

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060719\  
 Data File : VD062642.D  
 Acq On : 7 Jun 2019 14:10  
 Operator : FY/SY  
 Sample : VSTDIC005  
 Misc : 5.00µ/5mL/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jun 07 23:32:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 07 23:24:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 709461   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 952344   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 827659   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 481877   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |      |        |      |
|---------------------------|-------|-----|----------|------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.45  | 65  | 50124    | 4.86 | ug/l   | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =    | 9.72%  |      |
| 35) Dibromofluoromethane  | 6.92  | 113 | 52511    | 5.23 | ug/l   | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =    | 10.46% |      |
| 50) Toluene-d8            | 10.41 | 98  | 98817    | 4.62 | ug/l   | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =    | 9.24%  |      |
| 62) 4-Bromofluorobenzene  | 13.56 | 95  | 47837    | 4.71 | ug/l   | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =    | 9.42%  |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85  | 58349  | 6.390  | ug/l   | 96     |
| 3) Chloromethane              | 1.74 | 50  | 40875  | 5.716  | ug/l # | 83     |
| 4) Vinyl Chloride             | 1.84 | 62  | 39794  | 5.507  | ug/l   | 94     |
| 5) Bromomethane               | 2.15 | 94  | 20578  | 5.678  | ug/l   | 95     |
| 6) Chloroethane               | 2.27 | 64  | 16644  | 4.458  | ug/l # | 52     |
| 7) Trichlorofluoromethane     | 2.53 | 101 | 77607  | 4.726  | ug/l   | 91     |
| 8) Diethyl Ether              | 2.88 | 74  | 11346  | 5.067  | ug/l   | 67     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.13 | 101 | 38421  | 4.219  | ug/l   | 90     |
| 10) Methyl Iodide             | 3.29 | 142 | 46169  | 3.977  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.08 | 59  | 12873  | 28.732 | ug/l # | 61     |
| 12) 1,1-Dichloroethene        | 3.11 | 96  | 28562  | 4.501  | ug/l   | 96     |
| 13) Acrolein                  | 3.03 | 56  | 4293   | 34.670 | ug/l   | 94     |
| 14) Allyl chloride            | 3.61 | 41  | 46241  | 4.740  | ug/l   | 91     |
| 15) Acrylonitrile             | 4.18 | 53  | 21290  | 21.949 | ug/l   | 88     |
| 16) Acetone                   | 3.22 | 43  | 45037  | 23.479 | ug/l   | 97     |
| 17) Carbon Disulfide          | 3.37 | 76  | 84092  | 4.435  | ug/l # | 94     |
| 18) Methyl Acetate            | 3.63 | 43  | 19013  | 6.091  | ug/l # | 65     |
| 19) Methyl tert-butyl Ether   | 4.23 | 73  | 69175  | 4.421  | ug/l   | 93     |
| 20) Methylene Chloride        | 3.81 | 84  | 58600  | 8.192  | ug/l # | 91     |
| 21) trans-1,2-Dichloroethene  | 4.20 | 96  | 28626  | 4.028  | ug/l # | 82     |
| 22) Diisopropyl ether         | 5.11 | 45  | 93429  | 4.679  | ug/l # | 91     |
| 23) Vinyl Acetate             | 5.05 | 43  | 273690 | 21.723 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 4.98 | 63  | 56244  | 4.266  | ug/l # | 96     |
| 25) 2-Butanone                | 6.07 | 43  | 42224  | 22.584 | ug/l # | 89     |
| 26) 2,2-Dichloropropane       | 6.02 | 77  | 65575  | 4.299  | ug/l   | 88     |
| 27) cis-1,2-Dichloroethene    | 6.04 | 96  | 34627  | 4.578  | ug/l   | 85     |
| 28) Bromochloromethane        | 6.43 | 49  | 25023  | 5.300  | ug/l # | 68     |
| 29) Tetrahydrofuran           | 6.46 | 42  | 20456  | 24.314 | ug/l   | 98     |
| 30) Chloroform                | 6.66 | 83  | 73617  | 4.338  | ug/l   | 92     |
| 31) Cyclohexane               | 6.94 | 56  | 35813  | 4.432  | ug/l # | 93     |
| 32) 1,1,1-Trichloroethane     | 6.87 | 97  | 67523  | 3.934  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.15 | 75  | 49736  | 4.385  | ug/l   | 96     |
| 37) Ethyl Acetate             | 6.17 | 43  | 33330  | 6.741  | ug/l # | 72     |
| 38) Carbon Tetrachloride      | 7.10 | 117 | 77294  | 4.317  | ug/l   | 94     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060719\  
 Data File : VD062642.D  
 Acq On : 7 Jun 2019 14:10  
 Operator : FY/SY  
 Sample : VSTDIC005  
 Misc : 5.00µ/5mL/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jun 07 23:32:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 07 23:24:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 8.86  | 83   | 39565    | 4.383  | ug/l   | 94       |
| 40) Benzene                    | 7.44  | 78   | 98736    | 4.570  | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.45  | 41   | 27088    | 4.571  | ug/l # | 93       |
