

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011623\  
 Data File : VY012197.D  
 Acq On : 16 Jan 2023 13:48  
 Operator : KP/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 01/17/2023  
 Supervised By :Mahesh Dadoda 01/17/2023

Quant Time: Jan 16 14:05:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 16 13:57:37 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 191097     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 290797     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 264349     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 135964     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 78185      | 36.411  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 72.820% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 70070      | 36.660  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 73.320% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 258797     | 34.304  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 68.600% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 96876      | 36.737  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 73.480% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 71105      | 41.565  | ug/l   | 100      |
| 3) Chloromethane             | 2.113          | 50   | 70310      | 44.752  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 83041      | 44.711  | ug/l   | 98       |
| 5) Bromomethane              | 2.650          | 94   | 63798      | 44.905  | ug/l   | 96       |
| 6) Chloroethane              | 2.796          | 64   | 54875      | 44.596  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 160880     | 43.481  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.528          | 74   | 49618      | 43.800  | ug/l   | 81       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 77841      | 40.860  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.095          | 142  | 130616     | 50.576  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 44074      | 138.287 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 83711      | 44.821  | ug/l   | 92       |
| 13) Acrolein                 | 3.729          | 56   | 15519      | 111.938 | ug/l   | 99       |
| 14) Allyl chloride           | 4.479          | 41   | 103883     | 41.261  | ug/l # | 83       |
| 15) Acrylonitrile            | 5.161          | 53   | 111889     | 210.223 | ug/l   | 99       |
| 16) Acetone                  | 3.942          | 43   | 147434     | 291.878 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.198          | 76   | 256609     | 48.728  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.479          | 43   | 57492      | 39.567  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 244618     | 44.499  | ug/l   | 93       |
| 20) Methylene Chloride       | 4.716          | 84   | 108941     | 41.422  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 94558      | 45.754  | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.119          | 45   | 209847     | 40.517  | ug/l # | 90       |
| 23) Vinyl Acetate            | 6.058          | 43   | 672550     | 214.587 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 145139     | 42.129  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 150321     | 225.559 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 155087     | 41.729  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 104740     | 44.373  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.338          | 49   | 30470      | 34.984  | ug/l # | 73       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 81443      | 209.361 | ug/l # | 83       |
| 30) Chloroform               | 7.509          | 83   | 171905     | 43.774  | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 120988     | 39.190  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 169110     | 44.336  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 123810     | 42.696  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 57067      | 36.754  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 160502     | 43.608  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.185          | 83   | 149602     | 43.187  | ug/l   | 94       |
| 40) Benzene                  | 8.161          | 78   | 359633     | 42.560  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011623\  
 Data File : VY012197.D  
 Acq On : 16 Jan 2023 13:48  
 Operator : KP/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 01/17/2023  
 Supervised By :Mahesh Dadoda 01/17/2023

Quant Time: Jan 16 14:05:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 16 13:57:37 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 35041m   | 41.495  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 118518   | 44.301  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 107287   | 41.232  | ug/l # | 94       |
| 44) Trichloroethene           | 8.941  | 130  | 108272   | 43.882  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 75802    | 40.261  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 51976    | 43.853  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 129678   | 43.029  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.295  | 41   | 51213    | 43.938  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 14993    | 913.493 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 288706   | 208.518 | ug/l   | 96       |
| 52) Toluene                   | 10.246 | 92   | 244243   | 43.668  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 138171   | 44.071  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 147746   | 43.560  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 74005    | 43.231  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 100550   | 44.839  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 120715   | 42.729  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 157504   | 192.021 | ug/l # | 89       |
| 59) 2-Hexanone                | 10.831 | 43   | 229234   | 235.786 | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.984 | 129  | 99798    | 44.215  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 71778    | 43.809  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 119318   | 46.076  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 261736   | 43.353  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 101825   | 43.685  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.593 | 91   | 473326   | 43.862  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 375824   | 88.796  | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 179706   | 44.593  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 303772   | 44.375  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 65777    | 44.414  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 476002   | 44.244  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 97264    | 43.792  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 76529    | 42.287  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 68816m   | 44.328  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 115869   | 45.156  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.672 | 91   | 547297   | 43.577  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 312943   | 43.560  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 410117   | 44.445  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 30675    | 43.882  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 325814   | 43.360  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 350229   | 43.319  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 411062   | 45.003  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 503621   | 43.338  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 440685   | 43.772  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 226393   | 44.015  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 223234   | 43.447  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.697 | 91   | 380743   | 43.641  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 78888    | 42.237  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 201950   | 44.072  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 15833    | 44.018  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 126784   | 44.379  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 74231    | 43.065  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 262749   | 46.473  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 108472   | 43.671  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011623\  
Data File : VY012197.D  
Acq On : 16 Jan 2023 13:48  
Operator : KP/MD  
Sample : VSTDICCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 01/17/2023  
Supervised By :Mahesh Dadoda 01/17/2023

Quant Time: Jan 16 14:05:34 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 16 13:57:37 2023  
Response via : Initial Calibration

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

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

