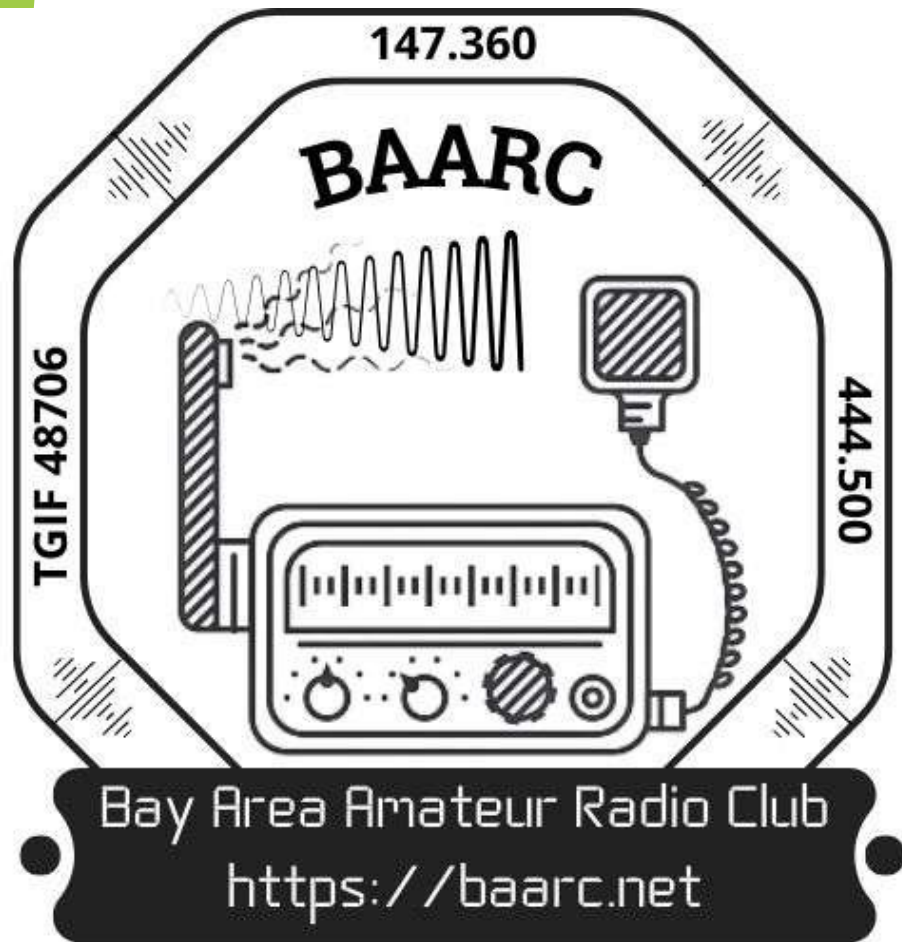
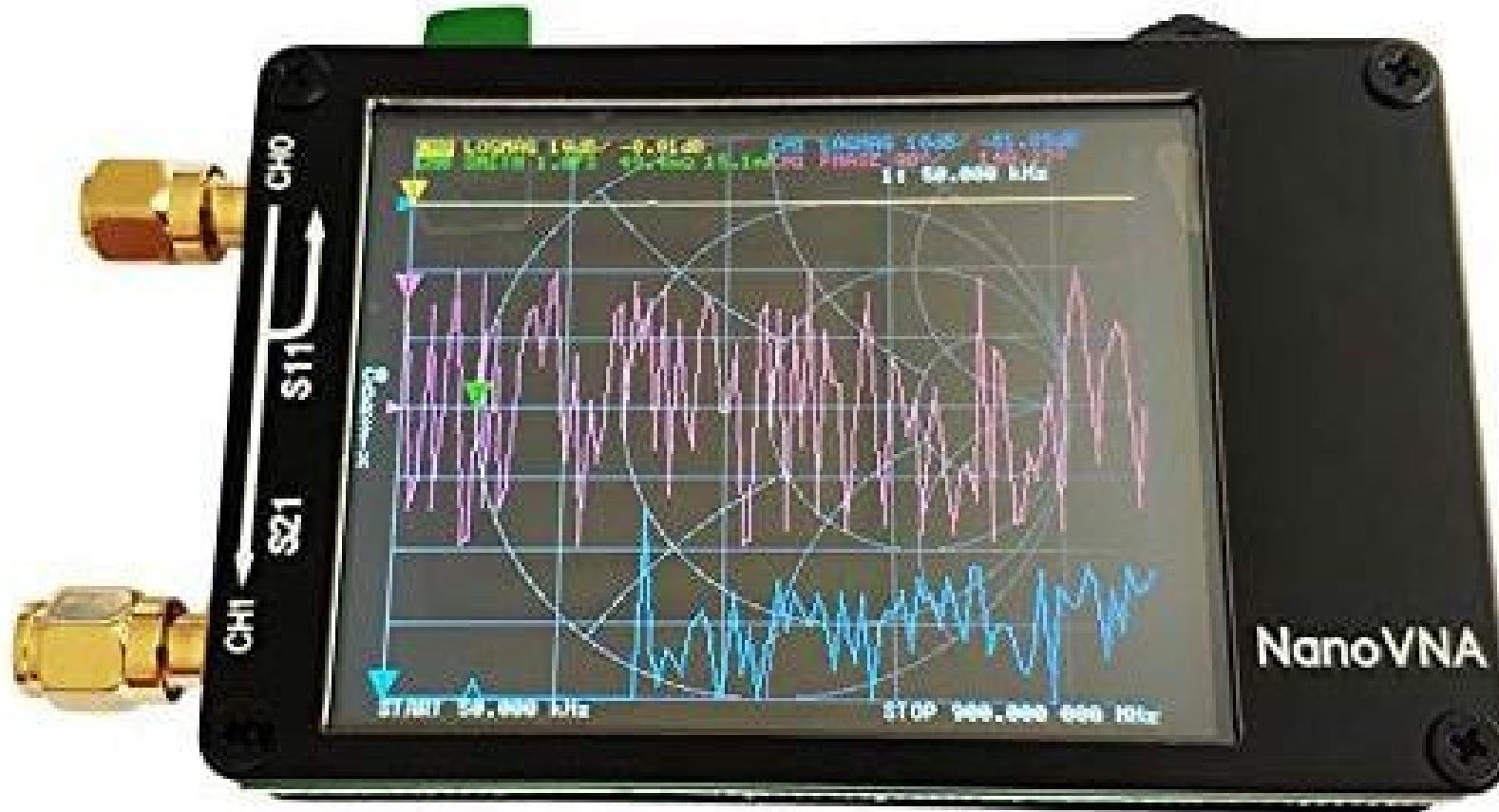


