



Shenzhen DBT Telecommunication Technology CO.,LTD

Antenna Testing Report

Client: Guangdong Welland Technology Co., Ltd.

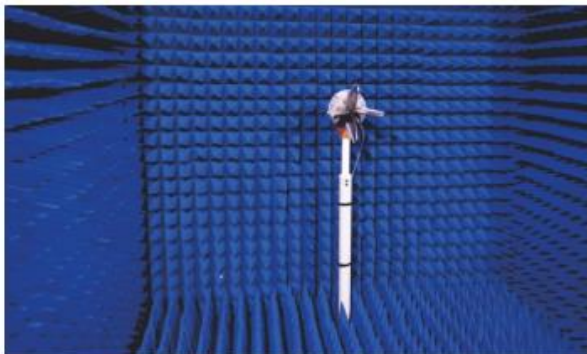
Project: FG2510LB

Antenna standard: BT

Manufacturer Address: Building 8, Nanshan Yungu,
Taoyuan Street, Nanshan District, Shenzhen, China

RF: 王志锋
TEL: 13823540870
TIME: 2019/11/09

1. Test Equipment

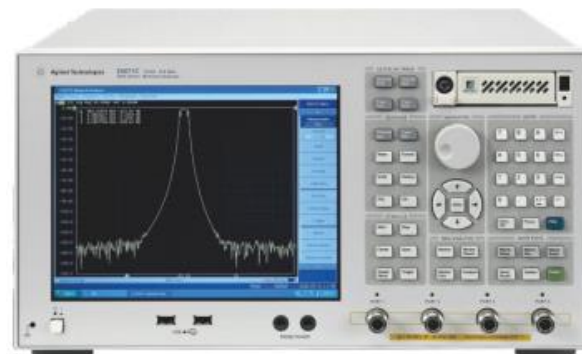


OTA-800

Brand: ETS✓

Frequency range: 370MHz-8.5GHz

Features: passive、active test; G net、C net、2G/3G/4G, WIFI and BT, TRP、TIS test.



5071C

Brand: Agilent✓

Frequency range: 9KHz-8.5GHz

Features: 2G/3G/4G/BT/WIFI antenna comprehensive passive test.



8960

Brand: Agilent

Frequency range: 292MHz-2700GHz

Features: 2G/3G active test.



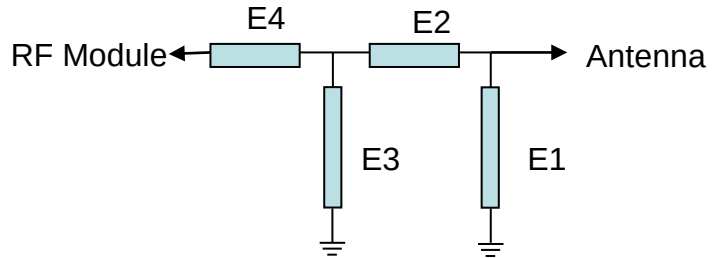
CMW500

Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

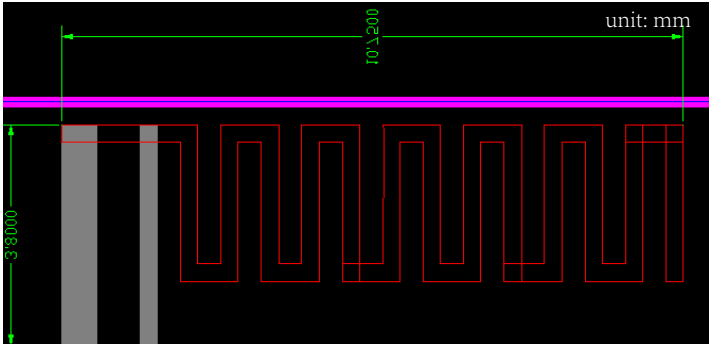
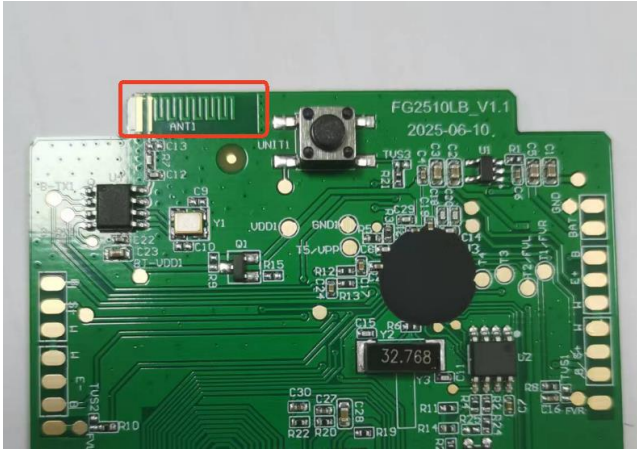
Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

2. Matching circuit



Element	MAIN	GPS/WIFI /BT	AUX
E1(0201)	N/A		
E2(0201)	10pF		
E3(0201)	1pF		
E4(0201)	0Ω		

