

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070518\  
 Data File : VW003714.D  
 Acq On : 05 Jul 2018 12:15  
 Operator : SY/AP  
 Sample : VW0705SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 Client Sample ID :  
 VW0705SBS01

Manual Integrations  
 APPROVED

apatel  
 7/6/2018 10:02:04 AM

Quant Time: Jul 06 02:53:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070218S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 03 08:55:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 257196   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 398990   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 368441   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 198879   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 145401   | 47.42 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.84% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 128338   | 49.32 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.64% |      |
| 50) Toluene-d8              | 10.32  | 98  | 509971   | 49.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.84% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 183132   | 49.90 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.80% |      |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 22382  | 19.370  | ug/l   | 94     |
| 3) Chloromethane              | 2.21 | 50  | 36254  | 17.696  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 48819  | 17.465  | ug/l   | 94     |
| 5) Bromomethane               | 2.78 | 94  | 32599  | 17.787  | ug/l   | 96     |
| 6) Chloroethane               | 2.92 | 64  | 30731  | 18.271  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 25567  | 17.200  | ug/l   | 91     |
| 8) Diethyl Ether              | 3.67 | 74  | 25874  | 18.812  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 47824  | 19.360  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.26 | 142 | 66809  | 18.418  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 15429  | 80.413  | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 45985  | 18.678  | ug/l   | 98     |
| 13) Acrolein                  | 3.89 | 56  | 9782   | 105.069 | ug/l   | 87     |
| 14) Allyl chloride            | 4.65 | 41  | 78339  | 18.604  | ug/l   | 100    |
| 15) Acrylonitrile             | 5.37 | 53  | 56436  | 88.472  | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43  | 65955  | 90.109  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.37 | 76  | 125736 | 17.012  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 29339  | 18.908  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 88061  | 18.311  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.90 | 84  | 61577  | 19.955  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 49126  | 18.219  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 162592 | 18.834  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 472790 | 90.156  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 97449  | 18.928  | ug/l   | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 83472  | 89.063  | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 61001  | 19.324  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 56073  | 19.096  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 45534  | 20.121  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 48082  | 85.583  | ug/l   | 99     |
| 30) Chloroform                | 7.68 | 83  | 100051 | 19.219  | ug/l   | 96     |
| 31) Cyclohexane               | 7.95 | 56  | 84774  | 18.085  | ug/l # | 93     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 79696  | 19.666  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 77205  | 19.276  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.26 | 43  | 34354  | 17.622  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 75004  | 19.686  | ug/l   | 97     |

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 Sample : VW0705SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VW0705SBS01

Manual Integrations  
 APPROVED

apatel  
 7/6/2018 10:02:04 AM

Quant Time: Jul 06 02:53:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070218S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 03 08:55:34 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 83565    | 18.118  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 217485   | 19.320  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 19554    | 17.646  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 67565    | 19.061  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 64676    | 17.614  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 56427    | 19.390  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 56518    | 19.354  | ug/l   | 96       |
| 46) Dibromomethane             | 9.46  | 93   | 28294    | 18.656  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 72383    | 19.307  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.44  | 41   | 31364    | 18.441  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.48  | 88   | 8260     | 347.193 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 174254   | 90.063  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 136887   | 19.486  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 74485    | 19.151  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 83442    | 18.923  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 40463    | 18.938  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 47633    | 18.168  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 71181    | 19.177  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 112889   | 98.846  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 128676   | 93.037  | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.13 | 129  | 48314    | 19.343  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 38994    | 19.054  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 48231    | 19.368  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.66 | 112  | 152489   | 19.686  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 54048    | 19.965  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 262759   | 19.360  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 204924   | 39.705  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 92014    | 19.285  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 156098   | 19.479  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 28492    | 18.942  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 261702   | 19.345  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 62631    | 17.533  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 49564    | 18.731  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 32958m   | 18.431  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 62760    | 19.330  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 328962   | 19.684  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 183201   | 19.264  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 226414   | 19.784  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 14982    | 17.753  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 197368   | 19.550  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 187910   | 19.465  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 233702   | 19.836  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 280486   | 19.526  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 246223   | 19.596  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 128941   | 19.568  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 129194   | 19.621  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 241580   | 19.447  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 45854    | 19.643  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 116522   | 19.777  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7922     | 17.183  | ug/l   | 98       |

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Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0705SBS01

Manual Integrations  
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apatel  
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Quant Time: Jul 06 02:53:32 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070218S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 03 08:55:34 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 80204    | 19.306 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 47190    | 19.668 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 135186   | 17.943 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 70725    | 19.112 | ug/l  | 99       |

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