A Very Brief Introduction into the NanoVNA



Steve Czarnecki
KE8TSJ

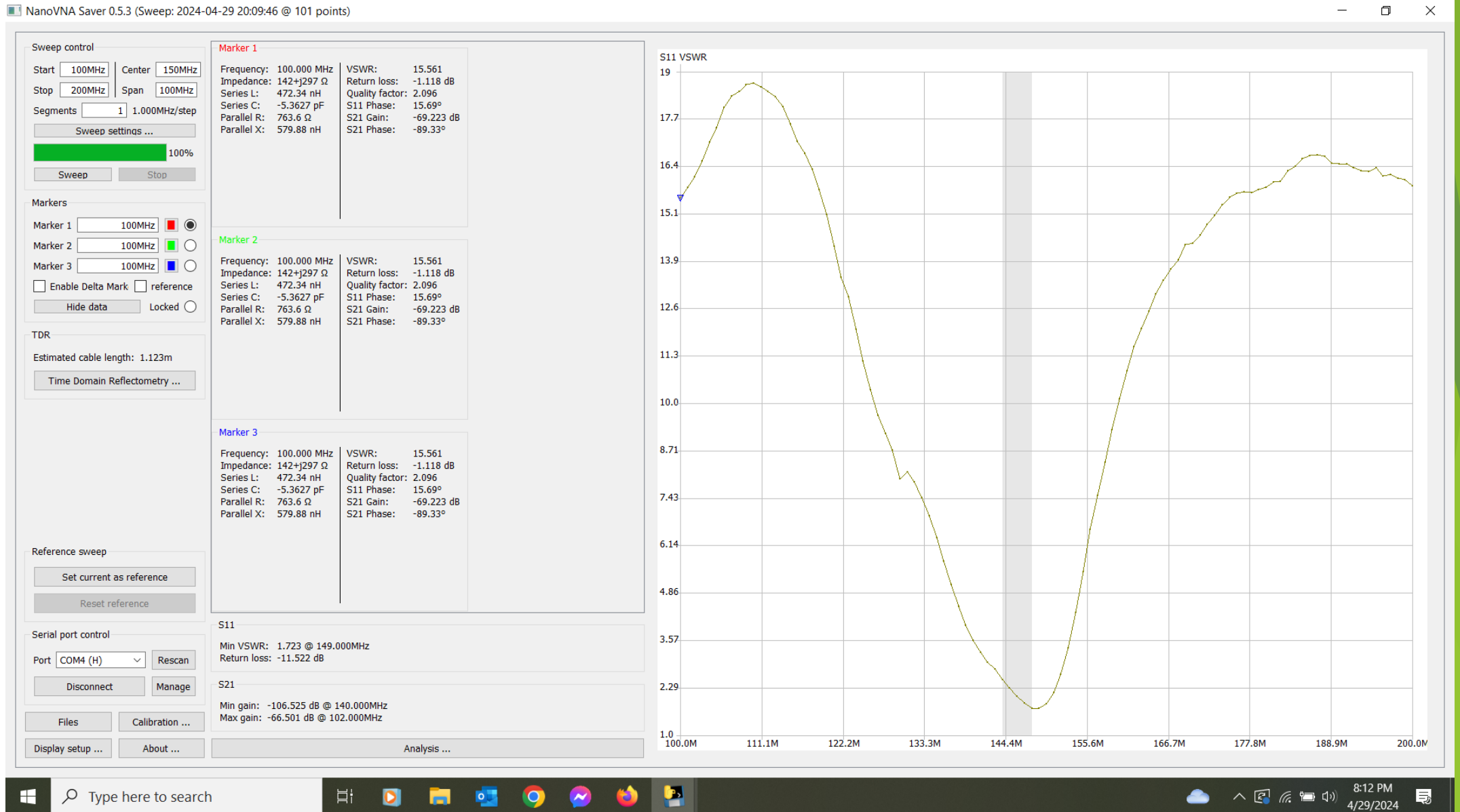
NanoVNA - What is it?



NanoVNA - How is it used?

- Two SMA connections allow coax to be connected
- Tests a very wide variety of parameters
- Produces a variety of graphs to show data
- Has a frequency range of 50KHz to 900 MHz
- Can use it as-is, or connect to a computer via USB cable
- **MUST BE CALIBRATED BEFORE USE**

