

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080419\  
 Data File : VW011659.D  
 Acq On : 03 Aug 2019 12:21  
 Operator : SY/VA  
 Sample : VW0804SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBS01

Quant Time: Aug 04 02:00:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 255094   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 407684   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 356492   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 173114   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 157566   | 53.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.58% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 126853   | 55.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.92% |      |
| 50) Toluene-d8            | 10.32  | 98  | 531072   | 56.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.42% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 184397   | 55.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.46% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 30949  | 21.769 | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50  | 50548  | 20.505 | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 62475  | 21.050 | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 29144  | 17.740 | ug/l   | 96     |
| 6) Chloroethane               | 2.89 | 64  | 28955  | 17.079 | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 3.23 | 101 | 28207  | 21.266 | ug/l   | 96     |
| 8) Diethyl Ether              | 3.67 | 74  | 28837  | 19.175 | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 52338  | 20.801 | ug/l   | 100    |
| 10) Methyl Iodide             | 4.26 | 142 | 69501  | 19.546 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 53695  | 20.211 | ug/l   | 98     |
| 13) Acrolein                  | 3.89 | 56  | 17304  | 82.330 | ug/l   | 97     |
| 14) Allvl chloride            | 4.65 | 41  | 113598 | 20.104 | ug/l   | 97     |
| 15) Acrylonitrile             | 5.37 | 53  | 68991  | 91.898 | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43  | 66805  | 71.697 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.37 | 76  | 155910 | 18.750 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 38940  | 18.603 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 83479  | 19.801 | ug/l   | 99     |
| 20) Methylene Chloride        | 4.91 | 84  | 60152  | 18.719 | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 59284  | 20.698 | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.31 | 45  | 217927 | 20.456 | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.25 | 43  | 643638 | 96.150 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 117672 | 20.624 | ug/l   | 98     |
| 25) 2-Butanone                | 7.17 | 43  | 101131 | 82.945 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 64022  | 18.246 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 63157  | 20.035 | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 53797  | 21.243 | ug/l # | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 63576  | 91.223 | ug/l   | 97     |
| 30) Chloroform                | 7.67 | 83  | 107123 | 20.351 | ug/l   | 97     |
| 31) Cyclohexane               | 7.95 | 56  | 114713 | 20.945 | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 82270  | 20.523 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 89646  | 21.147 | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.25 | 43  | 44248  | 18.143 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 76732  | 21.144 | ug/l   | 99     |
| 39) Methylcyclohexane         | 9.33 | 83  | 102676 | 21.997 | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 40) Benzene                    | 8.32  | 78   | 247611   | 20.853  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 26422    | 18.123  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 76621    | 20.610  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 83004    | 18.506  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 60500    | 21.199  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 65167    | 20.511  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 28526    | 19.672  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 74760    | 19.654  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 40836    | 18.953  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 7527     | 358.488 | ug/l # | 74       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 213891   | 91.679  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 151340   | 21.105  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 76188    | 19.174  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 94600    | 20.023  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 41038    | 19.946  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 57362    | 19.052  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 76943    | 19.767  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 157761   | 115.407 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 145873   | 88.554  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 44520    | 19.493  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 38275    | 19.658  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 49732    | 21.426  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.66 | 112  | 147740   | 20.613  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 49290    | 19.744  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 289853   | 21.234  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 208940   | 42.090  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 96073    | 20.827  | ug/l   | 98       |
| 70) Stvrene                    | 12.18 | 104  | 164481   | 20.622  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 24043    | 18.889  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.46 | 105  | 271732   | 21.041  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 75193    | 18.597  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 47427    | 19.523  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 40895m   | 22.326  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 59509    | 20.847  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 338342   | 21.527  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 189217   | 20.897  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 232512   | 21.478  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 14296    | 17.987  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 202046   | 21.267  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 194775   | 21.515  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 230881   | 21.171  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 279710   | 21.654  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 249594   | 21.296  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 116135   | 20.749  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 114449   | 20.555  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 252541   | 21.592  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 41882    | 20.209  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 101085   | 20.420  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7804     | 18.839  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene     | 15.13 | 180  | 69979    | 20.058  | ug/l   | 99       |

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Quant Title : SW846 8260  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 15.24 | 225  | 46492    | 21.368 | ug/l  | 97       |
| 95) Naphthalene            | 15.37 | 128  | 117619   | 18.565 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 60151    | 19.669 | ug/l  | 99       |

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

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