

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122223\  
 Data File : VY016831.D  
 Acq On : 23 Dec 2023 00:55  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 23 01:13:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/26/2023  
 Supervised By :Semsettin Yesilyurt 12/26/2023

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.826          | 168  | 139340     | 50.000  | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene      | 8.722          | 114  | 245820     | 50.000  | ug/l   | 0.02     |
| 63) Chlorobenzene-d5         | 11.514         | 117  | 214570     | 50.000  | ug/l   | 0.01     |
| 72) 1,4-Dichlorobenzene-d4   | 13.446         | 152  | 93010      | 50.000  | ug/l   | 0.01     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.173          | 65   | 60007      | 47.174  | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.340% |        |          |
| 35) Dibromofluoromethane     | 7.752          | 113  | 62215      | 44.183  | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 88.360% |        |          |
| 50) Toluene-d8               | 10.209         | 98   | 227205     | 44.760  | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 89.520% |        |          |
| 62) 4-Bromofluorobenzene     | 12.502         | 95   | 72955      | 44.300  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 88.600% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 50764      | 42.631  | ug/l   | 100      |
| 3) Chloromethane             | 2.131          | 50   | 90805      | 49.610  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.272          | 62   | 104731     | 50.657  | ug/l   | 99       |
| 5) Bromomethane              | 2.680          | 94   | 77175      | 52.410  | ug/l   | 93       |
| 6) Chloroethane              | 2.820          | 64   | 73444      | 52.425  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.156          | 101  | 114068     | 47.362  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.558          | 74   | 41096      | 53.340  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.930          | 101  | 70723      | 47.869  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.131          | 142  | 77830      | 50.554  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.985          | 59   | 26765      | 256.628 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.906          | 96   | 68600      | 52.150  | ug/l   | 98       |
| 13) Acrolein                 | 3.759          | 56   | 19030      | 236.486 | ug/l   | 99       |
| 14) Allyl chloride           | 4.521          | 41   | 113731     | 56.447  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.210          | 53   | 95376      | 292.317 | ug/l   | 100      |
| 16) Acetone                  | 3.979          | 43   | 80153      | 233.023 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.235          | 76   | 190022     | 53.090  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.515          | 43   | 90493      | 67.319  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.265          | 73   | 184399     | 54.480  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.759          | 84   | 87858      | 50.962  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.265          | 96   | 82418      | 54.936  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.161          | 45   | 260560     | 57.162  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.100          | 43   | 584837     | 271.277 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.064          | 63   | 153353     | 56.005  | ug/l   | 99       |
| 25) 2-Butanone               | 7.027          | 43   | 120654     | 254.768 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.021          | 77   | 121947     | 51.034  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.027          | 96   | 95453      | 55.282  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.374          | 49   | 58979      | 54.420  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.387          | 42   | 77715      | 300.111 | ug/l   | 97       |
| 30) Chloroform               | 7.539          | 83   | 156257     | 55.744  | ug/l   | 99       |
| 31) Cyclohexane              | 7.819          | 56   | 115041     | 47.203  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.740          | 97   | 128862     | 52.371  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.947          | 75   | 113099     | 50.101  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.112          | 43   | 53540      | 55.333  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.935          | 117  | 108489     | 48.566  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.216          | 83   | 127024     | 48.736  | ug/l   | 98       |
| 40) Benzene                  | 8.191          | 78   | 350146     | 53.301  | ug/l   | 100      |

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Manual Integrations  
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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.344  | 41   | 23874    | 46.472   | ug/l # | 75       |
| 42) 1,2-Dichloroethane        | 8.271  | 62   | 92531    | 53.990   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.301  | 43   | 99961    | 53.191   | ug/l   | 99       |
| 44) Trichloroethene           | 8.972  | 130  | 86913    | 51.836   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.246  | 63   | 87192    | 52.912   | ug/l   | 98       |
| 46) Dibromomethane            | 9.331  | 93   | 45691    | 53.673   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.526  | 83   | 118438   | 52.786   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.319  | 41   | 57162    | 54.730   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.325  | 88   | 8853     | 1071.461 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.093 | 43   | 280580   | 280.217  | ug/l   | 99       |
| 52) Toluene                   | 10.270 | 92   | 212260   | 53.918   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.490 | 75   | 110261   | 53.893   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.953  | 75   | 132401   | 53.651   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.673 | 97   | 64257    | 52.905   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.532 | 69   | 60142    | 56.311   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.813 | 76   | 111005   | 53.807   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.807  | 63   | 179809   | 312.955  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.855 | 43   | 189428   | 253.713  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.008 | 129  | 75806    | 53.953   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.112 | 107  | 59075    | 54.235   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.746 | 164  | 68742    | 51.573   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.538 | 112  | 217463   | 51.584   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.611 | 131  | 81245    | 51.221   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.618 | 91   | 407067   | 52.461   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.727 | 106  | 305749   | 106.707  | ug/l   | 99       |
| 69) o-Xylene                  | 12.050 | 106  | 140050   | 53.278   | ug/l   | 98       |
| 70) Styrene                   | 12.069 | 104  | 210050   | 54.001   | ug/l   | 99       |
| 71) Bromoform                 | 12.233 | 173  | 41298    | 52.225   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.349 | 105  | 382325   | 52.780   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.166 | 43   | 77172    | 50.764   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.605 | 83   | 75227    | 51.969   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.654 | 75   | 57190m   | 55.623   | ug/l   |          |
| 77) Bromobenzene              | 12.630 | 156  | 81181    | 51.371   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.691 | 91   | 461016   | 52.529   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.776 | 91   | 252872   | 52.070   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.831 | 105  | 306009   | 53.367   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.398 | 75   | 21771    | 49.727   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.873 | 91   | 260082   | 52.203   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.093 | 119  | 259647   | 52.058   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.142 | 105  | 306002   | 54.120   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.276 | 105  | 385234   | 52.146   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.392 | 119  | 322598   | 52.435   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.386 | 146  | 158171   | 51.216   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.465 | 146  | 154899   | 51.366   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.715 | 91   | 307851   | 52.345   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.983 | 117  | 66284    | 51.740   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.757 | 146  | 137502   | 52.263   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.373 | 75   | 9537     | 50.826   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.025 | 180  | 70776    | 50.698   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.129 | 225  | 40117    | 50.594   | ug/l   | 98       |
| 95) Naphthalene               | 15.257 | 128  | 141205   | 47.203   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.446 | 180  | 62004    | 52.150   | 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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