

RFA-150-020: SMA ANTENNA WITH ELBOW, WIFI 6, ADDITIONAL SNAP 45°

## Material and plating:

1. RP SMA Plug: Brass, Nickel plating
2. Bottom Base: PC+PBT, Black
3. Rivet: POM, Black
4. Upper Base: PC+PBT, Black
5. Cap: TPEE, Black

## Electrical

## Frequency Range:

2.4GHz~2.48Ghz,  
5.15GHz~5.825Ghz,  
5.935GHz~7.125Ghz.

Impedance: 50Ω

VSWR: 2.5 max.

Radiation: Omni

Gain: 3.83dBi +/-0.5

Polarization: Vertical

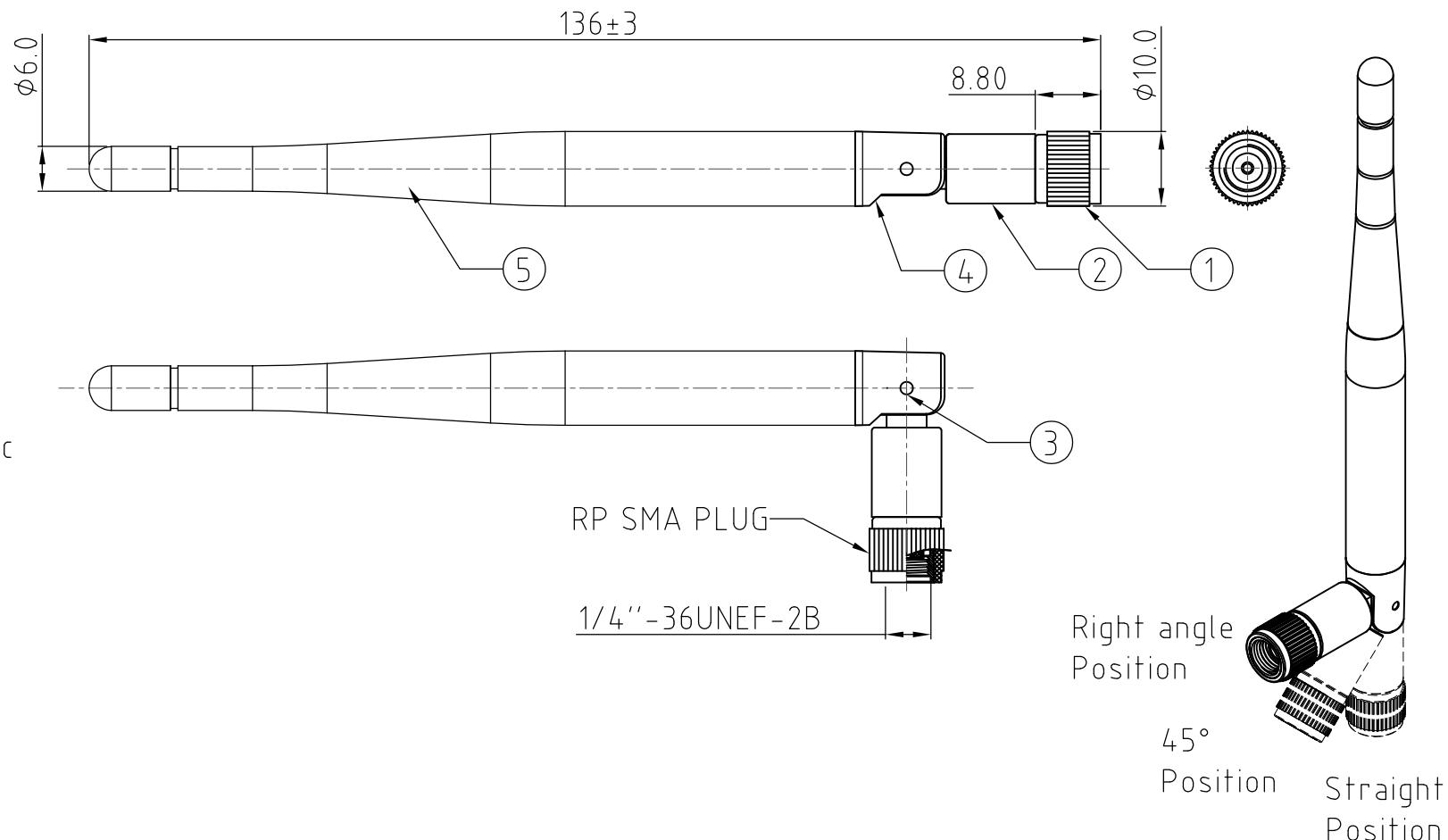
Maximum Power: 1W

## Mechanical &amp; Environment

Operating Temperature: -20°C to +65°C

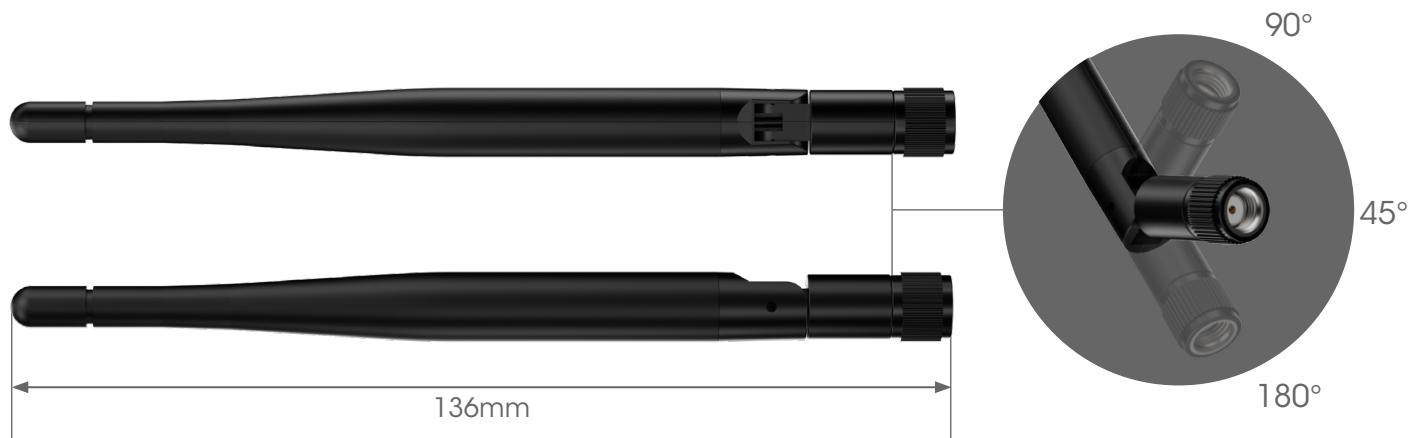
Weight: 10.4g

Lead free ROHS



# RFA-150-020 Antenna

RF Antenna Stick | Tri Band | SMA Plug interface



## Electrical Specifications

Description	Specification
Frequency Range/s	2400-2480MHz, 5150-5825MHz, 5935-7125MHz
Antenna Type	Stick Antenna
Number of Bands	5
Radiation Pattern	Omnidirectional
Polarization	Linear
Max. Input Power	1 Watt
Impedance	50Ω

Frequency	Return Loss	Peak Gain	Average Efficiency
2400-2480MHz	< -24.0 dB	4.0 dBi	67%
5150-5825MHz	< -9.5 dB	5.2 dBi	43%
5935-7125MHz	< -9.5 dB	7.0 dBi	51%

## Mechanical Specifications

Description	Specification
Length	136 ± 3mm
Swivel Elbow	180°, 90°, 45°
Weight	12g
Termination	RP-SMA
Radome Material	PC+PBT
Operating Temperature	-20°C to 65°C
Compliance	RoHS

