

Airvine WaveCore Antenna Datasheet
Part Number: 170-00010-001/2
Sept 2024

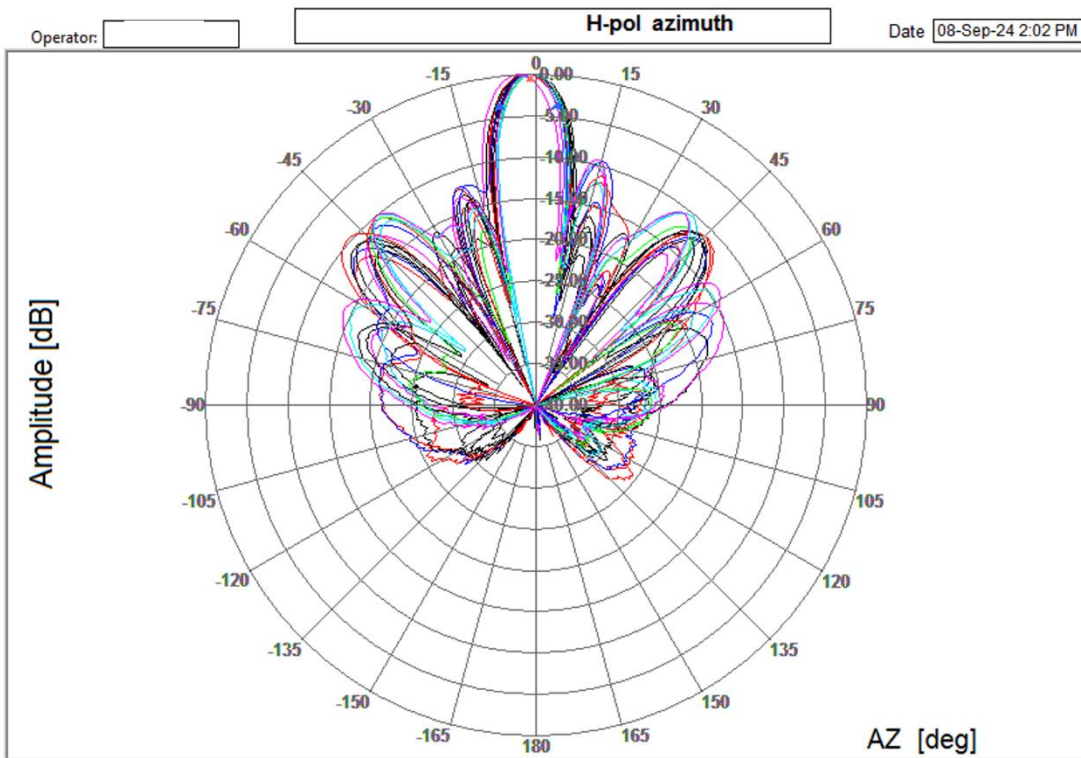
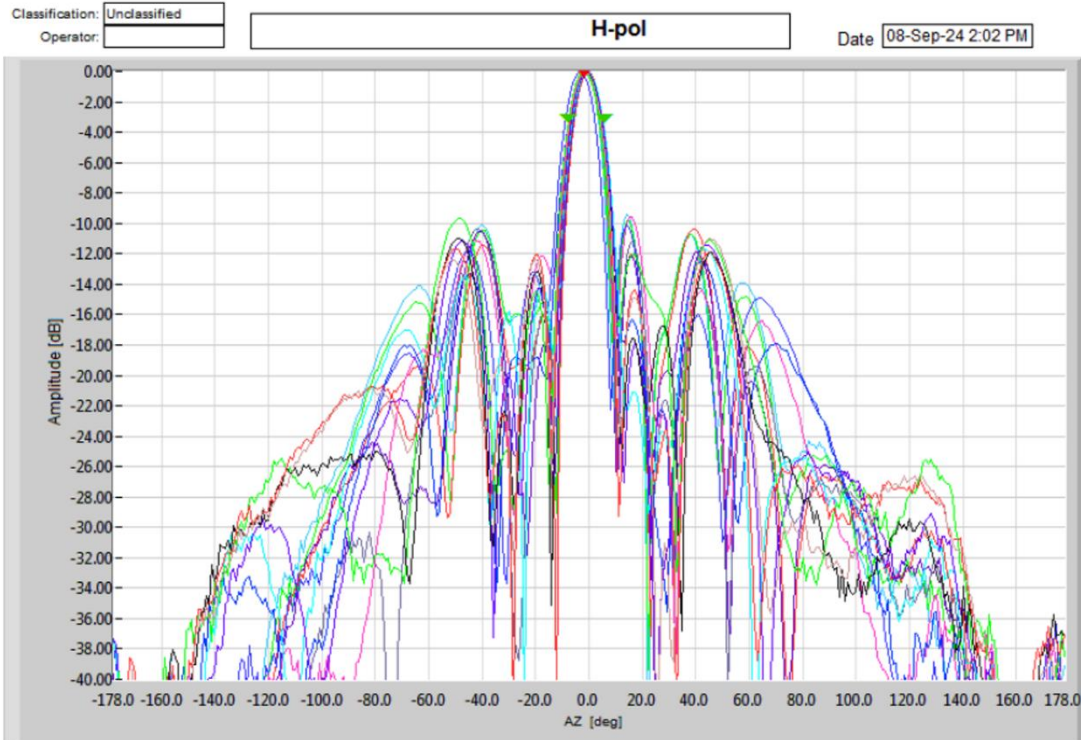
Specifications:

Electrical and RF	
Antenna Type	4 Polarity, Directional, Panel
Frequency range	5.925 to 7.125 GHz
Gain (Typical)	16 dBi
Polarization	V, H, & Dual Slant $\pm 45^\circ$
3dB Beamwidth Azimuth	18° Maximum
3dB Beamwidth Elevation	38° Maximum
Input power, max.	4 Watts
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
Mechanical	
Dimensions (HxW)	220mm x 220mm
Cable/Connectors	Four Low Loss Coax Cables with MCXX connectors on one end (to 6G RF module) the other end connected to Panel Antenna (solder to antenna is suitable).
Environmental and Regulatory	
Operating Temp	-45C to +70C
Hazardous Material	RoHS 3 Compliant
Hazardous Material	REACH Compliant (latest revision)
Max Humidity	95% (or higher)
Safety	Suitable for embedded use in a system where the system must be compliance to EN/UL/IEC 62368-1 Safety Standard.

