

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012519\  
 Data File : VW008415.D  
 Acq On : 25 Jan 2019 17:00  
 Operator : SY/VA  
 Sample : K1238-31  
 Misc : 5.53G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S4

Quant Time: Jan 28 01:39:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.83  | 168  | 27       | 50.00 | ug/l  | -0.12    |
| 34) 1,4-Difluorobenzene    | 8.73  | 114  | 19       | 50.00 | ug/l  | -0.11    |
| 63) Chlorobenzene-d5       | 11.47 | 117  | 118      | 50.00 | ug/l  | -0.16    |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 76       | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-------|------|----------|----------|------------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.20  | 65   | 320      | 1206.41  | ug/l       | -0.10    |
| Spiked Amount               |       |      |          | 50.000   |            |          |
|                             |       |      |          | Recovery | = 2412.82% |          |
| 35) Dibromofluoromethane    | 7.79  | 113  | 19       | 171.02   | ug/l       | -0.10    |
| Spiked Amount               |       |      |          | 50.000   |            |          |
|                             |       |      |          | Recovery | = 342.04%  |          |
| 50) Toluene-d8              | 10.18 | 98   | 282      | 632.98   | ug/l       | -0.15    |
| Spiked Amount               |       |      |          | 50.000   |            |          |
|                             |       |      |          | Recovery | = 1265.96% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 209      | 1220.45  | ug/l       | -0.13    |
| Spiked Amount               |       |      |          | 50.000   |            |          |
|                             |       |      |          | Recovery | = 2440.90% |          |

| Target Compounds              | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.98 | 85   | 168      | 1009.934  | ug/l # | 41     |
| 3) Chloromethane              | 2.17 | 50   | 147      | 666.988   | ug/l # | 42     |
| 4) Vinyl Chloride             | 2.30 | 62   | 75       | 267.326   | ug/l # | 43     |
| 5) Bromomethane               | 2.78 | 94   | 72       | 397.878   | ug/l # | 2      |
| 6) Chloroethane               | 2.87 | 64   | 58       | 338.034   | ug/l # | 44     |
| 7) Trichlorofluoromethane     | 3.23 | 101  | 26       | 101.204   | ug/l # | 1      |
| 8) Diethyl Ether              | 3.62 | 74   | 135      | 1002.609  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.08 | 101  | 24       | 98.279    | ug/l # | 1      |
| 10) Methyl Iodide             | 3.95 | 142  | 48       | 124.442   | ug/l # | 10     |
| 11) Tert butyl alcohol        | 5.08 | 59   | 84       | 3933.387  | ug/l # | 1      |
| 12) 1,1-Dichloroethene        | 3.98 | 96   | 500      | 2023.160  | ug/l # | 23     |
| 13) Acrolein                  | 3.84 | 56   | 246      | 12841.702 | ug/l # | 14     |
| 14) Allyl chloride            | 4.60 | 41   | 566      | 1206.080  | ug/l # | 40     |
| 15) Acrylonitrile             | 5.30 | 53   | 366      | 6294.891  | ug/l # | 47     |
| 16) Acetone                   | 4.07 | 43   | 417      | 7000.668  | ug/l # | 46     |
| 17) Carbon Disulfide          | 4.35 | 76   | 65       | 82.350    | ug/l # | 74     |
| 18) Methyl Acetate            | 4.61 | 43   | 269      | 1693.164  | ug/l # | 50     |
| 19) Methyl tert-butyl Ether   | 5.35 | 73   | 914      | 2235.278  | ug/l # | 59     |
| 20) Methylene Chloride        | 4.84 | 84   | 237      | 863.255   | ug/l # | 4      |
| 21) trans-1,2-Dichloroethene  | 5.34 | 96   | 112      | 403.105   | ug/l # | 5      |
| 22) Diisopropyl ether         | 6.23 | 45   | 193      | 216.997   | ug/l # | 39     |
| 23) Vinyl Acetate             | 6.17 | 43   | 152      | 289.426   | ug/l # | 87     |
| 24) 1,1-Dichloroethane        | 6.13 | 63   | 51       | 101.302   | ug/l # | 95     |
| 25) 2-Butanone                | 7.04 | 43   | 379      | 4580.852  | ug/l # | 50     |
| 26) 2,2-Dichloropropane       | 7.07 | 77   | 247      | 725.834   | ug/l # | 1      |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96   | 384      | 1268.151  | ug/l   | 30     |
| 28) Bromochloromethane        | 7.29 | 49   | 42       | 181.634   | ug/l # | 5      |
| 29) Tetrahydrofuran           | 7.42 | 42   | 273      | 5206.976  | ug/l # | 34     |
| 30) Chloroform                | 7.74 | 83   | 144      | 290.801   | ug/l   | 89     |
| 31) Cyclohexane               | 7.85 | 56   | 202      | 388.037   | ug/l # | 16     |
| 32) 1,1,1-Trichloroethane     | 7.74 | 97   | 96       | 224.455   | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 7.98 | 75   | 193      | 1075.352  | ug/l # | 1      |
| 37) Ethyl Acetate             | 7.17 | 43   | 197      | 2480.950  | ug/l # | 70     |
| 38) Carbon Tetrachloride      | 7.96 | 117  | 237      | 1312.252  | ug/l # | 17     |

