

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032125\  
 Data File : VY021608.D  
 Acq On : 21 Mar 2025 18:32  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Mar 21 23:13:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

| Compound                     | R.T. QIon |       | Response | Conc     | Units | Dev(Min) |
|------------------------------|-----------|-------|----------|----------|-------|----------|
| -----                        |           |       |          |          |       |          |
| Internal Standards           |           |       |          |          |       |          |
| 1) Pentafluorobenzene        | 7.713     | 168   | 165468   | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.615     | 114   | 268727   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.420    | 117   | 247363   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346    | 152   | 132617   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |           |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.061     | 65    | 100097   | 57.234   | ug/l  | 0.00     |
| Spiked Amount                | 50.000    | Range | 50 - 163 | Recovery | =     | 114.460% |
| 35) Dibromofluoromethane     | 7.634     | 113   | 96767    | 54.783   | ug/l  | 0.00     |
| Spiked Amount                | 50.000    | Range | 54 - 147 | Recovery | =     | 109.560% |
| 50) Toluene-d8               | 10.109    | 98    | 346755   | 51.847   | ug/l  | 0.00     |
| Spiked Amount                | 50.000    | Range | 58 - 134 | Recovery | =     | 103.700% |
| 62) 4-Bromofluorobenzene     | 12.407    | 95    | 123213   | 54.159   | ug/l  | 0.00     |
| Spiked Amount                | 50.000    | Range | 30 - 143 | Recovery | =     | 108.320% |
| Target Compounds             |           |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.867     | 85    | 65926    | 43.417   | ug/l  | 100      |
| 3) Chloromethane             | 2.068     | 50    | 105398   | 49.233   | ug/l  | 99       |
| 4) Vinyl Chloride            | 2.202     | 62    | 123461   | 52.773   | ug/l  | 97       |
| 5) Bromomethane              | 2.592     | 94    | 85045    | 50.298   | ug/l  | 99       |
| 6) Chloroethane              | 2.732     | 64    | 88880    | 57.489   | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 3.055     | 101   | 171011   | 52.371   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.458     | 74    | 50019    | 55.274   | ug/l  | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.811     | 101   | 94877    | 50.891   | ug/l  | 99       |
| 10) Methyl Iodide            | 4.006     | 142   | 106395   | 56.142   | ug/l  | 99       |
| 11) Tert butyl alcohol       | 4.854     | 59    | 31299    | 277.757  | ug/l  | 98       |
| 12) 1,1-Dichloroethene       | 3.793     | 96    | 86460    | 50.867   | ug/l  | 92       |
| 13) Acrolein                 | 3.653     | 56    | 3385     | 38.053   | ug/l  | 91       |
| 14) Allyl chloride           | 4.384     | 41    | 144021   | 52.432   | ug/l  | 100      |
| 15) Acrylonitrile            | 5.061     | 53    | 117855   | 305.943  | ug/l  | 98       |
| 16) Acetone                  | 3.866     | 43    | 86773    | 227.482  | ug/l  | 97       |
| 17) Carbon Disulfide         | 4.104     | 76    | 250144   | 46.959   | ug/l  | 99       |
| 18) Methyl Acetate           | 4.384     | 43    | 68846    | 81.343   | ug/l  | 98       |
| 19) Methyl tert-butyl Ether  | 5.116     | 73    | 249340   | 57.878   | ug/l  | 96       |
| 20) Methylene Chloride       | 4.616     | 84    | 106804   | 53.340   | ug/l  | 96       |
| 21) trans-1,2-Dichloroethene | 5.116     | 96    | 101130   | 53.127   | ug/l  | 99       |
| 22) Diisopropyl ether        | 6.018     | 45    | 357318   | 60.361   | ug/l  | 97       |
| 23) Vinyl Acetate            | 5.963     | 43    | 939968   | 278.230  | ug/l  | 99       |
| 24) 1,1-Dichloroethane       | 5.915     | 63    | 198056   | 56.688   | ug/l  | 99       |
| 25) 2-Butanone               | 6.896     | 43    | 144091   | 273.075  | ug/l  | 99       |
| 26) 2,2-Dichloropropane      | 6.884     | 77    | 143110   | 44.518   | ug/l  | 99       |
| 27) cis-1,2-Dichloroethene   | 6.890     | 96    | 123050   | 56.902   | ug/l  | 97       |
| 28) Bromochloromethane       | 7.244     | 49    | 89233    | 60.921   | ug/l  | 100      |
| 29) Tetrahydrofuran          | 7.262     | 42    | 98893    | 303.584  | ug/l  | 99       |
| 30) Chloroform               | 7.420     | 83    | 213290   | 58.791   | ug/l  | 98       |
| 31) Cyclohexane              | 7.707     | 56    | 151769   | 46.336   | ug/l  | 97       |
| 32) 1,1,1-Trichloroethane    | 7.616     | 97    | 180118   | 54.222   | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 7.835     | 75    | 136952   | 49.532   | ug/l  | 100      |
| 37) Ethyl Acetate            | 6.982     | 43    | 67653    | 55.359   | ug/l  | 98       |
| 38) Carbon Tetrachloride     | 7.817     | 117   | 159831   | 50.263   | ug/l  | 97       |
| 39) Methylcyclohexane        | 9.109     | 83    | 159491   | 47.026   | ug/l  | 99       |
| 40) Benzene                  | 8.079     | 78    | 442305   | 54.304   | ug/l  | 98       |

