

915MHz & 2.4GHz External Whip Antenna



AANE-WH-0223

Request Samples



Check Inventory



Ø13 x 195 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- 915 MHz and 2.4GHz Dual Band Antenna
- High Peak Gain 1.9dBi / 4.0dBi
- High Efficiency up to 79%
- Swivel Connector Design for Straight, Right-Angle and 45-Degree Positioning
- Weather-Proof and IP65 Rated
- Fully Customizable Connectors

Applications

- LPWA/LoRa/SigFox Applications
- Bluetooth/BLE/Matter/Thread
- Intelligent Lighting
- Smart Metering Solutions
- Smart Irrigation Systems
- Home Automation and Fire Prevention
- Agriculture/Environment Sensing

Product Image



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Cave, TX 78738
Phone: 512-371-6159 | Fax: 512-351-8858
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Electrical Specification

Parameter	Specification		Unit
Operating Frequency	902-928	2400-2500	MHz
VSWR(Typ.)	2.0		
Peak Gain	1.9	4.0	dBi
Maximum Efficiency	79	79	%
Average Efficiency	78	73	%
Impedance	50		Ω
Polarization	Linear		
Radiation Pattern (Azimuth)	Omni-directional		
Max Power (Ambient 25°C)	5		W

Please note: All measurement data is based on the standard configuration (conducted in free space unless otherwise specified).

Mechanical Specification

Parameter	Specification
Dimensions	Ø13 x 195 mm
Material	UV Resistant TPEE+ABS (Optional)
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Dipole)
RF Connector ⁽¹⁾	SMA(M)

(1): Fully Customizable RF Connectors

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating	IP65 (Optional)
RoHS Complaint	Yes



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Ordering Information

Part Number	Description	Connector Option
AANE-WH-0223-1	915MHz & 2.4GHz External Whip Antenna with SMA(M) connector, IP65 & UV-Resistant Housing	SMA(M)
AANE-WH-0223-2	915MHz & 2.4GHz External Whip Antenna with RP-SMA(M) connector, IP65 & UV-Resistant Housing	RP-SMA(M)
AANE-WH-0223-3	915MHz & 2.4GHz External Whip Antenna with SMA(M) connector	SMA(M)
AANE-WH-0223-4	915MHz & 2.4GHz External Whip Antenna with RP-SMA(M) connector	RP-SMA(M)

Note: Different connector configurations that are not listed may be available upon request via [Abracon online support](#)