NanoVNA Saver Software

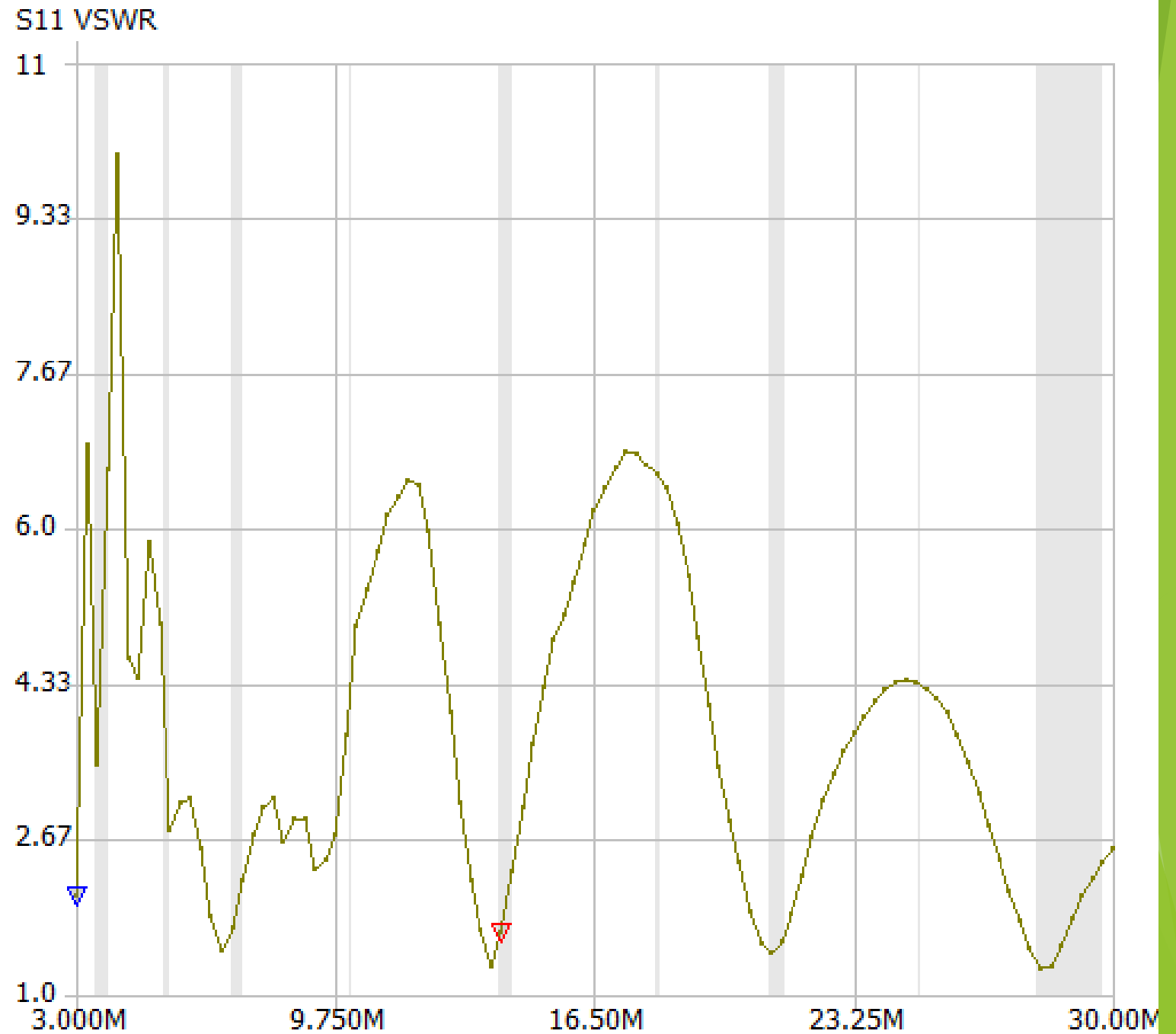


So ----- What can it do?

- ▶ Measure the SWR of you antenna system
- ▶ Measure the impedance of a homemade common mode choke
- ▶ Measure loss in your coax cable and test for damage
- ▶ Determine the length of a piece of coax
- ▶ And much more

