

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022223\  
 Data File : VD075395.D  
 Acq On : 22 Feb 2023 11:08  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 02/23/2023  
 Supervised By :Mahesh Dadoda 02/23/2023

Quant Time: Feb 22 22:35:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022123S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 21 16:26:04 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 60644      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 97704      | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.587         | 117  | 87866      | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.522         | 152  | 44344      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 25708      | 49.181  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 98.360% |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 26734      | 46.092  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 92.180% |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 92238      | 44.065  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 88.120% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 32959      | 46.892  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 93.780% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 30027      | 44.290  | ug/l   | 96       |
| 3) Chloromethane             | 2.146          | 50   | 43900      | 44.256  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.281          | 62   | 49563      | 47.067  | ug/l   | 100      |
| 5) Bromomethane              | 2.687          | 94   | 29986      | 50.147  | ug/l   | 98       |
| 6) Chloroethane              | 2.834          | 64   | 33393      | 45.889  | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 60078      | 48.574  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.587          | 74   | 14723      | 51.125  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 35610      | 50.516  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.169          | 142  | 36330      | 47.540  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.046          | 59   | 7350       | 199.586 | ug/l # | 100      |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 33301      | 50.671  | ug/l   | 92       |
| 13) Acrolein                 | 3.793          | 56   | 1983       | 136.602 | ug/l   | 98       |
| 14) Allyl chloride           | 4.558          | 41   | 52521      | 50.538  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.252          | 53   | 32467      | 233.506 | ug/l   | 98       |
| 16) Acetone                  | 4.016          | 43   | 46293      | 294.950 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.269          | 76   | 108653     | 46.941  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.563          | 43   | 22382      | 45.508  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 65454      | 49.192  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.799          | 84   | 38702      | 51.473  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 37220      | 50.665  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.216          | 45   | 104505     | 52.644  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.157          | 43   | 205527m    | 307.517 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 64595      | 49.551  | ug/l   | 99       |
| 25) 2-Butanone               | 7.075          | 43   | 52442      | 267.932 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 59005      | 52.042  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 39250      | 50.225  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.428          | 49   | 13304      | 50.863  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 27345      | 247.704 | ug/l   | 95       |
| 30) Chloroform               | 7.599          | 83   | 65457      | 50.001  | ug/l   | 96       |
| 31) Cyclohexane              | 7.875          | 56   | 58747      | 47.730  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 60078      | 49.856  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 52979      | 50.962  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.169          | 43   | 20409      | 50.163  | ug/l # | 97       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 52820      | 50.710  | ug/l   | 93       |
| 39) Methylcyclohexane        | 9.275          | 83   | 61731      | 50.380  | ug/l   | 100      |
| 40) Benzene                  | 8.251          | 78   | 142616     | 50.114  | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 02/23/2023  
 Supervised By :Mahesh Dadoda 02/23/2023

Quant Time: Feb 22 22:35:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022123S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 21 16:26:04 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 9977     | 42.759  | ug/l # | 84       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 40938    | 51.519  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.357  | 43   | 38048    | 49.772  | ug/l # | 85       |
| 44) Trichloroethene           | 9.028  | 130  | 37816    | 49.602  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 36012    | 51.890  | ug/l   | 95       |
| 46) Dibromomethane            | 9.393  | 93   | 19152    | 50.681  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.587  | 83   | 48904    | 50.855  | ug/l # | 95       |
| 48) Methyl methacrylate       | 9.381  | 41   | 18767    | 48.836  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 3280     | 950.536 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.163 | 43   | 99208    | 256.253 | ug/l   | 98       |
| 52) Toluene                   | 10.334 | 92   | 92342    | 52.702  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 44262    | 56.222  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 52900    | 55.425  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 24092    | 49.211  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 28369    | 52.074  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 42216    | 50.066  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 39844    | 292.732 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.922 | 43   | 75293    | 275.604 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.075 | 129  | 31025    | 49.567  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 23578    | 50.792  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 31559    | 50.179  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.610 | 112  | 93022    | 50.616  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 34988    | 52.427  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.687 | 91   | 178374   | 53.519  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.798 | 106  | 137077   | 104.925 | ug/l   | 100      |
| 69) o-Xylene                  | 12.122 | 106  | 62224    | 52.005  | ug/l   | 98       |
| 70) Styrene                   | 12.139 | 104  | 105256   | 52.710  | ug/l   | 99       |
| 71) Bromoform                 | 12.304 | 173  | 17624    | 51.531  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 171807   | 51.384  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.234 | 43   | 35088    | 49.019  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 27048    | 48.272  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 22035m   | 65.435  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 36097    | 47.765  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.769 | 91   | 213176   | 50.955  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 112327   | 49.721  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 143103   | 51.716  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 7277     | 53.092  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 120601   | 50.599  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 119918   | 49.992  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 142093   | 51.990  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 188129   | 50.909  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 157621   | 52.503  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 76642    | 49.239  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 77057    | 50.460  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.792 | 91   | 152287   | 51.564  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.057 | 117  | 29923    | 49.686  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 65106    | 49.886  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 4101     | 48.952  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.104 | 180  | 39590    | 49.888  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.210 | 225  | 22533    | 49.056  | ug/l   | 97       |
| 95) Naphthalene               | 15.339 | 128  | 68747    | 48.967  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.528 | 180  | 33827    | 50.413  | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 02/23/2023  
Supervised By :Mahesh Dadoda 02/23/2023

Quant Time: Feb 22 22:35:36 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022123S.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 21 16:26:04 2023  
Response via : Initial Calibration

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

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

