

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\  
 Data File : VD059388.D  
 Acq On : 25 Jun 2018 00:50  
 Operator : VA/AP  
 Sample : VSTDIC020  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC020

Quant Time: Jun 25 06:55:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 06:53:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 924827   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 1213862  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 993239   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.92 | 152  | 539387   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.02  | 65   | 203053   | 21.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 43.64% |          |
| 35) Dibromofluoromethane    | 5.55  | 113  | 211910   | 21.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 43.08% |          |
| 50) Toluene-d8              | 8.71  | 98   | 491586   | 20.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 41.60% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 203697   | 20.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 41.94% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.34 | 85   | 196540   | 21.30  | ug/l   | 95     |
| 3) Chloromethane              | 1.49 | 50   | 94332    | 20.70  | ug/l # | 87     |
| 4) Vinyl Chloride             | 1.55 | 62   | 98178    | 20.57  | ug/l   | 99     |
| 5) Bromomethane               | 1.79 | 94   | 27654    | 15.66  | ug/l   | 85     |
| 6) Chloroethane               | 1.88 | 64   | 30589    | 17.08  | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 2.08 | 101  | 126199   | 18.89  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.34 | 74   | 30738    | 21.93  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.55 | 101  | 82855    | 19.75  | ug/l   | 94     |
| 10) Methyl Iodide             | 2.69 | 142  | 92297    | 19.19  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 3.28 | 59   | 29937    | 95.19  | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 2.54 | 96   | 63775    | 20.32  | ug/l   | 91     |
| 13) Acrolein                  | 2.47 | 56   | 40140    | 199.55 | ug/l   | 86     |
| 14) Allyl chloride            | 2.92 | 41   | 148122   | 20.44  | ug/l   | 98     |
| 15) Acrylonitrile             | 3.36 | 53   | 109597   | 130.52 | ug/l   | 96     |
| 16) Acetone                   | 2.62 | 43   | 118381   | 95.47  | ug/l # | 86     |
| 17) Carbon Disulfide          | 2.76 | 76   | 197029   | 18.63  | ug/l   | 96     |
| 18) Methyl Acetate            | 2.94 | 43   | 58323    | 21.42  | ug/l # | 92     |
| 19) Methyl tert-butyl Ether   | 3.41 | 73   | 321386   | 34.14  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.07 | 84   | 73766    | 18.75  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 3.40 | 96   | 110356   | 28.97  | ug/l   | 94     |
| 22) Diisopropyl ether         | 4.08 | 45   | 552843   | 19.25  | ug/l   | 98     |
| 23) Vinyl Acetate             | 4.02 | 43   | 1495918  | 98.14  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.98 | 63   | 321255   | 20.63  | ug/l   | 98     |
| 25) 2-Butanone                | 4.84 | 43   | 256031   | 95.05  | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 4.80 | 77   | 242310   | 18.70  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 4.81 | 96   | 194968   | 22.62  | ug/l   | 89     |
| 28) Bromochloromethane        | 5.15 | 49   | 145816   | 20.95  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 5.20 | 42   | 150286   | 104.79 | ug/l   | 96     |
| 30) Chloroform                | 5.33 | 83   | 351520   | 21.25  | ug/l   | 98     |
| 31) Cyclohexane               | 5.60 | 56   | 241574   | 18.34  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97   | 277945   | 20.32  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 5.75 | 75   | 231211   | 19.56  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.93 | 43   | 141389   | 21.21  | ug/l   | 95     |
| 38) Carbon Tetrachloride      | 5.73 | 117  | 234882   | 19.94  | ug/l   | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\  
 Data File : VD059388.D  
 Acq On : 25 Jun 2018 00:50  
 Operator : VA/AP  
 Sample : VSTDIC020  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC020