Antenna Patterns

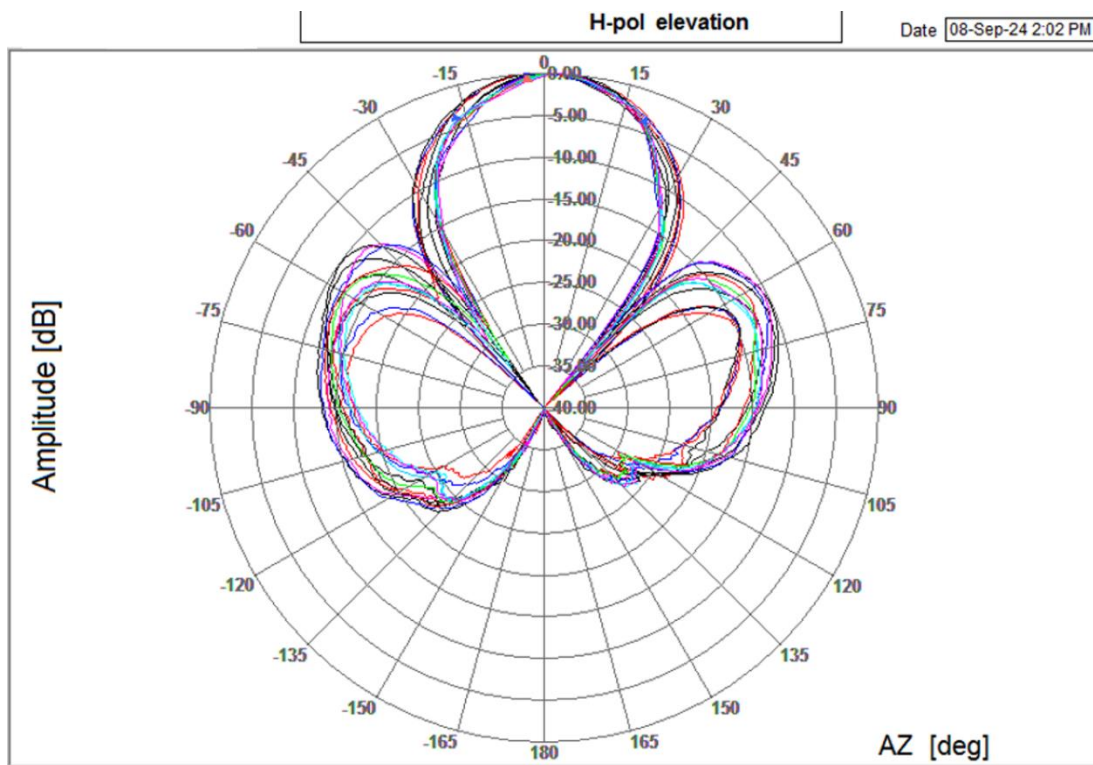
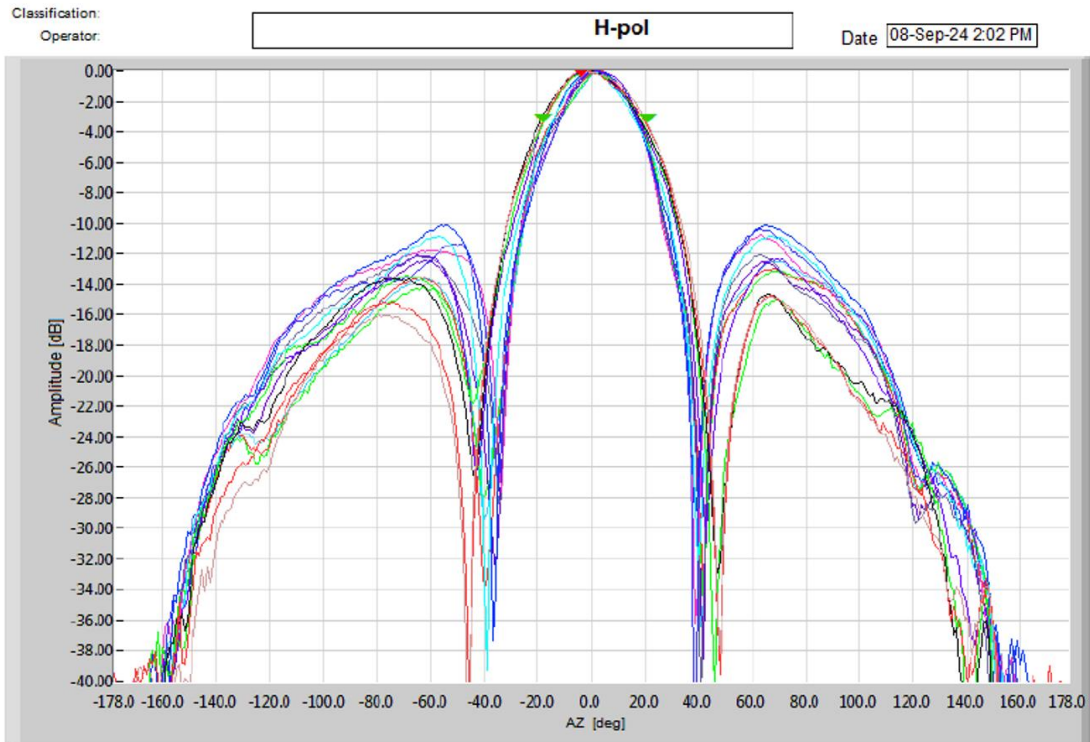
H Pol Azimuth

