

LTE/5G wideband External RIGHT-ANGLE Whip Antenna

AEMF1005X-H

Features

- Supports 617 MHz to 6000 MHz
- High efficiency up to 70%
- High peak gain up to 5.1 dBi
- Swivel connector design for straight, right-angle and 45 degree positioning
- SMA plug (male pin) or RP-SMA plug (female socket) connector

Applications

- Internet of Things (IoT) devices
- LTE-M, Cat M, Cat M1, NB-IoT
- LTE CAT 1 up to CAT 20 supported
- CBRS and 5G bands supported
- Smart Home networking
- Networking & Telecommunication

Product Image



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Electrical Specification

Parameter	Specification				Unit
Operating Frequency	617-960	1400-2700	3300-4400	4400-6000	MHz
VSWR (Typ.)	< 2.0				
Peak Gain	0.1	3.6	5.1	4.8	dBi
Efficiency (Maximum)	43	64	70	61	%
Impedance	50				Ω
Polarization	Linear				
Radiation Pattern (Azimuth)	Omni-directional				
Input Power (Ambient 25°C)	5				W

Mechanical Specification

Parameter	Specification
Dimensions	173 x 18 mm
Material	ABS
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Dipole)
RF Connector	SMA(M)

(1): UV Resistant optional

Environmental Specification

Parameter	Specification
Operating Temperature	-20°C to +70°C
Storage Temperature	-20°C to +70°C
IP Rating	Optional
RoHS Complaint	Yes

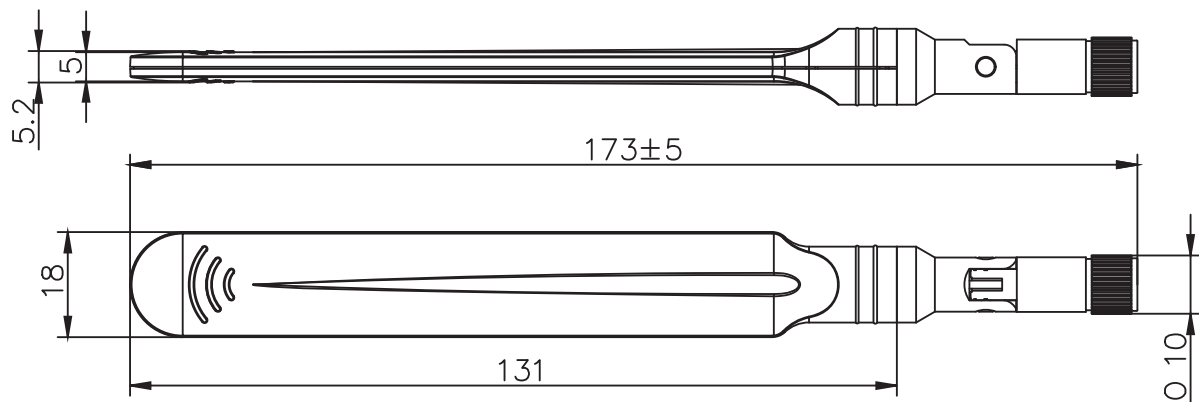
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Ordering Information

Part Number	Description	Connector Option
AEMF1005X-H	LTE/5G wideband External RIGHT-ANGLE Whip Antenna with SMA(M) connector	SMA(M)
AEMF1005X-R	LTE/5G wideband External RIGHT-ANGLE Whip Antenna with RP-SMA(M) connector	RP-SMA(M)

