

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012720\  
 Data File : VD064960.D  
 Acq On : 27 Jan 2020 13:33  
 Operator : VA/SY  
 Sample : VD0127SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0127SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/28/2020 3:40:06 PM

Quant Time: Jan 27 14:08:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 468324   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 692500   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 607298   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 293527   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 235197   | 52.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.72% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 224657   | 51.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.24% |      |
| 50) Toluene-d8            | 10.34  | 98  | 892245   | 53.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.24% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 273407   | 53.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.38% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 72821  | 20.640  | ug/l | 97     |
| 3) Chloromethane              | 2.21 | 50  | 111550 | 21.573  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 126631 | 21.322  | ug/l | 96     |
| 5) Bromomethane               | 2.76 | 94  | 82617  | 20.680  | ug/l | 97     |
| 6) Chloroethane               | 2.92 | 64  | 82029  | 20.950  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 192047 | 20.938  | ug/l | 98     |
| 8) Diethyl Ether              | 3.70 | 74  | 43207  | 20.867  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 95860  | 22.464  | ug/l | 97     |
| 10) Methyl Iodide             | 4.30 | 142 | 89074  | 19.665  | ug/l | 97     |
| 11) Tert butyl alcohol        | 5.26 | 59  | 24273  | 97.779  | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 88037  | 21.595  | ug/l | 99     |
| 13) Acrolein                  | 3.92 | 56  | 27541  | 88.499  | ug/l | 97     |
| 14) Allyl chloride            | 4.71 | 41  | 141680 | 21.791  | ug/l | 98     |
| 15) Acrylonitrile             | 5.43 | 53  | 93936  | 104.762 | ug/l | 100    |
| 16) Acetone                   | 4.17 | 43  | 97759  | 91.162  | ug/l | 95     |
| 17) Carbon Disulfide          | 4.40 | 76  | 288747 | 21.521  | ug/l | 99     |
| 18) Methyl Acetate            | 4.73 | 43  | 46631  | 22.164  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 187770 | 20.614  | ug/l | 97     |
| 20) Methylene Chloride        | 4.97 | 84  | 109983 | 21.534  | ug/l | 92     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 102448 | 21.812  | ug/l | 94     |
| 22) Diisopropyl ether         | 6.37 | 45  | 277665 | 21.428  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.31 | 43  | 773841 | 102.001 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 171408 | 21.545  | ug/l | 97     |
| 25) 2-Butanone                | 7.22 | 43  | 121219 | 99.880  | ug/l | 94     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 153586 | 21.283  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 106679 | 21.280  | ug/l | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 56139  | 17.644  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 74701  | 99.758  | ug/l | 99     |
| 30) Chloroform                | 7.71 | 83  | 174795 | 21.254  | ug/l | 94     |
| 31) Cyclohexane               | 7.98 | 56  | 164639 | 21.036  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 162949 | 21.298  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 139217 | 20.848  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 54722  | 19.839  | ug/l | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 148353 | 21.019  | ug/l | 94     |

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 ALS Vial : 6 Sample Multiplier: 1

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 1/28/2020 3:40:06 PM

Quant Time: Jan 27 14:08:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 164959   | 21.130  | ug/l   | 95       |
| 40) Benzene                    | 8.35  | 78   | 382871   | 20.818  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 30066    | 20.235  | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 113345   | 20.689  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 105970   | 20.226  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 108491   | 21.078  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 94971    | 21.301  | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 49924    | 20.510  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.67  | 83   | 135199   | 21.346  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.46  | 41   | 51541    | 21.377  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 11216    | 397.300 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 263079   | 100.350 | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 250202   | 21.101  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 124633   | 20.657  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 148098   | 20.966  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 67679    | 20.642  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 79572    | 20.295  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 117932   | 20.971  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 131652   | 101.069 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 176337   | 97.515  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.15 | 129  | 88442    | 20.182  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 64936    | 20.568  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 92594    | 21.099  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.68 | 112  | 261525   | 21.210  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 95672    | 20.631  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 457695   | 20.908  | ug/l   | 95       |
| 68) m/p-Xylenes                | 11.86 | 106  | 355807   | 42.215  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 155862   | 20.836  | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 279962   | 21.010  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 52707    | 20.447  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 445414   | 22.202  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 89573    | 19.953  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 71694    | 21.262  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 48342m   | 19.842  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 105251   | 21.442  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 527510   | 22.110  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 281736   | 21.525  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 355602   | 21.629  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 23984    | 21.020  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 299528   | 21.579  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 300839   | 21.562  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 363461   | 21.823  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 425460   | 21.537  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 404270   | 21.869  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 202123   | 21.460  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 197375   | 21.114  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.86 | 91   | 368721   | 21.856  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.12 | 117  | 76291    | 21.401  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 170397   | 21.311  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 11370    | 21.071  | ug/l   | 98       |

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Sample : VD0127SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0127SBSD01

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1/28/2020 3:40:06 PM

Quant Time: Jan 27 14:08:22 2020  
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Quant Title : SW846 8260  
QLast Update : Thu Jan 23 13:45:59 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 123061   | 22.247 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 76744    | 21.934 | ug/l  | 97       |
| 95) Naphthalene            | 15.41 | 128  | 189217   | 21.195 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 103150   | 21.506 | ug/l  | 97       |

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