Peak 17.5 dBi at 7.0 GHz



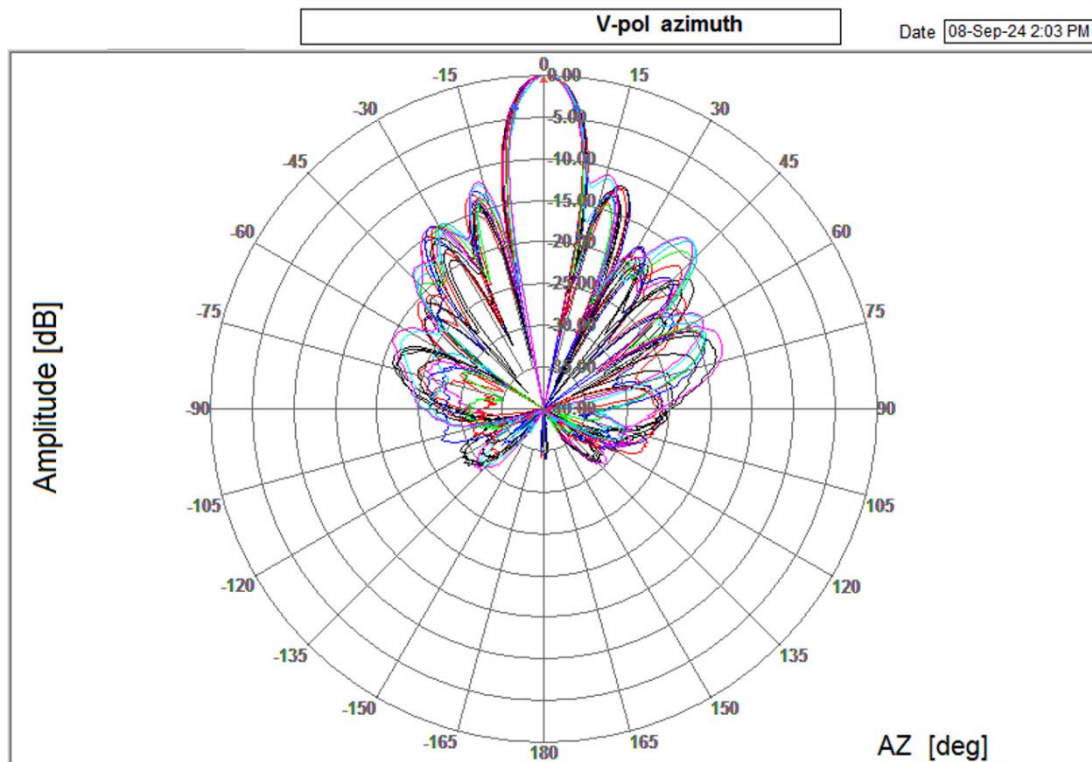
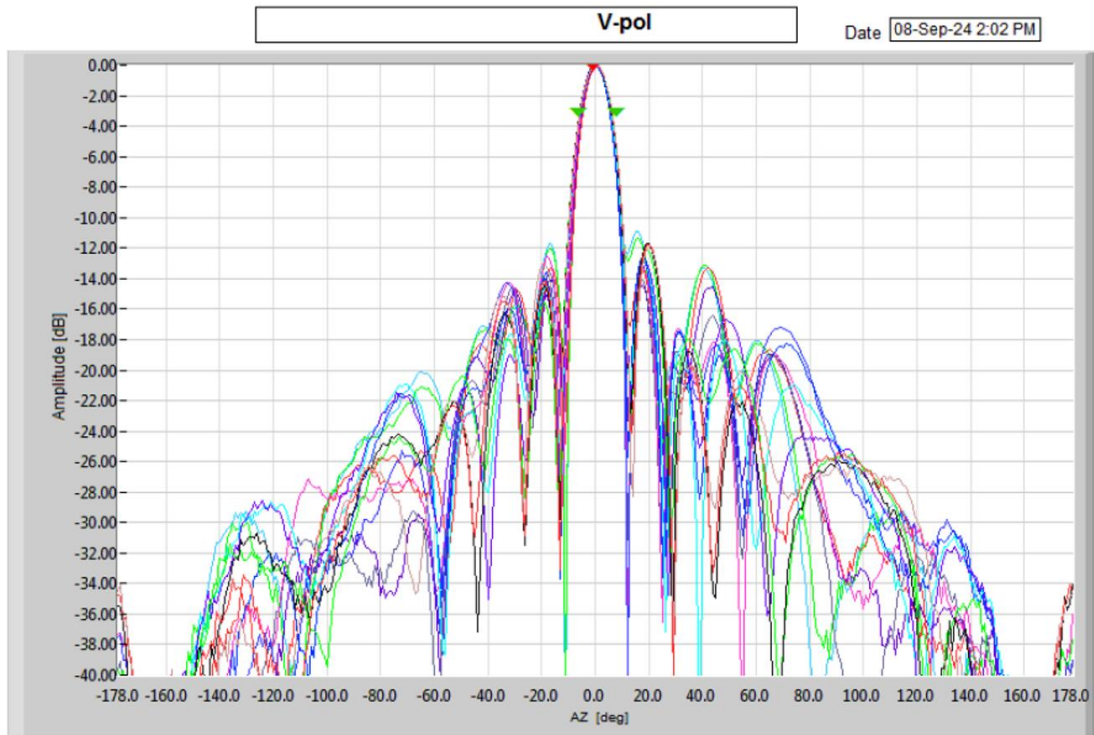
H Pol Elevation

