

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022625\  
 Data File : VY021320.D  
 Acq On : 26 Feb 2025 10:11  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

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

Quant Time: Feb 27 00:33:59 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

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 193888     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 308714     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 268805     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 131935     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 105547     | 47.987  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.980% |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 98654      | 48.743  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.480% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 387966     | 49.599  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 99.200% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 129754     | 49.290  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 98.580% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 85738      | 46.640  | ug/l   | 96       |
| 3) Chloromethane             | 2.068          | 50   | 112705     | 47.473  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.202          | 62   | 113710     | 48.798  | ug/l   | 98       |
| 5) Bromomethane              | 2.598          | 94   | 71789      | 46.361  | ug/l   | 99       |
| 6) Chloroethane              | 2.739          | 64   | 70476      | 48.772  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 167868     | 47.701  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.452          | 74   | 52323      | 49.537  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 96104      | 47.169  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 111918     | 52.212  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.854          | 59   | 34212      | 202.221 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 94447      | 48.413  | ug/l   | 99       |
| 13) Acrolein                 | 3.653          | 56   | 5526       | 42.624  | ug/l   | 99       |
| 14) Allyl chloride           | 4.385          | 41   | 173778     | 50.242  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.061          | 53   | 112963     | 241.892 | ug/l   | 99       |
| 16) Acetone                  | 3.867          | 43   | 109810     | 260.267 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.110          | 76   | 315561     | 48.712  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.385          | 43   | 49846      | 48.342  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 253623     | 49.206  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.616          | 84   | 103268     | 45.263  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 104607     | 48.708  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.019          | 45   | 361038     | 50.442  | ug/l   | 98       |
| 23) Vinyl Acetate            | 5.958          | 43   | 1065848    | 249.197 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 197949     | 49.069  | ug/l   | 98       |
| 25) 2-Butanone               | 6.890          | 43   | 157281     | 246.999 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 180065     | 49.191  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 122751     | 50.053  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.244          | 49   | 84337      | 47.247  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 99242      | 238.435 | ug/l   | 100      |
| 30) Chloroform               | 7.421          | 83   | 201334     | 49.253  | ug/l   | 99       |
| 31) Cyclohexane              | 7.701          | 56   | 178746     | 46.094  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 181553     | 48.795  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 146702     | 48.254  | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.982          | 43   | 72710      | 48.080  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 165430     | 48.402  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.109          | 83   | 178508     | 46.422  | ug/l   | 97       |
| 40) Benzene                  | 8.079          | 78   | 436709     | 48.593  | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Wed Feb 26 02:09:13 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 36160    | 42.766  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 122335   | 47.978  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 140455   | 47.984  | ug/l   | 99       |
| 44) Trichloroethene           | 8.866  | 130  | 109499   | 48.665  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 105190   | 48.637  | ug/l   | 100      |
| 46) Dibromomethane            | 9.231  | 93   | 56977    | 48.195  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.427  | 83   | 152416   | 48.352  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 66362    | 48.481  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 12417    | 944.605 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 360891   | 240.853 | ug/l   | 100      |
| 52) Toluene                   | 10.170 | 92   | 275527   | 49.351  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 144366   | 49.988  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 167718   | 49.192  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 72899    | 47.334  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 108485   | 50.979  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 132919   | 49.183  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 239640   | 234.614 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 245501   | 249.476 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.908 | 129  | 102499   | 48.867  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 69304    | 47.532  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.646 | 164  | 96416    | 47.455  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 293397   | 48.625  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 104152   | 49.295  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.518 | 91   | 530215   | 49.609  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 395166   | 98.298  | ug/l   | 99       |
| 69) o-Xylene                  | 11.957 | 106  | 187084   | 49.676  | ug/l   | 98       |
| 70) Styrene                   | 11.969 | 104  | 316002   | 50.431  | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 58316    | 48.247  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 493694   | 49.774  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.072 | 43   | 128988   | 51.162  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 84288    | 48.150  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 52897m   | 40.055  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 114266   | 49.529  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.597 | 91   | 595911   | 49.510  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 339722   | 49.181  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 403527   | 49.604  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 29544    | 49.724  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 353786   | 49.408  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 358344   | 48.765  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 403288   | 49.846  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 515970   | 48.069  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 435539   | 48.594  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 221110   | 48.450  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 215487   | 47.797  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.621 | 91   | 408995   | 48.491  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.883 | 117  | 88564    | 47.306  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 193750   | 48.457  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 13100    | 47.306  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 14.926 | 180  | 116572   | 47.769  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 70063    | 45.603  | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 205892   | 50.937  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 98515    | 47.779  | 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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