

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012224\  
 Data File : VD078197.D  
 Acq On : 22 Jan 2024 17:45  
 Operator : RP/MD  
 Sample : VSTDIC005  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 23 05:29:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 23 05:12:01 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/23/2024  
 Supervised By :Semsettin Yesilyurt 01/23/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 128772     | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 242640     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.586         | 117  | 220185     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.521         | 152  | 96889      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.233          | 65   | 7295       | 4.962   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 9.920%# |        |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 7956       | 4.982   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 9.960%# |        |          |
| 50) Toluene-d8               | 10.275         | 98   | 30141      | 4.767   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 9.540%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.574         | 95   | 8904       | 4.856   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 9.720%# |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.940          | 85   | 9654       | 2.914   | ug/l   | 89       |
| 3) Chloromethane             | 2.157          | 50   | 14833      | 2.838   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.293          | 62   | 16854      | 5.519   | ug/l   | 98       |
| 5) Bromomethane              | 2.699          | 94   | 12987      | 5.828   | ug/l   | 94       |
| 6) Chloroethane              | 2.846          | 64   | 12040      | 5.645   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.193          | 101  | 16091      | 5.793   | ug/l   | 86       |
| 8) Diethyl Ether             | 3.604          | 74   | 4146       | 5.385   | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 3.975          | 101  | 8561       | 5.322   | ug/l # | 93       |
| 10) Methyl Iodide            | 4.175          | 142  | 7096       | 4.400   | ug/l # | 85       |
| 11) Tert butyl alcohol       | 5.063          | 59   | 1880       | 25.977  | ug/l # | 73       |
| 12) 1,1-Dichloroethene       | 3.951          | 96   | 8748       | 5.490   | ug/l # | 82       |
| 13) Acrolein                 | 3.804          | 56   | 3912       | 23.547  | ug/l   | 90       |
| 14) Allyl chloride           | 4.575          | 41   | 12081      | 5.747   | ug/l # | 89       |
| 15) Acrylonitrile            | 5.257          | 53   | 9466       | 27.397  | ug/l # | 88       |
| 16) Acetone                  | 4.022          | 43   | 14540      | 13.418  | ug/l # | 84       |
| 17) Carbon Disulfide         | 4.281          | 76   | 28559      | 5.527   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.569          | 43   | 6956       | 5.500   | ug/l # | 84       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 17838      | 5.368   | ug/l   | 93       |
| 20) Methylene Chloride       | 4.810          | 84   | 18536      | 6.566   | ug/l # | 82       |
| 21) trans-1,2-Dichloroethene | 5.322          | 96   | 9829       | 5.338   | ug/l # | 92       |
| 22) Diisopropyl ether        | 6.228          | 45   | 22473      | 5.052   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.157          | 43   | 56290m     | 25.686  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.122          | 63   | 17468      | 5.683   | ug/l   | 96       |
| 25) 2-Butanone               | 7.081          | 43   | 15751      | 24.742  | ug/l # | 79       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 13722      | 5.330   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 10168      | 5.140   | ug/l   | 79       |
| 28) Bromochloromethane       | 7.428          | 49   | 6163       | 5.141   | ug/l # | 71       |
| 29) Tetrahydrofuran          | 7.451          | 42   | 5882       | 24.253  | ug/l   | 93       |
| 30) Chloroform               | 7.604          | 83   | 17260      | 5.522   | ug/l   | 91       |
| 31) Cyclohexane              | 7.881          | 56   | 16633      | 6.119   | ug/l # | 92       |
| 32) 1,1,1-Trichloroethane    | 7.798          | 97   | 14226      | 5.269   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 13669      | 5.205   | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.175          | 43   | 5629       | 5.758   | ug/l # | 68       |
| 38) Carbon Tetrachloride     | 7.998          | 117  | 13026      | 5.022   | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.281          | 83   | 15479      | 4.984   | ug/l   | 91       |
| 40) Benzene                  | 8.257          | 78   | 37823      | 5.075   | ug/l # | 88       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012224\  
 Data File : VD078197.D  
 Acq On : 22 Jan 2024 17:45  
 Operator : RP/MD  
 Sample : VSTDIC005  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 23 05:29:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 23 05:12:01 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/23/2024  
