

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\  
 Data File : VF059831.D  
 Acq On : 3 Aug 2018 11:01  
 Operator : VA/AP  
 Sample : J4267-12RE  
 Misc : 5.03g/5mL/MSVOA F/SOIL  
 ALS Vial : 100 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 UST-SRE

Quant Time: Aug 03 11:22:15 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  | 3951     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 2956     | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 615      | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 379      | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |        |         |       |
|-----------------------------|--------|-----|----------|--------|---------|-------|
| System Monitoring Compounds |        |     |          |        |         |       |
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 1878     | 26.45  | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 52.90%  |       |
| 35) Dibromofluoromethane    | 4.28   | 113 | 2051     | 66.80  | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =      | 133.60% |       |
| 50) Toluene-d8              | 7.70   | 98  | 631      | 8.81   | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =      | 17.62%  |       |
| 62) 4-Bromofluorobenzene    | 11.52  | 95  | 5519     | 139.24 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =      | 278.48% |       |

| Target Compounds           |      |     |     |           |      | Qvalue |
|----------------------------|------|-----|-----|-----------|------|--------|
| 2) Dichlorodifluoromethane | 1.06 | 85  | 60  | Below Cal | #    | 44     |
| 3) Chloromethane           | 1.10 | 50  | 232 | 5.76      | ug/l | 38     |
| 4) Vinyl Chloride          | 1.17 | 62  | 89  | Below Cal | #    | 1      |
| 5) Bromomethane            | 1.31 | 94  | 64  | Below Cal | #    | 4      |
| 6) Chloroethane            | 1.25 | 64  | 85  | 1.50      | ug/l | 35     |
| 11) Tert butyl alcohol     | 2.70 | 59  | 68  | 22.42     | ug/l | 74     |
| 12) 1,1-Dichloroethene     | 1.90 | 96  | 97  | 3.17      | ug/l | 1      |
| 13) Acrolein               | 2.07 | 56  | 66  | 57.25     | ug/l | 4      |
| 14) Allyl chloride         | 2.17 | 41  | 82  | 1.68      | ug/l | 1      |
| 15) Acrylonitrile          | 3.04 | 53  | 69  | 15.10     | ug/l | 7      |
| 16) Acetone                | 2.30 | 43  | 261 | 20.44     | ug/l | 68     |
| 17) Carbon Disulfide       | 2.02 | 76  | 60  | Below Cal | #    | 71     |
| 18) Methyl Acetate         | 2.47 | 43  | 139 | 2.27      | ug/l | 64     |
| 20) Methylene Chloride     | 2.29 | 84  | 81  | Below Cal | #    | 50     |
| 23) Vinyl Acetate          | 3.36 | 43  | 289 | 5.44      | ug/l | 83     |
| 25) 2-Butanone             | 4.55 | 43  | 150 | 10.52     | ug/l | 74     |
| 26) 2,2-Dichloropropane    | 3.73 | 77  | 67  | 1.31      | ug/l | 66     |
| 27) cis-1,2-Dichloroethene | 3.62 | 96  | 72  | 1.87      | ug/l | 1      |
| 28) Bromochloromethane     | 3.76 | 49  | 75  | Below Cal | #    | 15     |
| 29) Tetrahydrofuran        | 4.26 | 42  | 87  | 15.88     | ug/l | 39     |
| 30) Chloroform             | 3.92 | 83  | 148 | 1.46      | ug/l | 20     |
| 31) Cyclohexane            | 3.85 | 56  | 60  | Below Cal | #    | 15     |
| 36) 1,1-Dichloropropene    | 4.52 | 75  | 61  | Below Cal | #    | 2      |
| 37) Ethyl Acetate          | 4.23 | 43  | 131 | 4.68      | ug/l | 19     |
| 38) Carbon Tetrachloride   | 4.13 | 117 | 63  | 1.34      | ug/l | 14     |
| 39) Methylcyclohexane      | 5.58 | 83  | 72  | Below Cal | #    | 13     |
| 40) Benzene                | 4.77 | 78  | 186 | 3.12      | ug/l | 52     |
| 41) Methacrylonitrile      | 4.88 | 41  | 224 | 28.92     | ug/l | 24     |
| 42) 1,2-Dichloroethane     | 5.13 | 62  | 64  | 1.53      | ug/l | 85     |
