

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100623\  
 Data File : VD077287.D  
 Acq On : 06 Oct 2023 13:09  
 Operator : JC/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/09/2023  
 Supervised By :Semsettin Yesilyurt 10/09/2023

Quant Time: Oct 09 09:36:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100623S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 09 09:30:14 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 192071              | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 322180              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 305595              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 161404              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 127788              | 52.681  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.360% |         |       |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 144707              | 52.052  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 104.100% |         |       |          |
| 50) Toluene-d8               | 10.269         | 98   | 549299              | 54.845  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 109.680% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 164687              | 51.708  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 103.420% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 117833              | 45.749  | ug/l  | 96       |
| 3) Chloromethane             | 2.146          | 50   | 192217              | 47.048  | ug/l  | 99       |
| 4) Vinyl Chloride            | 2.281          | 62   | 244279              | 49.445  | ug/l  | 99       |
| 5) Bromomethane              | 2.687          | 94   | 166739              | 47.065  | ug/l  | 98       |
| 6) Chloroethane              | 2.834          | 64   | 159401              | 50.140  | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 3.169          | 101  | 246727              | 47.836  | ug/l  | 100      |
| 8) Diethyl Ether             | 3.593          | 74   | 75893               | 49.057  | ug/l  | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 152439              | 48.113  | ug/l  | 97       |
| 10) Methyl Iodide            | 4.163          | 142  | 208306              | 52.387  | ug/l  | 92       |
| 11) Tert butyl alcohol       | 5.058          | 59   | 40551               | 229.607 | ug/l  | 98       |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 150192              | 48.585  | ug/l  | 88       |
| 13) Acrolein                 | 3.793          | 56   | 67863               | 241.145 | ug/l  | 99       |
| 14) Allyl chloride           | 4.563          | 41   | 201852              | 49.128  | ug/l  | 91       |
| 15) Acrylonitrile            | 5.257          | 53   | 178863              | 249.077 | ug/l  | 99       |
| 16) Acetone                  | 4.016          | 43   | 160150              | 242.668 | ug/l  | 91       |
| 17) Carbon Disulfide         | 4.263          | 76   | 497058              | 48.246  | ug/l  | 98       |
| 18) Methyl Acetate           | 4.563          | 43   | 126020              | 48.248  | ug/l  | 91       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 335485              | 50.289  | ug/l  | 99       |
| 20) Methylene Chloride       | 4.799          | 84   | 213872              | 52.022  | ug/l  | # 82     |
| 21) trans-1,2-Dichloroethene | 5.305          | 96   | 182284              | 49.399  | ug/l  | 94       |
| 22) Diisopropyl ether        | 6.210          | 45   | 451959              | 50.685  | ug/l  | # 93     |
| 23) Vinyl Acetate            | 6.152          | 43   | 918372m             | 249.475 | ug/l  |          |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 301366              | 48.682  | ug/l  | 96       |
| 25) 2-Butanone               | 7.081          | 43   | 220391              | 246.707 | ug/l  | # 82     |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 254030              | 48.604  | ug/l  | 97       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 201263              | 49.532  | ug/l  | 94       |
| 28) Bromochloromethane       | 7.428          | 49   | 122020              | 50.482  | ug/l  | # 78     |
| 29) Tetrahydrofuran          | 7.446          | 42   | 128479              | 250.779 | ug/l  | 89       |
| 30) Chloroform               | 7.593          | 83   | 315145              | 49.115  | ug/l  | 93       |
| 31) Cyclohexane              | 7.875          | 56   | 241540              | 48.086  | ug/l  | 85       |
| 32) 1,1,1-Trichloroethane    | 7.787          | 97   | 265834              | 49.258  | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 237346              | 50.656  | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.169          | 43   | 92150               | 48.989  | ug/l  | 95       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 218002              | 49.941  | ug/l  | 97       |
| 39) Methylcyclohexane        | 9.275          | 83   | 270635              | 49.733  | ug/l  | 94       |
| 40) Benzene                  | 8.251          | 78   | 728799              | 51.300  | ug/l  | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100623\  
 Data File : VD077287.D  
 Acq On : 06 Oct 2023 13:09  
 Operator : JC/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/09/2023  
 Supervised By :Semsettin Yesilyurt 10/09/2023

Quant Time: Oct 09 09:36:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100623S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 09 09:30:14 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 56925    | 54.009  | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 169122   | 50.054  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 172071   | 49.809  | ug/l   | 92       |
| 44) Trichloroethene           | 9.028  | 130  | 180042   | 49.922  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 175895   | 49.510  | ug/l   | 96       |
| 46) Dibromomethane            | 9.393  | 93   | 97451    | 50.777  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.587  | 83   | 233226   | 50.398  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.381  | 41   | 82693    | 52.328  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 20019    | 992.608 | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 460460   | 255.981 | ug/l   | 92       |
| 52) Toluene                   | 10.334 | 92   | 450520   | 51.070  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 220921   | 50.446  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 271454   | 50.584  | ug/l # | 93       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 130899   | 49.783  | ug/l   | 91       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 154307   | 52.245  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 220532   | 50.464  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 357324   | 252.241 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.922 | 43   | 330069   | 256.382 | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.075 | 129  | 152074   | 49.799  | ug/l   | 92       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 125767   | 51.445  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 148295   | 50.844  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.610 | 112  | 459070   | 50.168  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 166595   | 51.352  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.681 | 91   | 852621   | 51.715  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.792 | 106  | 670407   | 104.771 | ug/l   | 90       |
| 69) o-Xylene                  | 12.122 | 106  | 312612   | 53.065  | ug/l   | 94       |
| 70) Styrene                   | 12.134 | 104  | 543413   | 53.619  | ug/l   | 97       |
| 71) Bromoform                 | 12.298 | 173  | 91369    | 53.258  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.422 | 105  | 798408   | 51.113  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.234 | 43   | 163416   | 50.912  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 151102   | 48.563  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 101870m  | 47.878  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 181898   | 51.130  | ug/l   | 86       |
| 78) n-propylbenzene           | 12.763 | 91   | 1015803  | 52.076  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 532895   | 50.716  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 672706   | 52.293  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 50084    | 50.380  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 569056   | 51.176  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 565979   | 51.762  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 682110   | 52.782  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 870239   | 51.565  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 729310   | 52.290  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 377040   | 50.609  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 369743   | 50.346  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.786 | 91   | 705610   | 52.091  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.057 | 117  | 137522   | 49.710  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 325471   | 50.959  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 19699    | 48.006  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 194210   | 49.810  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 99694    | 49.753  | ug/l   | 99       |
| 95) Naphthalene               | 15.333 | 128  | 384609   | 50.426  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 173377   | 50.833  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100623\  
Data File : VD077287.D  
Acq On : 06 Oct 2023 13:09  
Operator : JC/SY  
Sample : VSTDICCC050  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 10/09/2023  
Supervised By :Semsettin Yesilyurt 10/09/2023

Quant Time: Oct 09 09:36:10 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100623S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 09 09:30:14 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100623\  
 Data File : VD077287.D  
 Acq On : 06 Oct 2023 13:09  
 Operator : JC/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Quant Time: Oct 09 09:36:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100623S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 09 09:30:14 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 10/09/2023  
 Supervised By : Semsettin Yesilyurt 10/09/2023

