

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY012122\  
 Data File : VY007248.D  
 Acq On : 21 Jan 2022 12:39  
 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 : John Carlone 01/24/2022  
 Supervised By : Mahesh Dadoda 01/24/2022

Quant Time: Jan 22 00:22:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011322S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 14 05:48:29 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 99719      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 173532     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 154583     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 69060      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 58034      | 47.430  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.860% |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 54584      | 46.518  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 93.040% |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 196075     | 45.731  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 91.460% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 68717      | 45.056  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 90.120% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 15885      | 45.430  | ug/l   | 95       |
| 3) Chloromethane             | 2.119          | 50   | 39435      | 53.781  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.266          | 62   | 56127      | 52.593  | ug/l   | 99       |
| 5) Bromomethane              | 2.668          | 94   | 38356      | 55.505  | ug/l   | 99       |
| 6) Chloroethane              | 2.808          | 64   | 35360      | 53.104  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 62228      | 54.105  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.534          | 74   | 31982      | 50.497  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 57124      | 50.977  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.101          | 142  | 85923      | 51.843  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 22839      | 218.303 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 56813      | 50.349  | ug/l   | 96       |
| 13) Acrolein                 | 3.735          | 56   | 5533       | 218.699 | ug/l   | 92       |
| 14) Allyl chloride           | 4.491          | 41   | 88226      | 48.763  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.174          | 53   | 75550      | 248.205 | ug/l   | 100      |
| 16) Acetone                  | 3.954          | 43   | 71768      | 226.008 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.204          | 76   | 154253     | 49.226  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 50771      | 44.934  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.229          | 73   | 117034     | 52.684  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.722          | 84   | 64047      | 48.776  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.229          | 96   | 61213      | 50.039  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.125          | 45   | 189719     | 51.759  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 553942     | 256.981 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 114593     | 51.394  | ug/l   | 99       |
| 25) 2-Butanone               | 6.990          | 43   | 94227      | 229.511 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 86886      | 53.469  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 70987      | 51.155  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.344          | 49   | 45467      | 56.373  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 61996      | 234.909 | ug/l   | 99       |
| 30) Chloroform               | 7.515          | 83   | 125388     | 54.123  | ug/l   | 97       |
| 31) Cyclohexane              | 7.795          | 56   | 98348      | 47.543  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 105466     | 53.261  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 92663      | 49.445  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 44961      | 46.749  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 97816      | 49.622  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.191          | 83   | 110006     | 48.076  | ug/l   | 97       |
| 40) Benzene                  | 8.167          | 78   | 247430     | 49.496  | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jan 14 05:48:29 2022  
 Response via : Initial Calibration

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 23598    | 42.607  | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 78886    | 50.112  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 87775    | 46.904  | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 66229    | 48.959  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 63076    | 49.618  | ug/l   | 95       |
| 46) Dibromomethane            | 9.313  | 93   | 36236    | 48.202  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.502  | 83   | 94549    | 51.161  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 38082    | 44.739  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 7486     | 923.571 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 220259   | 232.124 | ug/l   | 97       |
| 52) Toluene                   | 10.252 | 92   | 157089   | 49.575  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 96824    | 49.632  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 108565   | 49.715  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 48848    | 47.905  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 68542    | 47.714  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 86747    | 48.806  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 146133   | 223.718 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 144718   | 224.729 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.990 | 129  | 61466    | 49.036  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 47523    | 47.440  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.727 | 164  | 52459    | 47.081  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 166104   | 49.142  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 62534    | 49.909  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.599 | 91   | 312829   | 49.243  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 231268   | 97.961  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 109413   | 49.213  | ug/l   | 99       |
| 70) Styrene                   | 12.050 | 104  | 184989   | 49.323  | ug/l   | 100      |
| 71) Bromoform                 | 12.215 | 173  | 34430    | 47.506  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.337 | 105  | 292691   | 49.070  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 73955    | 46.366  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 53881    | 46.454  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 39669m   | 50.376  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 63309    | 48.779  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.678 | 91   | 361162   | 48.844  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 199535   | 48.535  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 238069   | 48.610  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 20146    | 46.836  | ug/l # | 99       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 209210   | 48.784  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 210947   | 49.847  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 236739   | 48.767  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.258 | 105  | 309394   | 48.869  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 254153   | 48.850  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 123719   | 48.700  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 121830   | 47.692  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.703 | 91   | 248975   | 48.602  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 49499    | 48.665  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 107455   | 47.539  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 8572     | 42.790  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 64945    | 47.248  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 34336    | 48.469  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 130564   | 44.722  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 54814    | 46.742  | 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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