

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082525\  
 Data File : VY023200.D  
 Acq On : 25 Aug 2025 09:10  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 08/26/2025  
 Supervised By :Semsettin Yesilyurt 08/26/2025

Quant Time: Aug 25 23:43:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 511931   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 779400   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 684220   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 354616   | 50.000 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.061  | 65    | 220021   | 45.095   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 90.200% |
| 35) Dibromofluoromethane  | 7.634  | 113   | 232551   | 49.864   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 99.720% |
| 50) Toluene-d8            | 10.103 | 98    | 895446   | 49.149   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 134 | Recovery | =    | 98.300% |
| 62) 4-Bromofluorobenzene  | 12.402 | 95    | 289617   | 49.429   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 30 - 143 | Recovery | =    | 98.860% |

## Target Compounds

|                              |       |     |         |         |      | Qvalue |
|------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 174465  | 41.751  | ug/l | 97     |
| 3) Chloromethane             | 2.068 | 50  | 290505  | 42.923  | ug/l | 99     |
| 4) Vinyl Chloride            | 2.202 | 62  | 382326  | 45.698  | ug/l | 97     |
| 5) Bromomethane              | 2.592 | 94  | 293441  | 46.964  | ug/l | 96     |
| 6) Chloroethane              | 2.733 | 64  | 265830  | 47.793  | ug/l | 98     |
| 7) Trichlorofluoromethane    | 3.050 | 101 | 474195  | 46.613  | ug/l | 98     |
| 8) Diethyl Ether             | 3.452 | 74  | 129065  | 47.954  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 246699  | 49.155  | ug/l | 98     |
| 10) Methyl Iodide            | 4.001 | 142 | 293085  | 54.117  | ug/l | 100    |
| 11) Tert butyl alcohol       | 4.860 | 59  | 72101   | 215.673 | ug/l | 100    |
| 12) 1,1-Dichloroethene       | 3.787 | 96  | 239148  | 48.478  | ug/l | 96     |
| 13) Acrolein                 | 3.653 | 56  | 38265   | 78.156  | ug/l | 97     |
| 14) Allyl chloride           | 4.379 | 41  | 326807  | 45.022  | ug/l | 98     |
| 15) Acrylonitrile            | 5.055 | 53  | 262253  | 239.674 | ug/l | 100    |
| 16) Acetone                  | 3.867 | 43  | 282469  | 267.231 | ug/l | 97     |
| 17) Carbon Disulfide         | 4.104 | 76  | 728636  | 45.298  | ug/l | 98     |
| 18) Methyl Acetate           | 4.379 | 43  | 139263  | 44.273  | ug/l | 96     |
| 19) Methyl tert-butyl Ether  | 5.110 | 73  | 615518  | 48.150  | ug/l | 100    |
| 20) Methylene Chloride       | 4.610 | 84  | 274056  | 49.890  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene | 5.116 | 96  | 273572  | 49.347  | ug/l | 95     |
| 22) Diisopropyl ether        | 6.019 | 45  | 746283  | 47.312  | ug/l | 99     |
| 23) Vinyl Acetate            | 5.958 | 43  | 2080239 | 238.505 | ug/l | 99     |
| 24) 1,1-Dichloroethane       | 5.915 | 63  | 463627  | 48.075  | ug/l | 98     |
| 25) 2-Butanone               | 6.890 | 43  | 351028  | 244.178 | ug/l | 96     |
| 26) 2,2-Dichloropropane      | 6.884 | 77  | 408864  | 49.134  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene   | 6.890 | 96  | 317184  | 49.490  | ug/l | 97     |
| 28) Bromochloromethane       | 7.244 | 49  | 175839  | 45.958  | ug/l | 94     |
| 29) Tetrahydrofuran          | 7.256 | 42  | 206335  | 231.550 | ug/l | 97     |
| 30) Chloroform               | 7.421 | 83  | 486143  | 48.879  | ug/l | 95     |
| 31) Cyclohexane              | 7.701 | 56  | 392561  | 43.196  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane    | 7.616 | 97  | 430519  | 48.784  | ug/l | 100    |
| 36) 1,1-Dichloropropene      | 7.835 | 75  | 345711  | 49.880  | ug/l | 99     |
| 37) Ethyl Acetate            | 6.982 | 43  | 144808  | 49.737  | ug/l | 98     |
| 38) Carbon Tetrachloride     | 7.817 | 117 | 386437  | 51.334  | ug/l | 97     |
| 39) Methylcyclohexane        | 9.110 | 83  | 453797  | 49.720  | ug/l | 95     |
| 40) Benzene                  | 8.079 | 78  | 1080385 | 50.575  | ug/l | 99     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Manual Integrations  
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 Supervised By :Semsettin Yesilyurt 08/26/2025

Quant Time: Aug 25 23:43:46 2025  
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 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.214  | 41   | 76772    | 45.690  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.159  | 62   | 272934   | 49.126  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 281704   | 47.872  | ug/l   | 97       |
| 44) Trichloroethene           | 8.866  | 130  | 294250   | 53.302  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 249964   | 50.855  | ug/l   | 98       |
| 46) Dibromomethane            | 9.232  | 93   | 147334   | 52.225  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.420  | 83   | 375361   | 51.708  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 135380   | 48.077  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.232  | 88   | 32525    | 983.254 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 755647   | 248.943 | ug/l   | 97       |
| 52) Toluene                   | 10.170 | 92   | 701155   | 51.679  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 334500   | 50.886  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 396698   | 51.034  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 195997   | 51.920  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 250522   | 51.863  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 327218   | 51.111  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 579858   | 254.487 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.756 | 43   | 536194   | 259.418 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.908 | 129  | 267216   | 53.646  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 186771   | 52.640  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 348666   | 57.068  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 771112   | 52.248  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 268364   | 53.577  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 1323316  | 52.103  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.627 | 106  | 1050953  | 105.947 | ug/l   | 98       |
| 69) o-Xylene                  | 11.951 | 106  | 490700   | 52.817  | ug/l   | 100      |
| 70) Styrene                   | 11.969 | 104  | 821780   | 54.087  | ug/l   | 98       |
| 71) Bromoform                 | 12.133 | 173  | 158779   | 54.237  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.255 | 105  | 1280832  | 51.175  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 252987   | 47.664  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 203707   | 47.667  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 148599m  | 43.419  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 306441   | 51.321  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.597 | 91   | 1518966  | 50.975  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 861756   | 50.475  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 1032845  | 51.061  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 67712    | 47.893  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.774 | 91   | 874581   | 49.380  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 12.993 | 119  | 946313   | 51.799  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 1034114  | 51.357  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 1387981  | 51.719  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1168412  | 52.451  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 609915   | 51.798  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 598510   | 51.240  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 1054705  | 51.551  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 234324   | 51.385  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.658 | 146  | 538193   | 52.117  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 31613    | 47.511  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 312119   | 51.110  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 184725   | 51.477  | ug/l   | 98       |
| 95) Naphthalene               | 15.145 | 128  | 535241   | 51.400  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 268633   | 51.049  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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