



MG41E and MG51E Cellular Patch Antenna Datasheet





The Cellular Patch Antenna (MA-ANT-DUAL-C1) is ideal for situations that require higher directional gain towards a cellular tower. When mounted high up on a pole for a clearer line of site toward a cellular tower, the MG cellular gateway will have higher signal quality and power. The patch antenna can be used to help increase signal strength if the dipole antennas are not giving you a signal quality you need. This antenna can help boost coverage due to its unique cone shape coverage pattern when pointed towards the correct cellular tower for your preferred carrier.

Specifications

Category	Specifications
Ordering Information	MA-ANT-DUAL-C1 (Please use this SKU name when ordering)

patch antenna set)

MA-ANT-DUAL-C1 is a combination of 2 individual SKUs (patch sets) - MA-ANT-C1-B3, MA-ANT-C1-B4

Category	Specifications
Electrical	<p>Antenna Type: Narrow Patch</p> <p>Frequency Range:</p> <ul style="list-style-type: none">• 960 (617 - 960) MHz• 2170 (1710 - 2170) MHz• 2690 (2200 - 2690) MHz• 4100 (3300 - 4100) MHz• 5925 (4400 - 5925) MHz <p>Peak Gain (per range):</p> <ul style="list-style-type: none">• 960 @ 5.7dBi• 2170 @ 7.7dBi• 2690 @ 9.7dBi• 4100 @ 6.6dBi• 5925 @ 6.3dBi <p>Polarization: Linear, Horizontally (left) and Vertically (right)</p> <p>Beamwidth (horizontal): 60°</p> <p>Beamwidth (vertical): 60°</p>
Cables	<p>Length: 90cm</p>
Mounting	<p>Mounts to walls and poles</p>
Physical and Environmental	<p>Dimensions: 220mm x 220mm x 48mm</p> <p>Weight: 595g</p> <p>Material: PC, UV Resistance</p> <p>Temperature: -40°C to +85°C (-40°F to 185°F)</p> <p>Humidity: 95% at 55°C (131°F)</p> <p>Connector: RP-SMA</p>
Warranty	<p>1 year hardware warranty included</p>

Ordering Information	MA-ANT-C1-B3 (works only with MG41E and MG51E)
Regulatory	Certified for use with the MG41E and MG51E: MA-ANT-C1-B3

Category	Specifications
Electrical	<p>Antenna Type: Narrow Patch</p> <p>Frequency Range:</p> <ul style="list-style-type: none"> • 2170 (1710 - 2170) MHz • 2690 (2200 - 2690) MHz • 4100 (3300 - 4100) MHz • 5925 (4400 - 5925) MHz <p>Peak Gain (per range):</p> <ul style="list-style-type: none"> • 2170 @ 7.7dBi • 2690 @ 7.8dBi • 4100 @ 8.4dBi • 5925 @ 6.1dBi <p>Polarization: Linear, Horizontally (left) and Vertically (right)</p> <p>Beamwidth (horizontal): 60°</p> <p>Beamwidth (vertical): 60°</p>
Cables	Length: 90cm
Mounting	Mounts to walls and poles
Physical and Environmental	<p>Dimensions: 220mm x 220mm x 48mm</p> <p>Weight: 680g</p> <p>Material: PC, UV Resistance</p> <p>Temperature: -40°C to +85°C (-40°F to 185°F)</p> <p>Humidity: 95% at 55°C (131°F)</p> <p>Connector: RP-SMA</p>
Warranty	1 year hardware warranty included
Ordering Information	MA-ANT-C1-B4 (works only with MG41E and MG51E)
Regulatory	Certified for use with the MG41E and MG51E: MA-ANT-C1-B4

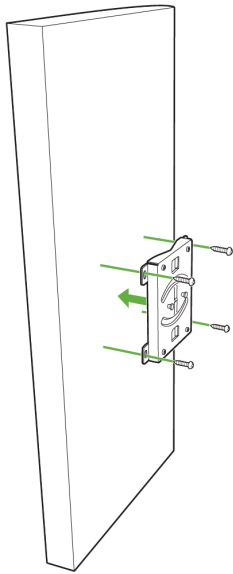


The mounting hardware bracket is included with the patch antenna. No other accessories are required to mount.

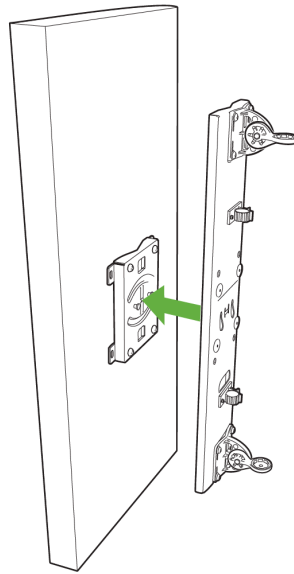
Install Guide

Below are the step-by-step instructions.

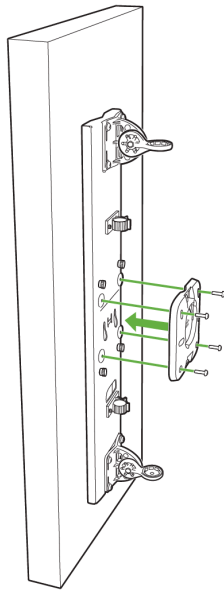
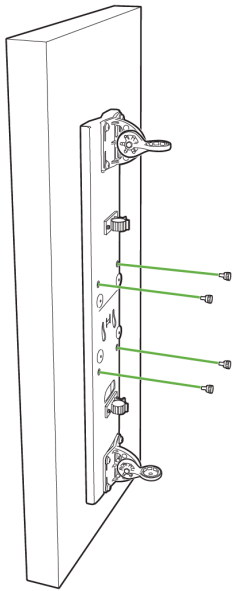
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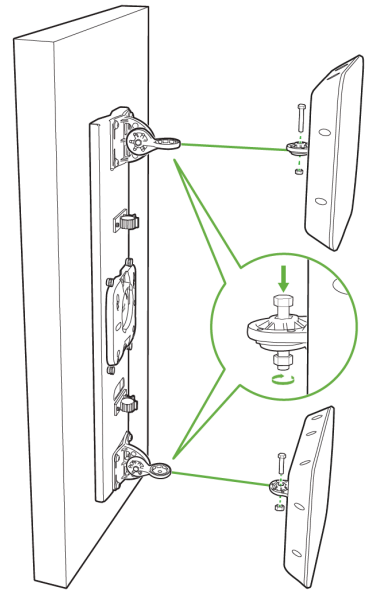
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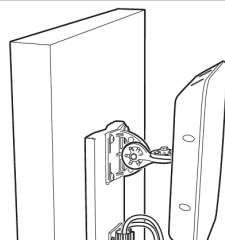
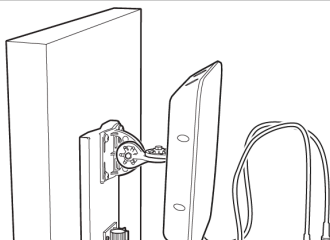
3