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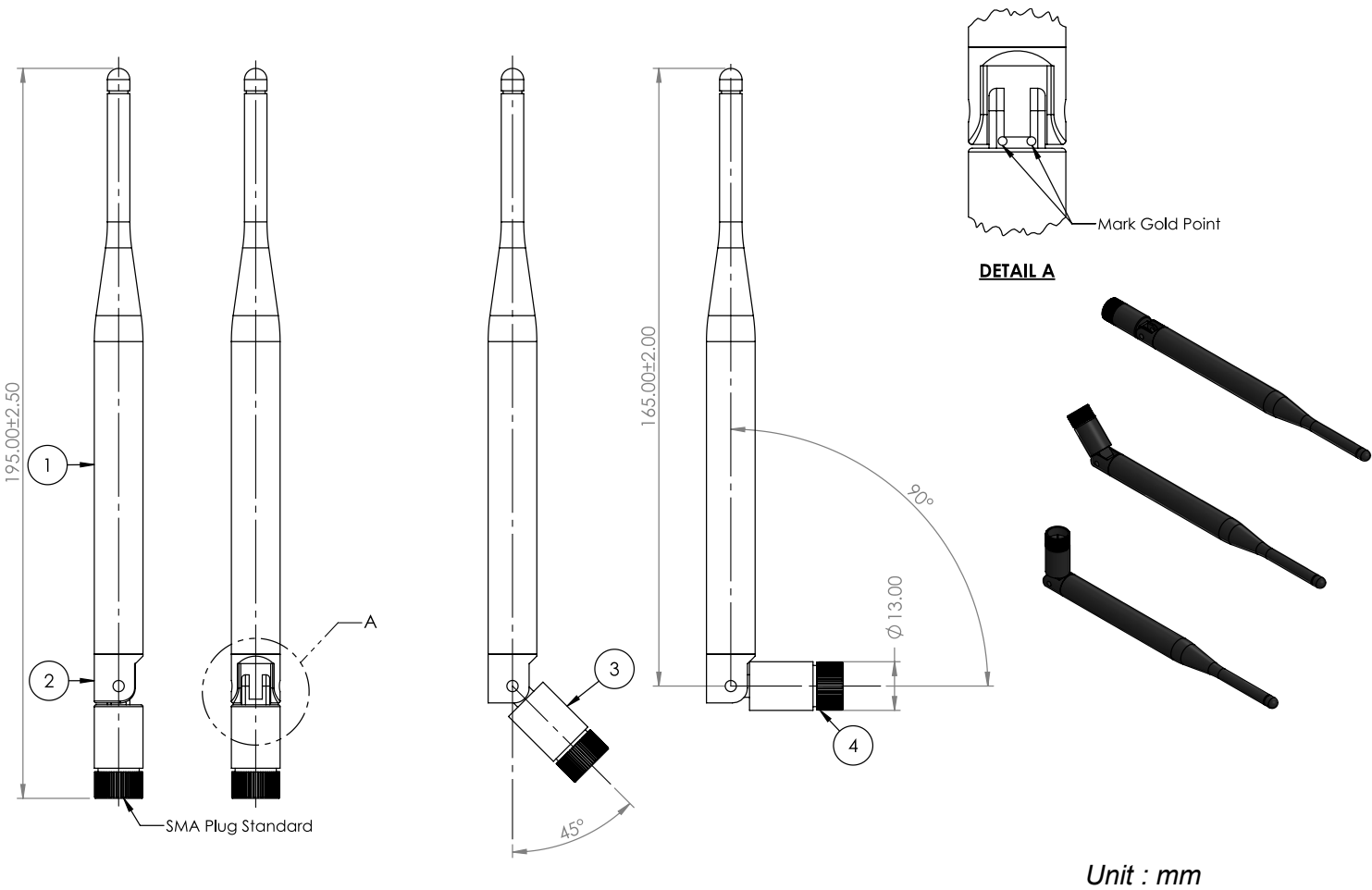


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Product Dimensions



	Name	Material	Finish	QTY
1	Antenna Housing	TPEE	Black	1
2	Hinge	ABS	Black	1
3	Housing	ABS	Black	1
4	RF Connector	Copper	Black	1

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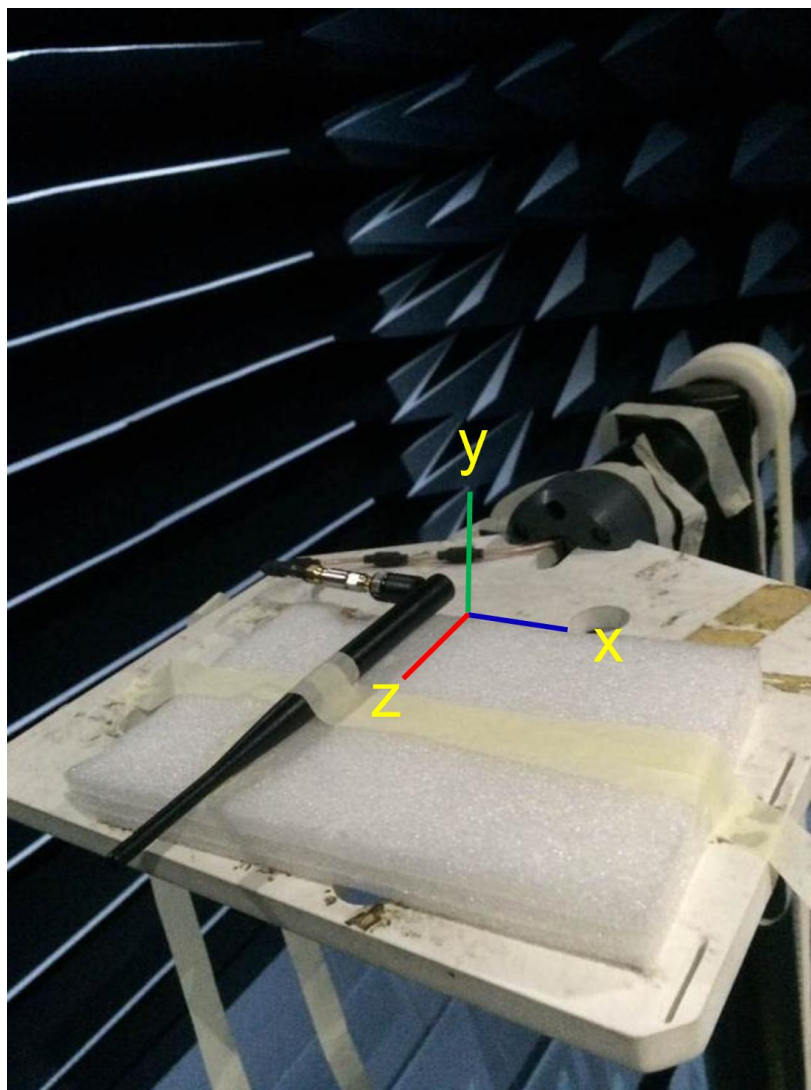


