

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092221\  
 Data File : VY006102.D  
 Acq On : 22 Sep 2021 13:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2021 11:35:57 AM

Quant Time: Sep 22 18:13:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 15 05:01:47 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 147092     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 217037     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 192277     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 94709      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 82084      | 40.174  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 80.340% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 62276      | 46.197  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 92.400% |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 269062     | 46.830  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 93.660% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 86851      | 44.523  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 89.040% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 69065      | 44.447  | ug/l   | 100      |
| 3) Chloromethane             | 2.119          | 50   | 82739      | 42.821  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.260          | 62   | 96845      | 44.390  | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 62703      | 44.301  | ug/l   | 100      |
| 6) Chloroethane              | 2.802          | 64   | 58582      | 44.776  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 130102     | 45.746  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.534          | 74   | 38765      | 41.463  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 69390      | 48.869  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.095          | 142  | 71265      | 47.410  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 82284      | 280.585 | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 70160      | 47.771  | ug/l   | 91       |
| 13) Acrolein                 | 3.735          | 56   | 34914      | 284.385 | ug/l   | 97       |
| 14) Allyl chloride           | 4.485          | 41   | 142542     | 45.467  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.168          | 53   | 132055     | 247.967 | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 157014     | 280.179 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.198          | 76   | 229553     | 46.801  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 65680      | 46.527  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.229          | 73   | 190458     | 40.224  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.723          | 84   | 92400      | 53.138  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.229          | 96   | 77069      | 46.797  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.125          | 45   | 246665     | 40.490  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.064          | 43   | 818302     | 212.878 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 141275     | 45.263  | ug/l   | 98       |
| 25) 2-Butanone               | 6.990          | 43   | 195167     | 252.677 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 137128     | 46.378  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 83943      | 45.688  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 63841      | 46.562  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 117062     | 241.141 | ug/l   | 98       |
| 30) Chloroform               | 7.509          | 83   | 137553     | 43.954  | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 144156     | 44.043  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 131301     | 44.685  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 114026     | 48.676  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076          | 43   | 77652      | 47.984  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 119714     | 46.942  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 141498     | 48.735  | ug/l   | 99       |
| 40) Benzene                  | 8.167          | 78   | 315674     | 46.992  | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092221\  
 Data File : VY006102.D  
 Acq On : 22 Sep 2021 13:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2021 11:35:57 AM

Quant Time: Sep 22 18:13:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 15 05:01:47 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.332  | 41   | 49483m   | 52.354   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 99023    | 41.683   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 134172   | 44.512   | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 82640    | 49.366   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 75008    | 45.136   | ug/l   | 95       |
| 46) Dibromomethane            | 9.307  | 93   | 40138    | 44.623   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 102418   | 44.237   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 64496    | 46.305   | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 13848    | 1115.579 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 373785   | 232.604  | ug/l   | 98       |
| 52) Toluene                   | 10.246 | 92   | 192857   | 46.589   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 111652   | 43.902   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 122984   | 44.837   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 55510    | 44.910   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 85309    | 43.174   | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 100524   | 44.125   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 233894   | 226.114  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 280055   | 252.441  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.990 | 129  | 68154    | 44.724   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 53528    | 45.850   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 81014    | 51.514   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 194464   | 47.267   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 69812    | 45.526   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 381215   | 48.747   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 288289   | 97.218   | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 133540   | 47.680   | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 228278   | 47.578   | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 46791    | 48.733   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 365506   | 49.284   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 112371   | 43.877   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 66552    | 48.230   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 60287m   | 59.703   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 80752    | 46.664   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 452819   | 49.348   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 246447   | 49.397   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 301234   | 48.975   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 27594    | 50.241   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 254672   | 49.384   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 263223   | 50.036   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 296258   | 48.549   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.252 | 105  | 398306   | 50.578   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 329649   | 49.032   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 161338   | 48.342   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 158801   | 47.438   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.697 | 91   | 319145   | 50.762   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.959 | 117  | 60228    | 49.779   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 138589   | 47.305   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 13716    | 50.103   | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 91404    | 48.043   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 62362    | 50.662   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 194201   | 51.322   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 77161    | 46.801   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092221\  
Data File : VY006102.D  
Acq On : 22 Sep 2021 13:36  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
9/23/2021 11:35:57 AM

Quant Time: Sep 22 18:13:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 15 05:01:47 2021  
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\VY092221\  
Data File : VY006102.D  
Acq On : 22 Sep 2021 13:36  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
9/23/2021 11:35:57 AM

Quant Time: Sep 22 18:13:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 15 05:01:47 2021  
Response via : Initial Calibration

