

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090618\  
 Data File : VF060202.D  
 Acq On : 6 Sep 2018 14:06  
 Operator : VA/AP  
 Sample : VSTDICC100  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICC100

Quant Time: Sep 07 02:00:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 07 01:56:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 142135   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 200562   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 213872   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.64 | 152  | 139640   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.02   | 65  | 249192   | 100.90 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 201.80% |      |
| 35) Dibromofluoromethane  | 4.30   | 113 | 197402   | 100.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 201.70% |      |
| 50) Toluene-d8            | 7.71   | 98  | 487614   | 100.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 200.20% |      |
| 62) 4-Bromofluorobenzene  | 11.51  | 95  | 275166   | 99.76  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 199.52% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.97 | 85  | 259844 | 99.81  | ug/l   | 99     |
| 3) Chloromethane              | 1.07 | 50  | 139809 | 97.75  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.12 | 62  | 115178 | 105.96 | ug/l   | 98     |
| 5) Bromomethane               | 1.32 | 94  | 95456  | 97.48  | ug/l   | 96     |
| 6) Chloroethane               | 1.40 | 64  | 75515  | 106.62 | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 304030 | 99.39  | ug/l   | 97     |
| 8) Diethyl Ether              | 1.70 | 74  | 46114  | 101.17 | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.86 | 101 | 151973 | 101.07 | ug/l   | 98     |
| 10) Methyl Iodide             | 1.93 | 142 | 126564 | 96.16  | ug/l # | 94     |
| 11) Tert butyl alcohol        | 2.70 | 59  | 47040  | 429.12 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 1.83 | 96  | 100502 | 99.17  | ug/l   | 91     |
| 13) Acrolein                  | 2.10 | 56  | 25210  | 433.62 | ug/l # | 76     |
| 14) Allyl chloride            | 2.19 | 41  | 154830 | 101.83 | ug/l   | 97     |
| 15) Acrylonitrile             | 3.08 | 53  | 84148  | 450.59 | ug/l # | 88     |
| 16) Acetone                   | 2.35 | 43  | 220925 | 411.16 | ug/l   | 100    |
| 17) Carbon Disulfide          | 1.84 | 76  | 319351 | 107.77 | ug/l   | 99     |
| 18) Methyl Acetate            | 2.46 | 43  | 82065  | 94.42  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 2.54 | 73  | 339163 | 101.37 | ug/l   | 97     |
| 20) Methylene Chloride        | 2.28 | 84  | 113500 | 70.06  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 2.41 | 96  | 110032 | 106.62 | ug/l   | 92     |
| 22) Diisopropyl ether         | 2.93 | 45  | 379470 | 99.35  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.33 | 43  | 870674 | 651.44 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.01 | 63  | 249160 | 100.33 | ug/l   | 99     |
| 25) 2-Butanone                | 4.51 | 43  | 293365 | 428.81 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 3.75 | 77  | 359840 | 119.68 | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 3.64 | 96  | 140910 | 105.31 | ug/l   | 97     |
| 28) Bromochloromethane        | 3.89 | 49  | 76083  | 90.88  | ug/l # | 80     |
| 29) Tetrahydrofuran           | 4.26 | 42  | 98065  | 430.56 | ug/l   | 98     |
| 30) Chloroform                | 4.04 | 83  | 377548 | 102.96 | ug/l   | 98     |
| 31) Cyclohexane               | 3.85 | 56  | 168501 | 100.46 | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 4.27 | 97  | 371781 | 102.16 | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 4.45 | 75  | 242753 | 104.29 | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.30 | 43  | 111282 | 86.88  | ug/l # | 81     |
| 38) Carbon Tetrachloride      | 4.17 | 117 | 352856 | 108.40 | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Sep 07 01:56:36 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 5.62  | 83   | 205026   | 104.25 | ug/l   | 98       |
| 40) Benzene                    | 4.81  | 78   | 439836   | 106.23 | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.93  | 41   | 52547    | 86.46  | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 5.12  | 62   | 312803   | 102.88 | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.12  | 43   | 139390   | 101.55 | ug/l # | 97       |
| 44) Trichloroethene            | 5.67  | 130  | 161521   | 94.65  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 6.40  | 63   | 122277   | 103.26 | ug/l # | 87       |
| 46) Dibromomethane             | 6.25  | 93   | 113743   | 107.49 | ug/l   | 94       |
| 47) Bromodichloromethane       | 6.54  | 83   | 307648   | 107.63 | ug/l   | 95       |
| 48) Methyl methacrylate        | 6.87  | 41   | 112372   | 103.40 | ug/l   | 95       |
| 49) 1,4-Dioxane                | 6.88  | 88   | 10135    | 413.02 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 8.41  | 43   | 575219   | 471.63 | ug/l   | 99       |
| 52) Toluene                    | 7.78  | 92   | 311372   | 96.96  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 269413   | 112.96 | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.45  | 75   | 281195   | 114.89 | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 118273   | 97.97  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.76  | 69   | 143225   | 105.36 | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 212643   | 100.05 | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether  | 7.78  | 63   | 72608    | 501.11 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.63  | 43   | 435111   | 473.71 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.86  | 129  | 211068   | 106.09 | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 149651   | 103.91 | ug/l   | 93       |
| 64) Tetrachloroethene          | 8.30  | 164  | 209000   | 84.01  | ug/l   | 100      |
| 65) Chlorobenzene              | 9.94  | 112  | 425054   | 96.43  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 192196   | 98.82  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.03 | 91   | 806431   | 98.65  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.27 | 106  | 527757   | 192.67 | ug/l   | 97       |
| 69) o-Xylene                   | 10.82 | 106  | 292230   | 99.41  | ug/l   | 95       |
| 70) Styrene                    | 10.90 | 104  | 433982   | 97.61  | ug/l   | 97       |
| 71) Bromoform                  | 10.88 | 173  | 122352   | 107.71 | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.23 | 105  | 911903   | 94.70  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.46 | 43   | 203166   | 126.76 | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 139449   | 96.41  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 133557   | 87.31  | ug/l   | 84       |
| 77) Bromobenzene               | 11.59 | 156  | 236892   | 94.29  | ug/l   | 85       |
| 78) n-propylbenzene            | 11.69 | 91   | 1056936  | 91.97  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 647242   | 93.10  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 776227   | 91.54  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 36935    | 74.82  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 702097   | 91.10  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 744728   | 96.94  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 818668   | 94.73  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 976963   | 92.60  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 896844   | 95.02  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 422958   | 92.43  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.65 | 146  | 441003   | 97.64  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.92 | 91   | 881263   | 96.84  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.99 | 117  | 201642   | 105.01 | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 404116   | 92.55  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 41854    | 113.48 | ug/l   | 82       |

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Quant Title : SW846 8260  
QLast Update : Fri Sep 07 01:56:36 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.26 | 180  | 328672   | 97.62  | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.25 | 225  | 233162   | 96.79  | ug/l  | 99       |
| 95) Naphthalene            | 14.52 | 128  | 542338   | 115.23 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 322734   | 102.38 | ug/l  | 97       |

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