## Applications

**Wireless Communication:** Wi-Fi 4/5/6/6E/7 (2.4/5/6GHz)

**Short-range Protocols:** Bluetooth, Zigbee, Thread

**Consumer Electronics:** Smart TVs, streaming devices, mesh routers

**IoT & Smart Devices:** Gateways, sensors, smart home products.

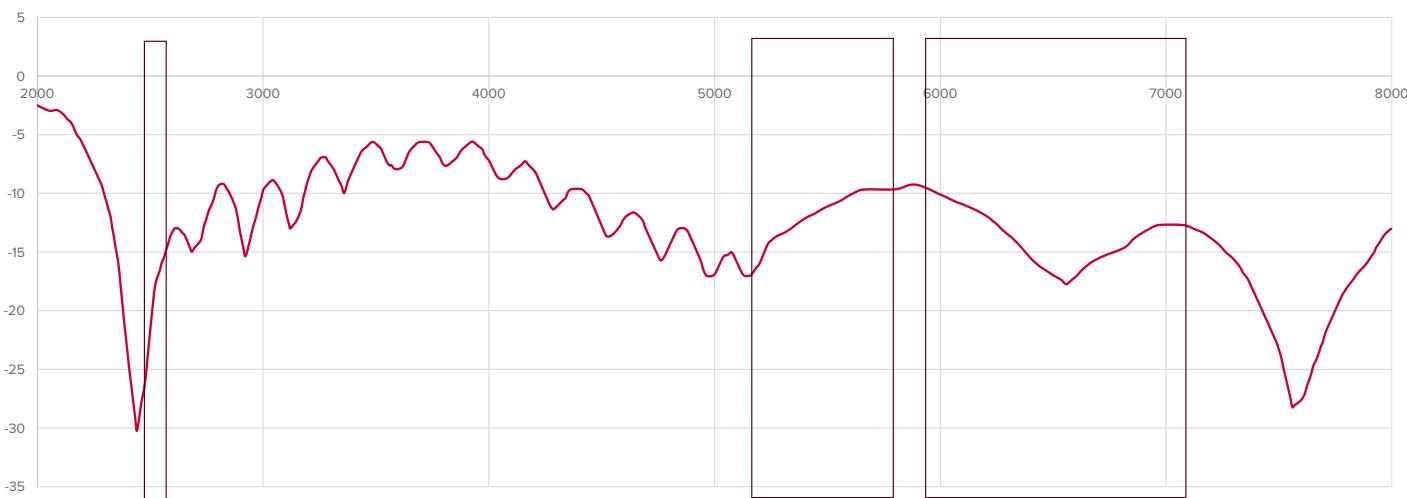
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## Performance

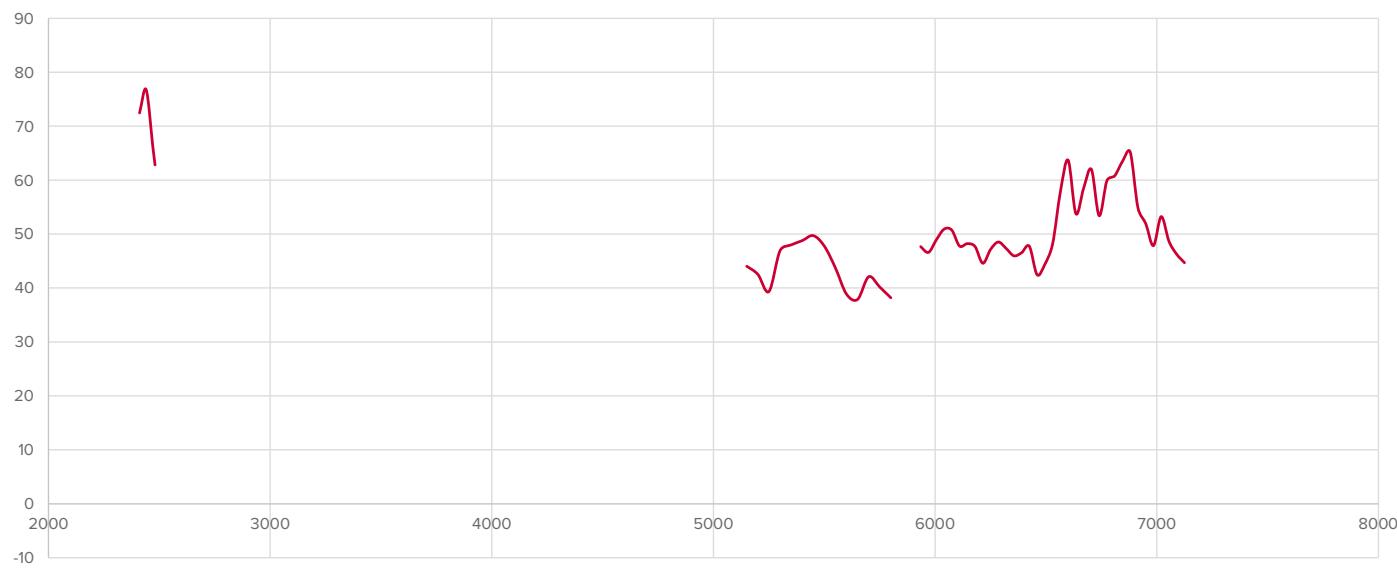
The test setup and measurements were conducted in a 3D anechoic chamber



