

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062320\  
 Data File : VW015653.D  
 Acq On : 23 Jun 2020 11:16  
 Operator : SY/VA  
 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

MMDadoda  
 6/24/2020 10:58:10 AM

Quant Time: Jun 23 12:51:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 23 12:41:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 197411   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 311458   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 279239   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 141152   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 23474    | 11.29 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 22.58% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 20800    | 11.27 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 22.54% |      |
| 50) Toluene-d8              | 10.32  | 98  | 80737    | 10.78 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 21.56% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 29514    | 10.87 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 21.74% |      |

| Target Compounds              |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 12312  | 10.986 | ug/l   | 87     |
| 3) Chloromethane              | 2.21 | 50  | 15414  | 11.304 | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.36 | 62  | 25077  | 11.714 | ug/l   | 96     |
| 5) Bromomethane               | 2.79 | 94  | 18619  | 12.365 | ug/l   | 99     |
| 6) Chloroethane               | 2.93 | 64  | 16434  | 11.856 | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 17412  | 10.829 | ug/l   | 99     |
| 8) Diethyl Ether              | 3.69 | 74  | 10423  | 11.009 | ug/l   | 85     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 21939  | 11.364 | ug/l   | 98     |
| 10) Methyl Iodide             | 4.27 | 142 | 29005  | 10.272 | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 7552   | 48.021 | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 21135  | 11.038 | ug/l   | 97     |
| 13) Acrolein                  | 3.90 | 56  | 7860   | 60.843 | ug/l   | 98     |
| 14) Allyl chloride            | 4.67 | 41  | 32371  | 10.075 | ug/l   | 99     |
| 15) Acrylonitrile             | 5.38 | 53  | 20799  | 54.106 | ug/l   | 99     |
| 16) Acetone                   | 4.15 | 43  | 20994  | 49.926 | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.38 | 76  | 56941  | 9.973  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.68 | 43  | 9944   | 10.903 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.44 | 73  | 30942  | 10.691 | ug/l   | 98     |
| 20) Methylene Chloride        | 4.92 | 84  | 27279  | 12.526 | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 23583  | 10.948 | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.32 | 45  | 65518  | 10.746 | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 183856 | 51.412 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 41611  | 10.824 | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 28894  | 53.409 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 29475  | 10.927 | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 24726  | 10.556 | ug/l   | 95     |
| 28) Bromochloromethane        | 7.52 | 49  | 15860  | 11.005 | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 16740  | 51.858 | ug/l   | 99     |
| 30) Chloroform                | 7.68 | 83  | 42864  | 11.045 | ug/l   | 97     |
| 31) Cyclohexane               | 7.96 | 56  | 41338  | 10.899 | ug/l # | 92     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 36723  | 10.914 | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 34902  | 10.945 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 12500  | 10.402 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 32951  | 10.609 | ug/l   | 93     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 23 12:41:55 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 40758    | 10.371  | ug/l   | 97       |
| 40) Benzene                    | 8.33  | 78   | 94624    | 11.035  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 7300     | 10.729  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 29040    | 11.155  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 25702    | 10.780  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 25154    | 10.953  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 22687    | 10.896  | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 11898    | 11.266  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.65  | 83   | 29860    | 10.428  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 11278    | 10.320  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 3240     | 232.947 | ug/l # | 73       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 61770    | 54.499  | ug/l   | 98       |
| 52) Toluene                    | 10.39 | 92   | 59795    | 10.800  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 27764    | 9.916   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 34289    | 10.311  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 16371    | 11.108  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 18292    | 9.617   | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 29159    | 11.166  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 48705    | 53.554  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 40842    | 52.419  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 17902    | 9.984   | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 15230    | 10.812  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 21153    | 11.110  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.66 | 112  | 63026    | 10.992  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 21918    | 10.720  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 116572   | 10.796  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 88053    | 21.841  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 39465    | 10.545  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 66690    | 10.433  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 9318     | 9.647   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.47 | 105  | 111684   | 10.323  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.27 | 43   | 22891    | 10.079  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 18442    | 11.224  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 13682m   | 11.514  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 25090    | 10.745  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 134628   | 10.387  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 77150    | 10.544  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 96413    | 10.548  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 4694     | 8.743   | ug/l   | 89       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 81927    | 10.802  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 84546    | 10.887  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 96981    | 10.638  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 118010   | 10.698  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 107311   | 10.664  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 51300    | 11.051  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 51956    | 11.328  | ug/l   | 96       |
| 89) n-Butylbenzene             | 13.82 | 91   | 100488   | 10.366  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.10 | 117  | 18338    | 9.945   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 44476    | 11.031  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 2873     | 10.251  | ug/l   | 92       |

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Sample : VSTDICC010  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 23 12:41:55 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 27658    | 9.958  | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 18800    | 10.992 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 44266    | 9.578  | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 24764    | 10.655 | ug/l  | 97       |

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

