

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100421\  
 Data File : VY006273.D  
 Acq On : 04 Oct 2021 13:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/5/2021 6:03:08 PM

Quant Time: Oct 05 06:36:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y092821S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 142944     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 213029     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 198026     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 102526     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.148          | 65   | 74364      | 48.61   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.22%  |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 56439      | 49.59   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.18%  |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 234428     | 49.22   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 98.44%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 82397      | 50.92   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 101.84% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 68891      | 47.51   | ug/l   | 99       |
| 3) Chloromethane             | 2.119          | 50   | 84253      | 49.89   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.253          | 62   | 95155      | 50.84   | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 59576      | 48.98   | ug/l   | 98       |
| 6) Chloroethane              | 2.802          | 64   | 56576      | 51.37   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 128845     | 52.26   | ug/l   | 94       |
| 8) Diethyl Ether             | 3.533          | 74   | 40408      | 49.62   | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 65404      | 49.70   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.094          | 142  | 69285      | 48.31   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 32232      | 240.84  | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 66332      | 49.55   | ug/l   | 93       |
| 13) Acrolein                 | 3.735          | 56   | 22004      | 233.31  | ug/l   | 97       |
| 14) Allyl chloride           | 4.484          | 41   | 123865     | 48.11   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.167          | 53   | 101165     | 236.21  | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 114688     | 268.40  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.204          | 76   | 210824     | 47.08   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.484          | 43   | 65701      | 45.60   | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 197219     | 50.44   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.728          | 84   | 80626      | 55.12   | ug/l   | 86       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 74234      | 50.01   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.124          | 45   | 244040     | 47.91   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.063          | 43   | 719630     | 235.71  | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 132418     | 48.43   | ug/l   | 97       |
| 25) 2-Butanone               | 6.990          | 43   | 138345     | 232.42  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 132501     | 52.99   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 83945      | 50.50   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.338          | 49   | 57662      | 50.64   | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 83735      | 222.71  | ug/l   | 92       |
| 30) Chloroform               | 7.514          | 83   | 139275     | 51.06   | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 131818     | 45.48   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.703          | 97   | 133919     | 53.17   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 108758     | 51.31   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.075          | 43   | 57819      | 46.83   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 122175     | 54.59   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.185          | 83   | 135953     | 51.07   | ug/l   | 95       |
| 40) Benzene                  | 8.161          | 78   | 306035     | 50.89   | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 34100m   | 42.58  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 103656   | 53.50  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 113488   | 47.92  | ug/l   | 95       |
| 44) Trichloroethene           | 8.941  | 130  | 83410    | 53.71  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 71923    | 48.58  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 39874    | 50.58  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.502  | 83   | 107145   | 52.79  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 52837    | 46.51  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 10169    | 988.77 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 292961   | 238.25 | ug/l   | 97       |
| 52) Toluene                   | 10.246 | 92   | 195866   | 52.51  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 115127   | 52.02  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 124225   | 51.06  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 55601    | 50.13  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 84198    | 49.94  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 100500   | 50.07  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 195409   | 236.56 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.831 | 43   | 216625   | 247.35 | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.983 | 129  | 72459    | 53.77  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 53173    | 50.63  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 92891    | 58.25  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 204465   | 52.11  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 76781    | 53.10  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 392053   | 53.01  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 303235   | 108.04 | ug/l   | 97       |
| 69) o-Xylene                  | 12.032 | 106  | 141817   | 53.50  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 242971   | 53.98  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 47590    | 52.92  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 380864   | 51.86  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 107085   | 46.98  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 58861    | 44.38  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 41715m   | 41.86  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 88433    | 51.36  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.672 | 91   | 465236   | 51.46  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 257193   | 51.41  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 323622   | 52.70  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 23788    | 46.91  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 267851   | 51.77  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.074 | 119  | 277928   | 52.94  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 320379   | 52.84  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 415898   | 52.42  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 358404   | 53.53  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 178472   | 52.31  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 176630   | 52.51  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 331749   | 52.15  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.958 | 117  | 62463    | 51.37  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 154538   | 51.80  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 11778    | 46.61  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 104326   | 52.92  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 68790    | 53.49  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 190444   | 48.63  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 88072    | 50.41  | ug/l   | 99       |

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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