

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021325\  
 Data File : VY021187.D  
 Acq On : 13 Feb 2025 10:45  
 Operator : SY/MD  
 Sample : VY0213SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0213SBS01

Manual Integrations  
 APPROVED

Reviewed By :Romaben Patel 02/14/2025  
 Supervised By :Mahesh Dadoda 02/14/2025

Quant Time: Feb 14 00:38:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 131836     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.622          | 114  | 205073     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 178797     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.353         | 152  | 92132      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 64070      | 47.432  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.860% |        |          |
| 35) Dibromofluoromethane     | 7.640          | 113  | 59913      | 45.587  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 91.180% |        |          |
| 50) Toluene-d8               | 10.115         | 98   | 226390     | 45.247  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 90.500% |        |          |
| 62) 4-Bromofluorobenzene     | 12.414         | 95   | 78102      | 47.781  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 95.560% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 20628      | 17.555  | ug/l   | 98       |
| 3) Chloromethane             | 2.074          | 50   | 18494      | 15.950  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.208          | 62   | 19083      | 16.351  | ug/l   | 98       |
| 5) Bromomethane              | 2.598          | 94   | 11608      | 16.093  | ug/l   | 92       |
| 6) Chloroethane              | 2.739          | 64   | 12813      | 18.443  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.068          | 101  | 40411      | 19.006  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.458          | 74   | 13003      | 19.590  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.824          | 101  | 27183      | 20.370  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.007          | 142  | 23633      | 15.941  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.872          | 59   | 10989      | 120.052 | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.799          | 96   | 22356      | 17.785  | ug/l   | 93       |
| 13) Acrolein                 | 3.659          | 56   | 12801      | 90.817  | ug/l   | 96       |
| 14) Allyl chloride           | 4.391          | 41   | 41189      | 19.442  | ug/l   | 93       |
| 15) Acrylonitrile            | 5.067          | 53   | 32323      | 116.944 | ug/l   | 100      |
| 16) Acetone                  | 3.885          | 43   | 24839      | 117.917 | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.110          | 76   | 45648      | 11.581  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.397          | 43   | 16453      | 22.250  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.128          | 73   | 71251      | 22.426  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.622          | 84   | 26129      | 19.953  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 24468      | 17.683  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.025          | 45   | 98863      | 22.640  | ug/l   | 98       |
| 23) Vinyl Acetate            | 5.970          | 43   | 269518     | 110.717 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 53775      | 21.019  | ug/l   | 97       |
| 25) 2-Butanone               | 6.896          | 43   | 42133      | 121.718 | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 50968      | 21.530  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 32234      | 20.239  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.250          | 49   | 21739      | 21.488  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.268          | 42   | 27407      | 117.009 | ug/l   | 93       |
| 30) Chloroform               | 7.427          | 83   | 57640      | 21.934  | ug/l   | 99       |
| 31) Cyclohexane              | 7.707          | 56   | 40102      | 17.406  | ug/l # | 96       |
| 32) 1,1,1-Trichloroethane    | 7.628          | 97   | 53111      | 21.738  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 36506      | 18.753  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.988          | 43   | 19440      | 22.764  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.829          | 117  | 47886      | 21.053  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.116          | 83   | 41832      | 17.568  | ug/l   | 98       |
| 40) Benzene                  | 8.085          | 78   | 113872     | 19.933  | ug/l   | 96       |

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 MSVOA\_Y  
 ClientSampleId :  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.232  | 41   | 11030    | 22.326  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.165  | 62   | 35276    | 22.260  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.207  | 43   | 39730    | 23.414  | ug/l   | 95       |
| 44) Trichloroethene           | 8.872  | 130  | 28380    | 19.229  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 28987    | 21.378  | ug/l   | 93       |
| 46) Dibromomethane            | 9.237  | 93   | 16183    | 21.556  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.433  | 83   | 45127    | 22.413  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.225  | 41   | 17120    | 22.150  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.237  | 88   | 3501     | 500.947 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.006 | 43   | 103702   | 121.532 | ug/l   | 95       |
| 52) Toluene                   | 10.176 | 92   | 73998    | 20.630  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 40207    | 22.240  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.865  | 75   | 46307    | 21.633  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.579 | 97   | 21846    | 22.472  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.445 | 69   | 28811    | 22.153  | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 37547    | 22.314  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 64759    | 104.666 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.768 | 43   | 66752    | 121.500 | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.914 | 129  | 30589    | 22.406  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 19849    | 21.798  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.652 | 164  | 25659    | 19.332  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.451 | 112  | 82947    | 20.835  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131  | 31036    | 21.936  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.524 | 91   | 146398   | 20.790  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.633 | 106  | 109851   | 41.700  | ug/l   | 97       |
| 69) o-Xylene                  | 11.963 | 106  | 51679    | 21.042  | ug/l   | 97       |
| 70) Styrene                   | 11.975 | 104  | 89233    | 21.799  | ug/l   | 98       |
| 71) Bromoform                 | 12.139 | 173  | 17880    | 22.704  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.261 | 105  | 144764   | 20.115  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.078 | 43   | 34610    | 21.997  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 26766    | 22.362  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.566 | 75   | 19552m   | 23.395  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 33774    | 20.336  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.603 | 91   | 176702   | 20.611  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.688 | 91   | 100931   | 20.555  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105  | 120012   | 20.568  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75   | 8905     | 21.741  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.786 | 91   | 103529   | 20.694  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.005 | 119  | 111321   | 20.989  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 117231   | 20.548  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.182 | 105  | 160016   | 20.960  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 136432   | 21.513  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 67395    | 21.017  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.377 | 146  | 67813    | 21.477  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.627 | 91   | 124852   | 21.580  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.889 | 117  | 28592    | 21.611  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 59373    | 21.332  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 4019     | 22.470  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 14.932 | 180  | 33067    | 21.344  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 23006    | 22.409  | ug/l   | 99       |
| 95) Naphthalene               | 15.151 | 128  | 55265    | 22.297  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 28983    | 22.480  | ug/l   | 98       |

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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