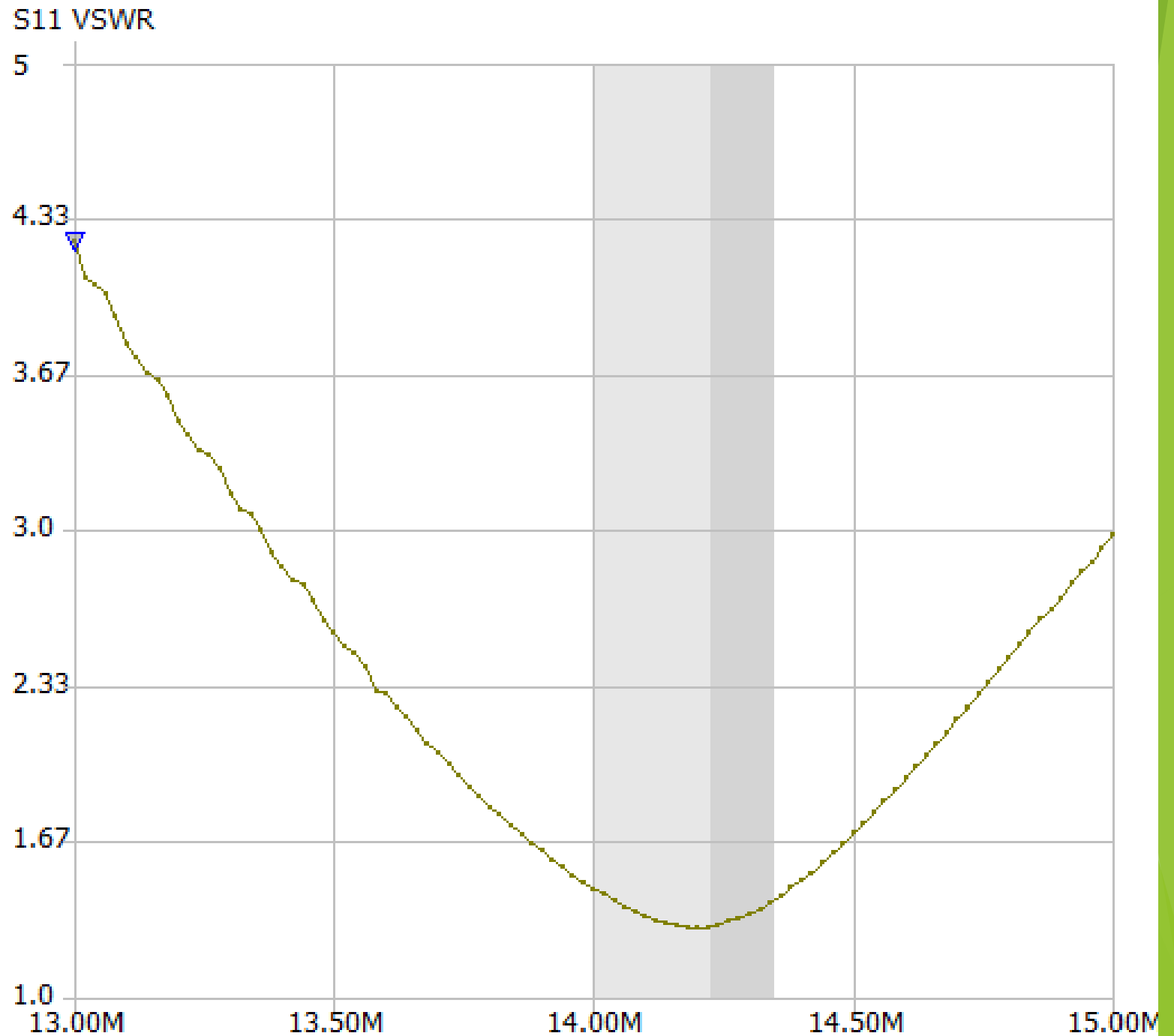
Measuring the SWR

80 to 10 Meter EFHW
(before tuning)

