

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW050818\  
 Data File : VW002290.D  
 Acq On : 08 May 2018 13:31  
 Operator : JC/SY  
 Sample : VW0508SBSD01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0508SBSD01

Quant Time: May 08 16:11:43 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 08 03:57:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 269963   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 395641   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 358448   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 196184   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 135413   | 47.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.46%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 127349   | 50.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.44% |      |
| 50) Toluene-d8            | 10.33  | 98  | 497759   | 51.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.94% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 180039   | 51.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.04% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 19081  | 18.70  | ug/l   | 94     |
| 3) Chloromethane              | 2.21 | 50  | 41367  | 19.97  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 63713  | 18.64  | ug/l   | 100    |
| 5) Bromomethane               | 2.77 | 94  | 53915  | 19.62  | ug/l   | 95     |
| 6) Chloroethane               | 2.92 | 64  | 45433  | 19.70  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.24 | 101 | 31331  | 22.45  | ug/l   | 94     |
| 8) Diethyl Ether              | 3.67 | 74  | 26754  | 17.13  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 47556  | 19.30  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.26 | 142 | 75691  | 18.93  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 17839  | 85.61  | ug/l # | 79     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 48408  | 19.81  | ug/l   | 98     |
| 13) Acrolein                  | 3.89 | 56  | 16999  | 97.44  | ug/l   | 96     |
| 14) Allyl chloride            | 4.65 | 41  | 71074  | 19.79  | ug/l   | 100    |
| 15) Acrylonitrile             | 5.36 | 53  | 55624  | 90.78  | ug/l   | 97     |
| 16) Acetone                   | 4.12 | 43  | 67340  | 120.27 | ug/l   | 94     |
| 17) Carbon Disulfide          | 4.37 | 76  | 138639 | 19.51  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 26335  | 15.68  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 80137  | 18.76  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.90 | 84  | 49521  | 18.35  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 50420  | 19.12  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.31 | 45  | 145416 | 18.47  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.25 | 43  | 454434 | 96.41  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 90290  | 18.92  | ug/l   | 100    |
| 25) 2-Butanone                | 7.18 | 43  | 78666  | 94.62  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 54440  | 22.88  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 55500  | 18.67  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.51 | 49  | 39662  | 18.37  | ug/l # | 100    |
| 29) Tetrahydrofuran           | 7.53 | 42  | 47615  | 87.33  | ug/l   | 99     |
| 30) Chloroform                | 7.67 | 83  | 94203  | 18.85  | ug/l   | 99     |
| 31) Cyclohexane               | 7.95 | 56  | 83566  | 19.62  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 74138  | 19.74  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 74192  | 20.73  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 32441  | 18.60  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.06 | 117 | 71919  | 20.78  | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Tue May 08 03:57:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 90312    | 21.63  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 207600   | 19.85  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 17648    | 17.66  | ug/l # | 86       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 63360    | 19.42  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 62374    | 18.85  | ug/l   | 100      |
| 44) Trichloroethene            | 9.10  | 130  | 57943    | 20.32  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 51077    | 19.49  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 28627    | 19.54  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 67919    | 19.65  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 29708    | 18.49  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8902     | 382.56 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 168071   | 92.10  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 132866   | 20.00  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 67742    | 19.93  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 77705    | 20.00  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 38337    | 18.59  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 48123    | 18.87  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 67271    | 19.19  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 115294   | 93.16  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 124494   | 99.73  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 46729    | 19.20  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 39442    | 19.56  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 50080    | 18.15  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.66 | 112  | 149309   | 20.38  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 51397    | 19.69  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 262238   | 20.83  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 201910   | 41.57  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 95369    | 20.65  | ug/l   | 98       |
| 70) Styrene                    | 12.19 | 104  | 155886   | 20.32  | ug/l   | 100      |
| 71) Bromoform                  | 12.36 | 173  | 28071    | 18.75  | ug/l   | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 262482   | 20.60  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 60385    | 18.94  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 46982    | 19.07  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 35578m   | 20.45  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 64833    | 20.18  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.82 | 91   | 315299   | 20.87  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 178769   | 20.55  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 222443   | 20.75  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 13617    | 20.62  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 13.00 | 91   | 188055   | 20.33  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.22 | 119  | 194050   | 21.03  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 226755   | 20.40  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 278772   | 21.16  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 249241   | 21.16  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 128742   | 20.25  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 128620   | 20.26  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 237566   | 21.55  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 43673    | 20.73  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 115629   | 20.04  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.50 | 75   | 7654     | 17.97  | ug/l   | 97       |

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Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 08 03:57:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 87545    | 21.23 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.26 | 225  | 50278    | 21.88 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 153776   | 20.28 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 78013    | 21.09 | ug/l  | 97       |

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

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