Quant Time: Jun 25 06:55:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 06:53:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 39) Methylcyclohexane          | 7.28  | 83   | 221290   | 19.32  | ug/l   | 97       |
| 40) Benzene                    | 6.01  | 78   | 578409   | 20.46  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.13  | 41   | 69434    | 21.04  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 6.13  | 62   | 248226   | 21.62  | ug/l   | 95       |
| 43) Isopropyl Acetate          | 7.63  | 43   | 165270   | 18.74  | ug/l # | 98       |
| 44) Trichloroethene            | 6.99  | 130  | 183184   | 21.47  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 7.35  | 63   | 162963   | 21.61  | ug/l   | 96       |
| 46) Dibromomethane             | 7.47  | 93   | 113780   | 21.90  | ug/l   | 88       |
| 47) Bromodichloromethane       | 7.75  | 83   | 250106   | 20.82  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.51  | 41   | 111504   | 20.76  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.49  | 88   | 21192    | 436.42 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 8.60  | 43   | 622996   | 107.68 | ug/l   | 100      |
| 52) Toluene                    | 8.81  | 92   | 344214   | 21.32  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.19  | 75   | 208512   | 20.30  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.37  | 75   | 251903   | 21.08  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.46  | 97   | 125325   | 21.92  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.32  | 69   | 144903   | 21.50  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.67  | 76   | 201532   | 20.91  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.19  | 63   | 363580   | 108.77 | ug/l   | 92       |
| 59) 2-Hexanone                 | 9.79  | 43   | 436441   | 103.78 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.96  | 129  | 168536   | 21.67  | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 10.10 | 107  | 142081   | 22.85  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.52  | 164  | 185545   | 22.22  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.73 | 112  | 389571   | 21.09  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.86 | 131  | 152516   | 21.21  | ug/l   | 94       |
| 67) Ethyl Benzene              | 10.86 | 91   | 701224   | 21.47  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.02 | 106  | 457272   | 42.15  | ug/l   | 99       |
| 69) o-Xylene                   | 11.41 | 106  | 221628   | 21.14  | ug/l   | 93       |
| 70) Styrene                    | 11.44 | 104  | 385331   | 21.58  | ug/l   | 98       |
| 71) Bromoform                  | 11.61 | 173  | 121591   | 21.44  | ug/l   | 89       |
| 73) Isopropylbenzene           | 11.77 | 105  | 625589   | 19.56  | ug/l   | 100      |
| 74) N-amyl acetate             | 11.65 | 43   | 235699   | 19.53  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 150887   | 20.56  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 12.12 | 75   | 153759   | 19.96  | ug/l   | 94       |
| 77) Bromobenzene               | 12.04 | 156  | 197058   | 20.49  | ug/l   | 93       |
| 78) n-propylbenzene            | 12.16 | 91   | 783344   | 19.09  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.22 | 91   | 458647   | 19.47  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.32 | 105  | 506803   | 20.42  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 34931    | 18.98  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 541026   | 20.46  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.58 | 119  | 530592   | 18.67  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.63 | 105  | 516030   | 19.08  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 12.76 | 105  | 660434   | 19.76  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.89 | 119  | 522200   | 19.23  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.85 | 146  | 326000   | 19.67  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.94 | 146  | 326807   | 20.20  | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.20 | 91   | 534477   | 18.98  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.41 | 117  | 122839   | 17.56  | ug/l   | 62       |
| 91) 1,2-Dichlorobenzene        | 13.20 | 146  | 281649   | 20.11  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.78 | 75   | 24184    | 20.59  | ug/l # | 50       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\  
Data File : VD059388.D  
Acq On : 25 Jun 2018 00:50  
Operator : VA/AP  
Sample : VSTDICC020  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC020

Quant Time: Jun 25 06:55:33 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 25 06:53:44 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 256467   | 19.28 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.44 | 225  | 179096   | 17.05 | ug/l  | 98       |
| 95) Naphthalene            | 14.52 | 128  | 364733   | 20.85 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 228955   | 19.50 | ug/l  | 98       |

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

