

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112420\  
 Data File : VD067761.D  
 Acq On : 24 Nov 2020 11:36  
 Operator : VA/SY  
 Sample : VD1124SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1124SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 11/25/2020 2:01:53 PM

Quant Time: Nov 25 02:19:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 24 00:51:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 264596   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 381182   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 347104   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 174731   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 137456   | 53.43    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 106.86% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 128044   | 52.78    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 105.56% |
| 50) Toluene-d8            | 10.34  | 98    | 482151   | 54.36    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 108.72% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 167437   | 55.23    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 110.46% |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 46243  | 20.083  | ug/l   | 91     |
| 3) Chloromethane              | 2.21 | 50  | 27215  | 21.230  | ug/l   | 95     |
| 4) Vinyl Chloride             | 2.35 | 62  | 32543  | 20.259  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 29898  | 21.846  | ug/l   | 97     |
| 6) Chloroethane               | 2.92 | 64  | 22537  | 21.051  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 103065 | 21.026  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.71 | 74  | 18658  | 18.853  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 48255  | 20.558  | ug/l   | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 46205  | 19.232  | ug/l # | 96     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 21577m | 141.429 | ug/l   |        |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 44900  | 20.673  | ug/l   | 94     |
| 13) Acrolein                  | 3.91 | 56  | 9946   | 93.270  | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 43015  | 20.488  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.43 | 53  | 31306  | 90.823  | ug/l   | 89     |
| 16) Acetone                   | 4.16 | 43  | 30231  | 90.959  | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.41 | 76  | 130239 | 20.732  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.72 | 43  | 13245  | 19.808  | ug/l # | 67     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 91715  | 19.758  | ug/l   | 94     |
| 20) Methylene Chloride        | 4.96 | 84  | 51371  | 15.414  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 50294  | 20.368  | ug/l   | 91     |
| 22) Diisopropyl ether         | 6.36 | 45  | 87770  | 21.178  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.31 | 43  | 227721 | 97.408  | ug/l   | 94     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 73958  | 21.049  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 35809  | 96.014  | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 86206  | 20.797  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 55360  | 21.033  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.55 | 49  | 21781  | 19.352  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 20700  | 97.619  | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 93012  | 20.243  | ug/l   | 98     |
| 31) Cyclohexane               | 7.99 | 56  | 63938  | 20.540  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 101461 | 20.851  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 70438  | 21.534  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 16805  | 19.107  | ug/l # | 80     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 98446  | 20.763  | ug/l   | 99     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
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Manual Integrations  
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 11/25/2020 2:01:53 PM

Quant Time: Nov 25 02:19:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 24 00:51:35 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 81329    | 21.010  | ug/l   | 93       |
| 40) Benzene                    | 8.36  | 78   | 184296   | 20.515  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.54  | 41   | 10802m   | 24.051  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 61646    | 20.224  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 33895    | 19.297  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 61765    | 20.744  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 37981    | 20.604  | ug/l   | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 26197    | 20.875  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.67  | 83   | 74774    | 21.397  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.46  | 41   | 15915    | 18.124  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 5324     | 391.459 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 79857    | 96.620  | ug/l   | 100      |
| 52) Toluene                    | 10.41 | 92   | 134532   | 22.075  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 60234    | 19.728  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 69020    | 19.975  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 34645    | 20.575  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 33035    | 18.949  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 54472    | 20.517  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 71658    | 87.970  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 54079    | 92.674  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 51475    | 20.061  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 32766    | 19.749  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 58709    | 21.792  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 143814   | 21.081  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 57876    | 20.973  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 246873   | 20.962  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 201068   | 43.871  | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 87007    | 20.851  | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 151669   | 21.339  | ug/l   | 98       |
| 71) Bromoform                  | 12.36 | 173  | 30272    | 20.207  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 249027   | 21.661  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 29604    | 19.527  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 30073    | 19.491  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 23816m   | 19.557  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 60808    | 21.130  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 284018   | 22.205  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 161403   | 21.314  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 220557   | 22.057  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 9553     | 18.348  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 171644   | 21.272  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 179783   | 20.923  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 217681   | 21.792  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.40 | 105  | 246883   | 21.871  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 238899   | 21.850  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 116247   | 20.871  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 116770   | 21.164  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.85 | 91   | 195210   | 20.835  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 42248    | 20.299  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 100652   | 20.978  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 6508     | 19.565  | ug/l   | 99       |

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Sample : VD1124SBS01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1124SBS01

Manual Integrations  
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11/25/2020 2:01:53 PM

Quant Time: Nov 25 02:19:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 24 00:51:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 69546    | 20.471 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 45656    | 21.034 | ug/l  | 97       |
| 95) Naphthalene            | 15.40 | 128  | 104382   | 18.985 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 57978    | 20.035 | ug/l  | 98       |

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

