

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062221\  
 Data File : VD069511.D  
 Acq On : 22 Jun 2021 12:54  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/23/2021 5:31:08 PM

Quant Time: Jun 23 04:25:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 592882   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 1002651  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 959310   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 453364   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 365764   | 49.493   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 98.980%  |
| 35) Dibromofluoromethane    | 7.914  | 113   | 364932   | 53.843   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 107.680% |
| 50) Toluene-d8              | 10.338 | 98    | 1375230  | 54.094   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 108.180% |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 446531   | 53.426   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 106.860% |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         | Qvalue  |        |     |
| 2) Dichlorodifluoromethane   | 1.985 | 85  | 281513  | 49.503  | ug/l   | 98  |
| 3) Chloromethane             | 2.209 | 50  | 408810  | 49.146  | ug/l   | 98  |
| 4) Vinyl Chloride            | 2.350 | 62  | 445939  | 48.092  | ug/l   | 99  |
| 5) Bromomethane              | 2.768 | 94  | 289733  | 52.256  | ug/l   | 97  |
| 6) Chloroethane              | 2.921 | 64  | 296263  | 47.965  | ug/l   | 96  |
| 7) Trichlorofluoromethane    | 3.273 | 101 | 560039  | 50.857  | ug/l   | 94  |
| 8) Diethyl Ether             | 3.709 | 74  | 140442  | 48.213  | ug/l   | 96  |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 348245  | 51.704  | ug/l   | 97  |
| 10) Methyl Iodide            | 4.303 | 142 | 273869  | 44.580  | ug/l   | 97  |
| 11) Tert butyl alcohol       | 5.215 | 59  | 85133   | 214.424 | ug/l # | 90  |
| 12) 1,1-Dichloroethene       | 4.067 | 96  | 299072  | 51.083  | ug/l   | 97  |
| 13) Acrolein                 | 3.920 | 56  | 102796  | 249.908 | ug/l   | 99  |
| 14) Allyl chloride           | 4.715 | 41  | 421644  | 51.372  | ug/l   | 96  |
| 15) Acrylonitrile            | 5.420 | 53  | 306831  | 250.927 | ug/l   | 99  |
| 16) Acetone                  | 4.156 | 43  | 256268  | 206.023 | ug/l   | 98  |
| 17) Carbon Disulfide         | 4.409 | 76  | 1004822 | 52.129  | ug/l   | 98  |
| 18) Methyl Acetate           | 4.720 | 43  | 147343  | 47.583  | ug/l   | 99  |
| 19) Methyl tert-butyl Ether  | 5.479 | 73  | 557758  | 48.475  | ug/l   | 98  |
| 20) Methylene Chloride       | 4.962 | 84  | 414609  | 52.705  | ug/l   | 96  |
| 21) trans-1,2-Dichloroethene | 5.467 | 96  | 354281  | 50.156  | ug/l   | 95  |
| 22) Diisopropyl ether        | 6.362 | 45  | 891385  | 53.896  | ug/l   | 97  |
| 23) Vinyl Acetate            | 6.303 | 43  | 2503926 | 238.961 | ug/l   | 99  |
| 24) 1,1-Dichloroethane       | 6.261 | 63  | 652502  | 49.809  | ug/l   | 99  |
| 25) 2-Butanone               | 7.209 | 43  | 379229  | 239.921 | ug/l   | 97  |
| 26) 2,2-Dichloropropane      | 7.209 | 77  | 519601  | 48.517  | ug/l   | 100 |
| 27) cis-1,2-Dichloroethene   | 7.209 | 96  | 401420  | 52.302  | ug/l   | 98  |
| 28) Bromochloromethane       | 7.550 | 49  | 265200  | 51.687  | ug/l   | 97  |
| 29) Tetrahydrofuran          | 7.556 | 42  | 223182  | 257.545 | ug/l   | 100 |
| 30) Chloroform               | 7.708 | 83  | 704927  | 50.904  | ug/l   | 95  |
| 31) Cyclohexane              | 7.985 | 56  | 493939  | 49.640  | ug/l   | 97  |
| 32) 1,1,1-Trichloroethane    | 7.897 | 97  | 583353  | 51.119  | ug/l   | 98  |
| 36) 1,1-Dichloropropene      | 8.108 | 75  | 524707  | 53.321  | ug/l   | 99  |
| 37) Ethyl Acetate            | 7.291 | 43  | 183704  | 50.307  | ug/l   | 99  |
| 38) Carbon Tetrachloride     | 8.097 | 117 | 520021  | 53.396  | ug/l   | 97  |
| 39) Methylcyclohexane        | 9.355 | 83  | 526695  | 54.259  | ug/l   | 98  |
| 40) Benzene                  | 8.350 | 78  | 1514292 | 53.379  | ug/l   | 98  |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 6/23/2021 5:31:08 PM

Quant Time: Jun 23 04:25:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 110454m  | 51.977   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 419917   | 50.949   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 327802   | 49.413   | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 372993   | 52.105   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 385175   | 52.892   | ug/l   | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 202351   | 53.055   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.655  | 83   | 531599   | 51.906   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.455  | 41   | 162332   | 51.510   | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 40378    | 1074.725 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 921628   | 264.185  | ug/l   | 99       |
| 52) Toluene                   | 10.402 | 92   | 949427   | 54.237   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 451017   | 50.933   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 543780   | 51.067   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 279419   | 51.881   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 301271   | 47.706   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 478568   | 52.590   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 838186   | 252.861  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 608107   | 258.313  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.138 | 129  | 335575   | 52.864   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 257154   | 51.784   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 310271   | 51.503   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.667 | 112  | 977734   | 51.244   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 359503   | 51.827   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1799023  | 53.977   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 1391215  | 110.859  | ug/l   | 97       |
| 69) o-Xylene                  | 12.173 | 106  | 620961   | 55.200   | ug/l   | 99       |
| 70) Styrene                   | 12.191 | 104  | 1107179  | 55.876   | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 177015   | 50.356   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.473 | 105  | 1667337  | 53.378   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 312907   | 49.339   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 310774   | 49.533   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 230303m  | 51.749   | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 370996   | 52.304   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.814 | 91   | 2132283  | 54.387   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 1188017  | 53.042   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 1456147  | 55.394   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 81426    | 45.684   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 1265913  | 52.716   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 1196984  | 50.810   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 1434457  | 54.893   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 1770019  | 54.006   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 1526374  | 55.328   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 752497   | 51.800   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 741782   | 51.253   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 1470084  | 53.417   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.102 | 117  | 276847   | 51.337   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 641852   | 51.074   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 45581    | 47.881   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 363810   | 51.895   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 228134   | 51.865   | ug/l   | 99       |
| 95) Naphthalene               | 15.390 | 128  | 637214   | 45.446   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.585 | 180  | 323431   | 52.341   | ug/l   | 99       |

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Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
6/23/2021 5:31:08 PM

Quant Time: Jun 23 04:25:43 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 22 04:33:24 2021  
Response via : Initial Calibration

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

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

