

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101722\  
 Data File : VY010978.D  
 Acq On : 17 Oct 2022 18:29  
 Operator : KP/MD  
 Sample : N4955-03 2.5PPB  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2022

Quant Time: Oct 18 02:00:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 18 01:59:49 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 10/18/2022  
 Supervised By :Mahesh Dadoda 10/19/2022

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 272584              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 460140              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 407372              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 192399              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 126612              | 53.398 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 106.800% |        |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 125378              | 48.831 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 97.660%  |        |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 454302              | 48.761 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 97.520%  |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 155852              | 45.519 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 91.040%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 5102                | 2.069  | ug/l   | 95       |
| 3) Chloromethane             | 2.113          | 50   | 8308                | 1.797  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.247          | 62   | 8445                | 1.985  | ug/l   | 91       |
| 5) Bromomethane              | 2.650          | 94   | 7041                | 1.752  | ug/l   | 100      |
| 6) Chloroethane              | 2.790          | 64   | 5618                | 2.171  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 11648               | 2.372  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.521          | 74   | 4542                | 2.596  | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 7421                | 2.430  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.082          | 142  | 9314                | 3.928  | ug/l   | 89       |
| 11) Tert butyl alcohol       | 4.924          | 59   | 8932                | 10.841 | ug/l # | 85       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 7231                | 2.509  | ug/l   | 90       |
| 13) Acrolein                 | 3.723          | 56   | 5445                | 10.224 | ug/l   | 92       |
| 14) Allyl chloride           | 4.473          | 41   | 11162               | 2.838  | ug/l # | 88       |
| 15) Acrylonitrile            | 5.161          | 53   | 11530               | 11.342 | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 10522               | 3.696  | ug/l # | 87       |
| 17) Carbon Disulfide         | 4.192          | 76   | 22792               | 1.931  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.473          | 43   | 9255                | 1.795  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 18703               | 2.974  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 8168                | 2.356  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.106          | 45   | 21692               | 2.254  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.058          | 43   | 56628               | 14.207 | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 14199               | 2.389  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 15743               | 10.193 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 14003               | 2.901  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 9138                | 2.760  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.332          | 49   | 4466                | 5.730  | ug/l # | 81       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 9030                | 10.620 | ug/l # | 86       |
| 30) Chloroform               | 7.502          | 83   | 14561               | 2.421  | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 16674               | 2.628  | ug/l # | 48       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 12391               | 2.749  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 11234               | 2.669  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.070          | 43   | 6882                | 2.823  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 11167               | 2.759  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.179          | 83   | 13024               | 3.315  | ug/l   | 93       |
| 40) Benzene                  | 8.155          | 78   | 34010               | 2.534  | ug/l   | 98       |
| 41) Methacrylonitrile        | 7.307          | 41   | 2683                | 4.983  | ug/l # | 1        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101722\  
 Data File : VY010978.D  
 Acq On : 17 Oct 2022 18:29  
 Operator : KP/MD  
 Sample : N4955-03 2.5PPB  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2022

Quant Time: Oct 18 02:00:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 18 01:59:49 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 10/18/2022  
 Supervised By :Mahesh Dadoda 10/19/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 9789     | 2.588  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 10282    | 3.140  | ug/l # | 87       |
| 44) Trichloroethene           | 8.935  | 130  | 8820     | 2.791  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 8459     | 2.753  | ug/l   | 100      |
| 46) Dibromomethane            | 9.301  | 93   | 4665     | 2.798  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 11104    | 3.048  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.289  | 41   | 4678     | 3.580  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 1076     | 52.448 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 28510    | 13.035 | ug/l   | 90       |
| 52) Toluene                   | 10.240 | 92   | 20591    | 2.917  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 10995    | 3.348  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 12615    | 3.028  | ug/l # | 81       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 6825     | 2.677  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 7936     | 3.802  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 11533    | 2.515  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 18707    | 27.303 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.831 | 43   | 18376    | 12.602 | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.984 | 129  | 7502     | 2.724  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 6455     | 2.667  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 8691     | 2.301  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.514 | 112  | 22061    | 2.478  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 7731     | 2.693  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.593 | 91   | 37265    | 3.019  | ug/l   | 92       |
| 68) m/p-Xylenes               | 11.703 | 106  | 27617    | 5.702  | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 12769    | 3.149  | ug/l   | 97       |
| 70) Styrene                   | 12.044 | 104  | 21229    | 3.046  | ug/l   | 96       |
| 71) Bromoform                 | 12.203 | 173  | 4966     | 3.179  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.325 | 105  | 33449    | 3.202  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 8144     | 3.913  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 8166     | 2.894  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 4757m    | 2.127  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 9080     | 3.264  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 43476    | 2.933  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 24421    | 3.129  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 27911    | 2.678  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 2529     | 3.766  | ug/l # | 85       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 25587    | 2.852  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 24078    | 3.277  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 27071    | 2.786  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 36850    | 2.666  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 29543    | 2.949  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 17296    | 2.789  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 18103    | 2.604  | ug/l   | 89       |
| 89) n-Butylbenzene            | 13.696 | 91   | 29104    | 2.923  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 6561     | 2.822  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 16034    | 2.613  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 1201     | 2.636  | ug/l   | 74       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 8815     | 3.680  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 5775     | 2.730  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 16628    | 4.378  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 7528     | 3.353  | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101722\  
 Data File : VY010978.D  
 Acq On : 17 Oct 2022 18:29  
 Operator : KP/MD  
 Sample : N4955-03 2.5PPB  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_Y  
**ClientSampleId :**  
 MDL-SOIL-03-QT4-2022

Quant Time: Oct 18 02:00:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 18 01:59:49 2022  
 Response via : Initial Calibration

**Manual Integrations**  
**APPROVED**

Reviewed By :Krupa Patel 10/18/2022  
 Supervised By :Mahesh Dadoda 10/19/2022

| Compound                                                                  | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                     |      |      |          |      |       |          |
| (#)= qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

