

Antenna Testing Report

Client: Guangdong Welland Technology Co., Ltd.

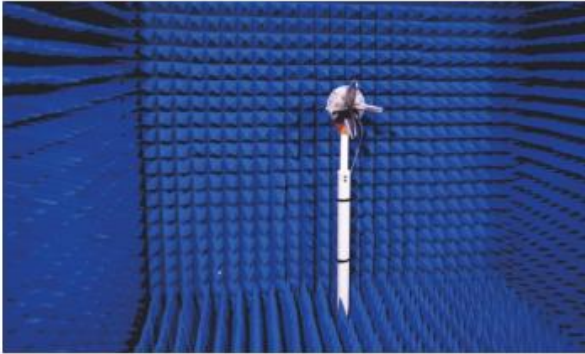
Project: FG2317WB

Antenna standard: BT

Manufacturer: Shenzhen DBT Communications Equipment Co.,Ltd.

Address: 8th Building, Phase 2 of Nanshan Cloud Valley,
Taoyuan Street, Nanshan District, Shenzhen, China

1. Test Equipment

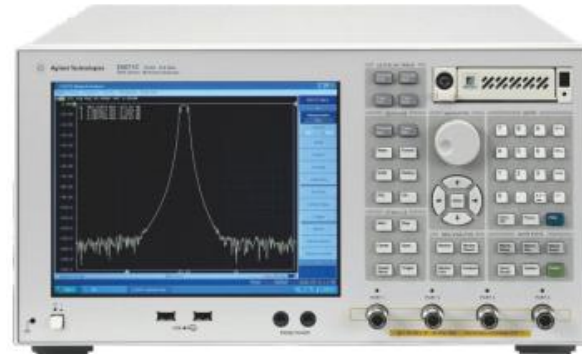


OTA-800

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.



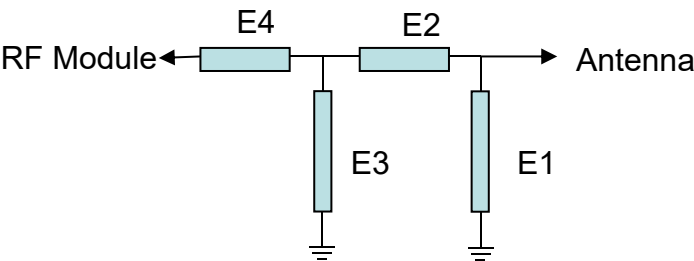
CMW500

Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

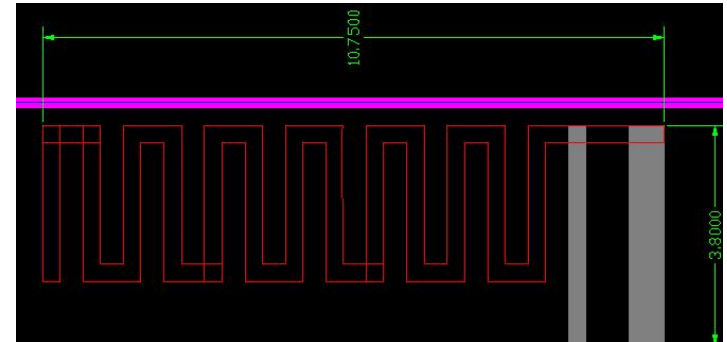
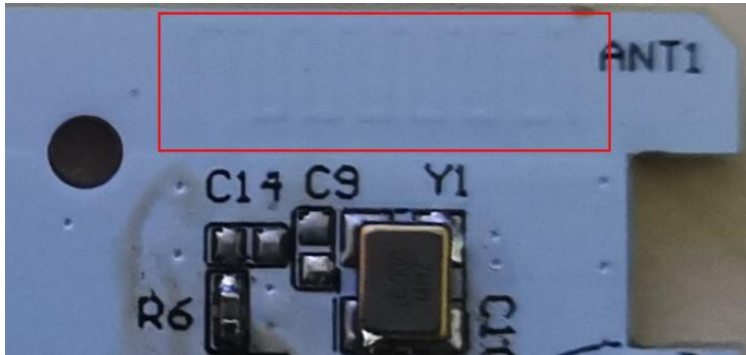
Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

2. Matching circuit



Element	MAIN	GPS/WIFI /BT	AUX
E1(0201)	N/A		
E2(0201)	1.2pF		
E3(0201)	10pF		
E4(0201)	0Ω		