Ø13 x 195 mm

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MSL Level = N/A

Measurement Setup (Free Space)



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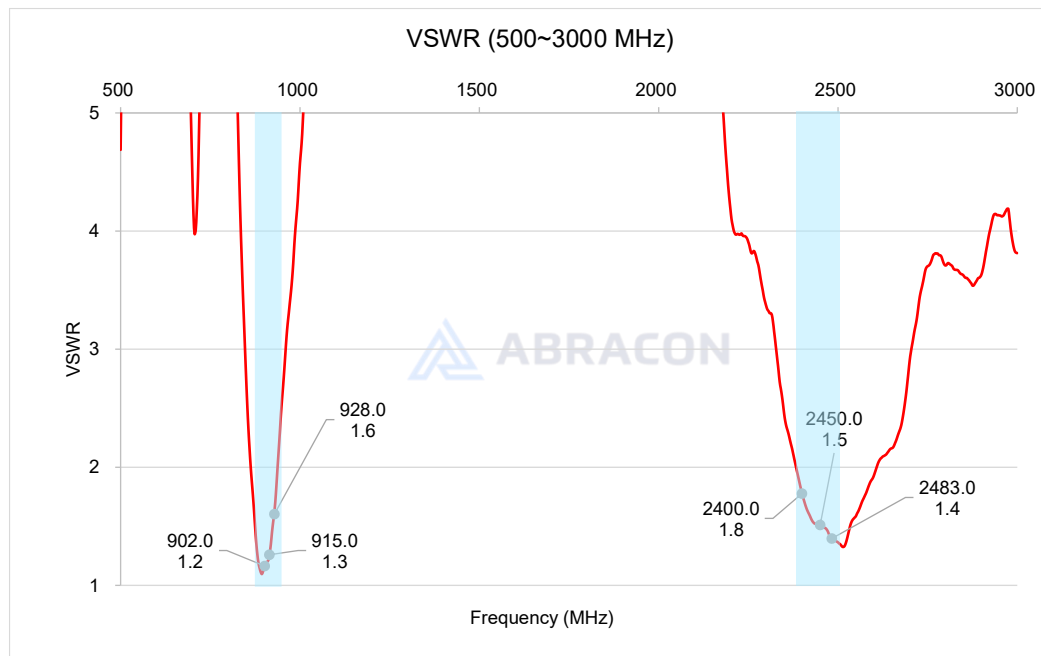
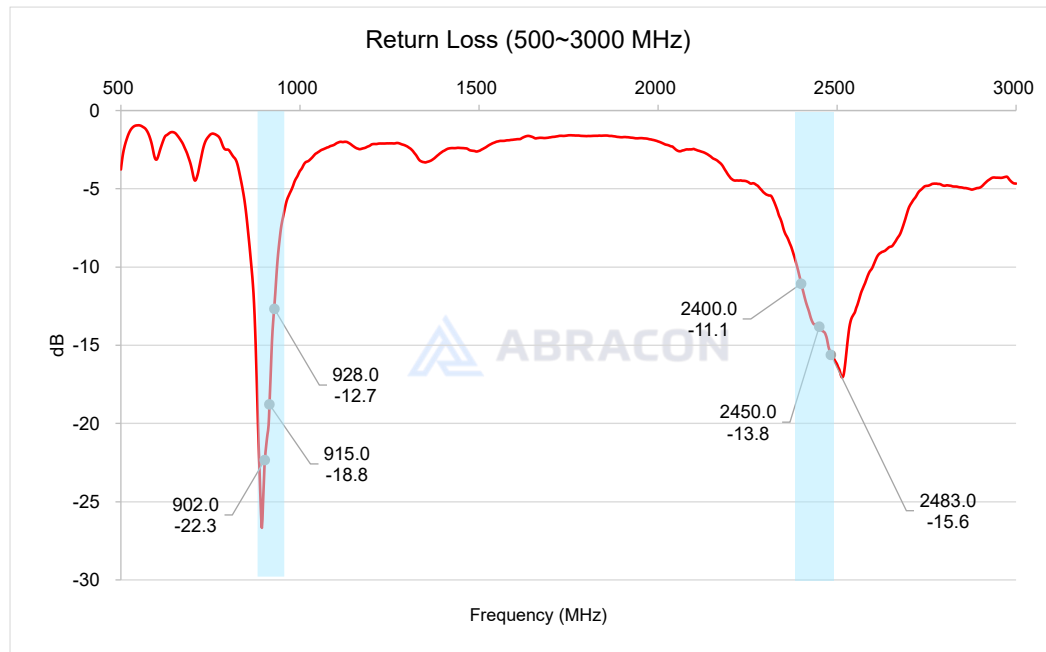


