

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060381.D
 Acq On : 28 Sep 2018 21:45
 Operator : VA/AP
 Sample : J5170-13
 Misc : 8.48/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

Quant Time: Sep 29 00:20:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene | 0.00 | 168 | 0 | 0.00 | ug/l | -5.04 |
| 34) 1,4-Difluorobenzene | 5.71 | 114 | 93 | 50.00 | ug/l | -0.04 |
| 63) Chlorobenzene-d5 | 9.71 | 117 | 63 | 50.00 | ug/l | -0.20 |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152 | 67 | 50.00 | ug/l | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 4.83 | 65 | 133 | 0.00 | ug/l | -0.17 |
| Spiked Amount | 50.000 | | Recovery | = | 0.00% | |
| 35) Dibromofluoromethane | 4.11 | 113 | 82 | 98.91 | ug/l | -0.17 |
| Spiked Amount | 50.000 | | Recovery | = | 197.82% | |
| 50) Toluene-d8 | 7.74 | 98 | 91 | 42.15 | ug/l | 0.03 |
| Spiked Amount | 50.000 | | Recovery | = | 84.30% | |
| 62) 4-Bromofluorobenzene | 11.40 | 95 | 61 | 65.36 | ug/l | -0.10 |
| Spiked Amount | 50.000 | | Recovery | = | 130.72% | |

Target Compounds

| | | | | | | Qvalue |
|-------------------------------|-------|-----|-----|-----------|--------|--------|
| 36) 1,1-Dichloropropene | 4.42 | 75 | 77 | 66.377 | ug/l # | 16 |
| 37) Ethyl Acetate | 4.23 | 43 | 322 | 656.009 | ug/l # | 1 |
| 38) Carbon Tetrachloride | 4.03 | 117 | 104 | 83.466 | ug/l # | 14 |
| 39) Methylcyclohexane | 5.50 | 83 | 96 | 76.356 | ug/l # | 69 |
| 40) Benzene | 4.79 | 78 | 72 | 27.372 | ug/l # | 53 |
| 41) Methacrylonitrile | 4.86 | 41 | 807 | 3029.914 | ug/l # | 23 |
| 42) 1,2-Dichloroethane | 4.90 | 62 | 82 | 84.695 | ug/l | 79 |
| 43) Isopropyl Acetate | 7.02 | 43 | 260 | 439.997 | ug/l # | 48 |
| 45) 1,2-Dichloropropane | 6.44 | 63 | 79 | 116.047 | ug/l # | 1 |
| 47) Bromodichloromethane | 6.52 | 83 | 67 | 57.295 | ug/l # | 26 |
| 48) Methyl methacrylate | 6.83 | 41 | 304 | 732.877 | ug/l # | 75 |
| 49) 1,4-Dioxane | 6.80 | 88 | 63 | 17000.213 | ug/l # | 19 |
| 51) 4-Methyl-2-Pentanone | 8.31 | 43 | 328 | 720.182 | ug/l # | 35 |
| 52) Toluene | 7.73 | 92 | 67 | 40.263 | ug/l # | 1 |
| 53) t-1,3-Dichloropropene | 8.47 | 75 | 63 | 66.790 | ug/l # | 42 |
| 54) cis-1,3-Dichloropropene | 7.36 | 75 | 80 | 67.323 | ug/l # | 1 |
| 55) 1,1,2-Trichloroethane | 8.55 | 97 | 90 | 178.199 | ug/l # | 17 |
| 56) Ethyl methacrylate | 8.73 | 69 | 137 | 224.601 | ug/l # | 20 |
| 57) 1,3-Dichloropropane | 8.95 | 76 | 96 | 114.797 | ug/l # | 40 |
| 58) 2-Chloroethyl Vinyl ether | 7.73 | 63 | 76 | 1409.413 | ug/l | 100 |
| 59) 2-Hexanone | 9.52 | 43 | 402 | 1239.682 | ug/l | 94 |
| 61) 1,2-Dibromoethane | 9.17 | 107 | 62 | 110.239 | ug/l # | 4 |
| 65) Chlorobenzene | 9.94 | 112 | 69 | 48.324 | ug/l # | 41 |
| 67) Ethyl Benzene | 10.05 | 91 | 67 | 25.378 | ug/l # | 46 |
| 68) m/p-Xylenes | 10.20 | 106 | 118 | 129.372 | ug/l # | 3 |
| 69) o-Xylene | 10.88 | 106 | 70 | 68.423 | ug/l # | 1 |
| 71) Bromoform | 10.93 | 173 | 72 | 221.244 | ug/l # | 31 |
| 73) Isopropylbenzene | 11.35 | 105 | 107 | 17.790 | ug/l # | 51 |
| 74) N-amyl acetate | 11.46 | 43 | 770 | 600.334 | ug/l # | 46 |
| 75) 1,1,2,2-Tetrachloroethane | 11.76 | 83 | 129 | 121.019 | ug/l # | 27 |
| 76) 1,2,3-Trichloropropane | 11.85 | 75 | 59 | 77.303 | ug/l # | 34 |
| 78) n-propylbenzene | 11.66 | 91 | 219 | 34.330 | ug/l # | 57 |
| 79) 2-Chlorotoluene | 11.80 | 91 | 73 | 17.992 | ug/l # | 42 |
| 80) 1,3,5-Trimethylbenzene | 11.92 | 105 | 73 | 15.077 | ug/l # | 28 |

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|--------------------------------|-------|------|----------|---------|--------|----------|
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75 | 100 | 247.924 | ug/l # | 20 |
| 82) 4-Chlorotoluene | 11.95 | 91 | 98 | 24.031 | ug/l # | 43 |
| 83) tert-Butylbenzene | 12.20 | 119 | 64 | 13.040 | ug/l # | 29 |
| 84) 1,2,4-Trimethylbenzene | 12.26 | 105 | 59 | 12.001 | ug/l # | 31 |
| 85) sec-Butylbenzene | 12.37 | 105 | 103 | 11.604 | ug/l # | 58 |
| 86) p-Isopropyltoluene | 12.60 | 119 | 133 | 25.196 | ug/l # | 1 |
| 87) 1,3-Dichlorobenzene | 12.67 | 146 | 71 | 29.312 | ug/l # | 24 |
| 88) 1,4-Dichlorobenzene | 12.67 | 146 | 71 | 29.656 | ug/l # | 25 |
| 89) n-Butylbenzene | 12.96 | 91 | 92 | 14.008 | ug/l # | 28 |
| 90) Hexachloroethane | 13.04 | 117 | 90 | 65.530 | ug/l # | 22 |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75 | 105 | 524.648 | ug/l # | 1 |
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180 | 75 | 44.657 | ug/l # | 10 |
| 94) Hexachlorobutadiene | 14.09 | 225 | 131 | 115.384 | ug/l # | 47 |
| 95) Naphthalene | 14.53 | 128 | 75 | 25.471 | ug/l # | 68 |
| 96) 1,2,3-Trichlorobenzene | 14.72 | 180 | 73 | 47.040 | ug/l # | 12 |

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

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