

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091222\  
 Data File : VY010446.D  
 Acq On : 12 Sep 2022 14:37  
 Operator : KP/MD  
 Sample : MDL02 2.5PPB  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL02 2.5PPB

Quant Time: Sep 13 05:26:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 13 05:24:24 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 09/13/2022  
 Supervised By :Mahesh Dadoda 09/13/2022

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 229309              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 362213              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 319605              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 159839              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 128524              | 55.650 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 111.300% |        |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 126643              | 49.230 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 98.460%  |        |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 467985              | 56.132 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 112.260% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 161125              | 42.115 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 84.220%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 5292                | 3.012  | ug/l   | 95       |
| 3) Chloromethane             | 2.107          | 50   | 7989                | 3.101  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.241          | 62   | 8836                | 2.780  | ug/l   | 100      |
| 5) Bromomethane              | 2.643          | 94   | 6978                | 3.134  | ug/l   | 96       |
| 6) Chloroethane              | 2.790          | 64   | 5714                | 2.688  | ug/l   | 89       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 11021               | 2.737  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.527          | 74   | 3510                | 2.692  | ug/l   | 81       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 6435                | 2.730  | ug/l # | 71       |
| 10) Methyl Iodide            | 4.082          | 142  | 6631                | 2.273  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 5008                | 16.054 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 5849                | 2.645  | ug/l # | 72       |
| 13) Acrolein                 | 3.710          | 56   | 2536                | 11.510 | ug/l   | 97       |
| 14) Allyl chloride           | 4.466          | 41   | 8558                | 2.687  | ug/l # | 94       |
| 15) Acrylonitrile            | 5.155          | 53   | 8078                | 12.798 | ug/l   | 96       |
| 16) Acetone                  | 3.942          | 43   | 8705                | 16.424 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.186          | 76   | 15072               | 2.520  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.472          | 43   | 5626                | 3.450  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 16044               | 2.627  | ug/l   | 91       |
| 20) Methylene Chloride       | 4.704          | 84   | 31276               | 9.669  | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 6423                | 2.558  | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.112          | 45   | 18137               | 2.551  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.051          | 43   | 48055               | 11.030 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 11238               | 2.611  | ug/l # | 93       |
| 25) 2-Butanone               | 6.984          | 43   | 12658               | 15.028 | ug/l # | 78       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 12786               | 3.113  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 7627                | 2.613  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.326          | 49   | 3968                | 2.875  | ug/l # | 75       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 6592                | 12.540 | ug/l # | 81       |
| 30) Chloroform               | 7.502          | 83   | 12161               | 2.664  | ug/l   | 95       |
| 31) Cyclohexane              | 7.783          | 56   | 14096               | 3.613  | ug/l # | 50       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 10710               | 2.591  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 9310                | 2.644  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.063          | 43   | 5299                | 2.862  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 10504               | 2.681  | ug/l   | 91       |
| 39) Methylcyclohexane        | 9.179          | 83   | 11469               | 2.612  | ug/l   | 95       |
| 40) Benzene                  | 8.155          | 78   | 26512               | 2.615  | ug/l   | 93       |

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 Sample : MDL02 2.5PPB  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL02 2.5PPB

Quant Time: Sep 13 05:26:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 13 05:24:24 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/13/2022  
 Supervised By :Mahesh Dadoda 09/13/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.295  | 41   | 2194     | 2.073  | ug/l # | 47       |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 8195     | 2.718  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 7998     | 2.361  | ug/l # | 91       |
| 44) Trichloroethene           | 8.935  | 130  | 7756     | 2.599  | ug/l   | 86       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 6655     | 2.692  | ug/l   | 99       |
| 46) Dibromomethane            | 9.301  | 93   | 3751     | 2.516  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.490  | 83   | 9580     | 2.705  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 3723m    | 2.447  | ug/l   |          |
| 49) 1,4-Dioxane               | 9.301  | 88   | 951      | 48.182 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 22300    | 12.000 | ug/l   | 92       |
| 52) Toluene                   | 10.240 | 92   | 17395    | 2.622  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 8773     | 2.407  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 10439    | 2.539  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 5246     | 2.473  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 6330     | 2.273  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 9442     | 2.677  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 15986    | 16.870 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 14270    | 11.265 | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.983 | 129  | 6520     | 2.516  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 5280     | 2.564  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.715 | 164  | 8061     | 2.798  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 18678    | 2.613  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 6575     | 2.484  | ug/l   | 91       |
| 67) Ethyl Benzene             | 11.593 | 91   | 32617    | 2.578  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.703 | 106  | 24966    | 5.027  | ug/l   | 92       |
| 69) o-Xylene                  | 12.026 | 106  | 11534    | 2.432  | ug/l   | 97       |
| 70) Styrene                   | 12.044 | 104  | 18711    | 2.331  | ug/l   | 97       |
| 71) Bromoform                 | 12.203 | 173  | 3960     | 2.393  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.331 | 105  | 31325    | 2.512  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.142 | 43   | 6064     | 2.084  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 6446     | 2.763  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 4969m    | 2.817  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 7835     | 2.651  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 37883    | 2.565  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 21707    | 2.617  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 26994    | 2.565  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 2049m    | 2.579  | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 22038    | 2.554  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 22891    | 2.489  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 25659    | 2.492  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 34434    | 2.528  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 28104    | 2.440  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 15703    | 2.646  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 15642    | 2.662  | ug/l   | 89       |
| 89) n-Butylbenzene            | 13.696 | 91   | 25945    | 2.481  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 5811     | 2.687  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 14230    | 2.707  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 1129     | 2.867  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 8296     | 2.541  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 5330     | 2.706  | ug/l   | 92       |
| 95) Naphthalene               | 15.239 | 128  | 14651    | 2.276  | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 7457     | 2.617  | ug/l   | 97       |

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ALS Vial : 9 Sample Multiplier: 1

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MSVOA\_Y  
ClientSampleId :  
MDL02 2.5PPB

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 09/13/2022  
Supervised By :Mahesh Dadoda 09/13/2022

Quant Time: Sep 13 05:26:19 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 13 05:24:24 2022  
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

