

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040422\  
 Data File : VD072514.D  
 Acq On : 04 Apr 2022 12:56  
 Operator : VA/SY  
 Sample : VD0404SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0404SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/05/2022  
 Supervised By : Mahesh Dadoda 04/05/2022

Quant Time: Apr 05 03:18:58 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        | 7.973          | 168  | 328367              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 560789              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 529322              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 279634              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 200271              | 50.418  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 100.840% |         |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 218892              | 50.226  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 100.460% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 751847              | 49.630  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 99.260%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 301886              | 51.025  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 102.060% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 49927               | 19.158  | ug/l   | 89       |
| 3) Chloromethane             | 2.209          | 50   | 44249               | 18.357  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 45110               | 16.923  | ug/l   | 92       |
| 5) Bromomethane              | 2.750          | 94   | 34736               | 18.701  | ug/l   | 93       |
| 6) Chloroethane              | 2.909          | 64   | 31357               | 17.662  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 110865              | 19.600  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.709          | 74   | 31073               | 18.485  | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 75829               | 20.101  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.297          | 142  | 50795               | 17.098  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.215          | 59   | 22519               | 107.351 | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 54401               | 18.445  | ug/l   | 82       |
| 13) Acrolein                 | 3.920          | 56   | 15573               | 167.293 | ug/l   | 97       |
| 14) Allyl chloride           | 4.715          | 41   | 88829               | 17.892  | ug/l # | 88       |
| 15) Acrylonitrile            | 5.415          | 53   | 82375               | 97.988  | ug/l   | 98       |
| 16) Acetone                  | 4.150          | 43   | 82333               | 111.157 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.403          | 76   | 72149               | 14.102  | ug/l   | 96       |
| 18) Methyl Acetate           | 4.720          | 43   | 45766               | 21.932  | ug/l # | 86       |
| 19) Methyl tert-butyl Ether  | 5.467          | 73   | 174829              | 20.309  | ug/l   | 94       |
| 20) Methylene Chloride       | 4.962          | 84   | 87835               | 19.919  | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 62883               | 17.959  | ug/l   | 85       |
| 22) Diisopropyl ether        | 6.356          | 45   | 241565              | 20.386  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.309          | 43   | 534916              | 88.107  | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 150536              | 21.082  | ug/l   | 98       |
| 25) 2-Butanone               | 7.209          | 43   | 103775              | 101.304 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 133602              | 21.065  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 90304               | 20.166  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.550          | 49   | 67991               | 22.223  | ug/l # | 74       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 56306               | 91.040  | ug/l # | 86       |
| 30) Chloroform               | 7.709          | 83   | 174286              | 21.698  | ug/l   | 100      |
| 31) Cyclohexane              | 7.985          | 56   | 85583               | 16.477  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 143040              | 20.996  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 92754               | 17.404  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.285          | 43   | 44931               | 19.457  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 120724              | 20.107  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.350          | 83   | 91024               | 16.103  | ug/l   | 99       |
| 40) Benzene                  | 8.344          | 78   | 297111              | 19.521  | ug/l   | 99       |

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 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         | 7.526  | 41   | 23010m   | 18.143  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 95298    | 20.485  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 84766    | 19.136  | ug/l # | 89       |
| 44) Trichloroethene           | 9.108  | 130  | 84252    | 19.498  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 87009    | 20.550  | ug/l   | 99       |
| 46) Dibromomethane            | 9.467  | 93   | 45809    | 20.622  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.655  | 83   | 136180   | 21.339  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.444  | 41   | 41039    | 19.083  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.450  | 88   | 10244    | 387.682 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 232524   | 97.831  | ug/l   | 91       |
| 52) Toluene                   | 10.397 | 92   | 209235   | 20.693  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 115092   | 20.696  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 131363   | 19.980  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 72210    | 21.443  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 72841    | 18.363  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 112094   | 20.134  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 190630   | 114.658 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.979 | 43   | 168764   | 104.416 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.132 | 129  | 95411    | 21.964  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 59311    | 19.837  | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.867 | 164  | 67036    | 19.384  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.661 | 112  | 243746   | 20.597  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 100437   | 21.228  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 404179   | 19.573  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.844 | 106  | 320367   | 40.894  | ug/l   | 97       |
| 69) o-Xylene                  | 12.173 | 106  | 154832   | 20.484  | ug/l   | 96       |
| 70) Styrene                   | 12.185 | 104  | 276186   | 20.733  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 54267    | 21.636  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 434584   | 19.243  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 85121    | 17.964  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 84352    | 19.720  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 63131m   | 20.700  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 104484   | 20.641  | ug/l   | 91       |
| 78) n-propylbenzene           | 12.808 | 91   | 540171   | 19.827  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 318744   | 20.006  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 385888   | 19.951  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 23687    | 19.058  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 332769   | 20.054  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 330299   | 19.726  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 387493   | 20.488  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 511861   | 20.295  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 424674   | 20.600  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 222837   | 21.245  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 218643   | 20.682  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 397482   | 20.240  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 88854    | 21.054  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 195016   | 21.080  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 12868    | 20.341  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 121131   | 21.124  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 69592    | 21.666  | ug/l   | 97       |
| 95) Naphthalene               | 15.385 | 128  | 203228   | 18.240  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 108673   | 21.714  | ug/l   | 98       |

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QLast Update : Wed Mar 30 02:44:36 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

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