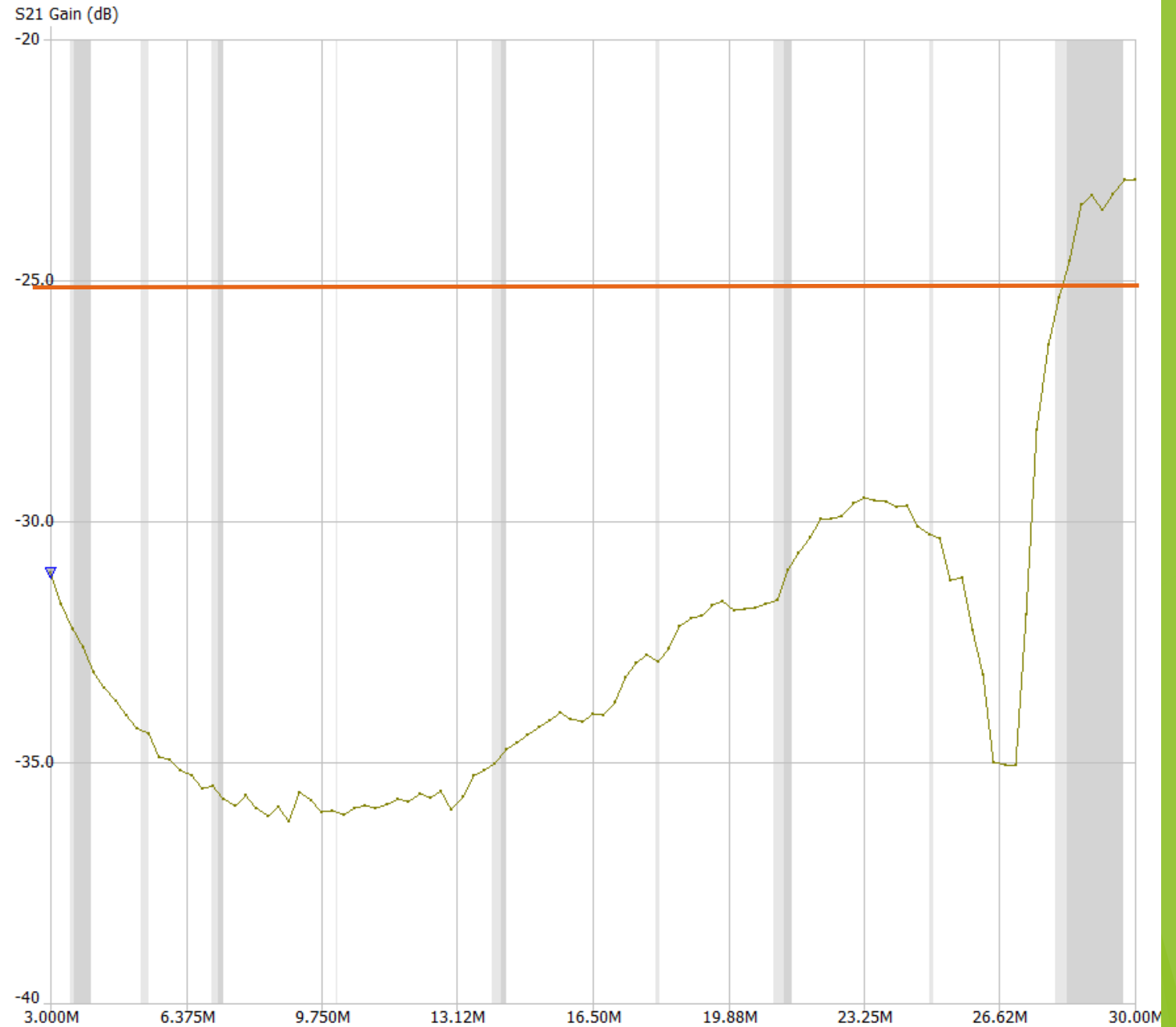


Measuring the SWR

Close up of 20 Meter
(after tuning)