Ø13 x 195 mm

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Reflection Characteristics – Return Loss & VSWR



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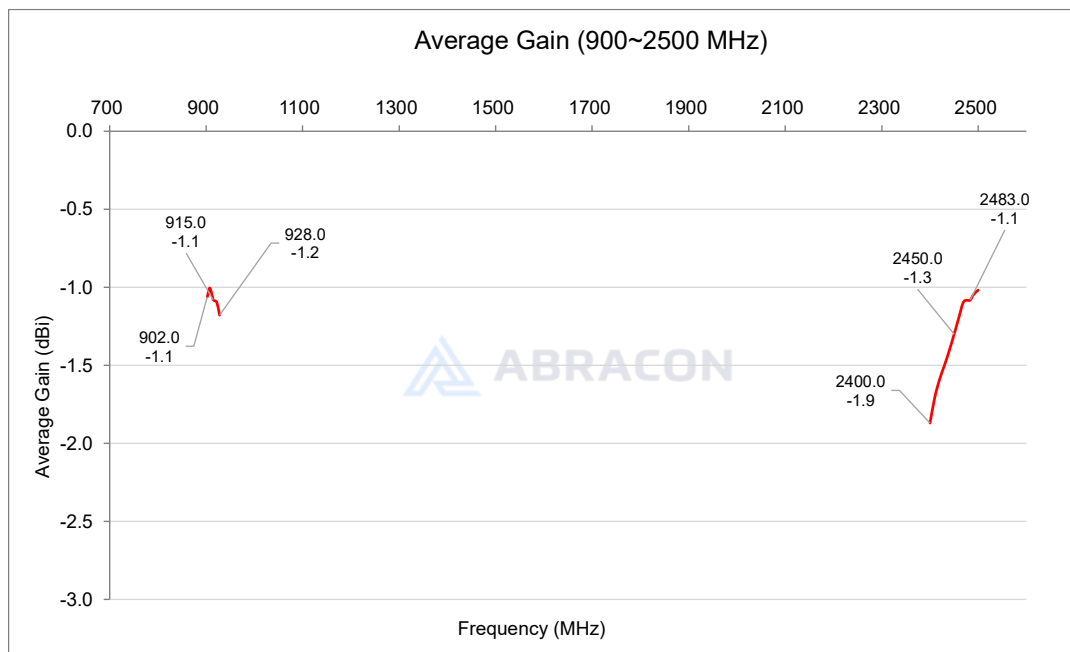
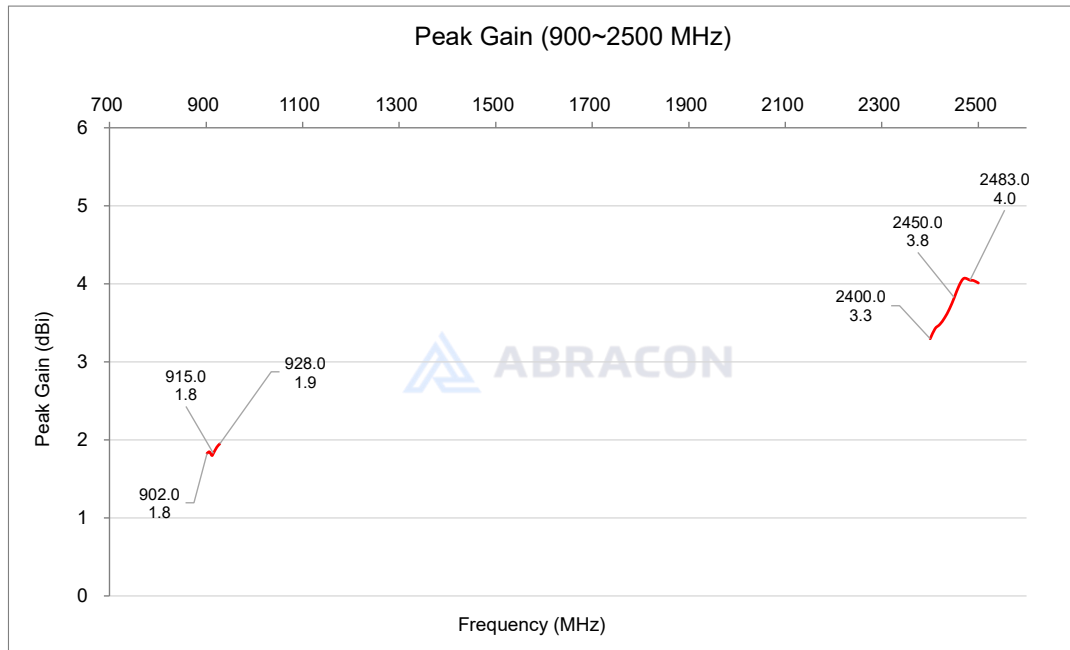


