

## Specification

CUSTOMER NAME:

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PRODUCT NAME: TPA08-M3 BLE-ANTENNA L=60mm

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CUSTOMER P/N:

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UB P/N: UB01C58P2D4687A REV: A

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PRODUCER NAME: Youbi

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Dongguan Youbi Electronics Co.,LTD, Room 101,Building 2,No.9,

PRODUCER ADDRESS: Xinfu Road,Lin Village,Tangxia Town, Guangdong province

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

## 1. Specification table:


<b>Electrical Specification</b>	
Design Specifications	Types
Antenna Type	PIFA antenna
Operating Frequency	2400-2500MHz
Peak Gain	2.3dBi
Average Efficiency	37.25%
Return Loss	<-10
Polarization	Linear
Radiation pattern	Omnidirectional
Impedance	50 ohm
Power handling	1W
Interface	Cable+terminal
Overall dimensions	32.1*15.9*0.35mm
Operating Temp.	-20°C~+70°C
Storage Temp.	-20°C~+70°C
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

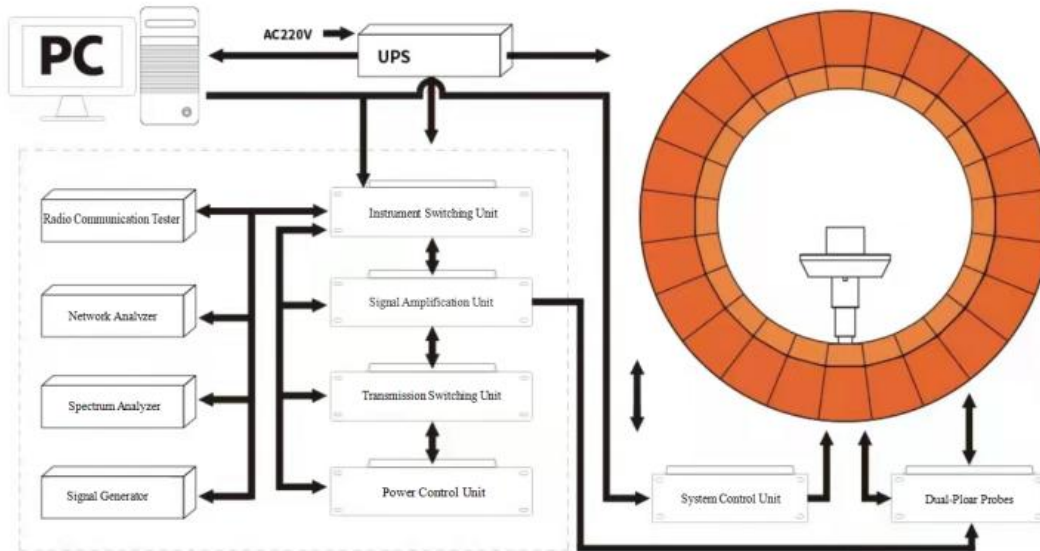
### 2.1 Test Environment

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

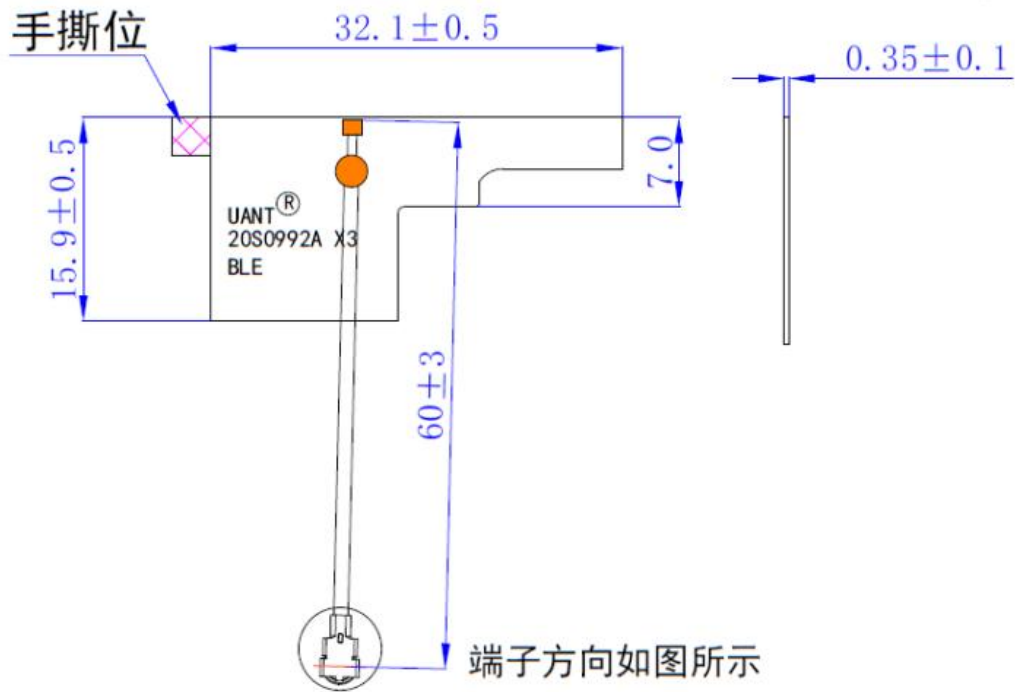
### 2.2 Test Equipment

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

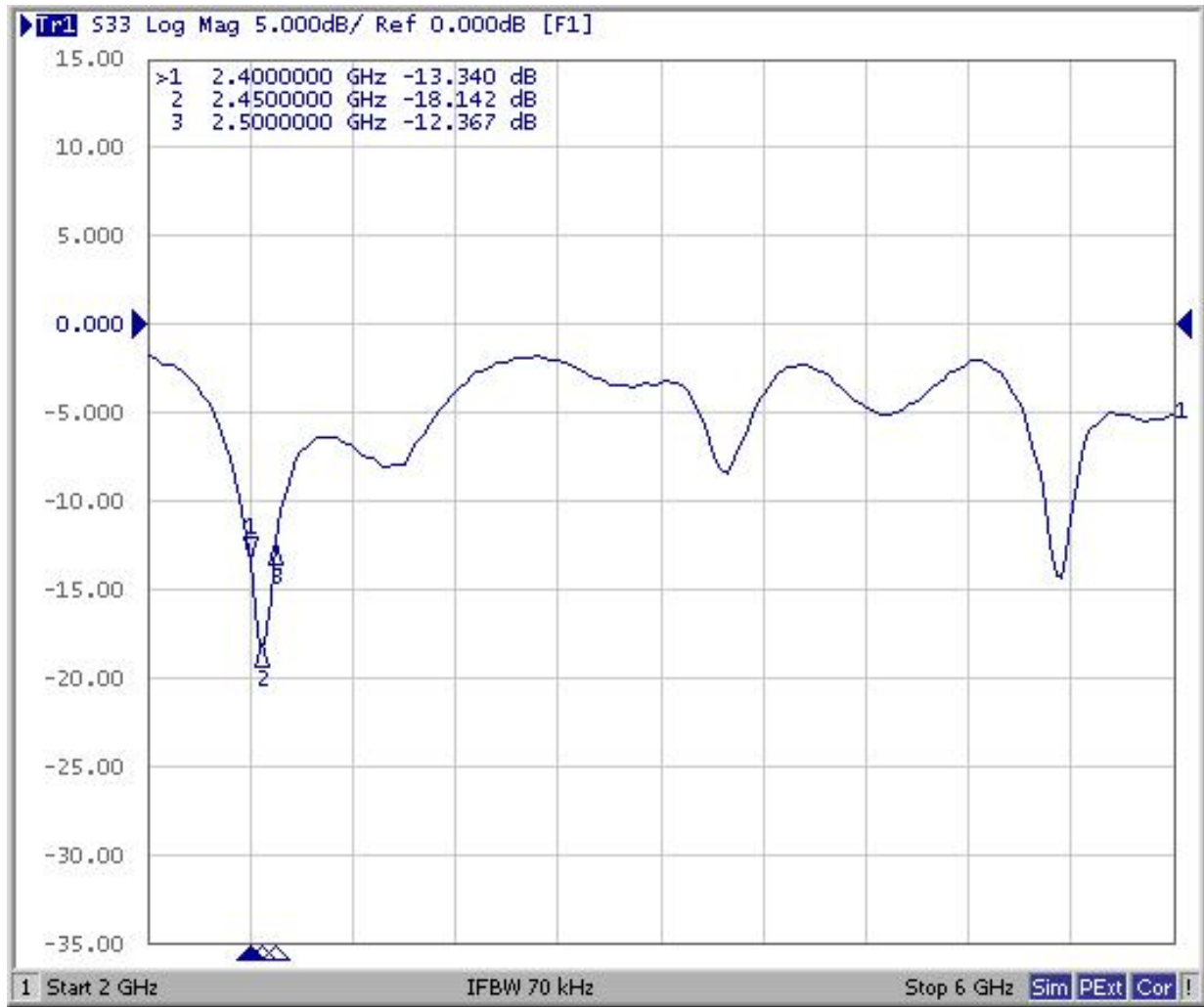
### 2.3 Test Principle



### 3. Mechanical Specification



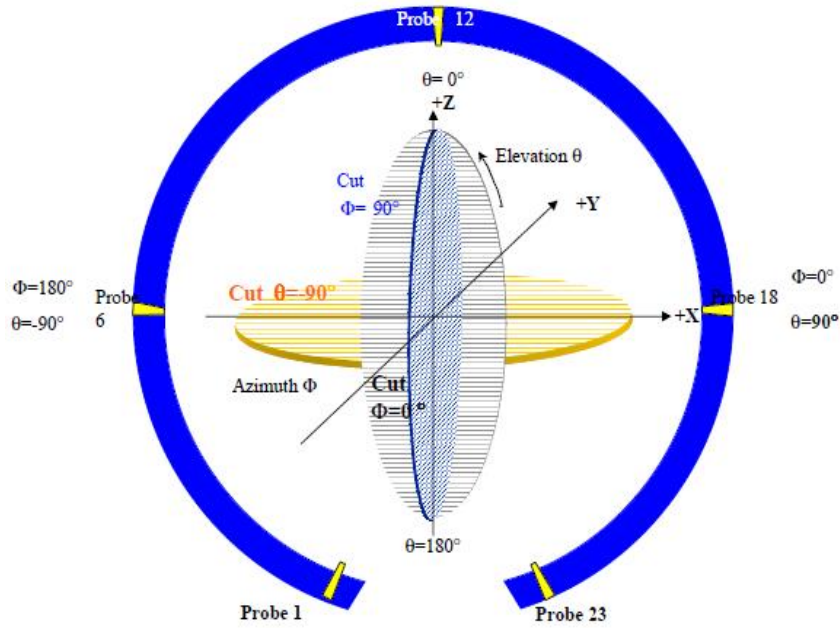
### 3.2: Darkroom 2D、3DRaditation Pattern

