

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\  
 Data File : VD059386.D  
 Acq On : 24 Jun 2018 23:54  
 Operator : VA/AP  
 Sample : VSTDIC005  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jun 25 06:53:49 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  | 967565   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.70  | 114  | 1205656  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.70 | 117  | 1057201  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 530100   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |        |      |
|---------------------------|--------|-----|----------|------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.02   | 65  | 44132    | 4.53 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.06%  |      |
| 35) Dibromofluoromethane  | 5.56   | 113 | 48086    | 4.92 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.84%  |      |
| 50) Toluene-d8            | 8.72   | 98  | 108782   | 4.63 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.26%  |      |
| 62) 4-Bromofluorobenzene  | 11.94  | 95  | 49386    | 5.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 10.24% |      |

## Target Compounds

|                               |      |     |        |       |        | Qvalue |
|-------------------------------|------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.35 | 85  | 41428  | 4.29  | ug/l   | 93     |
| 3) Chloromethane              | 1.49 | 50  | 25290  | 5.30  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.55 | 62  | 23634  | 4.73  | ug/l   | 99     |
| 5) Bromomethane               | 1.80 | 94  | 11881  | 6.43  | ug/l   | 84     |
| 6) Chloroethane               | 1.89 | 64  | 10948  | 5.84  | ug/l   | 89     |
| 7) Trichlorofluoromethane     | 2.09 | 101 | 36821  | 5.27  | ug/l   | 87     |
| 8) Diethyl Ether              | 2.35 | 74  | 6805   | 4.64  | ug/l   | 76     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.56 | 101 | 21610  | 4.92  | ug/l   | 95     |
| 10) Methyl Iodide             | 2.70 | 142 | 19205  | 3.82  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 3.26 | 59  | 9370   | 28.48 | ug/l # | 72     |
| 12) 1,1-Dichloroethene        | 2.55 | 96  | 17820  | 5.43  | ug/l   | 85     |
| 13) Acrolein                  | 2.47 | 56  | 3601   | 17.11 | ug/l   | 89     |
| 14) Allyl chloride            | 2.92 | 41  | 38407  | 5.06  | ug/l   | 96     |
| 15) Acrylonitrile             | 3.35 | 53  | 25471  | 28.99 | ug/l # | 86     |
| 16) Acetone                   | 2.62 | 43  | 34338  | 26.47 | ug/l # | 88     |
| 17) Carbon Disulfide          | 2.75 | 76  | 51840  | 4.69  | ug/l # | 94     |
| 18) Methyl Acetate            | 2.93 | 43  | 21269  | 7.46  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 3.41 | 73  | 79070  | 8.03  | ug/l   | 100    |
| 20) Methylene Chloride        | 3.08 | 84  | 26461  | 6.43  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 3.40 | 96  | 31864  | 8.00  | ug/l   | 80     |
| 22) Diisopropyl ether         | 4.08 | 45  | 138270 | 4.60  | ug/l # | 86     |
| 23) Vinyl Acetate             | 4.02 | 43  | 298642 | 18.73 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.98 | 63  | 81845  | 5.02  | ug/l   | 99     |
| 25) 2-Butanone                | 4.84 | 43  | 70087  | 24.87 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.81 | 77  | 64875  | 4.79  | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene    | 4.81 | 96  | 56367  | 6.25  | ug/l   | 85     |
| 28) Bromochloromethane        | 5.16 | 49  | 28115  | 3.86  | ug/l   | 94     |
| 29) Tetrahydrofuran           | 5.20 | 42  | 36743  | 24.49 | ug/l   | 99     |
| 30) Chloroform                | 5.33 | 83  | 88988  | 5.14  | ug/l   | 92     |
| 31) Cyclohexane               | 5.60 | 56  | 83195  | 6.04  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 5.52 | 97  | 70100  | 4.90  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 5.75 | 75  | 66882  | 5.70  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.93 | 43  | 36151  | 5.46  | ug/l # | 96     |
| 38) Carbon Tetrachloride      | 5.73 | 117 | 59728  | 5.11  | ug/l   | 98     |

