

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\  
 Data File : VD066993.D  
 Acq On : 01 Oct 2020 15:30  
 Operator : VA/SY  
 Sample : VD1001SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1001SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/2/2020 3:13:30 PM

Quant Time: Oct 02 00:56:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 485719   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 748592   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 700799   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 337655   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 236380   | 50.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.06% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 247509   | 50.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.00% |      |
| 50) Toluene-d8            | 10.34  | 98  | 931171   | 52.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.28% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 322351   | 53.17 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.34% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 92710  | 20.816  | ug/l   | 94     |
| 3) Chloromethane              | 2.21 | 50  | 81204  | 20.993  | ug/l   | 95     |
| 4) Vinyl Chloride             | 2.35 | 62  | 79676  | 20.542  | ug/l   | 94     |
| 5) Bromomethane               | 2.76 | 94  | 53699  | 18.774  | ug/l   | 96     |
| 6) Chloroethane               | 2.92 | 64  | 48071  | 20.351  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 167494 | 19.437  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.70 | 74  | 43184  | 20.209  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 97883  | 20.097  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 83925  | 17.733  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 39669  | 119.272 | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 89040  | 19.446  | ug/l   | 96     |
| 13) Acrolein                  | 3.93 | 56  | 31614  | 100.917 | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 122966 | 20.673  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.43 | 53  | 78838  | 100.242 | ug/l   | 97     |
| 16) Acetone                   | 4.16 | 43  | 74172  | 103.858 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.41 | 76  | 284980 | 20.281  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.71 | 43  | 36126  | 20.127  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 167440 | 20.032  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.96 | 84  | 136918 | 23.103  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 103757 | 19.912  | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.36 | 45  | 233359 | 21.489  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.30 | 43  | 634559 | 103.121 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 167264 | 19.958  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 99923  | 98.687  | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 155954 | 19.223  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 110192 | 19.800  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.54 | 49  | 62304  | 19.251  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 60271  | 103.525 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 184205 | 20.262  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 140352 | 19.976  | ug/l # | 91     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 168424 | 19.990  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 144394 | 20.694  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 49319  | 20.403  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 152558 | 20.207  | ug/l   | 99     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
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Manual Integrations  
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MMDadoda  
 10/2/2020 3:13:30 PM

Quant Time: Oct 02 00:56:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 147461   | 19.989  | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 402935   | 20.790  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.51  | 41   | 20458m   | 15.666  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 110881   | 20.474  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 94372    | 21.192  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 116554   | 20.139  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 98301    | 21.587  | ug/l   | 95       |
| 46) Dibromomethane             | 9.47  | 93   | 54185    | 20.703  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.66  | 83   | 137870   | 20.265  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 41701    | 18.279  | ug/l # | 76       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 11499    | 420.959 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 234186   | 105.580 | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 266918   | 21.380  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 125702   | 20.673  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 151308   | 20.378  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 74773    | 20.549  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 79031    | 21.036  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 125040   | 21.190  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 222365   | 106.343 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 155118   | 104.778 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 100576   | 20.738  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 73036    | 20.892  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 101852   | 19.991  | ug/l   | 91       |
| 65) Chlorobenzene              | 11.67 | 112  | 281065   | 20.165  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 105851   | 19.965  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 487610   | 20.418  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.86 | 106  | 384500   | 41.313  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 170337   | 20.467  | ug/l   | 96       |
| 70) Styrene                    | 12.20 | 104  | 299969   | 20.989  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 55604    | 20.204  | ug/l   | 97       |
| 73) Isopropylbenzene           | 12.48 | 105  | 463205   | 20.203  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 82589    | 20.038  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 77530    | 20.070  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 50102m   | 17.035  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 112736   | 20.364  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.82 | 91   | 557522   | 20.576  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 316410   | 20.410  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 399867   | 20.643  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 24933    | 21.135  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 339106   | 20.559  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 336412   | 20.623  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 402190   | 20.805  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 468688   | 20.403  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 439224   | 20.624  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 225786   | 20.938  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 216109   | 20.043  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 391247   | 20.101  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.12 | 117  | 74002    | 19.837  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 190608   | 20.240  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 12619    | 20.265  | ug/l   | 94       |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Manual Integrations  
APPROVED

MMDadoda  
10/2/2020 3:13:30 PM

Quant Time: Oct 02 00:56:52 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 121731   | 19.984 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 72022    | 19.252 | ug/l  | 97       |
| 95) Naphthalene            | 15.41 | 128  | 197722   | 19.460 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 106872   | 20.210 | ug/l  | 99       |

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