## Return Loss (dB) Chart



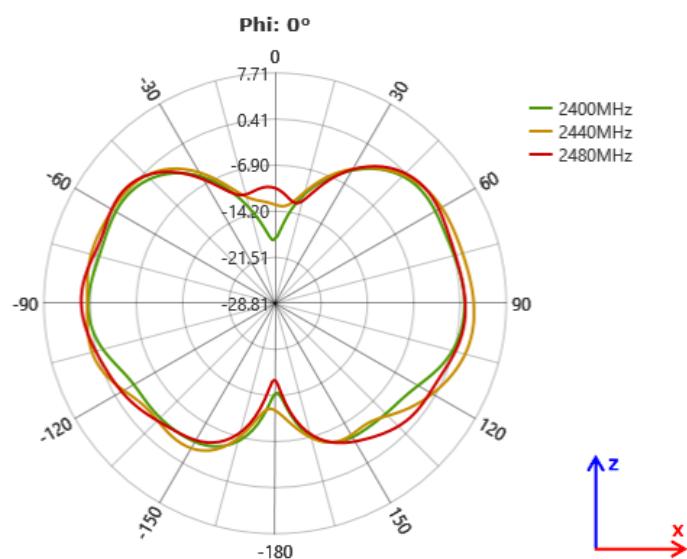
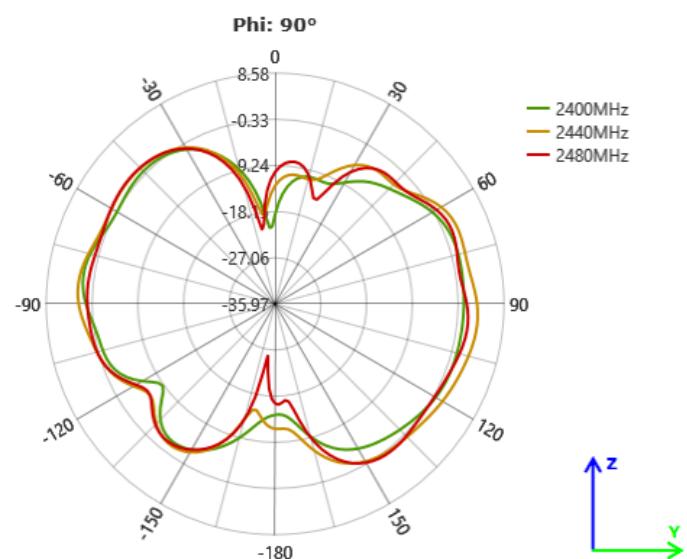
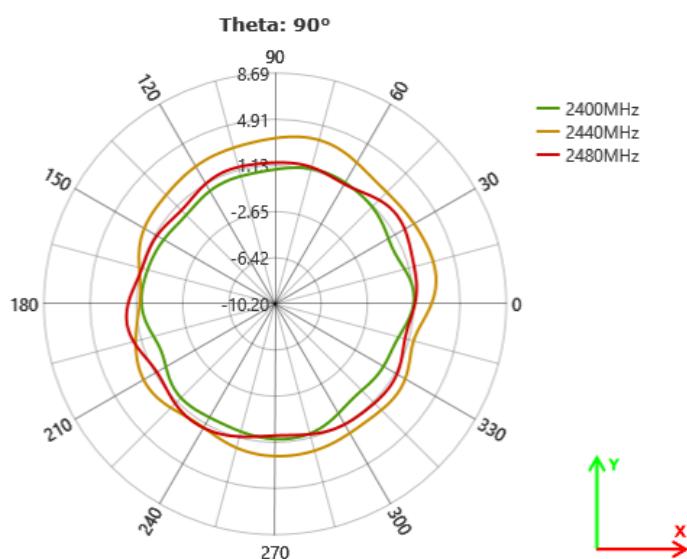
## Efficiency



