

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD011921\  
 Data File : VD068084.D  
 Acq On : 19 Jan 2021 11:34  
 Operator : VA/SY  
 Sample : VSTDIC020  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

MMDadoda  
 1/20/2021 4:56:53 PM

Quant Time: Jan 19 12:24:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 12:20:30 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.985          | 168  | 556372     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 956056     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 849038     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 385132     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 115013     | 23.85   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 47.70%# |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 113916     | 21.02   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 42.04%# |        |          |
| 50) Toluene-d8               | 10.343         | 98   | 466108     | 23.10   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 46.20%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.631         | 95   | 162517     | 22.79   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 45.58%  |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 135683     | 26.34   | ug/l   | 91       |
| 3) Chloromethane             | 2.208          | 50   | 142953     | 28.87   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 159483     | 29.19   | ug/l   | 99       |
| 5) Bromomethane              | 2.755          | 94   | 105765     | 25.49   | ug/l   | 99       |
| 6) Chloroethane              | 2.920          | 64   | 97222      | 28.31   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 207645     | 20.83   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.714          | 74   | 58944      | 23.59   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.102          | 101  | 120608     | 21.95   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.308          | 142  | 108339     | 19.12   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.208          | 59   | 68089      | 168.34  | ug/l   | 95       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 121413     | 22.96   | ug/l   | 98       |
| 13) Acrolein                 | 3.926          | 56   | 45430      | 121.53  | ug/l   | 97       |
| 14) Allyl chloride           | 4.720          | 41   | 175022     | 27.20   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.426          | 53   | 117443     | 121.65  | ug/l   | 97       |
| 16) Acetone                  | 4.161          | 43   | 88416      | 113.12  | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.414          | 76   | 391320     | 24.52   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.720          | 43   | 48941      | 23.89   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 275819     | 25.03   | ug/l   | 92       |
| 20) Methylene Chloride       | 4.973          | 84   | 142898     | 18.66   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 135478     | 22.88   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.367          | 45   | 353331     | 27.57   | ug/l # | 94       |
| 23) Vinyl Acetate            | 6.308          | 43   | 933020     | 138.96  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 229941     | 24.37   | ug/l   | 96       |
| 25) 2-Butanone               | 7.214          | 43   | 138643     | 134.23  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 213630     | 23.10   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 152280     | 23.77   | ug/l   | 92       |
| 28) Bromochloromethane       | 7.549          | 49   | 85268      | 27.17   | ug/l # | 78       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 89457      | 134.90  | ug/l   | 93       |
| 30) Chloroform               | 7.714          | 83   | 228068     | 21.87   | ug/l   | 97       |
| 31) Cyclohexane              | 7.985          | 56   | 223426     | 26.29   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.908          | 97   | 209611     | 20.98   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 188729     | 21.87   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.296          | 43   | 65874      | 24.27   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.102          | 117  | 175954     | 17.79   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.355          | 83   | 248199     | 23.54   | ug/l   | 96       |
| 40) Benzene                  | 8.355          | 78   | 530393     | 21.88   | ug/l   | 94       |

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Quant Time: Jan 19 12:24:16 2021  
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 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 12:20:30 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 41901m   | 27.10  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.432  | 62   | 142818   | 21.14  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 138279   | 26.63  | ug/l   | 97       |
| 44) Trichloroethene           | 9.114  | 130  | 145712   | 19.89  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.390  | 63   | 129253   | 22.95  | ug/l   | 94       |
| 46) Dibromomethane            | 9.479  | 93   | 63698    | 19.75  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.667  | 83   | 176753   | 20.18  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.461  | 41   | 68947    | 25.91  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 15906    | 459.85 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 322432   | 126.13 | ug/l   | 96       |
| 52) Toluene                   | 10.408 | 92   | 347040   | 21.52  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.626 | 75   | 180300   | 23.05  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.090 | 75   | 214966   | 23.05  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 91647    | 20.01  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 123958   | 25.37  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.949 | 76   | 163264   | 22.06  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.943  | 63   | 310625   | 130.04 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.984 | 43   | 221612   | 125.19 | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.143 | 129  | 116456   | 18.84  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 91146    | 20.83  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.879 | 164  | 119639   | 19.77  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.673 | 112  | 361176   | 21.29  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 123424   | 19.34  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.743 | 91   | 662038   | 22.39  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.855 | 106  | 501179   | 43.68  | ug/l   | 97       |
| 69) o-Xylene                  | 12.184 | 106  | 228583   | 21.84  | ug/l   | 99       |
| 70) Styrene                   | 12.196 | 104  | 396427   | 22.03  | ug/l   | 98       |
| 71) Bromoform                 | 12.361 | 173  | 64063    | 18.98  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.478 | 105  | 631942   | 23.36  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.290 | 43   | 130129   | 28.99  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.731 | 83   | 98463    | 22.89  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.784 | 75   | 66556m   | 21.89  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 133957   | 20.83  | ug/l   | 84       |
| 78) n-propylbenzene           | 12.820 | 91   | 755470   | 23.75  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 420917   | 23.30  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 529402   | 22.91  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 36046    | 25.04  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.008 | 91   | 440620   | 22.99  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.225 | 119  | 443978   | 22.77  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 528646   | 23.33  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 627227   | 22.96  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 570188   | 22.57  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 261870   | 21.11  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.596 | 146  | 256964   | 20.52  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.843 | 91   | 548174   | 23.79  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.114 | 117  | 100538   | 20.67  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.890 | 146  | 224798   | 20.95  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.508 | 75   | 16153    | 23.08  | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 15.161 | 180  | 150694   | 20.65  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.267 | 225  | 84517    | 18.50  | ug/l   | 99       |
| 95) Naphthalene               | 15.402 | 128  | 281469   | 22.90  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 129196   | 20.67  | ug/l   | 98       |

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

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