

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072920\  
 Data File : VD066085.D  
 Acq On : 29 Jul 2020 11:30  
 Operator : VA/SY  
 Sample : VD0729SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0729SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/30/2020 6:19:40 PM

Quant Time: Jul 30 01:47:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 228994   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 320693   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 301393   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 169884   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 106130   | 56.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.92% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 108603   | 55.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.66% |      |
| 50) Toluene-d8            | 10.34  | 98  | 406861   | 56.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.30% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 143438   | 57.09 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.18% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 39718  | 22.855  | ug/l   | 95     |
| 3) Chloromethane              | 2.21 | 50  | 29048  | 20.482  | ug/l   | 95     |
| 4) Vinyl Chloride             | 2.35 | 62  | 29367  | 21.745  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 22075  | 20.258  | ug/l   | 98     |
| 6) Chloroethane               | 2.92 | 64  | 18281  | 22.675  | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 76136  | 23.177  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.70 | 74  | 18344  | 20.203  | ug/l   | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 42223  | 21.287  | ug/l   | 95     |
| 10) Methyl Iodide             | 4.30 | 142 | 41609  | 25.919  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 16930  | 131.571 | ug/l # | 96     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 39455  | 20.839  | ug/l   | 95     |
| 13) Acrolein                  | 3.91 | 56  | 11006  | 70.108  | ug/l   | 97     |
| 14) Allyl chloride            | 4.71 | 41  | 56168  | 18.978  | ug/l   | 89     |
| 15) Acrylonitrile             | 5.43 | 53  | 36494  | 94.077  | ug/l   | 97     |
| 16) Acetone                   | 4.16 | 43  | 36305  | 96.259  | ug/l # | 84     |
| 17) Carbon Disulfide          | 4.41 | 76  | 118790 | 19.342  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.72 | 43  | 16130  | 18.384  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 81767  | 21.019  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.97 | 84  | 49347  | 22.002  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 44725  | 20.901  | ug/l   | 95     |
| 22) Diisopropyl ether         | 6.36 | 45  | 111453 | 19.822  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.30 | 43  | 302850 | 95.504  | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 73130  | 21.465  | ug/l   | 95     |
| 25) 2-Butanone                | 7.21 | 43  | 44383  | 88.685  | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 70761  | 23.097  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 47884  | 21.135  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.54 | 49  | 28689  | 19.840  | ug/l   | 87     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 27326  | 88.495  | ug/l   | 95     |
| 30) Chloroform                | 7.71 | 83  | 80476  | 22.582  | ug/l   | 98     |
| 31) Cyclohexane               | 7.98 | 56  | 65362  | 19.501  | ug/l   | 86     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 75349  | 22.858  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 60001  | 21.922  | ug/l   | 97     |
| 37) Ethyl Acetate             | 7.29 | 43  | 19230  | 18.398  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 74428  | 25.062  | ug/l   | 97     |

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 ALS Vial : 5 Sample Multiplier: 1

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Quant Time: Jul 30 01:47:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 73346    | 22.129  | ug/l   | 95       |
| 40) Benzene                    | 8.35  | 78   | 165171   | 21.571  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 10909    | 18.219  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 48829    | 23.272  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 40299    | 19.740  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 53067    | 22.902  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 38893    | 20.972  | ug/l   | 98       |
| 46) Dibromomethane             | 9.48  | 93   | 21732    | 21.768  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.66  | 83   | 60856    | 23.054  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.46  | 41   | 20078    | 19.497  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 4872     | 421.230 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 99014    | 96.258  | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 112190   | 22.467  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 55527    | 22.579  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 65210    | 21.875  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 31196    | 22.033  | ug/l   | 90       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 35738    | 21.710  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 51032    | 21.772  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 92426    | 117.533 | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.99 | 43   | 71201    | 99.885  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 44122    | 23.112  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 31064    | 22.755  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 47626    | 23.281  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 127621   | 23.127  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 48247    | 23.678  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.75 | 91   | 218679   | 23.027  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 172150   | 47.163  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 80196    | 24.156  | ug/l   | 96       |
| 70) Styrene                    | 12.20 | 104  | 136828   | 23.988  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 27120    | 22.722  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 221058   | 21.504  | ug/l   | 97       |
| 74) N-amyl acetate             | 12.29 | 43   | 38105    | 17.878  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 32617    | 19.199  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 25112m   | 19.632  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 54756    | 20.843  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.83 | 91   | 257930   | 21.623  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 141501   | 20.764  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 188584   | 22.329  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 10142    | 18.194  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 155499   | 21.618  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 162133   | 21.938  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 187978   | 22.560  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 220907   | 21.701  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 212235   | 22.949  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 109215   | 22.391  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 105229   | 21.341  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 185107   | 21.526  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.12 | 117  | 40272    | 21.036  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 92530    | 21.892  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 5846     | 20.997  | ug/l   | 91       |

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Sample : VD0729SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0729SBSD01

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7/30/2020 6:19:40 PM

Quant Time: Jul 30 01:47:38 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 12:34:13 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 68268    | 22.502 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 42845    | 22.843 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 100768   | 20.900 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 56355    | 21.368 | ug/l  | 97       |

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

