

TEST REPORT

Product Name	2.4G-SMA Antenna	Model No.	BY-2.4G-01
Prepared by	Guangdong Mankewei Technology Co., LTD		
Test Standard	GB9410-88<<移动通信天线通用技术规范>>		
Test Mode	A11	Number of tested samples	10 pcs
Project Engineer	纪红平	Approved by	李小龙
Date of Test	2024 - 05 - 06		

Test Result:

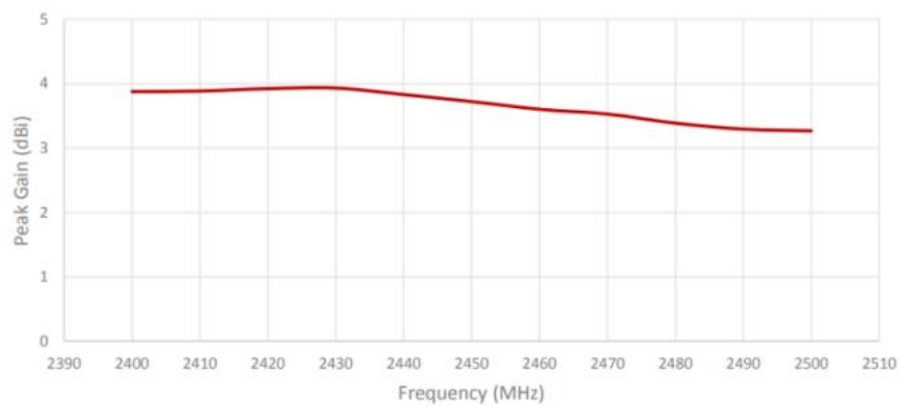
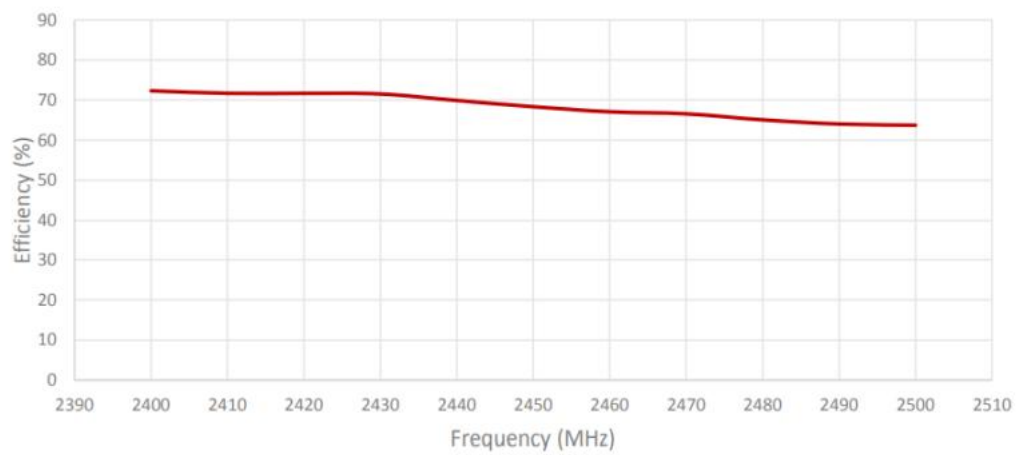
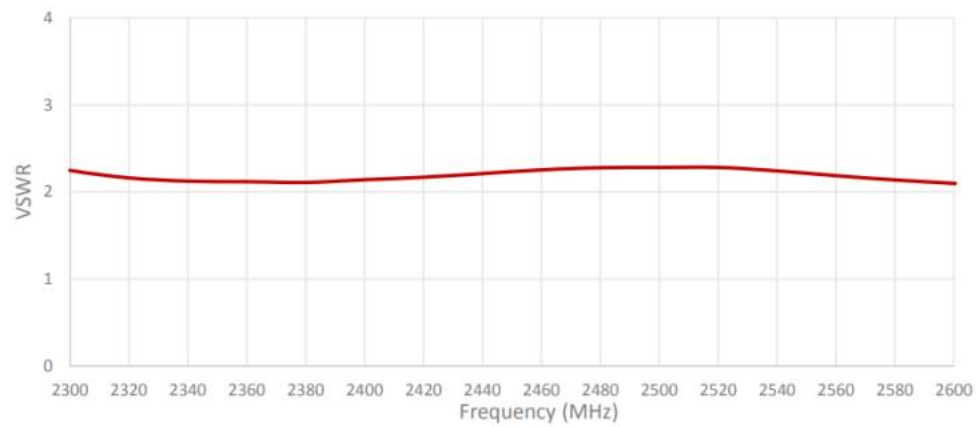
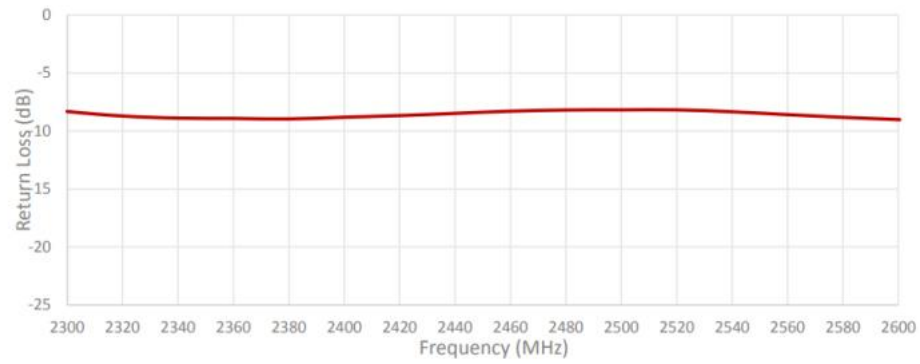
1. Antenna and electrical specifications

