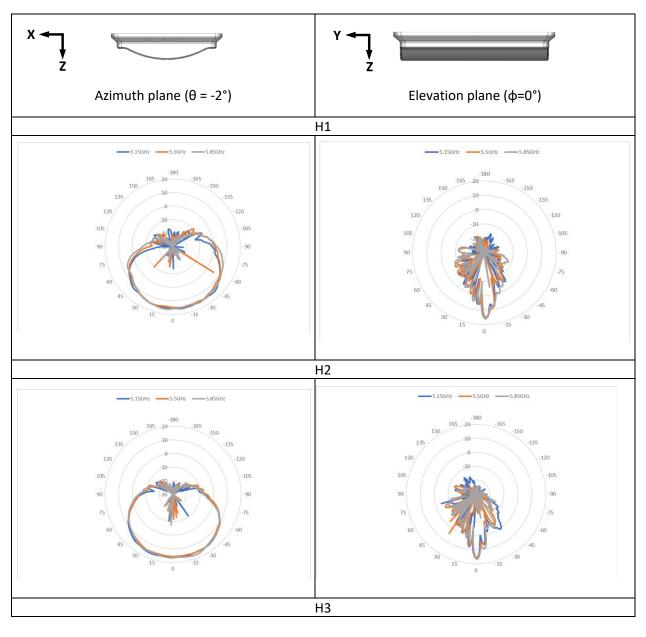
5GHz 8x8 Sector Antenna of ePMP 4500 Access Point Radio Gain Chart

ePMP4500 8x8 Antenna Summary Gain Vertical					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	17+-1 dBi	17+-1 dBi	17+-1 dBi		
ePMP4500 8x8 Antenna Summary Gain Horizontal					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	17+-1 dBi	17+-1 dBi	17+-1 dBi		

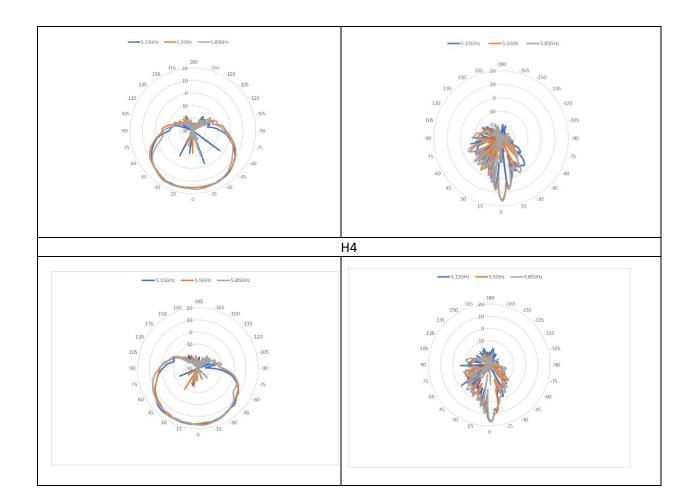
ePMP4500 8x8 Antenna: V1					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	16.58 dBi	16.61 dBi	17 dBi		
Peak Gain at polarization	(φ)9° (θ)-2°	(φ)11° (θ)-2°	(φ)4° (θ)-2°		
ePMP4500 8x8 Antenna: V2					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	16.80 dBi	16.32 dBi	16.76 dBi		
Peak Gain at polarization	(φ)-10° (θ)-2°	(φ)2° (θ)-2°	(φ)-20° (θ)-2°		
ePMP4500 8x8 Antenna: V3					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	16.76 dBi	16.19 dBi	16.59 dBi		
Peak Gain at polarization	(φ)-10° (θ)-2°	(φ)-2.5° (θ)-2°	(φ)-5.5° (θ)-2°		
ePMP4500 8x8 Antenna: V4					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	17 dBi	17 dBi	17 dBi		
Peak Gain at polarization	(φ)-7.5° (θ)-2°	(φ)-12° (θ)-2°	(φ)-4° (θ)-2°		
ePMP4500 8x8 Antenna: H1					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	16.25 dBi	15.46 dBi	16.27 dBi		
Peak Gain at polarization	(φ)-13° (θ)-2°	(φ)-11° (θ)-2°	(φ)11° (θ)-2°		
ePMP4500 8x8 Antenna: H2					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	16.14 dBi	15.77 dBi	16.92 dBi		
Peak Gain at polarization	(φ)-11° (θ)-2°	(φ)-20° (θ)-2°	(φ)-20° (θ)-2°		
ePMP4500 8x8 Antenna: H3					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	15.91 dBi	15.94 dBi	16.61 dBi		
Peak Gain at polarization	(φ)10° (θ)-2°	(φ)20° (θ)-2°	(φ)-6° (θ)-2°		
ePMP4500 8x8 Antenna: H4					
Frequency	5.15 GHz	5.5 GHz	5.85 GHz		
Peak Gain	16.95 dBi	16.20 dBi	16.74 dBi		
Peak Gain at polarization	(φ)12° (θ)-2°	(φ)10° (θ)-2°	(φ)-6° (θ)-2°		