| 42) 1,2-Dichloroethane         | 7.57  | 62   | 59587    | 4.599  | ug/l # | 82       |
| 43) Isopropyl Acetate          | 9.23  | 43   | 28496    | 4.908  | ug/l # | 98       |
| 44) Trichloroethene            | 8.54  | 130  | 38590    | 4.327  | ug/l   | 84       |
| 45) 1,2-Dichloropropane        | 8.94  | 63   | 21402    | 4.083  | ug/l   | 89       |
| 46) Dibromomethane             | 9.06  | 93   | 20718    | 4.414  | ug/l   | 86       |
| 47) Bromodichloromethane       | 9.37  | 83   | 54327    | 4.263  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.12  | 41   | 18854    | 4.362  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 2849     | 83.438 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.30 | 43   | 95383    | 23.136 | ug/l   | 96       |
| 52) Toluene                    | 10.50 | 92   | 66486    | 4.497  | ug/l   | 91       |
| 53) t-1,3-Dichloropropene      | 10.91 | 75   | 41896    | 3.994  | ug/l   | 89       |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 43061    | 3.967  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 11.18 | 97   | 25164    | 5.094  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 22572    | 4.180  | ug/l # | 91       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 35119    | 4.520  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.86  | 63   | 77414    | 28.526 | ug/l   | 92       |
| 59) 2-Hexanone                 | 11.53 | 43   | 68153    | 21.962 | ug/l   | 90       |
| 60) Dibromochloromethane       | 11.69 | 129  | 42775    | 4.359  | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 11.80 | 107  | 26611    | 4.442  | ug/l   | 97       |
| 64) Tetrachloroethene          | 11.25 | 164  | 36298    | 4.619  | ug/l   | 98       |
| 65) Chlorobenzene              | 12.39 | 112  | 82531    | 4.451  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 38436    | 4.326  | ug/l   | 92       |
| 67) Ethyl Benzene              | 12.52 | 91   | 145777   | 4.422  | ug/l   | 97       |
| 68) m/p-Xylenes                | 12.67 | 106  | 102048   | 8.823  | ug/l   | 93       |
| 69) o-Xylene                   | 13.04 | 106  | 41968    | 3.866  | ug/l   | 79       |
| 70) Styrene                    | 13.07 | 104  | 79103    | 4.086  | ug/l   | 92       |
| 71) Bromoform                  | 13.23 | 173  | 23367    | 3.784  | ug/l   | 82       |
| 73) Isopropylbenzene           | 13.40 | 105  | 150564   | 4.291  | ug/l   | 98       |
| 74) N-amyl acetate             | 13.26 | 43   | 39047    | 4.133  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 24691    | 4.159  | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 30214    | 4.545  | ug/l   | 94       |
| 77) Bromobenzene               | 13.66 | 156  | 41475    | 4.201  | ug/l   | 86       |
| 78) n-propylbenzene            | 13.77 | 91   | 176871   | 4.164  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 108896   | 4.394  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 132521   | 4.327  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 7441     | 4.345  | ug/l # | 80       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 128834   | 4.321  | ug/l   | 89       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 136514   | 3.996  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 121635   | 3.954  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 14.36 | 105  | 148333   | 4.175  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 147399   | 4.276  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 76168    | 4.171  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 72334    | 4.217  | ug/l   | 92       |
| 89) n-Butylbenzene             | 14.80 | 91   | 128592   | 4.094  | ug/l   | 97       |
| 90) Hexachloroethane           | 15.00 | 117  | 37343    | 4.113  | ug/l   | 73       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 67022    | 4.466  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 5678     | 4.331  | ug/l   | 85       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD060719\  
Data File : VD062642.D  
Acq On : 7 Jun 2019 14:10  
Operator : FY/SY  
Sample : VSTDICC005  
Misc : 5.00g/5mL/MSVOA D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Quant Time: Jun 07 23:32:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 07 23:24:47 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 44003    | 3.865 | ug/l   | 92       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 35147    | 3.909 | ug/l   | 93       |
| 95) Naphthalene            | 16.13 | 128  | 67015    | 4.237 | ug/l # | 96       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 37583    | 4.357 | ug/l   | 96       |

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

