

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010721\  
 Data File : VY003875.D  
 Acq On : 07 Jan 2021 12:54  
 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 1/8/2021 2:30:43 PM

Quant Time: Jan 08 03:59:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010721S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 08 03:54:08 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 254628     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 362114     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 340718     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 193922     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 17747      | 5.45    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 10.90%# |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 14948      | 5.24    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 10.48%# |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 57087      | 5.07    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 10.14%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 20946      | 5.28    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 10.56%# |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 12315      | 4.58    | ug/l   | 98       |
| 3) Chloromethane             | 2.119          | 50   | 16661      | 4.83    | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.253          | 62   | 18435      | 5.04    | ug/l   | 97       |
| 5) Bromomethane              | 2.656          | 94   | 18260      | 6.14    | ug/l   | 100      |
| 6) Chloroethane              | 2.802          | 64   | 11657      | 5.25    | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 25010      | 5.04    | ug/l   | 98       |
| 8) Diethyl Ether             | 3.534          | 74   | 8450       | 5.41    | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 14333      | 5.33    | ug/l   | 99       |
| 10) Methyl Iodide            | 4.095          | 142  | 6042       | 2.25    | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 8342       | 30.19   | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 13367      | 5.18    | ug/l   | 88       |
| 13) Acrolein                 | 3.735          | 56   | 8769       | 27.31   | ug/l   | 99       |
| 14) Allyl chloride           | 4.485          | 41   | 23700      | 5.16    | ug/l   | 98       |
| 15) Acrylonitrile            | 5.180          | 53   | 21115      | 26.01   | ug/l   | 99       |
| 16) Acetone                  | 3.960          | 43   | 18350      | 27.14   | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.210          | 76   | 42737      | 5.25    | ug/l   | 100      |
| 18) Methyl Acetate           | 4.485          | 43   | 11888      | 6.23    | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 37018      | 4.96    | ug/l   | 98       |
| 20) Methylene Chloride       | 4.729          | 84   | 25669      | 7.49    | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.241          | 96   | 15229      | 5.16    | ug/l   | 83       |
| 22) Diisopropyl ether        | 6.125          | 45   | 45432      | 4.86    | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.070          | 43   | 145294     | 23.52   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 27231      | 5.32    | ug/l   | 97       |
| 25) 2-Butanone               | 6.996          | 43   | 28170      | 26.95   | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 25209      | 5.26    | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 17212      | 5.34    | ug/l   | 97       |
| 28) Bromochloromethane       | 7.344          | 49   | 12333      | 5.42    | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 18625      | 25.84   | ug/l   | 95       |
| 30) Chloroform               | 7.515          | 83   | 28387      | 5.25    | ug/l   | 97       |
| 31) Cyclohexane              | 7.795          | 56   | 27823      | 5.55    | ug/l # | 77       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 24783      | 4.97    | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 21357      | 5.05    | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.082          | 43   | 12810      | 5.20    | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 23298      | 4.88    | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.185          | 83   | 24267      | 4.71    | ug/l   | 95       |
| 40) Benzene                  | 8.161          | 78   | 60311      | 5.06    | ug/l   | 100      |

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 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 1/8/2021 2:30:43 PM

Quant Time: Jan 08 03:59:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010721S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 08 03:54:08 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 6021     | 2.79   | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 19551    | 5.00   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 23343    | 5.00   | ug/l   | 99       |
| 44) Trichloroethene           | 8.935  | 130  | 18021    | 5.08   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 15472    | 5.09   | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 8966     | 5.23   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 21682    | 5.03   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 11106    | 4.98   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 2357     | 103.58 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 61080    | 24.80  | ug/l   | 99       |
| 52) Toluene                   | 10.240 | 92   | 37753    | 4.92   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 22109    | 4.83   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 25369    | 5.00   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 12972    | 5.28   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 15853    | 4.79   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 21479    | 5.09   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 44382    | 26.97  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.831 | 43   | 40159    | 23.55  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.984 | 129  | 16556    | 5.17   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 12417    | 5.14   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.721 | 164  | 20912    | 5.23   | ug/l   | 91       |
| 65) Chlorobenzene             | 11.514 | 112  | 43531    | 5.14   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 16818    | 5.03   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 71177    | 4.75   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 54102    | 9.40   | ug/l   | 99       |
| 69) o-Xylene                  | 12.026 | 106  | 25111    | 4.73   | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 42415    | 4.63   | ug/l   | 100      |
| 71) Bromoform                 | 12.203 | 173  | 11214    | 5.05   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 68893    | 4.67   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 20505    | 4.83   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 13919    | 5.10   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 11561m   | 4.70   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 19190    | 4.92   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.666 | 91   | 81620    | 4.67   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 47782    | 4.81   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 57649    | 4.56   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 5479     | 4.90   | ug/l # | 80       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 50686    | 4.76   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 52107    | 4.77   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 58439    | 4.57   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 71237    | 4.74   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 65515    | 4.61   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 36312    | 4.86   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 38156    | 5.17   | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.690 | 91   | 61029    | 4.71   | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 12651    | 4.79   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 33361    | 5.04   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 2918     | 5.35   | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 23401    | 4.86   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.105 | 225  | 16491    | 5.02   | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 38888    | 4.63   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 20534    | 4.97   | ug/l   | 97       |

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Sample : VSTDIC005  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Manual Integrations  
APPROVED

MMDadoda  
1/8/2021 2:30:43 PM

Quant Time: Jan 08 03:59:29 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010721S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 08 03:54:08 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

