

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070120\  
 Data File : VD065902.D  
 Acq On : 01 Jul 2020 13:05  
 Operator : VA/SY  
 Sample : VD0701SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0701SBS01

Quant Time: Jul 02 05:04:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 19:16:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 158828   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 268377   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 238240   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 109990   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 81709    | 49.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.04% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 78058    | 47.06 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.12% |      |
| 50) Toluene-d8            | 10.34  | 98  | 290771   | 46.60 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.20% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 98141    | 48.01 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.02% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 36814  | 24.240  | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50  | 48631  | 23.041  | ug/l   | 92     |
| 4) Vinyl Chloride             | 2.35 | 62  | 49964  | 21.340  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 31585  | 20.625  | ug/l   | 97     |
| 6) Chloroethane               | 2.92 | 64  | 29881  | 20.239  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 69256  | 23.466  | ug/l   | 92     |
| 8) Diethyl Ether              | 3.71 | 74  | 16041  | 20.674  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 36652  | 22.037  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 33697  | 20.564  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 12630  | 148.464 | ug/l # | 82     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 33744  | 21.767  | ug/l # | 88     |
| 13) Acrolein                  | 3.93 | 56  | 10885  | 90.769  | ug/l   | 98     |
| 14) Allyl chloride            | 4.72 | 41  | 54175  | 22.154  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.42 | 53  | 35181  | 106.663 | ug/l   | 99     |
| 16) Acetone                   | 4.16 | 43  | 34176  | 105.713 | ug/l   | 93     |
| 17) Carbon Disulfide          | 4.40 | 76  | 114554 | 21.872  | ug/l   | 96     |
| 18) Methyl Acetate            | 4.71 | 43  | 14704  | 20.512  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 72029  | 21.189  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.97 | 84  | 46850  | 25.079  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 38600  | 21.745  | ug/l   | 95     |
| 22) Diisopropyl ether         | 6.36 | 45  | 109415 | 21.454  | ug/l # | 98     |
| 23) Vinyl Acetate             | 6.31 | 43  | 313941 | 106.506 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 67776  | 22.276  | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 45895  | 106.377 | ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 62501  | 22.384  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 40432  | 20.585  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.55 | 49  | 22939  | 20.063  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 27890  | 101.767 | ug/l   | 95     |
| 30) Chloroform                | 7.71 | 83  | 68875  | 21.142  | ug/l   | 98     |
| 31) Cyclohexane               | 7.99 | 56  | 63891  | 21.615  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 66489  | 22.242  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 54431  | 20.799  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.30 | 43  | 21492  | 21.478  | ug/l # | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 59524  | 21.063  | ug/l   | 98     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 19:16:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 64122    | 20.622  | ug/l   | 95       |
| 40) Benzene                    | 8.35  | 78   | 146889   | 20.231  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.53  | 41   | 11619m   | 21.164  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 45110    | 21.061  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 38384    | 19.796  | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 40187    | 20.432  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 36299    | 20.871  | ug/l   | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 19978    | 20.722  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.66  | 83   | 54044    | 21.096  | ug/l # | 91       |
| 48) Methyl methacrylate        | 9.46  | 41   | 20297    | 21.355  | ug/l   | 89       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 3877     | 393.127 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 102069   | 102.122 | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 92664    | 19.630  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 49084    | 20.072  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 58919    | 20.519  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 25312    | 19.812  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 30246    | 19.066  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 45188    | 20.163  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 69476    | 99.913  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 68711    | 98.076  | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.14 | 129  | 33145    | 18.993  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 24334    | 19.460  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 32057    | 20.606  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 97137    | 20.555  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 35850    | 20.364  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.75 | 91   | 176045   | 20.058  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 136208   | 40.761  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 58922    | 19.622  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 107213   | 20.419  | ug/l   | 98       |
| 71) Bromoform                  | 12.36 | 173  | 18809    | 20.119  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 168475   | 21.386  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 36544    | 20.996  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 26964    | 20.794  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 19401m   | 20.158  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 37912    | 21.405  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 205961   | 21.701  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 113386   | 21.690  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 139897   | 21.243  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 8586     | 19.166  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 120644   | 21.596  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 122388   | 22.083  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 140635   | 21.679  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 168810   | 21.374  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 155141   | 21.626  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 73324    | 21.308  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 73790    | 21.314  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 148133   | 21.176  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 32509    | 22.206  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 61807    | 20.502  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 4642     | 23.110  | ug/l   | 98       |

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Sample : VD0701SBS01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0701SBS01

Quant Time: Jul 02 05:04:06 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 26 19:16:07 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 39465    | 20.650 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 23876    | 21.903 | ug/l  | 97       |
| 95) Naphthalene            | 15.40 | 128  | 70659    | 20.592 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 34956    | 21.919 | ug/l  | 97       |

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