| 43) Isopropyl Acetate      | 7.10 | 43  | 84  | 4.75      | ug/l | 46     |
| 45) 1,2-Dichloropropane    | 6.44 | 63  | 77  | 4.88      | ug/l | 43     |
| 46) Dibromomethane         | 6.22 | 93  | 78  | 5.21      | ug/l | 8      |
| 47) Bromodichloromethane   | 6.49 | 83  | 64  | 1.57      | ug/l | 25     |
| 48) Methyl methacrylate    | 6.82 | 41  | 523 | 39.34     | ug/l | 43     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 49) 1,4-Dioxane                | 6.68  | 88   | 66       | 775.15  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.36  | 43   | 336      | 24.99   | ug/l # | 42       |
| 53) t-1,3-Dichloropropene      | 8.50  | 75   | 106      | 3.00    | ug/l # | 41       |
| 54) cis-1,3-Dichloropropene    | 7.44  | 75   | 79       | 2.31    | ug/l # | 16       |
| 55) 1,1,2-Trichloroethane      | 8.54  | 97   | 702      | 43.42   | ug/l # | 38       |
| 56) Ethyl methacrylate         | 8.76  | 69   | 10614    | 629.51  | ug/l # | 71       |
| 57) 1,3-Dichloropropane        | 8.98  | 76   | 73       | 2.63    | ug/l # | 41       |
| 58) 2-Chloroethyl Vinyl ether  | 7.66  | 63   | 72       | 36.99   | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.54  | 43   | 1283     | 119.07  | ug/l # | 30       |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 62       | 3.28    | ug/l # | 4        |
| 66) 1,1,1,2-Tetrachloroethane  | 10.10 | 131  | 65       | 11.32   | ug/l # | 9        |
| 67) Ethyl Benzene              | 10.07 | 91   | 76       | 3.57    | ug/l # | 46       |
| 69) o-Xylene                   | 10.81 | 106  | 500      | 63.75   | ug/l   | 31       |
| 70) Styrene                    | 10.82 | 104  | 121      | 10.18   | ug/l # | 63       |
| 73) Isopropylbenzene           | 11.21 | 105  | 249      | 10.01   | ug/l # | 50       |
| 74) N-amyl acetate             | 11.36 | 43   | 8822     | 1406.13 | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane  | 11.75 | 83   | 9480     | 2025.15 | ug/l # | 64       |
| 76) 1,2,3-Trichloropropane     | 11.98 | 75   | 63       | 15.83   | ug/l # | 1        |
| 77) Bromobenzene               | 11.60 | 156  | 83       | 12.78   | ug/l # | 5        |
| 78) n-propylbenzene            | 11.70 | 91   | 700      | 24.95   | ug/l # | 54       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 692      | 42.48   | ug/l # | 44       |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 4411     | 241.35  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.98 | 75   | 63       | 38.22   | ug/l # | 1        |
| 82) 4-Chlorotoluene            | 12.07 | 91   | 574      | 32.06   | ug/l   | 89       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 426      | 19.08   | ug/l # | 26       |
| 84) 1,2,4-Trimethylbenzene     | 12.24 | 105  | 425      | 18.37   | ug/l   | 92       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 1786     | 72.76   | ug/l # | 70       |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 11172    | 561.76  | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene        | 12.66 | 146  | 69       | 2.57    | ug/l # | 1        |
| 89) n-Butylbenzene             | 12.90 | 91   | 4294     | 224.33  | ug/l # | 8        |
| 90) Hexachloroethane           | 12.99 | 117  | 684      | 109.05  | ug/l # | 18       |
| 91) 1,2-Dichlorobenzene        | 13.04 | 146  | 66       | 2.19    | ug/l # | 1        |
| 92) 1,2-Dibromo-3-Chloropropan | 13.68 | 75   | 203      | 177.39  | ug/l # | 44       |
| 93) 1,2,4-Trichlorobenzene     | 14.27 | 180  | 491      | 60.48   | ug/l # | 13       |
| 95) Naphthalene                | 14.52 | 128  | 845      | 51.71   | ug/l # | 14       |
| 96) 1,2,3-Trichlorobenzene     | 14.69 | 180  | 523      | 57.91   | ug/l # | 13       |

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

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