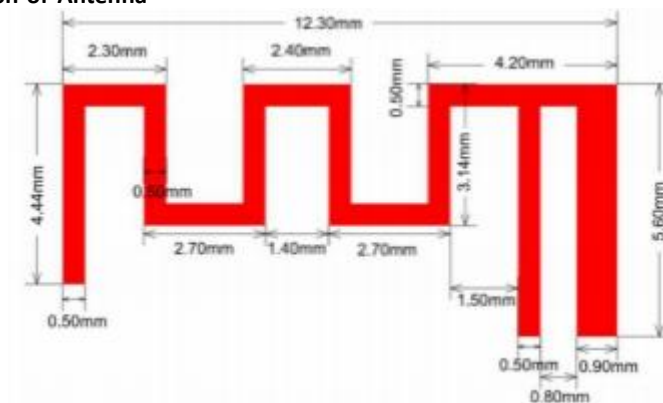


PCB Antenna for BLE Chips of WCH

Name:	Nanjing Qinsheng Microelectronics Co., Ltd,
Address:	No. 18, Ningshuang Road, Nanjing, China Tel: 025-89692393
ANT. No. :	ANT_F_2.4G_1.6

1 、 Dimension of Antenna



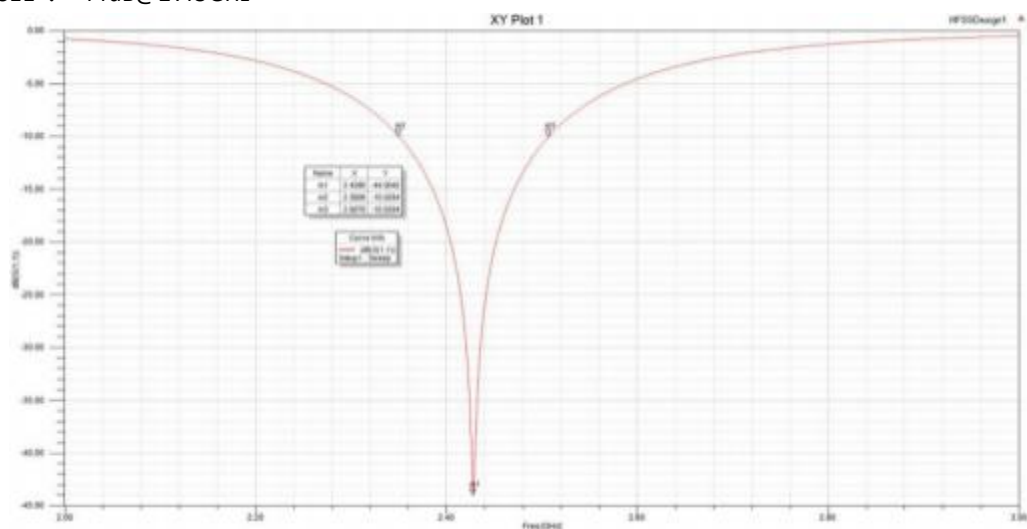
2 、 Features

- Dimension: 5.6 * 12.3mm
- Terminal impedance: 50 ohm
- Max Gain: 2.1dBi
- RF Frequency: 2.4GHz