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 Acq On : 24 Jun 2018 23:54  
 Operator : VA/AP  
 Sample : VSTDIC005  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jun 25 06:53:49 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          | 7.29  | 83   | 61713    | 5.42   | ug/l   | 96       |
| 40) Benzene                    | 6.02  | 78   | 148737   | 5.30   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.13  | 41   | 17051    | 5.20   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.13  | 62   | 59423    | 5.21   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 7.63  | 43   | 40763    | 4.65   | ug/l # | 93       |
| 44) Trichloroethene            | 6.99  | 130  | 51790    | 6.11   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.36  | 63   | 39611    | 5.29   | ug/l   | 99       |
| 46) Dibromomethane             | 7.47  | 93   | 25804    | 5.00   | ug/l   | 93       |
| 47) Bromodichloromethane       | 7.76  | 83   | 55875    | 4.68   | ug/l # | 93       |
| 48) Methyl methacrylate        | 7.52  | 41   | 23817    | 4.47   | ug/l # | 91       |
| 49) 1,4-Dioxane                | 7.51  | 88   | 5012     | 103.92 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone       | 8.60  | 43   | 143481   | 24.97  | ug/l   | 95       |
| 52) Toluene                    | 8.81  | 92   | 89094    | 5.56   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.19  | 75   | 47538    | 4.66   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.37  | 75   | 56034    | 4.72   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 9.46  | 97   | 30251    | 5.33   | ug/l # | 86       |
| 56) Ethyl methacrylate         | 9.32  | 69   | 31795    | 4.75   | ug/l   | 92       |
| 57) 1,3-Dichloropropane        | 9.67  | 76   | 47975    | 5.01   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.20  | 63   | 90812    | 27.35  | ug/l   | 94       |
| 59) 2-Hexanone                 | 9.79  | 43   | 100881   | 24.15  | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.97  | 129  | 37711    | 4.88   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.10 | 107  | 32611    | 5.28   | ug/l   | 85       |
| 64) Tetrachloroethene          | 9.52  | 164  | 53375    | 6.00   | ug/l   | 96       |
| 65) Chlorobenzene              | 10.73 | 112  | 105321   | 5.36   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.86 | 131  | 34959    | 4.57   | ug/l   | 94       |
| 67) Ethyl Benzene              | 10.87 | 91   | 179753   | 5.17   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.01 | 106  | 114629   | 9.93   | ug/l   | 93       |
| 69) o-Xylene                   | 11.41 | 106  | 55417    | 4.97   | ug/l   | 84       |
| 70) Styrene                    | 11.44 | 104  | 97247    | 5.12   | ug/l   | 98       |
| 71) Bromoform                  | 11.60 | 173  | 24740    | 4.10   | ug/l   | 96       |
| 73) Isopropylbenzene           | 11.78 | 105  | 161215   | 5.13   | ug/l   | 90       |
| 74) N-amyl acetate             | 11.65 | 43   | 54468    | 4.59   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 34471    | 4.78   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.12 | 75   | 38481    | 5.08   | ug/l   | 100      |
| 77) Bromobenzene               | 12.05 | 156  | 48534    | 5.13   | ug/l   | 86       |
| 78) n-propylbenzene            | 12.16 | 91   | 214142   | 5.31   | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.22 | 91   | 118966   | 5.14   | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene     | 12.32 | 105  | 133364   | 5.47   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.85 | 75   | 7018     | 3.88   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 12.33 | 91   | 144998   | 5.58   | ug/l   | 87       |
| 83) tert-Butylbenzene          | 12.58 | 119  | 120860   | 4.33   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 12.63 | 105  | 135799   | 5.11   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 12.76 | 105  | 169848   | 5.17   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.89 | 119  | 133640   | 5.01   | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 83447    | 5.12   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 12.93 | 146  | 80375    | 5.05   | ug/l   | 94       |
| 89) n-Butylbenzene             | 13.20 | 91   | 138303   | 5.00   | ug/l   | 97       |
| 90) Hexachloroethane           | 13.41 | 117  | 28208    | 4.10   | ug/l   | 80       |
| 91) 1,2-Dichlorobenzene        | 13.20 | 146  | 74478    | 5.41   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.78 | 75   | 4507     | 3.91   | ug/l # | 53       |

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Operator : VA/AP  
Sample : VSTDICC005  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Quant Time: Jun 25 06:53:49 2018  
Quant Method : Z:\V0ASRV\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  | 62398    | 4.77 | ug/l  | 91       |
| 94) Hexachlorobutadiene    | 14.44 | 225  | 47211    | 4.57 | ug/l  | 99       |
| 95) Naphthalene            | 14.52 | 128  | 84481    | 4.91 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 55535    | 4.81 | ug/l  | 91       |

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