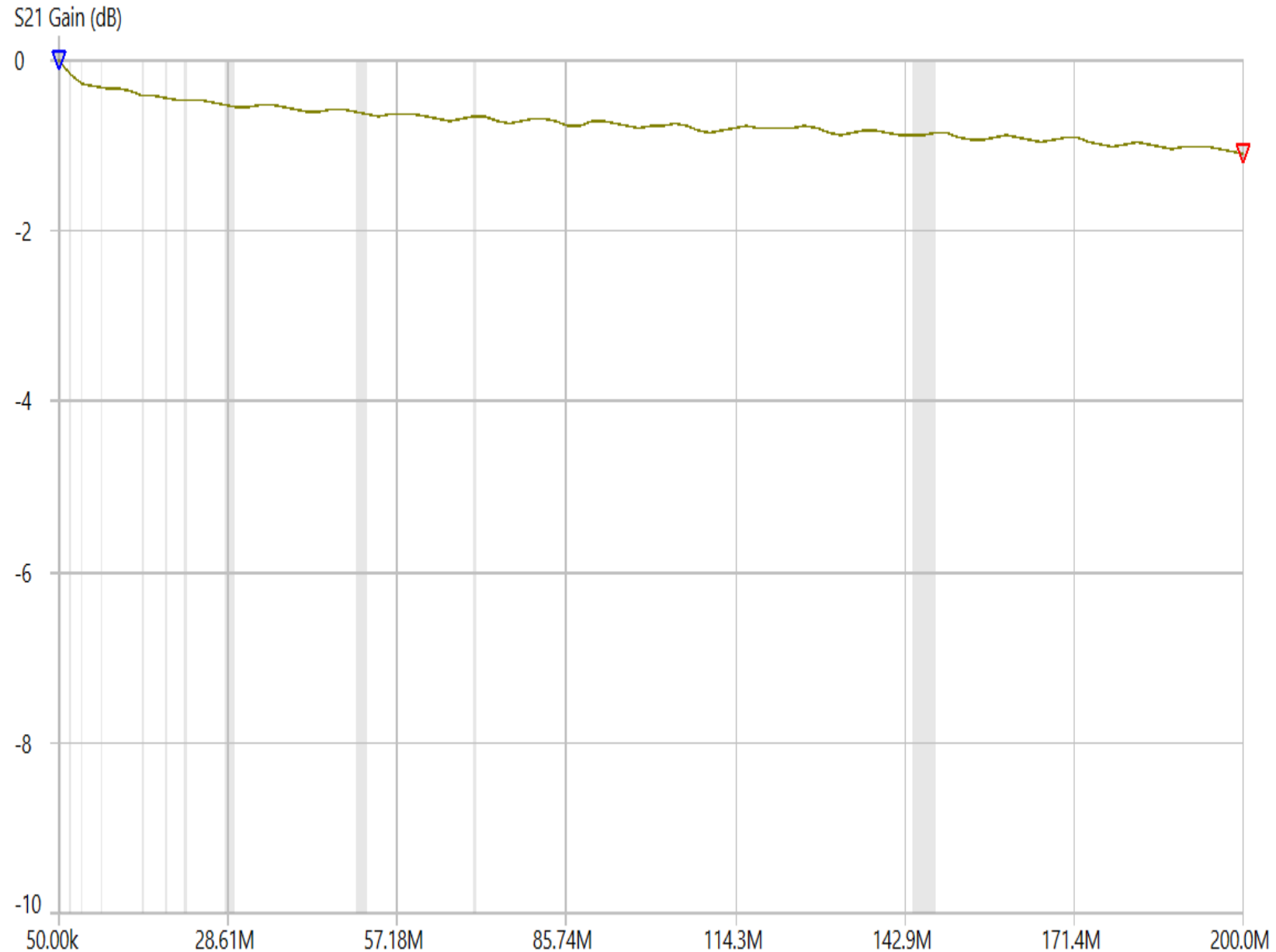


Measuring the Impedance (gain) of a common mode choke



Measuring loss in coax cable

“Through” test using both
ports on the NanoVNA



Where to get one?

Amazon - \$40 to \$60



SEESII Nanovna-H Vector Network Analyzer,Upgraded HW3.6 10KHz-1.5GHz MF HF VHF UHF Antenna Analyzer, Measuring S Parameters, Voltage Standing Wave Ratio,Phase,Delay,Smith Chart,Support Data Storage

[Visit the Seesii Store](#)

4.5 462 ratings | [Search this page](#)

Amazon's Choice Overall Pick

200+ bought in past month

\$52⁹⁹

Or \$9.79 /mo (6 mo). Select from 1 plan

