



QUECTEL

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佳能 / KC86F00

Antenna Testing Report

Build a Smarter World

Project Overview

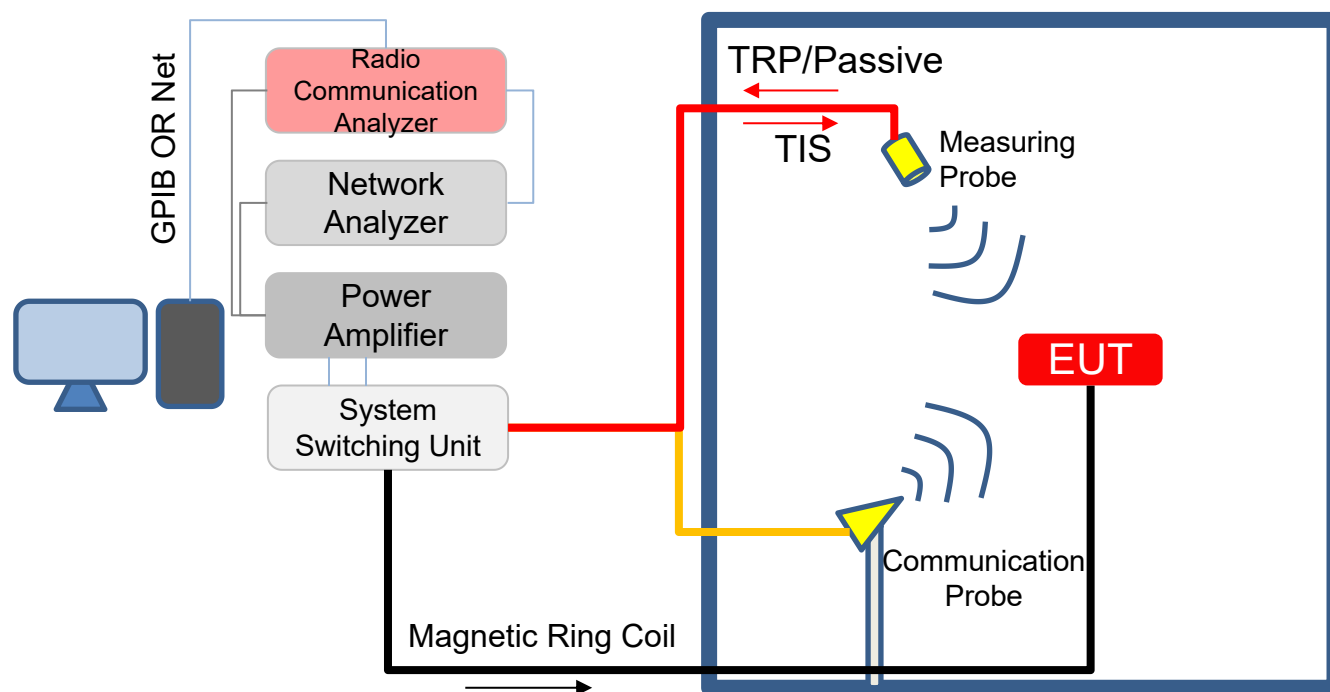


- Device Dimensions: 125.7 × 88.2 × 45.5.0 mm
- Mainboard Dimensions: 82 × 80 mm
- Antenna Quantity: 1
- Antenna OC:
 - ✓ WiFi:YC0009AA
- Network Standard and Frequency Band:
 - ✓ WiFi:2400-2500MHz
- Module Model: FCS945R
- Antenna Type: Chip antenna