Product Dimensions

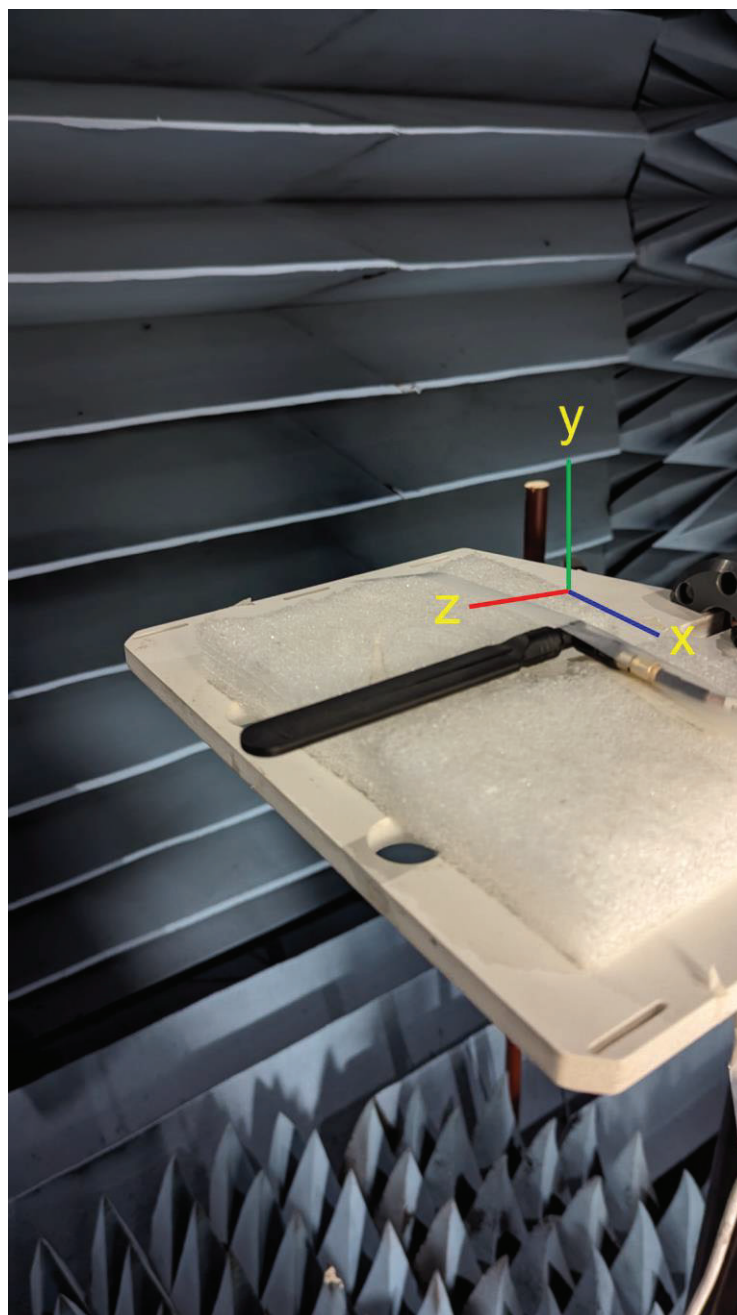


Unit : mm

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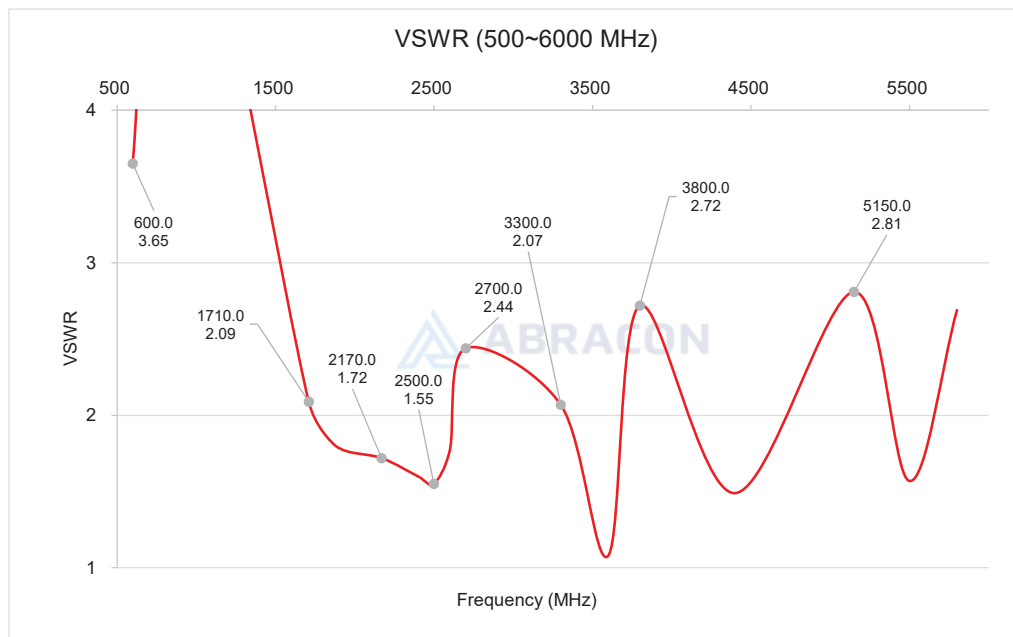
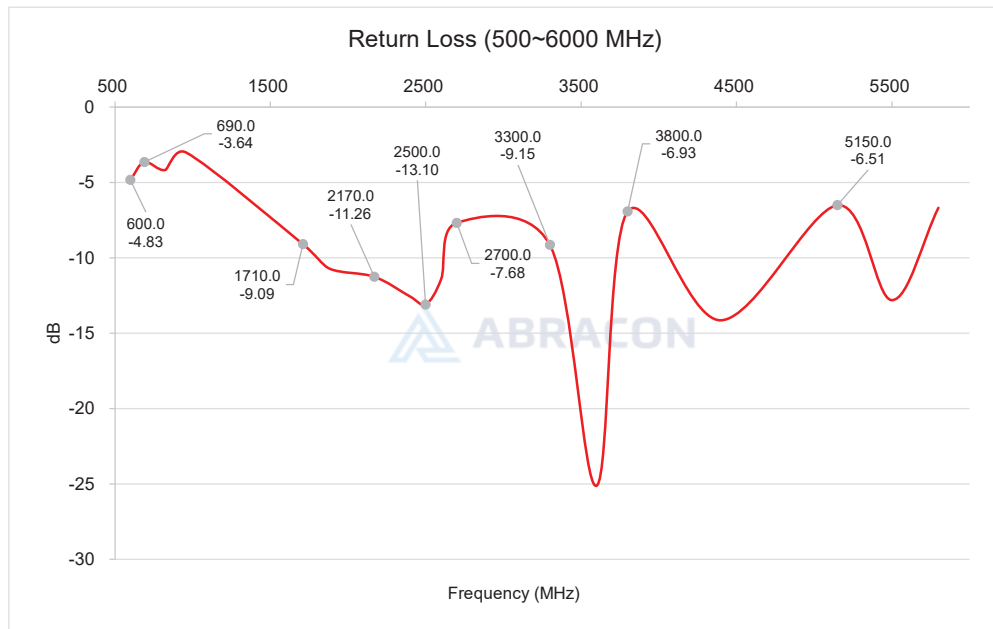
Measurement Setup



