

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081418\  
 Data File : VD059765.D  
 Acq On : 14 Aug 2018 14:28  
 Operator : VA/AP  
 Sample : VD0814SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0814SBS01

Quant Time: Aug 14 15:33:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081018S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 11 05:42:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 249816   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 323113   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 252517   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 148657   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.02  | 65   | 162266   | 41.50  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 83.00%  |          |
| 35) Dibromofluoromethane    | 5.54  | 113  | 144076   | 43.30  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 86.60%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 338487   | 51.29  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.58% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 150003   | 45.32  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 90.64%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.33 | 85   | 61579    | 16.48  | ug/l  | 90     |
| 3) Chloromethane              | 1.47 | 50   | 34661    | 24.48  | ug/l  | # 87   |
| 4) Vinyl Chloride             | 1.55 | 62   | 36818    | 20.59  | ug/l  | 99     |
| 5) Bromomethane               | 1.78 | 94   | 7617     | 10.14  | ug/l  | 91     |
| 6) Chloroethane               | 1.87 | 64   | 11694    | 12.70  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 2.07 | 101  | 56136    | 14.63  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.34 | 74   | 11236    | 18.13  | ug/l  | 84     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.54 | 101  | 32827    | 16.69  | ug/l  | 97     |
| 10) Methyl Iodide             | 2.68 | 142  | 29480    | 14.79  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.26 | 59   | 12098    | 89.28  | ug/l  | # 84   |
| 12) 1,1-Dichloroethene        | 2.53 | 96   | 24713    | 17.57  | ug/l  | 97     |
| 13) Acrolein                  | 2.47 | 56   | 8592     | 106.46 | ug/l  | 95     |
| 14) Allyl chloride            | 2.92 | 41   | 58373    | 18.78  | ug/l  | 93     |
| 15) Acrylonitrile             | 3.35 | 53   | 43415    | 129.60 | ug/l  | 88     |
| 16) Acetone                   | 2.60 | 43   | 54442    | 85.23  | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.75 | 76   | 73006    | 15.49  | ug/l  | 98     |
| 18) Methyl Acetate            | 2.93 | 43   | 20599    | 16.98  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.40 | 73   | 113664   | 20.65  | ug/l  | 99     |
| 20) Methylene Chloride        | 3.07 | 84   | 31446    | 17.05  | ug/l  | 95     |
| 21) trans-1,2-Dichloroethene  | 3.38 | 96   | 47414    | 26.59  | ug/l  | 83     |
| 22) Diisopropyl ether         | 4.07 | 45   | 150744   | 25.65  | ug/l  | # 81   |
| 23) Vinyl Acetate             | 4.01 | 43   | 469648   | 118.09 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 3.96 | 63   | 90929    | 20.95  | ug/l  | 99     |
| 25) 2-Butanone                | 4.84 | 43   | 74609    | 108.67 | ug/l  | # 91   |
| 26) 2,2-Dichloropropane       | 4.80 | 77   | 89378    | 17.61  | ug/l  | 90     |
| 27) cis-1,2-Dichloroethene    | 4.80 | 96   | 49637    | 23.01  | ug/l  | 81     |
| 28) Bromochloromethane        | 5.14 | 49   | 39276    | 25.13  | ug/l  | # 92   |
| 29) Tetrahydrofuran           | 5.18 | 42   | 33529    | 130.61 | ug/l  | 97     |
| 30) Chloroform                | 5.32 | 83   | 102993   | 17.96  | ug/l  | 99     |
| 31) Cyclohexane               | 5.58 | 56   | 64000    | 25.40  | ug/l  | # 90   |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97   | 94647    | 15.92  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.74 | 75   | 71443    | 19.05  | ug/l  | 92     |
| 37) Ethyl Acetate             | 4.92 | 43   | 33831    | 20.51  | ug/l  | # 94   |
| 38) Carbon Tetrachloride      | 5.72 | 117  | 83135    | 14.09  | ug/l  | 98     |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VD0814SBS01

