

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051022\  
 Data File : VD072920.D  
 Acq On : 10 May 2022 17:57  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: May 11 05:53:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 309723              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 535566              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 512033              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 248050              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 222663              | 55.383  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 110.760% |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 206497              | 54.900  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 109.800% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 734549              | 54.442  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 108.880% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 287624              | 57.171  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 114.340% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 189566              | 44.292  | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 212368              | 47.712  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 199010              | 49.828  | ug/l   | 96       |
| 5) Bromomethane              | 2.762          | 94   | 130590              | 53.257  | ug/l   | 92       |
| 6) Chloroethane              | 2.920          | 64   | 127411              | 51.185  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 350448              | 50.109  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.709          | 74   | 109077              | 54.401  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 211572              | 50.955  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 209723              | 50.330  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.214          | 59   | 102475              | 294.594 | ug/l   | 95       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 192539              | 51.554  | ug/l   | 93       |
| 13) Acrolein                 | 3.920          | 56   | 53423               | 219.202 | ug/l   | 98       |
| 14) Allyl chloride           | 4.708          | 41   | 341685              | 56.668  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.414          | 53   | 270536              | 283.911 | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 215688              | 288.787 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.408          | 76   | 549315              | 46.778  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.714          | 43   | 124050              | 56.736  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 528717              | 59.054  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.956          | 84   | 270154              | 57.067  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 227764              | 53.176  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.361          | 45   | 783166              | 59.045  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2165245             | 295.510 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 435438              | 54.642  | ug/l   | 99       |
| 25) 2-Butanone               | 7.202          | 43   | 331399              | 282.901 | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 7.202          | 77   | 364676              | 54.131  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.202          | 96   | 270793              | 55.200  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.544          | 49   | 165308              | 55.627  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 216738              | 290.271 | ug/l   | 92       |
| 30) Chloroform               | 7.702          | 83   | 459426              | 54.486  | ug/l   | 97       |
| 31) Cyclohexane              | 7.979          | 56   | 352628              | 50.174  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 382569              | 53.235  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.102          | 75   | 316199              | 51.700  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.285          | 43   | 159569              | 56.755  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 324977              | 51.187  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.349          | 83   | 370143              | 52.176  | ug/l   | 99       |
| 40) Benzene                  | 8.344          | 78   | 945571              | 53.537  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: May 11 05:53:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 95499    | 57.045   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 293045   | 55.059   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 301309   | 58.063   | ug/l # | 96       |
| 44) Trichloroethene           | 9.102  | 130  | 246892   | 52.250   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 255104   | 54.998   | ug/l   | 94       |
| 46) Dibromomethane            | 9.467  | 93   | 138134   | 53.987   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 361382   | 54.903   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.449  | 41   | 153811   | 60.587   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.449  | 88   | 31699    | 1100.183 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 798562   | 296.141  | ug/l   | 96       |
| 52) Toluene                   | 10.396 | 92   | 602958   | 54.727   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 333889   | 55.226   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 386640   | 55.045   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 187606   | 54.238   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 244365   | 60.003   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 332155   | 55.959   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 556570   | 281.874  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.973 | 43   | 528775   | 291.420  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.132 | 129  | 238837   | 54.851   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 181509   | 53.913   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.867 | 164  | 194063   | 51.839   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.661 | 112  | 643558   | 54.341   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 244719   | 54.983   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.732 | 91   | 1155406  | 56.373   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.843 | 106  | 881050   | 111.596  | ug/l   | 99       |
| 69) o-Xylene                  | 12.167 | 106  | 423008   | 57.369   | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 741428   | 58.037   | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 132430   | 54.901   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.467 | 105  | 1115695  | 57.811   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 291406   | 60.633   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 215151   | 55.227   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 122747m  | 44.378   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 254785   | 55.596   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.808 | 91   | 1377741  | 56.643   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 796884   | 56.085   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 936549   | 57.231   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 67916    | 56.466   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 839449   | 56.545   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 772184   | 55.503   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 931431   | 56.944   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.384 | 105  | 1189150  | 56.671   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 983030   | 57.140   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 500217   | 54.183   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 490321   | 53.333   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 945984   | 56.762   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.096 | 117  | 189673   | 53.817   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 439982   | 54.684   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.484 | 75   | 33643    | 54.478   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 267968   | 56.237   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 136816   | 52.575   | ug/l   | 99       |
| 95) Naphthalene               | 15.379 | 128  | 519148   | 59.258   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 235169   | 55.675   | ug/l   | 100      |

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/11/2022  
Supervised By :Mahesh Dadoda 05/11/2022

Quant Time: May 11 05:53:19 2022  
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Quant Title : SW846 8260  
QLast Update : Tue May 03 08:33:49 2022  
Response via : Initial Calibration

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

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

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