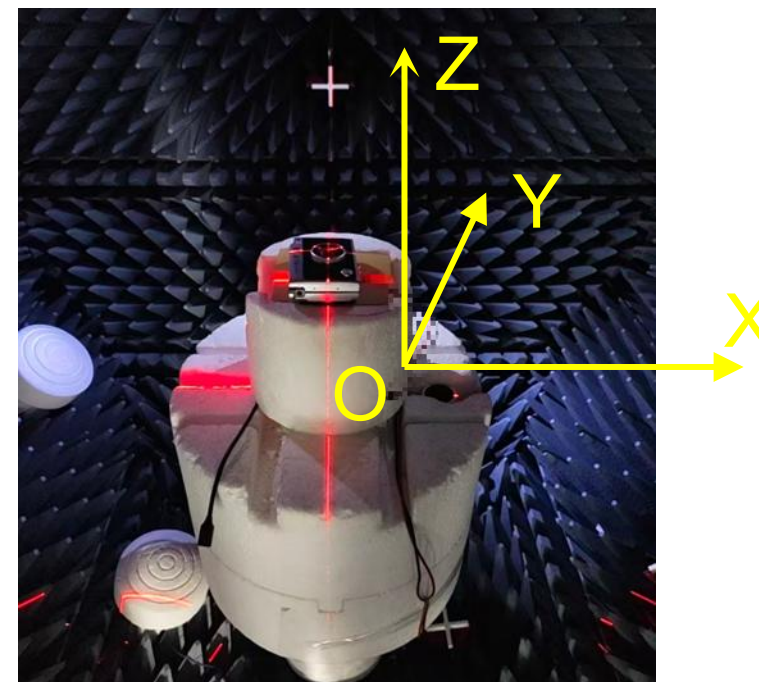
Antenna Test



- Chamber Coordinate System GL-G-1



H Plane: XY
E1 Plane: XZ
E2 Plane: YZ



Passive Simulation



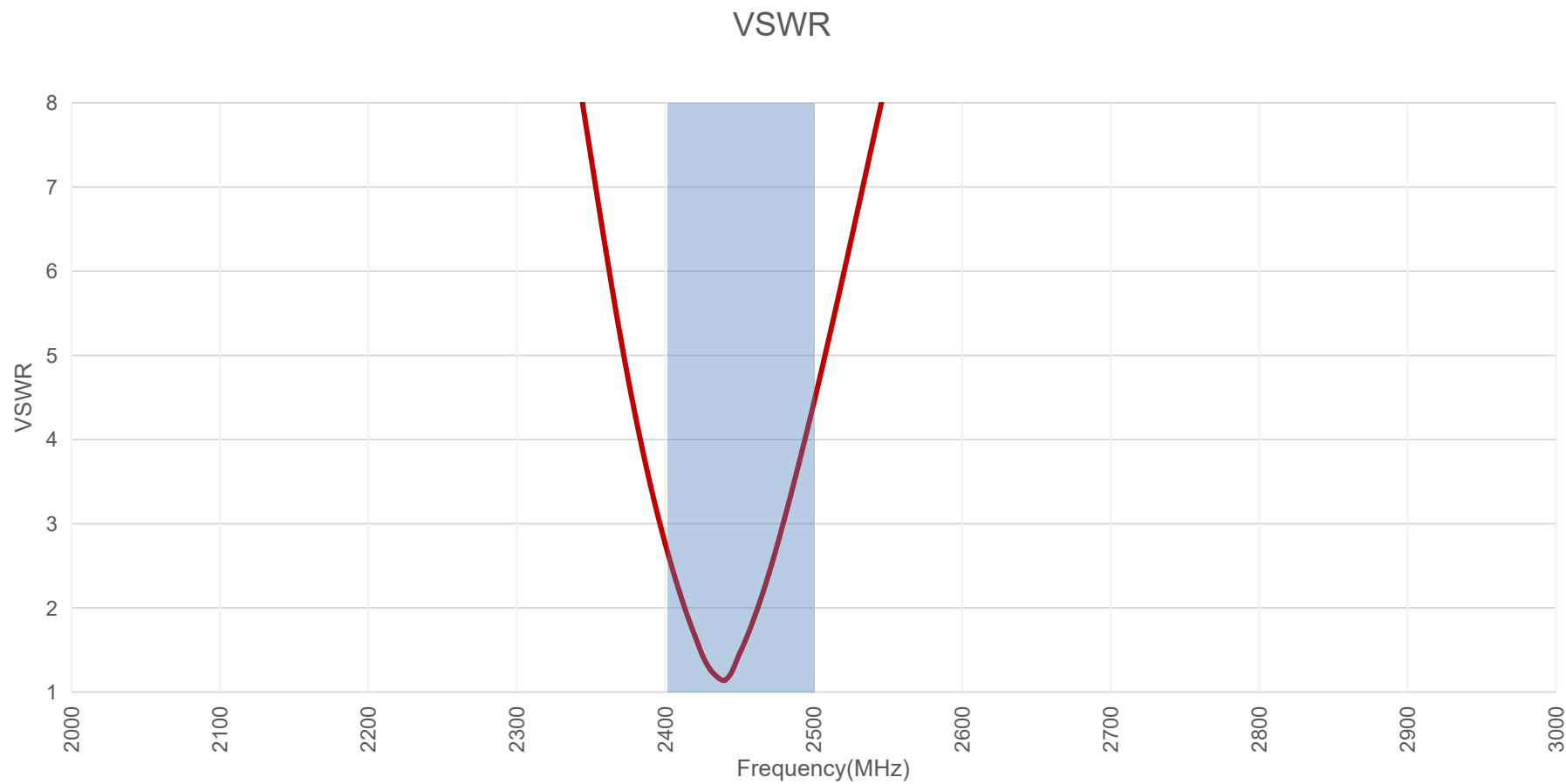
- Passive Simulation Data

Passive Test				
