

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031621\  
 Data File : VY004090.D  
 Acq On : 16 Mar 2021 12:07  
 Operator : SY/MD  
 Sample : M1458-01 4PPBLOD  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2021

Manual Integrations  
 APPROVED

MMDadoda  
 3/17/2021 11:46:22 AM

Quant Time: Mar 17 01:56:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 01:54:50 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 228581     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 359029     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 321729     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 161994     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.155          | 65   | 103951     | 46.08  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 92.16% |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 98357      | 48.58  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.16% |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 376029     | 47.37  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 94.74% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 136553     | 46.58  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 93.16% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 8122       | 4.42   | ug/l   | 99       |
| 3) Chloromethane             | 2.119          | 50   | 10839      | 4.39   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.259          | 62   | 12050      | 4.36   | ug/l   | 99       |
| 5) Bromomethane              | 2.662          | 94   | 9105       | 5.16   | ug/l   | 95       |
| 6) Chloroethane              | 2.808          | 64   | 7271       | 4.32   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 15341      | 4.18   | ug/l   | 87       |
| 8) Diethyl Ether             | 3.540          | 74   | 4917       | 4.18   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 8399       | 4.09   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.107          | 142  | 7819       | 3.73   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 4490       | 22.02  | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 3.893          | 96   | 8376       | 4.17   | ug/l   | 82       |
| 13) Acrolein                 | 3.741          | 56   | 3378       | 16.70  | ug/l   | 89       |
| 14) Allyl chloride           | 4.497          | 41   | 12273      | 3.69   | ug/l   | 91       |
| 15) Acrylonitrile            | 5.192          | 53   | 10707      | 18.31  | ug/l   | 99       |
| 16) Acetone                  | 3.960          | 43   | 9457       | 17.37  | ug/l # | 86       |
| 17) Carbon Disulfide         | 4.210          | 76   | 24163      | 4.09   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.491          | 43   | 6264       | 4.66   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 22887      | 4.00   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.735          | 84   | 12512      | 4.76   | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.241          | 96   | 9475       | 4.20   | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.131          | 45   | 25948      | 3.70   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.076          | 43   | 80507      | 17.43  | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 14785      | 3.80   | ug/l   | 96       |
| 25) 2-Butanone               | 7.009          | 43   | 13851      | 17.65  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 14199      | 3.82   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 10190      | 3.96   | ug/l   | 94       |
| 28) Bromochloromethane       | 7.344          | 49   | 6414       | 3.77   | ug/l # | 82       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 8937       | 17.53  | ug/l   | 88       |
| 30) Chloroform               | 7.521          | 83   | 16215      | 4.02   | ug/l   | 87       |
| 31) Cyclohexane              | 7.795          | 56   | 18351      | 4.64   | ug/l # | 63       |
| 32) 1,1,1-Trichloroethane    | 7.716          | 97   | 14964      | 4.00   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 12904      | 4.09   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.088          | 43   | 6201       | 3.65   | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.917          | 117  | 13260      | 3.96   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.191          | 83   | 16425      | 4.03   | ug/l   | 91       |
| 40) Benzene                  | 8.173          | 78   | 36301      | 4.09   | ug/l   | 93       |

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 ALS Vial : 7 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 01:54:50 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 41) Methacrylonitrile         | 7.332  | 41   | 3758m    | 3.57  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 10804    | 3.98  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 12711    | 3.73  | ug/l   | 98       |
| 44) Trichloroethene           | 8.947  | 130  | 11034    | 4.29  | ug/l   | 84       |
| 45) 1,2-Dichloropropane       | 9.228  | 63   | 8864     | 4.00  | ug/l   | 99       |
| 46) Dibromomethane            | 9.313  | 93   | 5140     | 4.05  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.508  | 83   | 12459    | 3.93  | ug/l # | 92       |
| 48) Methyl methacrylate       | 9.301  | 41   | 5416     | 3.34  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 1277     | 79.09 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 30160    | 17.47 | ug/l   | 96       |
| 52) Toluene                   | 10.252 | 92   | 23097    | 4.01  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 12465    | 3.73  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 14365    | 3.84  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 7472     | 4.19  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 9524     | 3.82  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 11997    | 3.93  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 25489    | 23.04 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.837 | 43   | 20708    | 17.07 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.990 | 129  | 8844     | 3.95  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 7000     | 4.03  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 13002    | 4.83  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.520 | 112  | 26103    | 4.23  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 9170     | 3.98  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 45404    | 4.01  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.703 | 106  | 34794    | 8.06  | ug/l   | 94       |
| 69) o-Xylene                  | 12.032 | 106  | 16327    | 4.00  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 26981    | 3.86  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 5355     | 3.88  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 45334    | 4.03  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.148 | 43   | 10251    | 3.18  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 6902     | 3.53  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 6091m    | 3.92  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 11137    | 4.28  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 52204    | 3.94  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 29973    | 4.03  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 37693    | 3.95  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 2766     | 3.51  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 31852    | 4.04  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 33792    | 4.11  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 39439    | 4.12  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 45218    | 3.99  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 42259    | 4.02  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 20937    | 4.17  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 21517    | 4.29  | ug/l   | 91       |
| 89) n-Butylbenzene            | 13.696 | 91   | 39099    | 3.91  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 7423     | 3.93  | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 19070    | 4.28  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 1493     | 4.04  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 12534    | 4.15  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 6842     | 4.04  | ug/l   | 96       |
| 95) Naphthalene               | 15.239 | 128  | 24026    | 4.02  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 11238    | 4.43  | ug/l   | 98       |

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 LOD-MDL-SOIL-01-QT1-2021

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**APPROVED**

MMDadoda  
 3/17/2021 11:46:22 AM

Quant Time: Mar 17 01:56:12 2021  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

