

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051221\  
 Data File : VD069134.D  
 Acq On : 12 May 2021 12:33  
 Operator : VA/SY  
 Sample : VSTDIC020  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

MMDadoda  
 5/13/2021 4:05:44 PM

Quant Time: May 13 03:32:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 03:30:25 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 286019     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 477973     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 449774     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.572         | 152  | 223363     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 60726      | 21.18   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 42.36%# |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 64049      | 20.59   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 41.18%# |        |          |
| 50) Toluene-d8               | 10.337         | 98   | 233953     | 20.47   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 40.94%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.625         | 95   | 71794      | 19.52   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 39.04%  |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 64138      | 21.09   | ug/l   | 98       |
| 3) Chloromethane             | 2.214          | 50   | 74282      | 21.25   | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.349          | 62   | 93409      | 20.28   | ug/l   | 99       |
| 5) Bromomethane              | 2.755          | 94   | 67367      | 19.44   | ug/l   | 99       |
| 6) Chloroethane              | 2.920          | 64   | 60266      | 20.34   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 117486     | 20.90   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.708          | 74   | 25325      | 19.74   | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 66231      | 20.79   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.302          | 142  | 57054      | 18.79   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 16772      | 85.58   | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 57522      | 20.10   | ug/l # | 87       |
| 13) Acrolein                 | 3.932          | 56   | 21802      | 93.45   | ug/l   | 95       |
| 14) Allyl chloride           | 4.720          | 41   | 62308      | 19.85   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 48325      | 100.92  | ug/l   | 97       |
| 16) Acetone                  | 4.167          | 43   | 42597      | 97.00   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.414          | 76   | 196024     | 20.66   | ug/l   | 95       |
| 18) Methyl Acetate           | 4.714          | 43   | 21016      | 19.70   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.485          | 73   | 103417     | 19.92   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.967          | 84   | 90789      | 19.53   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 69019      | 20.34   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.361          | 45   | 127338     | 20.31   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.302          | 43   | 358057     | 96.77   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 111726     | 20.63   | ug/l   | 94       |
| 25) 2-Butanone               | 7.214          | 43   | 57216      | 96.15   | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 99781      | 19.70   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 75131      | 20.39   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.543          | 49   | 38563      | 19.97   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 31968      | 98.82   | ug/l   | 98       |
| 30) Chloroform               | 7.708          | 83   | 124717     | 20.45   | ug/l   | 100      |
| 31) Cyclohexane              | 7.990          | 56   | 81963      | 19.29   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 110450     | 19.96   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 91602      | 19.71   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.296          | 43   | 29455      | 19.73   | ug/l # | 76       |
| 38) Carbon Tetrachloride     | 8.096          | 117  | 105451     | 20.30   | ug/l   | 93       |
| 39) Methylcyclohexane        | 9.355          | 83   | 94683      | 19.32   | ug/l   | 94       |
| 40) Benzene                  | 8.355          | 78   | 263852     | 19.82   | ug/l   | 100      |

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 Sample : VSTDICC020  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

MMDadoda  
 5/13/2021 4:05:44 PM

Quant Time: May 13 03:32:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 03:30:25 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 13586    | 18.49  | ug/l # | 89       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 71499    | 19.67  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 49827    | 18.38  | ug/l   | 97       |
| 44) Trichloroethene           | 9.114  | 130  | 74062    | 19.91  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.384  | 63   | 61576    | 19.60  | ug/l   | 95       |
| 46) Dibromomethane            | 9.473  | 93   | 35893    | 19.11  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.661  | 83   | 94944    | 19.87  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 22232    | 17.73  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 7301     | 413.34 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 131095   | 93.98  | ug/l   | 97       |
| 52) Toluene                   | 10.402 | 92   | 169045   | 19.68  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 81645    | 19.44  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.090 | 75   | 99332    | 19.79  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 50360    | 19.89  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 46478    | 18.39  | ug/l # | 92       |
| 57) 1,3-Dichloropropane       | 10.949 | 76   | 79583    | 19.45  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether | 9.943  | 63   | 125176   | 99.89  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.984 | 43   | 88122    | 94.67  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.137 | 129  | 62888    | 19.34  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 50075    | 20.02  | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.873 | 164  | 62278    | 19.92  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 184178   | 19.76  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.737 | 131  | 70593    | 20.08  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.743 | 91   | 310081   | 19.33  | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.849 | 106  | 250362   | 39.82  | ug/l   | 99       |
| 69) o-Xylene                  | 12.178 | 106  | 110279   | 19.72  | ug/l   | 100      |
| 70) Styrene                   | 12.190 | 104  | 195887   | 20.07  | ug/l   | 98       |
| 71) Bromoform                 | 12.361 | 173  | 35236    | 19.27  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.478 | 105  | 295861   | 18.95  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.284 | 43   | 47431    | 18.58  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.725 | 83   | 54033    | 19.10  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.778 | 75   | 34623m   | 20.70  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 72180    | 19.48  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.820 | 91   | 367053   | 19.49  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 207972   | 19.84  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 256289   | 19.91  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 15960    | 19.20  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 221587   | 19.85  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 205511   | 19.16  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 255337   | 19.72  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.396 | 105  | 317249   | 19.67  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 271929   | 19.19  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 147170   | 19.63  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 146870   | 19.78  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.837 | 91   | 251392   | 19.04  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.108 | 117  | 52846    | 19.90  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.884 | 146  | 125573   | 19.50  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 7901     | 17.99  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 72106    | 18.27  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 42686    | 18.03  | ug/l   | 94       |
| 95) Naphthalene               | 15.396 | 128  | 118517   | 17.93  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 65101    | 19.28  | ug/l   | 96       |

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ALS Vial : 6 Sample Multiplier: 1

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5/13/2021 4:05:44 PM

Quant Time: May 13 03:32:44 2021  
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Quant Title : SW846 8260  
QLast Update : Thu May 13 03:30:25 2021  
Response via : Initial Calibration

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

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

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