

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012422\  
 Data File : VD071772.D  
 Acq On : 24 Jan 2022 11:15  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/25/2022  
 Supervised By : Mahesh Dadoda 01/25/2022

Quant Time: Jan 25 04:10:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D010722S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 07 15:39:14 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 306711              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 502832              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 458768              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 223019              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 210248              | 53.275  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 106.540% |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 191981              | 57.772  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 115.540% |         |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 726235              | 58.382  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 116.760% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 253556              | 57.846  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 115.700% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 107408              | 46.168  | ug/l   | 97       |
| 3) Chloromethane             | 2.215          | 50   | 138387              | 45.315  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.356          | 62   | 171769              | 45.043  | ug/l   | 91       |
| 5) Bromomethane              | 2.779          | 94   | 115310              | 45.197  | ug/l   | 96       |
| 6) Chloroethane              | 2.932          | 64   | 121404              | 44.673  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.279          | 101  | 266975              | 49.385  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.715          | 74   | 66737               | 46.937  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 168441              | 53.308  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.309          | 142  | 143404              | 47.467  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 52347               | 270.491 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 132356              | 48.271  | ug/l   | 91       |
| 13) Acrolein                 | 3.932          | 56   | 81873               | 212.552 | ug/l   | 97       |
| 14) Allyl chloride           | 4.715          | 41   | 277962              | 51.126  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 177936              | 236.806 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 226056              | 248.100 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.415          | 76   | 296024              | 43.078  | ug/l   | 96       |
| 18) Methyl Acetate           | 4.720          | 43   | 117364              | 44.812  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 350063              | 48.366  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.973          | 84   | 164486              | 48.759  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 150219              | 47.974  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.367          | 45   | 604186              | 51.609  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.309          | 43   | 1402364             | 256.686 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 339867              | 50.860  | ug/l   | 97       |
| 25) 2-Butanone               | 7.209          | 43   | 256035              | 237.835 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 302620              | 53.930  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 188776              | 51.078  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.550          | 49   | 150850              | 46.340  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 142659              | 230.356 | ug/l   | 99       |
| 30) Chloroform               | 7.709          | 83   | 351126              | 51.385  | ug/l   | 96       |
| 31) Cyclohexane              | 7.985          | 56   | 266099              | 48.718  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 310032              | 51.477  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 245067              | 51.699  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 103439              | 47.017  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 260889              | 54.346  | ug/l   | 90       |
| 39) Methylcyclohexane        | 9.355          | 83   | 260499              | 50.877  | ug/l   | 95       |
| 40) Benzene                  | 8.350          | 78   | 675083              | 51.688  | ug/l   | 100      |

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

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/25/2022  
 Supervised By : Mahesh Dadoda 01/25/2022

Quant Time: Jan 25 04:10:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D010722S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 07 15:39:14 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 59157    | 43.757   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 220242   | 49.816   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 203846   | 49.222   | ug/l   | 100      |
| 44) Trichloroethene           | 9.114  | 130  | 174855   | 52.022   | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 186441   | 52.807   | ug/l   | 96       |
| 46) Dibromomethane            | 9.473  | 93   | 89821    | 49.704   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.661  | 83   | 262807   | 52.969   | ug/l # | 97       |
| 48) Methyl methacrylate       | 9.456  | 41   | 106741   | 51.004   | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 18227    | 1006.035 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 539796   | 246.761  | ug/l   | 99       |
| 52) Toluene                   | 10.403 | 92   | 448972   | 54.612   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 233155   | 53.571   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 273155   | 53.229   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 124622   | 52.604   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 149120   | 51.352   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 222699   | 50.869   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 406832   | 253.783  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 394802   | 258.399  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.138 | 129  | 156909   | 52.034   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 112442   | 49.609   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 142338   | 52.819   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 462300   | 52.660   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 180658   | 54.272   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.738 | 91   | 879652   | 54.580   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 663102   | 110.624  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 312968   | 55.163   | ug/l   | 98       |
| 70) Styrene                   | 12.191 | 104  | 539511   | 55.479   | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 86544    | 53.246   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 877889   | 54.776   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.285 | 43   | 191686   | 48.758   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 137518   | 48.422   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 99777m   | 46.301   | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 178911   | 51.680   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 1090894  | 54.122   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 608241   | 53.540   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 722946   | 53.987   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 39731    | 51.400   | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 636321   | 53.990   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 647993   | 56.631   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 716256   | 54.087   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 982829   | 56.079   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 800246   | 55.615   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 378517   | 52.981   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 372677   | 51.131   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 796070   | 55.244   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 157625   | 55.368   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 314892   | 51.428   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 22216    | 48.670   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 189761   | 53.776   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 111595   | 53.945   | ug/l   | 99       |
| 95) Naphthalene               | 15.390 | 128  | 318393   | 50.962   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 162500   | 54.044   | ug/l   | 99       |

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

**Instrument :**  
 MSVOA\_D  
**ClientSampleId :**  
 VSTDCCC050

**Manual Integrations**  
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/25/2022  
 Supervised By :Mahesh Dadoda 01/25/2022

Quant Time: Jan 25 04:10:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D010722S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 07 15:39:14 2022  
 Response via : Initial Calibration

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

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

