

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050719\  
 Data File : VF062360.D  
 Acq On : 7 May 2019 16:29  
 Operator : FY/SY  
 Sample : K2635-07  
 Misc : 6.70g/5mL/MSVOA F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 AU-05-050219-D

Quant Time: May 07 16:51:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 237      | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.82  | 114  | 63       | 50.00 | ug/l  | 0.05     |
| 63) Chlorobenzene-d5       | 9.94  | 117  | 84       | 50.00 | ug/l  | 0.04     |
| 72) 1,4-Dichlorobenzene-d4 | 12.69 | 152  | 80       | 50.00 | ug/l  | 0.08     |

## System Monitoring Compounds

|                           |       |     |          |        |         |       |
|---------------------------|-------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 5.06  | 65  | 143      | 63.85  | ug/l    | 0.04  |
| Spiked Amount 50.000      |       |     | Recovery | =      | 127.70% |       |
| 35) Dibromofluoromethane  | 4.35  | 113 | 67       | 133.49 | ug/l    | 0.05  |
| Spiked Amount 50.000      |       |     | Recovery | =      | 266.98% |       |
| 50) Toluene-d8            | 7.65  | 98  | 155      | 127.58 | ug/l    | -0.05 |
| Spiked Amount 50.000      |       |     | Recovery | =      | 255.16% |       |
| 62) 4-Bromofluorobenzene  | 11.49 | 95  | 145      | 264.53 | ug/l    | 0.00  |
| Spiked Amount 50.000      |       |     | Recovery | =      | 529.06% |       |

## Target Compounds

|                               |      |     |     |          |        | Qvalue |
|-------------------------------|------|-----|-----|----------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.98 | 85  | 85  | 30.989   | ug/l # | 41     |
| 3) Chloromethane              | 1.19 | 50  | 541 | 299.058  | ug/l # | 42     |
| 4) Vinyl Chloride             | 1.37 | 62  | 97  | 53.758   | ug/l # | 42     |
| 5) Bromomethane               | 1.40 | 94  | 75  | 55.354   | ug/l # | 3      |
| 6) Chloroethane               | 1.48 | 64  | 229 | 252.433  | ug/l # | 41     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 69  | 18.430   | ug/l # | 20     |
| 8) Diethyl Ether              | 1.74 | 74  | 147 | 259.499  | ug/l # | 1      |
| 9) 1,1,2-Trichlorotrifluoroet | 1.90 | 101 | 104 | 48.657   | ug/l # | 18     |
| 10) Methyl Iodide             | 1.88 | 142 | 66  | 18.738   | ug/l # | 29     |
| 11) Tert butyl alcohol        | 2.74 | 59  | 91  | 718.889  | ug/l # | 1      |
| 12) 1,1-Dichloroethene        | 1.86 | 96  | 810 | 445.775  | ug/l # | 1      |
| 13) Acrolein                  | 2.12 | 56  | 290 | 4025.145 | ug/l # | 79     |
| 14) Allyl chloride            | 2.20 | 41  | 413 | 257.304  | ug/l # | 56     |
| 15) Acrylonitrile             | 3.09 | 53  | 147 | 613.053  | ug/l # | 1      |
| 16) Acetone                   | 2.31 | 43  | 404 | 891.666  | ug/l # | 62     |
| 17) Carbon Disulfide          | 1.92 | 76  | 76  | 19.182   | ug/l # | 71     |
| 18) Methyl Acetate            | 2.47 | 43  | 205 | 261.338  | ug/l # | 58     |
| 19) Methyl tert-butyl Ether   | 2.54 | 73  | 361 | 96.245   | ug/l # | 24     |
| 20) Methylene Chloride        | 2.31 | 84  | 63  | 38.432   | ug/l # | 1      |
| 21) trans-1,2-Dichloroethene  | 2.42 | 96  | 290 | 167.513  | ug/l # | 4      |
| 22) Diisopropyl ether         | 2.92 | 45  | 87  | 17.342   | ug/l # | 61     |
| 23) Vinyl Acetate             | 3.33 | 43  | 319 | 142.674  | ug/l # | 79     |
| 24) 1,1-Dichloroethane        | 3.01 | 63  | 79  | 26.056   | ug/l # | 86     |
| 25) 2-Butanone                | 4.54 | 43  | 593 | 1041.772 | ug/l # | 60     |
| 26) 2,2-Dichloropropane       | 3.78 | 77  | 401 | 236.833  | ug/l   | 94     |
| 27) cis-1,2-Dichloroethene    | 3.61 | 96  | 170 | 78.557   | ug/l # | 17     |
| 28) Bromochloromethane        | 3.88 | 49  | 164 | 119.268  | ug/l # | 40     |
| 29) Tetrahydrofuran           | 4.24 | 42  | 352 | 1345.503 | ug/l # | 53     |
| 30) Chloroform                | 4.12 | 83  | 65  | 15.869   | ug/l # | 19     |
| 31) Cyclohexane               | 3.86 | 56  | 125 | 51.652   | ug/l # | 16     |
| 32) 1,1,1-Trichloroethane     | 4.28 | 97  | 65  | 18.515   | ug/l # | 22     |
| 36) 1,1-Dichloropropene       | 4.51 | 75  | 74  | 136.735  | ug/l # | 30     |
| 37) Ethyl Acetate             | 4.34 | 43  | 381 | 2014.950 | ug/l # | 82     |
| 38) Carbon Tetrachloride      | 4.23 | 117 | 74  | 136.643  | ug/l # | 14     |

