

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110418\  
 Data File : VW006603.D  
 Acq On : 02 Nov 2018 16:06  
 Operator : SY/AP  
 Sample : VW1104SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1104SBS01

Manual Integrations  
 APPROVED

apatel  
 11/5/2018 10:12:40 AM

Quant Time: Nov 02 23:49:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 250123   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 350694   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 324752   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 184191   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 105816   | 49.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.44%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 112414   | 51.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.16% |      |
| 50) Toluene-d8            | 10.32  | 98  | 431496   | 51.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.00% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 152516   | 50.21 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.42% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 35008  | 26.999  | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50  | 37342  | 23.276  | ug/l   | 94     |
| 4) Vinyl Chloride             | 2.37 | 62  | 54477  | 24.319  | ug/l   | 98     |
| 5) Bromomethane               | 2.78 | 94  | 43945  | 23.376  | ug/l   | 98     |
| 6) Chloroethane               | 2.93 | 64  | 35606  | 22.749  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 44138  | 22.313  | ug/l   | 92     |
| 8) Diethyl Ether              | 3.68 | 74  | 22310  | 20.632  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 50336  | 23.829  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.26 | 142 | 77779  | 20.308  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 14919  | 128.787 | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 45896  | 22.496  | ug/l   | 91     |
| 13) Acrolein                  | 3.89 | 56  | 13823  | 94.874  | ug/l   | 96     |
| 14) Allyl chloride            | 4.66 | 41  | 57615  | 21.634  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 43028  | 110.976 | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43  | 56898  | 163.913 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.37 | 76  | 131444 | 22.640  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 21141  | 21.180  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 59311  | 19.530  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 48405  | 17.653  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 50761  | 21.988  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 117121 | 21.095  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 333084 | 108.186 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 81930  | 21.774  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 64704  | 130.628 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 52370  | 23.105  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 55173  | 21.362  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 30681  | 20.534  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 34671  | 111.285 | ug/l   | 98     |
| 30) Chloroform                | 7.68 | 83  | 88038  | 21.340  | ug/l   | 94     |
| 31) Cyclohexane               | 7.95 | 56  | 75462  | 22.035  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 76435  | 21.896  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 71766  | 23.270  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 24194  | 22.638  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 75000  | 23.273  | ug/l   | 99     |

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 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 91862    | 23.472  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 198000   | 22.603  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.49  | 41   | 13306    | 20.304  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 54912    | 21.858  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 45554    | 21.360  | ug/l   | 100      |
| 44) Trichloroethene            | 9.09  | 130  | 60594    | 22.416  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 45244    | 22.194  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 26337    | 21.978  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 61573    | 22.129  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 22380    | 21.781  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8153     | 464.889 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 123895   | 113.115 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 131596   | 22.398  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 59200    | 22.107  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 69365    | 21.920  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 36801    | 21.644  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 40983    | 21.207  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 59838    | 21.673  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 93053    | 99.054  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 94351    | 126.830 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 43676    | 21.681  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 36628    | 21.693  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 54586    | 21.086  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 150551   | 22.030  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 51429    | 21.412  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 253085   | 22.157  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 203926   | 44.687  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 93522    | 21.526  | ug/l   | 96       |
| 70) Styrene                    | 12.18 | 104  | 155241   | 21.917  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 27440    | 21.551  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 266183   | 21.938  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 44668    | 21.304  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 41911    | 21.870  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 31772m   | 22.108  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 67497    | 21.485  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 315157   | 22.582  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 175701   | 21.936  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 225627   | 22.134  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 10912    | 21.278  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 187362   | 22.111  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 199474   | 21.943  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 230891   | 22.083  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 288360   | 22.649  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 260486   | 22.485  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 139018   | 22.470  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 135323   | 22.066  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 239532   | 23.292  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 42085    | 22.103  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 120923   | 21.728  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6277     | 20.186  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 90113    | 21.776 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 58695    | 22.758 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 139433   | 20.965 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 79414    | 21.836 | ug/l  | 99       |

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

