

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101020\  
 Data File : VW016859.D  
 Acq On : 09 Oct 2020 14:13  
 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

apatel  
 10/12/2020 1:58:43 PM

Quant Time: Oct 10 05:05:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101020S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 10 04:56:35 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene         | 7.95  | 168  | 397807   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.85  | 114  | 573033   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.63 | 117  | 506532   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.56 | 152  | 263198   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds   |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.31  | 65   | 32867    | 10.16  | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 20.32% |          |
| 35) Dibromofluoromethane      | 7.89  | 113  | 35553    | 10.12  | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 20.24% |          |
| 50) Toluene-d8                | 10.33 | 98   | 130574   | 9.92   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 19.84% |          |
| 62) 4-Bromofluorobenzene      | 12.62 | 95   | 44101    | 9.71   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 19.42% |          |
| Target Compounds              |       |      |          |        |        |          |
|                               |       |      |          |        | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.01  | 85   | 25059    | 11.549 | ug/l   | 97       |
| 3) Chloromethane              | 2.21  | 50   | 25888    | 10.882 | ug/l   | 97       |
| 4) Vinyl Chloride             | 2.37  | 62   | 37160    | 10.801 | ug/l   | 97       |
| 5) Bromomethane               | 2.79  | 94   | 28294    | 10.709 | ug/l   | 99       |
| 6) Chloroethane               | 2.93  | 64   | 21853    | 9.981  | ug/l   | 99       |
| 7) Trichlorofluoromethane     | 3.27  | 101  | 25663    | 10.246 | ug/l   | 90       |
| 8) Diethyl Ether              | 3.69  | 74   | 15968    | 10.207 | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07  | 101  | 34662    | 10.278 | ug/l   | 99       |
| 10) Methyl Iodide             | 4.28  | 142  | 55991    | 10.384 | ug/l   | 99       |
| 11) Tert butyl alcohol        | 5.23  | 59   | 8026m    | 46.980 | ug/l   |          |
| 12) 1,1-Dichloroethene        | 4.04  | 96   | 34013    | 10.217 | ug/l   | 94       |
| 13) Acrolein                  | 3.90  | 56   | 11049    | 51.682 | ug/l   | 96       |
| 14) Allyl chloride            | 4.67  | 41   | 39855    | 10.002 | ug/l   | 99       |
| 15) Acrylonitrile             | 5.38  | 53   | 26490    | 50.869 | ug/l   | 100      |
| 16) Acetone                   | 4.14  | 43   | 26886    | 51.302 | ug/l   | 94       |
| 17) Carbon Disulfide          | 4.39  | 76   | 90717    | 10.242 | ug/l   | 97       |
| 18) Methyl Acetate            | 4.68  | 43   | 12437    | 10.347 | ug/l   | 94       |
| 19) Methyl tert-butyl Ether   | 5.43  | 73   | 37259    | 10.384 | ug/l   | 96       |
| 20) Methylene Chloride        | 4.93  | 84   | 46764    | 11.261 | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene  | 5.43  | 96   | 38416    | 10.279 | ug/l   | 92       |
| 22) Diisopropyl ether         | 6.31  | 45   | 75453    | 10.418 | ug/l   | 95       |
| 23) Vinyl Acetate             | 6.26  | 43   | 231373   | 49.857 | ug/l   | 99       |
| 24) 1,1-Dichloroethane        | 6.22  | 63   | 59159    | 10.301 | ug/l   | 96       |
| 25) 2-Butanone                | 7.18  | 43   | 35921    | 51.414 | ug/l   | 98       |
| 26) 2,2-Dichloropropane       | 7.17  | 77   | 37179    | 10.582 | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene    | 7.18  | 96   | 41056    | 10.257 | ug/l   | 99       |
| 28) Bromochloromethane        | 7.52  | 49   | 21670    | 9.428  | ug/l   | 100      |
| 29) Tetrahydrofuran           | 7.54  | 42   | 20119    | 51.410 | ug/l   | 99       |
| 30) Chloroform                | 7.68  | 83   | 64107    | 10.268 | ug/l   | 100      |
| 31) Cyclohexane               | 7.96  | 56   | 52503    | 10.718 | ug/l # | 87       |
| 32) 1,1,1-Trichloroethane     | 7.88  | 97   | 54414    | 10.333 | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 8.09  | 75   | 51731    | 10.440 | ug/l   | 98       |
| 37) Ethyl Acetate             | 7.26  | 43   | 17829    | 11.016 | ug/l   | 100      |
| 38) Carbon Tetrachloride      | 8.07  | 117  | 53487    | 10.384 | ug/l   | 95       |

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 VSTDIC010

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101020S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 10 04:56:35 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 57054    | 10.100  | ug/l   | 96       |
| 40) Benzene                    | 8.33  | 78   | 144280   | 10.453  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 9292     | 13.380  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 38696    | 10.249  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 30932    | 9.976   | ug/l   | 98       |
| 44) Trichloroethene            | 9.10  | 130  | 44072    | 10.316  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 32569    | 10.347  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 18574    | 10.317  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 44756    | 9.998   | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.44  | 41   | 14339    | 10.036  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.49  | 88   | 4129     | 199.382 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 81761    | 52.125  | ug/l   | 97       |
| 52) Toluene                    | 10.39 | 92   | 92387    | 10.125  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 39268    | 9.636   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 48567    | 9.757   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 26410    | 10.306  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 26783    | 9.607   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 43751    | 10.319  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 77417    | 50.113  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 51748    | 49.862  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 30938    | 9.843   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 25975    | 10.235  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 39138    | 10.845  | ug/l   | 93       |
| 65) Chlorobenzene              | 11.66 | 112  | 102910   | 10.358  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 35476    | 10.097  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 178065   | 10.285  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 136959   | 20.340  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 62886    | 10.177  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 102167   | 9.935   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 17214    | 9.759   | ug/l # | 94       |
| 73) Isopropylbenzene           | 12.47 | 105  | 174083   | 9.951   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 27580    | 9.815   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 28474    | 10.374  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 20566m   | 12.112  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 43887    | 10.149  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 203912   | 10.107  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 116622   | 10.133  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 147104   | 10.034  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 6601     | 9.035   | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 122645   | 10.323  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 125222   | 9.834   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 146359   | 10.019  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 178910   | 10.094  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 166466   | 10.086  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 84754    | 10.135  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 83831    | 10.173  | ug/l   | 96       |
| 89) n-Butylbenzene             | 13.82 | 91   | 146778   | 9.872   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 24405    | 9.583   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 74268    | 10.293  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 4249     | 10.108  | ug/l   | 96       |

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Sample : VSTDICC010  
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Quant Title : SW846 8260  
QLast Update : Sat Oct 10 04:56:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 48215    | 9.685 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 31815    | 9.858 | ug/l  | 100      |
| 95) Naphthalene            | 15.36 | 128  | 73673    | 9.106 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 42637    | 9.845 | ug/l  | 96       |

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

