

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030725\  
 Data File : VY021453.D  
 Acq On : 07 Mar 2025 12:03  
 Operator : SY/MD  
 Sample : VY0307SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0307SBS01

Quant Time: Mar 07 22:00:05 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/11/2025  
 Supervised By :Semsettin Yesilyurt 03/11/2025

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 219868              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 343563              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 301562              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 152803              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 123341              | 53.076  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 106.160% |         |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 117478              | 52.021  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 104.040% |         |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 444032              | 51.930  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 103.860% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 148084              | 50.913  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 101.820% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 39418               | 19.537  | ug/l   | 94       |
| 3) Chloromethane             | 2.068          | 50   | 57411               | 20.182  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.202          | 62   | 64302               | 20.685  | ug/l   | 96       |
| 5) Bromomethane              | 2.592          | 94   | 46339               | 20.625  | ug/l   | 96       |
| 6) Chloroethane              | 2.732          | 64   | 44175               | 21.504  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 94934               | 21.880  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.452          | 74   | 23849               | 19.834  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 49349               | 19.921  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 48739               | 19.355  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.872          | 59   | 18258               | 108.044 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.787          | 96   | 43870               | 19.424  | ug/l   | 97       |
| 13) Acrolein                 | 3.647          | 56   | 16580               | 140.270 | ug/l   | 95       |
| 14) Allyl chloride           | 4.385          | 41   | 70258               | 19.249  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.061          | 53   | 50908               | 99.456  | ug/l   | 98       |
| 16) Acetone                  | 3.866          | 43   | 58595               | 115.604 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.104          | 76   | 133704              | 18.890  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.385          | 43   | 23025               | 20.473  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 110998              | 19.390  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.616          | 84   | 54760               | 20.582  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 49678               | 19.641  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.018          | 45   | 157929              | 20.078  | ug/l   | 99       |
| 23) Vinyl Acetate            | 5.957          | 43   | 450639              | 100.386 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 91407               | 19.690  | ug/l   | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 75161               | 107.199 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 82994               | 19.429  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 54488               | 18.963  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.244          | 49   | 37442               | 19.238  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 44158               | 102.018 | ug/l   | 97       |
| 30) Chloroform               | 7.421          | 83   | 95944               | 19.903  | ug/l   | 99       |
| 31) Cyclohexane              | 7.701          | 56   | 82128               | 18.870  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 86978               | 19.705  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 68637               | 19.417  | ug/l   | 98       |
| 37) Ethyl Acetate            | 6.982          | 43   | 31592               | 20.220  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 79070               | 19.449  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.109          | 83   | 81593               | 18.818  | ug/l   | 99       |
| 40) Benzene                  | 8.079          | 78   | 202793              | 19.475  | ug/l   | 99       |

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 ALS Vial : 4 Sample Multiplier: 1

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 ClientSampleId :  
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Manual Integrations  
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 Supervised By :Semsettin Yesilyurt 03/11/2025

Quant Time: Mar 07 22:00:05 2025  
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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 17773m   | 20.892  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 57755    | 19.826  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.195  | 43   | 59917    | 19.755  | ug/l # | 87       |
| 44) Trichloroethene           | 8.865  | 130  | 50339    | 19.130  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 49619    | 20.021  | ug/l   | 97       |
| 46) Dibromomethane            | 9.231  | 93   | 27131    | 19.675  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.426  | 83   | 71823    | 19.613  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 27630    | 19.839  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.237  | 88   | 5803     | 428.740 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 157126   | 100.404 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 128919   | 19.637  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 62838    | 19.476  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 73636    | 19.223  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 35572    | 19.720  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 44620    | 19.396  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 60936    | 19.491  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 107568   | 101.290 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 109553   | 105.872 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.914 | 129  | 47870    | 19.358  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 33437    | 19.641  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.646 | 164  | 48058    | 19.598  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 135015   | 18.959  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 48814    | 19.388  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.517 | 91   | 238496   | 19.081  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 184669   | 38.916  | ug/l   | 99       |
| 69) o-Xylene                  | 11.956 | 106  | 83621    | 19.120  | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 140205   | 19.324  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 28337    | 20.134  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.255 | 105  | 227722   | 18.919  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 49116    | 18.789  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 41732    | 19.647  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 30660m   | 19.912  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 51851    | 18.413  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.597 | 91   | 280785   | 19.208  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 159129   | 19.038  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 187183   | 19.136  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 13174    | 19.450  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 166239   | 19.206  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 163102   | 18.691  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 185591   | 19.109  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 249181   | 19.192  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 202582   | 18.939  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 105372   | 18.798  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 104875   | 19.131  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.621 | 91   | 186240   | 18.856  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.883 | 117  | 43553    | 19.087  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 91257    | 18.995  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 6311     | 19.835  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 47173    | 17.977  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 31456    | 19.123  | ug/l   | 99       |
| 95) Naphthalene               | 15.151 | 128  | 74806    | 18.887  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 39961    | 18.107  | 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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