

Dual Polarized Waveguide Probe

ANTP02-0140S-X-131

Lorentz offers a line of dual-linearly polarized high-performance probes covering 12.0~40.0 GHz. These probes are designed specifically for near-field antenna measurements with typical gain 9 ± 2 dBi.

Electrical Characteristics

Frequency range	12.0 ~ 18.0 GHz
Polarization	Dual linear
Gain	9 ± 2 dBi
VSWR	≤ 1.8
Cross-polar discrimination	≥ 30 dB
Port to port isolation	≥ 35 dB

Mechanical Characteristics

RF interface	SMA female, $\times 2$	
Material	Aluminum	Painting, Blue
Dimension (A \times B)	(131 \times 75) mm	

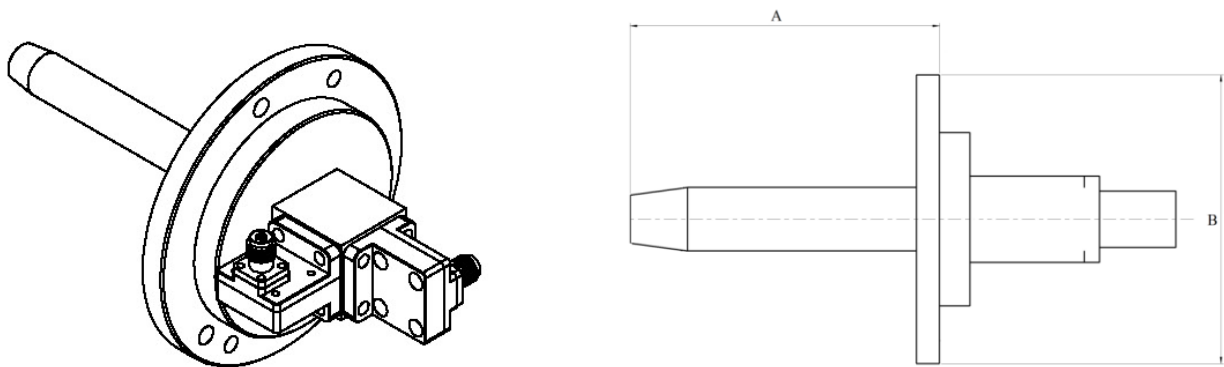


Figure 1 Outline drawing

S-Parameters

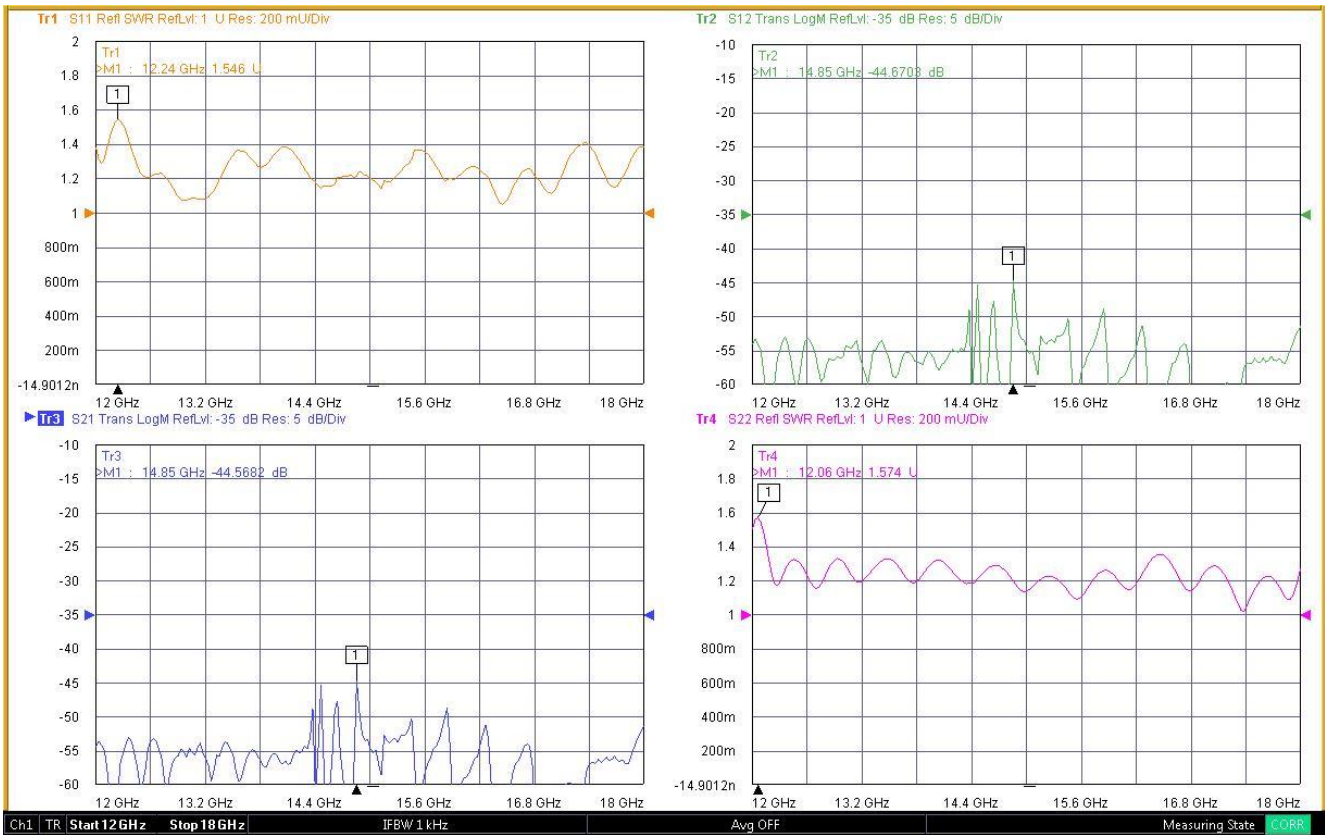


Figure 2 The measured S-parameters of ANTP02-0140S-X-131

Radiation Performance

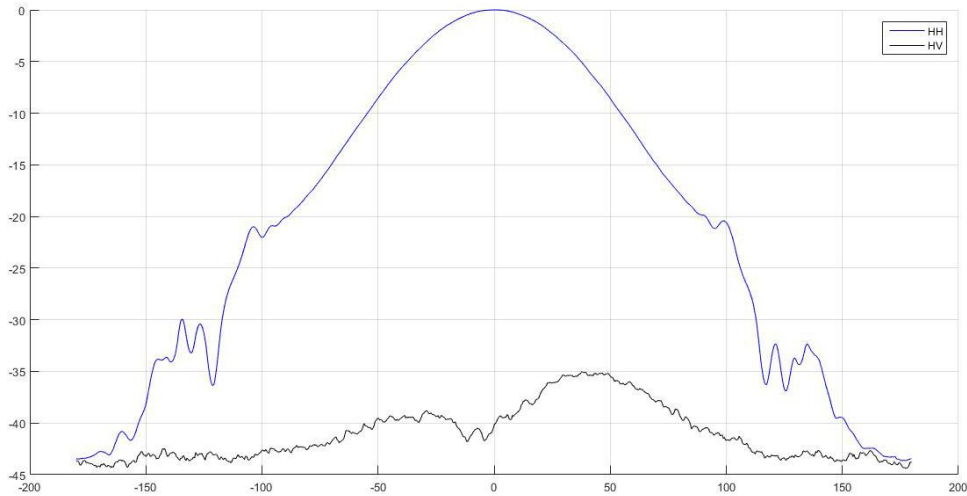


Figure 3 Radiation pattern @ low-frequency (horizontal polarization)