3 、 S parameter

Working bandwidth: 157MHz

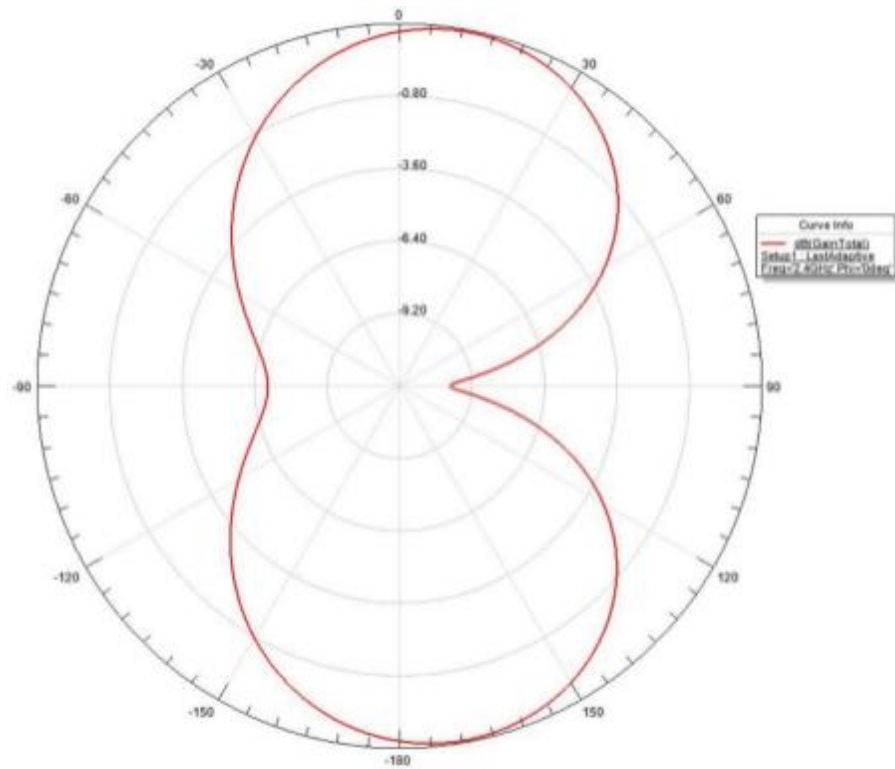
S11 : -44dB@2.43GHz



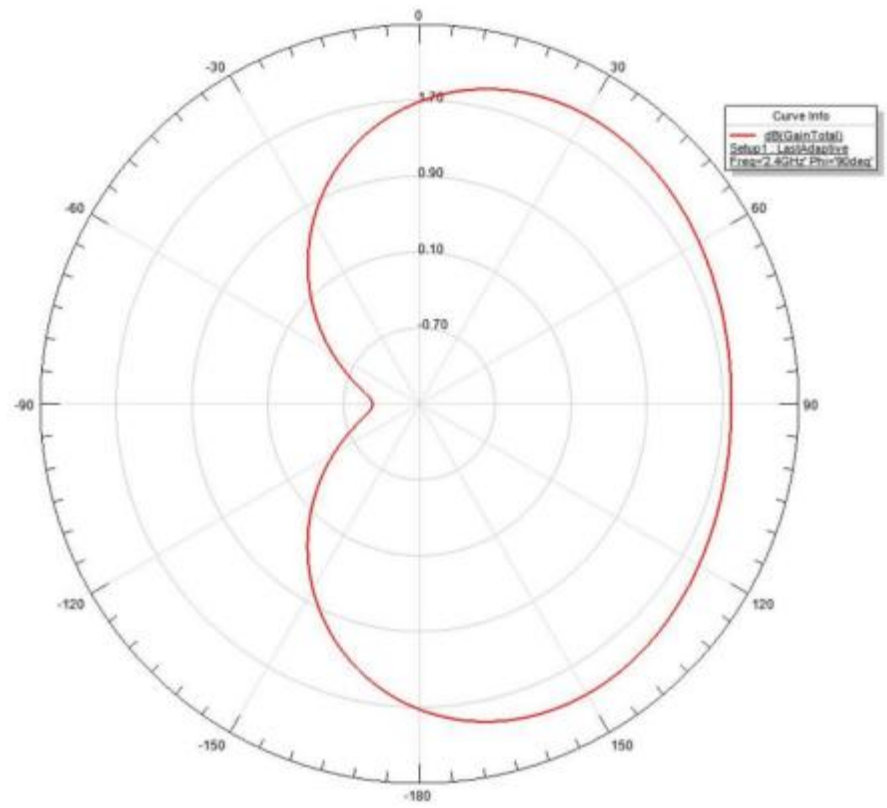
4 、 Gain and Radiation pattern

2.4GHz:

E plane:

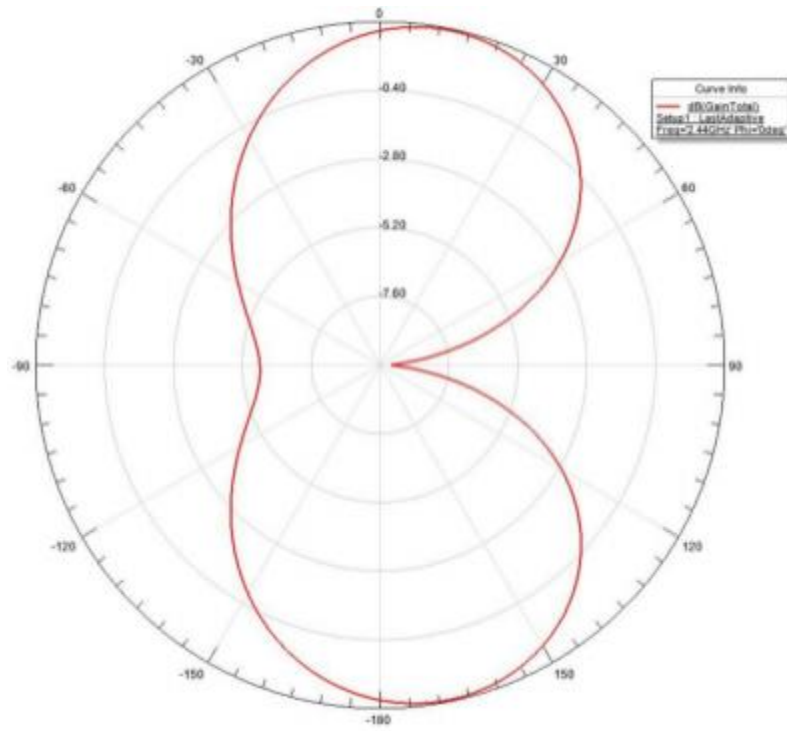


H plane:

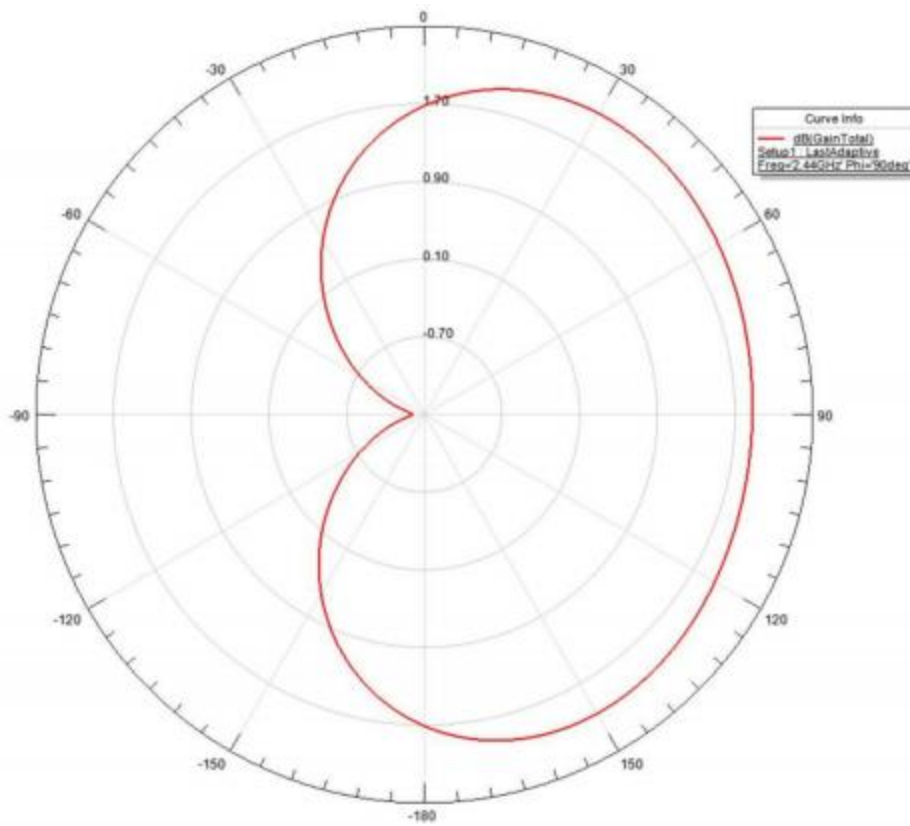


2.44GHz:

E plane:

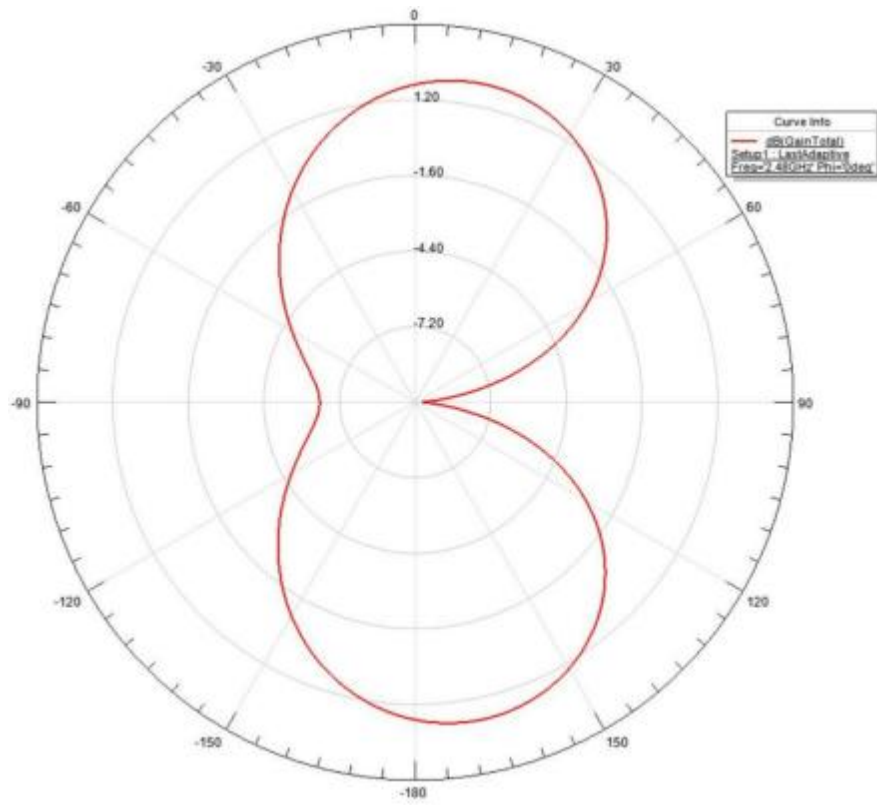


H plane:

