

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111020\  
 Data File : VD067573.D  
 Acq On : 10 Nov 2020 10:39  
 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  
 11/11/2020 1:04:07 PM

Quant Time: Nov 11 00:12:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 326551   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 454134   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 411704   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 209447   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 124883   | 43.74 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.48% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 133714   | 48.87 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.74% |      |
| 50) Toluene-d8              | 10.34  | 98  | 461342   | 47.98 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.96% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 164024   | 49.41 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.82% |      |

| Target Compounds              |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 132487 | 50.133  | ug/l | 92     |
| 3) Chloromethane              | 2.21 | 50  | 86535  | 42.555  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 99689  | 43.971  | ug/l | 100    |
| 5) Bromomethane               | 2.77 | 94  | 78869  | 42.920  | ug/l | 87     |
| 6) Chloroethane               | 2.93 | 64  | 63395  | 45.355  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 285062 | 48.560  | ug/l | 96     |
| 8) Diethyl Ether              | 3.71 | 74  | 55197  | 46.665  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 146056 | 49.291  | ug/l | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 155377 | 48.925  | ug/l | 98     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 36852  | 303.845 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 132990 | 48.794  | ug/l | 98     |
| 13) Acrolein                  | 3.92 | 56  | 32493  | 255.661 | ug/l | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 138412 | 47.450  | ug/l | 99     |
| 15) Acrylonitrile             | 5.42 | 53  | 103397 | 236.474 | ug/l | 98     |
| 16) Acetone                   | 4.16 | 43  | 115499 | 270.309 | ug/l | 92     |
| 17) Carbon Disulfide          | 4.41 | 76  | 385435 | 46.150  | ug/l | 99     |
| 18) Methyl Acetate            | 4.72 | 43  | 41447  | 46.941  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 269513 | 50.131  | ug/l | 94     |
| 20) Methylene Chloride        | 4.96 | 84  | 137135 | 45.435  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 149786 | 47.183  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.36 | 45  | 278544 | 49.001  | ug/l | 96     |
| 23) Vinyl Acetate             | 6.30 | 43  | 759440 | 255.227 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 221892 | 47.714  | ug/l | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 112569 | 246.557 | ug/l | 93     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 249319 | 50.798  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 160471 | 48.701  | ug/l | 97     |
| 28) Bromochloromethane        | 7.55 | 49  | 79846  | 48.269  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 69233  | 253.152 | ug/l | 100    |
| 30) Chloroform                | 7.71 | 83  | 270067 | 48.679  | ug/l | 100    |
| 31) Cyclohexane               | 7.99 | 56  | 189151 | 45.675  | ug/l | 89     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 279022 | 48.744  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 204564 | 52.623  | ug/l | 97     |
| 37) Ethyl Acetate             | 7.29 | 43  | 54235  | 53.740  | ug/l | 95     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 272672 | 53.987  | ug/l | 98     |

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

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 11/11/2020 1:04:07 PM

Quant Time: Nov 11 00:12:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 249728   | 54.582   | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 545745   | 51.829   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 32400    | 53.709   | ug/l # | 68       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 161754   | 49.719   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 103377   | 51.794   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 177388   | 51.234   | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 118413   | 52.013   | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 71858    | 49.642   | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.67  | 83   | 202695   | 51.518   | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.46  | 41   | 49832    | 48.355   | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 15935    | 1084.385 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 257409   | 269.664  | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 375468   | 53.236   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 173988   | 51.634   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 208029   | 51.961   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 99505    | 51.954   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 107674   | 54.441   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 159212   | 51.658   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 249316   | 270.313  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 184467   | 276.386  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 149210   | 52.665   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 98142    | 51.056   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 155329   | 50.943   | ug/l   | 96       |
| 65) Chlorobenzene              | 11.67 | 112  | 410586   | 51.773   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 164958   | 52.775   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 734670   | 54.136   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 559095   | 105.897  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 254189   | 53.925   | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 437090   | 53.214   | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 82689    | 51.871   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.48 | 105  | 736554   | 54.414   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 96117    | 53.964   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 94837    | 51.380   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 69326m   | 54.868   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 170923   | 51.416   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 838022   | 54.125   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 470662   | 53.514   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 630824   | 54.554   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 31426    | 50.497   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 487033   | 51.632   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 527243   | 53.800   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 619042   | 53.782   | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 724908   | 54.795   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 683310   | 53.487   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 329245   | 51.905   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 326951   | 50.903   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.84 | 91   | 604992   | 54.826   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 129804   | 53.954   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 279203   | 50.858   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 17369    | 53.147   | ug/l   | 97       |

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

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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MMDadoda  
11/11/2020 1:04:07 PM

Quant Time: Nov 11 00:12:55 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 198162   | 53.182 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 130256   | 52.233 | ug/l  | 100      |
| 95) Naphthalene            | 15.40 | 128  | 319592   | 55.579 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 172032   | 53.915 | ug/l  | 99       |

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