Frequency (MHz)	VSWR(MAX)	Efficiency(Avg)(%)	Efficiency(Avg)(dB)	Peak gain(dBi)
2400-2500	4.4	28.6	-5.5	-0.6

Antenna Passive Test



- VSWR (Voltage Standing Wave Ratio)



VSWR:

2400-2500MHz < 4.4

Antenna Passive Test



- Average Efficiency



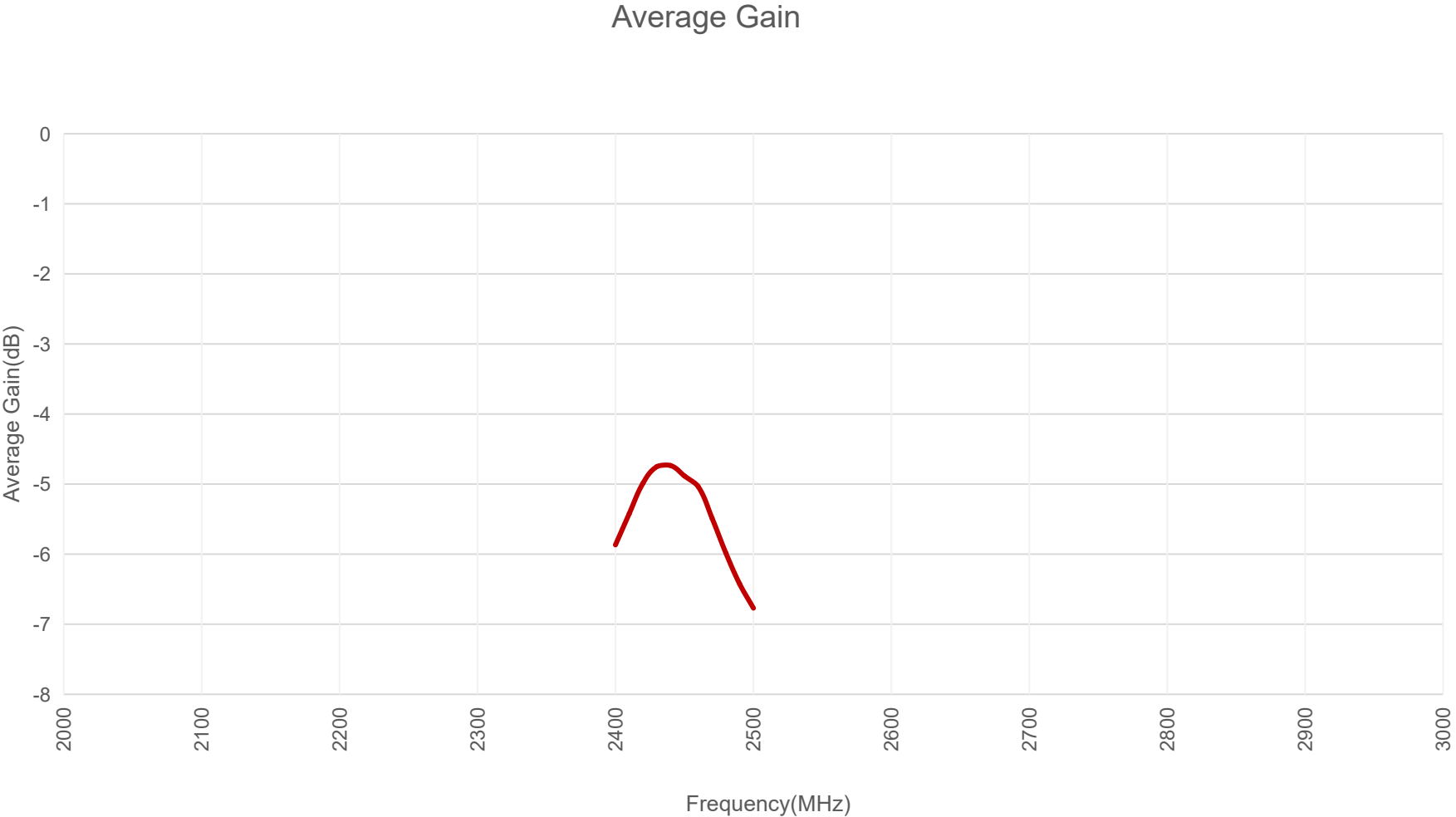
Efficiency:

2400-2500MHz > 21%

Antenna Passive Test



- Average Gain

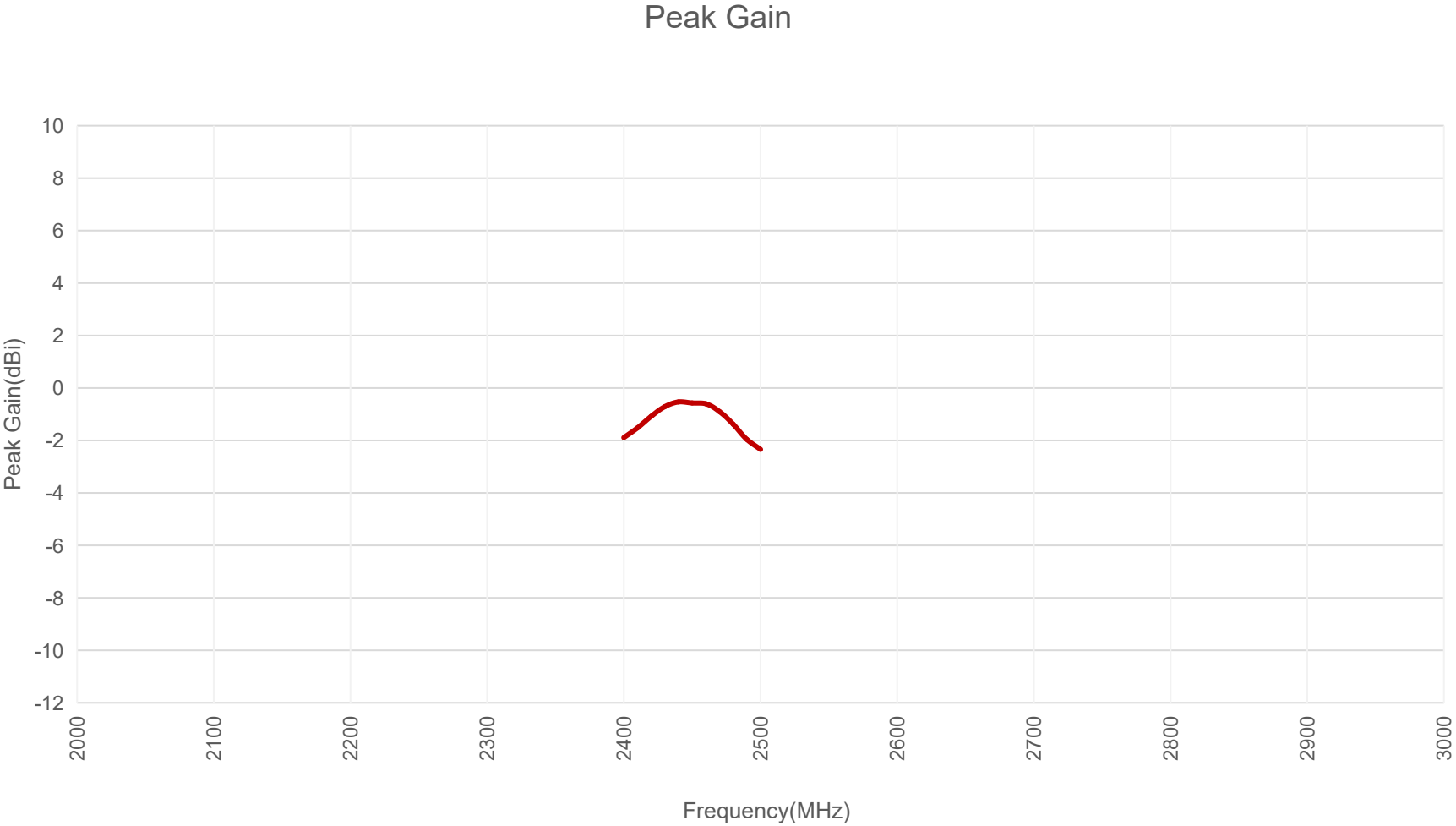


Average gain:
2400-2500MHz > -6.7 dB

Antenna Passive Test



- Peak Gain



Peak gain:
2400-2500MHz : -0.6 dBi