Peak 17.5 dBi at 7.0 GHz



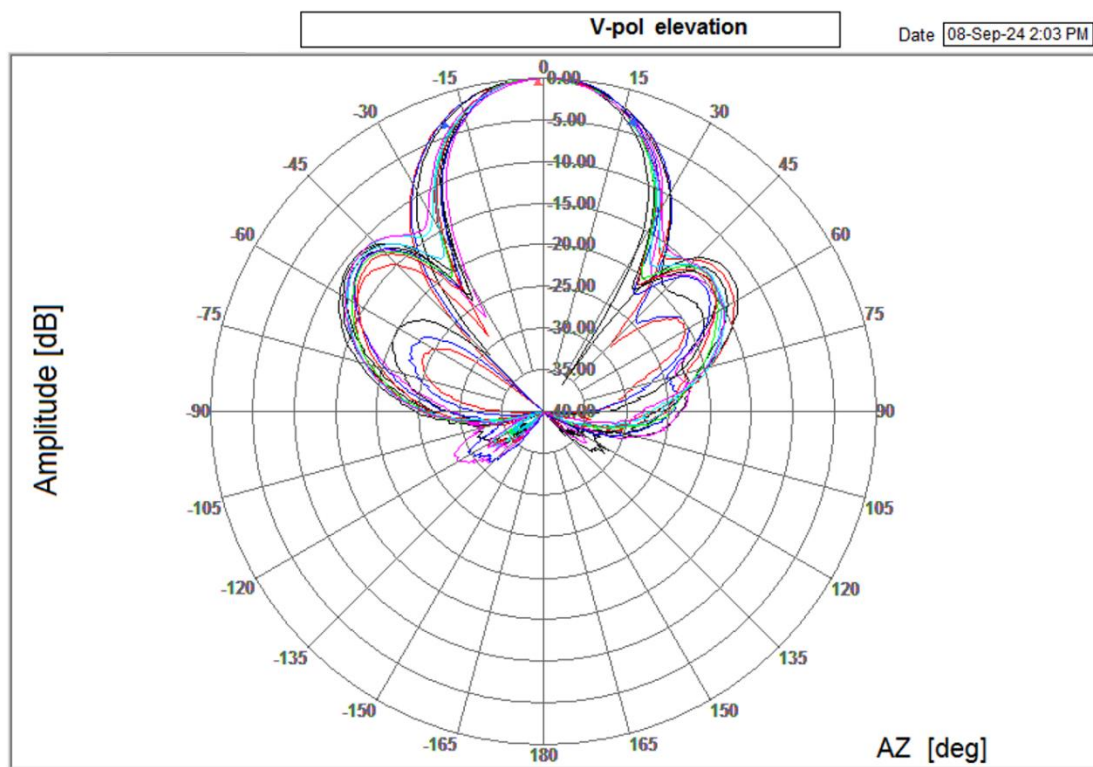
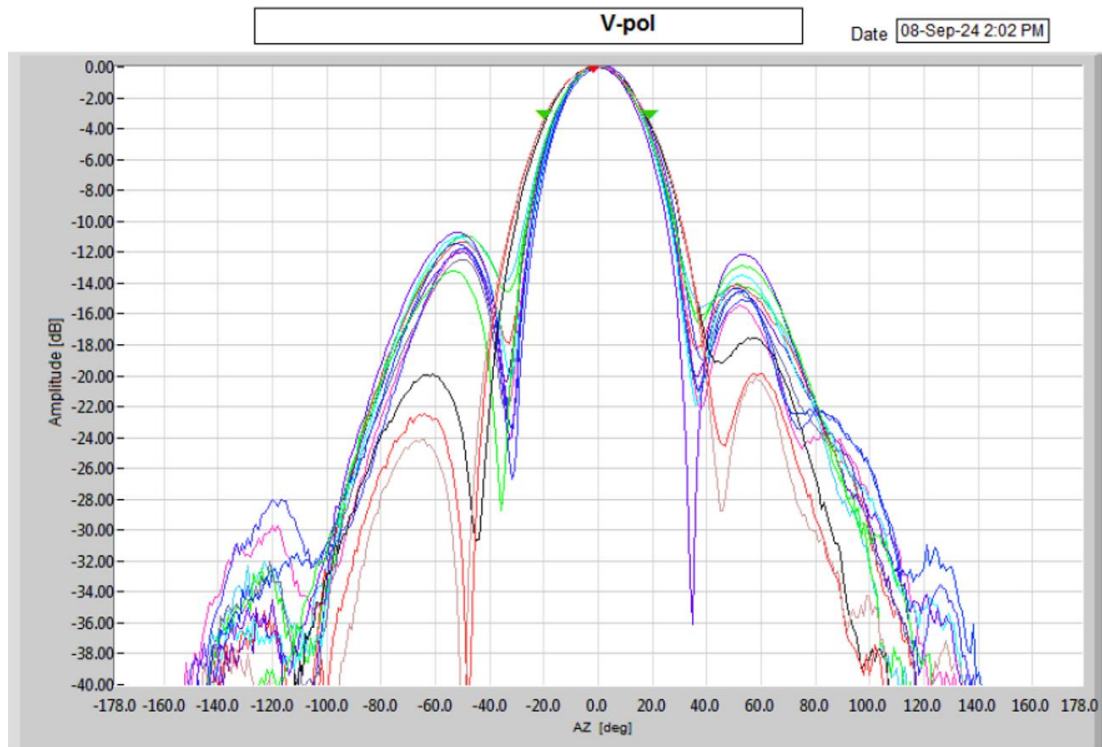
V Pol Azimuth

