

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082120\  
 Data File : VD066356.D  
 Acq On : 21 Aug 2020 12:47  
 Operator : VA/SY  
 Sample : VSTDIC100  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

Manual Integrations  
 APPROVED

MMDadoda  
 8/24/2020 4:36:48 PM

Quant Time: Aug 21 13:08:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:03:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 242298   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 350587   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 319099   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 163621   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 243686   | 105.26 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 210.52% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 217902   | 99.12  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 198.24% |      |
| 50) Toluene-d8            | 10.34  | 98  | 808860   | 101.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 202.98% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 281458   | 97.19  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 194.38% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 184861  | 85.491  | ug/l   | 100    |
| 3) Chloromethane              | 2.21 | 50  | 136133  | 89.961  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 149285  | 93.053  | ug/l   | 99     |
| 5) Bromomethane               | 2.76 | 94  | 110297  | 91.491  | ug/l   | 98     |
| 6) Chloroethane               | 2.91 | 64  | 96062   | 92.892  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 401263  | 91.840  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.71 | 74  | 95478   | 103.605 | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 199987  | 91.144  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 263082  | 114.478 | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.22 | 59  | 61803   | 281.586 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 191392  | 94.350  | ug/l   | 97     |
| 13) Acrolein                  | 3.92 | 56  | 50258   | 456.612 | ug/l   | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 267617  | 102.012 | ug/l   | 100    |
| 15) Acrylonitrile             | 5.42 | 53  | 195208  | 508.424 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 218974  | 505.789 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.41 | 76  | 583374  | 96.247  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.71 | 43  | 81921   | 101.091 | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 481426  | 102.608 | ug/l   | 97     |
| 20) Methylene Chloride        | 4.96 | 84  | 212514  | 64.637  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 221459  | 96.631  | ug/l   | 89     |
| 22) Diisopropyl ether         | 6.36 | 45  | 508053  | 99.220  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.30 | 43  | 1604958 | 508.076 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 350922  | 96.867  | ug/l   | 97     |
| 25) 2-Butanone                | 7.21 | 43  | 243900  | 488.365 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 367867  | 92.646  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 239675  | 97.782  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 128586  | 103.836 | ug/l # | 99     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 138098  | 497.606 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 409117  | 96.938  | ug/l   | 95     |
| 31) Cyclohexane               | 7.98 | 56  | 291829  | 83.712  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 419399  | 99.014  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 304227  | 91.547  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 106228  | 92.698  | ug/l # | 91     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 398806  | 91.980  | ug/l   | 97     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
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MMDadoda  
 8/24/2020 4:36:48 PM

Quant Time: Aug 21 13:08:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:03:22 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 362963   | 93.849   | ug/l   | 99       |
| 40) Benzene                    | 8.35  | 78   | 807085   | 92.695   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.52  | 41   | 61780m   | 94.756   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 285918   | 95.346   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 219883   | 101.223  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 258952   | 90.968   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 186793   | 96.354   | ug/l   | 98       |
| 46) Dibromomethane             | 9.47  | 93   | 115512   | 95.549   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.66  | 83   | 319446   | 95.562   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 110983   | 96.631   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 26356    | 1872.534 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 528891   | 489.207  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 554180   | 94.617   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 311588   | 100.130  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 348345   | 98.727   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 154239   | 94.745   | ug/l   | 92       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 191737   | 102.090  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 260625   | 96.909   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 378546   | 472.332  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 379680   | 494.726  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 231845   | 93.348   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 154282   | 95.360   | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.87 | 164  | 225411   | 91.139   | ug/l   | 92       |
| 65) Chlorobenzene              | 11.67 | 112  | 611825   | 95.000   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 245108   | 92.689   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1084989  | 94.650   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 817776   | 186.788  | ug/l   | 96       |
| 69) o-Xylene                   | 12.18 | 106  | 380468   | 94.749   | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 653704   | 94.255   | ug/l   | 98       |
| 71) Bromoform                  | 12.36 | 173  | 138793   | 93.180   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1077141  | 97.834   | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 203625   | 103.102  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 152482   | 95.729   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 109370m  | 97.314   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 271262   | 94.888   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.82 | 91   | 1202547  | 93.602   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 697569   | 96.188   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 922714   | 95.946   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 54561    | 98.448   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 734705   | 95.163   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 816342   | 99.817   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 901629   | 95.908   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.40 | 105  | 1043171  | 94.460   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1015392  | 96.247   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 486063   | 91.861   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 492500   | 91.584   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 893649   | 97.312   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 193895   | 92.201   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 439252   | 95.445   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 31794    | 93.532   | ug/l   | 93       |

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Sample : VSTDICC100  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC100

Manual Integrations  
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MMDadoda  
8/24/2020 4:36:48 PM

Quant Time: Aug 21 13:08:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 13:03:22 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 345309   | 98.483  | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 210585   | 94.990  | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 568516   | 106.313 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 296597   | 99.500  | ug/l  | 98       |

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