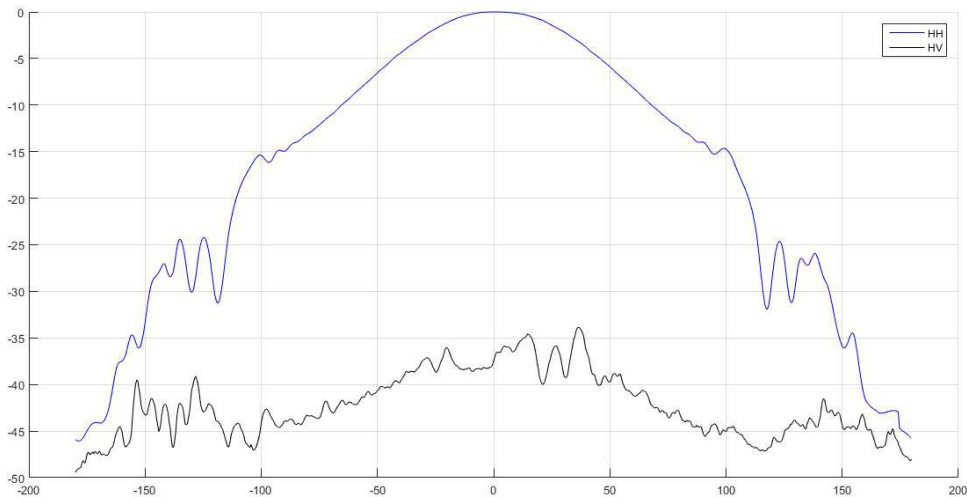


Figure 4 Radiation pattern @ mid-frequency (horizontal polarization)

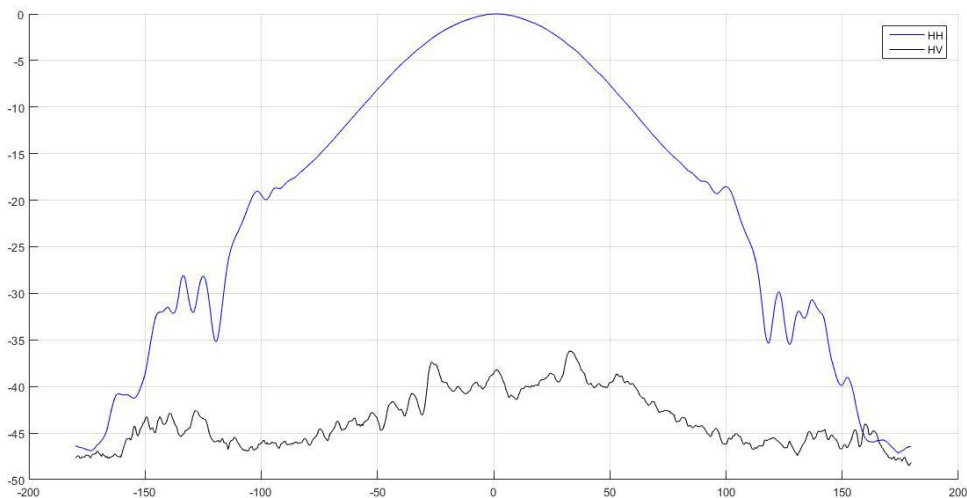


Figure 5 Radiation pattern @ high-frequency (horizontal polarization)