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## Radiation Patterns

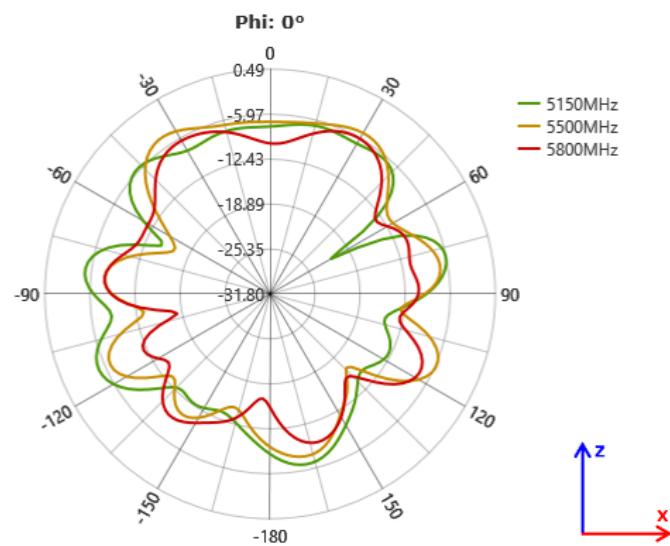
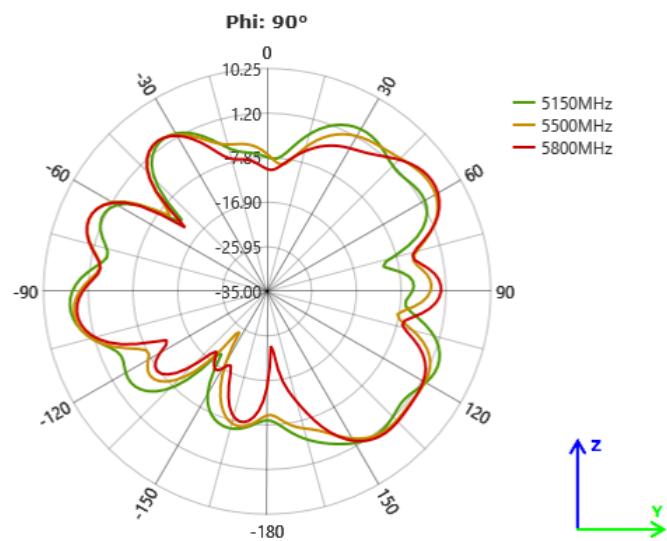
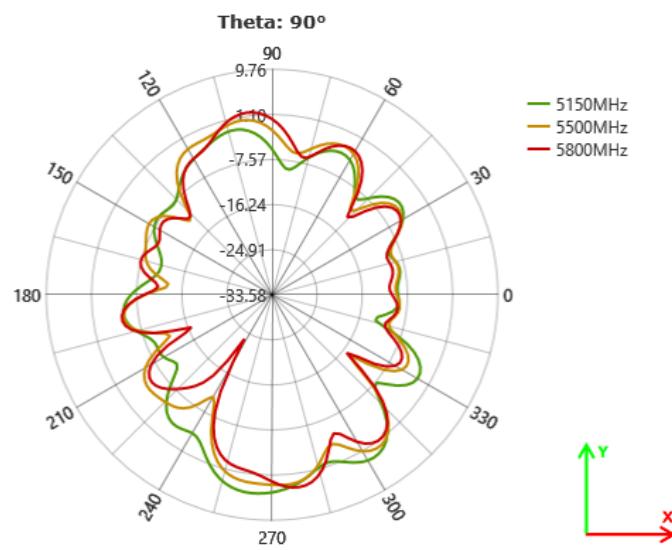
2400-2480MHz



