

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD082322\  
 Data File : VD074196.D  
 Acq On : 23 Aug 2022 21:10  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 24 06:21:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D082322S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 23 13:12:17 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 08/24/2022  
 Supervised By :Mahesh Dadoda 08/24/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.967          | 168  | 153434     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 248208     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 232012     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 121122     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 74126      | 47.278   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.560%  |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 81588      | 49.143   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.280%  |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 249195     | 46.637   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 93.280%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 108512     | 51.406   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 102.820% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 62603      | 48.622   | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 47438      | 51.711   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.344          | 62   | 50739      | 52.687   | ug/l   | 94       |
| 5) Bromomethane              | 2.762          | 94   | 31151      | 50.087   | ug/l   | 93       |
| 6) Chloroethane              | 2.915          | 64   | 33298      | 53.279   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.262          | 101  | 141093     | 50.432   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.703          | 74   | 40621      | 54.031   | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 87582      | 51.738   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.291          | 142  | 109257     | 53.230   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.226          | 59   | 27677      | 283.476  | ug/l   | 95       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 80315      | 53.052   | ug/l   | 96       |
| 13) Acrolein                 | 3.920          | 56   | 9350       | 239.748  | ug/l   | 97       |
| 14) Allyl chloride           | 4.709          | 41   | 124258     | 52.427   | ug/l # | 94       |
| 15) Acrylonitrile            | 5.409          | 53   | 98909      | 282.948  | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 74803      | 250.423  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.403          | 76   | 246809     | 50.522   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.720          | 43   | 48903      | 55.604   | ug/l # | 90       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 204341     | 56.363   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.962          | 84   | 108974     | 58.000   | ug/l   | 85       |
| 21) trans-1,2-Dichloroethene | 5.461          | 96   | 98203      | 55.475   | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.361          | 45   | 269176     | 55.378   | ug/l # | 88       |
| 23) Vinyl Acetate            | 6.297          | 43   | 724370     | 263.677  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.256          | 63   | 168893     | 52.704   | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 126383     | 273.306  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 145904     | 50.531   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 106340     | 53.456   | ug/l   | 93       |
| 28) Bromochloromethane       | 7.538          | 49   | 54504      | 56.268   | ug/l # | 78       |
| 29) Tetrahydrofuran          | 7.556          | 42   | 81206      | 290.989  | ug/l   | 92       |
| 30) Chloroform               | 7.703          | 83   | 180731     | 53.491   | ug/l   | 96       |
| 31) Cyclohexane              | 7.979          | 56   | 143034     | 51.254   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 164414     | 52.512   | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.103          | 75   | 134711     | 53.684   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.291          | 43   | 59759      | 60.401   | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 141202     | 52.383   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.344          | 83   | 153437     | 48.476   | ug/l   | 94       |
| 40) Benzene                  | 8.344          | 78   | 385481     | 54.498   | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 24 06:21:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D082322S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 23 13:12:17 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 08/24/2022  
 Supervised By :Mahesh Dadoda 08/24/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 29596    | 49.764   | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 112644   | 54.026   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 110025   | 55.286   | ug/l # | 93       |
| 44) Trichloroethene           | 9.102  | 130  | 106241   | 51.808   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.373  | 63   | 95837    | 54.278   | ug/l   | 95       |
| 46) Dibromomethane            | 9.467  | 93   | 55366    | 56.207   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.649  | 83   | 141243   | 55.128   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.444  | 41   | 53639    | 58.301   | ug/l # | 89       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 13257    | 1186.051 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 291345   | 293.028  | ug/l   | 94       |
| 52) Toluene                   | 10.397 | 92   | 249282   | 53.613   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 126598   | 54.487   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 150421   | 54.602   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 73934    | 54.879   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 89218    | 57.971   | ug/l   | 87       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 124678   | 55.380   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 102659   | 220.362  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.973 | 43   | 197992   | 295.349  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.126 | 129  | 97076    | 55.485   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.232 | 107  | 72928    | 55.496   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.867 | 164  | 85949    | 50.765   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.655 | 112  | 261781   | 51.771   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 100121   | 52.667   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.732 | 91   | 465816   | 53.827   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.844 | 106  | 373833   | 108.457  | ug/l   | 96       |
| 69) o-Xylene                  | 12.167 | 106  | 173070   | 54.418   | ug/l   | 94       |
| 70) Styrene                   | 12.179 | 104  | 300399   | 55.091   | ug/l   | 97       |
| 71) Bromoform                 | 12.343 | 173  | 56639    | 54.783   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.467 | 105  | 451020   | 51.427   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.273 | 43   | 101602   | 53.257   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 83949    | 53.595   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 56167m   | 47.492   | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 108113   | 52.032   | ug/l   | 87       |
| 78) n-propylbenzene           | 12.808 | 91   | 551364   | 51.405   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 319611   | 51.604   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.943 | 105  | 385078   | 51.109   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 23137    | 50.310   | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 333221   | 50.859   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 323684   | 51.001   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 379719   | 51.785   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.385 | 105  | 488405   | 50.910   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.496 | 119  | 406241   | 51.321   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.496 | 146  | 210513   | 50.086   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 207984   | 49.117   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 370256   | 49.352   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.090 | 117  | 77837    | 48.470   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 186017   | 50.901   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 13975    | 54.500   | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 107378   | 48.143   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 54688    | 43.692   | ug/l   | 97       |
| 95) Naphthalene               | 15.379 | 128  | 214957   | 47.766   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.567 | 180  | 97499    | 50.124   | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 08/24/2022  
Supervised By :Mahesh Dadoda 08/24/2022

Quant Time: Aug 24 06:21:07 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D082322S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 23 13:12:17 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

