

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102825\  
 Data File : VY023609.D  
 Acq On : 28 Oct 2025 16:09  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 10/29/2025  
 Supervised By :Mahesh Dadoda 10/29/2025

Quant Time: Oct 29 06:25:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:12:50 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 459575     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 669677     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 597400     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 325334     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 182460     | 47.478   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.960%  |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 207956     | 50.538   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 101.080% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 770122     | 50.256   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 100.520% |        |          |
| 62) 4-Bromofluorobenzene     | 12.401         | 95   | 263642     | 52.111   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 104.220% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 134983     | 40.806   | ug/l   | 98       |
| 3) Chloromethane             | 2.074          | 50   | 194580     | 43.179   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.208          | 62   | 266347     | 45.378   | ug/l   | 99       |
| 5) Bromomethane              | 2.598          | 94   | 216554     | 43.965   | ug/l   | 97       |
| 6) Chloroethane              | 2.739          | 64   | 196545     | 49.125   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 388666     | 47.691   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.458          | 74   | 104065     | 48.868   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 215764     | 51.020   | ug/l   | 100      |
| 10) Methyl Iodide            | 4.007          | 142  | 260483     | 55.328   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.854          | 59   | 54582      | 190.913  | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 202288     | 49.344   | ug/l   | 95       |
| 13) Acrolein                 | 3.653          | 56   | 20222      | 50.057   | ug/l   | 99       |
| 14) Allyl chloride           | 4.391          | 41   | 257064     | 51.452   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.061          | 53   | 205258     | 251.863  | ug/l   | 99       |
| 16) Acetone                  | 3.873          | 43   | 197358     | 215.714  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.110          | 76   | 536495     | 45.724   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.391          | 43   | 135129     | 56.304   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 496579     | 50.399   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.622          | 84   | 232265     | 46.948   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 232009     | 51.404   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.025          | 45   | 597087     | 54.028   | ug/l   | 99       |
| 23) Vinyl Acetate            | 5.964          | 43   | 1475540    | 246.670  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 391189     | 53.437   | ug/l   | 97       |
| 25) 2-Butanone               | 6.896          | 43   | 249850     | 223.689  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 349327     | 52.005   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 279805     | 53.669   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.250          | 49   | 126499     | 46.288   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 151728     | 239.549  | ug/l   | 100      |
| 30) Chloroform               | 7.427          | 83   | 436846     | 54.314   | ug/l   | 100      |
| 31) Cyclohexane              | 7.707          | 56   | 307525     | 48.104   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 383883     | 52.520   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 290011     | 53.236   | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.988          | 43   | 107007     | 49.582   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 349036     | 52.840   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.109          | 83   | 365885     | 51.584   | ug/l   | 98       |
| 40) Benzene                  | 8.085          | 78   | 928787     | 53.836   | ug/l   | 98       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.219  | 41   | 60575    | 51.896  | ug/l # | 90       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 230673   | 51.844  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 212438   | 49.364  | ug/l   | 99       |
| 44) Trichloroethene           | 8.866  | 130  | 268096   | 53.093  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 208574   | 54.735  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 127525   | 52.925  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.426  | 83   | 330048   | 54.386  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.225  | 41   | 100090   | 49.507  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 26608    | 952.429 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 572691   | 257.566 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 614897   | 54.894  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 278475   | 52.774  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 331292   | 53.196  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 172316   | 53.180  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 199300   | 53.322  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 275080   | 53.574  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 464756   | 277.570 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 389535   | 245.146 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.914 | 129  | 240990   | 53.048  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 163761   | 52.993  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 327321   | 53.064  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.438 | 112  | 684388   | 52.673  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 246608   | 53.261  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.517 | 91   | 1158480  | 55.082  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 923215   | 109.439 | ug/l   | 98       |
| 69) o-Xylene                  | 11.956 | 106  | 432559   | 54.667  | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 723042   | 55.568  | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 147021   | 51.190  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 1132822  | 52.837  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 178651   | 46.392  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 168176   | 47.959  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 124901m  | 43.515  | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 284122   | 49.848  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.590 | 91   | 1334362  | 53.782  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 759763   | 52.293  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 924627   | 53.369  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 54031    | 46.160  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 784620   | 52.437  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.993 | 119  | 858087   | 53.643  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 921863   | 53.317  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.170 | 105  | 1230726  | 53.634  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1044600  | 53.467  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 557198   | 50.201  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 541441   | 49.392  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 913478   | 53.660  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.877 | 117  | 215224   | 51.218  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 488331   | 50.183  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 26649    | 46.316  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 291832   | 48.105  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 183013   | 48.395  | ug/l   | 98       |
| 95) Naphthalene               | 15.139 | 128  | 445786   | 46.146  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 251620   | 47.885  | 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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