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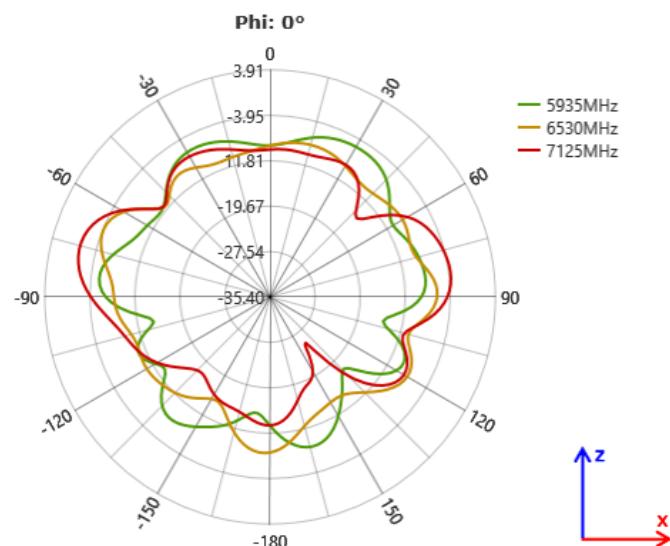
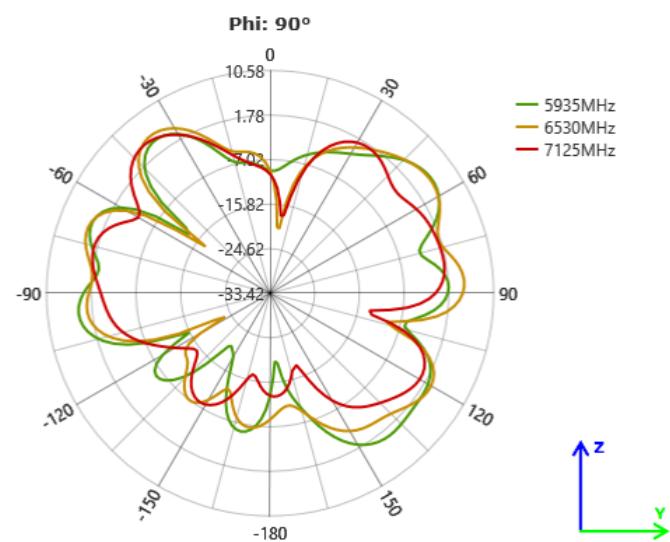
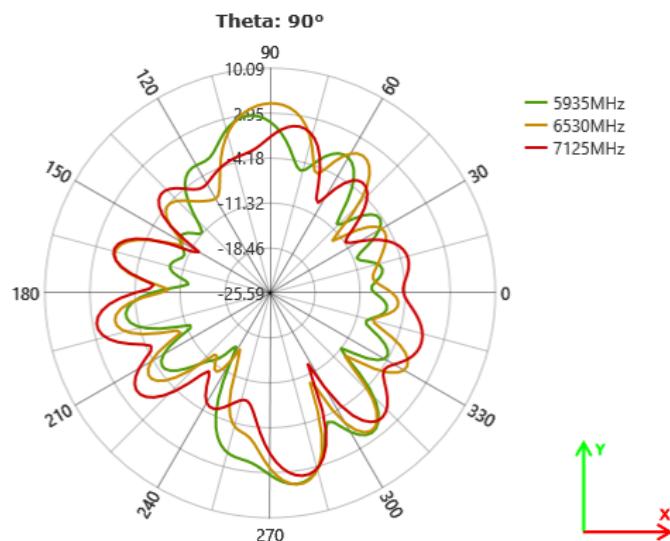
**Radiation Patterns**

5150-5800MHz

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## Radiation Patterns

5935-7125MHz



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