

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051221\  
 Data File : VY004757.D  
 Acq On : 12 May 2021 16:37  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/13/2021 4:08:27 PM

Quant Time: May 13 00:56:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051021S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 11 04:13:44 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|-------|----------|
| -----                        |                |      |                    |        |       |          |
| Internal Standards           |                |      |                    |        |       |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 179740             | 50.00  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 288146             | 50.00  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 267569             | 50.00  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 131060             | 50.00  | ug/l  | 0.00     |
|                              |                |      |                    |        |       |          |
| System Monitoring Compounds  |                |      |                    |        |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 111123             | 51.94  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.88% |        |       |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 89988              | 57.05  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 114.10% |        |       |          |
| 50) Toluene-d8               | 10.185         | 98   | 387913             | 54.44  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 108.88% |        |       |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 129604             | 53.89  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 107.78% |        |       |          |
|                              |                |      |                    |        |       |          |
| Target Compounds             |                |      |                    |        |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 76717              | 46.61  | ug/l  | 98       |
| 3) Chloromethane             | 2.119          | 50   | 118424             | 44.40  | ug/l  | 99       |
| 4) Vinyl Chloride            | 2.259          | 62   | 122798             | 44.99  | ug/l  | 99       |
| 5) Bromomethane              | 2.662          | 94   | 68052              | 48.89  | ug/l  | 97       |
| 6) Chloroethane              | 2.802          | 64   | 77711              | 48.25  | ug/l  | 94       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 160152             | 49.43  | ug/l  | 97       |
| 8) Diethyl Ether             | 3.546          | 74   | 54757              | 47.83  | ug/l  | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 90828              | 49.41  | ug/l  | 99       |
| 10) Methyl Iodide            | 4.107          | 142  | 101251             | 51.52  | ug/l  | 100      |
| 11) Tert butyl alcohol       | 4.972          | 59   | 49906              | 232.11 | ug/l  | 97       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 88426              | 49.77  | ug/l  | 99       |
| 13) Acrolein                 | 3.741          | 56   | 60430              | 239.07 | ug/l  | 99       |
| 14) Allyl chloride           | 4.497          | 41   | 170603             | 49.14  | ug/l  | 99       |
| 15) Acrylonitrile            | 5.186          | 53   | 138325             | 241.05 | ug/l  | 98       |
| 16) Acetone                  | 3.960          | 43   | 116611             | 242.66 | ug/l  | 97       |
| 17) Carbon Disulfide         | 4.210          | 76   | 275017             | 50.69  | ug/l  | 99       |
| 18) Methyl Acetate           | 4.497          | 43   | 73843              | 48.19  | ug/l  | 99       |
| 19) Methyl tert-butyl Ether  | 5.235          | 73   | 244608             | 50.06  | ug/l  | 100      |
| 20) Methylene Chloride       | 4.735          | 84   | 119523             | 54.41  | ug/l  | 98       |
| 21) trans-1,2-Dichloroethene | 5.235          | 96   | 102084             | 50.57  | ug/l  | 97       |
| 22) Diisopropyl ether        | 6.137          | 45   | 341705             | 51.17  | ug/l  | 98       |
| 23) Vinyl Acetate            | 6.076          | 43   | 1267357            | 252.69 | ug/l  | 100      |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 189301             | 50.38  | ug/l  | 97       |
| 25) 2-Butanone               | 7.003          | 43   | 209983             | 245.96 | ug/l  | 96       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 167085             | 50.90  | ug/l  | 99       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 114511             | 51.08  | ug/l  | 99       |
| 28) Bromochloromethane       | 7.350          | 49   | 95700              | 52.13  | ug/l  | 100      |
| 29) Tetrahydrofuran          | 7.362          | 42   | 132710             | 243.68 | ug/l  | 98       |
| 30) Chloroform               | 7.521          | 83   | 185961             | 50.23  | ug/l  | 100      |
| 31) Cyclohexane              | 7.795          | 56   | 163700             | 47.27  | ug/l  | 97       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 167968             | 50.61  | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 149457             | 50.61  | ug/l  | 100      |
| 37) Ethyl Acetate            | 7.088          | 43   | 100161             | 49.50  | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 140168             | 52.81  | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.191          | 83   | 164394             | 51.05  | ug/l  | 97       |
| 40) Benzene                  | 8.173          | 78   | 428001             | 51.27  | ug/l  | 97       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/13/2021 4:08:27 PM

Quant Time: May 13 00:56:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051021S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 11 04:13:44 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 56270m   | 50.88   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 133004   | 50.45   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 189834   | 50.53   | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 113436   | 50.55   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 112739   | 51.62   | ug/l   | 99       |
| 46) Dibromomethane            | 9.313  | 93   | 61979    | 51.03   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.502  | 83   | 148367   | 51.50   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.301  | 41   | 86482    | 50.59   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 14586    | 1019.89 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 515096   | 254.84  | ug/l   | 99       |
| 52) Toluene                   | 10.252 | 92   | 272521   | 51.70   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 162718   | 50.98   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 180574   | 50.85   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 85673    | 51.26   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 125881   | 52.08   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 152088   | 51.17   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 304859   | 244.33  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 353166   | 257.85  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.990 | 129  | 100900   | 50.77   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 82190    | 51.00   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 119310   | 49.35   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 281695   | 51.16   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 102213   | 51.06   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 530354   | 51.84   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.709 | 106  | 400229   | 104.11  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 186625   | 51.95   | ug/l   | 100      |
| 70) Styrene                   | 12.050 | 104  | 320088   | 53.14   | ug/l   | 100      |
| 71) Bromoform                 | 12.215 | 173  | 62125    | 51.22   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 507608   | 51.34   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 176767   | 50.56   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 99351    | 50.35   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 76985m   | 55.30   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 113707   | 50.93   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 622467   | 51.59   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 334627   | 50.54   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 425720   | 51.85   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 39123    | 48.73   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 352776   | 51.31   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 361399   | 51.56   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 421253   | 51.26   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 527484   | 51.76   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 457435   | 51.78   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 218861   | 49.98   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 216663   | 50.21   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.703 | 91   | 440453   | 51.00   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.965 | 117  | 63713    | 51.21   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 194170   | 50.27   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 16547    | 44.89   | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 120304   | 48.35   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 67222    | 49.87   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 265608   | 49.32   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 106790   | 48.49   | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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Manual Integrations  
APPROVED

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5/13/2021 4:08:27 PM

Quant Time: May 13 00:56:59 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051021S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 11 04:13:44 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

