

Specification

CUSTOMER NAME:

PRODUCT NAME: TPA08-M3 BT-ANTENNA L=70mm

CUSTOMER P/N:

UB P/N: UB01C70P2D4685A REV: A

PRODUCER NAME: Youbi

Dongguan Youbi Electronics Co.,LTD, Room 101,Building 2,No.9,
PRODUCER ADDRESS: Xinfu Road,Lin Village,Tangxia Town, Guangdong province

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Wenqiang. Xiong	
APPROVED BY:	Kangjun. Xu	
DATE:	2024/11/13	

1. Specification table:

Electrical Specification	
Design Specifications	Types
Antenna Type	PIFA antenna
Operating Frequency	2400-2500MHz
Peak Gain	2.54dBi
Average Efficiency	51.61%
Return Loss	<-10
Polarization	Linear
Radiation pattern	Omnidirectional
Impedance	50 ohm
Power handling	1W
Interface	Cable+terminal
Overall dimensions	28*18*0.35mm
Operating Temp.	-20℃~+70℃
Storage Temp.	-20℃~+70℃
Test Standard	ANSI/IEEE Std 149-1979
Test Location	Dongguan Youbi Electronics Co.,LTD Room 101,Building 2,No.9, Xinfu Road,Lin Village,Tangxia Town

2. Test Configurations

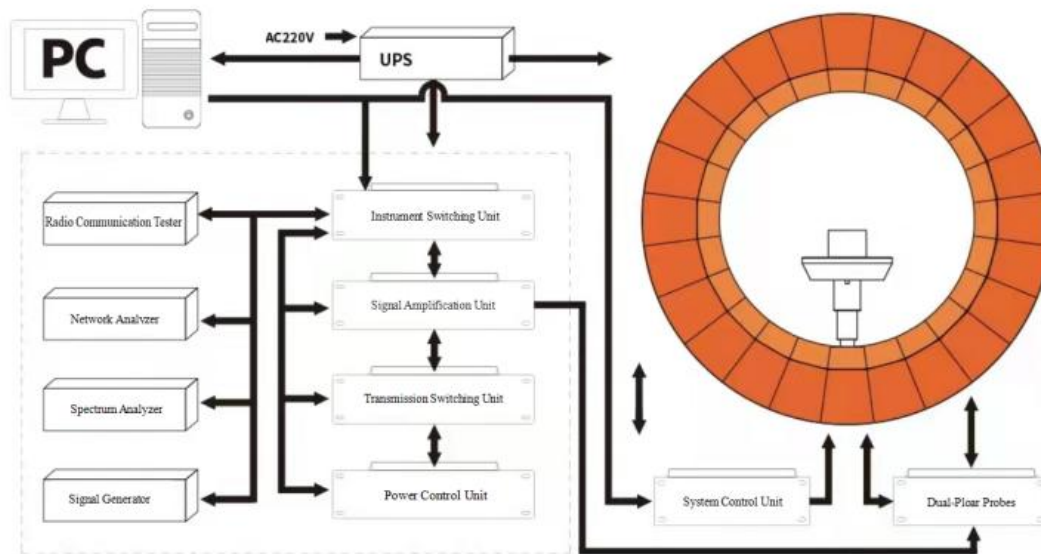
2.1 Test Environment

Temperature (°C)	25.4
Humidity (%RH)	54
Atmospheric Pressure (kPa)	100.3

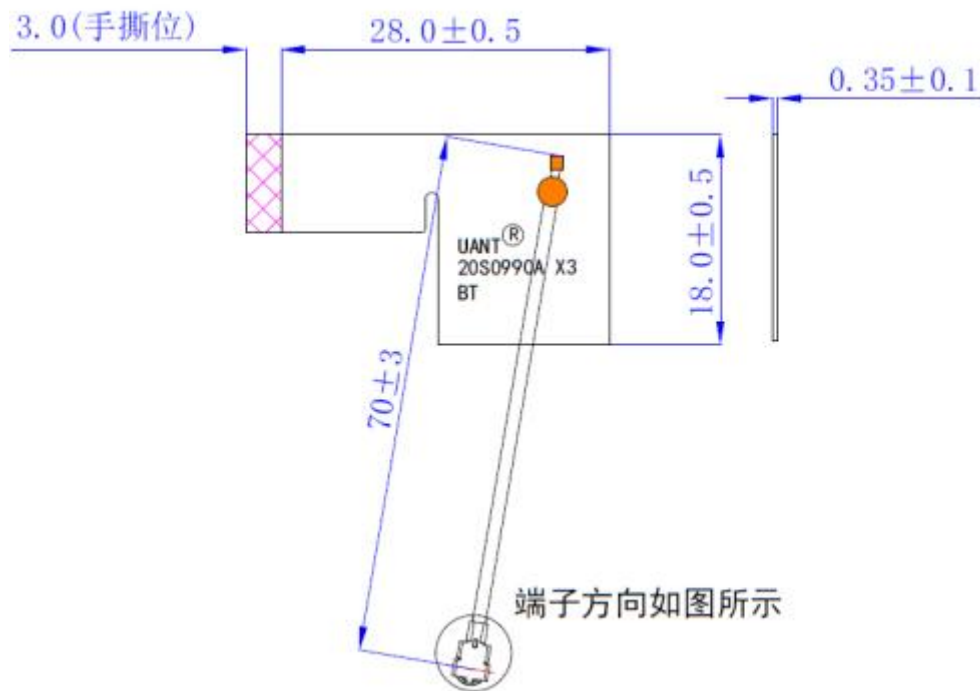
2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B
Calibration Validity	2025-08-19
Test Software	Passive Test 
Software Version	V2.7.0

