

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030519\  
 Data File : VD060941.D  
 Acq On : 5 Mar 2019 11:19  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 06 04:15:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030119S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 02 01:28:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 717571   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 1274482  | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 1018414  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 446402   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 318806   | 53.74 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 107.48% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 502399   | 49.17 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 98.34%  |          |
| 50) Toluene-d8              | 10.42 | 98   | 1282359  | 50.44 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 100.88% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 459220   | 47.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.60%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85   | 411567   | 51.763  | ug/l   | 99     |
| 3) Chloromethane              | 1.76 | 50   | 310794   | 47.104  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.86 | 62   | 300028   | 50.331  | ug/l   | 99     |
| 5) Bromomethane               | 2.17 | 94   | 53571    | 50.877  | ug/l   | 98     |
| 6) Chloroethane               | 2.29 | 64   | 83329    | 58.021  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 2.54 | 101  | 411353   | 57.492  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.89 | 74   | 153025   | 48.489  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101  | 525987   | 54.198  | ug/l   | 97     |
| 10) Methyl Iodide             | 3.32 | 142  | 699798   | 50.077  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 4.08 | 59   | 123000   | 278.202 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 3.14 | 96   | 433985   | 52.719  | ug/l   | 93     |
| 13) Acrolein                  | 3.04 | 56   | 122316   | 199.777 | ug/l   | 99     |
| 14) Allyl chloride            | 3.64 | 41   | 694759   | 51.743  | ug/l   | 98     |
| 15) Acrylonitrile             | 4.21 | 53   | 407372   | 240.639 | ug/l   | 99     |
| 16) Acetone                   | 3.23 | 43   | 599685   | 302.772 | ug/l   | 95     |
| 17) Carbon Disulfide          | 3.39 | 76   | 1476098  | 50.585  | ug/l   | 100    |
| 18) Methyl Acetate            | 3.65 | 43   | 203570   | 50.195  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.26 | 73   | 754727   | 52.124  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.83 | 84   | 440439   | 46.602  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 4.24 | 96   | 473104   | 52.791  | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.14 | 45   | 1390865  | 48.784  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.07 | 43   | 3722555  | 248.630 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.00 | 63   | 756285   | 49.737  | ug/l   | 99     |
| 25) 2-Butanone                | 6.09 | 43   | 624051   | 253.987 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.04 | 77   | 609923   | 53.996  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 6.06 | 96   | 495857   | 48.799  | ug/l   | 99     |
| 28) Bromochloromethane        | 6.45 | 49   | 320360   | 50.159  | ug/l # | 94     |
| 29) Tetrahydrofuran           | 6.46 | 42   | 293804   | 232.311 | ug/l   | 99     |
| 30) Chloroform                | 6.68 | 83   | 766832   | 51.997  | ug/l   | 99     |
| 31) Cyclohexane               | 6.96 | 56   | 677058   | 51.699  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.88 | 97   | 667076   | 52.824  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.16 | 75   | 610369   | 52.088  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.19 | 43   | 272497   | 45.237  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.12 | 117  | 719997   | 57.192  | ug/l   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030519\  
 Data File : VD060941.D  
 Acq On : 5 Mar 2019 11:19  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 06 04:15:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030119S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 02 01:28:28 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 8.87  | 83   | 683590   | 53.368  | ug/l  | 97       |
| 40) Benzene                    | 7.46  | 78   | 1510296  | 50.609  | ug/l  | 100      |
| 41) Methacrylonitrile          | 6.46  | 41   | 190458m  | 50.610  | ug/l  |          |
| 42) 1,2-Dichloroethane         | 7.59  | 62   | 426302   | 50.771  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 9.25  | 43   | 397605   | 47.340  | ug/l  | 98       |
| 44) Trichloroethene            | 8.55  | 130  | 528630   | 51.725  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 8.95  | 63   | 396379   | 50.171  | ug/l  | 97       |
| 46) Dibromomethane             | 9.07  | 93   | 254410   | 49.924  | ug/l  | 98       |
| 47) Bromodichloromethane       | 9.38  | 83   | 550777   | 49.548  | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.13  | 41   | 225723   | 47.836  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 48081    | 973.335 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.31 | 43   | 1298633  | 253.963 | ug/l  | 100      |
| 52) Toluene                    | 10.52 | 92   | 921305   | 48.053  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 10.92 | 75   | 529474   | 51.761  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 10.04 | 75   | 660521   | 52.074  | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 320135   | 50.491  | ug/l  | 100      |
| 56) Ethyl methacrylate         | 11.05 | 69   | 337952   | 50.279  | ug/l  | 96       |
| 57) 1,3-Dichloropropane        | 11.41 | 76   | 466238   | 50.577  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 872150   | 242.953 | ug/l  | 100      |
| 59) 2-Hexanone                 | 11.54 | 43   | 885384   | 247.002 | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.69 | 129  | 476241   | 52.080  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 353153   | 47.412  | ug/l  | 95       |
| 64) Tetrachloroethene          | 11.26 | 164  | 406395   | 52.129  | ug/l  | 98       |
| 65) Chlorobenzene              | 12.41 | 112  | 1061364  | 46.810  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 437200   | 53.733  | ug/l  | 98       |
| 67) Ethyl Benzene              | 12.52 | 91   | 1829454  | 55.414  | ug/l  | 99       |
| 68) m/p-Xylenes                | 12.67 | 106  | 1257920  | 95.367  | ug/l  | 95       |
| 69) o-Xylene                   | 13.06 | 106  | 641080   | 51.740  | ug/l  | 94       |
| 70) Styrene                    | 13.08 | 104  | 1006021  | 48.665  | ug/l  | 98       |
| 71) Bromoform                  | 13.23 | 173  | 261800   | 50.836  | ug/l  | 99       |
| 73) Isopropylbenzene           | 13.41 | 105  | 1615005  | 46.825  | ug/l  | 99       |
| 74) N-amyl acetate             | 13.27 | 43   | 503206   | 48.842  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 362999   | 50.747  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 382225   | 52.845  | ug/l  | 99       |
| 77) Bromobenzene               | 13.68 | 156  | 459488   | 50.969  | ug/l  | 99       |
| 78) n-propylbenzene            | 13.77 | 91   | 2077459  | 52.354  | ug/l  | 98       |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 1101680  | 48.613  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 14.24 | 105  | 1446019  | 55.284  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 115674   | 54.038  | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 1279159  | 51.462  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 14.20 | 119  | 1613191  | 53.868  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 1446019  | 55.284  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 1848935  | 53.256  | ug/l  | 94       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 1367334  | 48.353  | ug/l  | 98       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 828699   | 54.107  | ug/l  | 95       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 835808   | 54.951  | ug/l  | 99       |
| 89) n-Butylbenzene             | 14.80 | 91   | 1332442  | 55.316  | ug/l  | 100      |
| 90) Hexachloroethane           | 15.02 | 117  | 440605   | 54.027  | ug/l  | 96       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 652952   | 49.205  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 46282    | 55.294  | ug/l  | 62       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030519\  
Data File : VD060941.D  
Acq On : 5 Mar 2019 11:19  
Operator : VA/AP  
Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Quant Time: Mar 06 04:15:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030119S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 02 01:28:28 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.95 | 180  | 376682   | 48.886 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 269099   | 54.411 | ug/l  | 98       |
| 95) Naphthalene            | 16.13 | 128  | 511263   | 42.609 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 204550   | 47.271 | ug/l  | 100      |

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

