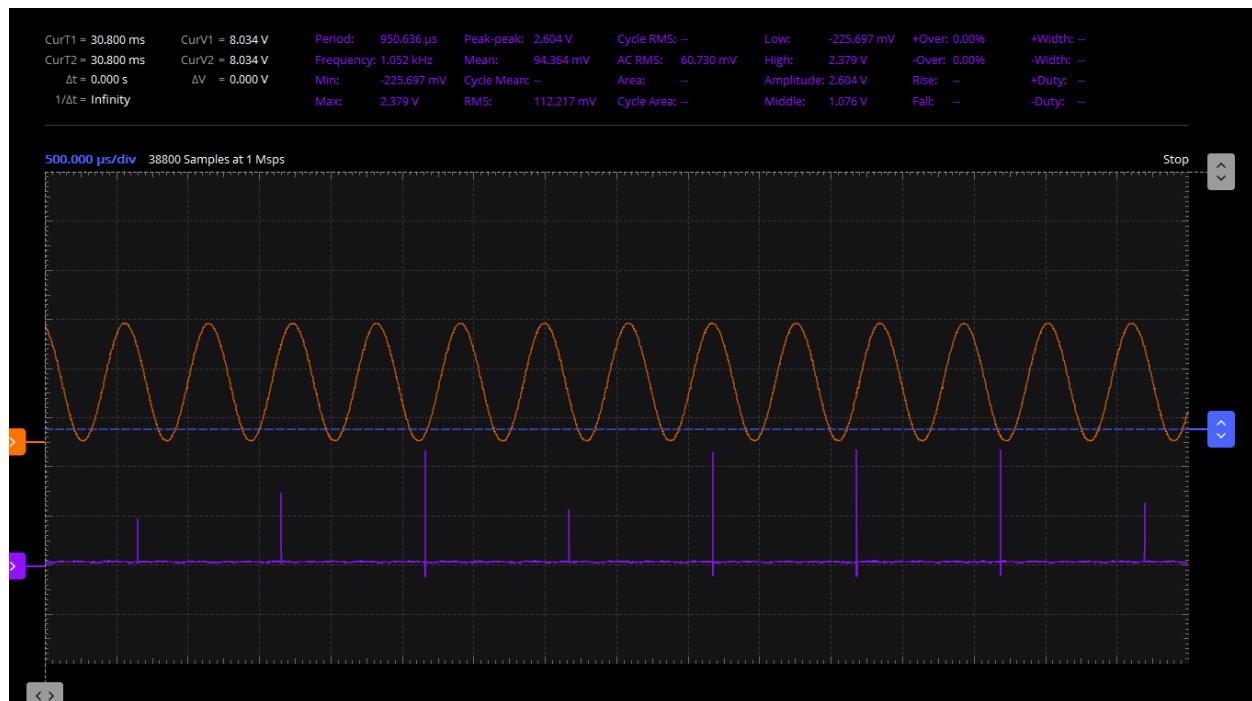
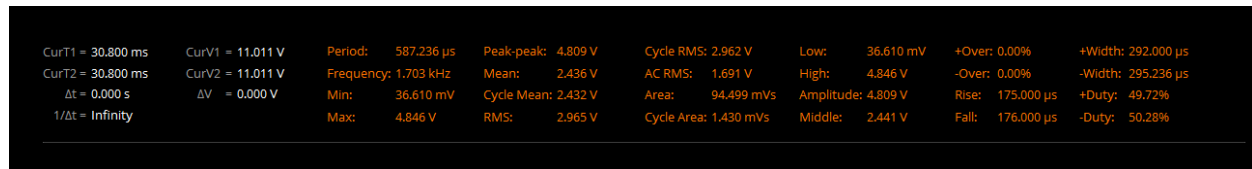


PIC Activity 7

System Tick and the 1 kHz sinusoid



Design Plan

```
void UserAppRun(void)
```

```
{
```

- initialize variables to be the Note index (index for Notes array) and the Duration index (index for Duration array)

- create the Notes array and the Duration array

- if the value of Duration array @ Note index is smaller than or equal to the Duration index...

 - set Duration index = 0

 - while Duration index is smaller than RT...

 - call InterruptTimerXus

```
        -increment Duration index by 1
    -increment Note index by 1
    -if Note index is equal to 14...
        -set Note index equal to 0
    -if value of Duration array @ Note index is bigger than Duration index...
        -call InterruptTimerXus
        -increment Duration index by 1
}
```