

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY013125\  
 Data File : VY021018.D  
 Acq On : 31 Jan 2025 18:26  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/03/2025  
 Supervised By :Semsettin Yesilyurt 02/03/2025

Quant Time: Jan 31 22:28:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y013025S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 31 16:50:06 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 220834   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 331779   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 297319   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 155488   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 94163    | 50.081   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 100.160% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 100358   | 50.315   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 100.620% |
| 50) Toluene-d8              | 10.109 | 98    | 369536   | 47.467   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 94.940%  |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 133822   | 51.228   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | =    | 102.460% |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 82640  | 44.010  | ug/l   | 96  |
| 3) Chloromethane             | 2.068 | 50  | 49016  | 41.059  | ug/l   | 98  |
| 4) Vinyl Chloride            | 2.202 | 62  | 50936  | 41.381  | ug/l   | 96  |
| 5) Bromomethane              | 2.598 | 94  | 41521  | 49.829  | ug/l   | 99  |
| 6) Chloroethane              | 2.732 | 64  | 32500  | 45.200  | ug/l   | 97  |
| 7) Trichlorofluoromethane    | 3.062 | 101 | 133811 | 45.048  | ug/l   | 96  |
| 8) Diethyl Ether             | 3.458 | 74  | 51223  | 57.762  | ug/l   | 94  |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 91967  | 45.979  | ug/l   | 96  |
| 10) Methyl Iodide            | 4.007 | 142 | 115162 | 50.313  | ug/l   | 99  |
| 11) Tert butyl alcohol       | 4.854 | 59  | 34349  | 250.091 | ug/l   | 98  |
| 12) 1,1-Dichloroethene       | 3.787 | 96  | 90482  | 48.405  | ug/l   | 94  |
| 13) Acrolein                 | 3.653 | 56  | 36676  | 231.889 | ug/l   | 100 |
| 14) Allyl chloride           | 4.385 | 41  | 119342 | 46.376  | ug/l   | 97  |
| 15) Acrylonitrile            | 5.055 | 53  | 100077 | 274.360 | ug/l   | 98  |
| 16) Acetone                  | 3.866 | 43  | 67388  | 262.963 | ug/l   | 98  |
| 17) Carbon Disulfide         | 4.104 | 76  | 272147 | 47.271  | ug/l   | 100 |
| 18) Methyl Acetate           | 4.378 | 43  | 49732  | 55.460  | ug/l   | 97  |
| 19) Methyl tert-butyl Ether  | 5.116 | 73  | 248129 | 57.031  | ug/l   | 100 |
| 20) Methylene Chloride       | 4.616 | 84  | 98947  | 52.351  | ug/l   | 97  |
| 21) trans-1,2-Dichloroethene | 5.116 | 96  | 102680 | 51.235  | ug/l   | 93  |
| 22) Diisopropyl ether        | 6.018 | 45  | 260669 | 49.694  | ug/l   | 97  |
| 23) Vinyl Acetate            | 5.957 | 43  | 745138 | 256.512 | ug/l   | 95  |
| 24) 1,1-Dichloroethane       | 5.915 | 63  | 169479 | 50.082  | ug/l   | 96  |
| 25) 2-Butanone               | 6.890 | 43  | 113940 | 262.089 | ug/l   | 96  |
| 26) 2,2-Dichloropropane      | 6.884 | 77  | 141916 | 42.594  | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene   | 6.890 | 96  | 122967 | 53.381  | ug/l   | 94  |
| 28) Bromochloromethane       | 7.244 | 49  | 64418  | 51.093  | ug/l   | 85  |
| 29) Tetrahydrofuran          | 7.262 | 42  | 75700  | 258.768 | ug/l   | 91  |
| 30) Chloroform               | 7.421 | 83  | 190916 | 52.088  | ug/l   | 100 |
| 31) Cyclohexane              | 7.701 | 56  | 133821 | 40.457  | ug/l   | 95  |
| 32) 1,1,1-Trichloroethane    | 7.616 | 97  | 174118 | 49.086  | ug/l   | 97  |
| 36) 1,1-Dichloropropene      | 7.835 | 75  | 128609 | 45.197  | ug/l   | 99  |
| 37) Ethyl Acetate            | 6.982 | 43  | 53623  | 50.547  | ug/l # | 94  |
| 38) Carbon Tetrachloride     | 7.817 | 117 | 167627 | 47.604  | ug/l   | 99  |
| 39) Methylcyclohexane        | 9.109 | 83  | 167028 | 43.695  | ug/l   | 99  |
| 40) Benzene                  | 8.079 | 78  | 409507 | 48.910  | ug/l   | 99  |

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 ALS Vial : 1 Sample Multiplier: 1

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 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Fri Jan 31 16:50:06 2025  
 Response via : Initial Calibration

Manual Integrations  
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 Supervised By :Semsettin Yesilyurt 02/03/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.219  | 41   | 32338    | 55.094   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 109169   | 51.413   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 106167   | 50.095   | ug/l # | 92       |
| 44) Trichloroethene           | 8.866  | 130  | 112957   | 48.893   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 90644    | 48.302   | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 56443    | 51.683   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.420  | 83   | 145452   | 50.716   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.219  | 41   | 49304    | 48.864   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 13068    | 1126.099 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 275491   | 252.977  | ug/l   | 95       |
| 52) Toluene                   | 10.170 | 92   | 271273   | 49.914   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 135182   | 52.087   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 155165   | 50.023   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 76443    | 52.634   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 106557   | 56.129   | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 127520   | 51.803   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 237547   | 294.811  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.762 | 43   | 184194   | 260.218  | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.914 | 129  | 111924   | 54.049   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 74638    | 53.804   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 102706   | 45.794   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.438 | 112  | 309855   | 49.465   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 114120   | 51.331   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.517 | 91   | 515281   | 47.509   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 399519   | 95.875   | ug/l   | 99       |
| 69) o-Xylene                  | 11.956 | 106  | 194216   | 50.135   | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 328811   | 51.124   | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 70013    | 53.433   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 496436   | 45.460   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 96609    | 48.584   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 84134    | 47.729   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 62631m   | 50.883   | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 129661   | 50.080   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.597 | 91   | 561047   | 43.837   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 340104   | 46.641   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 413927   | 46.266   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 27853    | 46.973   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 350176   | 46.922   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 375987   | 45.312   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 419113   | 47.957   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 511160   | 43.512   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 450759   | 45.659   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 242280   | 47.993   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 235656   | 47.009   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.621 | 91   | 375782   | 42.497   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.883 | 117  | 87867    | 43.994   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 214972   | 48.832   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 13686    | 50.430   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 134312   | 49.829   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 82749    | 44.325   | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 238961   | 48.923   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 118061   | 45.768   | ug/l   | 100      |

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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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