

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD093020\  
 Data File : VD066969.D  
 Acq On : 30 Sep 2020 13:08  
 Operator : VA/SY  
 Sample : VD0930SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0930SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2020 2:41:48 PM

Quant Time: Oct 01 01:09:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 410258   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 641159   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 589032   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 288321   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 179800   | 44.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.56%  |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 193388   | 47.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.82%  |      |
| 50) Toluene-d8            | 10.34  | 98  | 684865   | 49.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.56%  |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 242027   | 50.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.74% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 73191  | 22.370  | ug/l   | 90     |
| 3) Chloromethane              | 2.21 | 50  | 69478  | 18.432  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 70011  | 18.800  | ug/l   | 96     |
| 5) Bromomethane               | 2.76 | 94  | 50515  | 19.299  | ug/l   | 100    |
| 6) Chloroethane               | 2.93 | 64  | 42712  | 18.470  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 155758 | 20.366  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.71 | 74  | 39915  | 20.558  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 92955  | 20.961  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 76199  | 19.471  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 32564  | 106.868 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 81103  | 20.188  | ug/l   | 96     |
| 13) Acrolein                  | 3.92 | 56  | 22996  | 77.632  | ug/l   | 96     |
| 14) Allyl chloride            | 4.72 | 41  | 109784 | 18.610  | ug/l   | 95     |
| 15) Acrylonitrile             | 5.43 | 53  | 83834  | 97.431  | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 67770  | 79.560  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.41 | 76  | 237573 | 19.343  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.73 | 43  | 37219  | 17.202  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 176526 | 20.234  | ug/l   | 94     |
| 20) Methylene Chloride        | 4.97 | 84  | 111288 | 20.809  | ug/l   | 86     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 94570  | 20.330  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.36 | 45  | 240280 | 19.810  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.31 | 43  | 588078 | 91.020  | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 158840 | 19.575  | ug/l # | 96     |
| 25) 2-Butanone                | 7.21 | 43  | 96988  | 94.747  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 146749 | 19.732  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 103780 | 20.534  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 61193  | 18.255  | ug/l   | 90     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 60709  | 92.558  | ug/l   | 93     |
| 30) Chloroform                | 7.71 | 83  | 175933 | 20.114  | ug/l   | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 140016 | 19.177  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 158467 | 20.028  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 126779 | 19.931  | ug/l   | 97     |
| 37) Ethyl Acetate             | 7.29 | 43  | 46547  | 20.242  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 142018 | 20.422  | ug/l   | 96     |

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 Operator : VA/SY  
 Sample : VD0930SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD0930SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2020 2:41:48 PM

Quant Time: Oct 01 01:09:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 149981   | 20.536  | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 362750   | 20.463  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 22646m   | 16.014  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 104915   | 20.019  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 85928    | 19.382  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 108880   | 21.548  | ug/l   | 91       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 91382    | 20.488  | ug/l   | 99       |
| 46) Dibromomethane             | 9.47  | 93   | 49908    | 20.594  | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.66  | 83   | 133038   | 20.436  | ug/l # | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 45289    | 20.720  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 12557    | 394.037 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 221451   | 98.582  | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 240807   | 21.089  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 115741   | 20.889  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 140576   | 20.807  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 71912    | 21.586  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 74419    | 20.852  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 116034   | 21.093  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 206274   | 122.066 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 146463   | 96.682  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 92849    | 21.355  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 68510    | 22.110  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 93010    | 21.952  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 261137   | 21.298  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 97603    | 21.033  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 451050   | 20.946  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 354518   | 43.482  | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 155823   | 21.136  | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 274088   | 21.408  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 53517    | 22.777  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 430282   | 20.659  | ug/l   | 97       |
| 74) N-amyl acetate             | 12.29 | 43   | 77412    | 19.032  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 72843    | 20.268  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 46457m   | 19.443  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 104560   | 21.465  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.82 | 91   | 516488   | 20.612  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 291445   | 20.411  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 362961   | 20.538  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 22570    | 23.633  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 315963   | 20.991  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 304196   | 20.947  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 370012   | 21.114  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 444942   | 21.306  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 407926   | 21.671  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 204889   | 21.290  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 199847   | 20.908  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 367352   | 20.532  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 76356    | 19.980  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 174418   | 21.183  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 11773    | 20.363  | ug/l   | 91       |

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Data File : VD066969.D  
Acq On : 30 Sep 2020 13:08  
Operator : VA/SY  
Sample : VD0930SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0930SBSD01

Manual Integrations  
APPROVED

MMDadoda  
10/1/2020 2:41:48 PM

Quant Time: Oct 01 01:09:33 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 110391   | 21.298 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 68243    | 21.971 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 184609   | 20.979 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 95265    | 21.295 | ug/l  | 99       |

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