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 ALS Vial : 21 Sample Multiplier: 1

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 MSVOA\_Y  
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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.225  | 41   | 35592    | 53.488   | ug/l # | 94       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 130175   | 57.130   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.195  | 43   | 131585   | 55.466   | ug/l # | 88       |
| 44) Trichloroethene           | 8.865  | 130  | 107533   | 52.246   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 111214   | 57.371   | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 61800    | 57.297   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.426  | 83   | 165401   | 57.744   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.219  | 41   | 63529    | 58.317   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 12980    | 1226.058 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 366300   | 299.252  | ug/l   | 100      |
| 52) Toluene                   | 10.170 | 92   | 282414   | 54.998   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 138585   | 54.916   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 164523   | 54.911   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.572 | 97   | 81645    | 57.867   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 107575   | 59.783   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 141158   | 57.725   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 282587   | 340.199  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.761 | 43   | 238786   | 295.026  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.914 | 129  | 113230   | 58.539   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.017 | 107  | 76177    | 57.207   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.646 | 164  | 114323   | 56.836   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 311722   | 53.365   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 113606   | 55.009   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.517 | 91   | 539719   | 52.641   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.627 | 106  | 413446   | 106.217  | ug/l   | 100      |
| 69) o-Xylene                  | 11.956 | 106  | 196472   | 54.767   | ug/l   | 98       |
| 70) Styrene                   | 11.968 | 104  | 340176   | 57.159   | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 65116    | 56.403   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 515223   | 49.320   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 115322   | 50.831   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 92604    | 50.234   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 70820m   | 52.995   | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 123594   | 50.571   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.596 | 91   | 620007   | 48.869   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 365543   | 50.389   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 428203   | 50.439   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 26511    | 45.098   | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 376441   | 50.111   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 376824   | 49.756   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.041 | 105  | 429689   | 50.977   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 556991   | 49.430   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.291 | 119  | 465053   | 50.096   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 244436   | 50.245   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 238696   | 50.170   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.621 | 91   | 425141   | 49.595   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.883 | 117  | 98721    | 49.848   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 219610   | 52.669   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 14175    | 51.332   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 116078   | 50.969   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 72273    | 50.625   | ug/l   | 100      |
| 95) Naphthalene               | 15.145 | 128  | 199427   | 51.600   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 100593   | 52.517   | ug/l   | 99       |

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

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