

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052021\  
 Data File : VD069228.D  
 Acq On : 20 May 2021 19:44  
 Operator : VA/SY  
 Sample : M2472-13MSD  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW8-GW-938-940MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/21/2021 1:48:13 PM

Quant Time: May 21 00:57:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 57735               | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 99288               | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 96949               | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 31251               | 50.00   | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 57680               | 99.66   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 199.32%# |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 47315               | 73.23   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 146.46%  |         |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 131805              | 55.52   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 111.04%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 36912               | 48.32   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 96.64%   |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 34680               | 56.50   | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 54350               | 77.04   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.344          | 62   | 60019               | 64.55   | ug/l   | 96       |
| 5) Bromomethane              | 2.762          | 94   | 46405               | 66.34   | ug/l   | 95       |
| 6) Chloroethane              | 2.920          | 64   | 44152               | 73.81   | ug/l   | 89       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 65123               | 57.40   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.709          | 74   | 26336               | 101.69  | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 35014               | 54.46   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.303          | 142  | 26375               | 39.61   | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 33907               | 1286.39 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 34960               | 60.52   | ug/l   | 96       |
| 13) Acrolein                 | 3.920          | 56   | 27749               | 589.25  | ug/l   | 90       |
| 14) Allyl chloride           | 4.708          | 41   | 38963               | 61.49   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.420          | 53   | 90172               | 932.88  | ug/l   | 99       |
| 16) Acetone                  | 4.161          | 43   | 81968               | 924.67  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.403          | 76   | 101847              | 53.19   | ug/l # | 91       |
| 18) Methyl Acetate           | 4.714          | 43   | 42723               | 198.36  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 119373              | 113.88  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.961          | 84   | 74942               | 115.87  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 41496               | 60.59   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.361          | 45   | 111788              | 88.33   | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.308          | 43   | 460346              | 616.38  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 81350               | 74.41   | ug/l   | 94       |
| 25) 2-Butanone               | 7.214          | 43   | 115372              | 960.46  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 61921               | 60.56   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 52298               | 70.33   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.550          | 49   | 40296               | 103.39  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 66205               | 1013.90 | ug/l   | 97       |
| 30) Chloroform               | 7.708          | 83   | 94461               | 76.74   | ug/l   | 91       |
| 31) Cyclohexane              | 7.985          | 56   | 33585               | 39.15   | ug/l # | 81       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 67737               | 60.65   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 47244               | 48.94   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.291          | 43   | 49483               | 159.55  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 54805               | 50.79   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.355          | 83   | 29569               | 29.04   | ug/l   | 98       |
| 40) Benzene                  | 8.349          | 78   | 173641              | 62.80   | ug/l   | 98       |

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 Sample : M2472-13MSD  
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 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW8-GW-938-940MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/21/2021 1:48:13 PM

Quant Time: May 21 00:57:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 22049m   | 133.56  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 75176    | 99.57   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.449  | 43   | 83094    | 147.54  | ug/l   | 95       |
| 44) Trichloroethene           | 9.114  | 130  | 40628    | 52.57   | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 47379    | 72.60   | ug/l   | 99       |
| 46) Dibromomethane            | 9.479  | 93   | 40665    | 104.23  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.661  | 83   | 79734    | 80.31   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 34448    | 132.27  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 14347    | 3813.76 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 239042   | 824.96  | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 98711    | 55.31   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 70629    | 80.96   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 73157    | 70.15   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 54824    | 104.26  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 56091    | 96.52   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 87463    | 102.92  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 6032     | 23.17   | ug/l   | 96       |
| 59) 2-Hexanone                | 10.985 | 43   | 167457   | 866.05  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.138 | 129  | 58339    | 86.38   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 54506    | 104.88  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 26431    | 39.23   | ug/l # | 88       |
| 65) Chlorobenzene             | 11.667 | 112  | 104749   | 52.13   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 51738    | 68.28   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.743 | 91   | 143701   | 41.55   | ug/l   | 91       |
| 68) m/p-Xylenes               | 11.849 | 106  | 116345   | 85.85   | ug/l   | 96       |
| 69) o-Xylene                  | 12.179 | 106  | 54127    | 44.91   | ug/l   | 99       |
| 70) Styrene                   | 12.190 | 104  | 59415    | 28.24   | ug/l   | 95       |
| 71) Bromoform                 | 12.355 | 173  | 38427    | 97.50   | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.473 | 105  | 119628   | 54.77   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.285 | 43   | 54419    | 152.34  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 74948    | 189.35  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 54137m   | 230.45  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 39104    | 75.45   | ug/l   | 74       |
| 78) n-propylbenzene           | 12.814 | 91   | 132639   | 50.33   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 80411    | 54.84   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 85120    | 47.27   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 21325    | 183.36  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 83109    | 53.20   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 75485    | 50.30   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 88234    | 48.70   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 88121    | 39.05   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 77439    | 39.06   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 49846    | 47.52   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 49385    | 47.53   | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.832 | 91   | 60556    | 32.78   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.102 | 117  | 18285    | 49.21   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 47897    | 53.17   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 10122    | 164.76  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 12353    | 22.38   | ug/l   | 93       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 9656     | 29.14   | ug/l   | 89       |
| 95) Naphthalene               | 15.390 | 128  | 39491    | 39.08   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 11833    | 25.05   | ug/l   | 96       |

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 Sample : M2472-13MSD  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_D  
**ClientSampleId :**  
 BP-VPB-RW8-GW-938-940MSD

**Manual Integrations**  
**APPROVED**

MMDadoda  
 5/21/2021 1:48:13 PM

Quant Time: May 21 00:57:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 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

