

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030124\  
 Data File : VD078573.D  
 Acq On : 01 Mar 2024 12:16  
 Operator : RP/MD  
 Sample : VSTDICC005  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2024  
 Supervised By :Mahesh Dadoda 03/04/2024

Quant Time: Mar 02 03:35:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D030124S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 02 03:25:57 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 127503     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 227182     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 211783     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 98668      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 6608       | 5.228    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 10.460%# |        |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 6514       | 4.408    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 8.820%#  |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 24492      | 4.265    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 8.540%#  |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 7263       | 4.428    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 8.860%#  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 6622       | 2.690    | ug/l   | 87       |
| 3) Chloromethane             | 2.152          | 50   | 12857      | 2.722    | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.287          | 62   | 18313      | 5.843    | ug/l   | 96       |
| 5) Bromomethane              | 2.699          | 94   | 13583      | 5.426    | ug/l   | 91       |
| 6) Chloroethane              | 2.840          | 64   | 12223      | 5.262    | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 11718      | 5.529    | ug/l   | 99       |
| 8) Diethyl Ether             | 3.599          | 74   | 3344       | 5.619    | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 7572       | 5.669    | ug/l   | 97       |
| 10) Methyl Iodide            | 4.169          | 142  | 6686       | 4.784    | ug/l # | 91       |
| 11) Tert butyl alcohol       | 5.052          | 59   | 2190       | 33.479   | ug/l # | 73       |
| 12) 1,1-Dichloroethene       | 3.946          | 96   | 6638       | 5.324    | ug/l   | 90       |
| 13) Acrolein                 | 3.805          | 56   | 3394       | 27.077   | ug/l   | 87       |
| 14) Allyl chloride           | 4.575          | 41   | 7889       | 5.555    | ug/l   | 95       |
| 15) Acrylonitrile            | 5.263          | 53   | 6762       | 27.563   | ug/l # | 74       |
| 16) Acetone                  | 4.022          | 43   | 7472       | 30.858   | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.275          | 76   | 23222      | 5.590    | ug/l   | 99       |
| 18) Methyl Acetate           | 4.569          | 43   | 1625       | 3.545    | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 13086      | 5.162    | ug/l   | 99       |
| 20) Methylene Chloride       | 4.805          | 84   | 24325      | 5.077    | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 8246       | 5.504    | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.216          | 45   | 16686      | 5.240    | ug/l # | 88       |
| 23) Vinyl Acetate            | 6.157          | 43   | 48005      | 25.385   | ug/l # | 86       |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 13529      | 5.624    | ug/l   | 98       |
| 25) 2-Butanone               | 7.087          | 43   | 8698       | 28.476   | ug/l # | 81       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 11149      | 5.486    | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 8670       | 5.285    | ug/l   | 91       |
| 28) Bromochloromethane       | 7.428          | 49   | 4203       | 4.677    | ug/l # | 98       |
| 29) Tetrahydrofuran          | 7.451          | 42   | 4680       | 27.579   | ug/l # | 74       |
| 30) Chloroform               | 7.604          | 83   | 14882      | 5.730    | ug/l # | 82       |
| 31) Cyclohexane              | 7.875          | 56   | 11497      | 5.812    | ug/l # | 80       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 12286      | 5.514    | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 10051      | 4.915    | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.181          | 43   | 3247       | 4.900    | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 11088      | 5.184    | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.275          | 83   | 11420      | 4.758    | ug/l   | 94       |
| 40) Benzene                  | 8.257          | 78   | 30491      | 5.030    | ug/l   | 92       |

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 Data File : VD078573.D  
 Acq On : 01 Mar 2024 12:16  
 Operator : RP/MD  
 Sample : VSTDICC005  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2024  
 Supervised By :Mahesh Dadoda 03/04/2024

Quant Time: Mar 02 03:35:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D030124S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 02 03:25:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.422  | 41   | 2197     | 6.186   | ug/l # | 28       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 8472     | 5.509   | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 6881     | 5.417   | ug/l   | 97       |
| 44) Trichloroethene           | 9.028  | 130  | 8555     | 5.143   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 7388     | 5.074   | ug/l   | 93       |
| 46) Dibromomethane            | 9.398  | 93   | 4214     | 5.020   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.587  | 83   | 10427    | 5.038   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.381  | 41   | 2777     | 4.826   | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.393  | 88   | 673      | 146.648 | ug/l # | 67       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 16262    | 24.802  | ug/l   | 90       |
| 52) Toluene                   | 10.334 | 92   | 17437    | 4.483   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 9902     | 5.172   | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 11132    | 4.856   | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 6788     | 5.743   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 5425     | 4.579   | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 9459     | 4.939   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.875  | 63   | 10054    | 13.067  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.922 | 43   | 12078    | 24.835  | ug/l   | 87       |
| 60) Dibromochloromethane      | 11.075 | 129  | 6898     | 4.833   | ug/l   | 92       |
| 61) 1,2-Dibromoethane         | 11.175 | 107  | 5070     | 4.674   | ug/l   | 86       |
| 64) Tetrachloroethene         | 10.810 | 164  | 6611     | 4.961   | ug/l   | 88       |
| 65) Chlorobenzene             | 11.604 | 112  | 20663    | 4.955   | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 7746     | 4.989   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.681 | 91   | 32519    | 4.500   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.792 | 106  | 25569    | 8.746   | ug/l   | 95       |
| 69) o-Xylene                  | 12.122 | 106  | 11124    | 4.194   | ug/l   | 95       |
| 70) Styrene                   | 12.139 | 104  | 19174    | 4.171   | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 4277     | 5.178   | ug/l # | 94       |
| 73) Isopropylbenzene          | 12.422 | 105  | 29769    | 4.760   | ug/l   | 93       |
| 74) N-amyl acetate            | 12.234 | 43   | 5665     | 5.381   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 6890     | 5.750   | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 4531m    | 5.999   | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 7786     | 5.147   | ug/l   | 91       |
| 78) n-propylbenzene           | 12.763 | 91   | 36910    | 4.825   | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 20216    | 4.924   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 22132    | 4.349   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 1692     | 4.806   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 21665    | 4.952   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 20074    | 4.581   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 23488    | 4.515   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 31727    | 4.641   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 24207    | 4.206   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 15630    | 4.836   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 17546    | 5.419   | ug/l   | 94       |
| 89) n-Butylbenzene            | 13.786 | 91   | 26005    | 4.835   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.051 | 117  | 6028     | 5.151   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 13799    | 5.026   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.439 | 75   | 998      | 6.249   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 8121     | 4.995   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 4606     | 5.149   | ug/l   | 92       |
| 95) Naphthalene               | 15.328 | 128  | 14046    | 4.889   | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 7620     | 5.278   | ug/l   | 92       |

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Operator : RP/MD  
Sample : VSTDICC005  
Misc : 5.00G/5ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2024  
Supervised By :Mahesh Dadoda 03/04/2024

Quant Time: Mar 02 03:35:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D030124S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 02 03:25:57 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

