

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD042522\  
 Data File : VD072709.D  
 Acq On : 25 Apr 2022 16:12  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/26/2022  
 Supervised By : Mahesh Dadoda 04/26/2022

Quant Time: Apr 26 01:48:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.967          | 168  | 332602              | 50.000  | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 559688              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 520209              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 271936              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 217845              | 54.144  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 108.280% |         |        |          |
| 35) Dibromofluoromethane     | 7.902          | 113  | 232346              | 53.418  | ug/l   | -0.01    |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.840% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 771039              | 50.997  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 102.000% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 314216              | 53.214  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 106.420% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 118519              | 44.900  | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 125823              | 51.535  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.350          | 62   | 137766              | 49.109  | ug/l   | 98       |
| 5) Bromomethane              | 2.762          | 94   | 93862               | 49.890  | ug/l   | 96       |
| 6) Chloroethane              | 2.920          | 64   | 96593               | 53.715  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 310958              | 54.273  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.714          | 74   | 95329               | 55.989  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 202244              | 52.928  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.297          | 142  | 163262              | 46.148  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.208          | 59   | 84280               | 396.657 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.061          | 96   | 162062              | 54.249  | ug/l   | 81       |
| 13) Acrolein                 | 3.920          | 56   | 14474               | 153.507 | ug/l   | 94       |
| 14) Allyl chloride           | 4.708          | 41   | 271917              | 51.794  | ug/l # | 91       |
| 15) Acrylonitrile            | 5.408          | 53   | 247758              | 290.965 | ug/l   | 97       |
| 16) Acetone                  | 4.150          | 43   | 192707              | 256.859 | ug/l # | 89       |
| 17) Carbon Disulfide         | 4.403          | 76   | 295336              | 45.963  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.714          | 43   | 107274              | 50.754  | ug/l # | 90       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 510946              | 58.598  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.961          | 84   | 251251              | 56.254  | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 184083              | 50.478  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.355          | 45   | 679421              | 56.607  | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.297          | 43   | 1827269             | 282.219 | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 6.255          | 63   | 398585              | 55.110  | ug/l   | 98       |
| 25) 2-Butanone               | 7.202          | 43   | 291819              | 281.242 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.202          | 77   | 354294              | 55.151  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.202          | 96   | 249789              | 55.071  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.538          | 49   | 183544              | 59.227  | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 186216              | 297.256 | ug/l   | 89       |
| 30) Chloroform               | 7.702          | 83   | 438576              | 53.906  | ug/l   | 97       |
| 31) Cyclohexane              | 7.979          | 56   | 276311              | 52.521  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 387651              | 56.177  | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 8.102          | 75   | 276850              | 49.812  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.285          | 43   | 134698              | 58.445  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 325165              | 54.265  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.349          | 83   | 311622              | 48.247  | ug/l   | 96       |
| 40) Benzene                  | 8.344          | 78   | 840912              | 55.358  | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/26/2022  
 Supervised By : Mahesh Dadoda 04/26/2022

Quant Time: Apr 26 01:48:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 86989    | 64.101   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 262091   | 56.449   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 265116   | 59.969   | ug/l # | 93       |
| 44) Trichloroethene           | 9.108  | 130  | 231116   | 53.592   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 230723   | 54.601   | ug/l   | 95       |
| 46) Dibromomethane            | 9.467  | 93   | 122936   | 55.452   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.655  | 83   | 347376   | 54.541   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.449  | 41   | 117050   | 54.536   | ug/l # | 79       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 29432    | 1116.038 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 700788   | 295.426  | ug/l   | 92       |
| 52) Toluene                   | 10.396 | 92   | 557916   | 55.286   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 313689   | 56.520   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 361515   | 55.092   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 187831   | 55.885   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 226637   | 54.726   | ug/l # | 82       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 304276   | 54.762   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 523314   | 315.377  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.973 | 43   | 473327   | 293.428  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.132 | 129  | 238662   | 55.049   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 172445   | 57.788   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.867 | 164  | 178169   | 52.420   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.661 | 112  | 617277   | 53.074   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 254611   | 54.756   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.732 | 91   | 1087876  | 53.606   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.843 | 106  | 834955   | 108.448  | ug/l   | 100      |
| 69) o-Xylene                  | 12.167 | 106  | 407294   | 54.829   | ug/l   | 96       |
| 70) Styrene                   | 12.185 | 104  | 712137   | 54.395   | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 133954   | 54.342   | ug/l # | 94       |
| 73) Isopropylbenzene          | 12.467 | 105  | 1131275  | 51.511   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 251234   | 54.521   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 211572   | 50.861   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 177091m  | 59.709   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 254912   | 51.785   | ug/l   | 92       |
| 78) n-propylbenzene           | 12.808 | 91   | 1347490  | 50.860   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 781162   | 50.417   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 942663   | 50.117   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 63718    | 52.716   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 822148   | 50.949   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 842887   | 51.764   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 935693   | 50.873   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 1234184  | 50.319   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 1023031  | 51.029   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 505430   | 49.552   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 508055   | 49.420   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.826 | 91   | 961297   | 50.334   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 202144   | 49.254   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 456249   | 50.714   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 33447    | 54.367   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 286968   | 51.461   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 156324   | 50.047   | ug/l   | 99       |
| 95) Naphthalene               | 15.384 | 128  | 546576   | 50.443   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 252239   | 51.827   | ug/l   | 99       |

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ALS Vial : 10 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/26/2022  
Supervised By :Mahesh Dadoda 04/26/2022

Quant Time: Apr 26 01:48:40 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 02:44:36 2022  
Response via : Initial Calibration

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

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

