

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071222\  
 Data File : VD073838.D  
 Acq On : 12 Jul 2022 14:58  
 Operator : VA/SY  
 Sample : VD0712SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0712SBS01

Quant Time: Jul 13 04:31:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071122S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 12 07:04:44 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/13/2022  
 Supervised By : Mahesh Dadoda 07/13/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 97183      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 186499     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 173429     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 79580      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 61153      | 46.979   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 93.960%  |        |          |
| 35) Dibromofluoromethane     | 7.902          | 113  | 63128      | 51.167   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 102.340% |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 187742     | 43.640   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 125 |      | Recovery = | 87.280%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 94425      | 51.801   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 146 |      | Recovery = | 103.600% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 13682      | 24.823   | ug/l   | 95       |
| 3) Chloromethane             | 2.208          | 50   | 17564      | 27.287   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.344          | 62   | 22292      | 26.319   | ug/l   | 99       |
| 5) Bromomethane              | 2.738          | 94   | 16631      | 26.770   | ug/l   | 95       |
| 6) Chloroethane              | 2.903          | 64   | 17444      | 24.844   | ug/l # | 89       |
| 7) Trichlorofluoromethane    | 3.256          | 101  | 31206      | 22.590   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.714          | 74   | 9202       | 21.140   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.085          | 101  | 19123      | 22.440   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.285          | 142  | 11290      | 20.417   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.179          | 59   | 27075      | 94.197   | ug/l # | 100      |
| 12) 1,1-Dichloroethene       | 4.055          | 96   | 15339      | 23.475   | ug/l   | 93       |
| 13) Acrolein                 | 3.920          | 56   | 3718       | 96.300   | ug/l   | 97       |
| 14) Allyl chloride           | 4.708          | 41   | 26652      | 21.155   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.408          | 53   | 25261      | 101.214  | ug/l   | 99       |
| 16) Acetone                  | 4.150          | 43   | 23328      | 104.605  | ug/l # | 87       |
| 17) Carbon Disulfide         | 4.402          | 76   | 23736      | 25.893   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.714          | 43   | 14494      | 23.761   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 52940      | 21.007   | ug/l   | 91       |
| 20) Methylene Chloride       | 4.955          | 84   | 29710      | 26.919   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.461          | 96   | 16700      | 21.716   | ug/l # | 93       |
| 22) Diisopropyl ether        | 6.361          | 45   | 70946      | 20.629   | ug/l # | 95       |
| 23) Vinyl Acetate            | 6.297          | 43   | 183464m    | 103.821  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 41187      | 21.921   | ug/l   | 96       |
| 25) 2-Butanone               | 7.208          | 43   | 34679      | 103.367  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.202          | 77   | 37714      | 21.084   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.202          | 96   | 24056      | 21.793   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.538          | 49   | 15168      | 19.794   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 19921      | 99.692   | ug/l   | 96       |
| 30) Chloroform               | 7.708          | 83   | 46215      | 21.883   | ug/l   | 97       |
| 31) Cyclohexane              | 7.979          | 56   | 28897      | 24.476   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.896          | 97   | 38277      | 21.677   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.102          | 75   | 27840      | 22.302   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 13796      | 18.056   | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 8.085          | 117  | 32481      | 22.783   | ug/l # | 96       |
| 39) Methylcyclohexane        | 9.349          | 83   | 28080      | 21.732   | ug/l   | 98       |
| 40) Benzene                  | 8.343          | 78   | 82208      | 22.120   | ug/l   | 98       |

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 Operator : VA/SY  
 Sample : VD0712SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0712SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/13/2022  
 Supervised By : Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 04:31:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071122S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 12 07:04:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.508  | 41   | 8313     | 16.607  | ug/l # | 73       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 29724    | 22.457  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 31424    | 20.909  | ug/l # | 63       |
| 44) Trichloroethene           | 9.096  | 130  | 21370    | 22.037  | ug/l   | 86       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 24155    | 21.965  | ug/l   | 95       |
| 46) Dibromomethane            | 9.473  | 93   | 13004    | 21.730  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.655  | 83   | 36702    | 21.684  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.449  | 41   | 13076    | 19.155  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.449  | 88   | 3462     | 452.560 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 82695    | 103.257 | ug/l   | 96       |
| 52) Toluene                   | 10.396 | 92   | 55559    | 22.263  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 32551    | 20.928  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 37316    | 21.701  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.790 | 97   | 18887    | 20.974  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 22169    | 20.348  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.937 | 76   | 32586    | 21.297  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 39942    | 92.035  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.973 | 43   | 53915    | 98.885  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.126 | 129  | 22622    | 20.253  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.237 | 107  | 17161    | 21.215  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.867 | 164  | 15877    | 21.260  | ug/l   | 84       |
| 65) Chlorobenzene             | 11.661 | 112  | 59435    | 20.729  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 24195    | 21.253  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.737 | 91   | 109737   | 20.514  | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.843 | 106  | 82601    | 42.104  | ug/l   | 100      |
| 69) o-Xylene                  | 12.167 | 106  | 38514    | 19.801  | ug/l   | 94       |
| 70) Styrene                   | 12.184 | 104  | 69114    | 20.522  | ug/l   | 99       |
| 71) Bromoform                 | 12.343 | 173  | 11735    | 19.873  | ug/l # | 94       |
| 73) Isopropylbenzene          | 12.467 | 105  | 112640   | 20.712  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 29662    | 19.877  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 23156    | 20.476  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 15487m   | 17.989  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 22892    | 20.086  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.808 | 91   | 140470   | 20.449  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 80912    | 20.480  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 94840    | 20.918  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 6717     | 20.505  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 85124    | 20.602  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 81454    | 20.387  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 93416    | 20.538  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 129000   | 20.766  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 101414   | 20.274  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 48865    | 19.947  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 48604    | 20.261  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 102623   | 20.445  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 20769    | 21.448  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 44070    | 20.427  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.484 | 75   | 3370     | 17.774  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 24445    | 19.884  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 11925    | 20.385  | ug/l   | 99       |
| 95) Naphthalene               | 15.378 | 128  | 50463    | 18.802  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 21253    | 19.885  | ug/l   | 98       |

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Operator : VA/SY  
Sample : VD0712SBS01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0712SBS01

Manual Integrations  
APPROVED

Reviewed By : John Carlone 07/13/2022  
Supervised By : Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 04:31:15 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071122S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 12 07:04:44 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