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| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 39) Methylcyclohexane          | 5.92  | 83   | 66       | 121.599   | ug/l # | 3        |
| 40) Benzene                    | 4.86  | 78   | 170      | 142.648   | ug/l # | 1        |
| 41) Methacrylonitrile          | 4.99  | 41   | 614      | 4731.545  | ug/l # | 18       |
| 42) 1,2-Dichloroethane         | 5.25  | 62   | 62       | 124.391   | ug/l # | 82       |
| 43) Isopropyl Acetate          | 7.14  | 43   | 613      | 2490.235  | ug/l # | 89       |
| 44) Trichloroethene            | 5.81  | 130  | 96       | 219.287   | ug/l # | 2        |
| 45) 1,2-Dichloropropane        | 6.52  | 63   | 73       | 270.439   | ug/l # | 7        |
| 46) Dibromomethane             | 6.10  | 93   | 63       | 281.492   | ug/l # | 1        |
| 47) Bromodichloromethane       | 6.60  | 83   | 68       | 121.525   | ug/l # | 27       |
| 48) Methyl methacrylate        | 6.92  | 41   | 296      | 1701.543  | ug/l # | 30       |
| 49) 1,4-Dioxane                | 6.71  | 88   | 69       | 39063.408 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.45  | 43   | 318      | 1704.844  | ug/l # | 40       |
| 52) Toluene                    | 7.97  | 92   | 80       | 108.814   | ug/l # | 1        |
| 53) t-1,3-Dichloropropene      | 8.54  | 75   | 203      | 479.667   | ug/l # | 76       |
| 54) cis-1,3-Dichloropropene    | 7.51  | 75   | 66       | 134.000   | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane      | 8.60  | 97   | 72       | 308.499   | ug/l # | 14       |
| 56) Ethyl methacrylate         | 8.84  | 69   | 83       | 336.899   | ug/l # | 1        |
| 57) 1,3-Dichloropropane        | 8.87  | 76   | 60       | 170.196   | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether  | 7.50  | 63   | 105      | 1417.611  | ug/l # | 1        |
| 59) 2-Hexanone                 | 9.72  | 43   | 92       | 713.165   | ug/l # | 28       |
| 61) 1,2-Dibromoethane          | 9.08  | 107  | 146      | 532.256   | ug/l # | 44       |
| 64) Tetrachloroethene          | 8.22  | 164  | 67       | 98.249    | ug/l # | 1        |
| 65) Chlorobenzene              | 9.93  | 112  | 66       | 47.488    | ug/l # | 43       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.09 | 131  | 67       | 95.560    | ug/l # | 23       |
| 67) Ethyl Benzene              | 10.04 | 91   | 66       | 27.119    | ug/l # | 45       |
| 68) m/p-Xylenes                | 10.39 | 106  | 133      | 148.115   | ug/l # | 1        |
| 69) o-Xylene                   | 10.67 | 106  | 61       | 62.867    | ug/l # | 1        |
| 70) Styrene                    | 10.83 | 104  | 143      | 98.336    | ug/l # | 1        |
| 73) Isopropylbenzene           | 11.19 | 105  | 83       | 17.501    | ug/l # | 50       |
| 74) N-amyl acetate             | 11.48 | 43   | 190      | 186.605   | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane  | 11.76 | 83   | 143      | 192.569   | ug/l # | 22       |
| 76) 1,2,3-Trichloropropane     | 11.86 | 75   | 185      | 326.538   | ug/l # | 100      |
| 78) n-propylbenzene            | 11.67 | 91   | 63       | 12.477    | ug/l # | 52       |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 64       | 20.384    | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene     | 11.96 | 105  | 63       | 15.155    | ug/l # | 28       |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 73       | 342.789   | ug/l # | 86       |
| 82) 4-Chlorotoluene            | 12.22 | 91   | 240      | 77.393    | ug/l # | 93       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 84       | 19.228    | ug/l # | 42       |
| 84) 1,2,4-Trimethylbenzene     | 12.34 | 105  | 75       | 18.436    | ug/l # | 31       |
| 85) sec-Butylbenzene           | 12.34 | 105  | 75       | 14.104    | ug/l # | 57       |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 62       | 12.549    | ug/l # | 50       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 66       | 29.033    | ug/l # | 25       |
| 88) 1,4-Dichlorobenzene        | 12.56 | 146  | 66       | 30.081    | ug/l # | 25       |
| 89) n-Butylbenzene             | 12.98 | 91   | 134      | 30.486    | ug/l # | 29       |
| 90) Hexachloroethane           | 13.03 | 117  | 76       | 61.610    | ug/l # | 3        |
| 91) 1,2-Dichlorobenzene        | 12.90 | 146  | 62       | 28.178    | ug/l # | 24       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.67 | 75   | 72       | 432.788   | ug/l # | 29       |
| 95) Naphthalene                | 14.47 | 128  | 76       | 25.614    | ug/l # | 1        |

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| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