Ø13 x 195 mm

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Radiation Characteristics – Peak Gain & Average Gain



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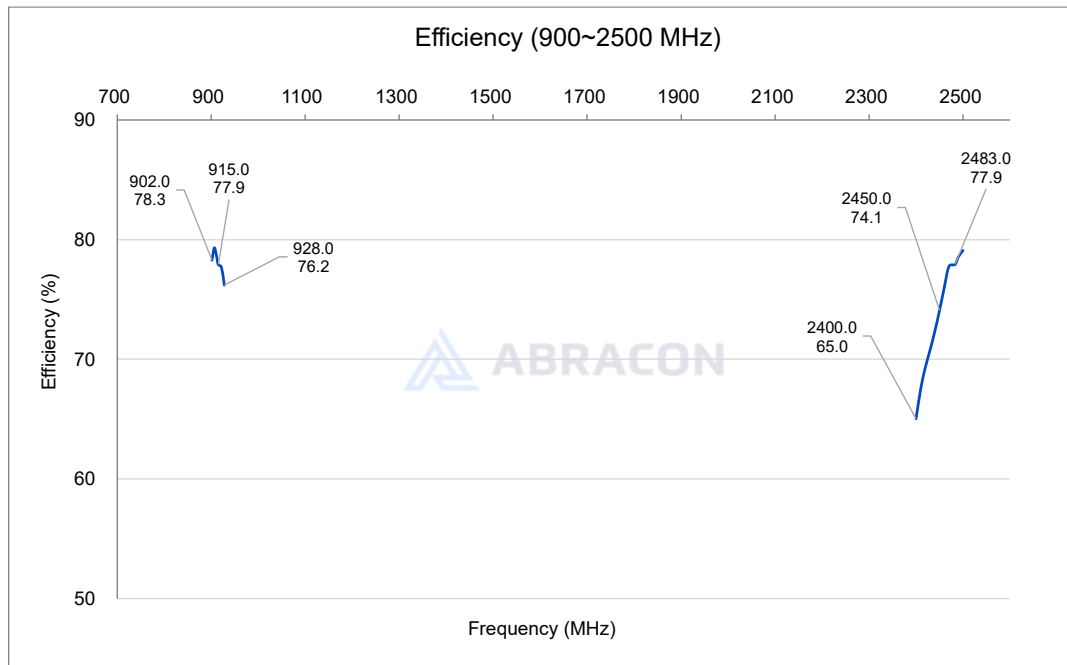


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Radiation Characteristics – Total Efficiency (%)