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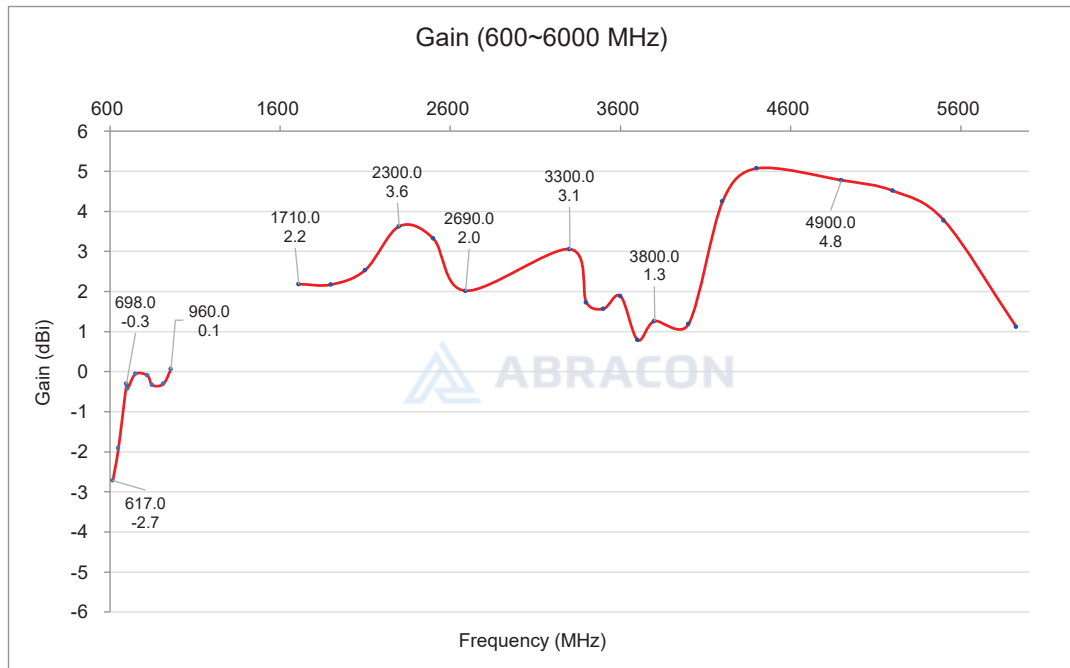
Reflection Characteristics – Return Loss & VSWR



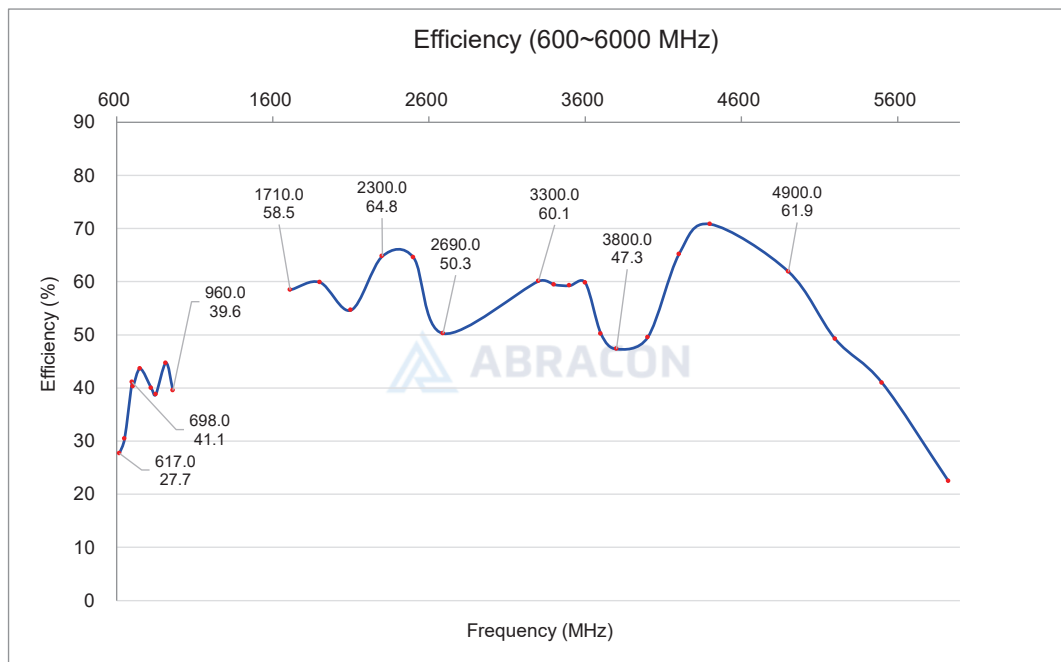
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Radiation Characteristics – Peak Gain



