

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072621\  
 Data File : VD069841.D  
 Acq On : 26 Jul 2021 11:31  
 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

7/27/2021 12:14:18 PM

Quant Time: Jul 27 05:08:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 664988     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 1157835    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 1083094    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 504962     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 364507     | 47.661   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.320%  |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 362680     | 49.689   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.380%  |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 1416835    | 50.342   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 100.680% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 482241     | 51.270   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 102.540% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 291718     | 41.678   | ug/l   | 100      |
| 3) Chloromethane             | 2.209          | 50   | 409310     | 40.313   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.344          | 62   | 451619     | 42.290   | ug/l   | 95       |
| 5) Bromomethane              | 2.756          | 94   | 283381     | 44.780   | ug/l   | 94       |
| 6) Chloroethane              | 2.915          | 64   | 294349     | 42.525   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 572018     | 43.389   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.703          | 74   | 173719     | 46.847   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 363836     | 43.455   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 353595     | 43.274   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 92848      | 234.619  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 344732     | 45.309   | ug/l   | 97       |
| 13) Acrolein                 | 3.921          | 56   | 163023     | 294.280  | ug/l   | 99       |
| 14) Allyl chloride           | 4.709          | 41   | 525933     | 47.148   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.415          | 53   | 414338     | 237.524  | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 403825     | 292.293  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.409          | 76   | 1160595    | 42.662   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.709          | 43   | 174078     | 43.426   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 768700     | 48.763   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.962          | 84   | 452115     | 44.485   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 399032     | 44.508   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.356          | 45   | 1160824    | 47.889   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2956126    | 224.000  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 725550     | 43.336   | ug/l   | 99       |
| 25) 2-Butanone               | 7.203          | 43   | 472477     | 252.178  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 604488     | 47.482   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 429988     | 44.947   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.544          | 49   | 317038     | 49.875   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 305416     | 251.962  | ug/l   | 98       |
| 30) Chloroform               | 7.709          | 83   | 720721     | 42.816   | ug/l   | 98       |
| 31) Cyclohexane              | 7.979          | 56   | 673871     | 45.095   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 616126     | 44.220   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 569509     | 45.579   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 222312     | 48.873   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 532498     | 46.656   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.350          | 83   | 685773     | 47.922   | ug/l   | 99       |
| 40) Benzene                  | 8.350          | 78   | 1616886    | 44.667   | ug/l   | 100      |

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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  
 APPROVED

MMDadoda

7/27/2021 12:14:18 PM

Quant Time: Jul 27 05:08:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 100660   | 42.168  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 422362   | 44.119  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 399662   | 48.989  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 397956   | 44.641  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 425386   | 44.738  | ug/l   | 99       |
| 46) Dibromomethane            | 9.473  | 93   | 195392   | 41.806  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.656  | 83   | 540367   | 44.500  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.450  | 41   | 183837   | 42.744  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 45603    | 923.521 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 1085376  | 255.666 | ug/l   | 99       |
| 52) Toluene                   | 10.397 | 92   | 1024780  | 46.668  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 493949   | 48.461  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 586261   | 47.509  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 294543   | 44.617  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 367032   | 45.360  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 520080   | 46.558  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 916739   | 254.914 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.979 | 43   | 769329   | 273.971 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.132 | 129  | 339637   | 45.428  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 276122   | 46.457  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 306997   | 44.466  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 1026295  | 45.736  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 366578   | 45.412  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1912694  | 48.415  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.850 | 106  | 1489098  | 97.232  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 674249   | 48.427  | ug/l   | 100      |
| 70) Styrene                   | 12.191 | 104  | 1195414  | 49.544  | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 183650   | 46.847  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.473 | 105  | 1806188  | 49.782  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 386307   | 51.764  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 340165   | 46.947  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 235519m  | 43.880  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 381750   | 46.716  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.814 | 91   | 2320141  | 49.789  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 1292623  | 47.755  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1539133  | 49.590  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 95059    | 53.729  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 1360711  | 48.084  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 1247149  | 49.423  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 1518472  | 49.593  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 2007449  | 50.322  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 1620653  | 50.006  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 782287   | 45.597  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 773539   | 45.236  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 1610252  | 50.344  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 320294   | 46.655  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 685762   | 46.311  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 48755    | 46.729  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 395157   | 49.461  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 229595   | 46.979  | ug/l   | 99       |
| 95) Naphthalene               | 15.390 | 128  | 739152   | 45.305  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 349250   | 50.549  | 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  
APPROVED

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7/27/2021 12:14:18 PM

Quant Time: Jul 27 05:08:18 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 23 04:51:13 2021  
Response via : Initial Calibration

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

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