Peak 18.49 dBi at 6.5 GHz



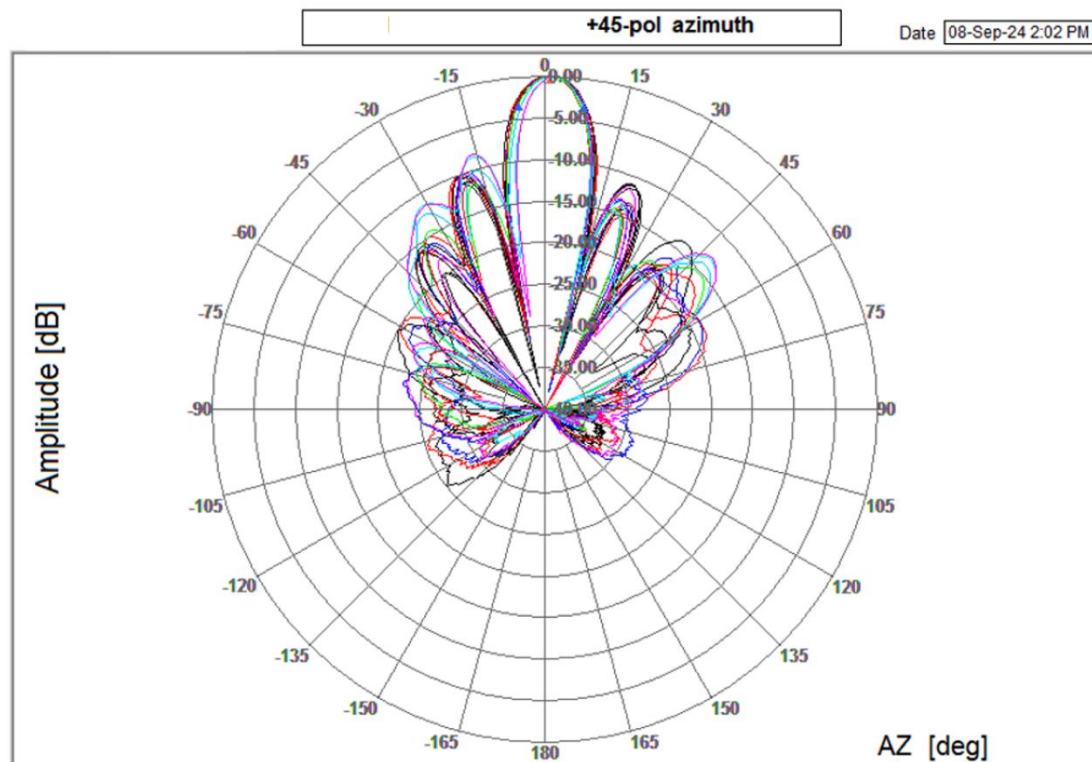
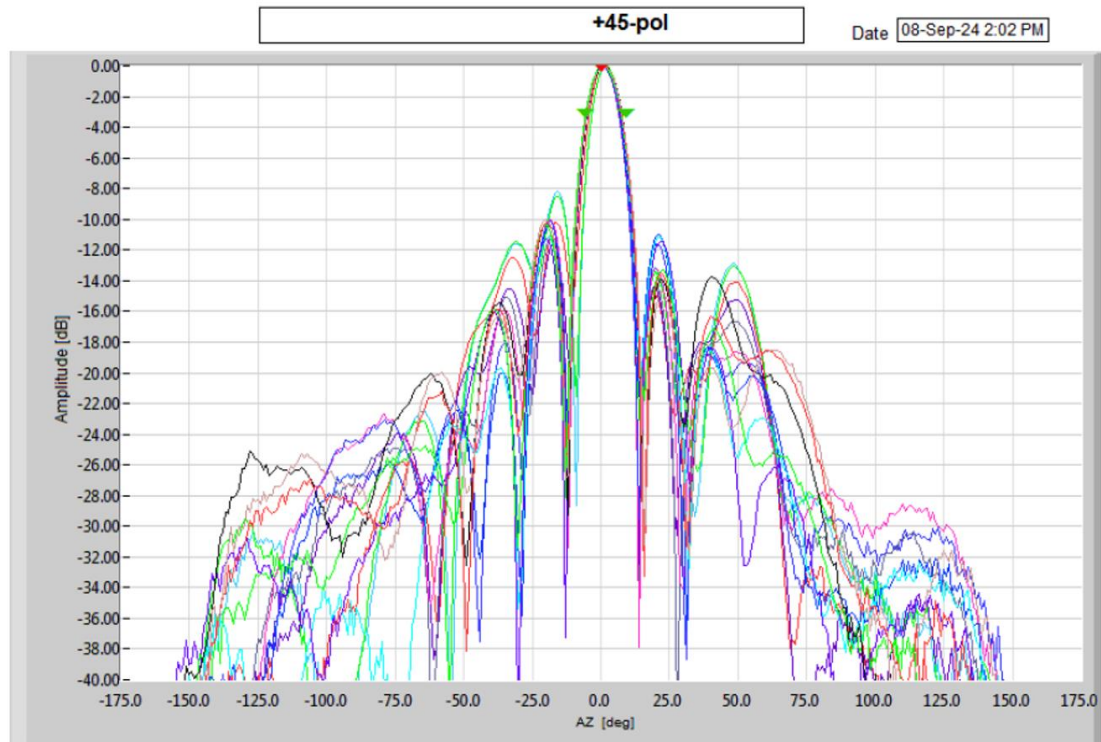
V Pol Elevation

