

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082918\  
 Data File : VW005006.D  
 Acq On : 29 Aug 2018 16:28  
 Operator : SY/AP  
 Sample : VW0829SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0829SBS01

Manual Integrations  
 APPROVED

apatel  
 8/30/2018 12:43:57 PM

Quant Time: Aug 30 01:57:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 30 01:51:13 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 537956   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 723514   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 751887   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 420674   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 173956   | 47.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.54%  |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 180618   | 50.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.76% |      |
| 50) Toluene-d8            | 10.33  | 98  | 1035928  | 52.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.26% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 376615   | 52.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.96% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 105146 | 22.625 | ug/l   | 97     |
| 3) Chloromethane              | 2.22 | 50  | 141269 | 21.403 | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.36 | 62  | 138106 | 20.962 | ug/l   | 100    |
| 5) Bromomethane               | 2.76 | 94  | 93764  | 21.772 | ug/l   | 92     |
| 6) Chloroethane               | 2.92 | 64  | 80461  | 20.653 | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 134537 | 19.750 | ug/l   | 98     |
| 8) Diethyl Ether              | 3.69 | 74  | 38360  | 19.804 | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 85735  | 20.391 | ug/l   | 97     |
| 10) Methyl Iodide             | 4.28 | 142 | 97216  | 16.895 | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.20 | 59  | 25969  | 97.396 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 76706  | 19.527 | ug/l   | 98     |
| 13) Acrolein                  | 3.90 | 56  | 28091  | 89.524 | ug/l   | 98     |
| 14) Allyl chloride            | 4.67 | 41  | 119216 | 19.709 | ug/l   | 99     |
| 15) Acrylonitrile             | 5.38 | 53  | 93806  | 94.968 | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43  | 75842  | 91.393 | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.38 | 76  | 326991 | 19.804 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 37469  | 18.641 | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 166207 | 19.689 | ug/l   | 97     |
| 20) Methylene Chloride        | 4.92 | 84  | 148062 | 22.689 | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 83882  | 19.666 | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.32 | 45  | 243574 | 19.726 | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 621644 | 98.468 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.23 | 63  | 147744 | 19.775 | ug/l   | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 126779 | 97.969 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 133099 | 20.297 | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 91515  | 19.723 | ug/l   | 98     |
| 28) Bromochloromethane        | 7.52 | 49  | 63586  | 19.355 | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 62080  | 94.964 | ug/l   | 98     |
| 30) Chloroform                | 7.68 | 83  | 143579 | 19.538 | ug/l   | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 160445 | 20.263 | ug/l # | 96     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 135852 | 20.092 | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 126982 | 20.713 | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 46684  | 21.127 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 123933 | 20.889 | ug/l   | 99     |

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 Sample : VW0829SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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Manual Integrations  
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apatel  
 8/30/2018 12:43:57 PM

Quant Time: Aug 30 01:57:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 30 01:51:13 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 166897   | 19.749  | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 397627   | 20.263  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 27293    | 21.195  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 86692    | 19.854  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 85005    | 19.333  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 100996   | 20.150  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 91698    | 20.424  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 42744    | 20.115  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 106851   | 20.350  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 42664    | 18.245  | ug/l   | 89       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 17399    | 394.565 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 320212   | 97.239  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 305879   | 21.010  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 111778   | 19.934  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 131646   | 20.133  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 67308    | 19.352  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 89841    | 19.693  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 112304   | 19.622  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 186886   | 95.085  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 239871   | 100.605 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 74745    | 19.581  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 62923    | 19.297  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 109548   | 19.983  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 336644   | 20.379  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 88535    | 19.513  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 578681   | 20.458  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 482949   | 41.861  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 218672   | 20.743  | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 361721   | 20.685  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 47823    | 18.956  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 587678   | 20.956  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 106455   | 20.116  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 83432    | 19.650  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 57284m   | 19.226  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 141236   | 20.527  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 731845   | 21.157  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 416104   | 20.828  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 521645   | 21.054  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 24742    | 18.768  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 440986   | 20.717  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 431847   | 20.752  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 520535   | 20.706  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 640276   | 20.960  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 577055   | 21.085  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 297315   | 20.383  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 291707   | 20.190  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 532644   | 20.733  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 85329    | 19.835  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 260540   | 20.291  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 14234    | 19.410  | ug/l   | 97       |

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ALS Vial : 12 Sample Multiplier: 1

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apatel  
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Quant Time: Aug 30 01:57:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 30 01:51:13 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 179425   | 19.946 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 114904   | 20.407 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 282664   | 19.648 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 155785   | 19.604 | ug/l  | 98       |

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