Radiation Characteristics – Total Efficiency (%)

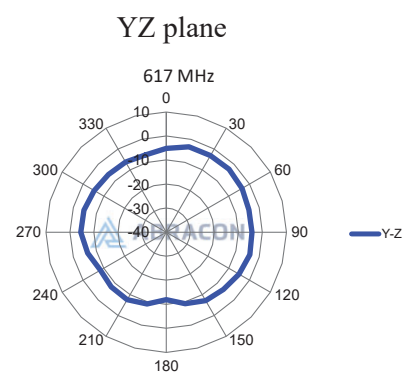
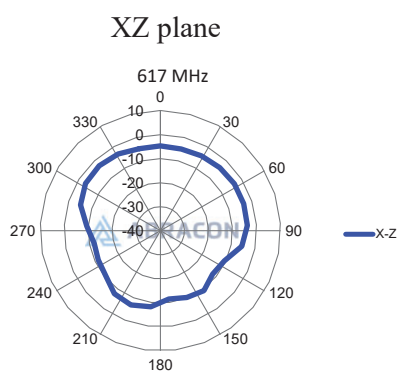
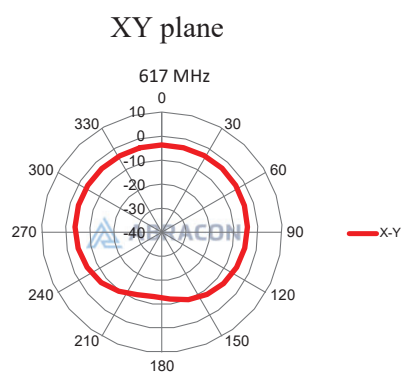
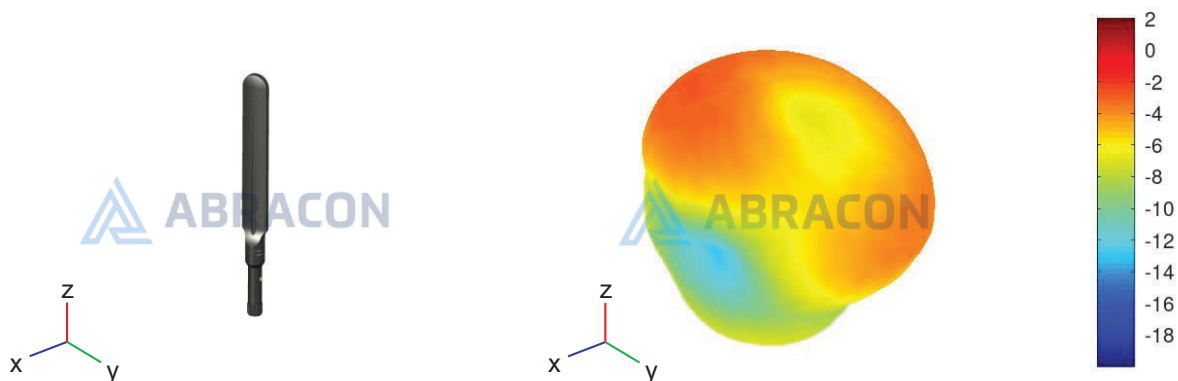


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Radiation Characteristics – 3D & 2D Pattern

