

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061223\  
 Data File : VD076388.D  
 Acq On : 12 Jun 2023 12:18  
 Operator : KP/SY  
 Sample : VSTDICC005  
 Misc : 5.00G/5.00ml/MSVOA\_D/soil  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/13/2023  
 Supervised By :Mahesh Dadoda 06/13/2023

Quant Time: Jun 13 01:45:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D061223S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 13 01:45:10 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 351014     | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 603223     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 527304     | 50.000  | ug/l  | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 249981     | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 22106      | 5.452   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 10.900% | #     |          |
| 35) Dibromofluoromethane     | 7.799          | 113  | 19919      | 5.109   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 10.220% | #     |          |
| 50) Toluene-d8               | 10.269         | 98   | 77480      | 5.244   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 10.480% | #     |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 27637      | 5.453   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 10.900% | #     |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 16202      | 5.168   | ug/l  | 95       |
| 3) Chloromethane             | 2.146          | 50   | 33519      | 5.646   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.281          | 62   | 29863      | 5.257   | ug/l  | 96       |
| 5) Bromomethane              | 2.687          | 94   | 17617      | 5.919   | ug/l  | 99       |
| 6) Chloroethane              | 2.828          | 64   | 18239      | 5.332   | ug/l  | 90       |
| 7) Trichlorofluoromethane    | 3.169          | 101  | 29743      | 5.203   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.593          | 74   | 11308      | 5.506   | ug/l  | 58       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 17169      | 4.996   | ug/l  | 93       |
| 10) Methyl Iodide            | 4.152          | 142  | 21094      | 4.773   | ug/l  | # 87     |
| 11) Tert butyl alcohol       | 5.063          | 59   | 9113       | 26.888  | ug/l  | # 82     |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 19200      | 5.478   | ug/l  | 87       |
| 13) Acrolein                 | 3.799          | 56   | 10270      | 26.417  | ug/l  | # 79     |
| 14) Allyl chloride           | 4.558          | 41   | 37018      | 5.400   | ug/l  | # 85     |
| 15) Acrylonitrile            | 5.263          | 53   | 26717      | 25.570  | ug/l  | 96       |
| 16) Acetone                  | 4.022          | 43   | 24089      | 27.028  | ug/l  | # 76     |
| 17) Carbon Disulfide         | 4.263          | 76   | 55664      | 5.527   | ug/l  | 98       |
| 18) Methyl Acetate           | 4.563          | 43   | 21821      | 5.370   | ug/l  | # 81     |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 49819      | 5.122   | ug/l  | # 90     |
| 20) Methylene Chloride       | 4.805          | 84   | 44513      | 4.033   | ug/l  | # 75     |
| 21) trans-1,2-Dichloroethene | 5.305          | 96   | 20976      | 5.150   | ug/l  | # 70     |
| 22) Diisopropyl ether        | 6.210          | 45   | 71899      | 5.152   | ug/l  | # 90     |
| 23) Vinyl Acetate            | 6.152          | 43   | 138157m    | 23.052  | ug/l  |          |
| 24) 1,1-Dichloroethane       | 6.104          | 63   | 40107      | 5.171   | ug/l  | 96       |
| 25) 2-Butanone               | 7.081          | 43   | 37552      | 26.939  | ug/l  | # 74     |
| 26) 2,2-Dichloropropane      | 7.081          | 77   | 39195      | 5.612   | ug/l  | 94       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 25734      | 5.307   | ug/l  | 82       |
| 28) Bromochloromethane       | 7.422          | 49   | 14627      | 2.858   | ug/l  | # 70     |
| 29) Tetrahydrofuran          | 7.446          | 42   | 22767      | 25.600  | ug/l  | # 76     |
| 30) Chloroform               | 7.599          | 83   | 40417      | 5.228   | ug/l  | 92       |
| 31) Cyclohexane              | 7.875          | 56   | 37896      | 5.842   | ug/l  | # 83     |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 34140      | 5.171   | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 30488      | 5.358   | ug/l  | 94       |
| 37) Ethyl Acetate            | 7.175          | 43   | 14232      | 4.755   | ug/l  | # 75     |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 25905      | 4.903   | ug/l  | 96       |
| 39) Methylcyclohexane        | 9.269          | 83   | 33320      | 5.085   | ug/l  | 94       |
| 40) Benzene                  | 8.251          | 78   | 84002      | 5.078   | ug/l  | 98       |