4



5





Radiation Patterns

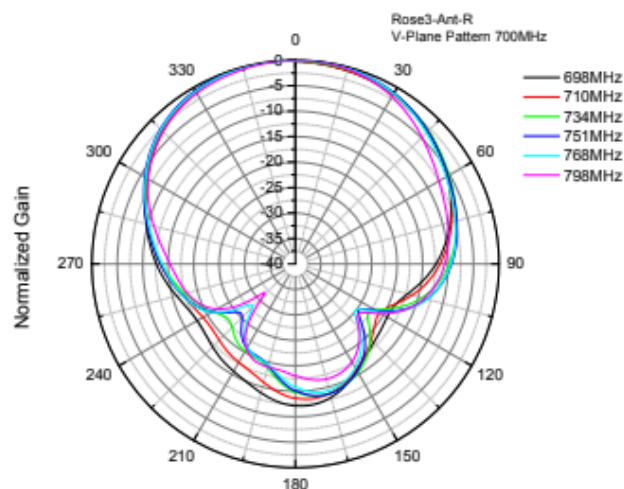
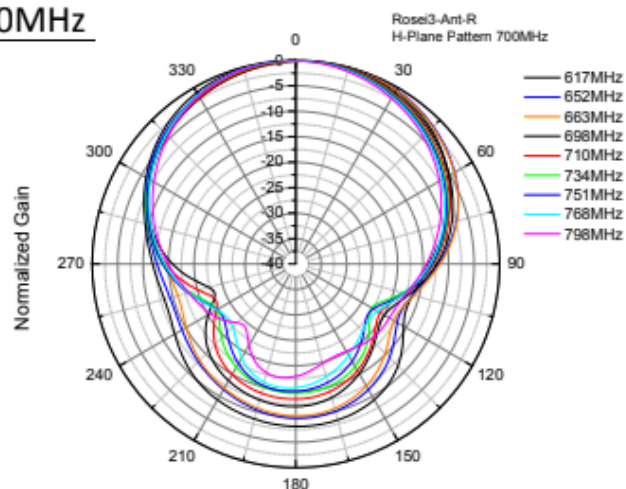
P/N: MA-ANT-C1-B3

Radiation Pattern -45°-port(Right)

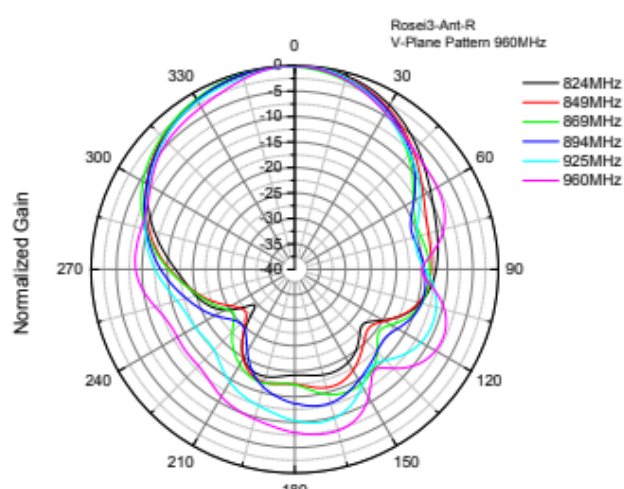
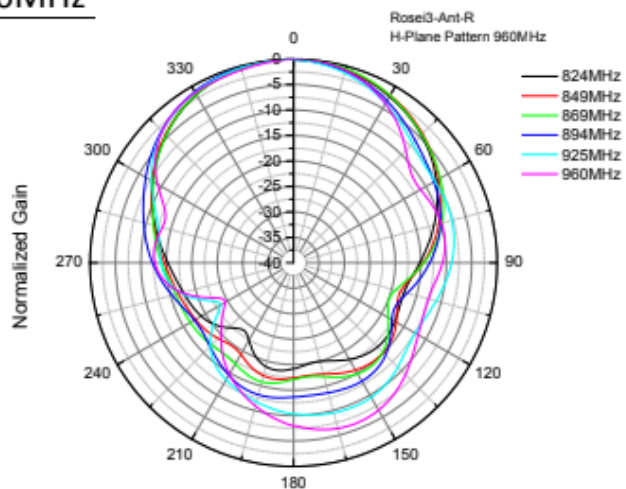
H-plane

V-plane

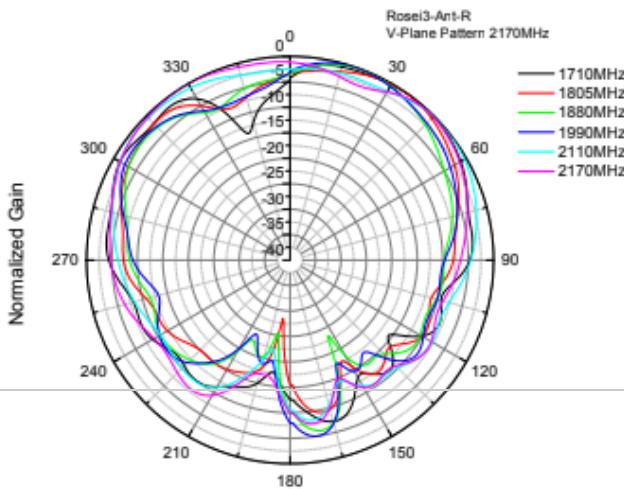
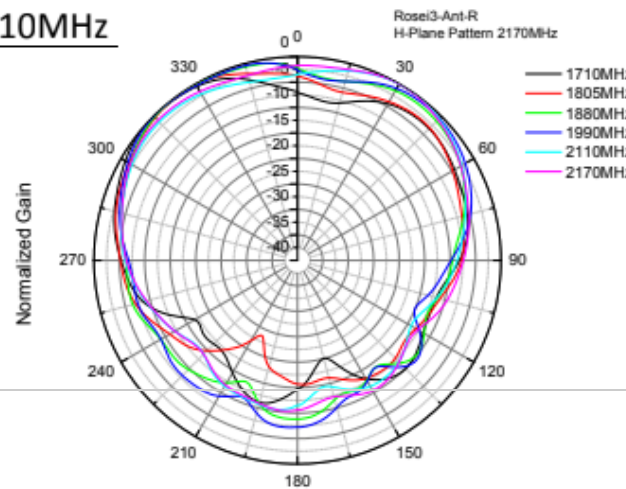
700MHz



