

Antenna Information

Item	Contents
Antenna Type	PCB Pattern Antenna
Antenna peak gain	-1.05dBi
Manufacturer	CHINA DRAGON TECHNOLOGY LIMITED
Address of manufacturer	B4 building , Haosan No.1 industry , nanpu road, shangliao community, xinqiao street, baoan district,Shenzhen China
Test laboratory	深圳市永昀科技有限公司(http://szwinwave.com/)
Antenna Length	7.0mm
Antenna Width	15.0mm



Model name: LCWB-009

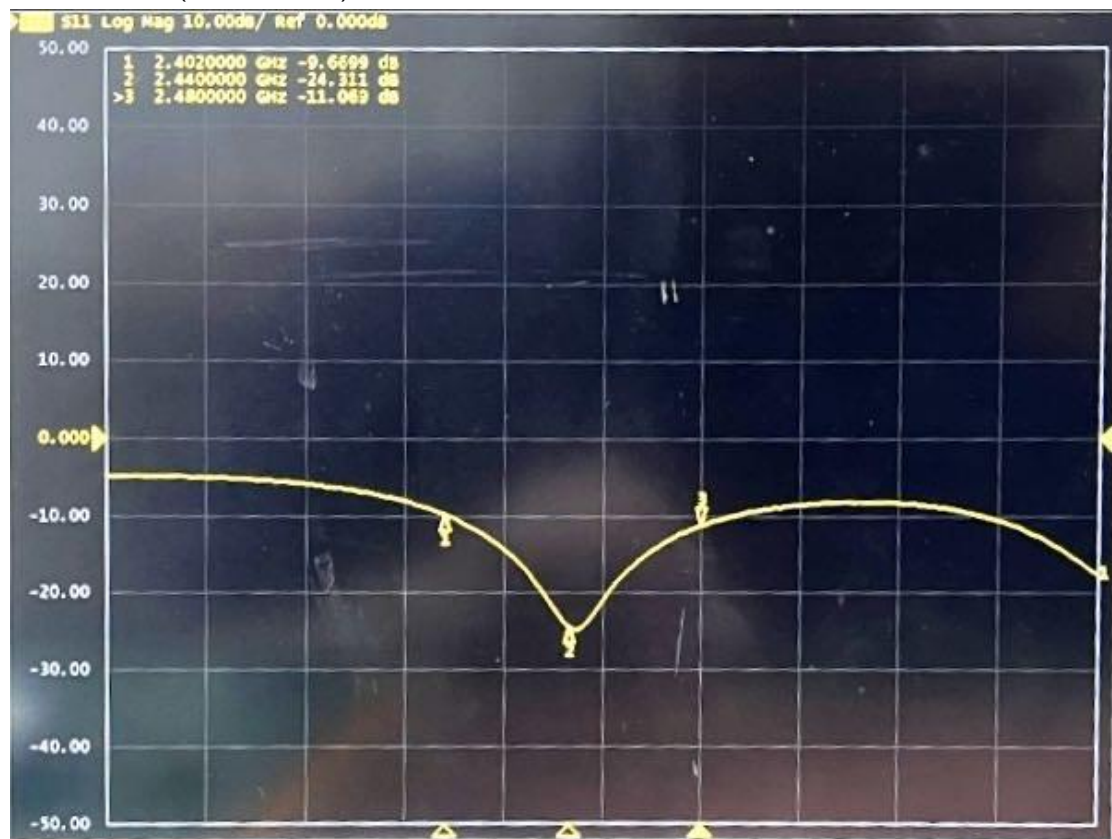
Antenna Measurement Data

Antenna Type		PCB Pattern Antenna	
Applications		WiFi & BLE	
Frequency Range1(TX)		2400MHz~2485MHz	
Frequency Range1(RX)		2400MHz~2485MHz	
Impedance		50Ω	
VSWR	TX	2400MHz	2485MHz
		<2.036	<2.036
	RX	2400MHz	2485MHz
		<2.036	<2.036
Peak Gain		-1.05dBi	

Passive Data (VSWR)



Passive Data(Return Loss)



Passive Data(Smith Chart)



