

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022122\  
 Data File : VY007565.D  
 Acq On : 21 Feb 2022 12:55  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/04/2022  
 Supervised By :Semsettin Yesilyurt 03/04/2022

Quant Time: Feb 21 14:20:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 14:18:18 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 120127     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 185358     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 166475     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 76436      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 56355      | 43.335  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 86.680% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 57814      | 49.648  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.300% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 197964     | 45.575  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 91.160% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 65819      | 44.595  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 89.180% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 67448      | 50.603  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 53607      | 41.257  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.253          | 62   | 57962      | 43.478  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 42947      | 46.022  | ug/l   | 99       |
| 6) Chloroethane              | 2.796          | 64   | 37085      | 46.198  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 134372     | 52.430  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.534          | 74   | 32085      | 44.381  | ug/l   | 63       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 65623      | 47.563  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.094          | 142  | 83399      | 48.702  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.954          | 59   | 23759      | 230.417 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 57258      | 44.925  | ug/l # | 79       |
| 13) Acrolein                 | 3.729          | 56   | 13933      | 139.429 | ug/l   | 97       |
| 14) Allyl chloride           | 4.478          | 41   | 59841      | 34.696  | ug/l # | 73       |
| 15) Acrylonitrile            | 5.161          | 53   | 59785      | 191.977 | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 64144      | 193.825 | ug/l # | 85       |
| 17) Carbon Disulfide         | 4.198          | 76   | 146212     | 40.380  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.478          | 43   | 24718      | 34.178  | ug/l # | 75       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 154755     | 43.668  | ug/l # | 86       |
| 20) Methylene Chloride       | 4.716          | 84   | 59122      | 41.877  | ug/l # | 75       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 57693      | 41.843  | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.125          | 45   | 113940     | 31.593  | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.064          | 43   | 404513     | 174.241 | ug/l # | 83       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 92110      | 39.842  | ug/l   | 96       |
| 25) 2-Butanone               | 6.984          | 43   | 70921      | 173.179 | ug/l # | 67       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 105035     | 44.644  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 66744      | 43.179  | ug/l   | 82       |
| 28) Bromochloromethane       | 7.338          | 49   | 29133      | 33.714  | ug/l # | 47       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 40608      | 167.417 | ug/l # | 65       |
| 30) Chloroform               | 7.508          | 83   | 115649     | 45.362  | ug/l   | 97       |
| 31) Cyclohexane              | 7.783          | 56   | 74670      | 33.686  | ug/l   | 86       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 115165     | 47.305  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 79776      | 43.486  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.076          | 43   | 30760      | 37.650  | ug/l # | 90       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 108728     | 50.809  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.185          | 83   | 99208      | 41.904  | ug/l # | 81       |
| 40) Benzene                  | 8.161          | 78   | 207408     | 41.343  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022122\  
 Data File : VY007565.D  
 Acq On : 21 Feb 2022 12:55  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/04/2022  
 Supervised By :Semsettin Yesilyurt 03/04/2022

Quant Time: Feb 21 14:20:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 14:18:18 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 14696m   | 28.254  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 71090    | 45.474  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 64141    | 38.464  | ug/l # | 86       |
| 44) Trichloroethene           | 8.941  | 130  | 69658    | 47.881  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 47714    | 40.196  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 35877    | 47.038  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 88026    | 47.820  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.289  | 41   | 26246    | 35.717  | ug/l # | 60       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 7362     | 901.536 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 155777   | 188.849 | ug/l # | 85       |
| 52) Toluene                   | 10.246 | 92   | 142314   | 43.902  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 83602    | 44.084  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 92436    | 43.718  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 45258    | 45.217  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 57095    | 42.974  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 74256    | 43.457  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 142114   | 205.930 | ug/l # | 84       |
| 59) 2-Hexanone                | 10.831 | 43   | 112333   | 190.554 | ug/l   | 87       |
| 60) Dibromochloromethane      | 10.983 | 129  | 65766    | 51.141  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 47301    | 46.965  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 63477    | 48.834  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 160594   | 45.155  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 64969    | 47.868  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 288522   | 43.680  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 218480   | 87.207  | ug/l   | 100      |
| 69) o-Xylene                  | 12.026 | 106  | 105005   | 44.215  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 172621   | 44.218  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 39406    | 51.864  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 292599   | 44.522  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 54848    | 37.700  | ug/l # | 85       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 47408    | 42.243  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 38240m   | 43.857  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 66441    | 46.544  | ug/l   | 86       |
| 78) n-propylbenzene           | 12.672 | 91   | 338148   | 43.066  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 185779   | 42.901  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 246509   | 45.211  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 16627    | 40.917  | ug/l # | 87       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 191888   | 43.180  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 221392   | 46.258  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 244381   | 46.077  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 319252   | 45.489  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 267834   | 46.139  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 128127   | 46.316  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 128234   | 46.560  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 249028   | 45.328  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.958 | 117  | 54645    | 48.713  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 114987   | 46.894  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 9225     | 47.222  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 77784    | 52.137  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 47764    | 54.736  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 155551   | 48.114  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 66828    | 51.758  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022122\  
Data File : VY007565.D  
Acq On : 21 Feb 2022 12:55  
Operator : SY/MD  
Sample : VSTDICCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 03/04/2022  
Supervised By :Semsettin Yesilyurt 03/04/2022

Quant Time: Feb 21 14:20:46 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 21 14:18:18 2022  
Response via : Initial Calibration

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

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

