

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101620\  
 Data File : VD067292.D  
 Acq On : 16 Oct 2020 11:55  
 Operator : VA/SY  
 Sample : VD1016SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1016SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/19/2020 11:09:27 AM

Quant Time: Oct 17 00:52:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:30:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 324381   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 485030   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 448838   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 230260   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 158204   | 48.68  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.36%  |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 163621   | 50.69  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.38% |          |
| 50) Toluene-d8              | 10.34 | 98   | 600520   | 51.41  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.82% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 211600   | 52.09  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.18% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85   | 58830    | 19.968  | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50   | 43607    | 21.360  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.35 | 62   | 43632    | 19.479  | ug/l   | 96     |
| 5) Bromomethane               | 2.76 | 94   | 33724    | 20.237  | ug/l   | 92     |
| 6) Chloroethane               | 2.92 | 64   | 28057    | 20.113  | ug/l # | 84     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 117521   | 20.836  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.71 | 74   | 25543    | 19.791  | ug/l   | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101  | 61062    | 20.376  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.29 | 142  | 48615    | 17.586  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 5.21 | 59   | 24669m   | 122.806 | ug/l   |        |
| 12) 1,1-Dichloroethene        | 4.06 | 96   | 54982    | 20.537  | ug/l   | 91     |
| 13) Acrolein                  | 3.92 | 56   | 11921    | 77.722  | ug/l   | 88     |
| 14) Allyl chloride            | 4.71 | 41   | 60959    | 19.883  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.43 | 53   | 44434    | 103.177 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43   | 48422    | 106.390 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.40 | 76   | 149874   | 19.637  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.72 | 43   | 20442    | 19.692  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73   | 107774   | 20.246  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.96 | 84   | 63389    | 18.956  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96   | 62149    | 20.173  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.36 | 45   | 119806   | 21.392  | ug/l   | 95     |
| 23) Vinyl Acetate             | 6.30 | 43   | 325431   | 102.134 | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 6.26 | 63   | 100897   | 21.046  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43   | 53945    | 103.978 | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 7.21 | 77   | 105339   | 21.317  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96   | 68840    | 20.388  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.55 | 49   | 33877    | 20.717  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.56 | 42   | 30478    | 105.681 | ug/l   | 95     |
| 30) Chloroform                | 7.71 | 83   | 120881   | 21.107  | ug/l # | 83     |
| 31) Cyclohexane               | 7.98 | 56   | 74106    | 19.798  | ug/l # | 91     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97   | 118017   | 21.002  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75   | 85895    | 20.894  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.29 | 43   | 24469    | 20.230  | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 8.10 | 117  | 111662   | 21.252  | ug/l   | 97     |

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 ALS Vial : 4 Sample Multiplier: 1

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Quant Time: Oct 17 00:52:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:30:30 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 88122    | 20.504  | ug/l   | 96       |
| 40) Benzene                    | 8.36  | 78   | 236326   | 20.955  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.51  | 41   | 10037    | 15.356  | ug/l # | 61       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 74222    | 21.030  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 47925    | 19.969  | ug/l   | 97       |
| 44) Trichloroethene            | 9.11  | 130  | 74985    | 20.766  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 55210    | 21.123  | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 33658    | 20.668  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.67  | 83   | 90707    | 20.789  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 24782    | 21.248  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 6616     | 401.638 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 122641   | 102.453 | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 162124   | 21.106  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 78418    | 20.460  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 94720    | 21.117  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 47251    | 21.278  | ug/l   | 91       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 45295    | 19.667  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 72722    | 20.578  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 122816   | 103.951 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 86655    | 105.938 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.15 | 129  | 70548    | 21.784  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 45336    | 20.708  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 69770    | 21.455  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 179703   | 20.879  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 74986    | 21.921  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 306635   | 20.783  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 244856   | 43.097  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 108114   | 20.550  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 192306   | 21.234  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 39947    | 21.737  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.48 | 105  | 307154   | 21.018  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 44539    | 20.179  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 47226    | 21.091  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 35102m   | 21.995  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 76501    | 20.997  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.83 | 91   | 359784   | 21.249  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 205080   | 20.886  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 269891   | 21.252  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 14120    | 20.064  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 223135   | 21.411  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 227444   | 21.202  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 271277   | 21.613  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 308856   | 20.983  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 292016   | 21.018  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 149087   | 21.260  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 144146   | 20.747  | ug/l   | 96       |
| 89) n-Butylbenzene             | 13.85 | 91   | 257166   | 21.040  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.12 | 117  | 51621    | 21.292  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 129640   | 21.162  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 7476     | 18.378  | ug/l   | 97       |

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Sample : VD1016SBS01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1016SBS01

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10/19/2020 11:09:27 AM

Quant Time: Oct 17 00:52:25 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 14 03:30:30 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 88752    | 21.487 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 54700    | 21.326 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 130256   | 19.208 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 76204    | 21.356 | ug/l  | 97       |

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

