

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052620\  
 Data File : VD065757.D  
 Acq On : 26 May 2020 13:01  
 Operator : VA/SY  
 Sample : VD0526SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0526SBS01

Quant Time: May 27 04:02:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 286338   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 440030   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 391144   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 194469   | 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   | 123630   | 53.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.16% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 126146   | 50.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.20% |          |
| 50) Toluene-d8              | 10.34 | 98   | 483979   | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 161455   | 50.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.46% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85   | 37609    | 20.019  | ug/l  | 94     |
| 3) Chloromethane              | 2.21 | 50   | 61179    | 22.722  | ug/l  | 97     |
| 4) Vinyl Chloride             | 2.35 | 62   | 68524    | 23.504  | ug/l  | 98     |
| 5) Bromomethane               | 2.76 | 94   | 48414    | 25.134  | ug/l  | 90     |
| 6) Chloroethane               | 2.92 | 64   | 46525    | 24.604  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 92922    | 23.055  | ug/l  | 95     |
| 8) Diethyl Ether              | 3.71 | 74   | 24653    | 21.288  | ug/l  | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101  | 54815    | 22.126  | ug/l  | 97     |
| 10) Methyl Iodide             | 4.30 | 142  | 51309    | 19.826  | ug/l  | 95     |
| 11) Tert butyl alcohol        | 5.22 | 59   | 21469    | 76.252  | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 4.07 | 96   | 52462    | 22.327  | ug/l  | 92     |
| 13) Acrolein                  | 3.91 | 56   | 13278    | 92.676  | ug/l  | 98     |
| 14) Allyl chloride            | 4.71 | 41   | 87191    | 21.461  | ug/l  | 98     |
| 15) Acrylonitrile             | 5.42 | 53   | 54367    | 106.268 | ug/l  | 99     |
| 16) Acetone                   | 4.15 | 43   | 50912    | 107.568 | ug/l  | 95     |
| 17) Carbon Disulfide          | 4.41 | 76   | 163098   | 21.977  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.72 | 43   | 26114    | 22.016  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73   | 115303   | 21.033  | ug/l  | 98     |
| 20) Methylene Chloride        | 4.97 | 84   | 56527    | 21.169  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96   | 58540    | 21.638  | ug/l  | 96     |
| 22) Diisopropyl ether         | 6.36 | 45   | 173146   | 22.386  | ug/l  | 97     |
| 23) Vinyl Acetate             | 6.30 | 43   | 470318   | 103.381 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63   | 102809   | 22.702  | ug/l  | 98     |
| 25) 2-Butanone                | 7.21 | 43   | 68340    | 101.009 | ug/l  | # 89   |
| 26) 2,2-Dichloropropane       | 7.20 | 77   | 95856    | 22.805  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96   | 65719    | 22.167  | ug/l  | 97     |
| 28) Bromochloromethane        | 7.54 | 49   | 40554    | 21.780  | ug/l  | 95     |
| 29) Tetrahydrofuran           | 7.56 | 42   | 43566    | 101.561 | ug/l  | 97     |
| 30) Chloroform                | 7.71 | 83   | 104777   | 22.893  | ug/l  | 96     |
| 31) Cyclohexane               | 7.98 | 56   | 97651    | 21.302  | ug/l  | 93     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97   | 98714    | 23.024  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75   | 85313    | 22.325  | ug/l  | 98     |
| 37) Ethyl Acetate             | 7.29 | 43   | 33020    | 20.170  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117  | 88497    | 21.834  | ug/l  | 93     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 104283   | 21.294  | ug/l   | 100      |
| 40) Benzene                    | 8.35  | 78   | 230013   | 21.889  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 17898m   | 19.851  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 66365    | 22.683  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 64284    | 19.811  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 67958    | 21.602  | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 55958    | 21.598  | ug/l   | 94       |
| 46) Dibromomethane             | 9.48  | 93   | 31056    | 22.230  | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.66  | 83   | 82020    | 22.430  | ug/l   | 93       |
| 48) Methyl methacrylate        | 9.46  | 41   | 31302    | 20.551  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 6110     | 370.672 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 156397   | 100.719 | ug/l   | 98       |
| 52) Toluene                    | 10.41 | 92   | 151075   | 21.945  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 75094    | 21.021  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 91677    | 21.575  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 40159    | 21.101  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 48154    | 19.413  | ug/l   | 92       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 71742    | 21.673  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 112990   | 97.911  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 104268   | 98.606  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 54435    | 21.359  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 40684    | 21.404  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 58008    | 21.447  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.67 | 112  | 162122   | 21.995  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 58049    | 21.036  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 291211   | 22.158  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 222514   | 44.329  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 100435   | 21.494  | ug/l   | 95       |
| 70) Styrene                    | 12.20 | 104  | 173427   | 21.748  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 30466    | 20.003  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 281967   | 21.597  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.30 | 43   | 59056    | 19.483  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 43688    | 21.143  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 27379m   | 18.865  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 65635    | 20.857  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.83 | 91   | 332490   | 21.802  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 185902   | 22.031  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 232183   | 21.584  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 13172    | 17.805  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 192038   | 21.586  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 202281   | 21.206  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 230446   | 21.722  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 282650   | 21.776  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 256705   | 21.517  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 123584   | 20.939  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 126083   | 21.447  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 240939   | 21.597  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.12 | 117  | 49555    | 21.231  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 109317   | 21.413  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 7135     | 20.649  | ug/l   | 87       |

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Sample : VD0526SBS01  
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ALS Vial : 4 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
VD0526SBS01

Quant Time: May 27 04:02:39 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 13 14:28:42 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 77047    | 19.839 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 47338    | 20.331 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 120359   | 18.633 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 65616    | 19.816 | ug/l  | 99       |

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

