

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090818\  
 Data File : VW005233.D  
 Acq On : 08 Sep 2018 03:10  
 Operator : SY/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW090818

Manual Integrations  
 APPROVED

apatel  
 9/10/2018 10:42:26 AM

Quant Time: Sep 08 04:13:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090818S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 08 03:55:32 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 541688   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 815984   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 788633   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 410066   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 215884   | 48.99 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.98%  |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 215505   | 48.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.50%  |      |
| 50) Toluene-d8            | 10.33  | 98  | 1118397  | 51.69 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.38% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 402368   | 50.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.74% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 200161  | 43.37  | ug/l | 100    |
| 3) Chloromethane              | 2.21 | 50  | 297863  | 44.96  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 276962  | 47.39  | ug/l | 99     |
| 5) Bromomethane               | 2.75 | 94  | 182609  | 50.82  | ug/l | 100    |
| 6) Chloroethane               | 2.91 | 64  | 159278  | 47.11  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 289590  | 46.51  | ug/l | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 114120  | 46.96  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 205419  | 47.23  | ug/l | 98     |
| 10) Methyl Iodide             | 4.28 | 142 | 282674  | 47.19  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.16 | 59  | 84369   | 230.86 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 195062  | 47.28  | ug/l | 99     |
| 13) Acrolein                  | 3.90 | 56  | 82597   | 252.84 | ug/l | 98     |
| 14) Allyl chloride            | 4.67 | 41  | 324696  | 49.88  | ug/l | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 276826  | 242.69 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 186960  | 234.10 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.38 | 76  | 711233  | 47.92  | ug/l | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 128194  | 48.93  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 533158  | 49.99  | ug/l | 98     |
| 20) Methylene Chloride        | 4.92 | 84  | 296230  | 47.50  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 234812  | 46.84  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.32 | 45  | 727649  | 51.72  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1957530 | 258.25 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.23 | 63  | 404082  | 48.04  | ug/l | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 312825  | 241.58 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.18 | 77  | 297719  | 46.93  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 259025  | 46.99  | ug/l | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 155835  | 48.19  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 216666  | 246.97 | ug/l | 98     |
| 30) Chloroform                | 7.68 | 83  | 401299  | 47.14  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 422740  | 50.82  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 359077  | 49.73  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 351531  | 49.86  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 144578  | 48.58  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 314016  | 48.14  | ug/l | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Sat Sep 08 03:55:32 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 460230   | 50.58   | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 1091677  | 48.86   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 71393    | 42.17   | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 245691   | 45.16   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 272356   | 48.78   | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 281543   | 48.07   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 260505   | 49.60   | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 120740   | 47.17   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 307063   | 49.52   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.45  | 41   | 146042   | 51.64   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 50556    | 1025.60 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 789888   | 255.30  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 761375   | 48.72   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 322175   | 48.97   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 380573   | 48.90   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 193330   | 46.68   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 273675   | 51.28   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 331971   | 47.95   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 605877   | 262.06  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 557006   | 257.57  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 218421   | 47.69   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 182273   | 47.54   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 293347   | 48.55   | ug/l   | 100      |
| 65) Chlorobenzene              | 11.66 | 112  | 842201   | 49.02   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 249318   | 48.88   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1471310  | 50.69   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.85 | 106  | 1162586  | 100.10  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 544861   | 50.07   | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 906037   | 50.33   | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 137025   | 48.37   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 1458418  | 52.35   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 300167   | 52.94   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 232205   | 50.40   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 160001m  | 48.61   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 344894   | 49.70   | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 1756739  | 52.36   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 1007401  | 51.17   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 1240747  | 51.80   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 67969    | 52.02   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 1046897  | 50.71   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 1057353  | 52.03   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 1257672  | 51.40   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 1534241  | 51.83   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 1356168  | 51.49   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 700123   | 49.38   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 691463   | 49.16   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 1259758  | 51.91   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 221847   | 51.18   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 626976   | 49.28   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 39293    | 50.62   | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Sat Sep 08 03:55:32 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 431933   | 50.51 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 262782   | 49.03 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 758976   | 46.72 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 378300   | 49.91 | ug/l  | 99       |

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

