   | 100      |
| 64) n-propylbenzene           | 15.59 | 120  | 117113   | 0.962 | ppbv   | 76       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 415307   | 1.008 | ppbv   | 96       |
| 66) Benzyl Chloride           | 17.02 | 91   | 98909    | 0.724 | ppbv # | 95       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 598886   | 1.020 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.68 | 119  | 468680   | 0.987 | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.58 | 91   | 512079   | 1.015 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 361459   | 1.010 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 356450   | 1.004 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 332497   | 0.966 | ppbv   | 90       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 385476   | 1.026 | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 236781   | 1.069 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 217615   | 1.035 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 215830   | 1.040 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 192273m  | 1.082 | ppbv   |          |
| 79) Naphthalene               | 22.26 | 128  | 312539   | 1.078 | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 94083    | 1.289 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 187302m  | 1.060 | ppbv   |          |
| -----                         |       |      |          |       |        |          |

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