960MHz

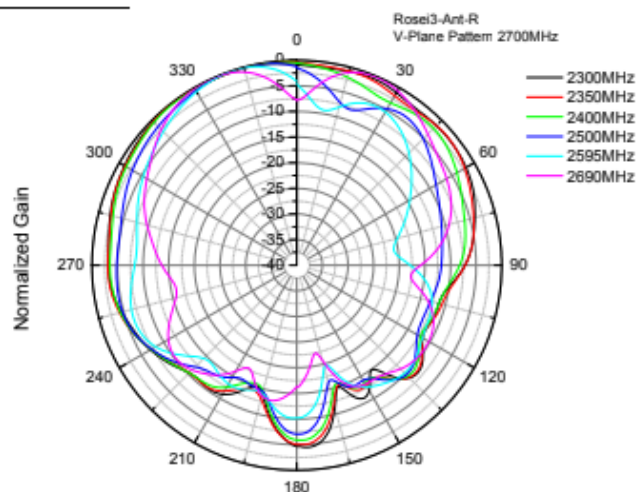


1710MHz

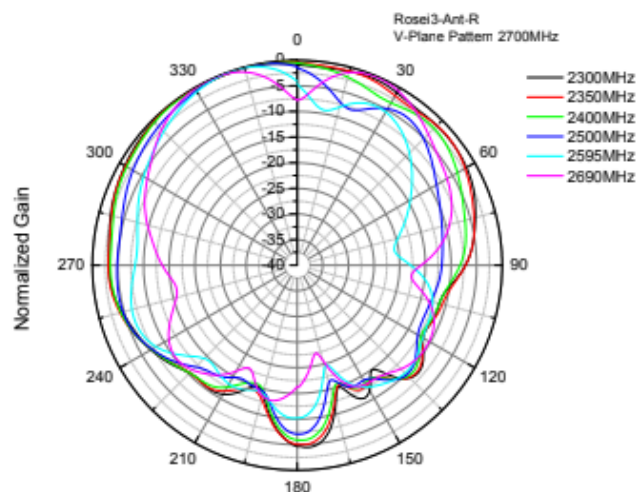


2700MHz

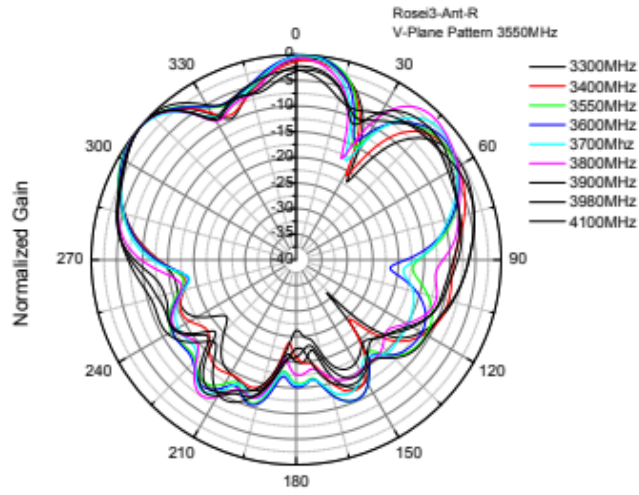
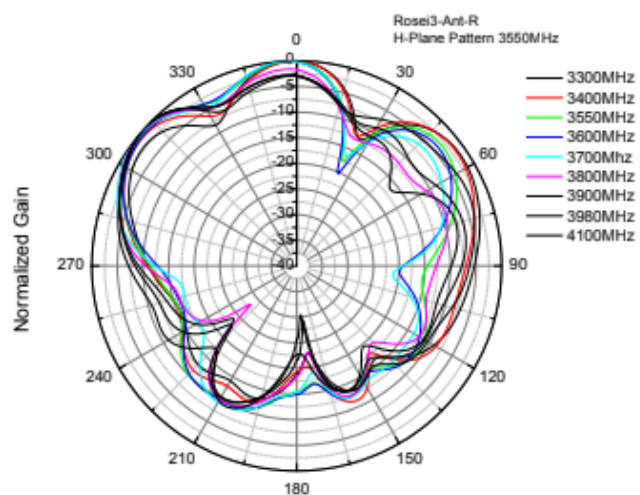
H-plane



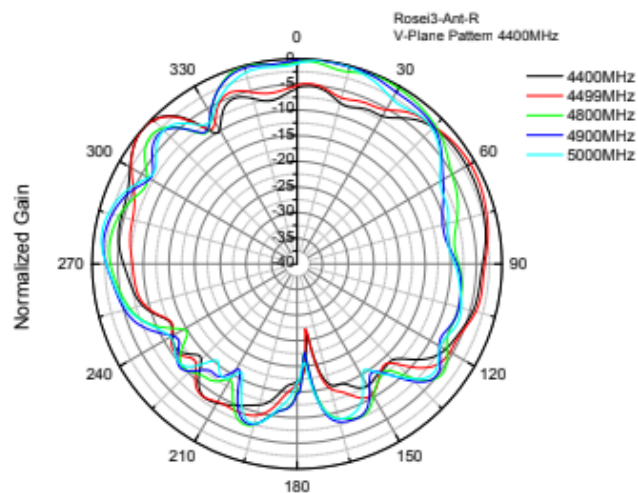
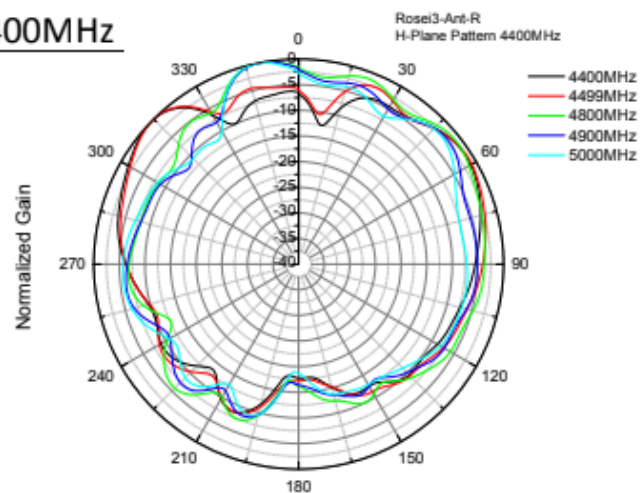
V-plane