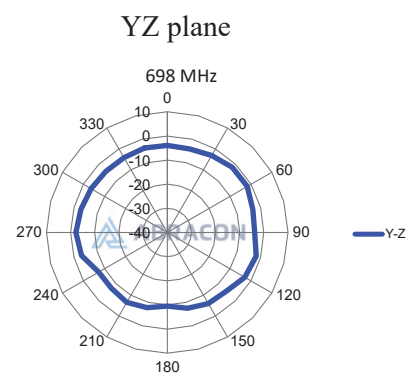
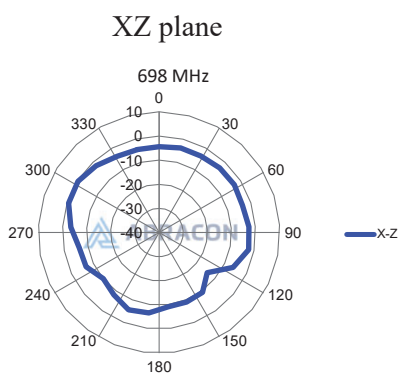
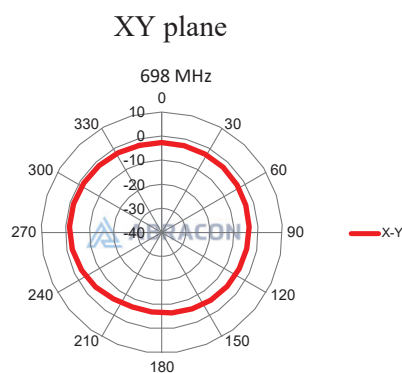
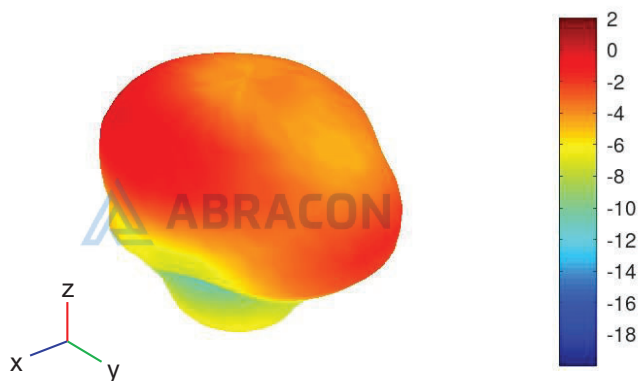
617MHz



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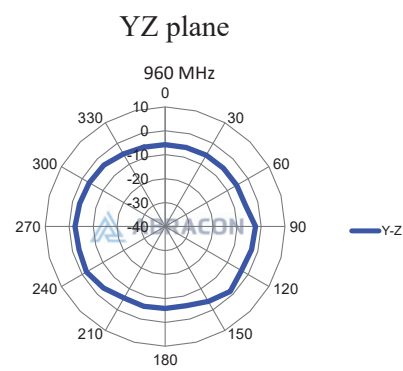
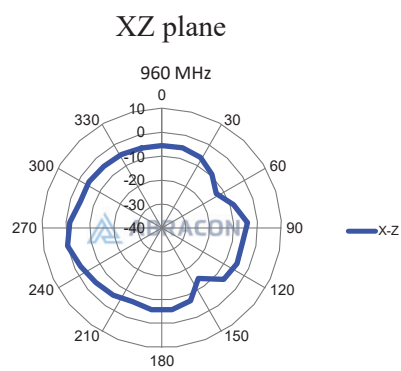
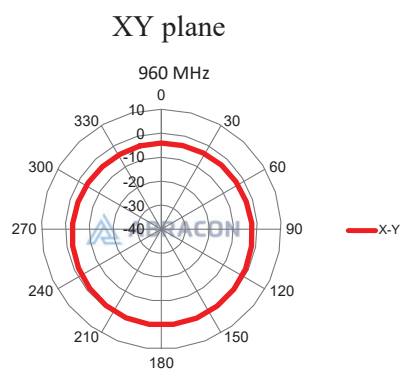
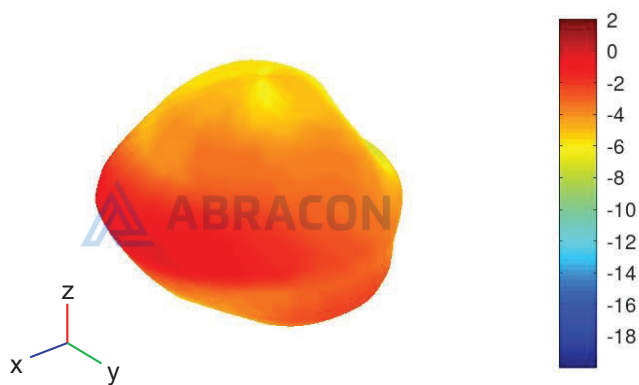
698MHz



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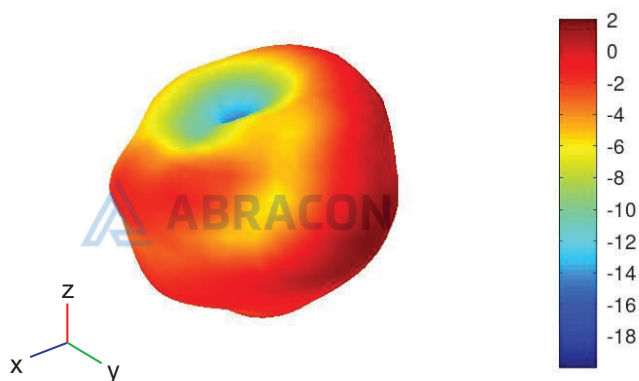
960MHz