3. Antenna assembly position



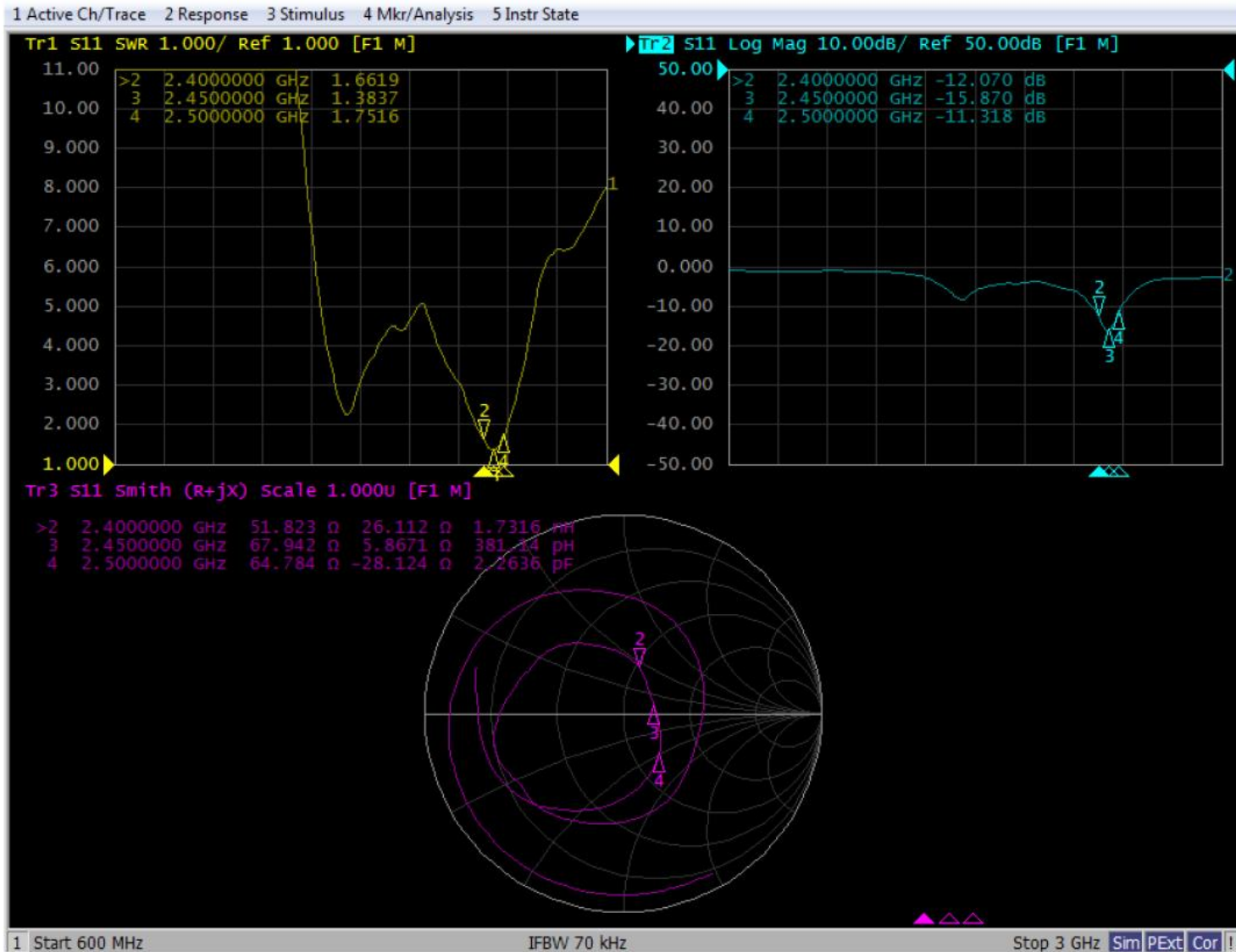
antenna position

antenna position

4.Electrical Parameter

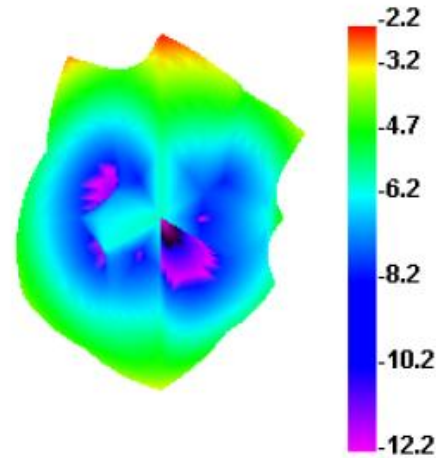
Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤ 7.0
Input Impedance(Ω)	50
Gain(dBi)	-2.17
Polarization(°)	vertical
Max power(W)	10
Antenna Type	PCB Antenna
Working Temperature($^{\circ}\text{C}$)	-40~+80

5. Antenna Passive Data

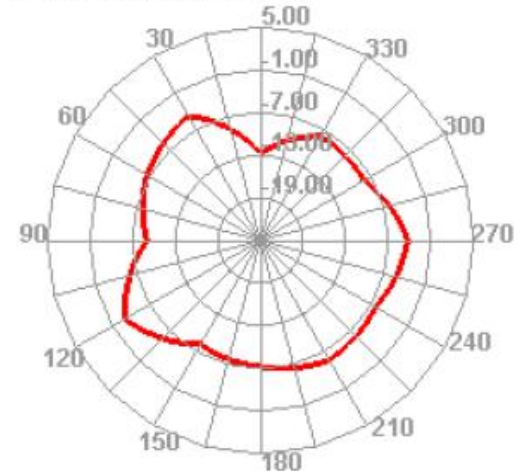


Freq (MHz)	Effi (%)	Gain (dBi)
2400	28.05	-2.89
2410	25.82	-3.16
2420	25.95	-2.78
2430	25.09	-2.76
2440	26.26	-2.55
2450	25.65	-2.17
2460	24.95	-2.53
2470	25.69	-2.48
2480	25.23	-2.36
2490	25.56	-2.67
2500	24	-3.58

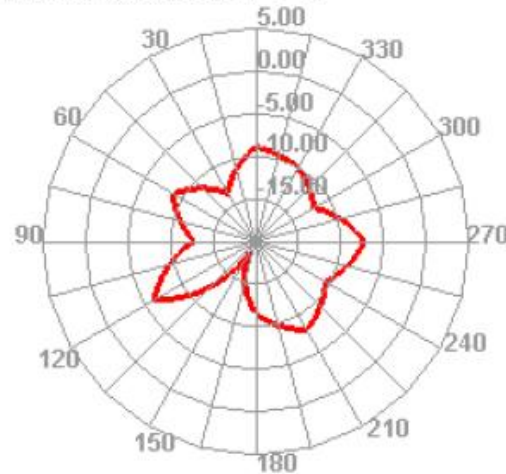
2450.000MHz



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