3700MHz

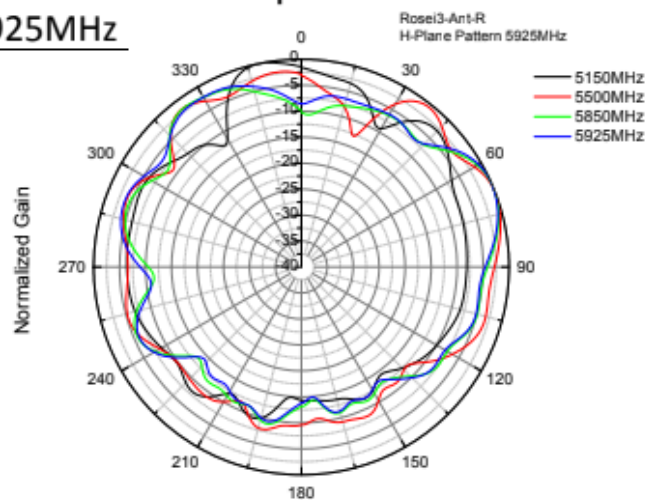


4400MHz

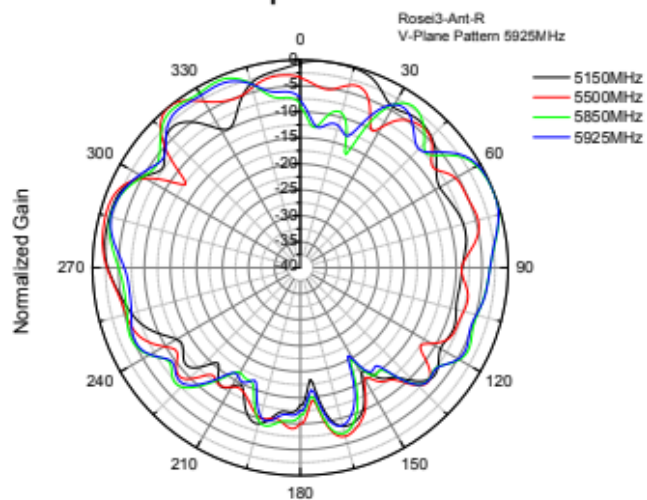


5925MHz

H-plane



V-plane

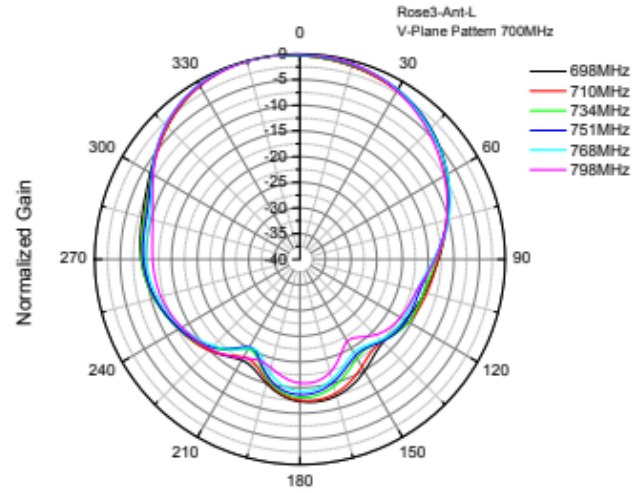
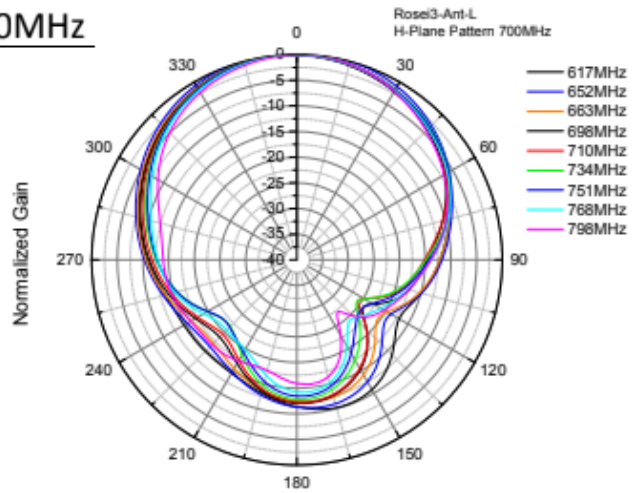


Radiation Pattern +45°-port(Left)

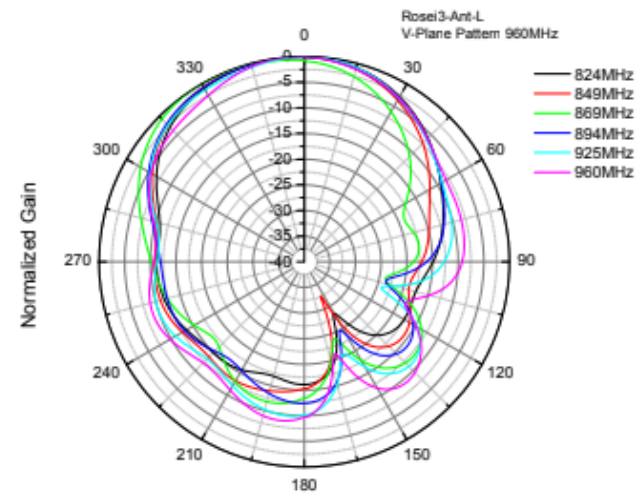
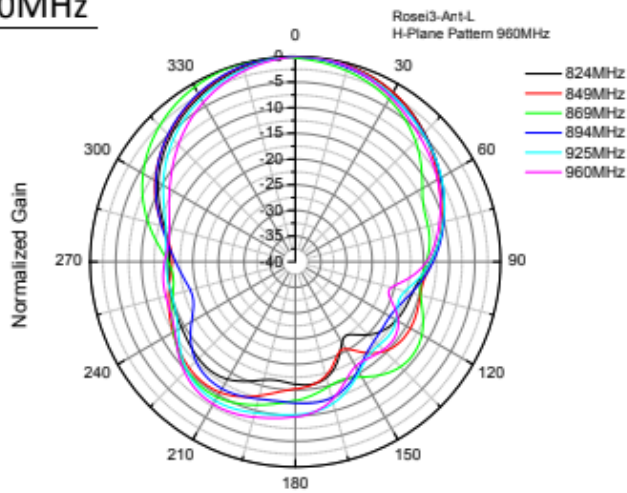
H-Plane

V-Plane

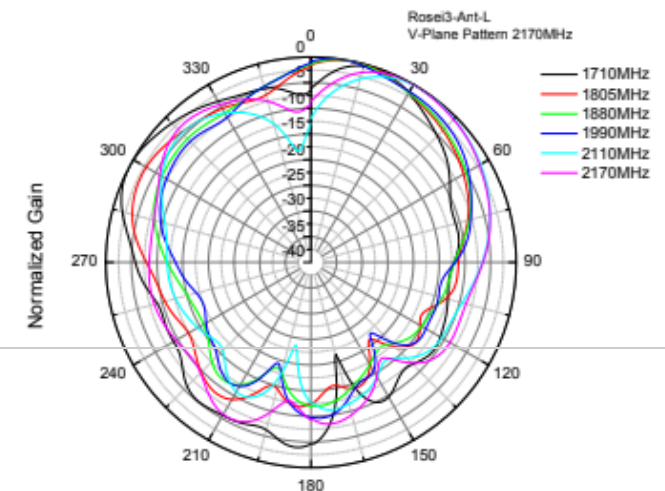
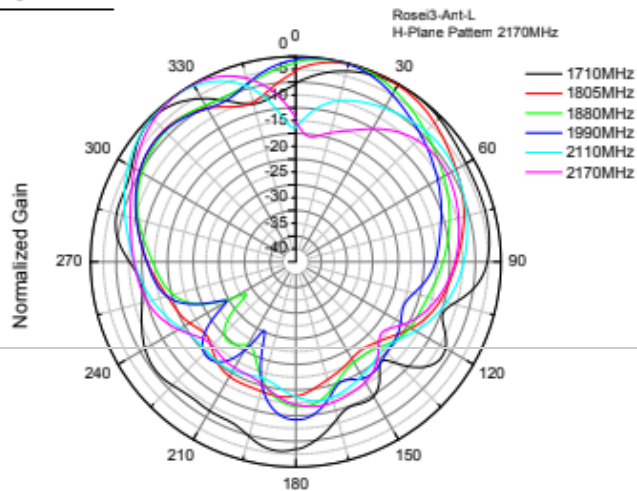
700MHz



