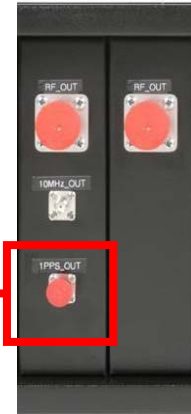




ONE PULSE PER SECOND

NO 1-PPS until Scenario starts

NOTE: Synch'ed to GPS not UTC



1-PPS SETUP

ONE PULSE PER SECOND SETUP

Characteristics

☒ **SCENARIO BASED** ☐ **ALWAYS OUTPUT**

Polarity **Pulse Width** **Delay**

☒ **+ [RISING]** ☐ **- [FALLING]** 500 milliseconds 87 0-256

5 VDC 50 OHMS

CANCEL **APPLY**

Free running 1-PPS continually output from simulation power-on. When the simulation STARTS the 1-PPS aligns with the GPS Time rollovers from the simulator.

NOTE: Synch'ed to GPS not UTC

Polarity: Rising or falling polarity edge triggering

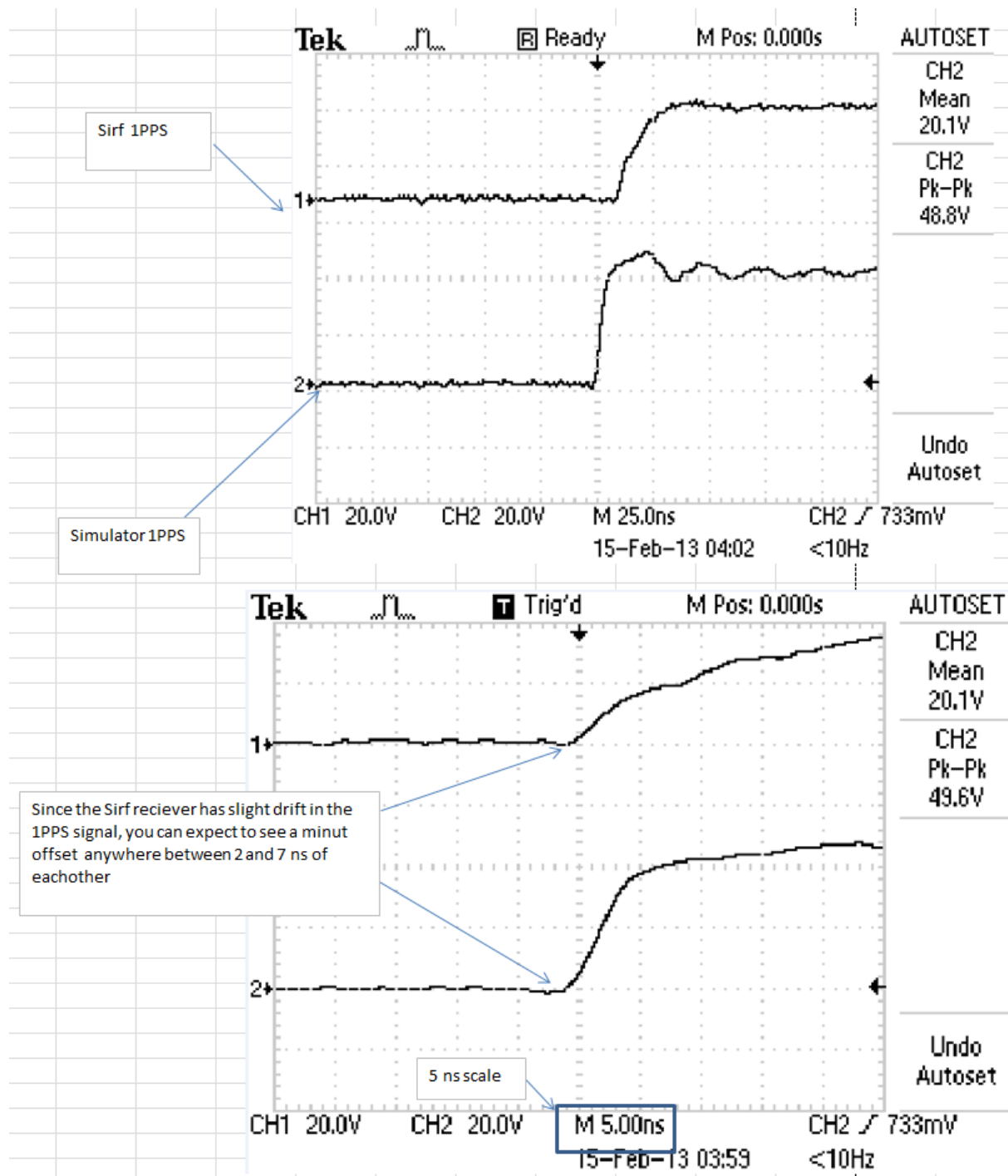
Pulse Width:
Sets the width

Configuring the 1PPS

The Navigation Laboratories simulator outputs an active high 1PPS output signal.

