

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022420\  
 Data File : VY001761.D  
 Acq On : 24 Feb 2020 09:54  
 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  
 2/25/2020 10:53:49 AM

Quant Time: Feb 24 13:47:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 198330   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 360579   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 320269   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 148073   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 100992   | 47.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.68%  |      |
| 35) Dibromofluoromethane  | 7.74   | 113 | 96838    | 46.89 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.78%  |      |
| 50) Toluene-d8            | 10.19  | 98  | 405808   | 50.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.32% |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 145164   | 46.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.36%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 97568   | 50.468  | ug/l | 99     |
| 3) Chloromethane              | 2.13 | 50  | 127071  | 48.868  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.27 | 62  | 126282  | 48.148  | ug/l | 98     |
| 5) Bromomethane               | 2.67 | 94  | 81442   | 49.684  | ug/l | 98     |
| 6) Chloroethane               | 2.81 | 64  | 78328   | 48.464  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.15 | 101 | 166993  | 49.748  | ug/l | 96     |
| 8) Diethyl Ether              | 3.55 | 74  | 62194   | 46.999  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.92 | 101 | 106575  | 50.513  | ug/l | 99     |
| 10) Methyl Iodide             | 4.12 | 142 | 126375  | 48.941  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.98 | 59  | 46398   | 180.720 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.90 | 96  | 106675  | 49.572  | ug/l | 99     |
| 13) Acrolein                  | 3.75 | 56  | 56206   | 260.871 | ug/l | 99     |
| 14) Allyl chloride            | 4.50 | 41  | 192872  | 50.361  | ug/l | 99     |
| 15) Acrylonitrile             | 5.19 | 53  | 151800  | 223.797 | ug/l | 99     |
| 16) Acetone                   | 3.97 | 43  | 188385  | 255.210 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.22 | 76  | 345202  | 48.049  | ug/l | 100    |
| 18) Methyl Acetate            | 4.50 | 43  | 69584   | 43.287  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 5.25 | 73  | 275928  | 46.054  | ug/l | 99     |
| 20) Methylene Chloride        | 4.75 | 84  | 118188  | 45.077  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.25 | 96  | 120429  | 49.051  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.14 | 45  | 383326  | 48.738  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.09 | 43  | 1201241 | 234.149 | ug/l | 97     |
| 24) 1,1-Dichloroethane        | 6.05 | 63  | 210749  | 50.135  | ug/l | 100    |
| 25) 2-Butanone                | 7.01 | 43  | 234061  | 233.418 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.01 | 77  | 179046  | 48.956  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.01 | 96  | 132154  | 48.764  | ug/l | 99     |
| 28) Bromochloromethane        | 7.36 | 49  | 90466   | 51.663  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.37 | 42  | 127068  | 209.654 | ug/l | 99     |
| 30) Chloroform                | 7.53 | 83  | 199586  | 48.592  | ug/l | 99     |
| 31) Cyclohexane               | 7.80 | 56  | 212343  | 47.378  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97  | 171504  | 49.681  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 165857  | 48.155  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.10 | 43  | 86211   | 41.938  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.92 | 117 | 148366  | 49.042  | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022420\  
 Data File : VY001761.D  
 Acq On : 24 Feb 2020 09:54  
 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  
 2/25/2020 10:53:49 AM

Quant Time: Feb 24 13:47:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.20  | 83   | 218418   | 47.801  | ug/l   | 99       |
| 40) Benzene                    | 8.18  | 78   | 492502   | 48.620  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.34  | 41   | 47446m   | 45.967  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.26  | 62   | 126102   | 45.695  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.29  | 43   | 170621   | 43.744  | ug/l   | 99       |
| 44) Trichloroethene            | 8.96  | 130  | 120440   | 47.629  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 124912   | 49.239  | ug/l   | 98       |
| 46) Dibromomethane             | 9.32  | 93   | 60892    | 45.891  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.51  | 83   | 154610   | 48.280  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.31  | 41   | 79389    | 45.005  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 15177    | 809.837 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 425239   | 212.197 | ug/l   | 99       |
| 52) Toluene                    | 10.26 | 92   | 304945   | 48.262  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.48 | 75   | 168256   | 47.526  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 198194   | 48.641  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 90856    | 46.437  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 132762   | 45.232  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 162894   | 46.857  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 234017   | 208.855 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.85 | 43   | 340051   | 226.155 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.00 | 129  | 102146   | 47.354  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 85918    | 46.443  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.73 | 164  | 96201    | 47.849  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.53 | 112  | 309479   | 48.400  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 105230   | 48.787  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.61 | 91   | 588136   | 49.565  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.71 | 106  | 435161   | 98.175  | ug/l   | 100      |
| 69) o-Xylene                   | 12.04 | 106  | 207706   | 49.290  | ug/l   | 97       |
| 70) Styrene                    | 12.05 | 104  | 358211   | 48.912  | ug/l   | 100      |
| 71) Bromoform                  | 12.22 | 173  | 55310    | 44.871  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.34 | 105  | 565155   | 50.100  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.16 | 43   | 158603   | 44.055  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 109216   | 45.344  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 77075m   | 45.376  | ug/l   |          |
| 77) Bromobenzene               | 12.62 | 156  | 117221   | 47.935  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.68 | 91   | 688203   | 50.093  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 378916   | 49.175  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 463406   | 49.627  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 42318    | 47.265  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 399899   | 49.207  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.09 | 119  | 391138   | 50.083  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 459683   | 49.378  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.27 | 105  | 572275   | 49.823  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 497639   | 49.872  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 229706   | 48.435  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.46 | 146  | 229126   | 47.794  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.71 | 91   | 513338   | 50.347  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.97 | 117  | 95409    | 50.749  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 204282   | 46.675  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.37 | 75   | 16506    | 41.524  | ug/l   | 98       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY022420\  
Data File : VY001761.D  
Acq On : 24 Feb 2020 09:54  
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  
2/25/2020 10:53:49 AM

Quant Time: Feb 24 13:47:15 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 17 12:19:53 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 135383   | 46.678 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 66355    | 46.002 | ug/l  | 98       |
| 95) Naphthalene            | 15.25 | 128  | 294158   | 43.987 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.44 | 180  | 116548   | 45.675 | ug/l  | 99       |

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