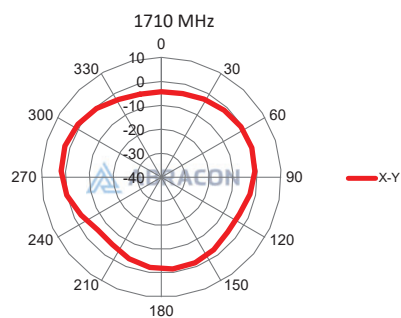
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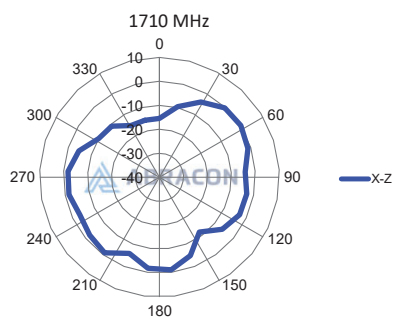
1710MHz



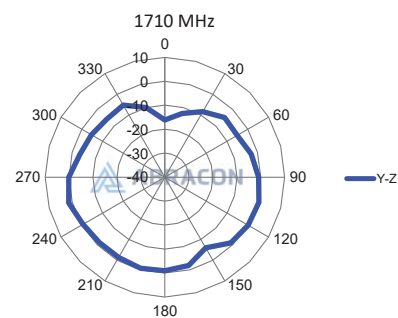
XY plane



XZ plane



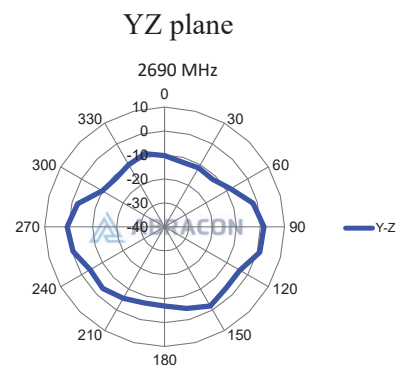
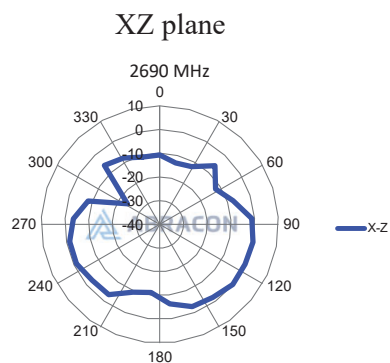
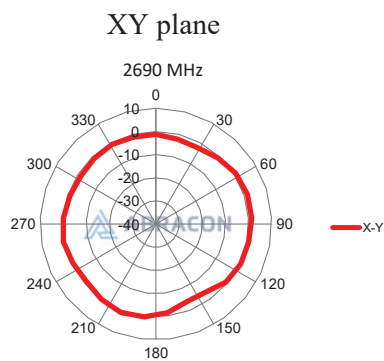
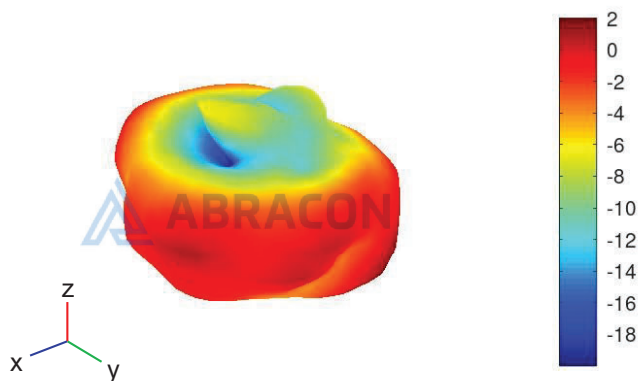
YZ plane



