

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101025\  
 Data File : VY023445.D  
 Acq On : 10 Oct 2025 17:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025  
 Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 11 02:01:45 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  | 561309     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 818570     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 736445     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 394188     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 208849     | 44.495  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 89.000% |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 240518     | 47.819  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 95.640% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 911545     | 48.665  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 97.320% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 302094     | 48.850  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 97.700% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 171619     | 42.478  | ug/l   | 99       |
| 3) Chloromethane             | 2.074          | 50   | 228309     | 41.482  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.208          | 62   | 312938     | 43.653  | ug/l   | 99       |
| 5) Bromomethane              | 2.598          | 94   | 259997     | 43.218  | ug/l   | 99       |
| 6) Chloroethane              | 2.739          | 64   | 221508     | 45.330  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 450952     | 45.305  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.458          | 74   | 120219     | 46.221  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.824          | 101  | 247390     | 47.896  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 320901     | 55.808  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 65606      | 187.882 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 240661     | 48.065  | ug/l   | 95       |
| 13) Acrolein                 | 3.653          | 56   | 76310      | 154.658 | ug/l   | 100      |
| 14) Allyl chloride           | 4.391          | 41   | 275973     | 45.226  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.061          | 53   | 220023     | 221.048 | ug/l   | 99       |
| 16) Acetone                  | 3.866          | 43   | 187729     | 168.000 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.110          | 76   | 678855     | 47.371  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.391          | 43   | 133534     | 45.555  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.128          | 73   | 567282     | 47.140  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.622          | 84   | 257390     | 42.597  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 269966     | 48.973  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.025          | 45   | 637385     | 47.222  | ug/l   | 98       |
| 23) Vinyl Acetate            | 5.964          | 43   | 1644383    | 225.072 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 426698     | 47.724  | ug/l   | 100      |
| 25) 2-Butanone               | 6.896          | 43   | 259665     | 190.341 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 382538     | 46.627  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 320476     | 50.329  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.250          | 49   | 145363     | 43.550  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 162982     | 210.679 | ug/l   | 95       |
| 30) Chloroform               | 7.427          | 83   | 483187     | 49.187  | ug/l   | 100      |
| 31) Cyclohexane              | 7.707          | 56   | 353691     | 45.298  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 438776     | 49.150  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 335099     | 50.324  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.988          | 43   | 113666     | 43.087  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 400696     | 49.627  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.109          | 83   | 444625     | 51.284  | ug/l   | 99       |
| 40) Benzene                  | 8.085          | 78   | 1047709    | 49.683  | ug/l   | 98       |

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 Response via : Initial Calibration

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|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 71572m   | 50.164  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 255150   | 46.915  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 234038   | 44.491  | ug/l   | 96       |
| 44) Trichloroethene           | 8.866  | 130  | 313634   | 50.814  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 229202   | 49.208  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 144226   | 48.968  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.426  | 83   | 368527   | 49.681  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.225  | 41   | 110743   | 44.813  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 30110    | 881.740 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 612591   | 225.398 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 703474   | 51.378  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 313770   | 48.647  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 376776   | 49.495  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 196457   | 49.602  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 229204   | 50.168  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 307270   | 48.959  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 520061   | 254.104 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 409070   | 210.613 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.914 | 129  | 276257   | 49.750  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 186443   | 49.359  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 389211   | 51.184  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.444 | 112  | 790856   | 49.375  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 279586   | 48.983  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.517 | 91   | 1326965  | 51.180  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 1069715  | 102.864 | ug/l   | 99       |
| 69) o-Xylene                  | 11.956 | 106  | 504150   | 51.685  | ug/l   | 98       |
| 70) Styrene                   | 11.969 | 104  | 825716   | 51.477  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 168167   | 47.498  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 1307982  | 50.351  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 205651   | 44.075  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 187874   | 44.218  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 167259m  | 48.093  | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 325547   | 47.139  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.597 | 91   | 1514758  | 50.389  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 869436   | 49.389  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 1064233  | 50.698  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 60001    | 42.307  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 888555   | 49.011  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 984683   | 50.804  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 1057692  | 50.487  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 1414302  | 50.869  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1203295  | 50.832  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 642885   | 47.804  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 627634   | 47.254  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 1038268  | 50.337  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 245198   | 48.159  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 559928   | 47.490  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 28904    | 41.460  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 339415   | 46.176  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 213484   | 46.592  | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 521350   | 44.541  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 286362   | 44.977  | ug/l   | 99       |

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|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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