Quant Time: Aug 14 15:33:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081018S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 11 05:42:24 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.28  | 83   | 59978    | 21.58  | ug/l   | 97       |
| 40) Benzene                    | 6.02  | 78   | 145348   | 22.24  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.11  | 41   | 15275    | 19.70  | ug/l # | 88       |
| 42) 1,2-Dichloroethane         | 6.13  | 62   | 77206    | 14.90  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 7.61  | 43   | 41407    | 19.93  | ug/l # | 89       |
| 44) Trichloroethene            | 6.98  | 130  | 49379    | 18.73  | ug/l   | 82       |
| 45) 1,2-Dichloropropane        | 7.34  | 63   | 36949    | 22.20  | ug/l   | 97       |
| 46) Dibromomethane             | 7.46  | 93   | 30518    | 17.26  | ug/l   | 93       |
| 47) Bromodichloromethane       | 7.74  | 83   | 76680    | 16.42  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.50  | 41   | 30016    | 19.79  | ug/l # | 81       |
| 49) 1,4-Dioxane                | 7.49  | 88   | 5626     | 524.69 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 145471   | 90.82  | ug/l   | 94       |
| 52) Toluene                    | 8.80  | 92   | 95850    | 22.81  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.18  | 75   | 62792    | 16.73  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.36  | 75   | 65005    | 18.04  | ug/l   | 88       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 33162    | 20.01  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.31  | 69   | 36548    | 19.35  | ug/l # | 79       |
| 57) 1,3-Dichloropropane        | 9.67  | 76   | 50563    | 18.33  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 8.19  | 63   | 103600   | 118.46 | ug/l   | 95       |
| 59) 2-Hexanone                 | 9.78  | 43   | 112429   | 93.79  | ug/l   | 91       |
| 60) Dibromochloromethane       | 9.95  | 129  | 49278    | 15.41  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 38575    | 18.61  | ug/l   | 95       |
| 64) Tetrachloroethene          | 9.51  | 164  | 44757    | 18.06  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.72 | 112  | 110286   | 21.40  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.85 | 131  | 46093    | 17.66  | ug/l   | 95       |
| 67) Ethyl Benzene              | 10.86 | 91   | 196075   | 20.31  | ug/l   | 94       |
| 68) m/p-Xylenes                | 11.01 | 106  | 136478   | 44.09  | ug/l   | 82       |
| 69) o-Xylene                   | 11.41 | 106  | 65503    | 21.76  | ug/l   | 83       |
| 70) Styrene                    | 11.43 | 104  | 108868   | 22.08  | ug/l   | 94       |
| 71) Bromoform                  | 11.60 | 173  | 34026    | 17.23  | ug/l   | 97       |
| 73) Isopropylbenzene           | 11.77 | 105  | 189714   | 18.78  | ug/l   | 95       |
| 74) N-amyl acetate             | 11.64 | 43   | 59637    | 20.60  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 40556    | 22.01  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 44745    | 20.35  | ug/l   | 99       |
| 77) Bromobenzene               | 12.04 | 156  | 58090    | 19.69  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.16 | 91   | 257800   | 21.01  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 149266   | 19.21  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.32 | 105  | 163556   | 18.69  | ug/l   | 91       |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 10996    | 22.20  | ug/l   | 80       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 179078   | 19.55  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.58 | 119  | 179568   | 18.87  | ug/l   | 86       |
| 84) 1,2,4-Trimethylbenzene     | 12.63 | 105  | 168110   | 18.62  | ug/l   | 90       |
| 85) sec-Butylbenzene           | 12.76 | 105  | 204259   | 20.19  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 180632   | 19.81  | ug/l   | 92       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 98299    | 19.68  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 98562    | 19.74  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.20 | 91   | 181489   | 20.14  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.39 | 117  | 42275    | 17.87  | ug/l   | 73       |
| 91) 1,2-Dichlorobenzene        | 13.20 | 146  | 85210    | 20.08  | ug/l   | 92       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 6909     | 15.05  | ug/l   | 79       |

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Sample : VD0814SBS01  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0814SBS01

Quant Time: Aug 14 15:33:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081018S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 11 05:42:24 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 74057    | 18.39 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.44 | 225  | 52483    | 15.55 | ug/l  | 98       |
| 95) Naphthalene            | 14.52 | 128  | 107208   | 19.77 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 58506    | 16.99 | ug/l  | 95       |

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