The Simulator's 1PPS is controlled via the Voyager.ini configuration file. This file is normally located in the Windows directory, the configuration parameters are as follows:

```
[PPS]
PPSAlwaysOn=0
PPSWidth=500
PPSDelay=87
PPSPolarity=1
```



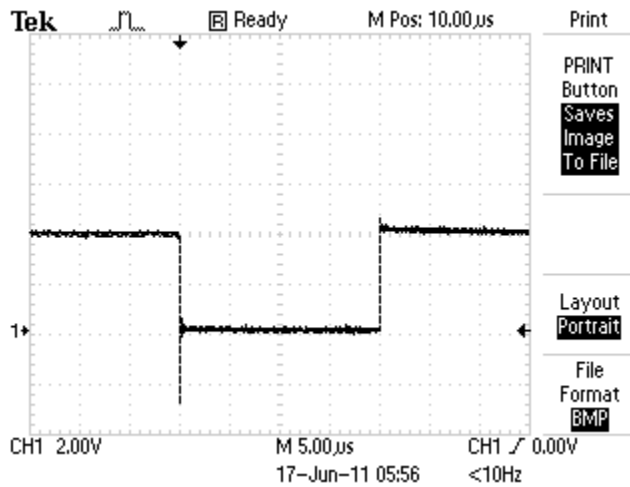
Calibrating 1PPS for SIM and Sirf

SET:
PPSWidth=500
PPSDelay=87

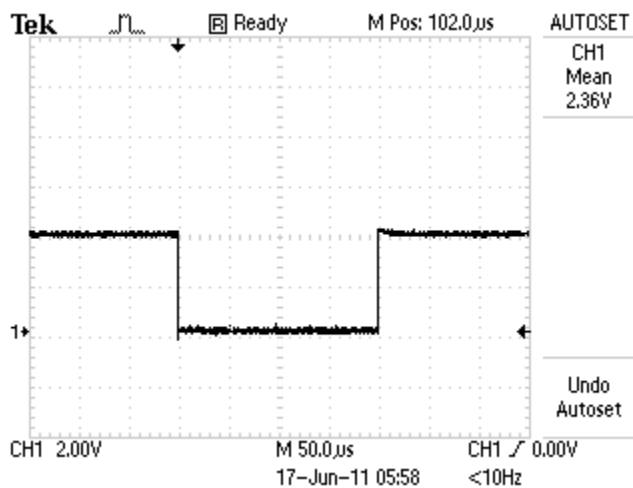
This Brings the two 1PPS signals from the Simulator and the reference receiver to within 7 ns of eachother



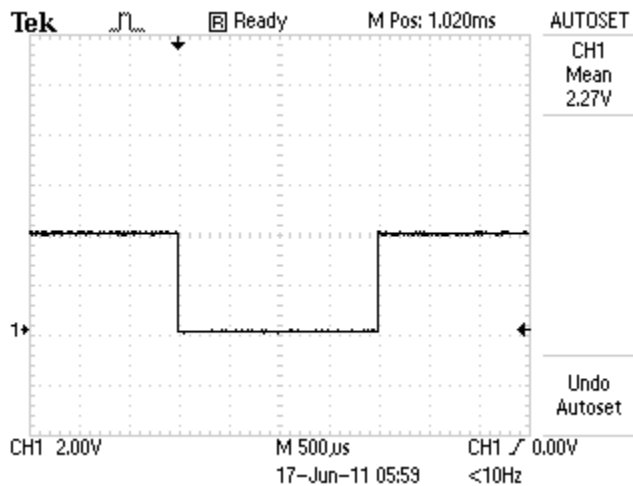
TEST DATA



WIDTH=1



WIDTH=10



WIDTH=100

DATE: 06/21/2011

HEX FILES:

X1: Digisim115\LabPro1000XHexFiles\sim1_1000_Ver1.hex

X2: Digisim115\LabPro1000XHexFiles\sim2_1000_Ver1.hex

X3: Digisim115\LabPro1000XHexFiles\RF_inter_1000_Ver1.hex