960MHz



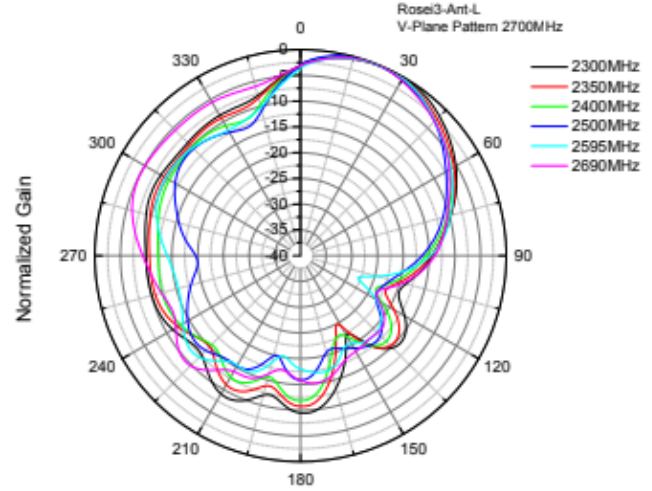
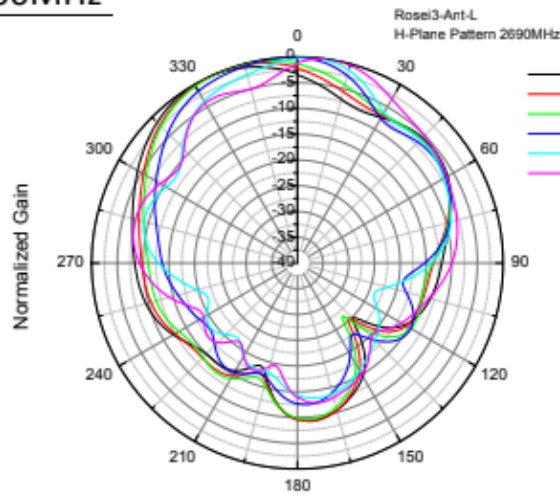
1710MHz



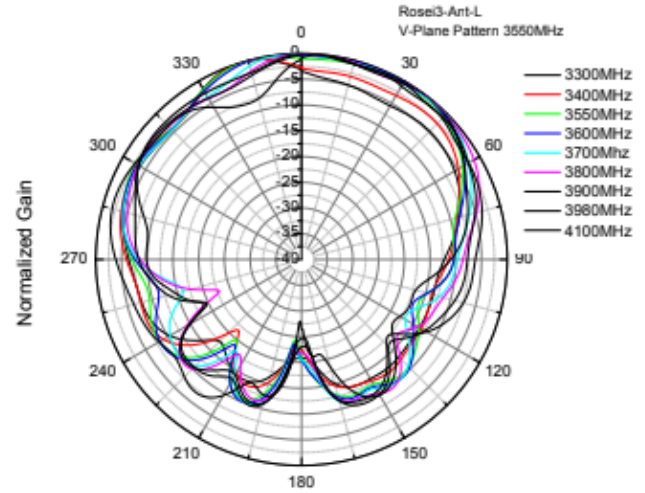
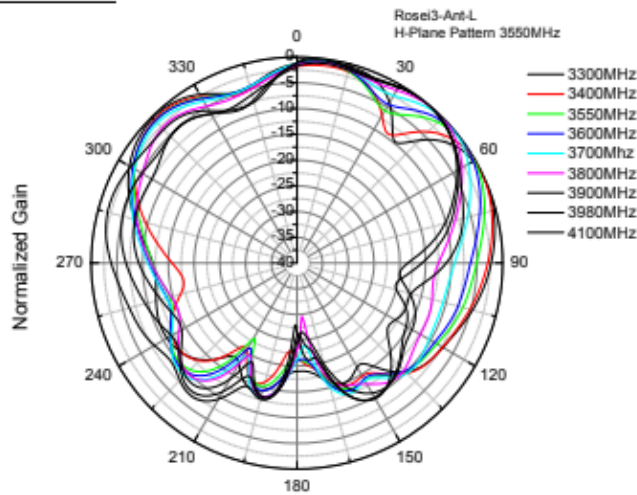
H-Plane

V-Plane

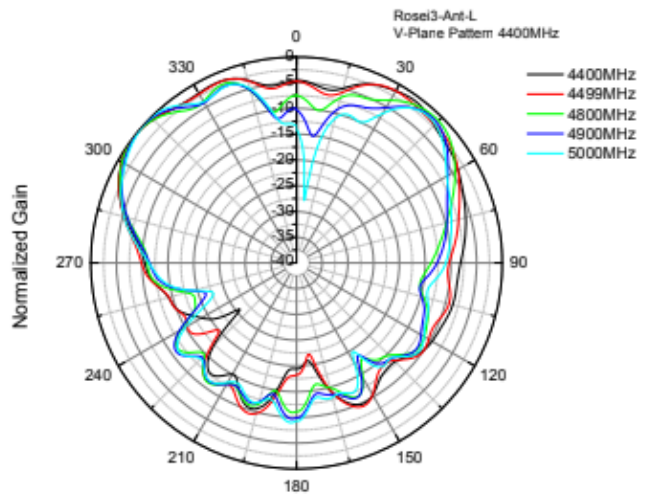
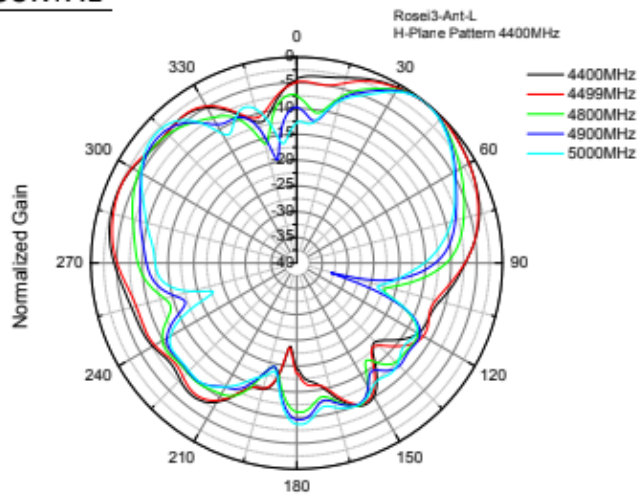
2700MHz