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Quant Time: Jan 28 01:39:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 39) Methylcyclohexane          | 9.20  | 83   | 288      | 1221.512  | ug/l # | 25       |
| 40) Benzene                    | 8.24  | 78   | 144      | 289.143   | ug/l # | 52       |
| 41) Methacrylonitrile          | 7.39  | 41   | 273      | 5806.387  | ug/l # | 25       |
| 42) 1,2-Dichloroethane         | 8.30  | 62   | 44       | 304.866   | ug/l # | 74       |
| 43) Isopropyl Acetate          | 8.34  | 43   | 721      | 4370.572  | ug/l # | 57       |
| 44) Trichloroethene            | 8.98  | 130  | 47       | 347.045   | ug/l   | 2        |
| 45) 1,2-Dichloropropane        | 9.29  | 63   | 87       | 700.616   | ug/l # | 67       |
| 46) Dibromomethane             | 9.32  | 93   | 190      | 2974.865  | ug/l # | 1        |
| 47) Bromodichloromethane       | 9.52  | 83   | 110      | 651.144   | ug/l # | 78       |
| 48) Methyl methacrylate        | 9.34  | 41   | 256      | 3173.712  | ug/l # | 64       |
| 49) 1,4-Dioxane                | 9.44  | 88   | 53       | 49093.456 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 399      | 4895.778  | ug/l # | 80       |
| 52) Toluene                    | 10.22 | 92   | 66       | 200.758   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.49 | 75   | 324      | 1802.422  | ug/l # | 79       |
| 54) cis-1,3-Dichloropropene    | 9.96  | 75   | 229      | 1122.567  | ug/l # | 61       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 73       | 824.029   | ug/l # | 47       |
| 56) Ethyl methacrylate         | 10.54 | 69   | 131      | 1055.324  | ug/l # | 21       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 49       | 308.742   | ug/l # | 42       |
| 58) 2-Chloroethyl Vinyl ether  | 9.58  | 63   | 75       | 1243.524  | ug/l   | 95       |
| 59) 2-Hexanone                 | 10.87 | 43   | 386      | 6708.983  | ug/l   | 75       |
| 60) Dibromochloromethane       | 11.05 | 129  | 67       | 588.522   | ug/l   | 94       |
| 61) 1,2-Dibromoethane          | 11.07 | 107  | 58       | 660.290   | ug/l   | 92       |
| 64) Tetrachloroethene          | 10.90 | 164  | 30       | 37.550    | ug/l # | 1        |
| 65) Chlorobenzene              | 11.68 | 112  | 77       | 31.966    | ug/l # | 43       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 99       | 114.873   | ug/l # | 1        |
| 67) Ethyl Benzene              | 11.72 | 91   | 89       | 20.100    | ug/l # | 44       |
| 68) m/p-Xylenes                | 11.84 | 106  | 28       | 16.298    | ug/l # | 1        |
| 69) o-Xylene                   | 12.19 | 106  | 110      | 67.389    | ug/l   | 34       |
| 70) Styrene                    | 12.17 | 104  | 65       | 24.108    | ug/l # | 1        |
| 71) Bromoform                  | 12.46 | 173  | 23       | 47.433    | ug/l # | 29       |
| 73) Isopropylbenzene           | 12.52 | 105  | 394      | 69.538    | ug/l # | 69       |
| 74) N-amyl acetate             | 12.27 | 43   | 346      | 237.044   | ug/l # | 54       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 191      | 212.925   | ug/l # | 54       |
| 76) 1,2,3-Trichloropropane     | 12.74 | 75   | 141      | 213.388   | ug/l   | 62       |
| 77) Bromobenzene               | 12.71 | 156  | 39       | 31.518    | ug/l # | 1        |
| 78) n-propylbenzene            | 12.84 | 91   | 254      | 37.325    | ug/l   | 77       |
| 79) 2-Chlorotoluene            | 12.94 | 91   | 203      | 52.863    | ug/l   | 82       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 204      | 43.076    | ug/l   | 79       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 253      | 756.235   | ug/l # | 90       |
| 82) 4-Chlorotoluene            | 12.94 | 91   | 204      | 49.896    | ug/l   | 82       |
| 83) tert-Butylbenzene          | 13.30 | 119  | 129      | 30.610    | ug/l   | 72       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 105      | 21.813    | ug/l   | 89       |
| 85) sec-Butylbenzene           | 13.32 | 105  | 233      | 38.713    | ug/l   | 81       |
| 86) p-Isopropyltoluene         | 13.41 | 119  | 593      | 112.482   | ug/l   | 84       |
| 87) 1,3-Dichlorobenzene        | 13.55 | 146  | 54       | 21.609    | ug/l # | 1        |
| 88) 1,4-Dichlorobenzene        | 13.57 | 146  | 62       | 24.964    | ug/l # | 1        |
| 89) n-Butylbenzene             | 13.82 | 91   | 104      | 20.091    | ug/l # | 52       |
| 90) Hexachloroethane           | 14.08 | 117  | 121      | 117.363   | ug/l # | 10       |
| 91) 1,2-Dichlorobenzene        | 13.79 | 146  | 70       | 31.657    | ug/l # | 24       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 112      | 658.040   | ug/l # | 1        |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.09 | 180  | 94       | 59.572 | ug/l # | 12       |
| 95) Naphthalene            | 15.37 | 128  | 22       | 7.940  | ug/l # | 1        |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 26       | 19.425 | ug/l # | 1        |

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