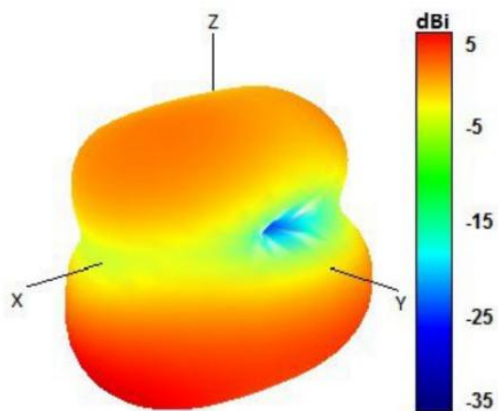
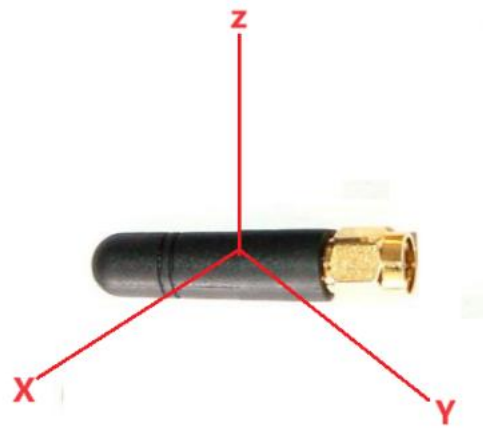
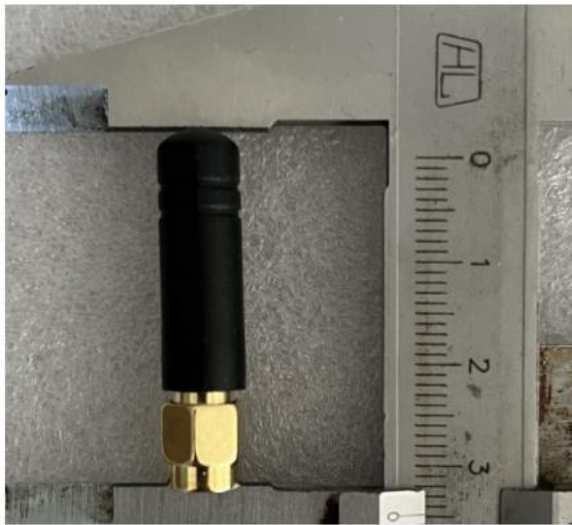
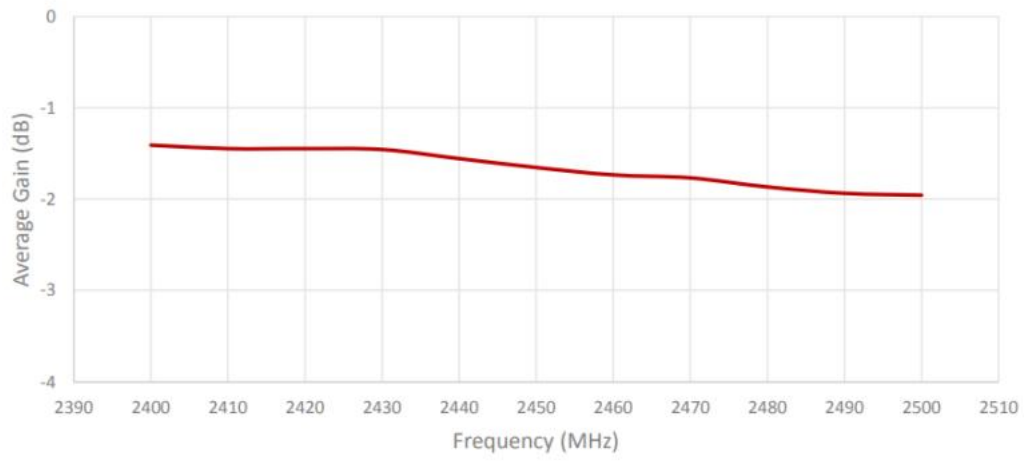
Parameters	2.4 GHz ISM Antenna
Standards	WiFi, BT, ZigBee, ISM
Band (MHz)	2400
Frequency (MHz)	2410-2490
Return Loss (dB)	~8.4
VSWR	~2.2:1
Efficiency (%)	~68
Peak Gain (dBi)	2.08
Average Gain (dB)	~2.
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	SMA-Male Standard

