

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
 Data File : VF061611.D  
 Acq On : 12 Feb 2019 16:18  
 Operator : VA/AP  
 Sample : K1343-09  
 Misc : 8.21g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-02-021119-E

Quant Time: Feb 13 02:49:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 04:51:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 1268     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 1697     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 999      | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 166      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 209      | 13.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 26.70%  |          |
| 35) Dibromofluoromethane    | 4.11  | 113  | 303      | 22.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 45.26%  |          |
| 50) Toluene-d8              | 7.55  | 98   | 1468     | 40.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.02%  |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 921      | 53.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.46% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 3) Chloromethane              | 1.10 | 50   | 91       | 4.981   | ug/l # | 44     |
| 4) Vinyl Chloride             | 1.26 | 62   | 137      | 8.431   | ug/l # | 43     |
| 5) Bromomethane               | 1.34 | 94   | 567      | 53.507  | ug/l # | 44     |
| 6) Chloroethane               | 1.33 | 64   | 66       | 9.166   | ug/l # | 41     |
| 8) Diethyl Ether              | 1.59 | 74   | 99       | 24.457  | ug/l   | 85     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.91 | 101  | 81       | 5.336   | ug/l # | 20     |
| 11) Tert butyl alcohol        | 2.57 | 59   | 91       | 137.327 | ug/l # | 1      |
| 12) 1,1-Dichloroethene        | 1.77 | 96   | 65       | 5.764   | ug/l # | 1      |
| 13) Acrolein                  | 1.88 | 56   | 162      | 282.428 | ug/l   | 87     |
| 14) Allyl chloride            | 2.06 | 41   | 1104     | 82.191  | ug/l # | 35     |
| 15) Acrylonitrile             | 2.95 | 53   | 218      | 128.433 | ug/l # | 69     |
| 16) Acetone                   | 2.30 | 43   | 559      | 177.992 | ug/l   | 97     |
| 17) Carbon Disulfide          | 1.87 | 76   | 66       | 1.877   | ug/l # | 69     |
| 18) Methyl Acetate            | 2.35 | 43   | 796      | 127.804 | ug/l # | 61     |
| 19) Methyl tert-butyl Ether   | 2.41 | 73   | 73       | 2.888   | ug/l # | 59     |
| 20) Methylene Chloride        | 2.14 | 84   | 81       | 6.053   | ug/l # | 1      |
| 21) trans-1,2-Dichloroethene  | 2.32 | 96   | 168      | 13.540  | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.78 | 45   | 1262     | 31.446  | ug/l # | 63     |
| 23) Vinyl Acetate             | 3.17 | 43   | 1011     | 59.735  | ug/l # | 78     |
| 24) 1,1-Dichloroethane        | 2.88 | 63   | 78       | 3.097   | ug/l # | 85     |
| 25) 2-Butanone                | 4.34 | 43   | 422      | 80.801  | ug/l # | 57     |
| 26) 2,2-Dichloropropane       | 3.70 | 77   | 60       | 3.877   | ug/l # | 61     |
| 28) Bromochloromethane        | 3.83 | 49   | 62       | 5.476   | ug/l # | 8      |
| 29) Tetrahydrofuran           | 4.07 | 42   | 62       | 27.570  | ug/l # | 38     |
| 31) Cyclohexane               | 3.70 | 56   | 68       | 2.703   | ug/l # | 13     |
| 37) Ethyl Acetate             | 4.10 | 43   | 85       | 10.807  | ug/l # | 5      |
| 39) Methylcyclohexane         | 5.54 | 83   | 76       | 3.564   | ug/l # | 15     |
| 40) Benzene                   | 4.54 | 78   | 60       | 1.370   | ug/l # | 52     |
| 41) Methacrylonitrile         | 4.69 | 41   | 252      | 60.214  | ug/l # | 29     |
| 43) Isopropyl Acetate         | 6.92 | 43   | 122      | 12.359  | ug/l # | 51     |
| 48) Methyl methacrylate       | 6.70 | 41   | 137      | 20.668  | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone      | 8.25 | 43   | 89       | 12.264  | ug/l # | 39     |
| 53) t-1,3-Dichloropropene     | 8.10 | 75   | 60       | 3.997   | ug/l # | 44     |
| 59) 2-Hexanone                | 9.46 | 43   | 203      | 40.115  | ug/l # | 26     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
 Data File : VF061611.D  
 Acq On : 12 Feb 2019 16:18  
 Operator : VA/AP  
 Sample : K1343-09  
 Misc : 8.21g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-02-021119-E

Quant Time: Feb 13 02:49:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 04:51:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 60) Dibromochloromethane       | 8.82  | 129  | 72       | 6.015   | ug/l # | 10       |
| 65) Chlorobenzene              | 9.86  | 112  | 73       | 3.593   | ug/l # | 43       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.97  | 131  | 62       | 7.661   | ug/l # | 8        |
| 67) Ethyl Benzene              | 9.89  | 91   | 70       | 1.886   | ug/l # | 46       |
| 71) Bromoform                  | 10.67 | 173  | 80       | 22.001  | ug/l # | 29       |
| 73) Isopropylbenzene           | 11.13 | 105  | 81       | 6.000   | ug/l # | 50       |
| 74) N-amyl acetate             | 11.38 | 43   | 253      | 79.248  | ug/l # | 8        |
| 75) 1,1,2,2-Tetrachloroethane  | 11.69 | 83   | 467      | 194.164 | ug/l # | 24       |
| 78) n-propylbenzene            | 11.60 | 91   | 73       | 4.181   | ug/l # | 54       |
| 79) 2-Chlorotoluene            | 11.72 | 91   | 329      | 35.121  | ug/l # | 45       |
| 80) 1,3,5-Trimethylbenzene     | 11.86 | 105  | 116      | 10.647  | ug/l # | 28       |
| 82) 4-Chlorotoluene            | 11.94 | 91   | 102      | 10.790  | ug/l # | 43       |
| 83) tert-Butylbenzene          | 12.08 | 119  | 61       | 5.409   | ug/l # | 28       |
| 84) 1,2,4-Trimethylbenzene     | 12.21 | 105  | 70       | 6.237   | ug/l # | 28       |
| 85) sec-Butylbenzene           | 12.35 | 105  | 82       | 5.354   | ug/l # | 56       |
| 86) p-Isopropyltoluene         | 12.43 | 119  | 78       | 6.204   | ug/l # | 50       |
| 87) 1,3-Dichlorobenzene        | 12.43 | 146  | 69       | 11.483  | ug/l # | 24       |
| 88) 1,4-Dichlorobenzene        | 12.43 | 146  | 69       | 12.806  | ug/l # | 24       |
| 89) n-Butylbenzene             | 12.84 | 91   | 346      | 26.687  | ug/l # | 27       |
| 90) Hexachloroethane           | 12.81 | 117  | 70       | 23.621  | ug/l # | 22       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.57 | 75   | 66       | 154.710 | ug/l # | 1        |
| 95) Naphthalene                | 14.43 | 128  | 82       | 11.551  | ug/l # | 71       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
Data File : VF061611.D  
Acq On : 12 Feb 2019 16:18  
Operator : VA/AP  
Sample : K1343-09  
Misc : 8.21a/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-E

Quant Time: Feb 13 02:49:41 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 16 04:51:59 2019  
Response via : Initial Calibration

