

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090721\  
 Data File : VY005939.D  
 Acq On : 07 Sep 2021 13:20  
 Operator : SY/MD  
 Sample : VY0907SBS01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0907SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/8/2021 7:11:10 PM

Quant Time: Sep 07 13:52:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y083121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 01 05:32:43 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| -----                        |        |       |          |          |       |          |
| Internal Standards           |        |       |          |          |       |          |
| 1) Pentafluorobenzene        | 7.795  | 168   | 237782   | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697  | 114   | 333192   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.496 | 117   | 309786   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 168398   | 50.000   | ug/l  | 0.00     |
|                              |        |       |          |          |       |          |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.149  | 65    | 111379   | 46.482   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =     | 92.960%  |
| 35) Dibromofluoromethane     | 7.722  | 113   | 100292   | 53.598   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =     | 107.200% |
| 50) Toluene-d8               | 10.185 | 98    | 416025   | 52.976   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =     | 105.960% |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 141054   | 53.492   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =     | 106.980% |
|                              |        |       |          |          |       |          |
| Target Compounds             | Qvalue |       |          |          |       |          |
| 2) Dichlorodifluoromethane   | 1.906  | 85    | 47443    | 22.346   | ug/l  | 99       |
| 3) Chloromethane             | 2.119  | 50    | 42798    | 19.033   | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.259  | 62    | 57062    | 19.523   | ug/l  | 99       |
| 5) Bromomethane              | 2.644  | 94    | 42046    | 21.321   | ug/l  | 98       |
| 6) Chloroethane              | 2.796  | 64    | 31738    | 18.160   | ug/l  | 95       |
| 7) Trichlorofluoromethane    | 3.131  | 101   | 77260    | 20.694   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.540  | 74    | 25695    | 20.218   | ug/l  | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905  | 101   | 42510    | 21.145   | ug/l  | 97       |
| 10) Methyl Iodide            | 4.101  | 142   | 45866    | 18.154   | ug/l  | 96       |
| 11) Tert butyl alcohol       | 4.960  | 59    | 30910    | 65.599   | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 3.881  | 96    | 41908    | 20.532   | ug/l  | 94       |
| 13) Acrolein                 | 3.735  | 56    | 10199    | 112.750  | ug/l  | 94       |
| 14) Allyl chloride           | 4.491  | 41    | 62880    | 18.318   | ug/l  | 96       |
| 15) Acrylonitrile            | 5.174  | 53    | 60522    | 94.165   | ug/l  | 99       |
| 16) Acetone                  | 3.954  | 43    | 54977    | 89.980   | ug/l  | 95       |
| 17) Carbon Disulfide         | 4.204  | 76    | 131179   | 20.121   | ug/l  | 100      |
| 18) Methyl Acetate           | 4.485  | 43    | 29066    | 17.134   | ug/l  | 97       |
| 19) Methyl tert-butyl Ether  | 5.228  | 73    | 118890   | 19.402   | ug/l  | 94       |
| 20) Methylene Chloride       | 4.729  | 84    | 58803    | 22.423   | ug/l  | 94       |
| 21) trans-1,2-Dichloroethene | 5.228  | 96    | 46768    | 20.535   | ug/l  | 96       |
| 22) Diisopropyl ether        | 6.125  | 45    | 128286   | 18.393   | ug/l  | 96       |
| 23) Vinyl Acetate            | 6.070  | 43    | 390575   | 92.278   | ug/l  | 98       |
| 24) 1,1-Dichloroethane       | 6.027  | 63    | 74639    | 18.760   | ug/l  | 99       |
| 25) 2-Butanone               | 6.996  | 43    | 78480    | 90.923   | ug/l  | 96       |
| 26) 2,2-Dichloropropane      | 6.990  | 77    | 71725    | 19.269   | ug/l  | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990  | 96    | 51717    | 20.209   | ug/l  | 94       |
| 28) Bromochloromethane       | 7.338  | 49    | 27597    | 16.826   | ug/l  | 86       |
| 29) Tetrahydrofuran          | 7.350  | 42    | 50627    | 90.523   | ug/l  | 96       |
| 30) Chloroform               | 7.515  | 83    | 80525    | 19.724   | ug/l  | 98       |
| 31) Cyclohexane              | 7.789  | 56    | 75331    | 18.639   | ug/l  | # 90     |
| 32) 1,1,1-Trichloroethane    | 7.710  | 97    | 75798    | 19.940   | ug/l  | 96       |
| 36) 1,1-Dichloropropene      | 7.923  | 75    | 61864    | 19.720   | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.082  | 43    | 34460    | 18.342   | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 7.905  | 117   | 70622    | 20.769   | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.185  | 83    | 80390    | 20.232   | ug/l  | 97       |
| 40) Benzene                  | 8.167  | 78    | 178344   | 20.122   | ug/l  | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Manual Integrations  
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MMDadoda  
 9/8/2021 7:11:10 PM

Quant Time: Sep 07 13:52:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y083121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 01 05:32:43 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 16647    | 15.912  | ug/l # | 60       |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 53935    | 18.734  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 63194    | 18.519  | ug/l   | 96       |
| 44) Trichloroethene           | 8.947  | 130  | 53006    | 21.326  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 43331    | 19.925  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 25700    | 20.535  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.502  | 83   | 62510    | 20.553  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 29092    | 18.549  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 6820     | 395.691 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 170805   | 92.898  | ug/l   | 97       |
| 52) Toluene                   | 10.246 | 92   | 116863   | 20.459  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 67179    | 19.920  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 74927    | 20.249  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 37820    | 21.099  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 51820    | 19.972  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 63261    | 20.356  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 132280   | 98.770  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.837 | 43   | 122115   | 95.067  | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.990 | 129  | 47296    | 21.491  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 36208    | 21.205  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.721 | 164  | 55283    | 21.795  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 128833   | 20.727  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 48735    | 20.944  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 225633   | 20.306  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 177871   | 40.594  | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 84112    | 20.447  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 143774   | 20.489  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 33850    | 22.065  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 225731   | 20.111  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 58546    | 18.181  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 42690    | 19.985  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 30122m   | 19.111  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 59302    | 20.976  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 270945   | 20.198  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 151626   | 20.304  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 193572   | 20.584  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 16382    | 19.767  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 157053   | 20.046  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 167711   | 20.403  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 188162   | 20.172  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 247107   | 20.397  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 214828   | 20.465  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 114566   | 20.827  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 115791   | 21.073  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 189465   | 20.173  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 38900    | 20.420  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 103210   | 21.160  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 7879     | 19.667  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 72515    | 22.025  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 47192    | 22.251  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 133709   | 21.138  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 63126    | 21.961  | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

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Quant Time: Sep 07 13:52:17 2021  
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Quant Title : SW846 8260  
QLast Update : Wed Sep 01 05:32:43 2021  
Response via : Initial Calibration

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

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

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