2. Mechanical and environmental specifications

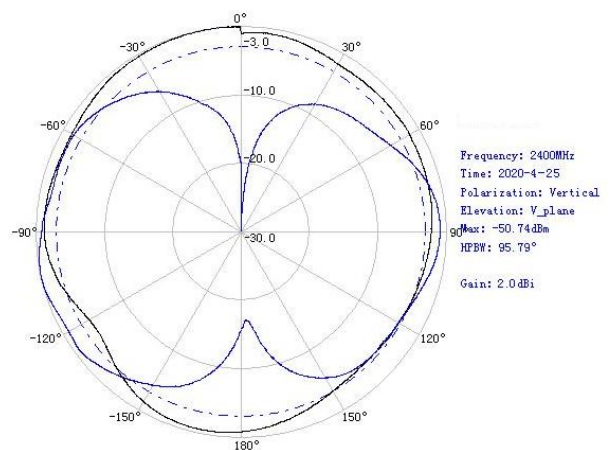
Specifications	BY-2.4G-01
Mounting Type	Connector Mount
Dimensions (mm)	Ø 7.8X 35
Radome	TPE
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

3. Antenna parameters

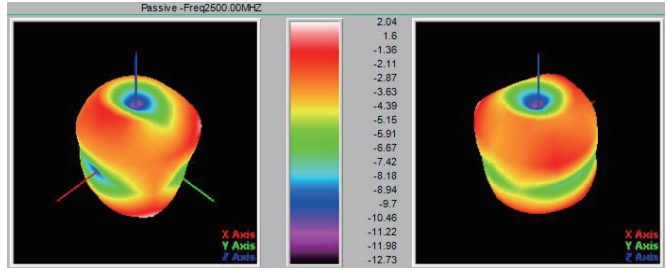
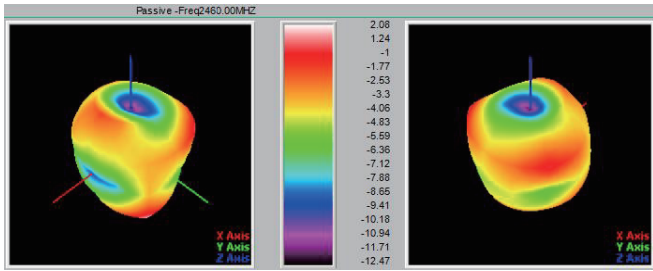
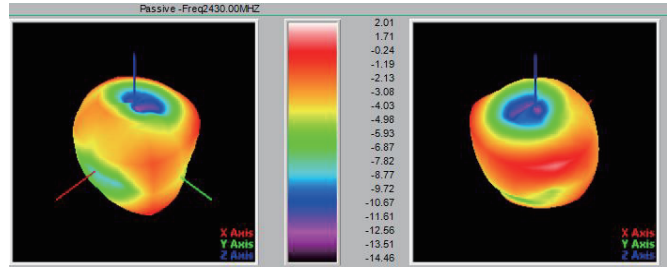
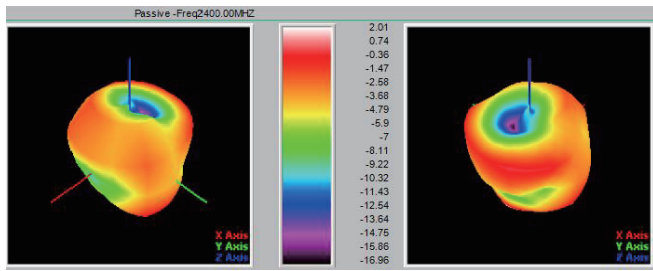




2450 MHz Radiation pattern



SMA WIFI ANTENNA



Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBi)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	2.01	60.4%	150	150	-16.96	30	150	-3.05	18.81	4.90	-13.91
2	2430.0	2430.00	2.00	61.8%	150	150	-14.46	0	90	-3.06	16.12	4.72	-11.40
3	2460.0	2460.00	2.08	65.1%	150	150	-12.47	0	120	-3.63	13.00	4.16	-8.84
4	2500.0	2500.00	2.04	59.4%	120	60	-12.73	0	0	-3.29	12.90	3.45	-9.44