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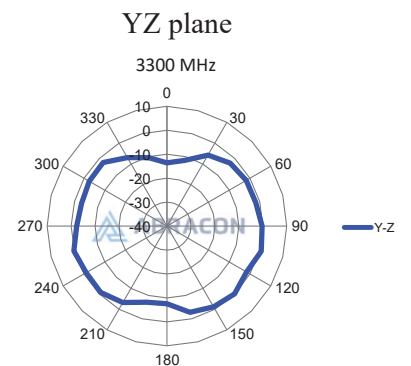
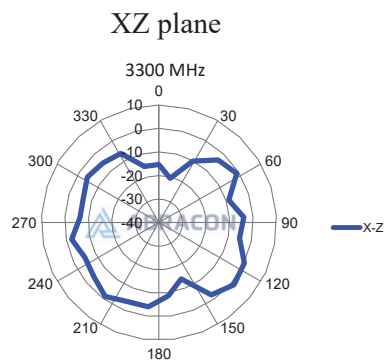
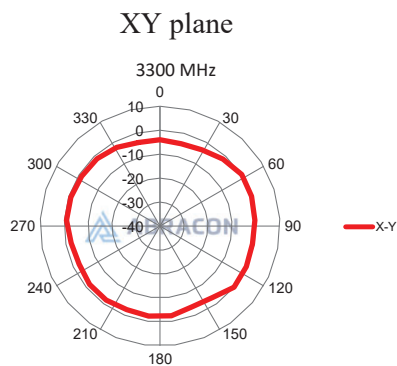
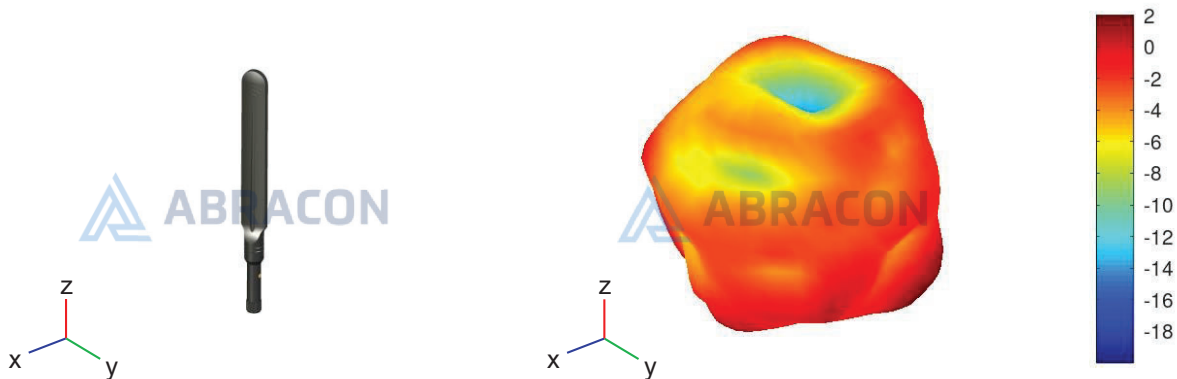
2690MHz



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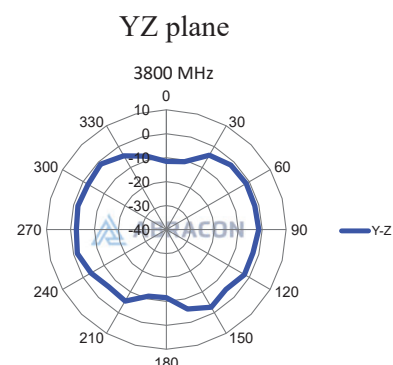
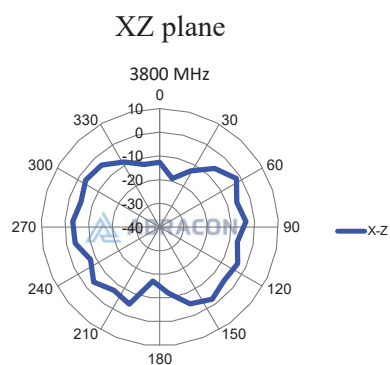
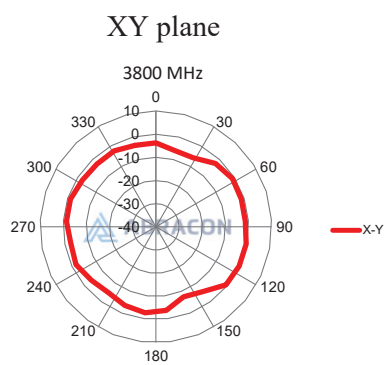
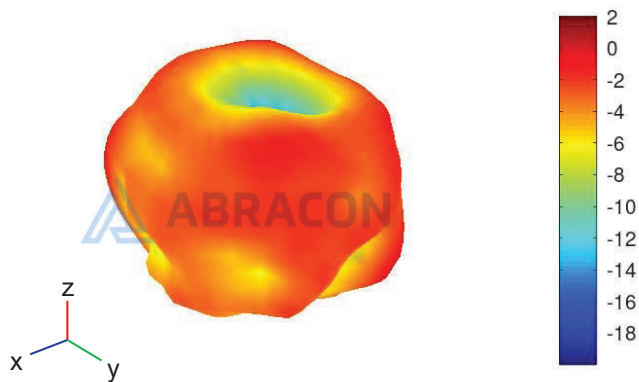
3300MHz