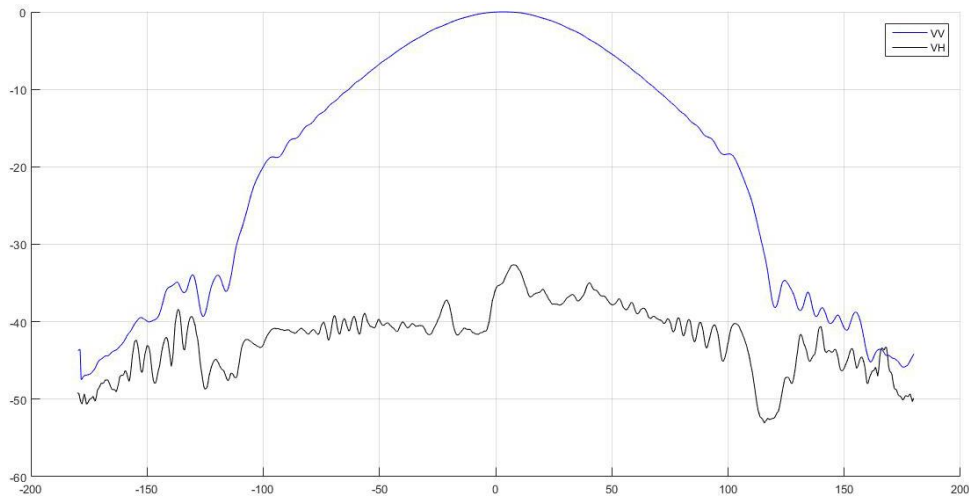


Figure 6 Radiation pattern @ low-frequency (vertical polarization)

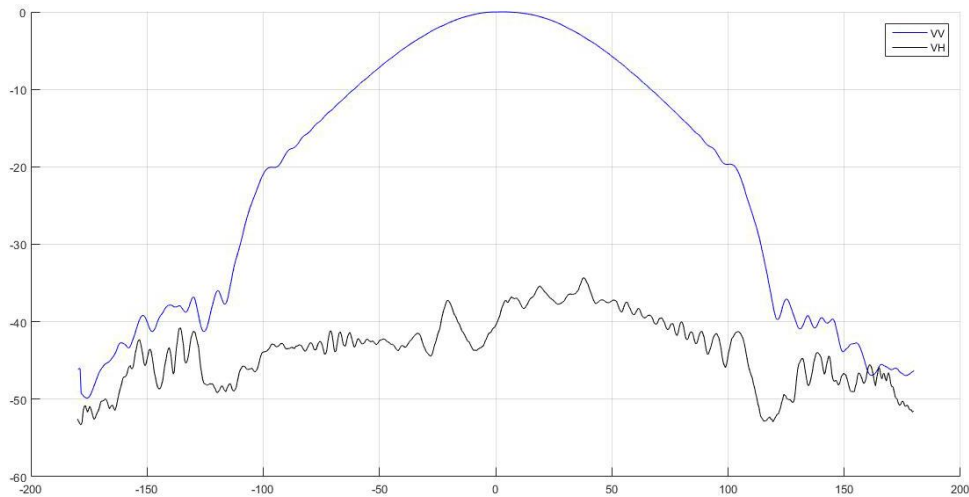


Figure 7 Radiation pattern @ mid-frequency (vertical polarization)

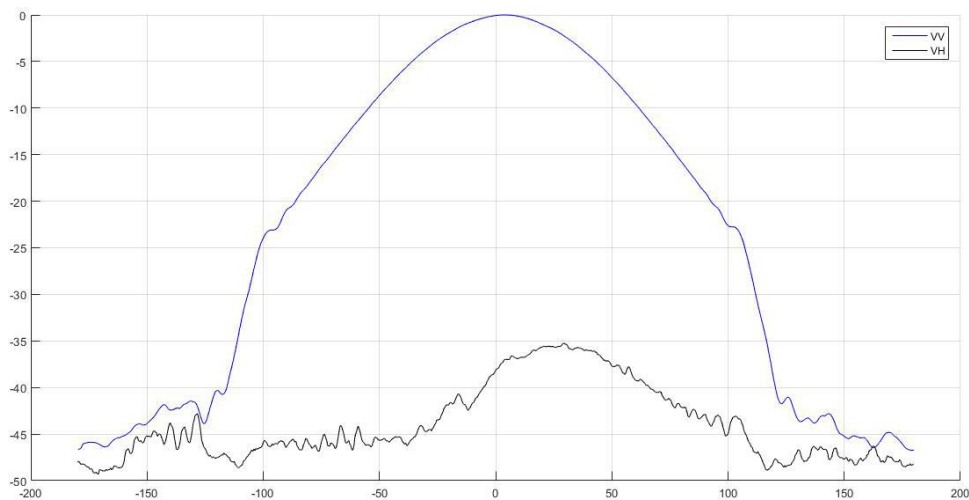


Figure 8 Radiation pattern @ high-frequency (vertical polarization)