

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\  
 Data File : VD061737.D  
 Acq On : 11 Apr 2019 13:29  
 Operator : VA/AP  
 Sample : VD0411SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0411SBS01

Quant Time: Apr 12 00:58:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 640824   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1052025  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 826559   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 390499   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 212389   | 43.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 87.44% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 305543   | 41.92 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 83.84% |          |
| 50) Toluene-d8              | 10.41 | 98   | 728255   | 39.77 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 79.54% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 288375   | 43.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 87.24% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85   | 134179   | 19.408  | ug/l  | 96     |
| 3) Chloromethane              | 1.75 | 50   | 119393   | 21.371  | ug/l  | 95     |
| 4) Vinyl Chloride             | 1.85 | 62   | 115415   | 22.108  | ug/l  | 99     |
| 5) Bromomethane               | 2.15 | 94   | 21255    | 17.591  | ug/l  | 96     |
| 6) Chloroethane               | 2.25 | 64   | 32997    | 20.180  | ug/l  | 93     |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 169581   | 21.514  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.86 | 74   | 44433    | 20.086  | ug/l  | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.15 | 101  | 165460   | 21.352  | ug/l  | 98     |
| 10) Methyl Iodide             | 3.31 | 142  | 205317   | 20.123  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 4.06 | 59   | 31552    | 96.923  | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 3.13 | 96   | 140321   | 21.005  | ug/l  | 99     |
| 13) Acrolein                  | 3.03 | 56   | 26080    | 65.709  | ug/l  | 93     |
| 14) Allyl chloride            | 3.62 | 41   | 180496   | 19.809  | ug/l  | 97     |
| 15) Acrylonitrile             | 4.19 | 53   | 114225   | 101.931 | ug/l  | 93     |
| 16) Acetone                   | 3.22 | 43   | 136081   | 93.717  | ug/l  | 100    |
| 17) Carbon Disulfide          | 3.38 | 76   | 433576   | 19.974  | ug/l  | 99     |
| 18) Methyl Acetate            | 3.63 | 43   | 57849    | 21.175  | ug/l  | 96     |
| 19) Methyl tert-butyl Ether   | 4.22 | 73   | 247149   | 21.366  | ug/l  | 98     |
| 20) Methylene Chloride        | 3.81 | 84   | 187991   | 22.815  | ug/l  | 94     |
| 21) trans-1,2-Dichloroethene  | 4.21 | 96   | 154085   | 21.236  | ug/l  | 96     |
| 22) Diisopropyl ether         | 5.11 | 45   | 398073   | 20.838  | ug/l  | 96     |
| 23) Vinyl Acetate             | 5.05 | 43   | 1082956  | 102.738 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 4.98 | 63   | 245631   | 20.983  | ug/l  | 99     |
| 25) 2-Butanone                | 6.06 | 43   | 156242   | 93.337  | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 6.01 | 77   | 207764   | 21.796  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 6.03 | 96   | 159037   | 20.546  | ug/l  | 93     |
| 28) Bromochloromethane        | 6.43 | 49   | 81582    | 18.892  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 6.45 | 42   | 84609    | 104.704 | ug/l  | 99     |
| 30) Chloroform                | 6.65 | 83   | 257772   | 21.019  | ug/l  | 96     |
| 31) Cyclohexane               | 6.95 | 56   | 169121   | 18.493  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 6.86 | 97   | 225122   | 20.948  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 7.14 | 75   | 198007   | 21.506  | ug/l  | 98     |
| 37) Ethyl Acetate             | 6.17 | 43   | 81347    | 21.691  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 7.11 | 117  | 239592   | 22.203  | ug/l  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\  
 Data File : VD061737.D  
 Acq On : 11 Apr 2019 13:29  
 Operator : VA/AP  
 Sample : VD0411SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0411SBS01