Two-Day

FREE Returns

Color: **Nanovna-H**

Bundles with this item



Pros and Cons

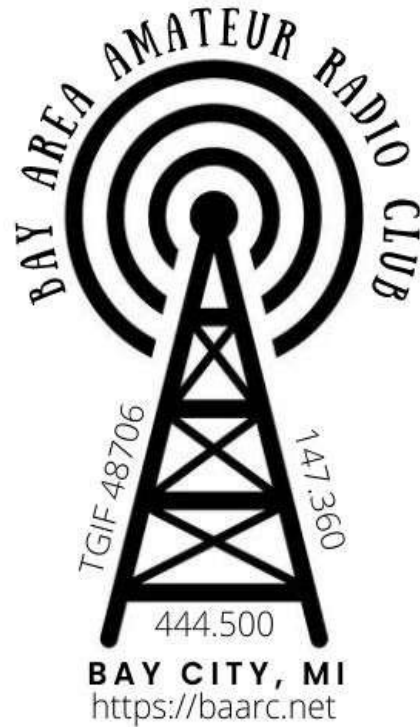
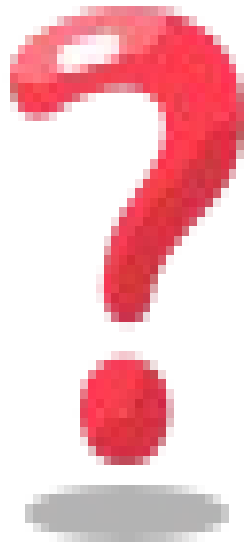
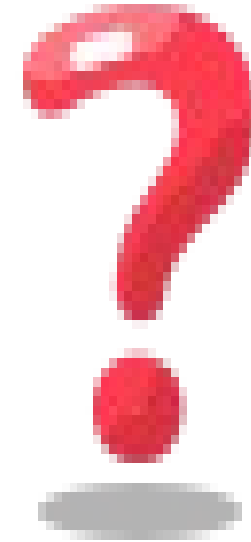
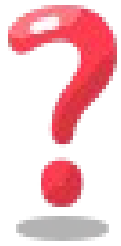
Pros:

- Cheap
- Versatile
- LOTS of information on the web
- Portable
- Can save calibrations
- Computer software:
 - Fairly easy to use
 - Can save and print graphs

Cons:

- Small (but computer helps)
- Learning curve
- Delicate????
- Software:
 - Can be a little unstable

Questions?



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