

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081720\  
 Data File : VD066253.D  
 Acq On : 17 Aug 2020 13:05  
 Operator : VA/SY  
 Sample : VD0817SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0817SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/18/2020 11:08:49 AM

Quant Time: Aug 17 14:11:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 290532   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 412049   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 380986   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 200397   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 132348   | 51.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.12% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 138037   | 52.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.76% |      |
| 50) Toluene-d8            | 10.34  | 98  | 505786   | 52.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.02% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 179417   | 51.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.34% |      |

## Target Compounds

|                               |      |     |        |        | Qvalue |     |
|-------------------------------|------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 53208  | 20.787 | ug/l   | 98  |
| 3) Chloromethane              | 2.21 | 50  | 38969  | 19.571 | ug/l   | 91  |
| 4) Vinyl Chloride             | 2.35 | 62  | 37800  | 21.443 | ug/l   | 100 |
| 5) Bromomethane               | 2.76 | 94  | 26646  | 22.783 | ug/l   | 89  |
| 6) Chloroethane               | 2.92 | 64  | 23812  | 22.005 | ug/l   | 98  |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 94833  | 20.635 | ug/l   | 98  |
| 8) Diethyl Ether              | 3.70 | 74  | 23827  | 18.374 | ug/l   | 98  |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 54873  | 20.119 | ug/l   | 99  |
| 10) Methyl Iodide             | 4.30 | 142 | 50701  | 24.389 | ug/l   | 99  |
| 11) Tert butyl alcohol        | 5.21 | 59  | 19573  | 74.453 | ug/l   | 100 |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 51348  | 19.957 | ug/l   | 95  |
| 13) Acrolein                  | 3.91 | 56  | 12005  | 58.187 | ug/l   | 95  |
| 14) Allyl chloride            | 4.71 | 41  | 71859  | 18.435 | ug/l   | 95  |
| 15) Acrylonitrile             | 5.43 | 53  | 49847  | 91.219 | ug/l   | 99  |
| 16) Acetone                   | 4.16 | 43  | 48055  | 97.710 | ug/l   | 94  |
| 17) Carbon Disulfide          | 4.40 | 76  | 148195 | 18.115 | ug/l   | 99  |
| 18) Methyl Acetate            | 4.72 | 43  | 22836  | 18.280 | ug/l   | 94  |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 109668 | 18.596 | ug/l   | 93  |
| 20) Methylene Chloride        | 4.96 | 84  | 64870  | 20.186 | ug/l   | 95  |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 55969  | 18.936 | ug/l   | 94  |
| 22) Diisopropyl ether         | 6.36 | 45  | 142663 | 18.508 | ug/l   | 92  |
| 23) Vinyl Acetate             | 6.30 | 43  | 407028 | 90.133 | ug/l   | 99  |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 91544  | 19.190 | ug/l   | 96  |
| 25) 2-Butanone                | 7.21 | 43  | 62929  | 86.995 | ug/l   | 99  |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 89057  | 20.829 | ug/l   | 98  |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 61410  | 19.808 | ug/l   | 99  |
| 28) Bromochloromethane        | 7.54 | 49  | 35597  | 21.246 | ug/l   | 99  |
| 29) Tetrahydrofuran           | 7.56 | 42  | 38841  | 86.666 | ug/l   | 97  |
| 30) Chloroform                | 7.71 | 83  | 99739  | 19.912 | ug/l   | 96  |
| 31) Cyclohexane               | 7.98 | 56  | 84103  | 18.521 | ug/l   | 97  |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 96212  | 20.485 | ug/l   | 97  |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 79440  | 20.517 | ug/l   | 98  |
| 37) Ethyl Acetate             | 7.29 | 43  | 29047  | 18.934 | ug/l   | 98  |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 89997  | 20.843 | ug/l   | 96  |

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 8/18/2020 11:08:49 AM

Quant Time: Aug 17 14:11:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 91668    | 19.584  | ug/l   | 96       |
| 40) Benzene                    | 8.35  | 78   | 208808   | 19.440  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.51  | 41   | 16106    | 17.855  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 64975    | 20.591  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.44  | 43   | 54881    | 18.156  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 66071    | 20.413  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 51798    | 19.717  | ug/l   | 99       |
| 46) Dibromomethane             | 9.47  | 93   | 28294    | 19.553  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.66  | 83   | 76441    | 19.987  | ug/l # | 89       |
| 48) Methyl methacrylate        | 9.46  | 41   | 26289    | 17.033  | ug/l   | 88       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 6974     | 375.133 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 141608   | 91.204  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 142574   | 20.172  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 73097    | 20.140  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 83768    | 19.699  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 41265    | 19.804  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 47365    | 18.923  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 65364    | 18.896  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 110480   | 98.124  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 99403    | 91.223  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 56815    | 19.750  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 39824    | 19.874  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 58307    | 19.930  | ug/l   | 93       |
| 65) Chlorobenzene              | 11.67 | 112  | 155978   | 20.167  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 61238    | 20.236  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.74 | 91   | 278360   | 20.769  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 212924   | 41.004  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 95010    | 20.114  | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 171092   | 20.667  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 33240    | 18.540  | ug/l # | 93       |
| 73) Isopropylbenzene           | 12.48 | 105  | 270569   | 20.226  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 51549    | 17.500  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 41385    | 18.143  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 33782m   | 20.215  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 67861    | 19.707  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.82 | 91   | 313902   | 20.187  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 180556   | 20.302  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 231149   | 20.662  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 14493    | 19.171  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 189089   | 20.141  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 198709   | 20.197  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 232408   | 20.758  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 271998   | 20.477  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 257673   | 20.683  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 131608   | 20.335  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 129240   | 20.024  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 223886   | 20.057  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.11 | 117  | 49712    | 20.007  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 113860   | 19.893  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 6842     | 17.453  | ug/l   | 94       |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0817SBSD01

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Quant Time: Aug 17 14:11:42 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:49:25 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 82124    | 19.470 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 49247    | 19.827 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 128141   | 18.645 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 70000    | 18.800 | ug/l  | 98       |

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