3700MHz

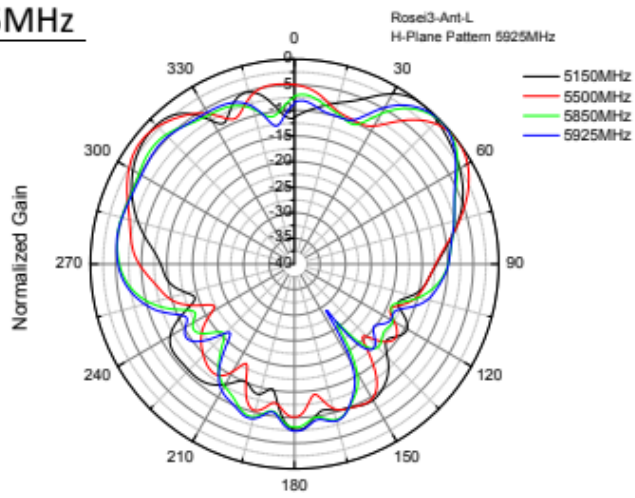


4400MHz

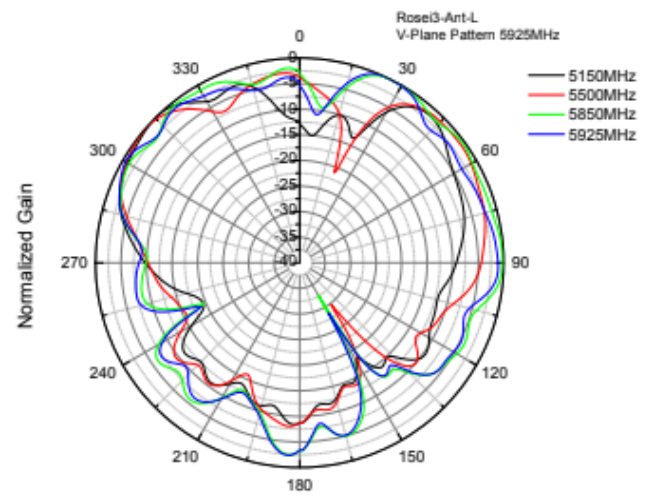


H-Plane

5925MHz



V-Plane



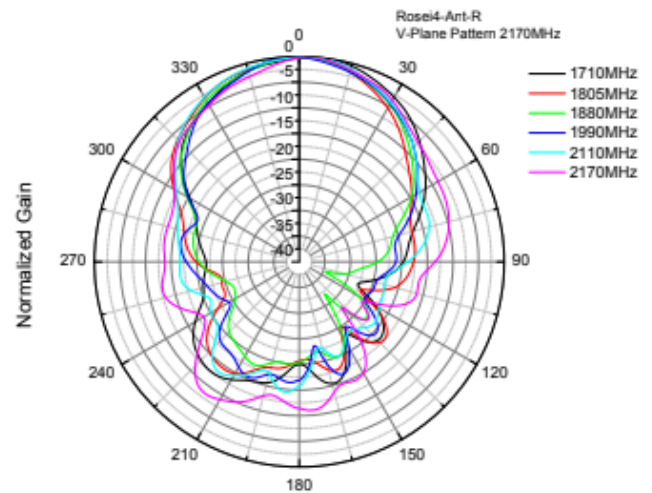
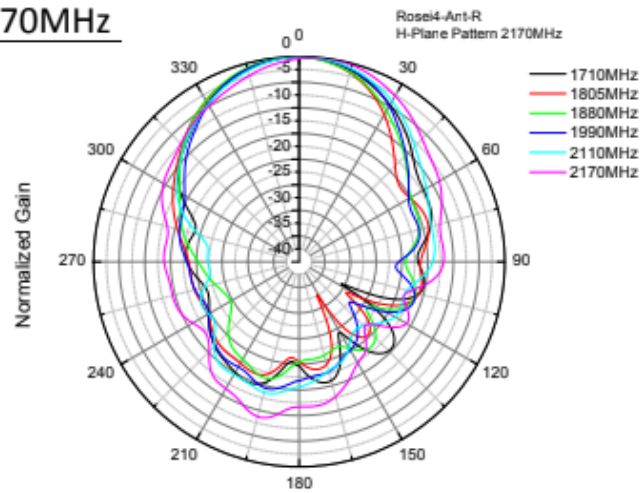
P/N: MA-ANT-C1-B4

Radiation Pattern +45°-port(Right)

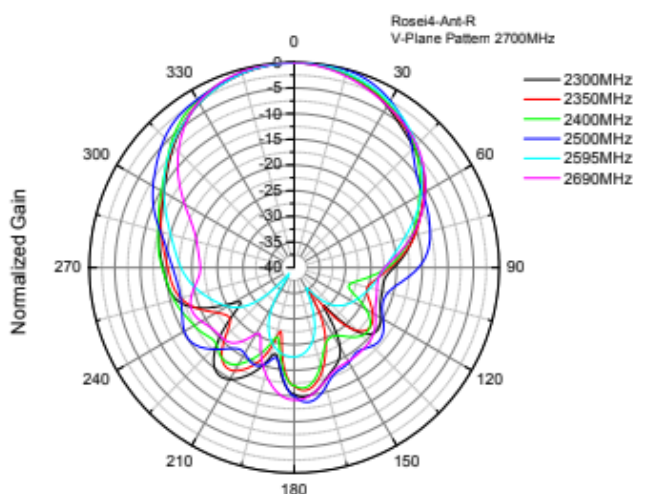
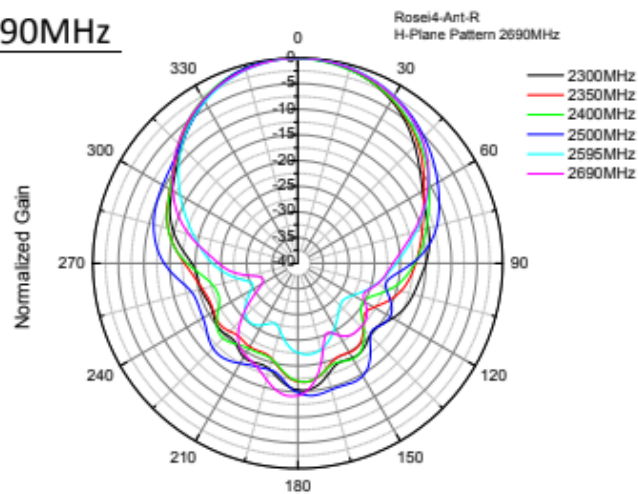
H-plane