Quant Time: Apr 12 00:58:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.86  | 83   | 203457   | 21.524  | ug/l   | 97       |
| 40) Benzene                    | 7.44  | 78   | 490063   | 22.063  | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.44  | 41   | 96691    | 22.086  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 7.57  | 62   | 162458   | 23.257  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.23  | 43   | 113644   | 20.880  | ug/l # | 98       |
| 44) Trichloroethene            | 8.53  | 130  | 184647   | 21.684  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 8.93  | 63   | 124688   | 22.635  | ug/l   | 100      |
| 46) Dibromomethane             | 9.06  | 93   | 86750    | 22.035  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.37  | 83   | 196848   | 22.766  | ug/l   | 95       |
| 48) Methyl methacrylate        | 9.12  | 41   | 68122    | 21.713  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.07  | 88   | 14014    | 404.683 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.30 | 43   | 352884   | 109.634 | ug/l   | 95       |
| 52) Toluene                    | 10.50 | 92   | 303509   | 21.882  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.91 | 75   | 178582   | 23.562  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 198478   | 21.243  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 11.18 | 97   | 101238   | 21.641  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 102355   | 20.741  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 150286   | 21.937  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 9.85  | 63   | 260124   | 111.711 | ug/l   | 98       |
| 59) 2-Hexanone                 | 11.53 | 43   | 249687   | 99.954  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.68 | 129  | 168458   | 22.793  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.80 | 107  | 112802   | 20.619  | ug/l   | 88       |
| 64) Tetrachloroethene          | 11.25 | 164  | 151748   | 23.651  | ug/l   | 98       |
| 65) Chlorobenzene              | 12.39 | 112  | 390790   | 23.841  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 151976   | 24.094  | ug/l   | 98       |
| 67) Ethyl Benzene              | 12.52 | 91   | 592660   | 23.743  | ug/l   | 99       |
| 68) m/p-Xylenes                | 12.66 | 106  | 462105   | 48.021  | ug/l   | 97       |
| 69) o-Xylene                   | 13.04 | 106  | 194986   | 20.991  | ug/l   | 96       |
| 70) Styrene                    | 13.06 | 104  | 378627   | 23.867  | ug/l   | 97       |
| 71) Bromoform                  | 13.23 | 173  | 80763    | 20.637  | ug/l   | 96       |
| 73) Isopropylbenzene           | 13.40 | 105  | 600535   | 23.080  | ug/l   | 99       |
| 74) N-amyl acetate             | 13.26 | 43   | 142655   | 20.179  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 112872   | 20.980  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 119032   | 22.405  | ug/l   | 95       |
| 77) Bromobenzene               | 13.66 | 156  | 161812   | 21.425  | ug/l   | 90       |
| 78) n-propylbenzene            | 13.77 | 91   | 718224   | 23.076  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 402217   | 22.598  | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 510702   | 24.729  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 34093    | 21.147  | ug/l   | 87       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 479346   | 24.578  | ug/l   | 91       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 553693   | 22.237  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 472990   | 22.693  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 14.36 | 105  | 645315   | 23.987  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 533953   | 22.879  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 296873   | 22.840  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 278539   | 21.239  | ug/l   | 97       |
| 89) n-Butylbenzene             | 14.80 | 91   | 469333   | 23.137  | ug/l   | 99       |
| 90) Hexachloroethane           | 15.00 | 117  | 141382   | 22.326  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 238335   | 22.248  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 13254    | 20.415  | ug/l   | 90       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\  
Data File : VD061737.D  
Acq On : 11 Apr 2019 13:29  
Operator : VA/AP  
Sample : VD0411SBS01  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0411SBS01

Quant Time: Apr 12 00:58:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 08 10:04:03 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 119691   | 21.931 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 88883    | 21.091 | ug/l  | 98       |
| 95) Naphthalene            | 16.12 | 128  | 163541   | 18.938 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 52267    | 19.189 | ug/l  | 98       |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\  
 Data File : VD061737.D  
 Acq On : 11 Apr 2019 13:29  
 Operator : VA/AP  
 Sample : VD0411SBS01  
 Misc : 5.00µl/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0411SBS01

Quant Time: Apr 12 00:58:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

