

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110618\  
 Data File : VD060290.D  
 Acq On : 6 Nov 2018 14:08  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD110618

Quant Time: Nov 06 14:36:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.43  | 168  | 1609743  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.46  | 114  | 2190668  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.30 | 117  | 1661021  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 868889   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.80  | 65   | 587328   | 50.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.92% |          |
| 35) Dibromofluoromethane    | 6.34  | 113  | 848627   | 51.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.90% |          |
| 50) Toluene-d8              | 9.48  | 98   | 2494766  | 52.18 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 104.36% |          |
| 62) 4-Bromofluorobenzene    | 12.44 | 95   | 898521   | 51.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.74% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85   | 662241   | 52.696  | ug/l   | 98     |
| 3) Chloromethane              | 1.76 | 50   | 745812   | 48.912  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.86 | 62   | 606416   | 48.698  | ug/l   | 98     |
| 5) Bromomethane               | 2.17 | 94   | 180454   | 61.080  | ug/l   | 99     |
| 6) Chloroethane               | 2.27 | 64   | 233764   | 56.577  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 757403   | 51.589  | ug/l   | 95     |
| 8) Diethyl Ether              | 2.83 | 74   | 141536   | 53.248  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.11 | 101  | 493765   | 51.134  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.26 | 142  | 621716   | 49.572  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 3.99 | 59   | 123087   | 260.061 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 3.09 | 96   | 396022   | 50.419  | ug/l   | 94     |
| 13) Acrolein                  | 2.99 | 56   | 141949   | 253.818 | ug/l   | 95     |
| 14) Allyl chloride            | 3.55 | 41   | 791087   | 52.638  | ug/l   | 99     |
| 15) Acrylonitrile             | 4.10 | 53   | 734810   | 266.233 | ug/l   | 98     |
| 16) Acetone                   | 3.18 | 43   | 511649   | 255.913 | ug/l   | 96     |
| 17) Carbon Disulfide          | 3.33 | 76   | 1307345  | 51.566  | ug/l   | 100    |
| 18) Methyl Acetate            | 3.57 | 43   | 227874   | 53.454  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.14 | 73   | 1225354  | 52.100  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.74 | 84   | 902108   | 50.865  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 4.11 | 96   | 902283   | 51.737  | ug/l   | 99     |
| 22) Diisopropyl ether         | 4.87 | 45   | 2942022  | 52.398  | ug/l   | 96     |
| 23) Vinyl Acetate             | 4.82 | 43   | 7419422  | 265.564 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.77 | 63   | 1450032  | 50.361  | ug/l   | 99     |
| 25) 2-Butanone                | 5.64 | 43   | 1070393  | 257.573 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 5.61 | 77   | 1168105  | 52.182  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 5.61 | 96   | 943224   | 51.916  | ug/l   | 97     |
| 28) Bromochloromethane        | 5.94 | 49   | 644873   | 50.761  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 5.97 | 42   | 573718   | 261.853 | ug/l   | 99     |
| 30) Chloroform                | 6.12 | 83   | 1473910  | 51.206  | ug/l   | 98     |
| 31) Cyclohexane               | 6.39 | 56   | 1349479  | 49.037  | ug/l   | 100    |
| 32) 1,1,1-Trichloroethane     | 6.31 | 97   | 1263425  | 52.108  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 6.54 | 75   | 1124618  | 51.963  | ug/l   | 98     |
| 37) Ethyl Acetate             | 5.72 | 43   | 572005   | 57.435  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 6.51 | 117  | 1051361  | 52.367  | ug/l   | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 8.06  | 83   | 1304546  | 52.407   | ug/l   | 98       |
| 40) Benzene                    | 6.81  | 78   | 2888742  | 52.289   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.96  | 41   | 623208   | 54.673   | ug/l # | 96       |
| 42) 1,2-Dichloroethane         | 6.91  | 62   | 757909   | 52.413   | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.36  | 43   | 684169   | 54.690   | ug/l # | 98       |
| 44) Trichloroethene            | 7.75  | 130  | 891959   | 53.261   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 8.12  | 63   | 732767   | 52.592   | ug/l   | 98       |
| 46) Dibromomethane             | 8.24  | 93   | 439305   | 53.834   | ug/l   | 97       |
| 47) Bromodichloromethane       | 8.51  | 83   | 1007747  | 52.406   | ug/l   | 99       |
| 48) Methyl methacrylate        | 8.27  | 41   | 414452   | 54.542   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 8.25  | 88   | 73391    | 1116.259 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 9.36  | 43   | 2129678  | 261.559  | ug/l   | 98       |
| 52) Toluene                    | 9.57  | 92   | 1876800  | 53.182   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.94  | 75   | 888622   | 54.692   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.12  | 75   | 1133836  | 54.409   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.20 | 97   | 529762   | 51.793   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.05 | 69   | 520949   | 55.394   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.40 | 76   | 801796   | 51.444   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.95  | 63   | 1445878  | 254.269  | ug/l   | 95       |
| 59) 2-Hexanone                 | 10.50 | 43   | 1631306  | 281.100  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.66 | 129  | 685171   | 55.107   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.78 | 107  | 550517   | 53.718   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.27 | 164  | 796913   | 53.742   | ug/l   | 96       |
| 65) Chlorobenzene              | 11.33 | 112  | 1938534  | 53.864   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.44 | 131  | 645487   | 54.816   | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.44 | 91   | 3221703  | 52.329   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.58 | 106  | 2495939  | 109.903  | ug/l   | 97       |
| 69) o-Xylene                   | 11.95 | 106  | 1195960  | 54.509   | ug/l   | 96       |
| 70) Styrene                    | 11.97 | 104  | 1970302  | 55.567   | ug/l   | 99       |
| 71) Bromoform                  | 12.12 | 173  | 463560   | 58.584   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.29 | 105  | 3291668  | 51.997   | ug/l   | 97       |
| 74) N-amyl acetate             | 12.14 | 43   | 909422   | 56.033   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 554589   | 53.567   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.61 | 75   | 563363   | 54.201   | ug/l   | 99       |
| 77) Bromobenzene               | 12.56 | 156  | 873476   | 51.945   | ug/l   | 89       |
| 78) n-propylbenzene            | 12.65 | 91   | 4111063  | 52.028   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.71 | 91   | 2266624  | 52.375   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 2556720  | 51.968   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.35 | 75   | 163387   | 55.214   | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.82 | 91   | 2509564  | 51.623   | ug/l   | 91       |
| 83) tert-Butylbenzene          | 13.06 | 119  | 2925357  | 53.558   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.11 | 105  | 2601523  | 52.948   | ug/l   | 95       |
| 85) sec-Butylbenzene           | 13.24 | 105  | 3385073  | 50.514   | ug/l   | 95       |
| 86) p-Isopropyltoluene         | 13.35 | 119  | 2842239  | 52.668   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.32 | 146  | 1587289  | 53.056   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 13.40 | 146  | 1528152  | 52.301   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.66 | 91   | 2765873  | 53.294   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 690354   | 53.950   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.67 | 146  | 1269164  | 51.648   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 67140    | 53.723   | ug/l   | 95       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.80 | 180  | 1036430  | 53.196 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.89 | 225  | 740363   | 50.804 | ug/l  | 99       |
| 95) Naphthalene            | 14.98 | 128  | 1279355  | 53.776 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.13 | 180  | 833876   | 53.411 | ug/l  | 98       |

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

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