Passive Data

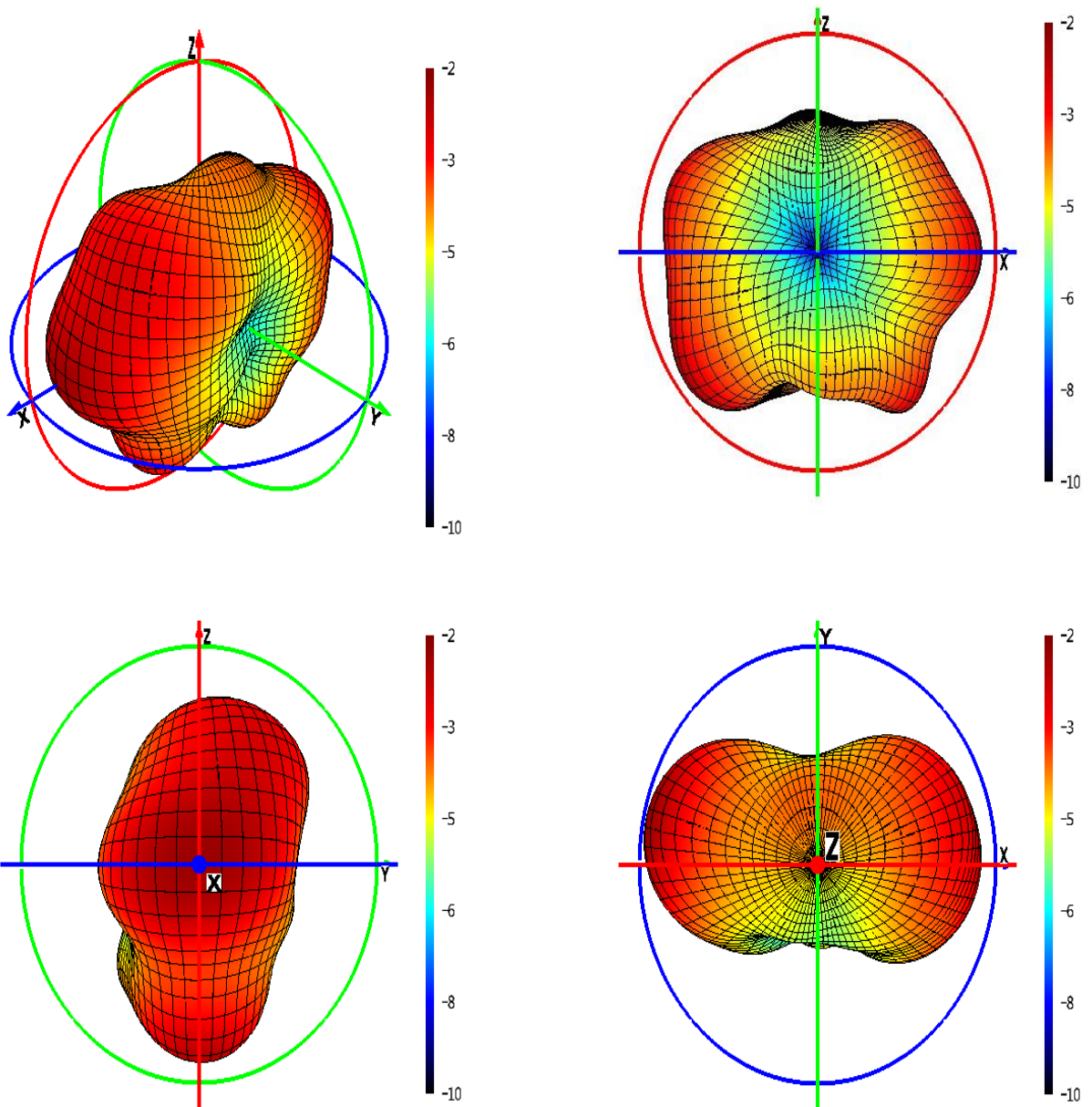
Summary (Gain, Efficiency)

frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益	CO Gain 主极化最大	CP Gain 交叉极化最	efficiency 效率(dB)	efficiency 效率(%)
2400	-2.08	-10.41	0	0	-4.03	39.53
2410	-2.23	-10.13	0	0	-4.06	39.22
2420	-1.51	-9.33	0	0	-3.76	42.12
2430	-1.39	-9.12	0	0	-3.81	41.63
2440	-1.93	-9.61	0	0	-3.88	40.88
2450	-1.34	-9.05	0	0	-3.79	41.78
2460	-1.24	-8.9	0	0	-3.87	41
2470	-1.45	-9.14	0	0	-3.82	41.54
2480	-1.05	-8.74	0	0	-3.74	42.27
2490	-1.5	-9.1	0	0	-4.2	38.01
2500	-1.24	-8.76	0	0	-3.96	40.14

