

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071822\  
 Data File : VY009578.D  
 Acq On : 18 Jul 2022 17:20  
 Operator : KP/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY071822

Quant Time: Jul 19 04:25:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 04:22:09 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 07/19/2022  
 Supervised By :Mahesh Dadoda 07/19/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 212882     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 317338     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 283209     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 146912     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130          | 65   | 99362      | 49.352   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 98.700%  |        |          |
| 35) Dibromofluoromethane     | 7.710          | 113  | 99496      | 49.767   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.540%  |        |          |
| 50) Toluene-d8               | 10.173         | 98   | 386525     | 50.292   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 125 |      | Recovery = | 100.580% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 124479     | 49.984   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 146 |      | Recovery = | 99.960%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 90036      | 48.200   | ug/l   | 99       |
| 3) Chloromethane             | 2.107          | 50   | 129323     | 46.718   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.241          | 62   | 136321     | 47.092   | ug/l   | 99       |
| 5) Bromomethane              | 2.638          | 94   | 93059      | 47.496   | ug/l   | 96       |
| 6) Chloroethane              | 2.784          | 64   | 83083      | 47.249   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 168589     | 49.148   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.522          | 74   | 55815      | 49.732   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.881          | 101  | 99100      | 49.405   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.076          | 142  | 126982     | 47.657   | ug/l # | 88       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 45163      | 222.231  | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.863          | 96   | 95335      | 48.698   | ug/l   | 81       |
| 13) Acrolein                 | 3.723          | 56   | 33569      | 233.219  | ug/l   | 99       |
| 14) Allyl chloride           | 4.466          | 41   | 152920     | 50.496   | ug/l # | 91       |
| 15) Acrylonitrile            | 5.149          | 53   | 140703     | 253.843  | ug/l   | 98       |
| 16) Acetone                  | 3.936          | 43   | 134273     | 263.635  | ug/l # | 86       |
| 17) Carbon Disulfide         | 4.180          | 76   | 300250     | 49.335   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.466          | 43   | 65305      | 45.679   | ug/l # | 90       |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 264136     | 51.193   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.698          | 84   | 132269     | 52.381   | ug/l   | 85       |
| 21) trans-1,2-Dichloroethene | 5.204          | 96   | 110230     | 49.748   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.106          | 45   | 332355     | 51.395   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.045          | 43   | 1081313    | 265.020  | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 187098     | 50.093   | ug/l   | 99       |
| 25) 2-Butanone               | 6.978          | 43   | 195408     | 263.024  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 161523     | 48.274   | ug/l   | 93       |
| 27) cis-1,2-Dichloroethene   | 6.972          | 96   | 121193     | 49.471   | ug/l   | 87       |
| 28) Bromochloromethane       | 7.326          | 49   | 83450      | 52.146   | ug/l # | 85       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 126316     | 258.970  | ug/l   | 92       |
| 30) Chloroform               | 7.496          | 83   | 188300     | 49.284   | ug/l   | 99       |
| 31) Cyclohexane              | 7.777          | 56   | 170080     | 47.909   | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.691          | 97   | 168888     | 49.281   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 149521     | 50.611   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.070          | 43   | 85267      | 51.858   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 154358     | 49.912   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.179          | 83   | 187800     | 51.555   | ug/l   | 91       |
| 40) Benzene                  | 8.155          | 78   | 427012     | 49.397   | ug/l   | 97       |

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 38845m   | 49.233   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 120845   | 49.832   | ug/l   | 92       |
| 43) Isopropyl Acetate         | 8.265  | 43   | 155403   | 51.580   | ug/l # | 94       |
| 44) Trichloroethene           | 8.935  | 130  | 121827   | 49.553   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.210  | 63   | 105559   | 49.771   | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 60896    | 49.437   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.490  | 83   | 145143   | 50.251   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 72515    | 54.476   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 16880    | 1028.067 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43   | 411476   | 263.032  | ug/l   | 92       |
| 52) Toluene                   | 10.240 | 92   | 274471   | 50.125   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 150745   | 50.531   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 171470   | 50.551   | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 84907    | 48.944   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 117606   | 52.989   | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 143782   | 49.945   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 311866   | 259.086  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.825 | 43   | 289390   | 265.973  | ug/l   | 89       |
| 60) Dibromochloromethane      | 10.977 | 129  | 104664   | 49.859   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.081 | 107  | 83732    | 49.471   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 111010   | 50.085   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 287651   | 49.704   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 108541   | 50.480   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.587 | 91   | 519616   | 51.050   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.697 | 106  | 414003   | 102.200  | ug/l   | 91       |
| 69) o-Xylene                  | 12.026 | 106  | 195368   | 51.536   | ug/l   | 90       |
| 70) Styrene                   | 12.038 | 104  | 329124   | 52.199   | ug/l   | 94       |
| 71) Bromoform                 | 12.203 | 173  | 69807    | 51.446   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.325 | 105  | 510635   | 50.201   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 142334   | 52.615   | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 98711    | 48.458   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 68214m   | 48.742   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 124777   | 48.782   | ug/l   | 90       |
| 78) n-propylbenzene           | 12.666 | 91   | 622842   | 50.675   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.752 | 91   | 337827   | 49.574   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 425951   | 50.678   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 34876    | 49.138   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 349202   | 49.395   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 377827   | 50.597   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 422531   | 50.267   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 561083   | 50.679   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 478579   | 51.437   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 249536   | 49.317   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 245983   | 49.031   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.697 | 91   | 441064   | 51.906   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 88469    | 49.355   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 220241   | 49.825   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 15867    | 51.200   | ug/l   | 71       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 147005   | 52.987   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 84852    | 51.556   | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 289599   | 54.674   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 128705   | 52.812   | ug/l   | 99       |

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Manual Integrations  
APPROVED

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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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