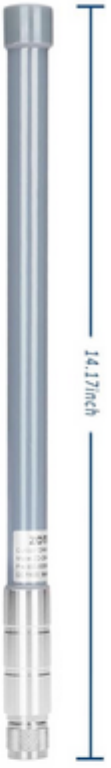
Meshtastic Open Source Project

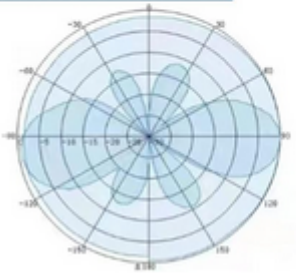
Community Published Antenna Test Report

Product Data

Manufacturer	ZDTTECH		**Supplier**	AMAZON
Manufacturer Part No	ZD-OA-915_7NM		**Supplier Part No**	
Manufacturer Description	LoRa Fibirglass 7dBi N		**Purchase Date**	9/2/2023
Manufacturer Freq Spec	900~930 Mhz		**Purchase Cost**	$23.37 USD
Manufacturer Datasheet	https://www.amazon.com/gp/product/B09WXW6TDD			

Electrical Data	
Frequencies	902-928MHz
Polarization	Vertical
Gain	7dBi
Horizontal 3dB Beamwidth	360°
Vertical 3dB Beamwidth	18°
VSWR	≤1.5:1
Impedance	50Ω
Power Handling	100W
Environmental Data	
Operating Temperature Range	-40℃ to +60℃
Storage Temperature Range	-55℃ to +75℃
Relative Humidity	5%-95%
Mechanical Data	
Input Connectors	N-J
Connector Position	Bottom
Dimensions	360xΦ23mm
Weight	0.32kg
Maximum Wind Velocity	200km/hr
Radome Material	Fiberglass
Mounting Kit	Included
Mounting Pole Diameter	Φ30-55mm
Extension Cable Connector	N Female to RP-SMA Male
Adapter Connector	RP-SMA Female to SMA Male
Main Features	
Outdoor Omni Antenna;Cover LORA900 Band;Vertocal Polarization;Fiberglass Radome	





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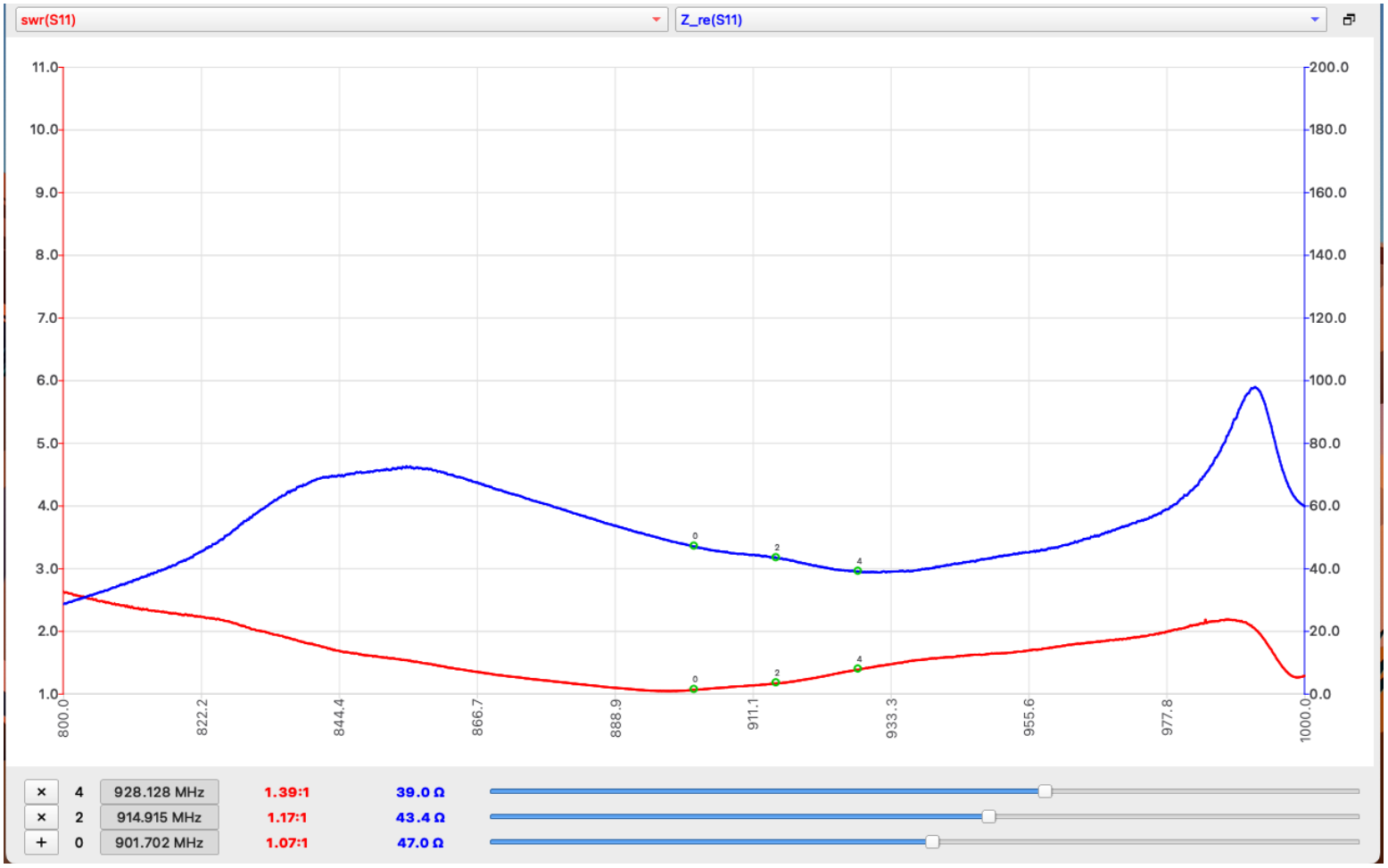
Test Results

VSWR Measurements

902Mhz (Marker 1) 1.07:1 915Mhz (Marker 2) 1.17:1 928Mhz (Marker 3) 1.39:1



Notes: Tested across 6 antenna’s on nanoVNA V2. All antenna's were consistant with minor differances.

Tests Performed By	Corey DeLasaux
Tests Performed On	10/9/2023