

How to test the waveform capture rate

In the normal model

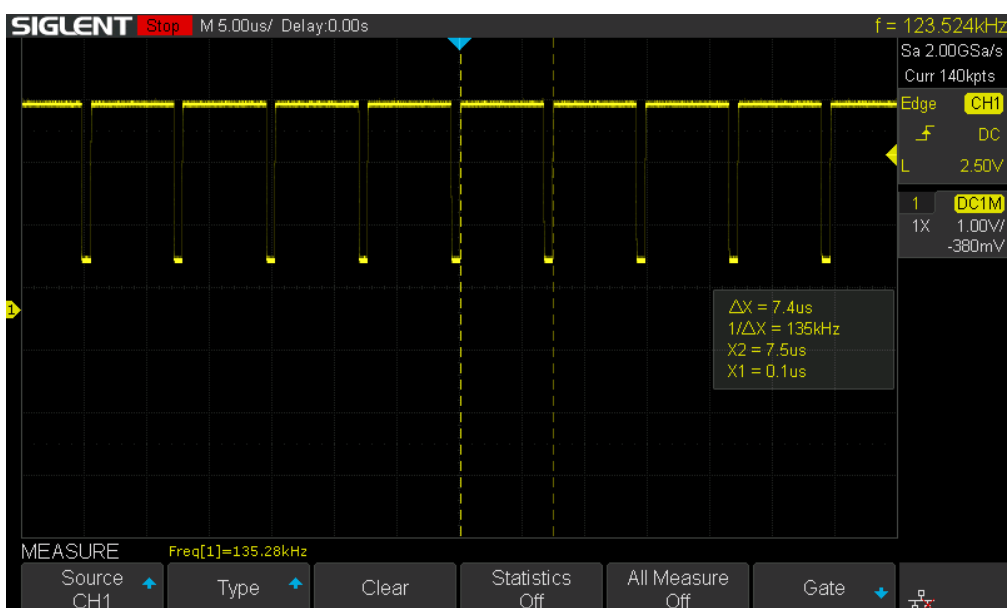
The waveform capture rates up to 120,000 wfm/s in normal mode of SDS2000X Plus, need to meet below conditions:

1. Do not active any measurement, math or other data processing routine enabled.
2. Time base set to 50ns/div
3. Set to dot display mode
4. Input 10MHz sinewave to scope
5. Use a BNC cable connect the trigger out interface to another scope then select, then select a frequency parament to measure it frequency.

When the scope trigger one time, the waveform will update one time, the trigger out interface will output a TTL signal at the same time. If the waveform capture rates up to 120,000 wfm/s, the frequency will be or greater than or equal to 120KHz. See below picture



SDS2000X Plus setup



Measure waveform capture rate

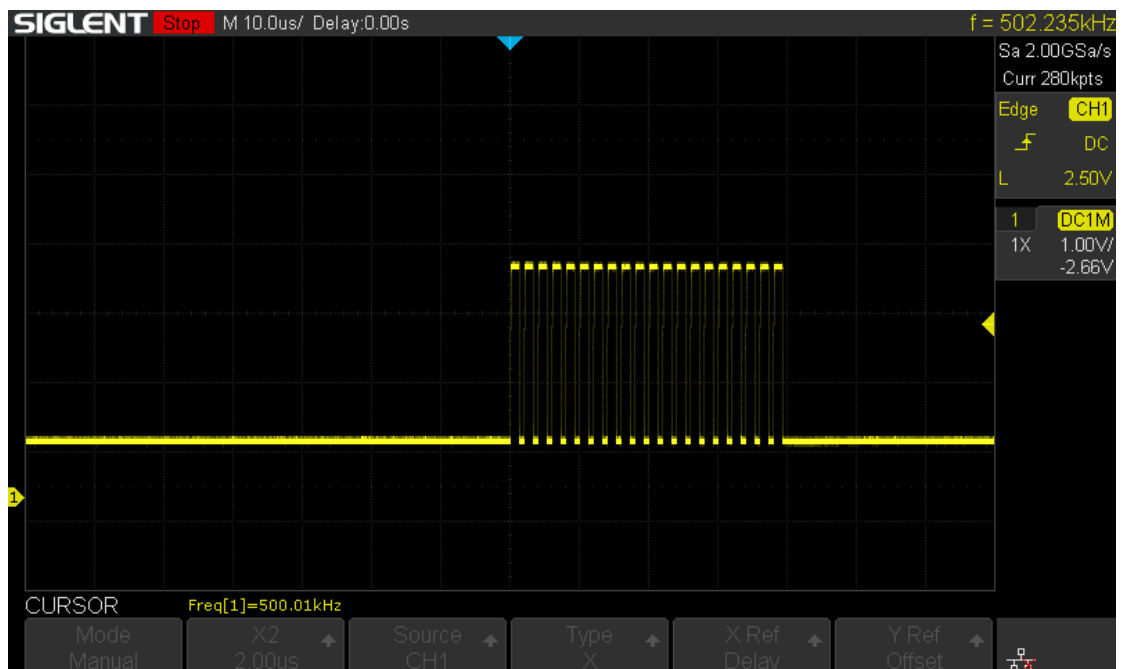
In sequence mode

The waveform capture rates up to 500,000 wfm/s in sequence mode of SDS2000X Plus, need to meet below conditions:

1. Get into the Sequence mode and set the segment more than 2
2. Other conditions same as normal mode



Sequence setup



Measure waveform capture rate