

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081224\  
 Data File : VD079703.D  
 Acq On : 12 Aug 2024 10:53  
 Operator : RP/MD  
 Sample : VSTDICC005  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/13/2024  
 Supervised By :Mahesh Dadoda 08/13/2024

Quant Time: Aug 12 14:27:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081224S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 12 14:24:32 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 177200     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 340072     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 307726     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 145774     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 10474      | 5.138    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 10.280%# |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 10603      | 5.058    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 10.120%# |        |          |
| 50) Toluene-d8               | 10.263         | 98   | 40777      | 4.654    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 9.300%#  |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 10973      | 4.473    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 8.940%#  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 11223      | 3.165    | ug/l   | 88       |
| 3) Chloromethane             | 2.146          | 50   | 20047      | 5.858    | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.281          | 62   | 23300      | 5.759    | ug/l   | 97       |
| 5) Bromomethane              | 2.693          | 94   | 16449      | 5.973    | ug/l   | 98       |
| 6) Chloroethane              | 2.840          | 64   | 15375      | 5.567    | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 20265      | 5.601    | ug/l   | 93       |
| 8) Diethyl Ether             | 3.593          | 74   | 5832       | 5.155    | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 3.964          | 101  | 12343      | 5.795    | ug/l   | 94       |
| 10) Methyl Iodide            | 4.164          | 142  | 10340      | 4.337    | ug/l # | 89       |
| 11) Tert butyl alcohol       | 5.064          | 59   | 3938m      | 28.171   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 11440      | 5.136    | ug/l   | 90       |
| 13) Acrolein                 | 3.793          | 56   | 5993       | 25.273   | ug/l   | 99       |
| 14) Allyl chloride           | 4.558          | 41   | 16328      | 4.888    | ug/l # | 86       |
| 15) Acrylonitrile            | 5.252          | 53   | 13183      | 25.310   | ug/l   | 94       |
| 16) Acetone                  | 4.017          | 43   | 10140m     | 36.276   | ug/l   |          |
| 17) Carbon Disulfide         | 4.269          | 76   | 42765      | 5.416    | ug/l   | 99       |
| 18) Methyl Acetate           | 4.564          | 43   | 7448       | 5.359    | ug/l # | 87       |
| 19) Methyl tert-butyl Ether  | 5.328          | 73   | 22429      | 4.904    | ug/l   | 97       |
| 20) Methylene Chloride       | 4.793          | 84   | 29215      | 5.252    | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 12170      | 4.977    | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.211          | 45   | 31305      | 4.547    | ug/l # | 81       |
| 23) Vinyl Acetate            | 6.152          | 43   | 111839     | 22.164   | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 23843      | 5.239    | ug/l   | 100      |
| 25) 2-Butanone               | 7.087          | 43   | 15809      | 25.205   | ug/l # | 88       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 20424      | 5.683    | ug/l   | 91       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 14495      | 5.110    | ug/l   | 86       |
| 28) Bromochloromethane       | 7.428          | 49   | 9826       | 5.075    | ug/l # | 61       |
| 29) Tetrahydrofuran          | 7.452          | 42   | 9077       | 23.806   | ug/l # | 78       |
| 30) Chloroform               | 7.599          | 83   | 23701      | 5.363    | ug/l   | 99       |
| 31) Cyclohexane              | 7.875          | 56   | 20980      | 5.630    | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 19648      | 5.374    | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 15575      | 4.793    | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.169          | 43   | 7909       | 5.378    | ug/l # | 80       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 16482      | 4.997    | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.275          | 83   | 18207      | 4.740    | ug/l # | 84       |
| 40) Benzene                  | 8.246          | 78   | 51777      | 4.899    | ug/l   | 95       |

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 Operator : RP/MD  
 Sample : VSTDICC005  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/13/2024  
 Supervised By :Mahesh Dadoda 08/13/2024

Quant Time: Aug 12 14:27:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081224S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 12 14:24:32 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 4083m    | 5.476  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 12668    | 5.185  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.369  | 43   | 12456    | 4.856  | ug/l # | 74       |
| 44) Trichloroethene           | 9.028  | 130  | 11541    | 4.972  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.310  | 63   | 13296    | 5.111  | ug/l   | 98       |
| 46) Dibromomethane            | 9.393  | 93   | 6396     | 4.856  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.581  | 83   | 17046    | 5.134  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.375  | 41   | 4892     | 4.147  | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 1104     | 83.285 | ug/l # | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 30140    | 22.841 | ug/l   | 91       |
| 52) Toluene                   | 10.334 | 92   | 29511    | 4.656  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.552 | 75   | 14404    | 4.641  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.010 | 75   | 18364    | 4.821  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 9186     | 5.232  | ug/l # | 87       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 8903     | 5.400  | ug/l # | 82       |
| 57) 1,3-Dichloropropane       | 10.875 | 76   | 13926    | 4.601  | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 19988    | 20.876 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.922 | 43   | 20198    | 29.747 | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.069 | 129  | 10789    | 4.988  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 7393     | 4.742  | ug/l   | 82       |
| 64) Tetrachloroethene         | 10.810 | 164  | 9782     | 5.202  | ug/l # | 86       |
| 65) Chlorobenzene             | 11.604 | 112  | 33203    | 4.914  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 11201    | 5.084  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.681 | 91   | 54421    | 4.590  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.793 | 106  | 40990    | 8.891  | ug/l   | 98       |
| 69) o-Xylene                  | 12.122 | 106  | 17222    | 4.087  | ug/l   | 82       |
| 70) Styrene                   | 12.134 | 104  | 31229    | 4.225  | ug/l   | 96       |
| 71) Bromoform                 | 12.293 | 173  | 5382     | 4.753  | ug/l # | 89       |
| 73) Isopropylbenzene          | 12.422 | 105  | 45644    | 4.460  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.228 | 43   | 10568    | 4.635  | ug/l # | 84       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 10281    | 5.380  | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 6173m    | 2.582  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 11289    | 4.932  | ug/l   | 82       |
| 78) n-propylbenzene           | 12.757 | 91   | 57893    | 4.571  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.846 | 91   | 32285    | 4.578  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.898 | 105  | 35989    | 4.241  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 3335     | 4.782  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 34401    | 4.639  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 31498    | 4.398  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 36532    | 4.207  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.340 | 105  | 49154    | 4.454  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 37650    | 4.061  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 23150    | 4.751  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 23604    | 4.907  | ug/l   | 84       |
| 89) n-Butylbenzene            | 13.781 | 91   | 39360    | 4.504  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.051 | 117  | 9871     | 5.189  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 21283    | 5.072  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 1281     | 4.911  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.092 | 180  | 11767    | 4.874  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 5771     | 4.754  | ug/l   | 97       |
| 95) Naphthalene               | 15.328 | 128  | 21438    | 4.643  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 9967     | 4.710  | ug/l   | 99       |

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Sample : VSTDICC005  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/13/2024  
Supervised By :Mahesh Dadoda 08/13/2024

Quant Time: Aug 12 14:27:31 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081224S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 12 14:24:32 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

## Manual Integrations APPROVED

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