V-plane

2170MHz

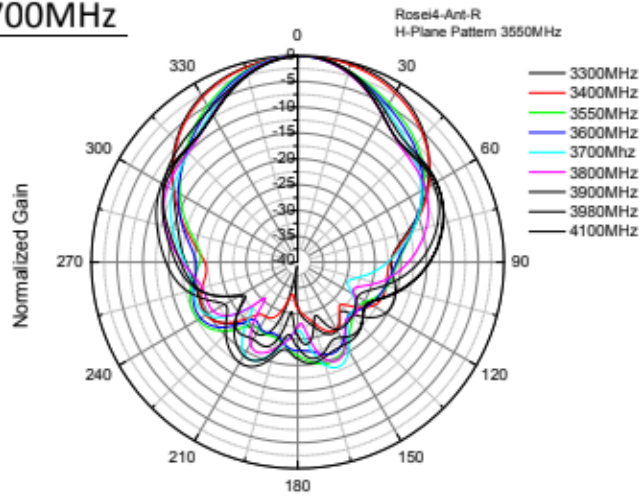


2690MHz

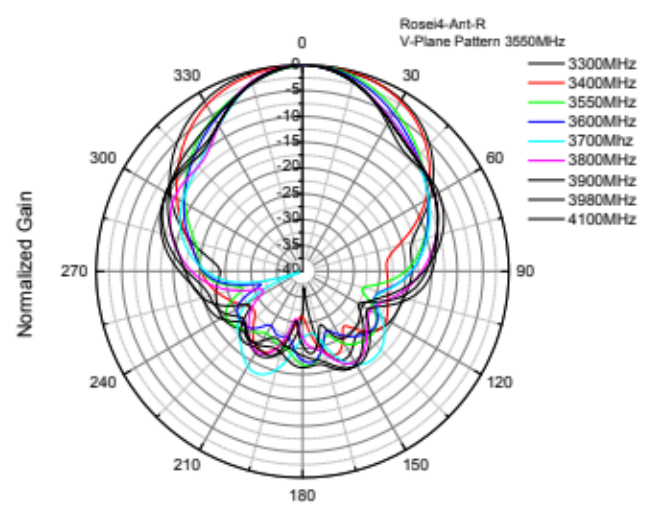


H-plane

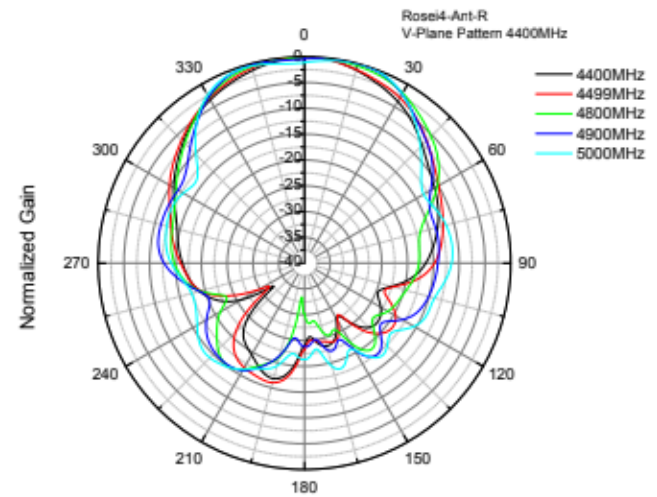
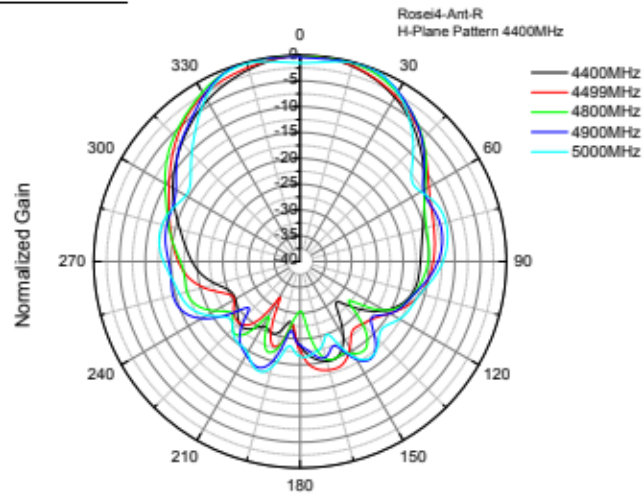
3700MHz



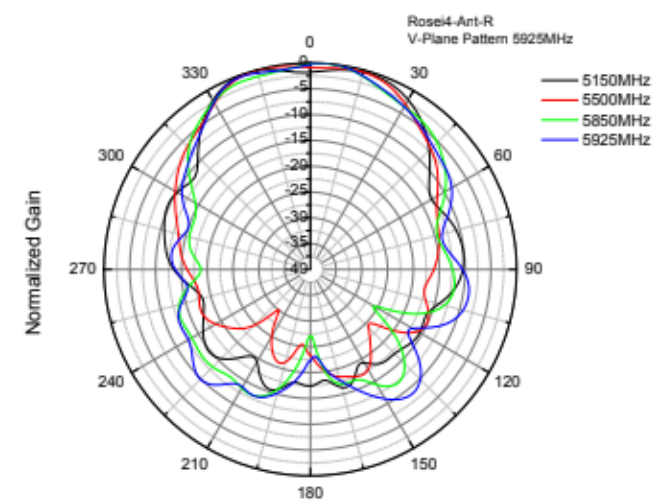
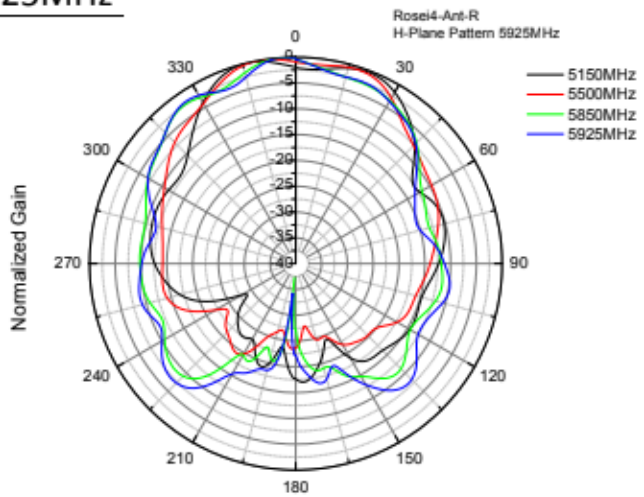
V-plane



4400MHz

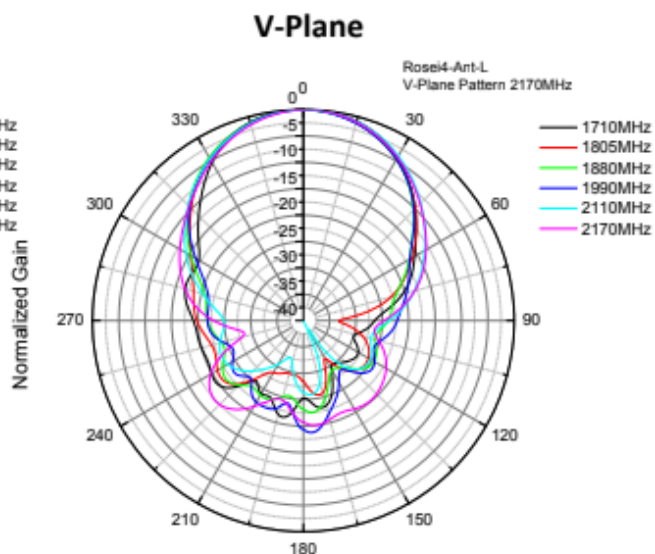
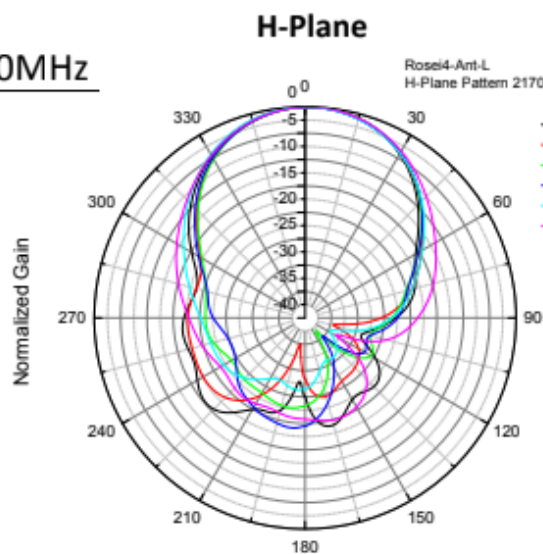


