

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022625\  
 Data File : VY021322.D  
 Acq On : 26 Feb 2025 11:22  
 Operator : SY/MD  
 Sample : VY0226SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0226SBS01

Quant Time: Feb 27 00:35:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022525S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 26 02:09:13 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025  
 Supervised By :Mahesh Dadoda 02/27/2025

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 184417     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.615          | 114  | 291138     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 254891     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 128725     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 97685      | 46.693  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 93.380% |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 90492      | 47.410  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 94.820% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 351200     | 47.609  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 95.220% |        |          |
| 62) 4-Bromofluorobenzene     | 12.407         | 95   | 117404     | 47.291  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 94.580% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 34125      | 19.517  | ug/l   | 97       |
| 3) Chloromethane             | 2.068          | 50   | 42771      | 18.941  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.202          | 62   | 42765      | 19.295  | ug/l   | 98       |
| 5) Bromomethane              | 2.592          | 94   | 28297      | 19.212  | ug/l   | 100      |
| 6) Chloroethane              | 2.732          | 64   | 26124      | 19.007  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 63673      | 19.022  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.452          | 74   | 19334      | 19.245  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 38299      | 19.763  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.007          | 142  | 37750      | 18.516  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.854          | 59   | 13942      | 86.641  | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 3.787          | 96   | 35305      | 19.026  | ug/l   | 96       |
| 13) Acrolein                 | 3.653          | 56   | 20005      | 162.231 | ug/l   | 95       |
| 14) Allyl chloride           | 4.385          | 41   | 62973      | 19.141  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.061          | 53   | 42599      | 95.903  | ug/l   | 99       |
| 16) Acetone                  | 3.872          | 43   | 38073      | 94.873  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.104          | 76   | 114721     | 18.619  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.385          | 43   | 18152      | 18.509  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.110          | 73   | 93663      | 19.105  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.610          | 84   | 40120      | 18.488  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.110          | 96   | 38871      | 19.029  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.018          | 45   | 134550     | 19.764  | ug/l   | 100      |
| 23) Vinyl Acetate            | 5.957          | 43   | 386141     | 94.917  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 73384      | 19.125  | ug/l   | 99       |
| 25) 2-Butanone               | 6.890          | 43   | 56272      | 92.910  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 66242      | 19.026  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 44795      | 19.204  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.244          | 49   | 30330      | 17.864  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 37274      | 94.152  | ug/l   | 98       |
| 30) Chloroform               | 7.421          | 83   | 75017      | 19.294  | ug/l   | 99       |
| 31) Cyclohexane              | 7.701          | 56   | 69642      | 18.881  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 67879      | 19.180  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 55184      | 19.247  | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.988          | 43   | 28035      | 19.657  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 61214      | 18.991  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.109          | 83   | 68527      | 18.897  | ug/l   | 97       |
| 40) Benzene                  | 8.079          | 78   | 163641     | 19.308  | ug/l   | 98       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Manual Integrations  
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 Supervised By :Mahesh Dadoda 02/27/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.219  | 41   | 12920m   | 16.203  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 46152    | 19.193  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.195  | 43   | 51417    | 18.626  | ug/l   | 99       |
| 44) Trichloroethene           | 8.865  | 130  | 40770    | 19.214  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 39037    | 19.139  | ug/l   | 95       |
| 46) Dibromomethane            | 9.231  | 93   | 21795    | 19.549  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.420  | 83   | 56650    | 19.056  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.219  | 41   | 25014    | 19.377  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 4576     | 369.128 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 131838   | 93.298  | ug/l   | 100      |
| 52) Toluene                   | 10.170 | 92   | 101381   | 19.255  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 51842    | 19.034  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 61986    | 19.278  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.572 | 97   | 27740    | 19.099  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 37632    | 18.751  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 49393    | 19.380  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 87093    | 90.414  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.761 | 43   | 87008    | 93.755  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.908 | 129  | 38212    | 19.318  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 25849    | 18.799  | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.646 | 164  | 36984    | 19.197  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.444 | 112  | 108578   | 18.977  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 39302    | 19.617  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.517 | 91   | 192592   | 19.003  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 147929   | 38.806  | ug/l   | 100      |
| 69) o-Xylene                  | 11.956 | 106  | 69071    | 19.342  | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 114447   | 19.262  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 21872    | 19.083  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 184435   | 19.058  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 44104    | 17.930  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 32169    | 18.835  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 20053m   | 15.563  | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 42599    | 18.925  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.596 | 91   | 226845   | 19.317  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 128526   | 19.070  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 155422   | 19.582  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 10066    | 17.364  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 133936   | 19.171  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 136788   | 19.079  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 152431   | 19.310  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 204066   | 19.486  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.291 | 119  | 167856   | 19.195  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.291 | 146  | 85257    | 19.148  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 84570    | 19.226  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.621 | 91   | 155625   | 18.911  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.883 | 117  | 34224    | 18.736  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 73256    | 18.778  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 5025     | 18.599  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 42148    | 17.702  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 27956    | 18.650  | ug/l   | 99       |
| 95) Naphthalene               | 15.151 | 128  | 68106    | 17.269  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 36072    | 17.931  | 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

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