

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110618\  
 Data File : VD060285.D  
 Acq On : 6 Nov 2018 11:35  
 Operator : VA/AP  
 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC010

Quant Time: Nov 06 13:47:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:45:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.42  | 168  | 1587535  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.46  | 114  | 2246602  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.30 | 117  | 1772109  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 882069   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.80   | 65  | 126468   | 11.27 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 22.54% |      |
| 35) Dibromofluoromethane    | 6.34   | 113 | 180086   | 10.89 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 21.78% |      |
| 50) Toluene-d8              | 9.47   | 98  | 529867   | 11.06 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 22.12% |      |
| 62) 4-Bromofluorobenzene    | 12.44  | 95  | 194356   | 11.22 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 22.44% |      |

| Target Compounds              |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85  | 173932  | 12.581 | ug/l   | 97     |
| 3) Chloromethane              | 1.77 | 50  | 171458  | 11.928 | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.86 | 62  | 138355  | 11.449 | ug/l   | 99     |
| 5) Bromomethane               | 2.16 | 94  | 38188   | 11.507 | ug/l   | 100    |
| 6) Chloroethane               | 2.27 | 64  | 48625   | 11.185 | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 2.53 | 101 | 163974  | 10.901 | ug/l   | 96     |
| 8) Diethyl Ether              | 2.83 | 74  | 28078   | 9.862  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.11 | 101 | 105918  | 10.947 | ug/l   | 95     |
| 10) Methyl Iodide             | 3.27 | 142 | 131208  | 13.988 | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.98 | 59  | 24373   | 50.195 | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 3.09 | 96  | 86084   | 10.765 | ug/l   | 99     |
| 13) Acrolein                  | 3.00 | 56  | 29757   | 49.418 | ug/l   | 99     |
| 14) Allyl chloride            | 3.55 | 41  | 163664  | 10.770 | ug/l   | 98     |
| 15) Acrylonitrile             | 4.10 | 53  | 149200  | 56.045 | ug/l   | 98     |
| 16) Acetone                   | 3.18 | 43  | 113962  | 55.341 | ug/l   | 100    |
| 17) Carbon Disulfide          | 3.33 | 76  | 279275  | 10.762 | ug/l   | 98     |
| 18) Methyl Acetate            | 3.57 | 43  | 41572   | 9.865  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 4.14 | 73  | 252447  | 11.218 | ug/l   | 99     |
| 20) Methylene Chloride        | 3.74 | 84  | 199455  | 10.187 | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 4.12 | 96  | 188505  | 11.061 | ug/l   | 98     |
| 22) Diisopropyl ether         | 4.87 | 45  | 609759  | 11.023 | ug/l   | 97     |
| 23) Vinyl Acetate             | 4.82 | 43  | 1527706 | 55.445 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 4.77 | 63  | 311465  | 11.155 | ug/l   | 100    |
| 25) 2-Butanone                | 5.64 | 43  | 228541  | 58.422 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 5.61 | 77  | 247310  | 11.281 | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 5.61 | 96  | 196085  | 11.072 | ug/l   | 92     |
| 28) Bromochloromethane        | 5.94 | 49  | 134888  | 10.860 | ug/l   | 100    |
| 29) Tetrahydrofuran           | 5.97 | 42  | 117443  | 57.106 | ug/l   | 97     |
| 30) Chloroform                | 6.12 | 83  | 310625  | 11.022 | ug/l   | 98     |
| 31) Cyclohexane               | 6.38 | 56  | 310902  | 11.801 | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.31 | 97  | 260175  | 11.198 | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 6.54 | 75  | 245963  | 11.325 | ug/l   | 98     |
| 37) Ethyl Acetate             | 5.72 | 43  | 109615  | 11.308 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 6.52 | 117 | 221571  | 11.194 | ug/l   | 98     |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC010

Quant Time: Nov 06 13:47:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:45:11 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.06  | 83   | 278128   | 11.389  | ug/l   | 97       |
| 40) Benzene                    | 6.81  | 78   | 612062   | 10.922  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.96  | 41   | 126374   | 19.733  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.92  | 62   | 158906   | 10.939  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.36  | 43   | 135102   | 10.798  | ug/l # | 97       |
| 44) Trichloroethene            | 7.76  | 130  | 178729   | 10.436  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.12  | 63   | 149333   | 10.683  | ug/l   | 95       |
| 46) Dibromomethane             | 8.23  | 93   | 89160    | 11.124  | ug/l   | 99       |
| 47) Bromodichloromethane       | 8.51  | 83   | 206930   | 10.726  | ug/l   | 94       |
| 48) Methyl methacrylate        | 8.26  | 41   | 82877    | 11.055  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 8.24  | 88   | 14441    | 215.170 | ug/l # | 75       |
| 51) 4-Methyl-2-Pentanone       | 9.36  | 43   | 456469   | 57.804  | ug/l   | 98       |
| 52) Toluene                    | 9.56  | 92   | 392119   | 11.058  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.94  | 75   | 171044   | 10.687  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.12  | 75   | 229515   | 10.990  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.19 | 97   | 115515   | 11.644  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.05 | 69   | 98230    | 10.416  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.40 | 76   | 168847   | 11.138  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.94  | 63   | 303053   | 54.355  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.50 | 43   | 330467   | 56.820  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.66 | 129  | 129718   | 10.315  | ug/l   | 93       |
| 61) 1,2-Dibromoethane          | 10.77 | 107  | 111453   | 11.073  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.27 | 164  | 169940   | 10.944  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.32 | 112  | 408205   | 10.750  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.43 | 131  | 136969   | 10.932  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.44 | 91   | 740909   | 11.427  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.58 | 106  | 547692   | 22.884  | ug/l   | 97       |
| 69) o-Xylene                   | 11.94 | 106  | 257232   | 11.062  | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 416967   | 11.135  | ug/l   | 96       |
| 71) Bromoform                  | 12.13 | 173  | 84190    | 10.484  | ug/l   | 93       |
| 73) Isopropylbenzene           | 12.29 | 105  | 726836   | 11.684  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 173791   | 11.007  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.57 | 83   | 111738   | 11.130  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 12.60 | 75   | 117443   | 11.728  | ug/l   | 99       |
| 77) Bromobenzene               | 12.55 | 156  | 179739   | 10.818  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.65 | 91   | 929534   | 11.886  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.71 | 91   | 499909   | 11.583  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 568398   | 11.758  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 12.36 | 75   | 29600    | 10.951  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.82 | 91   | 570706   | 11.852  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 13.06 | 119  | 619668   | 11.531  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 13.11 | 105  | 529998   | 10.804  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.23 | 105  | 760111   | 11.596  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.35 | 119  | 631234   | 12.116  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.32 | 146  | 337719   | 11.387  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.40 | 146  | 326278   | 11.281  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.66 | 91   | 661211   | 12.393  | ug/l   | 96       |
| 90) Hexachloroethane           | 13.87 | 117  | 138376   | 10.908  | ug/l   | 80       |
| 91) 1,2-Dichlorobenzene        | 13.67 | 146  | 293265   | 12.124  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 13830    | 11.229  | ug/l   | 72       |

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Sample : VSTDICC010  
Misc : 5.00G/5ML/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC010

Quant Time: Nov 06 13:47:35 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:45:11 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.80 | 180  | 213236   | 11.363 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.89 | 225  | 162277   | 11.709 | ug/l  | 99       |
| 95) Naphthalene            | 14.98 | 128  | 248381   | 10.640 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.12 | 180  | 169453   | 11.185 | ug/l  | 96       |

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