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 Sample : VSTDICC005  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/13/2023  
 Supervised By :Mahesh Dadoda 06/13/2023

Quant Time: Jun 13 01:45:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D061223S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 13 01:45:10 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 10181    | 5.317  | ug/l # | 78       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 26211    | 5.321  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 32553    | 5.187  | ug/l # | 82       |
| 44) Trichloroethene           | 9.028  | 130  | 22350    | 4.984  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 22697    | 5.162  | ug/l   | 96       |
| 46) Dibromomethane            | 9.393  | 93   | 13099    | 5.398  | ug/l   | 88       |
| 47) Bromodichloromethane      | 9.581  | 83   | 31117    | 5.177  | ug/l   | 90       |
| 48) Methyl methacrylate       | 9.381  | 41   | 15273    | 5.078  | ug/l # | 63       |
| 49) 1,4-Dioxane               | 9.393  | 88   | 2439     | 84.717 | ug/l # | 46       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 76263    | 24.468 | ug/l # | 83       |
| 52) Toluene                   | 10.334 | 92   | 52954    | 5.063  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 30366    | 4.939  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 35877    | 5.074  | ug/l # | 64       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 16785    | 5.179  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 22103    | 4.911  | ug/l # | 68       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 27969    | 4.961  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 48694    | 26.559 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.922 | 43   | 54555    | 24.970 | ug/l   | 80       |
| 60) Dibromochloromethane      | 11.069 | 129  | 19948    | 4.974  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 16145    | 5.134  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.810 | 164  | 18601    | 5.138  | ug/l # | 89       |
| 65) Chlorobenzene             | 11.604 | 112  | 55880    | 5.113  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 21505    | 5.262  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.687 | 91   | 103218   | 5.127  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.798 | 106  | 77187    | 10.134 | ug/l   | 85       |
| 69) o-Xylene                  | 12.122 | 106  | 37533    | 5.130  | ug/l   | 87       |
| 70) Styrene                   | 12.134 | 104  | 62678    | 5.021  | ug/l # | 93       |
| 71) Bromoform                 | 12.298 | 173  | 11879    | 4.983  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.422 | 105  | 96526    | 5.106  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.234 | 43   | 28494    | 4.942  | ug/l # | 85       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 19304    | 5.171  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 11035m   | 4.571  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 23194    | 5.200  | ug/l   | 82       |
| 78) n-propylbenzene           | 12.763 | 91   | 118010   | 5.121  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 66824    | 5.125  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 82804    | 5.248  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 6901     | 5.287  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 71190    | 5.213  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 68955    | 5.092  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 78955    | 5.064  | ug/l   | 93       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 100436   | 5.039  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 84732    | 5.049  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 43797    | 5.074  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 44770    | 5.248  | ug/l   | 92       |
| 89) n-Butylbenzene            | 13.786 | 91   | 80657    | 5.002  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 15181    | 4.902  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.833 | 146  | 39358    | 5.184  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 3263     | 5.321  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 26562    | 5.228  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 12948    | 5.065  | ug/l   | 99       |
| 95) Naphthalene               | 15.333 | 128  | 51823    | 5.079  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 22318    | 5.086  | ug/l   | 97       |

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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 06/13/2023  
Supervised By :Mahesh Dadoda 06/13/2023

Quant Time: Jun 13 01:45:49 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D061223S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 13 01:45:10 2023  
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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