

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071323\  
 Data File : VY014622.D  
 Acq On : 13 Jul 2023 09:57  
 Operator : SY/MD  
 Sample : VSTDIC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC020

Quant Time: Jul 14 01:59:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 01:52:00 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.783  | 168  | 349233   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 571391   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 502692   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 248480   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 81092    | 20.377   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 40.760%# |
| 35) Dibromofluoromethane    | 7.716  | 113   | 75173    | 20.667   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 41.340%# |
| 50) Toluene-d8              | 10.179 | 98    | 280801   | 20.940   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 41.880%# |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 107198   | 20.848   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 41.700%  |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.900 | 85  | 71107  | 24.991  | ug/l   | 99  |
| 3) Chloromethane             | 2.107 | 50  | 74013  | 23.141  | ug/l   | 99  |
| 4) Vinyl Chloride            | 2.247 | 62  | 80714  | 22.581  | ug/l   | 97  |
| 5) Bromomethane              | 2.625 | 94  | 48771  | 20.646  | ug/l   | 95  |
| 6) Chloroethane              | 2.778 | 64  | 48669  | 21.798  | ug/l   | 96  |
| 7) Trichlorofluoromethane    | 3.113 | 101 | 130422 | 21.725  | ug/l   | 100 |
| 8) Diethyl Ether             | 3.521 | 74  | 46317  | 20.736  | ug/l   | 92  |
| 9) 1,1,2-Trichlorotrifluo... | 3.893 | 101 | 79086  | 21.493  | ug/l   | 95  |
| 10) Methyl Iodide            | 4.082 | 142 | 65257  | 18.306  | ug/l   | 96  |
| 11) Tert butyl alcohol       | 4.942 | 59  | 122445 | 139.135 | ug/l # | 94  |
| 12) 1,1-Dichloroethene       | 3.863 | 96  | 74300  | 21.605  | ug/l   | 94  |
| 13) Acrolein                 | 3.722 | 56  | 41497  | 99.764  | ug/l   | 99  |
| 14) Allyl chloride           | 4.472 | 41  | 128535 | 21.050  | ug/l   | 95  |
| 15) Acrylonitrile            | 5.155 | 53  | 127246 | 103.307 | ug/l   | 99  |
| 16) Acetone                  | 3.942 | 43  | 124538 | 98.753  | ug/l   | 95  |
| 17) Carbon Disulfide         | 4.186 | 76  | 219918 | 22.336  | ug/l   | 98  |
| 18) Methyl Acetate           | 4.472 | 43  | 100948 | 20.859  | ug/l   | 93  |
| 19) Methyl tert-butyl Ether  | 5.210 | 73  | 228726 | 20.474  | ug/l   | 99  |
| 20) Methylene Chloride       | 4.704 | 84  | 92949  | 20.169  | ug/l   | 94  |
| 21) trans-1,2-Dichloroethene | 5.210 | 96  | 82997  | 21.266  | ug/l   | 98  |
| 22) Diisopropyl ether        | 6.118 | 45  | 254841 | 20.528  | ug/l   | 91  |
| 23) Vinyl Acetate            | 6.051 | 43  | 759201 | 102.191 | ug/l   | 96  |
| 24) 1,1-Dichloroethane       | 6.009 | 63  | 147752 | 20.800  | ug/l   | 98  |
| 25) 2-Butanone               | 6.978 | 43  | 188075 | 101.939 | ug/l   | 95  |
| 26) 2,2-Dichloropropane      | 6.972 | 77  | 141361 | 20.881  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene   | 6.978 | 96  | 94349  | 20.769  | ug/l   | 98  |
| 28) Bromochloromethane       | 7.332 | 49  | 67305  | 22.000  | ug/l   | 96  |
| 29) Tetrahydrofuran          | 7.344 | 42  | 117419 | 103.357 | ug/l   | 94  |
| 30) Chloroform               | 7.502 | 83  | 149797 | 20.450  | ug/l   | 98  |
| 31) Cyclohexane              | 7.777 | 56  | 142043 | 21.501  | ug/l   | 94  |
| 32) 1,1,1-Trichloroethane    | 7.697 | 97  | 136324 | 20.678  | ug/l   | 99  |
| 36) 1,1-Dichloropropene      | 7.917 | 75  | 117540 | 21.608  | ug/l   | 99  |
| 37) Ethyl Acetate            | 7.069 | 43  | 77188  | 20.610  | ug/l # | 95  |
| 38) Carbon Tetrachloride     | 7.892 | 117 | 121595 | 21.147  | ug/l   | 97  |
| 39) Methylcyclohexane        | 9.179 | 83  | 155205 | 21.901  | ug/l   | 97  |
| 40) Benzene                  | 8.155 | 78  | 330956 | 21.393  | ug/l   | 100 |

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 MSVOA\_Y  
 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 01:52:00 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.338  | 41   | 107673   | 54.367  | ug/l # | 28       |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 100600   | 20.535  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 148162   | 20.768  | ug/l   | 96       |
| 44) Trichloroethene           | 8.935  | 130  | 91840    | 21.218  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 85156    | 21.080  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 50962    | 20.795  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 118309   | 20.483  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 68569    | 21.360  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 17058    | 426.876 | ug/l # | 43       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 390047   | 104.132 | ug/l   | 94       |
| 52) Toluene                   | 10.240 | 92   | 209800   | 21.193  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 130785   | 20.701  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 143012   | 20.815  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 70967    | 20.789  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 107686   | 20.661  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 122180   | 20.751  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 262058   | 107.907 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.831 | 43   | 286444   | 104.864 | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.983 | 129  | 86127    | 20.578  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 70904    | 20.821  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 87401    | 21.618  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 222729   | 20.792  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 84467    | 20.913  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 405580   | 20.970  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.697 | 106  | 311690   | 42.218  | ug/l   | 97       |
| 69) o-Xylene                  | 12.026 | 106  | 151740   | 21.101  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 254598   | 21.006  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 56813    | 20.752  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 404975   | 20.815  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 133172   | 20.437  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 88914    | 20.040  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 117792   | 37.043  | ug/l # | 100      |
| 77) Bromobenzene              | 12.605 | 156  | 91184    | 20.531  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.666 | 91   | 488521   | 20.837  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 275664   | 20.414  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 335943   | 20.675  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 33247    | 20.512  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 286924   | 20.631  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 297424   | 20.635  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 332296   | 20.839  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 442879   | 20.946  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 360921   | 20.907  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 179367   | 20.751  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 177162   | 20.454  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 353913   | 21.072  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.958 | 117  | 73758    | 20.801  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 161544   | 20.399  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 16939    | 19.963  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 103146   | 20.518  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 58623    | 21.221  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 233720   | 19.956  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 90238    | 20.197  | ug/l   | 98       |

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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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