

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121623\  
 Data File : VD077928.D  
 Acq On : 16 Dec 2023 10:49  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023  
 Supervised By :Semsettin Yesilyurt 12/18/2023

Quant Time: Dec 18 01:55:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 131471              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 223753              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 208613              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 112978              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 81683               | 52.726  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.460% |         |        |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 86478               | 55.176  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 110.360% |         |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 339202              | 54.036  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 108.080% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 102619              | 54.679  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 109.360% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 65325               | 39.777  | ug/l   | 96       |
| 3) Chloromethane             | 2.152          | 50   | 110570              | 49.394  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.287          | 62   | 153310              | 50.448  | ug/l   | 95       |
| 5) Bromomethane              | 2.693          | 94   | 102435              | 60.071  | ug/l   | 99       |
| 6) Chloroethane              | 2.840          | 64   | 110801              | 53.479  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.181          | 101  | 132602              | 47.377  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.599          | 74   | 39486               | 50.241  | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 3.975          | 101  | 78437               | 48.987  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.163          | 142  | 78224               | 54.967  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.057          | 59   | 20006               | 269.023 | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 3.946          | 96   | 76913               | 48.669  | ug/l   | 92       |
| 13) Acrolein                 | 3.799          | 56   | 41154               | 251.128 | ug/l   | 99       |
| 14) Allyl chloride           | 4.569          | 41   | 95625               | 43.996  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.251          | 53   | 87139               | 258.957 | ug/l   | 97       |
| 16) Acetone                  | 4.022          | 43   | 100629              | 307.858 | ug/l # | 86       |
| 17) Carbon Disulfide         | 4.275          | 76   | 238246              | 44.561  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.563          | 43   | 68230               | 55.923  | ug/l   | 89       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 176264              | 52.571  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.804          | 84   | 96670               | 52.979  | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 89130               | 49.794  | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.216          | 45   | 232570              | 51.204  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.157          | 43   | 551333              | 248.568 | ug/l   | 93       |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 153429              | 49.882  | ug/l   | 97       |
| 25) 2-Butanone               | 7.081          | 43   | 114131              | 269.159 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 129564              | 50.170  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 101597              | 52.749  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.422          | 49   | 59332               | 47.737  | ug/l # | 79       |
| 29) Tetrahydrofuran          | 7.445          | 42   | 64111               | 259.880 | ug/l   | 88       |
| 30) Chloroform               | 7.598          | 83   | 157814              | 51.265  | ug/l   | 100      |
| 31) Cyclohexane              | 7.881          | 56   | 126175              | 45.790  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.798          | 97   | 138153              | 50.908  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 122288              | 48.779  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.163          | 43   | 43291               | 44.286  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.992          | 117  | 121277              | 48.524  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.275          | 83   | 146390              | 49.256  | ug/l   | 90       |
| 40) Benzene                  | 8.251          | 78   | 360790              | 50.705  | ug/l   | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.398  | 41   | 24898    | 50.112   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 94856    | 51.429   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 87787    | 50.519   | ug/l # | 90       |
| 44) Trichloroethene           | 9.028  | 130  | 93338    | 50.337   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 91966    | 53.168   | ug/l   | 94       |
| 46) Dibromomethane            | 9.392  | 93   | 48244    | 52.713   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.587  | 83   | 121236   | 52.262   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.381  | 41   | 50175    | 50.795   | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 9526     | 1048.207 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 228960   | 258.172  | ug/l   | 92       |
| 52) Toluene                   | 10.334 | 92   | 231294   | 52.403   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 118874   | 53.362   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 137647   | 51.106   | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 66892    | 53.433   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 60087    | 54.448   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 116520   | 53.997   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 162659   | 258.459  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.922 | 43   | 177479   | 241.215  | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.075 | 129  | 82262    | 54.578   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 62558    | 53.085   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 75656    | 49.342   | ug/l   | 89       |
| 65) Chlorobenzene             | 11.604 | 112  | 243503   | 49.497   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 90517    | 52.178   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.681 | 91   | 449236   | 51.724   | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.792 | 106  | 348350   | 104.857  | ug/l   | 92       |
| 69) o-Xylene                  | 12.122 | 106  | 159199   | 51.996   | ug/l   | 91       |
| 70) Styrene                   | 12.133 | 104  | 246756   | 54.200   | ug/l   | 93       |
| 71) Bromoform                 | 12.298 | 173  | 48323    | 53.312   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 426946   | 49.861   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.233 | 43   | 76866    | 45.667   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 77037    | 51.598   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 52078m   | 53.075   | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 98110    | 48.712   | ug/l   | 92       |
| 78) n-propylbenzene           | 12.763 | 91   | 523187   | 50.143   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 279020   | 49.899   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 360360   | 50.459   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 24635    | 50.868   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 296584   | 50.736   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 316399   | 52.478   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 366817   | 51.353   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 466880   | 52.387   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 417019   | 52.263   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 211057   | 51.243   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 202894   | 49.332   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.786 | 91   | 393342   | 52.389   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 78801    | 53.700   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.827 | 146  | 178000   | 50.815   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 10765    | 49.770   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 114654   | 47.919   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 61880    | 47.960   | ug/l   | 98       |
| 95) Naphthalene               | 15.333 | 128  | 206571   | 51.962   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.521 | 180  | 98213    | 49.790   | ug/l   | 99       |

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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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