

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD050521\  
 Data File : VD069064.D  
 Acq On : 05 May 2021 12:29  
 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

5/6/2021 5:38:56 PM

Quant Time: May 05 14:02:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 05 04:16:41 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 255786     | 50.00   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 432346     | 50.00   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 419064     | 50.00   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 199400     | 50.00   | ug/l  | 0.00     |
|                              |                |      |            |         |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 160052     | 48.55   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.10%  |       |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 150174     | 50.65   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 101.30% |       |          |
| 50) Toluene-d8               | 10.338         | 98   | 567978     | 51.89   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 103.78% |       |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 187084     | 51.96   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 103.92% |       |          |
|                              |                |      |            |         |       |          |
| Target Compounds             |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 134819     | 43.34   | ug/l  | 93       |
| 3) Chloromethane             | 2.209          | 50   | 159850     | 41.75   | ug/l  | 95       |
| 4) Vinyl Chloride            | 2.344          | 62   | 207017     | 40.89   | ug/l  | 98       |
| 5) Bromomethane              | 2.756          | 94   | 132881     | 44.11   | ug/l  | 99       |
| 6) Chloroethane              | 2.915          | 64   | 126441     | 42.95   | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.262          | 101  | 237036     | 42.64   | ug/l  | 94       |
| 8) Diethyl Ether             | 3.703          | 74   | 58388      | 43.23   | ug/l  | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.085          | 101  | 129969     | 43.66   | ug/l  | 98       |
| 10) Methyl Iodide            | 4.291          | 142  | 105854     | 40.10   | ug/l  | 100      |
| 11) Tert butyl alcohol       | 5.220          | 59   | 51205      | 245.37  | ug/l  | 96       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 118610     | 44.25   | ug/l  | 87       |
| 13) Acrolein                 | 3.915          | 56   | 48515      | 245.59  | ug/l  | 99       |
| 14) Allyl chloride           | 4.714          | 41   | 159552     | 46.19   | ug/l  | 99       |
| 15) Acrylonitrile            | 5.426          | 53   | 134210     | 228.61  | ug/l  | 97       |
| 16) Acetone                  | 4.156          | 43   | 128531     | 280.69  | ug/l  | 97       |
| 17) Carbon Disulfide         | 4.397          | 76   | 381847     | 42.14   | ug/l  | 99       |
| 18) Methyl Acetate           | 4.714          | 43   | 58087      | 45.24   | ug/l  | 95       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 285045     | 46.52   | ug/l  | 97       |
| 20) Methylene Chloride       | 4.962          | 84   | 153307     | 47.06   | ug/l  | 94       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 136881     | 42.98   | ug/l  | 91       |
| 22) Diisopropyl ether        | 6.367          | 45   | 351252     | 45.56   | ug/l  | 93       |
| 23) Vinyl Acetate            | 6.303          | 43   | 1059185    | 240.30  | ug/l  | 100      |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 232698     | 42.73   | ug/l  | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 167317     | 237.41  | ug/l  | 98       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 227685     | 44.76   | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 150732     | 43.85   | ug/l  | 95       |
| 28) Bromochloromethane       | 7.544          | 49   | 109331     | 49.73   | ug/l  | 99       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 101945     | 235.15  | ug/l  | 99       |
| 30) Chloroform               | 7.708          | 83   | 258512     | 42.44   | ug/l  | 99       |
| 31) Cyclohexane              | 7.985          | 56   | 207347     | 43.37   | ug/l  | 97       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 238627     | 42.90   | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 203242     | 44.68   | ug/l  | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 76047      | 44.34   | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 215942     | 43.77   | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.350          | 83   | 237840     | 47.82   | ug/l  | 99       |
| 40) Benzene                  | 8.350          | 78   | 546243     | 43.40   | ug/l  | 97       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
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Manual Integrations  
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MMDadoda

5/6/2021 5:38:56 PM

Quant Time: May 05 14:02:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 05 04:16:41 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 45733m   | 46.00  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 169218   | 43.01  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 147533   | 45.88  | ug/l   | 100      |
| 44) Trichloroethene           | 9.114  | 130  | 145397   | 43.45  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 133004   | 42.92  | ug/l   | 89       |
| 46) Dibromomethane            | 9.473  | 93   | 76405    | 42.90  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.661  | 83   | 204004   | 43.56  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.450  | 41   | 75660    | 47.73  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 19355    | 939.76 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 385671   | 234.31 | ug/l   | 99       |
| 52) Toluene                   | 10.402 | 92   | 350744   | 43.91  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 186867   | 45.91  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 211133   | 43.87  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 101754   | 43.02  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 121864   | 43.13  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 177202   | 44.44  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 362418   | 264.60 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.985 | 43   | 276681   | 249.05 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.138 | 129  | 136939   | 43.51  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 100907   | 43.95  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 115615   | 42.81  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.667 | 112  | 376188   | 43.99  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 140323   | 43.36  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.744 | 91   | 693634   | 45.74  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.849 | 106  | 519346   | 91.09  | ug/l   | 99       |
| 69) o-Xylene                  | 12.179 | 106  | 238131   | 46.59  | ug/l   | 99       |
| 70) Styrene                   | 12.191 | 104  | 411084   | 45.54  | ug/l   | 100      |
| 71) Bromoform                 | 12.355 | 173  | 72966    | 43.99  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 662077   | 47.97  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.285 | 43   | 142427   | 49.14  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 118441   | 43.77  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 77765m   | 44.80  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 147242   | 46.08  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 813809   | 48.00  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 435121   | 46.02  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 559542   | 47.62  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 39864    | 49.97  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 458789   | 45.32  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 468458   | 48.93  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 565011   | 48.13  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 664259   | 47.93  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 606875   | 47.44  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 290941   | 45.37  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 283146   | 44.80  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.838 | 91   | 598599   | 49.31  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.102 | 117  | 119071   | 45.28  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 250304   | 44.89  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 20022    | 44.99  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 155163   | 46.91  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 85774    | 44.78  | ug/l   | 98       |
| 95) Naphthalene               | 15.390 | 128  | 302494   | 44.87  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 134881   | 47.22  | ug/l   | 97       |

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Quant Title : SW846 8260  
QLast Update : Wed May 05 04:16:41 2021  
Response via : Initial Calibration

| 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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