

pocketVNA - portable vector network analyzer

Hardware version 2.0 - Released Februar 2017

- 2-port Vector Network Analyzer
- Fully bidirectional (S11, S21, S12, S22) - magnitude and phase

Applications:

Antenna analyzer, impedance scanning, cable length measurement, filter tuning



Specification:

Frequency range	500 kHz to 4 GHz
Typical dynamic range (System dynamic range):	@350 MHz up to 70 dB @4 GHz up to 40 dB
Impedance range	3 to 1000 Ohms
Measurement speed:	10 ms per step plus communication (for example a 1001 points scan S11 only takes 12 seconds)
Number of steps:	1 to 10001 (Limited by measurement time)
Frequency setting resolution	1 Hz

General information:

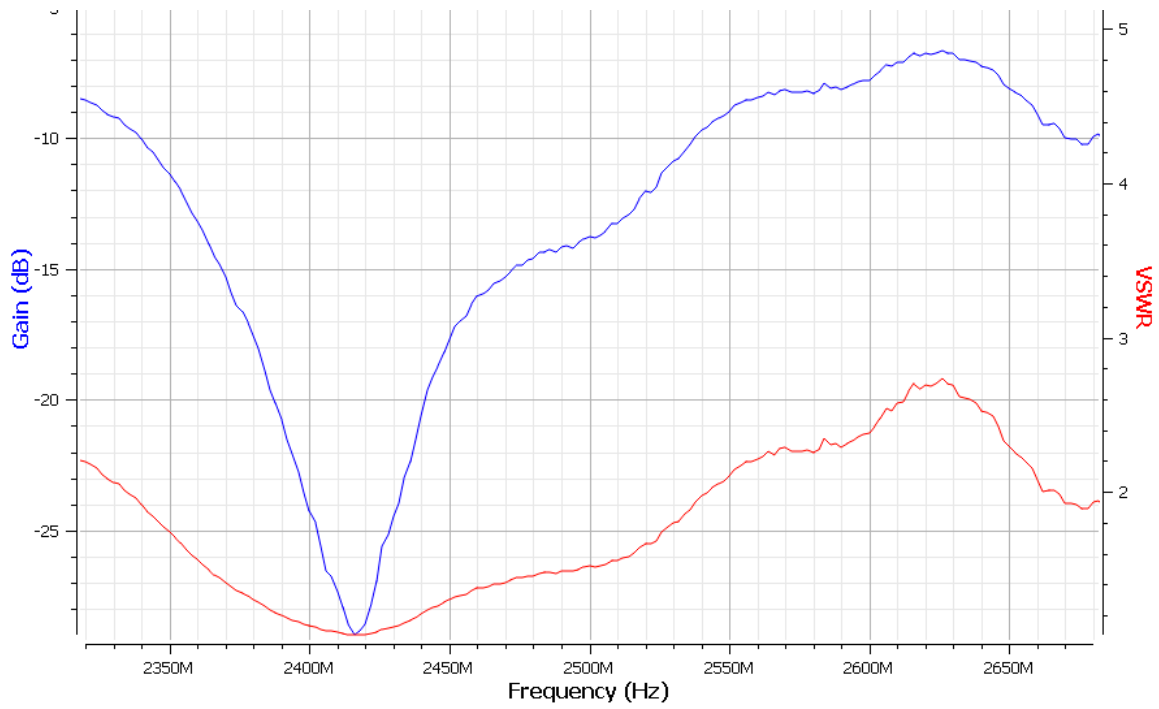
- Connection to PC: mini-USB
- RF connectors: SMA female

Software features:

- Available for Windows, MacOS and Linux, Android, Raspberry Pi
- Open API to access hardware with third-party software (Windows, MacOS, Linux, Raspbian, LabView...)
- OSL calibration functionality
- Time domain measurements
- Plot S-Parameter, Impedance, Phase, Resistance, Reactance, VSWR
- Plot in Smith chart
- Export to Excel, Touchstone
- Save complete sets of measurement together in one proprietary project file

Example measurements:

2.4 GHz antenna return loss and VSWR:



PZT crystal impedance scan - impedance and phase:

