

Antenna Specification

Product Model: EAP727

Manufacturer: TP-Link Systems Inc.

Date: 2025.11.25

Checked By:

Cui Jiafu

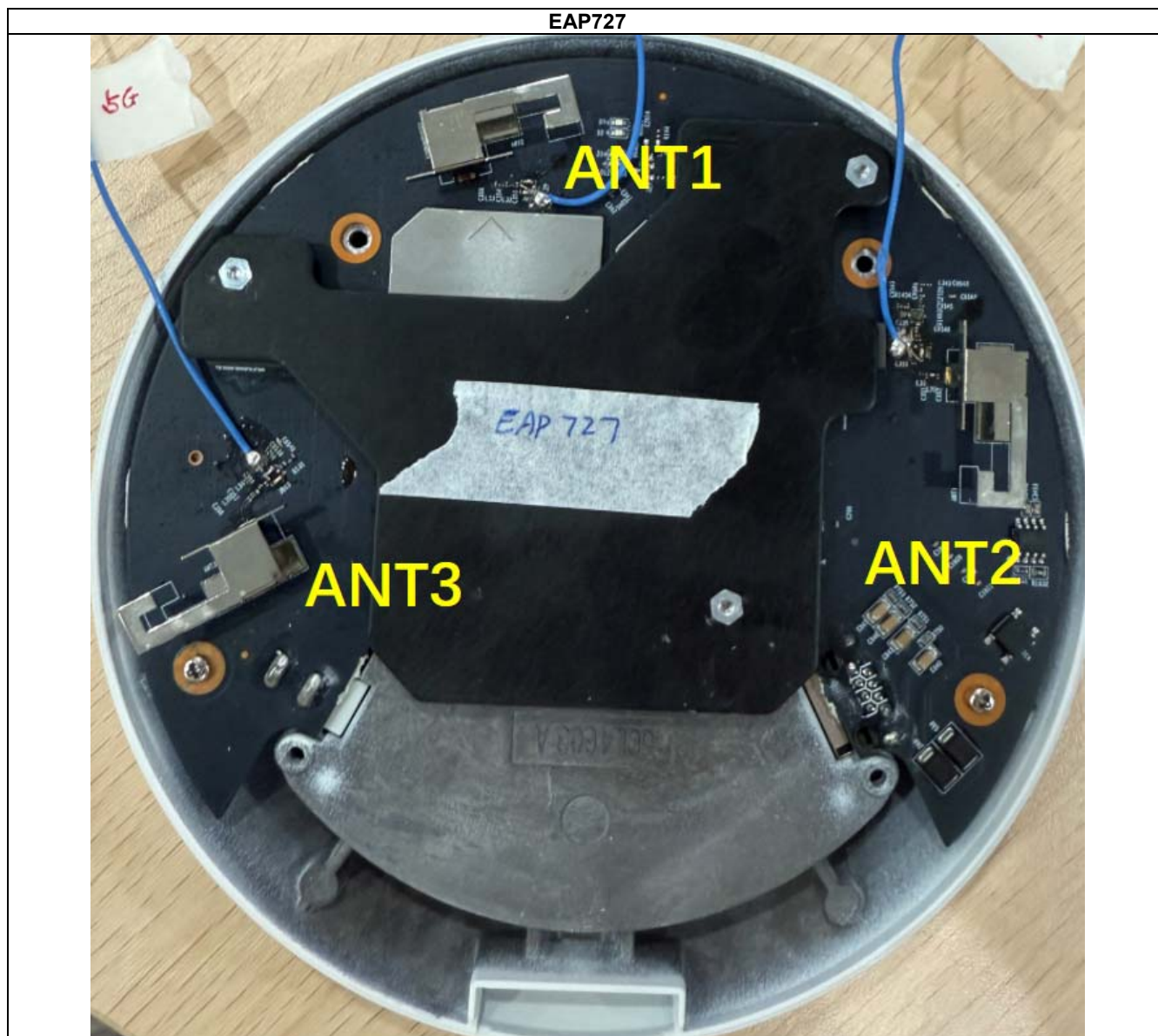
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1. Antenna Distribution



2. Electrical Characteristics

Ant1(wifi 天线)	
Frequency	2400~2500 & 5150~5895MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	3.38dBi@2400~2500MHz 4.94dBi@5150~5250MHz 4.94dBi@5250~5350MHz 5.29dBi@5470~5725MHz 5.17dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	EAP727-ANT1

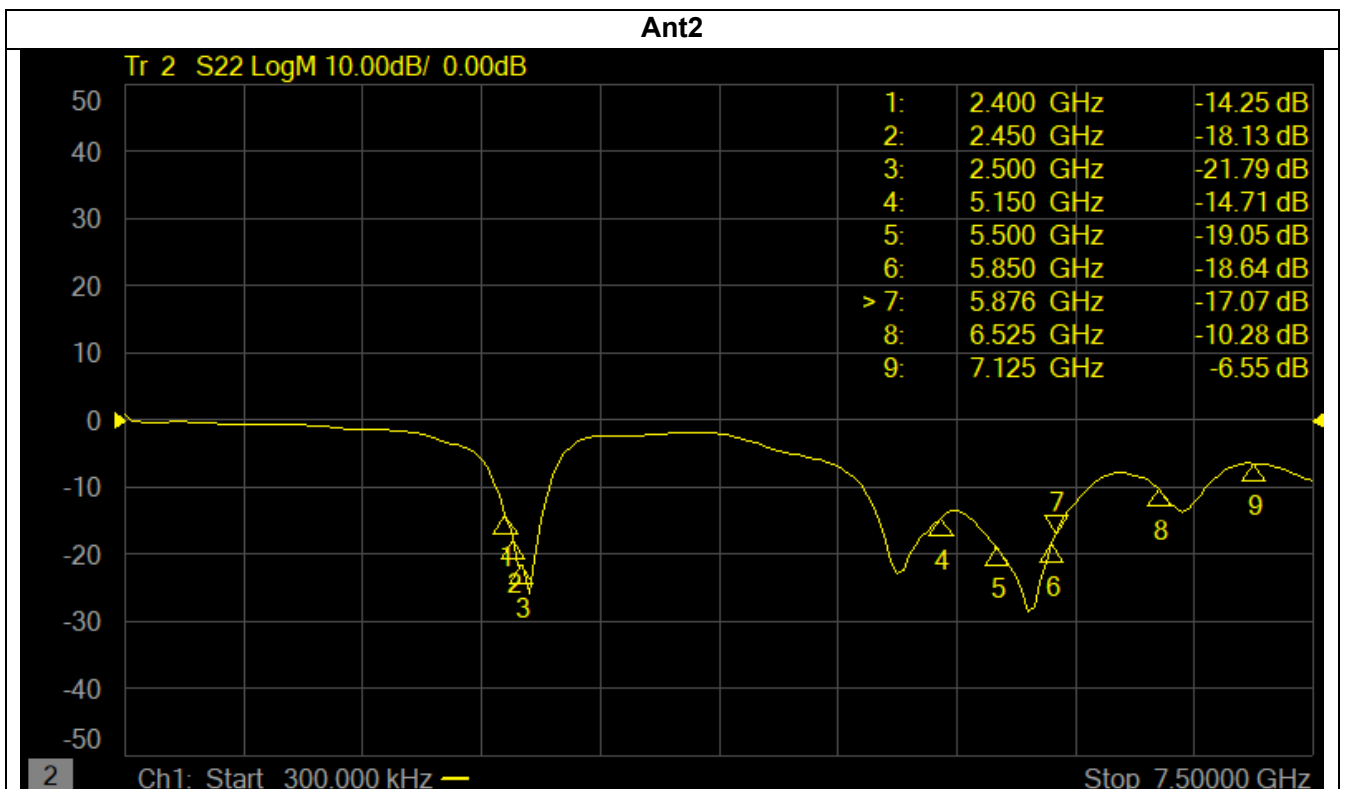
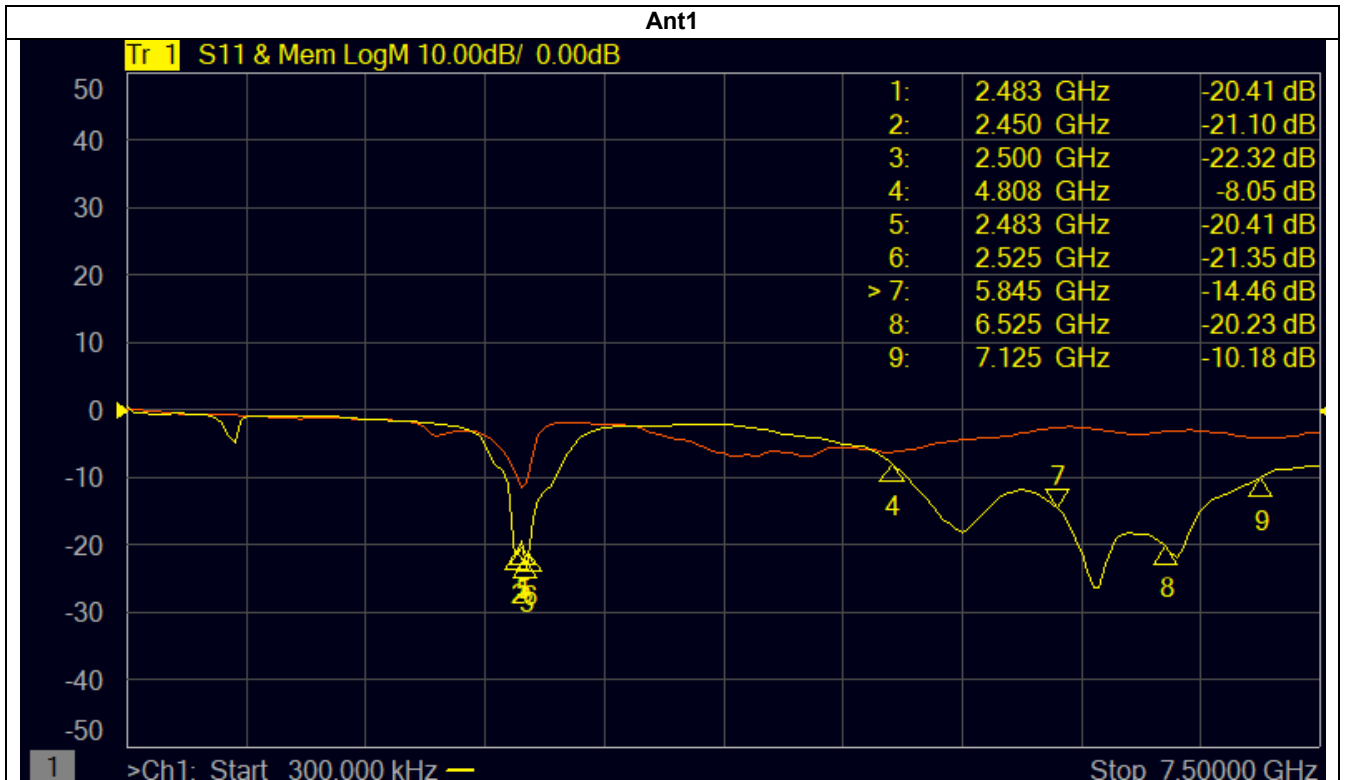
Ant2(wifi 天线)	
Frequency	2400~2500 & 5150~5895MHz
Impedance	50Ohm

Antenna Type	Dipole
Antenna Gain	3.00dBi@2400~2500MHz 3.61dBi@5150~5250MHz 3.61dBi@5250~5350MHz 3.95dBi@5470~5725MHz 4.04dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	EAP727-ANT2

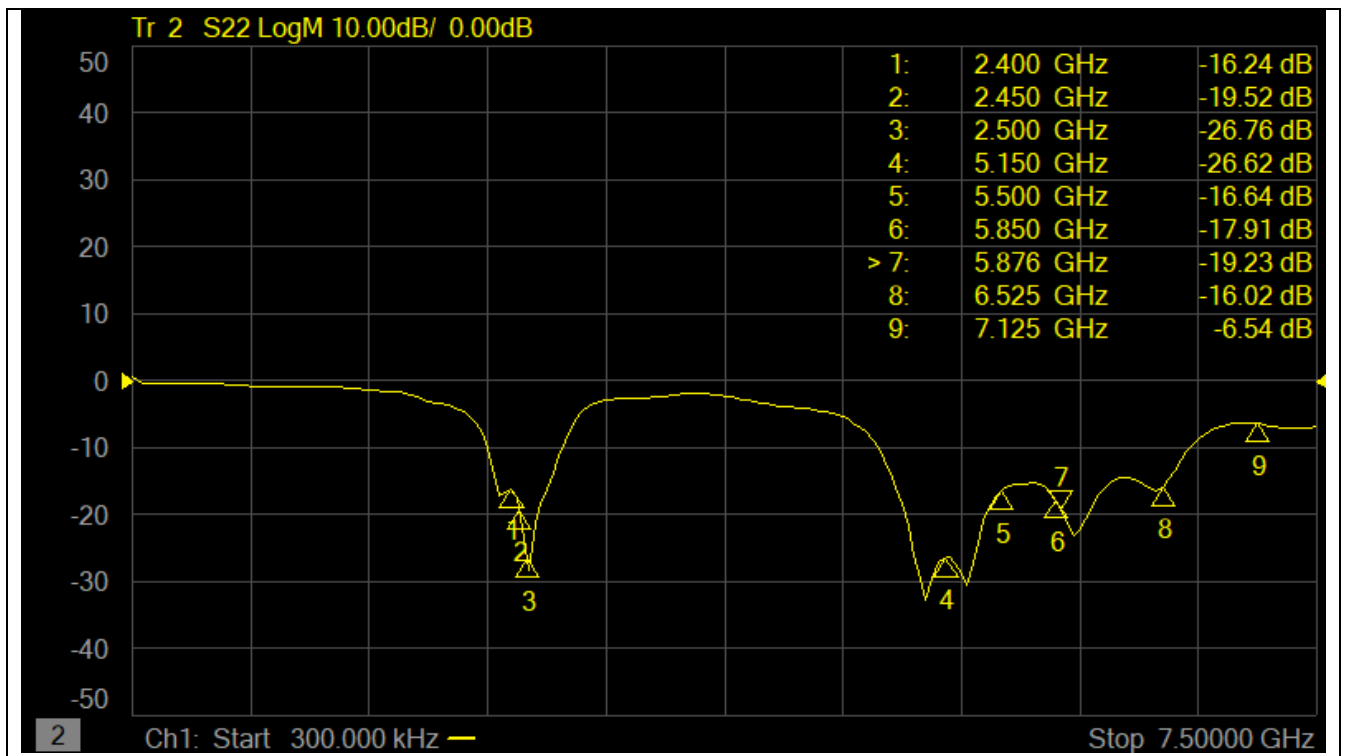
Ant3(wifi 天线)	
Frequency	5150~5895MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	5.35dBi@5150~5250MHz 5.77dBi@5250~5350MHz 7.07dBi@5470~5725MHz 7.46dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	EAP727-ANT3

Ant3(ble 天线)	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	3.00dBi@2400~2500MHz
Radiation pattern	Omni-Directional
P/N	EAP727-ANT3

3. S Parameter Test Data



Ant3



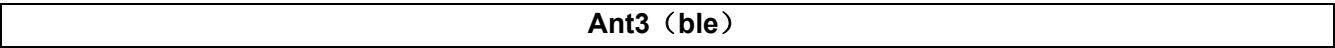
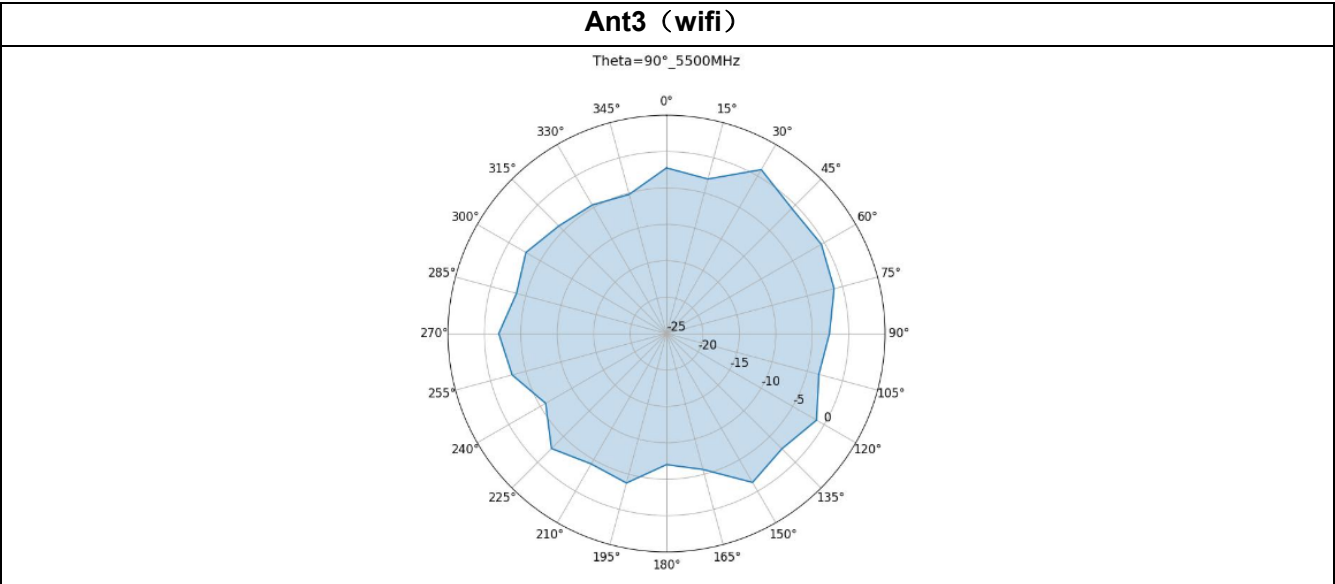
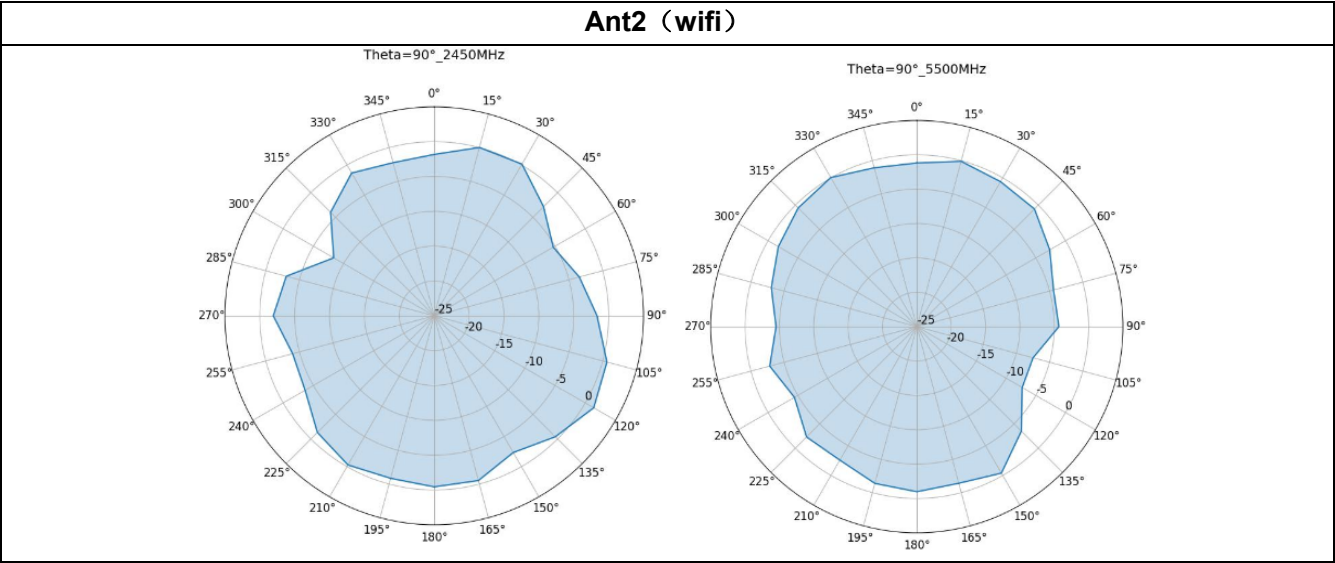
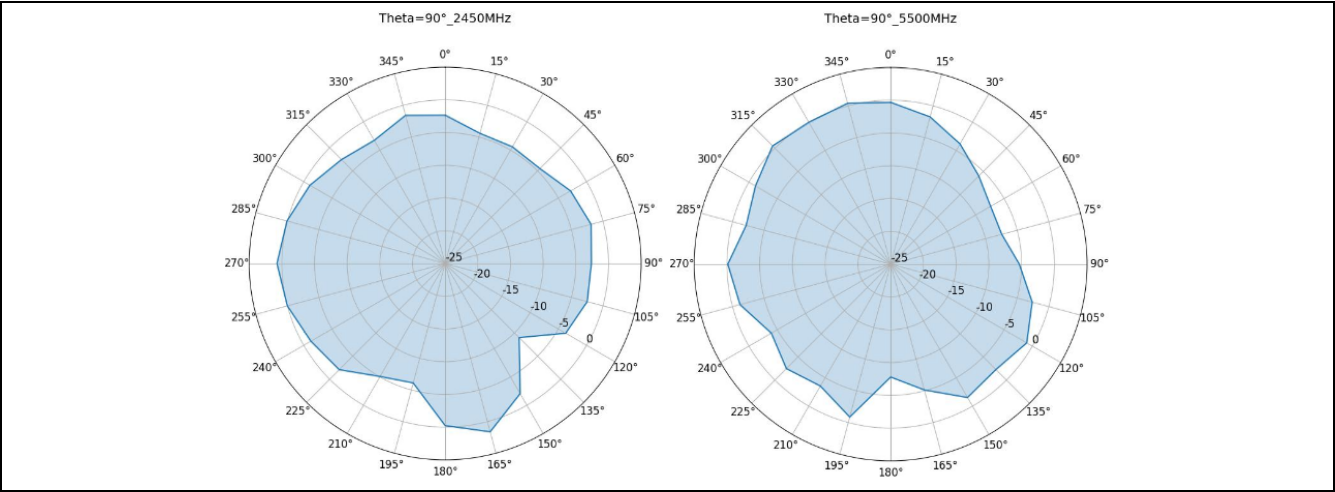
4. Antenna Peak Gain

Frequency	2.45GHz 2400~2500MHz	5.2GHz 5150~5250MHz	5.3GHz 5250~5350MHz	5.6GHz 5470~5725MHz
Ant1 MaxGain(dBi)	3.38	4.94	4.94	5.29
Ant2 MaxGain(dBi)	3.00	3.61	3.61	3.95
Ant3 MaxGain(dBi)	/	5.35	5.77	7.07
Max Gain(dBi)	3.38	5.35	5.77	7.07

Frequency	5.8GHz 5725~5895MHz
Ant1 MaxGain(dBi)	5.17
Ant2 MaxGain(dBi)	4.04
Ant3 MaxGain(dBi)	7.46
Max Gain(dBi)	7.46

5. Antenna Radiation Pattern

Ant1 (wifi)



ble-Theta=90°_2450MHz