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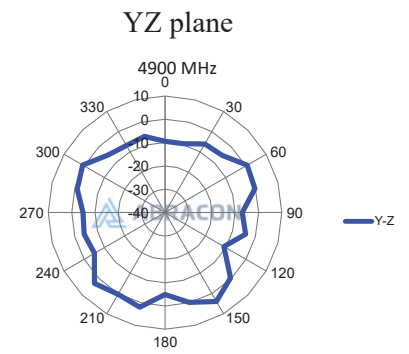
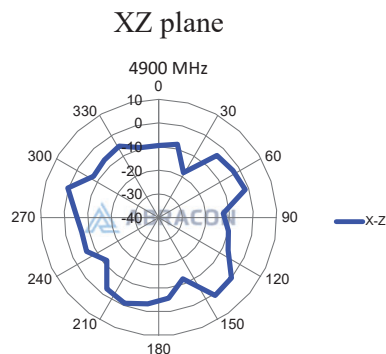
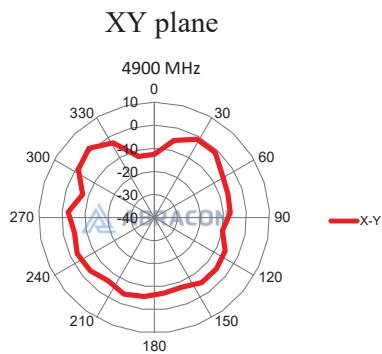
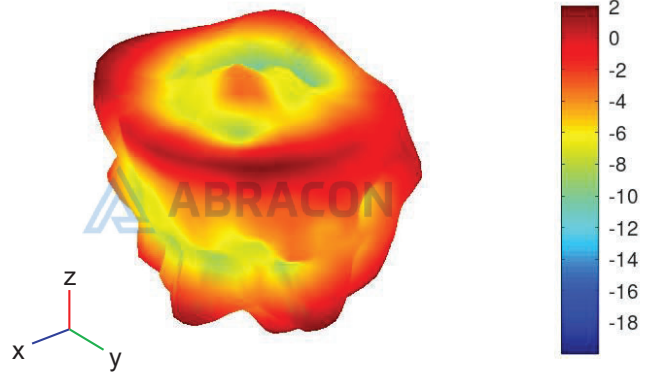
3800MHz



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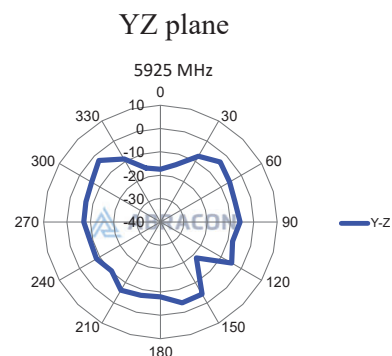
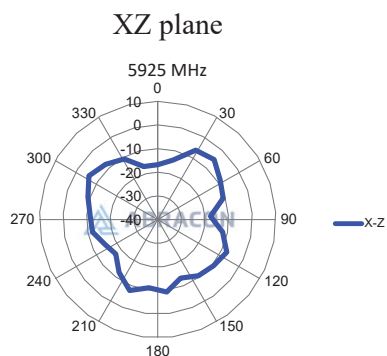
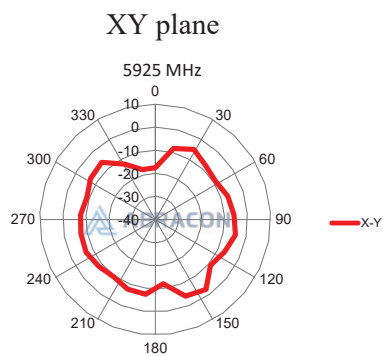
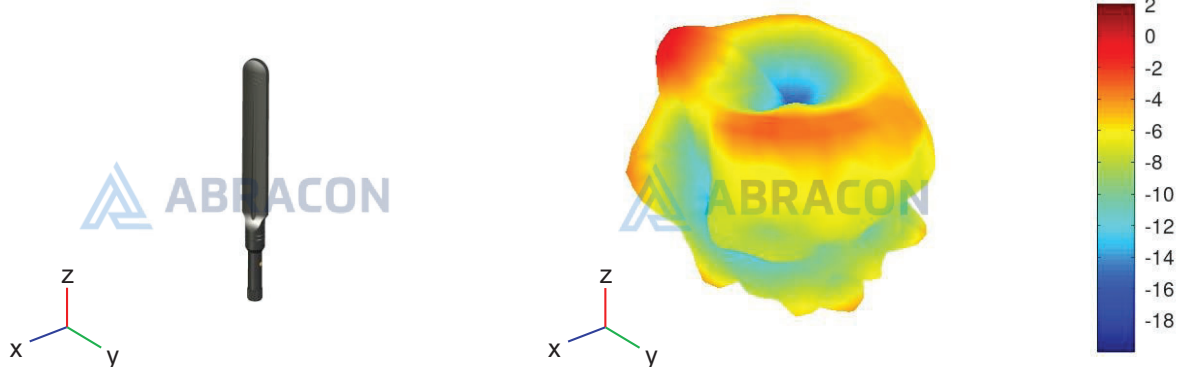
4900MHz



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5925MHz



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Packaging

Number of antennas / PE bag: 50 pcs

Number of PE bags / carton: 10 bags

Total antennas / carton: 500pcs

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5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
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