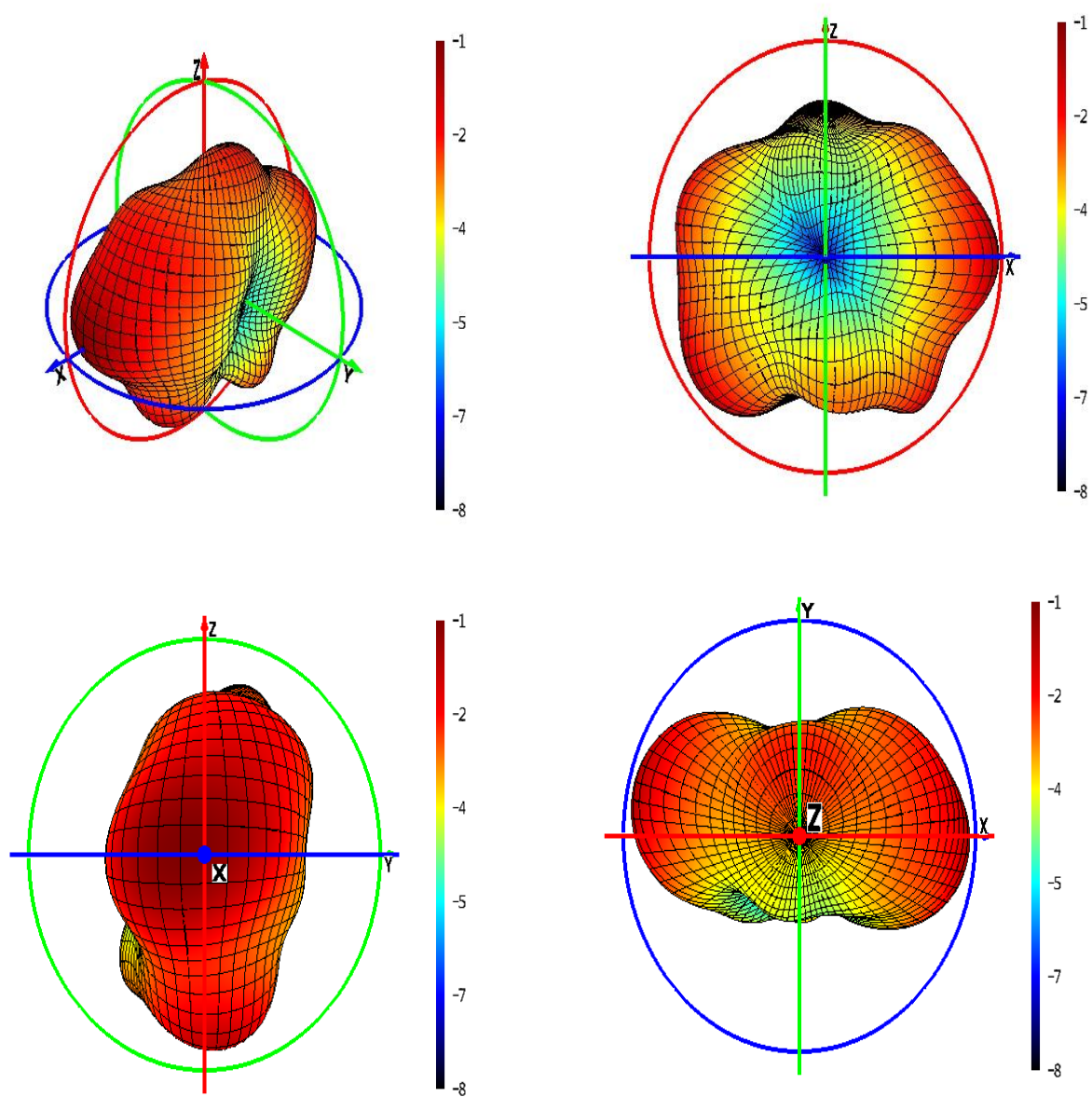
Passive Data

Radiated pattern

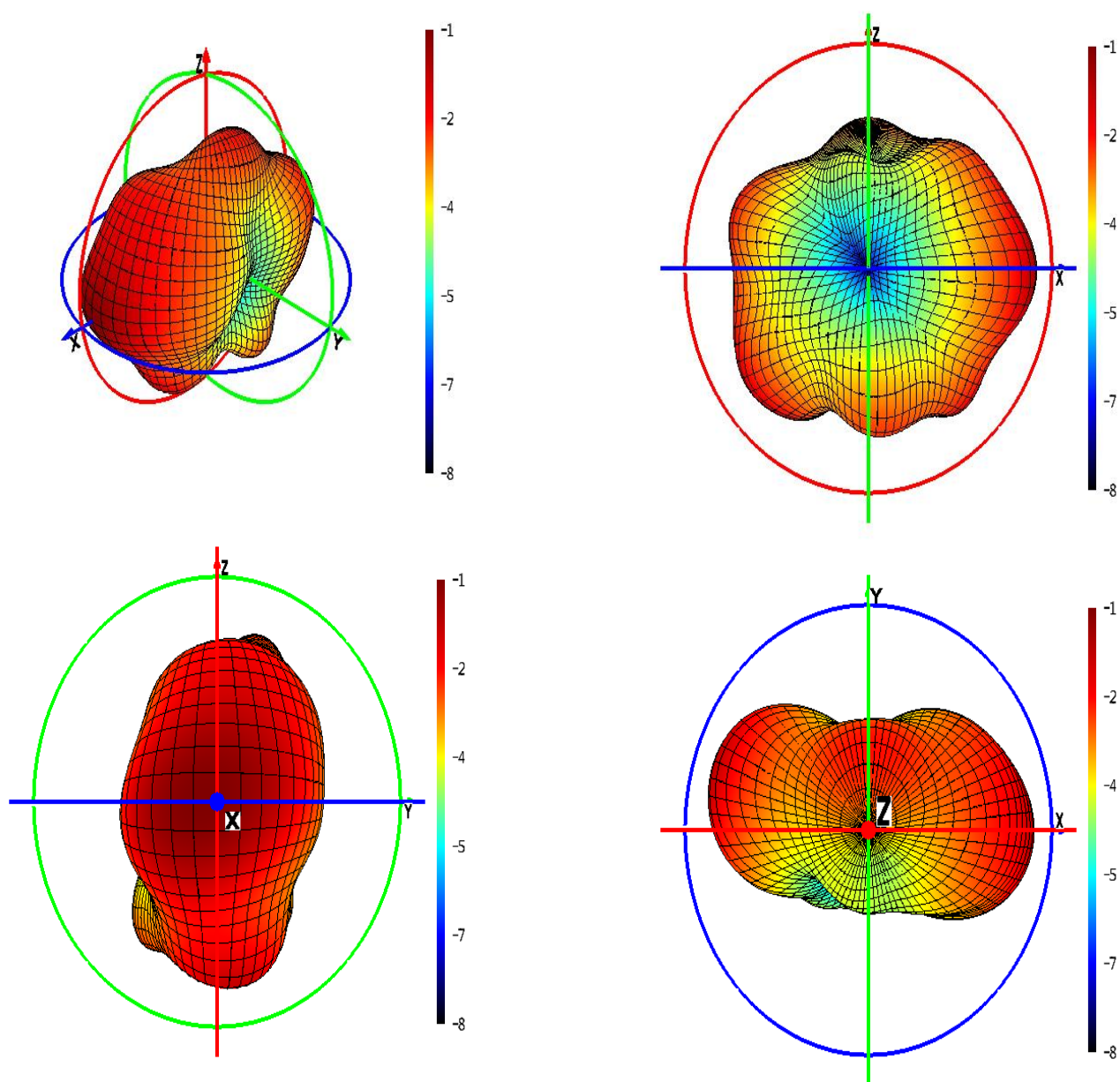
2400MHz



2440MHz

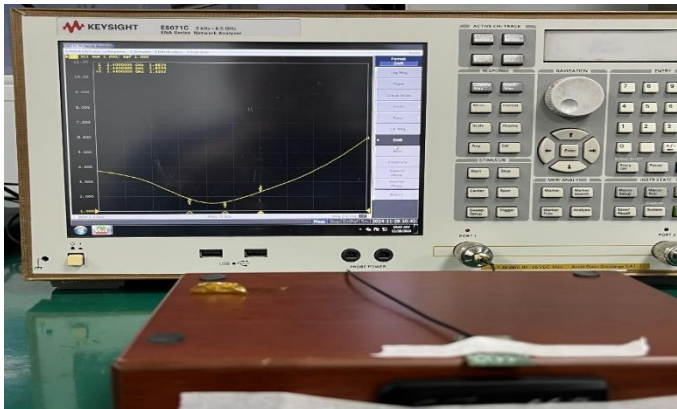
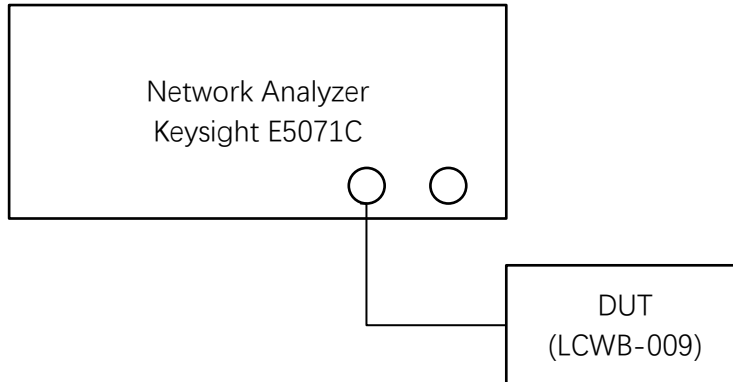


2480MHz



Test Setup

Test Setup for VSWR, Return Loss, Smith Chart



Test Setup for Gain, Efficiency, Radiated pattern
Anechoic chamber spec

- 1) Size: 6(L) m x 6(W) m x 6(H) m
- 2) Frequency range: 400 MHz to 8.5 GHz (Far Field)
- 3) Quiet Zone:
- 4) Path Length : 4.6 m
- 5) Type : Rectangular
- 6) System : FEITU (China)

Setup Photo

