

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071323\  
 Data File : VY014628.D  
 Acq On : 13 Jul 2023 15:11  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY071323

Quant Time: Jul 14 04:24:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/14/2023  
 Supervised By : Mahesh Dadoda 07/14/2023

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.777          | 168  | 327229     | 50.000  | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene      | 8.679          | 114  | 536980     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.483         | 117  | 472279     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 232652     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130          | 65   | 174023     | 46.669  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 93.340% |        |          |
| 35) Dibromofluoromethane     | 7.704          | 113  | 163430     | 47.811  | ug/l   | -0.01    |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 95.620% |        |          |
| 50) Toluene-d8               | 10.173         | 98   | 592382     | 47.005  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 94.020% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 227225     | 47.022  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 94.040% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 120981     | 45.380  | ug/l   | 96       |
| 3) Chloromethane             | 2.107          | 50   | 145514     | 48.556  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.241          | 62   | 163421     | 48.793  | ug/l   | 97       |
| 5) Bromomethane              | 2.631          | 94   | 109040     | 49.264  | ug/l   | 99       |
| 6) Chloroethane              | 2.778          | 64   | 103108     | 49.285  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.107          | 101  | 278523     | 49.515  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.515          | 74   | 104060     | 49.720  | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 3.881          | 101  | 170012     | 49.311  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.070          | 142  | 179581     | 49.175  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.942          | 59   | 164522     | 209.229 | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 158384     | 49.151  | ug/l   | 94       |
| 13) Acrolein                 | 3.716          | 56   | 81947      | 210.259 | ug/l   | 99       |
| 14) Allyl chloride           | 4.460          | 41   | 277735     | 48.542  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.143          | 53   | 283730     | 245.842 | ug/l   | 97       |
| 16) Acetone                  | 3.936          | 43   | 305589     | 258.614 | ug/l   | 92       |
| 17) Carbon Disulfide         | 4.180          | 76   | 433101     | 46.946  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.460          | 43   | 217828     | 48.037  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.204          | 73   | 519471     | 49.627  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.698          | 84   | 194430     | 50.710  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.204          | 96   | 178722     | 48.873  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.106          | 45   | 578311     | 49.716  | ug/l   | 90       |
| 23) Vinyl Acetate            | 6.045          | 43   | 1720917    | 247.218 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.003          | 63   | 328632     | 49.375  | ug/l   | 97       |
| 25) 2-Butanone               | 6.972          | 43   | 422236     | 244.246 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.966          | 77   | 317958     | 50.124  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.972          | 96   | 211104     | 49.595  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.320          | 49   | 134763     | 47.012  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.332          | 42   | 251521     | 236.286 | ug/l   | 93       |
| 30) Chloroform               | 7.496          | 83   | 339372     | 49.446  | ug/l   | 96       |
| 31) Cyclohexane              | 7.777          | 56   | 285519     | 46.126  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.691          | 97   | 306465     | 49.612  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.905          | 75   | 253236     | 49.538  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.063          | 43   | 169952     | 48.288  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.886          | 117  | 268615     | 49.709  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.173          | 83   | 325134     | 48.820  | ug/l   | 98       |
| 40) Benzene                  | 8.149          | 78   | 727040     | 50.008  | ug/l   | 99       |

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 ALS Vial : 10 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
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### Manual Integrations APPROVED

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 Supervised By : Mahesh Dadoda 07/14/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.295  | 41   | 89591    | 49.489  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 230330   | 50.028  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 327066   | 48.784  | ug/l   | 96       |
| 44) Trichloroethene           | 8.929  | 130  | 203462   | 50.018  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 190328   | 50.134  | ug/l   | 98       |
| 46) Dibromomethane            | 9.295  | 93   | 114022   | 49.509  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.490  | 83   | 274910   | 50.646  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.283  | 41   | 148418   | 49.197  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.289  | 88   | 37358    | 994.793 | ug/l # | 61       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43   | 863118   | 245.195 | ug/l   | 94       |
| 52) Toluene                   | 10.240 | 92   | 463942   | 49.869  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 297662   | 50.133  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 322889   | 50.008  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.636 | 97   | 162471   | 50.644  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.502 | 69   | 244491   | 49.914  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.782 | 76   | 276336   | 49.940  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 568842   | 249.241 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.825 | 43   | 641108   | 249.743 | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.977 | 129  | 196919   | 50.064  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.081 | 107  | 159790   | 49.928  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 184802   | 48.653  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.508 | 112  | 504493   | 50.128  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 194761   | 51.326  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.587 | 91   | 906239   | 49.873  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.697 | 106  | 695363   | 100.250 | ug/l   | 97       |
| 69) o-Xylene                  | 12.026 | 106  | 340297   | 50.370  | ug/l   | 98       |
| 70) Styrene                   | 12.038 | 104  | 574147   | 50.422  | ug/l   | 99       |
| 71) Bromoform                 | 12.203 | 173  | 129629   | 50.398  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.325 | 105  | 901694   | 49.498  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.136 | 43   | 299735   | 49.128  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.575 | 83   | 202453   | 48.734  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 133224m  | 45.340  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 208167   | 50.061  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.666 | 91   | 1086342  | 49.489  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 625376   | 49.462  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 755413   | 49.654  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 75147    | 49.517  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 643515   | 49.419  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.068 | 119  | 673803   | 49.928  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 743106   | 49.771  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 986311   | 49.821  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 815985   | 50.483  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 404430   | 49.972  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 407268   | 50.219  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.690 | 91   | 788048   | 50.112  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.959 | 117  | 165051   | 49.714  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 372673   | 50.261  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 37843    | 47.634  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 240959   | 51.193  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 132225   | 51.119  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 548206   | 49.992  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 212903   | 50.895  | ug/l   | 98       |

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ALS Vial : 10 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/14/2023  
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Quant Title : SW846 8260  
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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

