

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103023\  
 Data File : VY016122.D  
 Acq On : 30 Oct 2023 09:43  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/31/2023  
 Supervised By : Mahesh Dadoda 10/31/2023

Quant Time: Oct 31 01:25:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 27 04:12:29 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 226140              | 50.000  | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 366057              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 320193              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 159704              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 113818              | 50.616  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 101.240% |         |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 114004              | 49.333  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 98.660%  |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 427018              | 49.885  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 99.780%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 147019              | 50.070  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 100.140% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 69921               | 44.801  | ug/l   | 98       |
| 3) Chloromethane             | 2.119          | 50   | 85913               | 44.923  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.259          | 62   | 99916               | 45.733  | ug/l   | 97       |
| 5) Bromomethane              | 2.662          | 94   | 74080               | 45.618  | ug/l   | 95       |
| 6) Chloroethane              | 2.802          | 64   | 67796               | 45.303  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 157655              | 45.092  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.540          | 74   | 52998               | 45.226  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 92625               | 43.916  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.107          | 142  | 124945              | 46.362  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 45255               | 175.739 | ug/l # | 82       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 87280               | 45.167  | ug/l   | 90       |
| 13) Acrolein                 | 3.741          | 56   | 54174               | 193.431 | ug/l   | 98       |
| 14) Allyl chloride           | 4.491          | 41   | 134933              | 44.669  | ug/l # | 95       |
| 15) Acrylonitrile            | 5.173          | 53   | 133218              | 231.735 | ug/l   | 98       |
| 16) Acetone                  | 3.954          | 43   | 157181              | 257.890 | ug/l   | 92       |
| 17) Carbon Disulfide         | 4.210          | 76   | 234582              | 43.886  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491          | 43   | 97395               | 45.197  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 265552              | 48.188  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.728          | 84   | 105096              | 43.536  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 101894              | 45.489  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.131          | 45   | 305180              | 46.203  | ug/l   | 90       |
| 23) Vinyl Acetate            | 6.070          | 43   | 834802              | 235.886 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 181161              | 45.524  | ug/l   | 96       |
| 25) 2-Butanone               | 6.996          | 43   | 199253              | 242.224 | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 173379              | 46.868  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 121003              | 45.998  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.344          | 49   | 72432               | 44.491  | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 108731              | 230.374 | ug/l   | 90       |
| 30) Chloroform               | 7.515          | 83   | 193422              | 46.012  | ug/l   | 97       |
| 31) Cyclohexane              | 7.795          | 56   | 150954              | 42.671  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 173069              | 45.899  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 143612              | 44.583  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.082          | 43   | 76916               | 46.585  | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 157025              | 46.097  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.191          | 83   | 175688              | 44.770  | ug/l   | 92       |
| 40) Benzene                  | 8.167          | 78   | 413959              | 45.390  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103023\  
 Data File : VY016122.D  
 Acq On : 30 Oct 2023 09:43  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Oct 31 01:25:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 27 04:12:29 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/31/2023  
 Supervised By : Mahesh Dadoda 10/31/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 34844    | 40.324  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 125179   | 47.502  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 144552   | 46.825  | ug/l # | 92       |
| 44) Trichloroethene           | 8.947  | 130  | 116994   | 45.941  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 105752   | 45.815  | ug/l   | 96       |
| 46) Dibromomethane            | 9.313  | 93   | 63643    | 47.024  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 152548   | 46.606  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.301  | 41   | 67365    | 47.366  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 15579    | 920.038 | ug/l # | 48       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 381524   | 234.216 | ug/l   | 90       |
| 52) Toluene                   | 10.252 | 92   | 268960   | 45.926  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 159721   | 47.719  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 177379   | 46.862  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 87307    | 45.403  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 119777   | 48.467  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 148320   | 46.141  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 290296   | 235.957 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.837 | 43   | 301142   | 250.966 | ug/l   | 89       |
| 60) Dibromochloromethane      | 10.990 | 129  | 110367   | 46.869  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 84839    | 46.074  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.727 | 164  | 97007    | 45.782  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 295508   | 46.963  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 113155   | 48.154  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 524200   | 46.902  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.709 | 106  | 409765   | 94.740  | ug/l   | 94       |
| 69) o-Xylene                  | 12.032 | 106  | 197457   | 47.687  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 333421   | 48.306  | ug/l   | 96       |
| 71) Bromoform                 | 12.209 | 173  | 70042    | 48.933  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 523322   | 46.561  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 130634   | 47.667  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 106011   | 46.141  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 70780m   | 43.410  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 123842   | 47.212  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 625911   | 45.993  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 353482   | 46.378  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 436016   | 46.725  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 36945    | 49.239  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 362788   | 45.898  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 398004   | 47.983  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 431464   | 46.816  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 574399   | 46.495  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 481988   | 46.756  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 243529   | 45.978  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 242938   | 46.409  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 451424   | 46.944  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.965 | 117  | 91919    | 45.800  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 219353   | 46.775  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 16857    | 46.735  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 136317   | 46.985  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 77824    | 46.217  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 284119   | 50.214  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 118161   | 47.227  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103023\  
Data File : VY016122.D  
Acq On : 30 Oct 2023 09:43  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/31/2023  
Supervised By :Mahesh Dadoda 10/31/2023

Quant Time: Oct 31 01:25:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 27 04:12:29 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\_Y\Data\VY103023\  
Data File : VY016122.D  
Acq On : 30 Oct 2023 09:43  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Quant Time: Oct 31 01:25:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 27 04:12:29 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/31/2023  
Supervised By :Mahesh Dadoda 10/31/2023