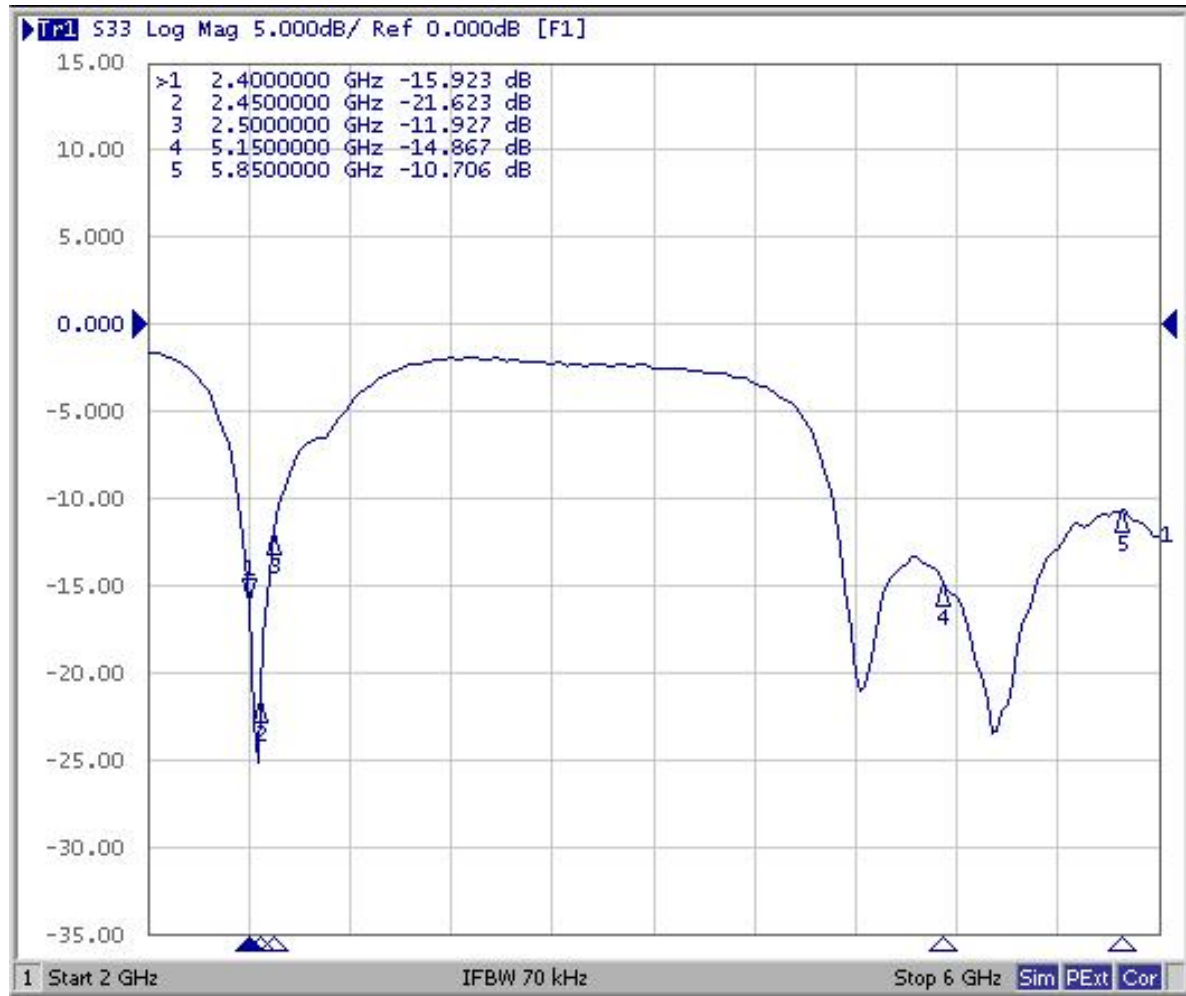
2.3 Test Principle



3. Mechanical Specification



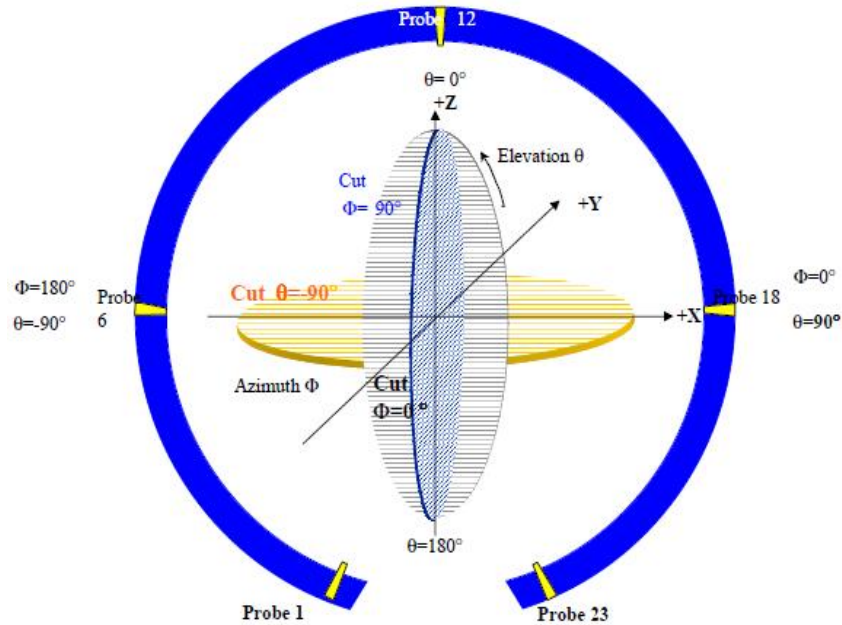
3.2: Darkroom 2D、3DRaditation Pattern

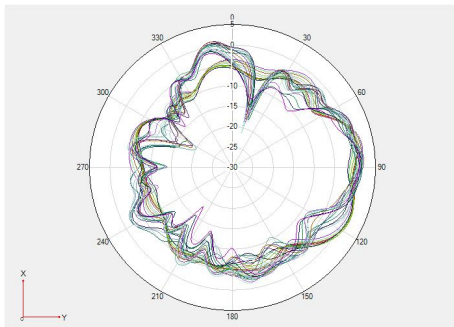
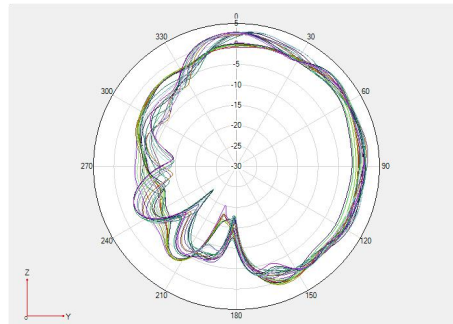
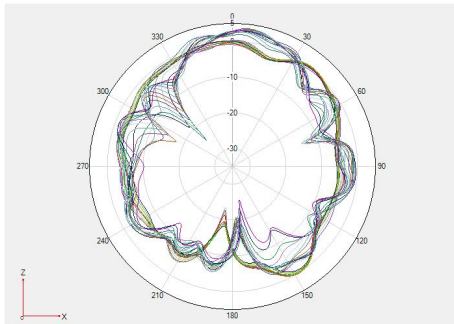
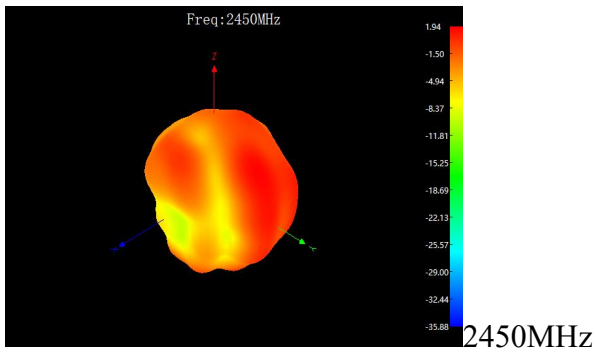


3.2.1 Efficiency and gain

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-2.53	55.85	2.4
2410	-2.57	55.34	2.53
2420	-2.57	55.34	2.54
2430	-2.68	53.95	2.47
2440	-2.86	51.76	2.31
2450	-3.05	49.55	1.94
2460	-2.99	50.23	1.85
2470	-2.83	52.12	1.87
2480	-2.99	50.23	1.63
2490	-3.32	46.56	1.21
2500	-3.3	46.77	1.34

3.2.2.1 Darkroom 2D、3D Raditation Pattern





4:Antenna position