5925MHz

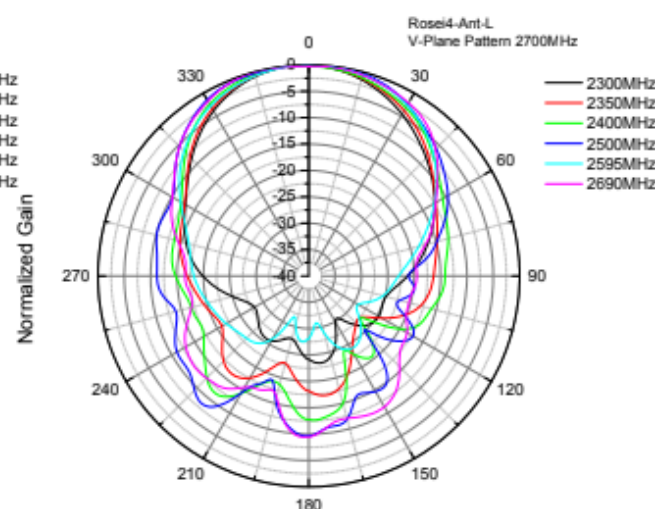
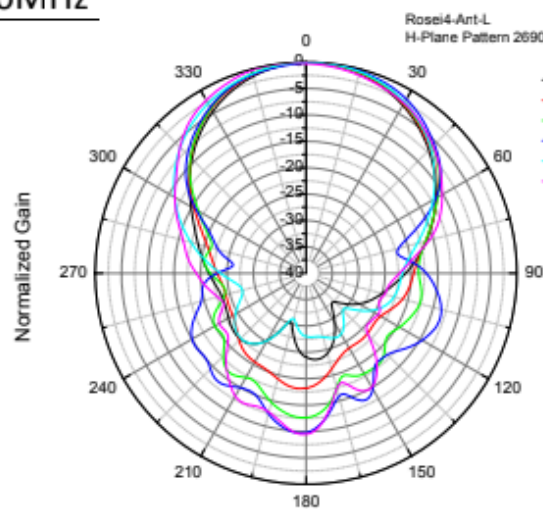


Radiation Pattern -45°-port(Right)

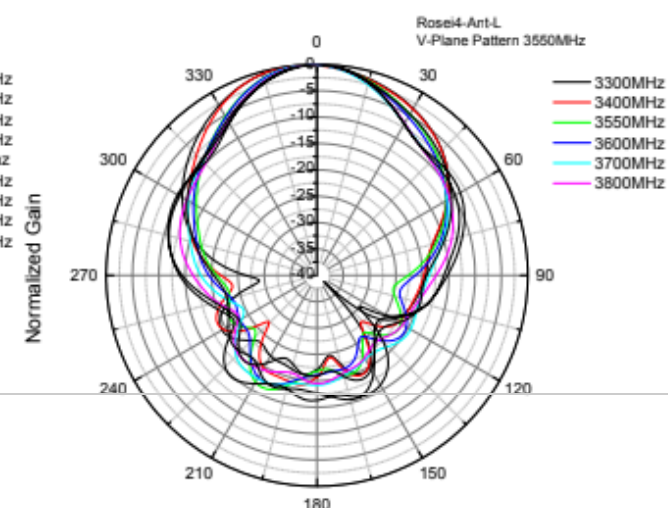
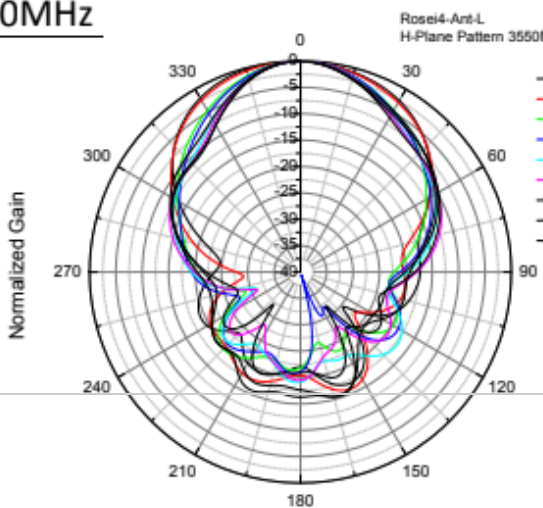
2170MHz



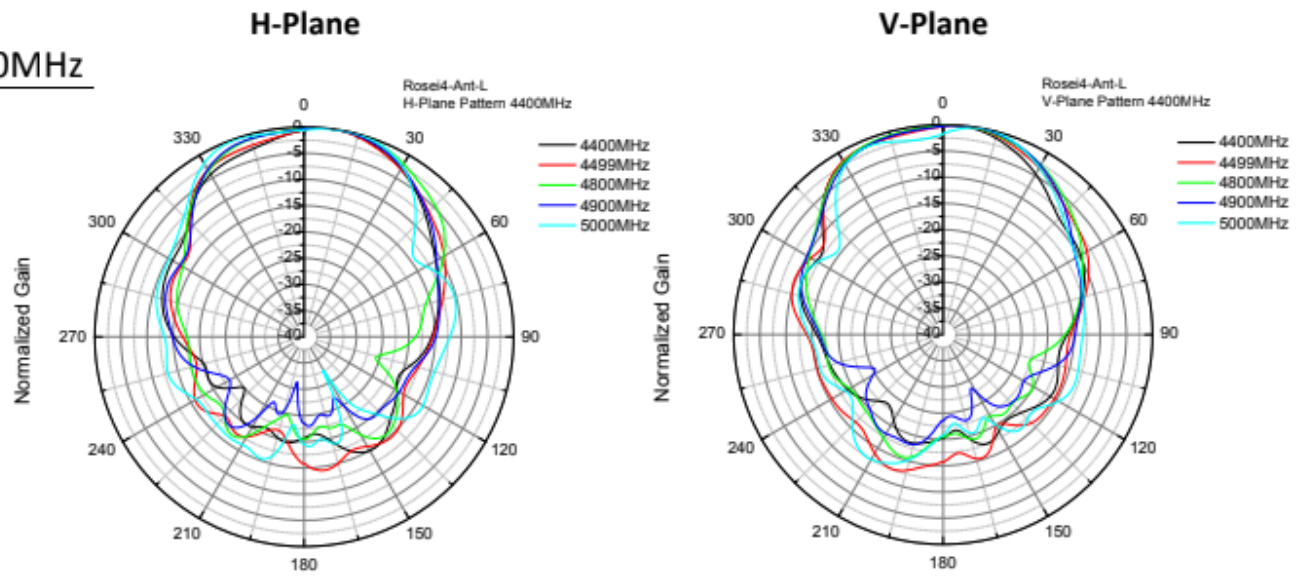
2690MHz



3700MHz



4400MHz



5925MHz