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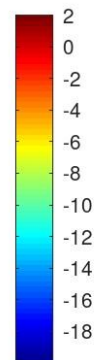
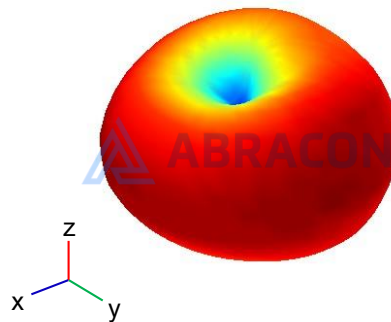
Ø13 x 195 mm

RoHS/RoHS II Compliant

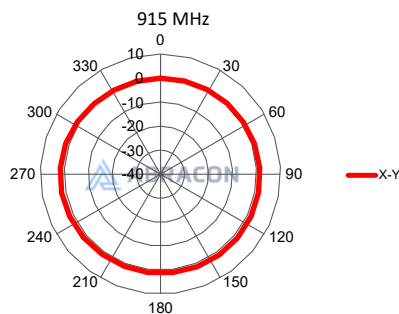
MSL Level = N/A

Radiation Characteristics – 3D & 2D Pattern (Free Space)

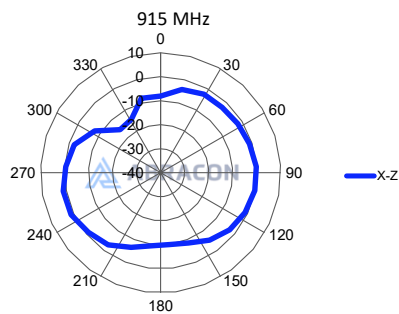
915MHz



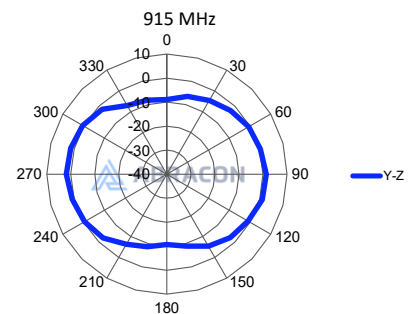
XY plane



XZ plane



YZ plane



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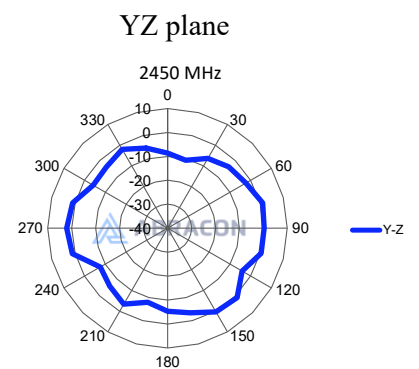
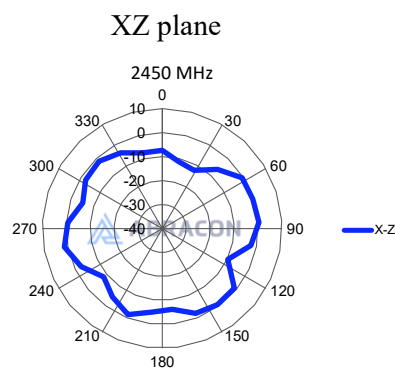
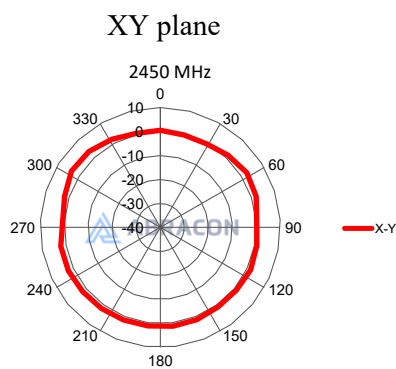
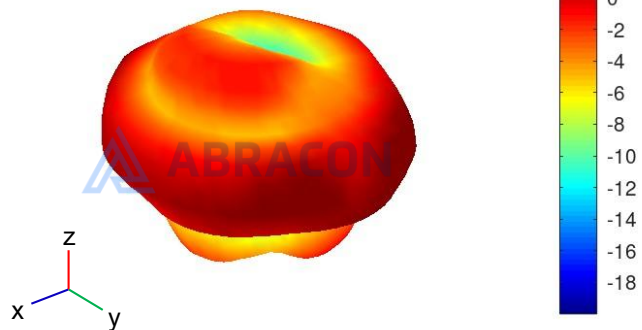


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2450MHz



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