Peak 18.49 dBi at 6.5 GHz



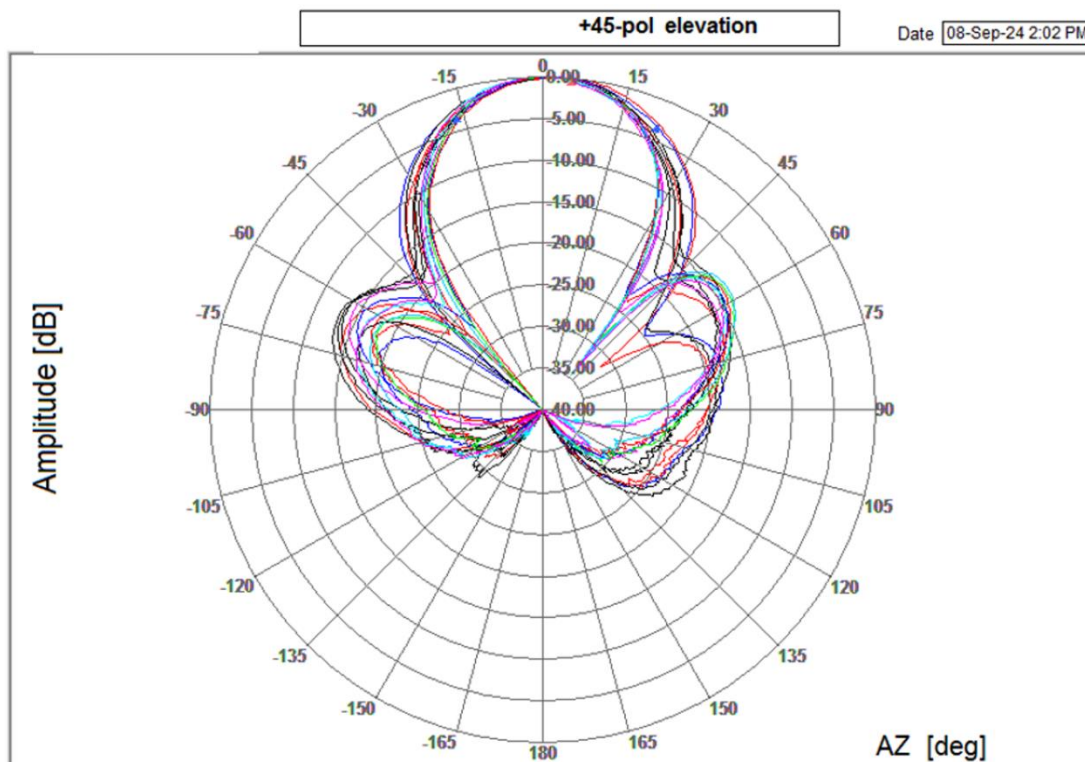
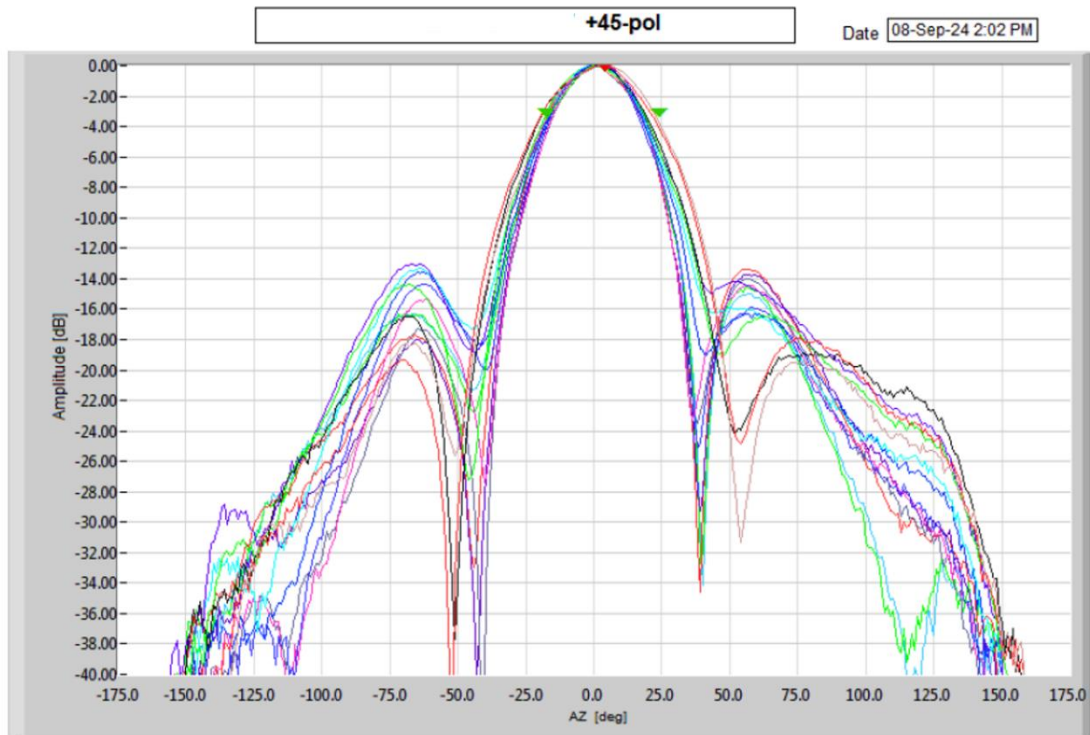
+45 Pol Azimuth