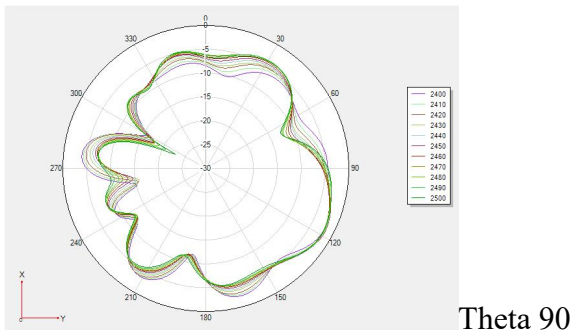
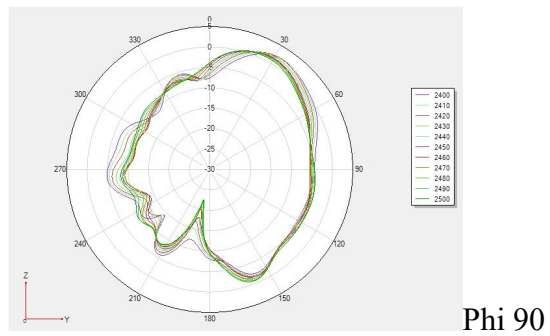
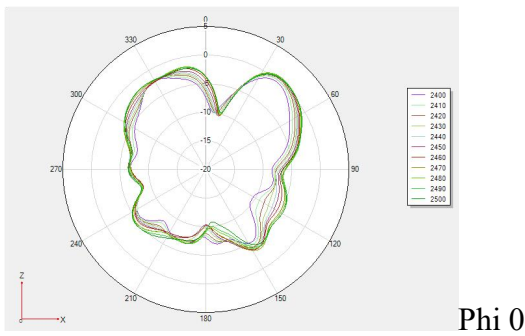
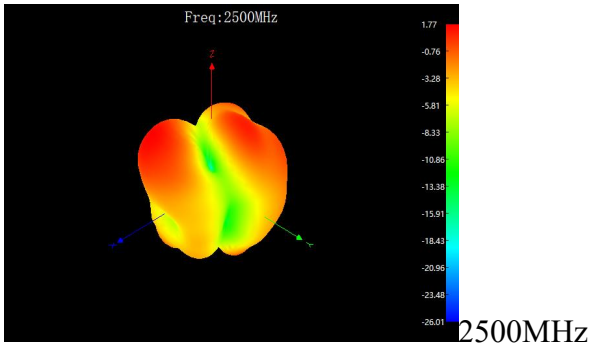
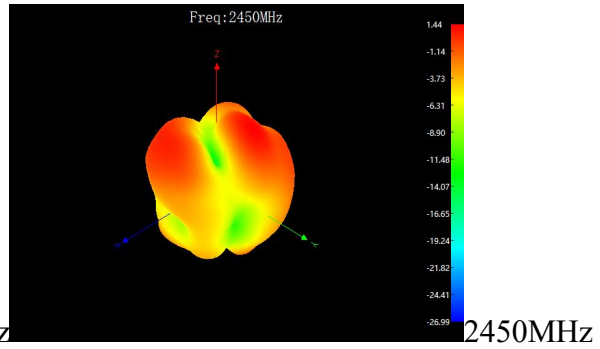
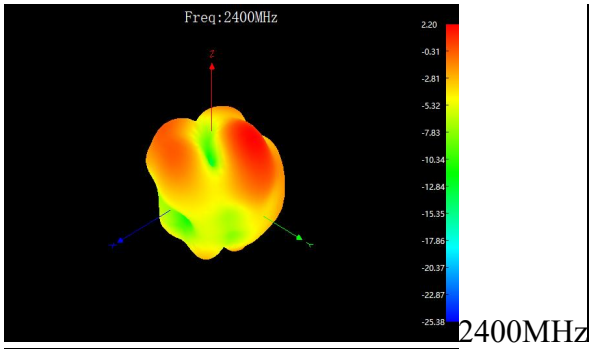


### 3.2.1 Efficiency and gain

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-4.36	36.64	2.2
2410	-4.34	36.81	2.3
2420	-4.28	37.33	2.17
2430	-4.33	36.9	1.84
2440	-4.4	36.31	1.65
2450	-4.36	36.64	1.44
2460	-4.26	37.5	1.35
2470	-4.17	38.28	1.35
2480	-4.23	37.76	1.46
2490	-4.19	38.11	1.63
2500	-4.26	37.5	1.77

### 3.2.2.1 Darkroom 2D、3D Raditation Pattern







## 4:Antenna position