 Supervised By :Semsettin Yesilyurt 01/23/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.392  | 41   | 2517     | 4.785   | ug/l # | 32       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 10103    | 5.211   | ug/l   | 90       |
| 43) Isopropyl Acetate         | 8.369  | 43   | 8959     | 5.002   | ug/l # | 76       |
| 44) Trichloroethene           | 9.039  | 130  | 9857     | 5.170   | ug/l   | 84       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 9164     | 4.956   | ug/l   | 90       |
| 46) Dibromomethane            | 9.404  | 93   | 4999     | 4.923   | ug/l # | 86       |
| 47) Bromodichloromethane      | 9.592  | 83   | 13668    | 5.358   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.386  | 41   | 5243     | 5.056   | ug/l # | 73       |
| 49) 1,4-Dioxane               | 9.380  | 88   | 1021     | 103.906 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.163 | 43   | 23419    | 24.883  | ug/l   | 90       |
| 52) Toluene                   | 10.339 | 92   | 23562    | 4.988   | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 10.563 | 75   | 11303    | 4.803   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 13063    | 4.630   | ug/l # | 84       |
| 55) 1,1,2-Trichloroethane     | 10.727 | 97   | 7313     | 5.382   | ug/l # | 85       |
| 56) Ethyl methacrylate        | 10.604 | 69   | 4913     | 4.417   | ug/l # | 63       |
| 57) 1,3-Dichloropropane       | 10.880 | 76   | 11075    | 4.766   | ug/l   | 92       |
| 58) 2-Chloroethyl Vinyl ether | 9.875  | 63   | 14355    | 21.535  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.922 | 43   | 19843    | 25.945  | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.075 | 129  | 7966     | 4.972   | ug/l   | 92       |
| 61) 1,2-Dibromoethane         | 11.180 | 107  | 6068     | 4.844   | ug/l   | 90       |
| 64) Tetrachloroethene         | 10.816 | 164  | 7402     | 5.141   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.610 | 112  | 24621    | 5.062   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.680 | 131  | 8420     | 4.844   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.686 | 91   | 42037    | 4.749   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.798 | 106  | 32539    | 9.625   | ug/l   | 95       |
| 69) o-Xylene                  | 12.127 | 106  | 13949    | 4.547   | ug/l   | 91       |
| 70) Styrene                   | 12.139 | 104  | 20812    | 4.527   | ug/l   | 94       |
| 71) Bromoform                 | 12.298 | 173  | 4582     | 5.323   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 37573    | 4.932   | ug/l   | 95       |
| 74) N-amyl acetate            | 12.233 | 43   | 7495     | 5.142   | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.674 | 83   | 7809     | 5.509   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 4957m    | 5.536   | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 8400     | 5.029   | ug/l   | 83       |
| 78) n-propylbenzene           | 12.763 | 91   | 46789    | 4.952   | ug/l   | 93       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 26151    | 5.186   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 30676    | 4.856   | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.480 | 75   | 2172     | 5.035   | ug/l # | 80       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 27867    | 5.243   | ug/l   | 90       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 25083    | 4.750   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 29896    | 4.680   | ug/l   | 94       |
| 85) sec-Butylbenzene          | 13.351 | 105  | 40174    | 5.024   | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 32577    | 4.682   | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 17341    | 5.014   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 18000    | 5.269   | ug/l   | 90       |
| 89) n-Butylbenzene            | 13.792 | 91   | 34259    | 5.058   | ug/l   | 95       |
| 90) Hexachloroethane          | 14.057 | 117  | 6693     | 4.904   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.833 | 146  | 14195    | 4.881   | ug/l   | 91       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 1159     | 5.721   | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.104 | 180  | 9392     | 5.225   | ug/l   | 89       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 4097     | 4.717   | ug/l   | 92       |
| 95) Naphthalene               | 15.333 | 128  | 15793    | 4.699   | ug/l # | 93       |
| 96) 1,2,3-Trichlorobenzene    | 15.521 | 180  | 7683     | 5.094   | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012224\  
Data File : VD078197.D  
Acq On : 22 Jan 2024 17:45  
Operator : RP/MD  
Sample : VSTDICC005  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 01/23/2024  
Supervised By :Semsettin Yesilyurt 01/23/2024

Quant Time: Jan 23 05:29:49 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012224S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 23 05:12:01 2024  
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