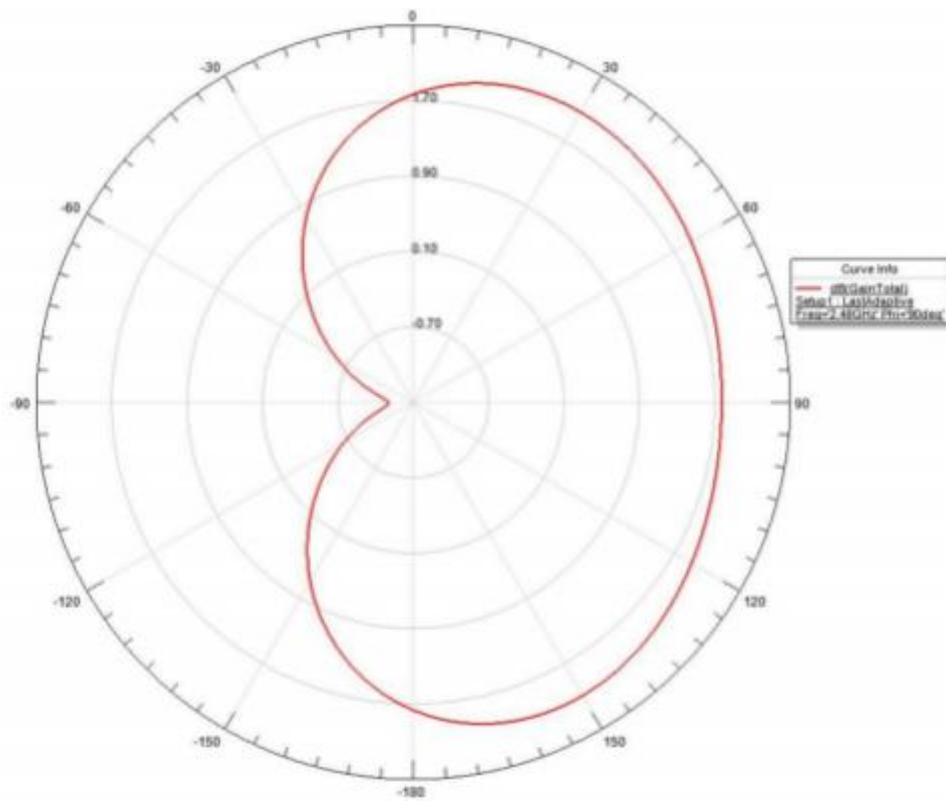


2.48GHz:

E plane:



H plane:



Eurofins TA Technology (Shanghai) Co., Ltd.
OTA Test Record

Project No.	Y2607A0826	Model	/
Client	Qinheng	IMEI/SN	/
Test Engineer	Paul	Test Date	2026/7/9
Standard	/		

Model(IMEI)	Test Item	Test State	Frequency (MHz)	Efficiency(%)	Gain(dBi)	Note
	Gain	FS	2400	52.75	1.43	A
			2410	53.39	1.58	
			2420	53.46	1.66	
			2430	53.58	1.72	
			2440	54.20	1.81	
			2450	54.13	1.86	
			2460	54.22	1.92	
			2470	54.64	1.98	
			2480	58.42	2.04	
			2490	58.36	2.09	
			2500	61.21	2.06	

Eurofins TA Technology (Shanghai) Co., Ltd.
OTA Test Record

Project No.	Y2607A0826	Model	/
Client	Qinheng	IMEI/SN	/
Test Engineer	Pual	Test Date	2026/7/9
Standard	/		

Model(IMEI)	Test Item	Test State	Frequency (MHz)	Efficiency(%)	Gain(dBi)	Note
	Gain	FS	2400	54.12	1.62	B
			2410	54.87	1.74	
			2420	55.03	1.83	
			2430	55.21	1.89	
			2440	56.05	1.97	
			2450	55.92	2.01	
			2460	56.18	2.05	
			2470	56.74	2.08	
			2480	60.15	2.09	
			2490	60.08	2.10	
			2500	62.96	2.07	