

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
 Data File : VD073191.D  
 Acq On : 20 May 2022 18:54  
 Operator : VA/SY  
 Sample : VD0520SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0520SBS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/24/2022  
 Supervised By :Mahesh Dadoda 05/24/2022

Quant Time: May 21 00:16:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 322774              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 555291              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 532696              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 258973              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 184935              | 51.844  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.680% |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 189742              | 51.783  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 103.560% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 698741              | 51.732  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 103.460% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 250037              | 52.748  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 105.500% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 64081               | 19.868  | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 71883               | 19.710  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.344          | 62   | 62317               | 18.686  | ug/l   | 95       |
| 5) Bromomethane              | 2.750          | 94   | 47264               | 19.658  | ug/l   | 99       |
| 6) Chloroethane              | 2.909          | 64   | 40565               | 19.787  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 115914              | 19.657  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.703          | 74   | 31362               | 19.355  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 68183               | 19.379  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.291          | 142  | 68414               | 18.023  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 37292               | 67.383  | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 60569               | 18.672  | ug/l   | 89       |
| 13) Acrolein                 | 3.920          | 56   | 29309               | 125.244 | ug/l   | 99       |
| 14) Allyl chloride           | 4.709          | 41   | 95396               | 18.219  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.415          | 53   | 77130               | 104.097 | ug/l   | 99       |
| 16) Acetone                  | 4.162          | 43   | 57790               | 93.533  | ug/l # | 88       |
| 17) Carbon Disulfide         | 4.403          | 76   | 196724              | 18.294  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.715          | 43   | 38455               | 22.382  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 145927              | 19.747  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.956          | 84   | 109465              | 26.016  | ug/l   | 86       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 77148               | 19.670  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.356          | 45   | 221756              | 20.203  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.303          | 43   | 578648              | 98.834  | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 138347              | 19.637  | ug/l   | 99       |
| 25) 2-Butanone               | 7.209          | 43   | 88783               | 98.216  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.197          | 77   | 109676              | 18.254  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 84875               | 19.558  | ug/l   | 89       |
| 28) Bromochloromethane       | 7.538          | 49   | 48127               | 19.828  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.556          | 42   | 59577               | 101.926 | ug/l   | 92       |
| 30) Chloroform               | 7.703          | 83   | 149481              | 20.323  | ug/l   | 98       |
| 31) Cyclohexane              | 7.985          | 56   | 112545              | 18.055  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 123446              | 19.189  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 104682              | 18.996  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.285          | 43   | 45916               | 21.094  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 106663              | 19.094  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.350          | 83   | 105787              | 17.225  | ug/l   | 95       |
| 40) Benzene                  | 8.344          | 78   | 313140              | 19.716  | ug/l   | 100      |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0520SBS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/24/2022  
 Supervised By :Mahesh Dadoda 05/24/2022

Quant Time: May 21 00:16:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 21740    | 17.142  | ug/l # | 84       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 89685    | 20.294  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 80613    | 20.036  | ug/l   | 91       |
| 44) Trichloroethene           | 9.103  | 130  | 82422    | 19.461  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 77767    | 19.443  | ug/l   | 94       |
| 46) Dibromomethane            | 9.467  | 93   | 43864    | 19.968  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 112732   | 20.056  | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.450  | 41   | 41779    | 20.639  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 9270     | 408.623 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 211283   | 101.107 | ug/l   | 95       |
| 52) Toluene                   | 10.397 | 92   | 200284   | 19.956  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 101329   | 19.955  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 120461   | 19.823  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 60671    | 20.424  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 65179    | 19.734  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 101310   | 20.325  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 120979   | 92.050  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.973 | 43   | 139189   | 101.029 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.132 | 129  | 77828    | 21.011  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 58032    | 20.444  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.867 | 164  | 65869    | 18.879  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 215007   | 19.675  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 80853    | 19.949  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.738 | 91   | 366988   | 19.130  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.844 | 106  | 288434   | 38.699  | ug/l   | 99       |
| 69) o-Xylene                  | 12.167 | 106  | 133167   | 19.449  | ug/l   | 95       |
| 70) Styrene                   | 12.185 | 104  | 235744   | 20.012  | ug/l   | 96       |
| 71) Bromoform                 | 12.349 | 173  | 43932    | 21.061  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.467 | 105  | 350752   | 18.999  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 77040    | 19.128  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 70360    | 20.664  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 48396m   | 19.046  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 85183    | 19.600  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.808 | 91   | 445261   | 19.211  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 259189   | 19.368  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 307616   | 19.670  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 21792    | 20.589  | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 279862   | 19.952  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.208 | 119  | 240750   | 18.265  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 303767   | 19.661  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 383383   | 19.049  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 315006   | 19.201  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 174639   | 19.936  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 174187   | 19.698  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.826 | 91   | 296230   | 18.951  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 65552    | 19.311  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 154285   | 20.356  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 9657     | 18.520  | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 83773    | 19.468  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 46586    | 19.212  | ug/l   | 97       |
| 95) Naphthalene               | 15.379 | 128  | 144777   | 19.415  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 74075    | 19.418  | ug/l   | 99       |

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Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0520SBSD01

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 05/24/2022  
Supervised By :Mahesh Dadoda 05/24/2022

Quant Time: May 21 00:16:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 19 15:13:42 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

