

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061920\  
 Data File : VD065826.D  
 Acq On : 19 Jun 2020 14:01  
 Operator : VA/SY  
 Sample : VD0619SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0619SBS01

Quant Time: Jun 20 01:45:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 185847   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 294165   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 271121   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 141653   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 99428    | 54.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.28% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 96172    | 51.76 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.52% |      |
| 50) Toluene-d8              | 10.34  | 98  | 370841   | 53.52 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.04% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 122516   | 52.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.28% |      |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.98 | 85  | 30803  | 22.470  | ug/l   | 94     |
| 3) Chloromethane              | 2.21 | 50  | 55740  | 23.764  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 65455  | 23.872  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 43518  | 22.695  | ug/l   | 96     |
| 6) Chloroethane               | 2.92 | 64  | 42465  | 22.905  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 70166  | 22.586  | ug/l   | 91     |
| 8) Diethyl Ether              | 3.71 | 74  | 17507  | 21.435  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 40392  | 21.805  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.30 | 142 | 36661  | 20.324  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 10833  | 81.220  | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 36983  | 21.905  | ug/l   | 96     |
| 13) Acrolein                  | 3.93 | 56  | 8148   | 78.993  | ug/l   | 92     |
| 14) Allyl chloride            | 4.71 | 41  | 59421  | 21.294  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.42 | 53  | 37943  | 102.284 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 37419  | 108.020 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.41 | 76  | 119297 | 21.053  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.72 | 43  | 18355  | 21.415  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 77828  | 20.352  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.96 | 84  | 49526  | 24.667  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.48 | 96  | 42571  | 21.531  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.36 | 45  | 122750 | 21.771  | ug/l   | 93     |
| 23) Vinyl Acetate             | 6.31 | 43  | 336284 | 105.623 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 73590  | 21.421  | ug/l # | 96     |
| 25) 2-Butanone                | 7.21 | 43  | 50781  | 106.146 | ug/l # | 88     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 64556  | 21.193  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 44828  | 21.077  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 28296  | 21.326  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.56 | 42  | 31888  | 105.462 | ug/l   | 94     |
| 30) Chloroform                | 7.71 | 83  | 75657  | 21.247  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 69816  | 21.199  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 68744  | 20.996  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 59666  | 21.174  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.29 | 43  | 23074  | 20.789  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 62500  | 21.075  | ug/l   | 96     |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD0619SBS01

Quant Time: Jun 20 01:45:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 70700    | 21.191  | ug/l   | 95       |
| 40) Benzene                    | 8.35  | 78   | 164622   | 21.370  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.53  | 41   | 12967    | 19.620  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 47735    | 20.537  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 43551    | 19.732  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 44164    | 20.601  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 41095    | 21.231  | ug/l   | 97       |
| 46) Dibromomethane             | 9.48  | 93   | 21434    | 20.417  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.66  | 83   | 57196    | 20.332  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.46  | 41   | 19570    | 18.318  | ug/l   | 88       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 4960     | 443.893 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 108649   | 100.460 | ug/l   | 97       |
| 52) Toluene                    | 10.41 | 92   | 106086   | 21.194  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 52768    | 20.714  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 63325    | 21.048  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 27610    | 19.683  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 32796    | 19.878  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 49347    | 20.306  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 83646    | 109.049 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 74851    | 102.656 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 38004    | 20.056  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 28618    | 20.760  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 37546    | 20.480  | ug/l   | 92       |
| 65) Chlorobenzene              | 11.67 | 112  | 110204   | 20.821  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 40644    | 20.601  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 198949   | 21.041  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.85 | 106  | 155940   | 42.816  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 68554    | 20.876  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 118230   | 20.798  | ug/l   | 97       |
| 71) Bromoform                  | 12.37 | 173  | 21626    | 19.905  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 190840   | 20.094  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 40678    | 19.252  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 32607    | 20.329  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 28765m   | 26.111  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 45494    | 20.246  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 235945   | 20.639  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 130038   | 20.735  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 162068   | 20.506  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 10557    | 20.705  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 138616   | 20.592  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 139815   | 20.388  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 161785   | 20.452  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 195224   | 20.456  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 178056   | 20.356  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 89483    | 20.196  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 87281    | 19.803  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.85 | 91   | 170715   | 20.463  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 36265    | 20.712  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 76054    | 19.946  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 5255     | 19.687  | ug/l   | 85       |

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Sample : VD0619SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0619SBSD01

Quant Time: Jun 20 01:45:02 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 05 13:07:30 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 49203    | 18.978 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 28602    | 18.250 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 79913    | 18.197 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 41596    | 18.628 | ug/l  | 98       |

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

