

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012319\  
 Data File : VV009251.D  
 Acq On : 23 Jan 2019 17:30  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA V/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jan 24 03:55:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 23 01:54:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.73  | 168  | 76190    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.66  | 114  | 128433   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 8.89  | 117  | 120237   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 62967    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.08  | 65   | 47627    | 51.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.52% |          |
| 35) Dibromofluoromethane    | 4.64  | 113  | 42508    | 50.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.72% |          |
| 50) Toluene-d8              | 7.36  | 98   | 163886   | 50.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.76% |          |
| 62) 4-Bromofluorobenzene    | 10.12 | 95   | 61667    | 50.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.62% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.14 | 85   | 28650    | 46.489  | ug/l  | 96     |
| 3) Chloromethane              | 1.25 | 50   | 40156    | 48.406  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.33 | 62   | 43161    | 45.792  | ug/l  | 99     |
| 5) Bromomethane               | 1.53 | 94   | 26256    | 49.120  | ug/l  | 99     |
| 6) Chloroethane               | 1.60 | 64   | 25860    | 49.089  | ug/l  | 93     |
| 7) Trichlorofluoromethane     | 1.76 | 101  | 22032    | 33.307  | ug/l  | 99     |
| 8) Diethyl Ether              | 1.96 | 74   | 21689    | 52.134  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.14 | 101  | 40769    | 49.602  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.26 | 142  | 62936    | 47.975  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 2.65 | 59   | 18067    | 329.562 | ug/l  | 95     |
| 12) 1,1-Dichloroethene        | 2.14 | 96   | 39432    | 48.864  | ug/l  | 94     |
| 13) Acrolein                  | 2.05 | 56   | 13198    | 275.610 | ug/l  | 98     |
| 14) Allyl chloride            | 2.42 | 41   | 62662    | 45.055  | ug/l  | 98     |
| 15) Acrylonitrile             | 2.76 | 53   | 56633    | 314.268 | ug/l  | 99     |
| 16) Acetone                   | 2.17 | 43   | 60428    | 239.704 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.32 | 76   | 114700   | 46.465  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.45 | 43   | 35834    | 53.219  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 2.80 | 73   | 65075    | 51.950  | ug/l  | 97     |
| 20) Methylene Chloride        | 2.53 | 84   | 43506    | 52.390  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 2.78 | 96   | 41166    | 47.348  | ug/l  | 94     |
| 22) Diisopropyl ether         | 3.33 | 45   | 143808   | 48.558  | ug/l  | 89     |
| 23) Vinyl Acetate             | 3.30 | 43   | 457994   | 285.014 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.22 | 63   | 86283    | 46.828  | ug/l  | 98     |
| 25) 2-Butanone                | 4.01 | 43   | 87618    | 303.939 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 3.95 | 77   | 46216    | 44.569  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 3.95 | 96   | 52117    | 49.599  | ug/l  | 97     |
| 28) Bromochloromethane        | 4.29 | 49   | 34432    | 50.639  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 4.38 | 42   | 54292    | 346.272 | ug/l  | 96     |
| 30) Chloroform                | 4.42 | 83   | 89368    | 48.293  | ug/l  | 100    |
| 31) Cyclohexane               | 4.72 | 56   | 78738    | 46.810  | ug/l  | 95     |
| 32) 1,1,1-Trichloroethane     | 4.65 | 97   | 73342    | 47.022  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 4.87 | 75   | 67802    | 47.549  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.12 | 43   | 35187    | 64.208  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 4.87 | 117  | 68263    | 47.818  | ug/l  | 99     |

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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jan 24 03:55:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 23 01:54:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 6.17  | 83   | 84471    | 50.024   | ug/l   | 99       |
| 40) Benzene                    | 5.14  | 78   | 194600   | 48.794   | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.31  | 41   | 20976    | 63.510   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 5.17  | 62   | 62368    | 49.966   | ug/l   | 97       |
| 43) Isopropyl Acetate          | 5.32  | 43   | 69084    | 64.089   | ug/l   | 98       |
| 44) Trichloroethene            | 5.96  | 130  | 51111    | 48.701   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 6.22  | 63   | 49055    | 51.135   | ug/l   | 97       |
| 46) Dibromomethane             | 6.35  | 93   | 28074    | 57.032   | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.55  | 83   | 65655    | 50.474   | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.42  | 41   | 33803    | 61.454   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.41  | 88   | 8832     | 1408.519 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 7.27  | 43   | 180187   | 329.376  | ug/l   | 98       |
| 52) Toluene                    | 7.43  | 92   | 124970   | 49.535   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 7.69  | 75   | 66090    | 52.203   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.07  | 75   | 74059    | 50.802   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 7.88  | 97   | 39524    | 56.987   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 7.83  | 69   | 49037    | 60.686   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.05  | 76   | 69792    | 55.579   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 6.93  | 63   | 1837     | 145.476  | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.18  | 43   | 129721   | 327.847  | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.29  | 129  | 44919    | 55.315   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.40  | 107  | 39780    | 58.651   | ug/l   | 99       |
| 64) Tetrachloroethene          | 8.02  | 164  | 43373    | 50.692   | ug/l   | 98       |
| 65) Chlorobenzene              | 8.92  | 112  | 136961   | 48.963   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.02  | 131  | 47244    | 49.418   | ug/l   | 99       |
| 67) Ethyl Benzene              | 9.05  | 91   | 239748   | 48.110   | ug/l   | 99       |
| 68) m/p-Xylenes                | 9.18  | 106  | 182257   | 96.337   | ug/l   | 98       |
| 69) o-Xylene                   | 9.59  | 106  | 86019    | 49.042   | ug/l   | 100      |
| 70) Styrene                    | 9.60  | 104  | 143418   | 51.234   | ug/l   | 98       |
| 71) Bromoform                  | 9.77  | 173  | 27040    | 59.980   | ug/l # | 99       |
| 73) Isopropylbenzene           | 9.97  | 105  | 243435   | 46.818   | ug/l   | 99       |
| 74) N-amyl acetate             | 9.84  | 43   | 59053    | 61.417   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 51355    | 58.585   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 10.32 | 75   | 40889    | 59.312   | ug/l   | 96       |
| 77) Bromobenzene               | 10.26 | 156  | 55069    | 49.515   | ug/l   | 96       |
| 78) n-propylbenzene            | 10.40 | 91   | 287131   | 46.581   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.47 | 91   | 169387   | 45.543   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 10.58 | 105  | 204745   | 46.953   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.05 | 75   | 14451    | 59.321   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 10.58 | 91   | 201859   | 46.080   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 10.91 | 119  | 198055   | 47.698   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 10.96 | 105  | 209607   | 47.649   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.13 | 105  | 257529   | 47.353   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.29 | 119  | 227735   | 47.824   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.23 | 146  | 110452   | 47.830   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.32 | 146  | 113071   | 48.435   | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.70 | 91   | 220156   | 47.630   | ug/l   | 99       |
| 90) Hexachloroethane           | 11.95 | 117  | 40062    | 47.310   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 11.69 | 146  | 100708   | 49.404   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.48 | 75   | 9556     | 64.934   | ug/l   | 97       |

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Misc : 5.00G/5ML/MSVOA V/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDCCC050EC

Quant Time: Jan 24 03:55:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 23 01:54:58 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.31 | 180  | 69697    | 53.113 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.50 | 225  | 40963    | 50.366 | ug/l  | 99       |
| 95) Naphthalene            | 13.55 | 128  | 140900   | 62.099 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.79 | 180  | 60686    | 54.613 | ug/l  | 99       |

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

