

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072321\  
 Data File : VD069827.D  
 Acq On : 23 Jul 2021 14:25  
 Operator : VA/SY  
 Sample : M2940-02 5PPBLOQ  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2021

Manual Integrations  
 APPROVED

MMDadoda  
 7/26/2021 5:19:08 PM

Quant Time: Jul 24 02:18:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 24 02:17:06 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 523540              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 977748              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 905746              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 408902              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 354900              | 58.942 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 117.880% |        |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 353142              | 57.294 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 114.580% |        |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 1343030             | 56.508 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 113.020% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 430547              | 54.205 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 108.400% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 33216               | 6.028  | ug/l   | 99       |
| 3) Chloromethane             | 2.209          | 50   | 45992               | 5.754  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.350          | 62   | 47983               | 5.707  | ug/l   | 94       |
| 5) Bromomethane              | 2.768          | 94   | 36382               | 6.607  | ug/l   | 92       |
| 6) Chloroethane              | 2.920          | 64   | 30455               | 5.589  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 63618               | 6.129  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.703          | 74   | 17580               | 6.022  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 40810               | 6.191  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.303          | 142  | 28344               | 4.921  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.185          | 59   | 13124m              | 42.123 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 33688               | 5.624  | ug/l   | 97       |
| 13) Acrolein                 | 3.914          | 56   | 12138               | 27.831 | ug/l # | 14       |
| 14) Allyl chloride           | 4.714          | 41   | 47009               | 5.353  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.432          | 53   | 36628               | 26.670 | ug/l   | 97       |
| 16) Acetone                  | 4.156          | 43   | 33813               | 31.087 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.409          | 76   | 120376              | 5.620  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.720          | 43   | 20304               | 6.434  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 63720               | 5.134  | ug/l   | 94       |
| 20) Methylene Chloride       | 4.967          | 84   | 200565              | 20.245 | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 41667               | 5.903  | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.361          | 45   | 96323               | 5.047  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.303          | 43   | 206388              | 22.576 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 75382               | 5.719  | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 38695               | 26.233 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 60932               | 6.079  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 41312               | 5.485  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.544          | 49   | 28229               | 5.641  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 23712               | 24.847 | ug/l   | 99       |
| 30) Chloroform               | 7.708          | 83   | 77318               | 5.834  | ug/l   | 93       |
| 31) Cyclohexane              | 7.985          | 56   | 71036               | 6.038  | ug/l # | 78       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 64830               | 5.910  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 53642               | 5.084  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.285          | 43   | 18133               | 4.721  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 51325               | 5.325  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.355          | 83   | 58616               | 4.851  | ug/l   | 95       |
| 40) Benzene                  | 8.350          | 78   | 166017              | 5.431  | ug/l   | 97       |

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 Sample : M2940-02 5PPBLOQ  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2021

Manual Integrations  
 APPROVED

MMDadoda  
 7/26/2021 5:19:08 PM

Quant Time: Jul 24 02:18:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 24 02:17:06 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 11573    | 5.741  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 44467    | 5.500  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 35191    | 5.108  | ug/l   | 94       |
| 44) Trichloroethene           | 9.108  | 130  | 42695    | 5.671  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 43613    | 5.432  | ug/l   | 95       |
| 46) Dibromomethane            | 9.479  | 93   | 21682    | 5.493  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.655  | 83   | 56925    | 5.551  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.455  | 41   | 17672m   | 5.332  | ug/l   |          |
| 49) 1,4-Dioxane               | 9.455  | 88   | 4127     | 98.971 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 88828    | 24.778 | ug/l   | 95       |
| 52) Toluene                   | 10.402 | 92   | 100102   | 5.398  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 48132    | 5.592  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 56128    | 5.386  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 30672    | 5.502  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 30404    | 4.981  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 49974    | 5.298  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 65563    | 25.075 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.979 | 43   | 55932    | 23.587 | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.138 | 129  | 34417    | 5.451  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 25773    | 5.135  | ug/l   | 91       |
| 64) Tetrachloroethene         | 10.873 | 164  | 34003    | 5.889  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.667 | 112  | 108771   | 5.796  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 39172    | 5.803  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.738 | 91   | 165203   | 5.001  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.843 | 106  | 123763   | 9.664  | ug/l   | 98       |
| 69) o-Xylene                  | 12.173 | 106  | 54160    | 4.652  | ug/l   | 97       |
| 70) Styrene                   | 12.191 | 104  | 93716    | 4.645  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 17667    | 5.389  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.473 | 105  | 140808   | 4.793  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.279 | 43   | 29484    | 4.879  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 35174    | 5.995  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 25151m   | 5.787  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 37353    | 5.645  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 195886   | 5.191  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 118207   | 5.393  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 121908   | 4.851  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 7964     | 5.559  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 117387   | 5.123  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 96226    | 4.709  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 116643   | 4.704  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 157297   | 4.869  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 120795   | 4.603  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 76467    | 5.504  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 77266    | 5.580  | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.832 | 91   | 125167   | 4.833  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 30752    | 5.532  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 65550    | 5.467  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 5136     | 6.079  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 33561    | 5.188  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 22486    | 5.682  | ug/l   | 96       |
| 95) Naphthalene               | 15.384 | 128  | 54453    | 4.715  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 28910    | 5.167  | ug/l   | 98       |

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
LOQ-SOIL-02-QT3-2021

Manual Integrations  
APPROVED

MMDadoda  
7/26/2021 5:19:08 PM

Quant Time: Jul 24 02:18:54 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 24 02:17:06 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