Peak 17.36 dBi at 7.0 GHz



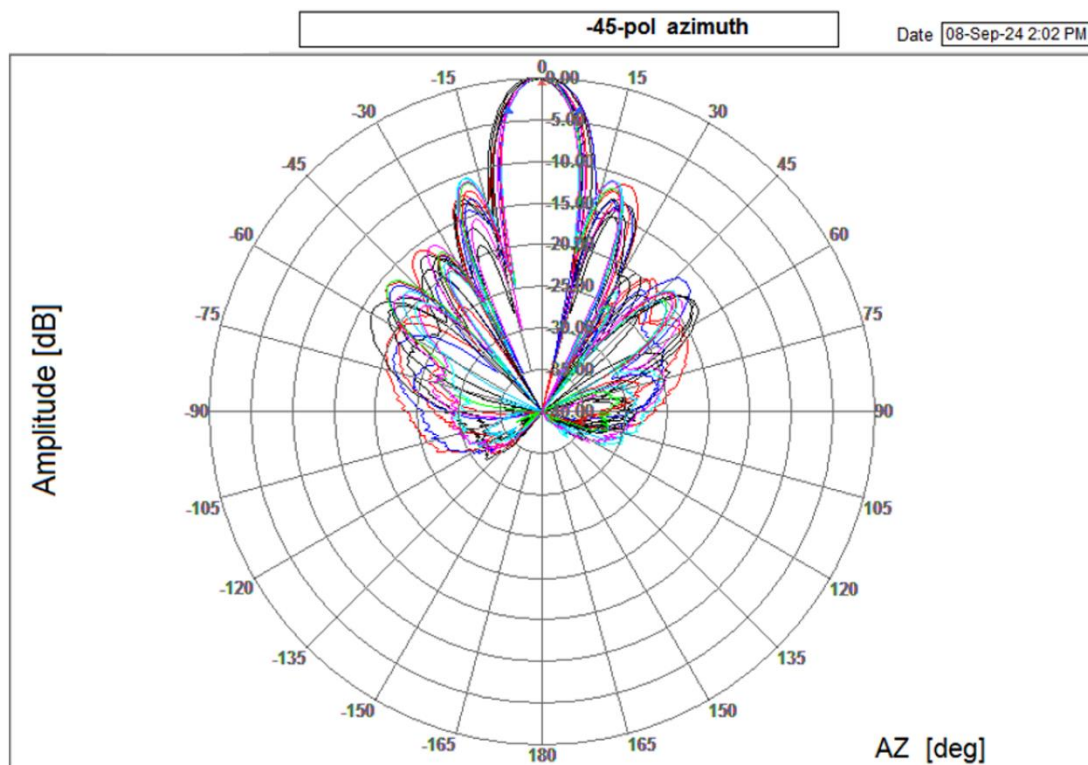
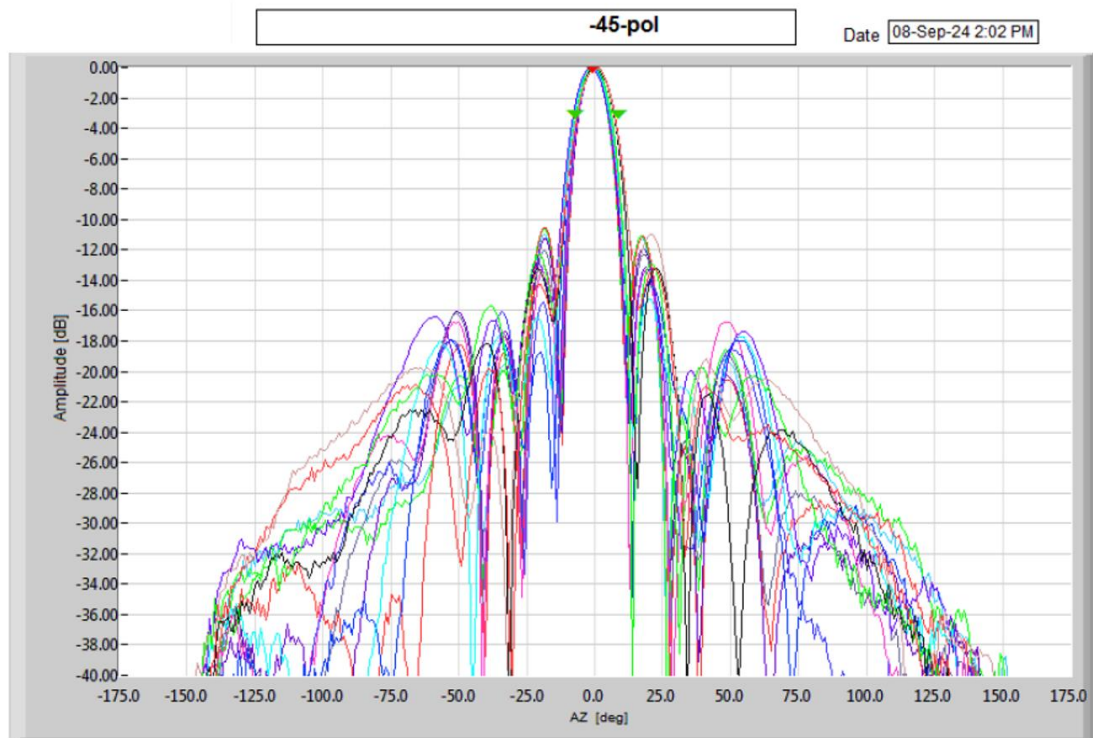
+45 Pol Elevation

