

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102820\  
 Data File : VD067426.D  
 Acq On : 28 Oct 2020 11:32  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/29/2020 12:00:51 PM

Quant Time: Oct 29 00:52:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 344760   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 507935   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 457363   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 229170   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 153001   | 44.30 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.60% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 163321   | 48.32 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.64% |      |
| 50) Toluene-d8            | 10.34  | 98  | 593579   | 48.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.04% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 197529   | 46.44 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.88% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.98 | 85  | 118021 | 41.943  | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50  | 85358  | 39.340  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 103668 | 43.546  | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 79150  | 47.667  | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64  | 64894  | 43.770  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 284422 | 47.445  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.71 | 74  | 62213  | 45.353  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 155855 | 48.935  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 150587 | 51.255  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 41115  | 224.263 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 138273 | 48.596  | ug/l   | 94     |
| 13) Acrolein                  | 3.92 | 56  | 41425  | 204.948 | ug/l   | 97     |
| 14) Allyl chloride            | 4.71 | 41  | 157706 | 48.399  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.42 | 53  | 109543 | 239.325 | ug/l   | 100    |
| 16) Acetone                   | 4.15 | 43  | 126758 | 262.043 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.41 | 76  | 337532 | 41.611  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 52604  | 47.678  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 272441 | 48.154  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.96 | 84  | 151184 | 48.673  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 159085 | 48.585  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.36 | 45  | 298816 | 50.200  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.30 | 43  | 863691 | 255.041 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 248571 | 48.784  | ug/l   | 97     |
| 25) 2-Butanone                | 7.21 | 43  | 132204 | 239.759 | ug/l # | 84     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 269035 | 51.226  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 177124 | 49.357  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.55 | 49  | 78100  | 44.938  | ug/l # | 97     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 76212  | 248.641 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 296714 | 48.746  | ug/l   | 93     |
| 31) Cyclohexane               | 7.98 | 56  | 185343 | 46.589  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 301653 | 50.509  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 216381 | 50.262  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 63090  | 49.809  | ug/l # | 94     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 281107 | 51.089  | ug/l   | 97     |

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 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/29/2020 12:00:51 PM

Quant Time: Oct 29 00:52:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 231675   | 51.476   | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 592522   | 50.169   | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.52  | 41   | 37389    | 54.625   | ug/l # | 58       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 180646   | 48.875   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 121904   | 48.503   | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 192209   | 50.830   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 137168   | 50.113   | ug/l   | 97       |
| 46) Dibromomethane             | 9.48  | 93   | 80871    | 47.420   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 229140   | 50.149   | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.46  | 41   | 59387    | 48.622   | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 18100    | 1099.751 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 315142   | 251.395  | ug/l   | 97       |
| 52) Toluene                    | 10.41 | 92   | 411203   | 51.118   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 200661   | 49.993   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 236991   | 50.452   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 115087   | 49.488   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 124537   | 51.636   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 184151   | 49.758   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 314808   | 254.436  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.99 | 43   | 217376   | 253.765  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 164002   | 48.357   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 109037   | 47.559   | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.88 | 164  | 165083   | 49.818   | ug/l   | 94       |
| 65) Chlorobenzene              | 11.67 | 112  | 449238   | 51.222   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 183224   | 52.563   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 795546   | 52.916   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 612807   | 105.849  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 278928   | 52.029   | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 479644   | 51.973   | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 93373    | 49.862   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 813182   | 55.909   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 109536   | 49.863   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 110025   | 49.370   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 69598m   | 43.817   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 184296   | 50.824   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.83 | 91   | 926781   | 54.996   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 517141   | 52.917   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 689371   | 54.542   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 35263    | 50.345   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 547916   | 52.825   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 590814   | 55.338   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 678326   | 54.300   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 803580   | 54.853   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 766893   | 55.461   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 365979   | 52.437   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 355831   | 51.458   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 676593   | 55.620   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 128092   | 53.085   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 312365   | 51.231   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 18984    | 46.889   | ug/l   | 96       |

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Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
10/29/2020 12:00:51 PM

Quant Time: Oct 29 00:52:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 19 19:13:29 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 222529   | 54.132 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 142845   | 55.956 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 359513   | 53.266 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 191848   | 54.020 | ug/l  | 99       |

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