2D peak Gain

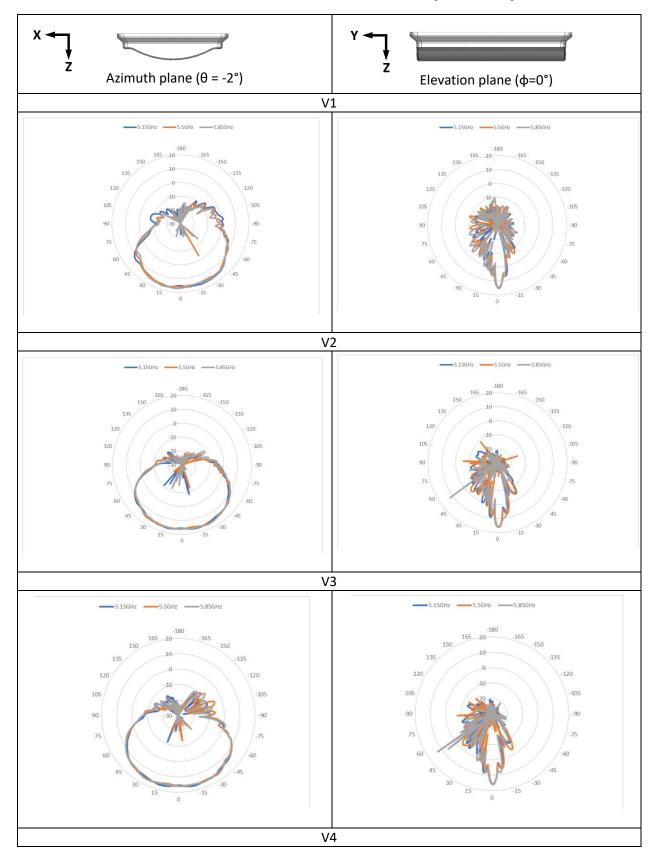
ePMP 4500 8x8 Antenna Pattern: Horizontal polarized ports



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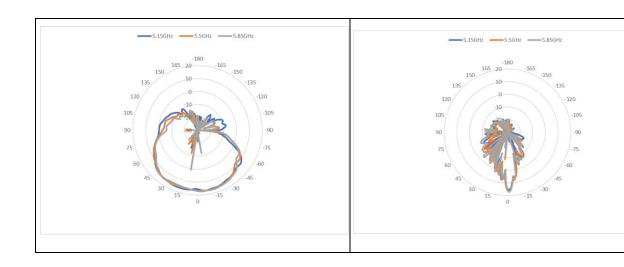


ePMP 4500 8x8 Antenna Pattern: Vertical polarized ports



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Picture from Probe
Picture from DUT

Measurement
Probe

16.14'

26'

30'

The Cambium Networks' chamber used for measurements presented is a fully anechoic, scanning near field antenna measurement system. The dimensions of the measurement chamber are 13' wide by 30' long is 12.5' tall. The anechoic foam pyramids used on the floor and walls are 24" tall and are spaced 9" on center. The anechoic pyramids on the ceiling are 18" tall and have the same spacing. The anechoic box is 26' long by 9' wide by 9' tall. The spacing of the center of the DUT to the probe is 16.14'

This system can make accurate measurements from as low as 400 MHz to as high as 40 GHz. This chamber has been used to make absolute gain measurements presented for regulatory certification.