3.Antenna assembly position



antenna position

antenna position

4.Electrical Parameter



Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤7.0
Input Impedance(Ω)	50
Gain(dBi)	0.89
Polarization(°)	vertical
Max power(W)	10
Antenna Type	PCB Antenna
Working Temperature(°C)	-40~+80

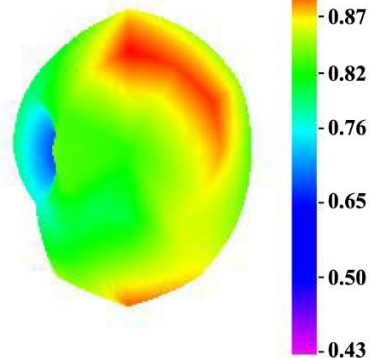
5. Antenna Passive Data



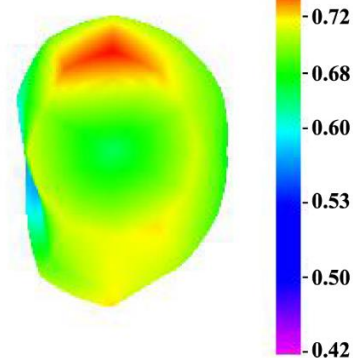
6.Antenna Gain/Efficiency/3D Apple Chart

Freq (MHz)	Effi (%)	Gain (dBi)
2400	16	0.89
2410	13.6	0.87
2420	17.7	0.86
2430	14.5	0.85
2440	14.2	0.79
2450	11.8	0.78
2460	16.3	0.77
2470	10.1	0.76
2480	10	0.69
2490	7.3	0.61
2500	14.2	0.67

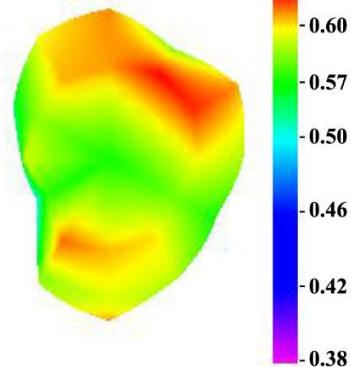
2400.000MHz



2450.000MHz



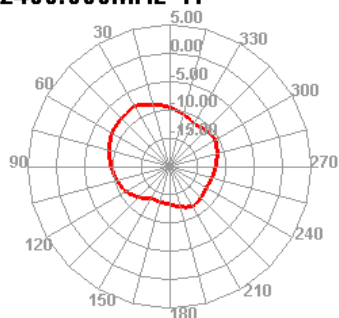
2500.000MHz



7.Antenna Direction Map



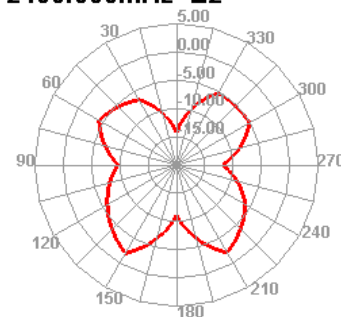
2400.000MHz H



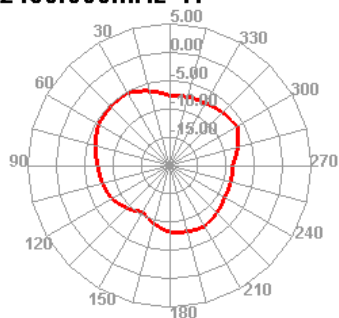
2400.000MHz E1



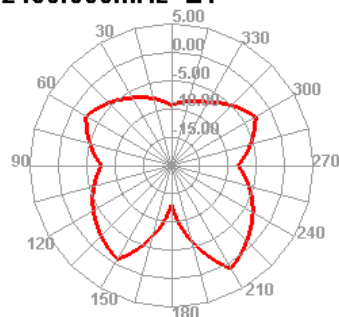
2400.000MHz E2



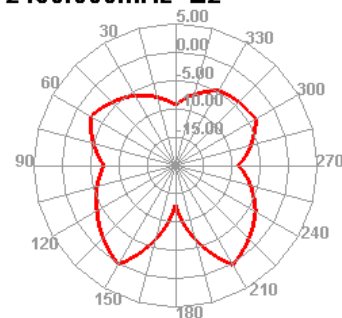
2450.000MHz H



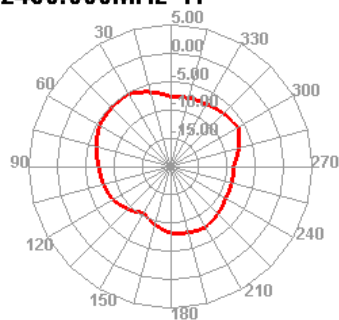
2450.000MHz E1



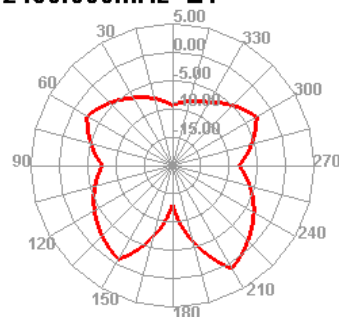
2450.000MHz E2



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