Peak 17.36 dBi at 7.0 GHz



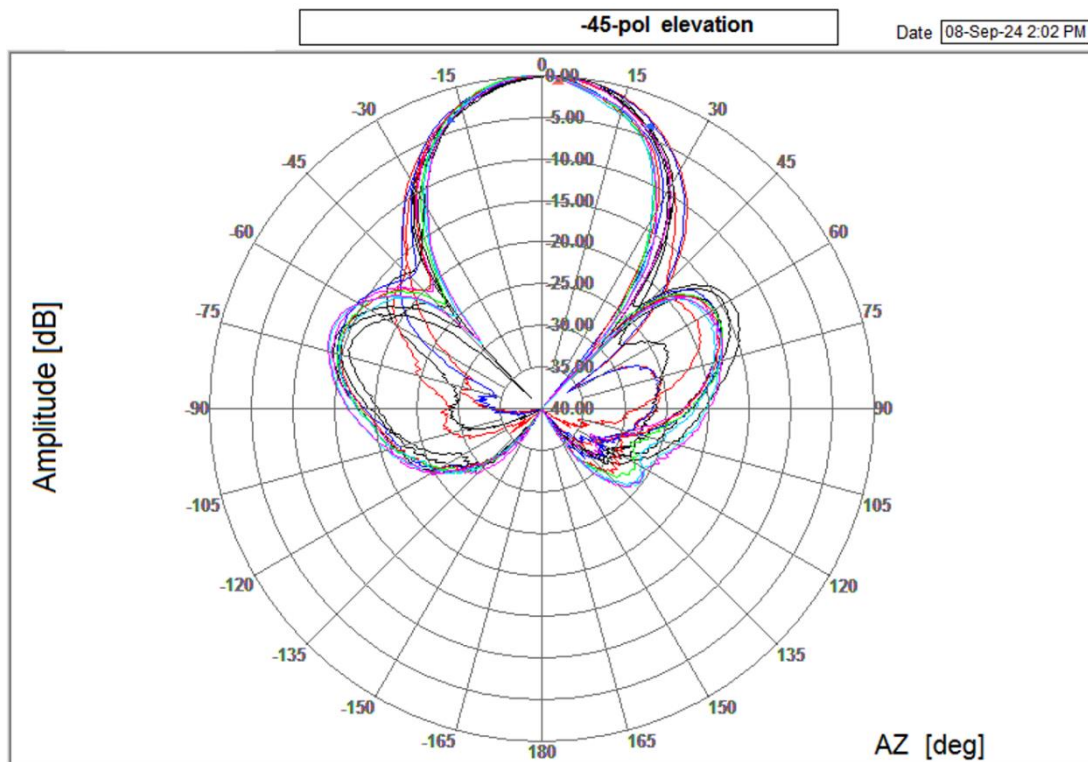
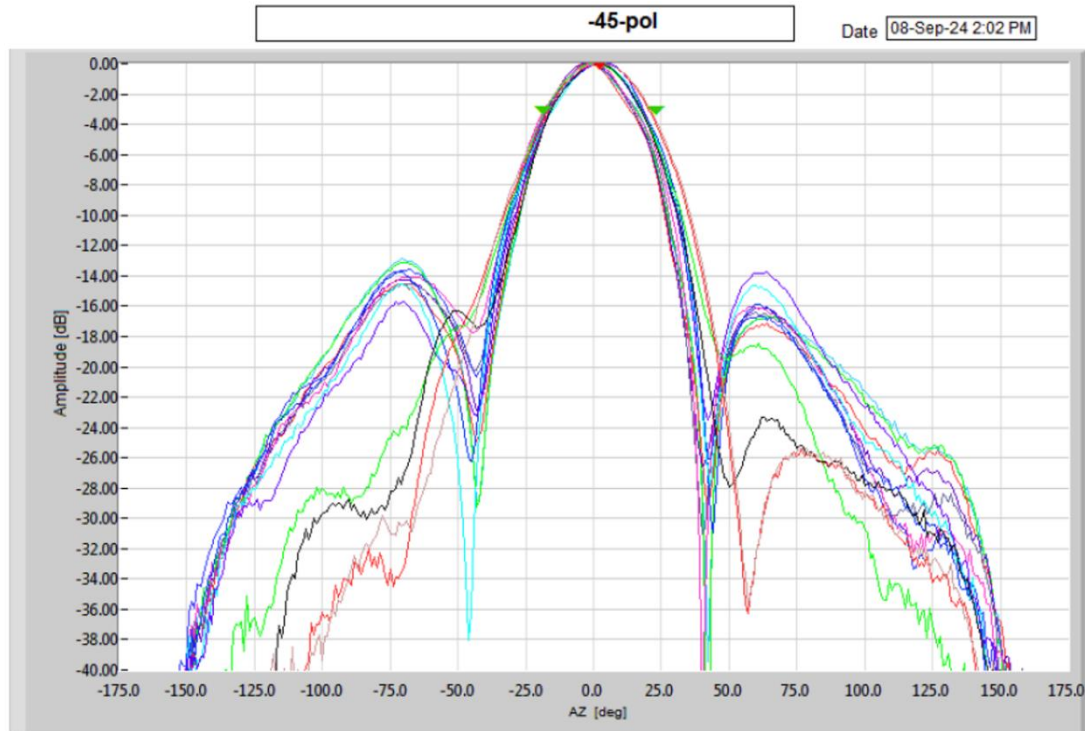
-45 Pol Azimuth

Peak 18.23 dBi at 7.0 GHz



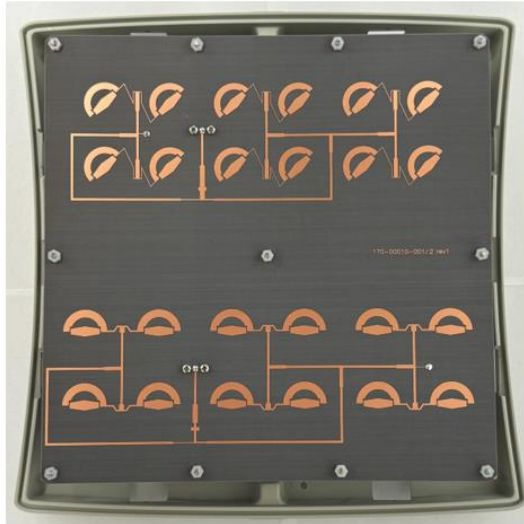
-45 Pol Elevation

Peak 18.23 dBi at 7.0 GHz



Antenna Picture

Front Side



Back Side

