

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082820\  
 Data File : VD066464.D  
 Acq On : 28 Aug 2020 17:12  
 Operator : VA/SY  
 Sample : L3827-09MSD  
 Misc : 6.70G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 789UMR-TP11-0006-01MSD

Manual Integrations  
 APPROVED

MMDadoda  
 8/31/2020 11:58:37 AM

Quant Time: Aug 29 02:31:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 157523   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 214376   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 198933   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 107241   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 85504    | 55.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.74% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 67983    | 50.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.42% |      |
| 50) Toluene-d8            | 10.34  | 98  | 248803   | 50.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.46% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 90781    | 52.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.32% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 60224  | 44.971  | ug/l   | 98     |
| 3) Chloromethane              | 2.20 | 50  | 38192  | 40.234  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.34 | 62  | 45314  | 44.461  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 39258  | 51.497  | ug/l   | 96     |
| 6) Chloroethane               | 2.91 | 64  | 30841  | 47.257  | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 150617 | 54.346  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.70 | 74  | 29050  | 46.782  | ug/l   | 85     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 65651  | 48.000  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 70725  | 45.338  | ug/l   | 94     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 27827  | 328.040 | ug/l # | 83     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 60160  | 46.859  | ug/l   | 87     |
| 13) Acrolein                  | 3.92 | 56  | 10057  | 146.649 | ug/l   | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 70731  | 41.275  | ug/l # | 80     |
| 15) Acrylonitrile             | 5.42 | 53  | 55775  | 223.867 | ug/l   | 97     |
| 16) Acetone                   | 4.15 | 43  | 62955  | 226.114 | ug/l   | 92     |
| 17) Carbon Disulfide          | 4.40 | 76  | 161045 | 41.390  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 22522  | 43.100  | ug/l # | 89     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 160335 | 51.865  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.97 | 84  | 68758  | 45.665  | ug/l # | 85     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 68796  | 46.033  | ug/l   | 91     |
| 22) Diisopropyl ether         | 6.36 | 45  | 137705 | 41.505  | ug/l   | 88     |
| 23) Vinyl Acetate             | 6.30 | 43  | 462484 | 225.170 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 107356 | 45.788  | ug/l   | 97     |
| 25) 2-Butanone                | 7.21 | 43  | 69390  | 219.535 | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 132754 | 52.828  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 78966  | 49.312  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 35323  | 43.737  | ug/l   | 85     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 37086  | 206.575 | ug/l   | 89     |
| 30) Chloroform                | 7.70 | 83  | 138779 | 51.159  | ug/l   | 97     |
| 31) Cyclohexane               | 7.98 | 56  | 83631  | 39.001  | ug/l   | 84     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 151824 | 54.685  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.10 | 75  | 95076  | 48.606  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.29 | 43  | 28986  | 43.570  | ug/l # | 89     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 152868 | 59.985  | ug/l   | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 110947   | 48.150  | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 249974   | 48.579  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.52  | 41   | 17293m   | 42.151  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 105090   | 57.986  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 63045    | 47.214  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 84786    | 50.708  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 50120    | 42.964  | ug/l   | 96       |
| 46) Dibromomethane             | 9.47  | 93   | 37357    | 51.433  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.66  | 83   | 110994   | 55.568  | ug/l   | 95       |
| 48) Methyl methacrylate        | 9.45  | 41   | 30831    | 44.775  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 7857     | 931.606 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 152515   | 236.102 | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 177570   | 50.935  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 99420    | 52.455  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 106235   | 49.936  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 47887    | 48.701  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 56364    | 49.517  | ug/l # | 85       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 80607    | 49.560  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 117304   | 248.129 | ug/l   | 91       |
| 59) 2-Hexanone                 | 10.98 | 43   | 111145   | 243.929 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 79367    | 53.549  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 48282    | 49.896  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.87 | 164  | 76679    | 50.811  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.67 | 112  | 204982   | 51.792  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 87985    | 54.398  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 362111   | 51.977  | ug/l   | 94       |
| 68) m/p-Xylenes                | 11.85 | 106  | 280445   | 105.613 | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 130365   | 52.773  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 227807   | 53.708  | ug/l   | 98       |
| 71) Bromoform                  | 12.36 | 173  | 48340    | 52.679  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 372401   | 51.837  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 59050    | 45.510  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 45337    | 44.177  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 40606m   | 53.822  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 93997    | 51.551  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.82 | 91   | 407743   | 49.500  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 232853   | 49.495  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 325800   | 52.525  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 15762    | 44.347  | ug/l # | 77       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 253961   | 50.951  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 283210   | 52.567  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 325429   | 53.416  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 363906   | 51.553  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 365880   | 53.755  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 175399   | 51.532  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 174431   | 51.040  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 304921   | 50.766  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.11 | 117  | 65822    | 48.954  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 153783   | 52.484  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 11055    | 51.361  | ug/l   | 93       |

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QLast Update : Fri Aug 21 13:36:12 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 123219   | 53.867 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 79445    | 55.887 | ug/l  | 98       |
| 95) Naphthalene            | 15.40 | 128  | 193579   | 53.879 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 105231   | 53.701 | ug/l  | 97       |

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

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