

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021621\  
 Data File : VD068374.D  
 Acq On : 16 Feb 2021 17:30  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/17/2021 12:28:27 PM

Quant Time: Feb 17 00:06:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 13:30:51 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.985          | 168  | 360409             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 644227             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 600091             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 268679             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.338          | 65   | 213610             | 57.98  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 115.96% |        |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 207455             | 54.25  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 108.50% |        |        |          |
| 50) Toluene-d8               | 10.344         | 98   | 829373             | 52.33  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 104.66% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 267529             | 51.82  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 103.64% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 129332             | 39.16  | ug/l   | 93       |
| 3) Chloromethane             | 2.209          | 50   | 174732             | 44.44  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.350          | 62   | 198107             | 42.09  | ug/l   | 96       |
| 5) Bromomethane              | 2.773          | 94   | 145547             | 43.26  | ug/l   | 99       |
| 6) Chloroethane              | 2.926          | 64   | 135952             | 44.22  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 243711             | 42.07  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.714          | 74   | 81851              | 48.11  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 150616             | 42.72  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.309          | 142  | 148422             | 44.83  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 47518              | 257.24 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 145196             | 42.36  | ug/l   | 96       |
| 13) Acrolein                 | 3.926          | 56   | 70801              | 335.18 | ug/l   | 98       |
| 14) Allyl chloride           | 4.720          | 41   | 209695             | 47.05  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.426          | 53   | 185459             | 252.54 | ug/l   | 98       |
| 16) Acetone                  | 4.162          | 43   | 129248             | 227.37 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.414          | 76   | 418884             | 42.20  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.720          | 43   | 79440              | 50.92  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 379104             | 49.02  | ug/l   | 94       |
| 20) Methylene Chloride       | 4.973          | 84   | 187802             | 47.38  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 178042             | 44.88  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.361          | 45   | 490134             | 49.70  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.308          | 43   | 1300364            | 255.36 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.273          | 63   | 321062             | 47.58  | ug/l   | 98       |
| 25) 2-Butanone               | 7.214          | 43   | 202549             | 254.84 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 246858             | 42.77  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 213125             | 47.26  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.550          | 49   | 164210             | 58.67  | ug/l # | 78       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 132048             | 256.84 | ug/l   | 96       |
| 30) Chloroform               | 7.714          | 83   | 336189             | 47.90  | ug/l   | 96       |
| 31) Cyclohexane              | 7.985          | 56   | 255610             | 46.49  | ug/l   | 87       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 276828             | 45.64  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 244689             | 42.93  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.291          | 43   | 92961              | 48.27  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.102          | 117  | 230838             | 42.46  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.355          | 83   | 285382             | 40.82  | ug/l   | 95       |
| 40) Benzene                  | 8.355          | 78   | 741346             | 45.60  | ug/l   | 95       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Manual Integrations  
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 2/17/2021 12:28:27 PM

Quant Time: Feb 17 00:06:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 13:30:51 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.532  | 41   | 54798    | 49.43  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 202952   | 46.80  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 183800   | 49.84  | ug/l   | 97       |
| 44) Trichloroethene           | 9.114  | 130  | 194058   | 43.86  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 187238   | 47.20  | ug/l   | 94       |
| 46) Dibromomethane            | 9.479  | 93   | 98752    | 45.89  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.667  | 83   | 260808   | 46.75  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 87183    | 47.37  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 24084    | 957.96 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 476304   | 251.47 | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 475035   | 45.45  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 242841   | 47.03  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 292376   | 46.35  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 143252   | 48.19  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 175879   | 49.86  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.949 | 76   | 248504   | 47.64  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 515684   | 273.04 | ug/l   | 92       |
| 59) 2-Hexanone                | 10.985 | 43   | 324847   | 253.71 | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.144 | 129  | 171078   | 46.38  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 134047   | 46.66  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.879 | 164  | 151647   | 41.07  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.673 | 112  | 516078   | 44.73  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 182044   | 45.22  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.743 | 91   | 919943   | 44.47  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.855 | 106  | 675602   | 86.41  | ug/l   | 98       |
| 69) o-Xylene                  | 12.179 | 106  | 319238   | 44.51  | ug/l   | 99       |
| 70) Styrene                   | 12.196 | 104  | 557930   | 44.72  | ug/l   | 99       |
| 71) Bromoform                 | 12.361 | 173  | 94457    | 45.66  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.479 | 105  | 867267   | 44.19  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.291 | 43   | 169322   | 48.86  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 164057   | 48.24  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.785 | 75   | 117187m  | 45.84  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 196883   | 44.91  | ug/l   | 89       |
| 78) n-propylbenzene           | 12.820 | 91   | 1021746  | 43.49  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 571209   | 43.90  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 709736   | 44.26  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 47112    | 46.19  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 615036   | 44.71  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 606753   | 43.61  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 721308   | 45.15  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.402 | 105  | 847695   | 43.57  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 766258   | 43.87  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 373241   | 44.00  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.596 | 146  | 367362   | 43.53  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.843 | 91   | 735032   | 43.12  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.108 | 117  | 139934   | 44.12  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.890 | 146  | 328011   | 44.60  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 23673    | 47.61  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.161 | 180  | 216304   | 44.90  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.267 | 225  | 112828   | 42.58  | ug/l   | 98       |
| 95) Naphthalene               | 15.396 | 128  | 428558   | 47.86  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 183799   | 43.74  | ug/l   | 100      |

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Quant Time: Feb 17 00:06:11 2021  
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Quant Title : SW846 8260  
QLast Update : Fri Feb 12 13:30:51 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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