

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\  
 Data File : VF059828.D  
 Acq On : 3 Aug 2018 9:38  
 Operator : VA/AP  
 Sample : J4267-13  
 Misc : 5.02g/5mL/MSVOA F/SOIL  
 ALS Vial : 100 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 UST-W

Quant Time: Aug 03 10:51:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 15:23:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 6496     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 5168     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 1365     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 1430     | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| System Monitoring Compounds |        |     |          |       |        |       |
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 3007     | 25.76 | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 51.52% |       |
| 35) Dibromofluoromethane    | 4.28   | 113 | 2551     | 47.52 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.04% |       |
| 50) Toluene-d8              | 7.71   | 98  | 373      | 2.98  | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 5.96%  |       |
| 62) 4-Bromofluorobenzene    | 11.51  | 95  | 1185     | 17.10 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 34.20% |       |

| Target Compounds              |      |     |     |           |        | Qvalue |
|-------------------------------|------|-----|-----|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.87 | 85  | 65  | Below Cal | #      | 44     |
| 3) Chloromethane              | 1.10 | 50  | 445 | 7.63      | ug/l # | 38     |
| 4) Vinyl Chloride             | 1.13 | 62  | 61  | Below Cal | #      | 47     |
| 5) Bromomethane               | 1.35 | 94  | 70  | Below Cal | #      | 4      |
| 9) 1,1,2-Trichlorotrifluoroet | 1.87 | 101 | 79  | 1.24      | ug/l # | 22     |
| 12) 1,1-Dichloroethene        | 1.80 | 96  | 86  | 1.71      | ug/l # | 1      |
| 13) Acrolein                  | 1.96 | 56  | 72  | 43.39     | ug/l # | 4      |
| 14) Allyl chloride            | 2.20 | 41  | 102 | 1.27      | ug/l # | 55     |
| 15) Acrylonitrile             | 3.17 | 53  | 89  | 11.86     | ug/l # | 7      |
| 16) Acetone                   | 2.30 | 43  | 202 | 9.62      | ug/l # | 68     |
| 17) Carbon Disulfide          | 2.02 | 76  | 108 | Below Cal | #      | 71     |
| 18) Methyl Acetate            | 2.54 | 43  | 68  | Below Cal | #      | 64     |
| 20) Methylene Chloride        | 2.23 | 84  | 75  | Below Cal | #      | 1      |
| 21) trans-1,2-Dichloroethene  | 2.45 | 96  | 67  | Below Cal | #      | 1      |
| 25) 2-Butanone                | 4.52 | 43  | 271 | 11.56     | ug/l # | 74     |
| 28) Bromochloromethane        | 3.92 | 49  | 92  | Below Cal | #      | 15     |
| 29) Tetrahydrofuran           | 4.22 | 42  | 63  | 6.99      | ug/l # | 39     |
| 31) Cyclohexane               | 3.93 | 56  | 64  | Below Cal | #      | 15     |
| 36) 1,1-Dichloropropene       | 4.47 | 75  | 63  | Below Cal | #      | 46     |
| 37) Ethyl Acetate             | 4.32 | 43  | 160 | 1.73      | ug/l # | 19     |
| 41) Methacrylonitrile         | 4.93 | 41  | 240 | 16.57     | ug/l # | 58     |
| 42) 1,2-Dichloroethane        | 5.03 | 62  | 90  | 1.23      | ug/l # | 1      |
| 43) Isopropyl Acetate         | 7.21 | 43  | 70  | 2.27      | ug/l # | 46     |
| 45) 1,2-Dichloropropane       | 6.40 | 63  | 135 | 4.90      | ug/l # | 43     |
| 46) Dibromomethane            | 6.19 | 93  | 83  | 3.17      | ug/l # | 8      |
| 48) Methyl methacrylate       | 6.80 | 41  | 231 | 9.94      | ug/l # | 13     |
| 49) 1,4-Dioxane               | 6.38 | 88  | 63  | 395.36    | ug/l # | 21     |
| 51) 4-Methyl-2-Pentanone      | 8.39 | 43  | 60  | 2.55      | ug/l # | 42     |
| 53) t-1,3-Dichloropropene     | 8.31 | 75  | 72  | 1.16      | ug/l # | 41     |
| 54) cis-1,3-Dichloropropene   | 7.44 | 75  | 79  | 1.32      | ug/l # | 79     |
| 55) 1,1,2-Trichloroethane     | 8.71 | 97  | 64  | 2.26      | ug/l # | 14     |
| 56) Ethyl methacrylate        | 8.85 | 69  | 133 | 4.51      | ug/l # | 14     |
| 58) 2-Chloroethyl Vinyl ether | 7.83 | 63  | 229 | 67.28     | ug/l   | 100    |
| 59) 2-Hexanone                | 9.45 | 43  | 173 | 9.18      | ug/l   | 85     |

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|--------------------------------|-------|------|----------|-----------|--------|----------|
| -----                          |       |      |          |           |        |          |
| 64) Tetrachloroethene          | 8.33  | 164  | 71       | 3.60      | ug/l # | 1        |
| 65) Chlorobenzene              | 9.89  | 112  | 83       | 3.04      | ug/l # | 43       |
| 67) Ethyl Benzene              | 9.94  | 91   | 62       | 1.31      | ug/l # | 46       |
| 69) o-Xylene                   | 10.83 | 106  | 79       | 4.54      | ug/l # | 1        |
| 70) Styrene                    | 10.73 | 104  | 65       | 2.46      | ug/l # | 26       |
| 74) N-amyl acetate             | 11.48 | 43   | 372      | 15.71     | ug/l # | 48       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.69 | 83   | 65       | 3.68      | ug/l # | 25       |
| 78) n-propylbenzene            | 11.79 | 91   | 76       | Below Cal | #      | 54       |
| 79) 2-Chlorotoluene            | 11.79 | 91   | 76       | Below Cal | #      | 44       |
| 80) 1,3,5-Trimethylbenzene     | 11.97 | 105  | 72       | Below Cal | #      | 31       |
| 82) 4-Chlorotoluene            | 12.04 | 91   | 60       | Below Cal | #      | 44       |
| 84) 1,2,4-Trimethylbenzene     | 12.33 | 105  | 69       | Below Cal | #      | 33       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 79       | Below Cal | #      | 57       |
| 86) p-Isopropyltoluene         | 12.56 | 119  | 66       | Below Cal | #      | 49       |
| 87) 1,3-Dichlorobenzene        | 12.57 | 146  | 62       | Below Cal | #      | 24       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 62       | Below Cal | #      | 24       |
| 89) n-Butylbenzene             | 12.91 | 91   | 118      | Below Cal | #      | 29       |
| 91) 1,2-Dichlorobenzene        | 12.88 | 146  | 75       | Below Cal | #      | 24       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.73 | 75   | 92       | 21.31     | ug/l # | 52       |
| 95) Naphthalene                | 14.50 | 128  | 263      | 4.27      | ug/l # | 70       |
| 96) 1,2,3-Trichlorobenzene     | 14.53 | 180  | 67       | 1.97      | ug/l # | 13       |
| -----                          |       |      |          |           |        |          |

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

