

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012419\  
 Data File : VV009258.D  
 Acq On : 24 Jan 2019 14:16  
 Operator : SY/MD  
 Sample : VSTDICC100  
 Misc : 5.00G/5ML/MSVOA V/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDICC100

Quant Time: Jan 24 14:36:23 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  | 81037    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.66  | 114  | 132068   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 8.89  | 117  | 123263   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 65719    | 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   | 98076    | 99.24  | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 198.48% |          |
| 35) Dibromofluoromethane    | 4.64  | 113  | 88850    | 103.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 206.78% |          |
| 50) Toluene-d8              | 7.36  | 98   | 338910   | 101.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 202.66% |          |
| 62) 4-Bromofluorobenzene    | 10.12 | 95   | 128992   | 102.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 204.70% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.14 | 85   | 76148    | 116.171 | ug/l   | 100    |
| 3) Chloromethane              | 1.25 | 50   | 94784    | 107.424 | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.33 | 62   | 98357    | 98.112  | ug/l   | 99     |
| 5) Bromomethane               | 1.53 | 94   | 50164    | 88.234  | ug/l   | 98     |
| 6) Chloroethane               | 1.59 | 64   | 48147    | 85.928  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.76 | 101  | 43215    | 61.423  | ug/l   | 98     |
| 8) Diethyl Ether              | 1.96 | 74   | 44744    | 101.119 | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.13 | 101  | 81776    | 93.543  | ug/l   | 98     |
| 10) Methyl Iodide             | 2.26 | 142  | 130443   | 93.487  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 2.66 | 59   | 37034    | 656.954 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 2.14 | 96   | 82309    | 95.897  | ug/l   | 94     |
| 13) Acrolein                  | 2.05 | 56   | 23936    | 482.006 | ug/l   | 96     |
| 14) Allyl chloride            | 2.42 | 41   | 118973   | 80.426  | ug/l # | 95     |
| 15) Acrylonitrile             | 2.76 | 53   | 114298   | 596.325 | ug/l   | 99     |
| 16) Acetone                   | 2.17 | 43   | 121969   | 454.885 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.32 | 76   | 243272   | 92.654  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.45 | 43   | 68363    | 95.457  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 2.80 | 73   | 131652   | 98.814  | ug/l   | 99     |
| 20) Methylene Chloride        | 2.53 | 84   | 84404    | 99.256  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 2.78 | 96   | 83195    | 89.966  | ug/l   | 95     |
| 22) Diisopropyl ether         | 3.32 | 45   | 285089   | 90.506  | ug/l   | 92     |
| 23) Vinyl Acetate             | 3.30 | 43   | 960229   | 561.819 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.22 | 63   | 177013   | 90.324  | ug/l   | 98     |
| 25) 2-Butanone                | 4.01 | 43   | 188356   | 614.310 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 3.95 | 77   | 92720    | 84.067  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 3.95 | 96   | 105341   | 94.256  | ug/l   | 96     |
| 28) Bromochloromethane        | 4.29 | 49   | 73747    | 101.973 | ug/l   | 95     |
| 29) Tetrahydrofuran           | 4.38 | 42   | 112585   | 675.112 | ug/l   | 97     |
| 30) Chloroform                | 4.42 | 83   | 175660   | 89.246  | ug/l   | 100    |
| 31) Cyclohexane               | 4.72 | 56   | 157266   | 87.904  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 4.65 | 97   | 137441   | 82.848  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.87 | 75   | 136238   | 92.912  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.12 | 43   | 76937    | 136.529 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 4.87 | 117  | 136027   | 92.664  | ug/l   | 99     |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDICC100

Quant Time: Jan 24 14:36:23 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   | 174199   | 100.323  | ug/l   | 99       |
| 40) Benzene                    | 5.14  | 78   | 390420   | 95.199   | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.30  | 41   | 43511    | 128.114  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 5.17  | 62   | 123836   | 96.480   | ug/l   | 97       |
| 43) Isopropyl Acetate          | 5.32  | 43   | 138830   | 125.248  | ug/l   | 96       |
| 44) Trichloroethene            | 5.96  | 130  | 103477   | 95.884   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 6.22  | 63   | 95427    | 96.735   | ug/l   | 97       |
| 46) Dibromomethane             | 6.35  | 93   | 56454    | 111.529  | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.55  | 83   | 131284   | 98.150   | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.41  | 41   | 70870    | 125.296  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 6.41  | 88   | 19708    | 3056.505 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 7.27  | 43   | 374949   | 666.529  | ug/l   | 97       |
| 52) Toluene                    | 7.43  | 92   | 250953   | 96.734   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 7.69  | 75   | 141449   | 108.652  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.07  | 75   | 156962   | 104.707  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 7.88  | 97   | 78356    | 109.867  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 7.83  | 69   | 106767   | 128.493  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.05  | 76   | 139329   | 107.901  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 6.94  | 63   | 16383    | 1261.694 | ug/l # | 90       |
| 59) 2-Hexanone                 | 8.18  | 43   | 272853   | 670.607  | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.29  | 129  | 93908    | 112.458  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.40  | 107  | 82041    | 117.631  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.02  | 164  | 85891    | 97.919   | ug/l   | 97       |
| 65) Chlorobenzene              | 8.92  | 112  | 274592   | 95.755   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.02  | 131  | 95893    | 97.843   | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.05  | 91   | 478599   | 93.682   | ug/l   | 99       |
| 68) m/p-Xylenes                | 9.18  | 106  | 369554   | 190.542  | ug/l   | 97       |
| 69) o-Xylene                   | 9.59  | 106  | 176069   | 97.918   | ug/l   | 97       |
| 70) Styrene                    | 9.60  | 104  | 291845   | 101.698  | ug/l   | 97       |
| 71) Bromoform                  | 9.78  | 173  | 57315    | 124.016  | ug/l # | 95       |
| 73) Isopropylbenzene           | 9.98  | 105  | 486131   | 89.578   | ug/l   | 98       |
| 74) N-amyl acetate             | 9.84  | 43   | 125150   | 124.709  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 104233   | 113.929  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 10.32 | 75   | 78027    | 108.444  | ug/l   | 65       |
| 77) Bromobenzene               | 10.26 | 156  | 112093   | 96.568   | ug/l   | 94       |
| 78) n-propylbenzene            | 10.40 | 91   | 570789   | 88.721   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.47 | 91   | 333170   | 85.829   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 10.59 | 105  | 407592   | 89.556   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 10.05 | 75   | 32587    | 128.168  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 10.58 | 91   | 398406   | 87.138   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 10.91 | 119  | 395629   | 91.290   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 10.96 | 105  | 420024   | 91.484   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.13 | 105  | 514290   | 90.605   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.29 | 119  | 456866   | 91.924   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.23 | 146  | 224118   | 92.988   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 11.32 | 146  | 225436   | 92.524   | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.70 | 91   | 437192   | 90.625   | ug/l   | 99       |
| 90) Hexachloroethane           | 11.95 | 117  | 81631    | 92.363   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 11.69 | 146  | 203172   | 95.495   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.48 | 75   | 18859    | 122.783  | ug/l   | 92       |

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Sample : VSTDICC100  
Misc : 5.00G/5ML/MSVOA V/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDICC100

Quant Time: Jan 24 14:36:23 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  | 142707   | 104.197 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.49 | 225  | 79897    | 94.124  | ug/l  | 100      |
| 95) Naphthalene            | 13.55 | 128  | 307157   | 129.704 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.79 | 180  | 126696   | 109.243 | ug/l  | 99       |

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

