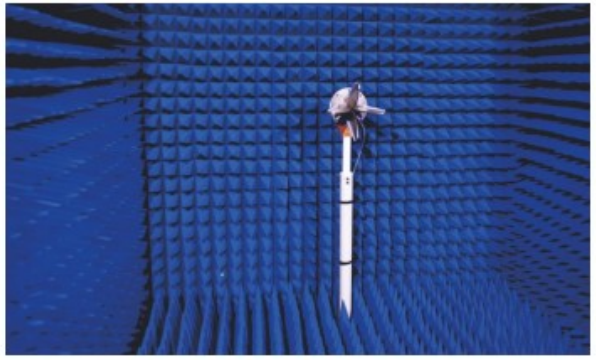
Shenzhen DBT Telecommunication Technology CO.,LTD
Antenna Testing Report

Client： Guangdong Welland Technology Co., Ltd.

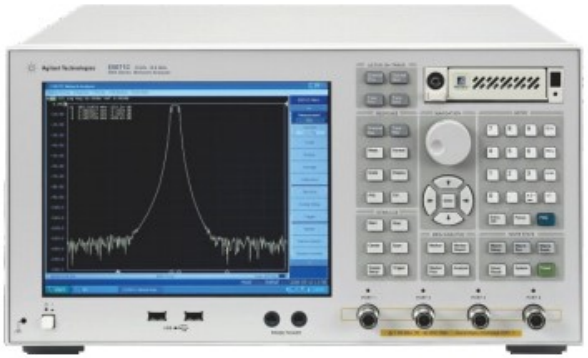
Project： KN2512LB

Antenna standard： BT

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.

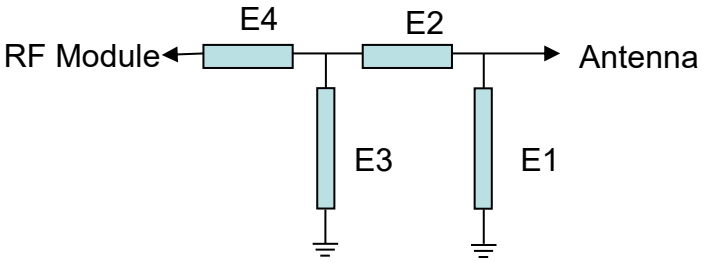


5071C
Brand：Agile
Frequency range：9KHz-8.5GHz
Features：2G/3G/4G/BT/WIFI antenna comprehensive passive test。

8960
Brand：Agilent
Frequency range：292MHz-2700GHz
Features：2G/3G avtive test。

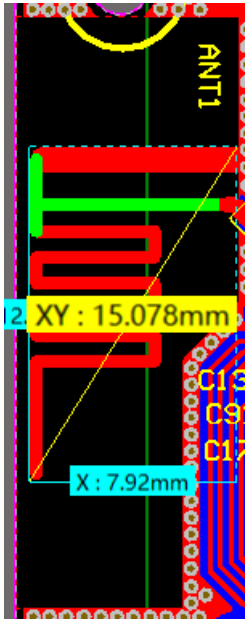
CMW500
Brand：Rohde & Schwarz
Frequency range：70KHz-6GHz
Features：2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test。

2. Matching circuit



Element	MAIN	GPS/WIFI /BT	AUX
E1(0402)	N/A		
E2(0402)	1.5pF		
E3(0402)	N/A		
E4(0402)	0R		

3.Antenna assembly position

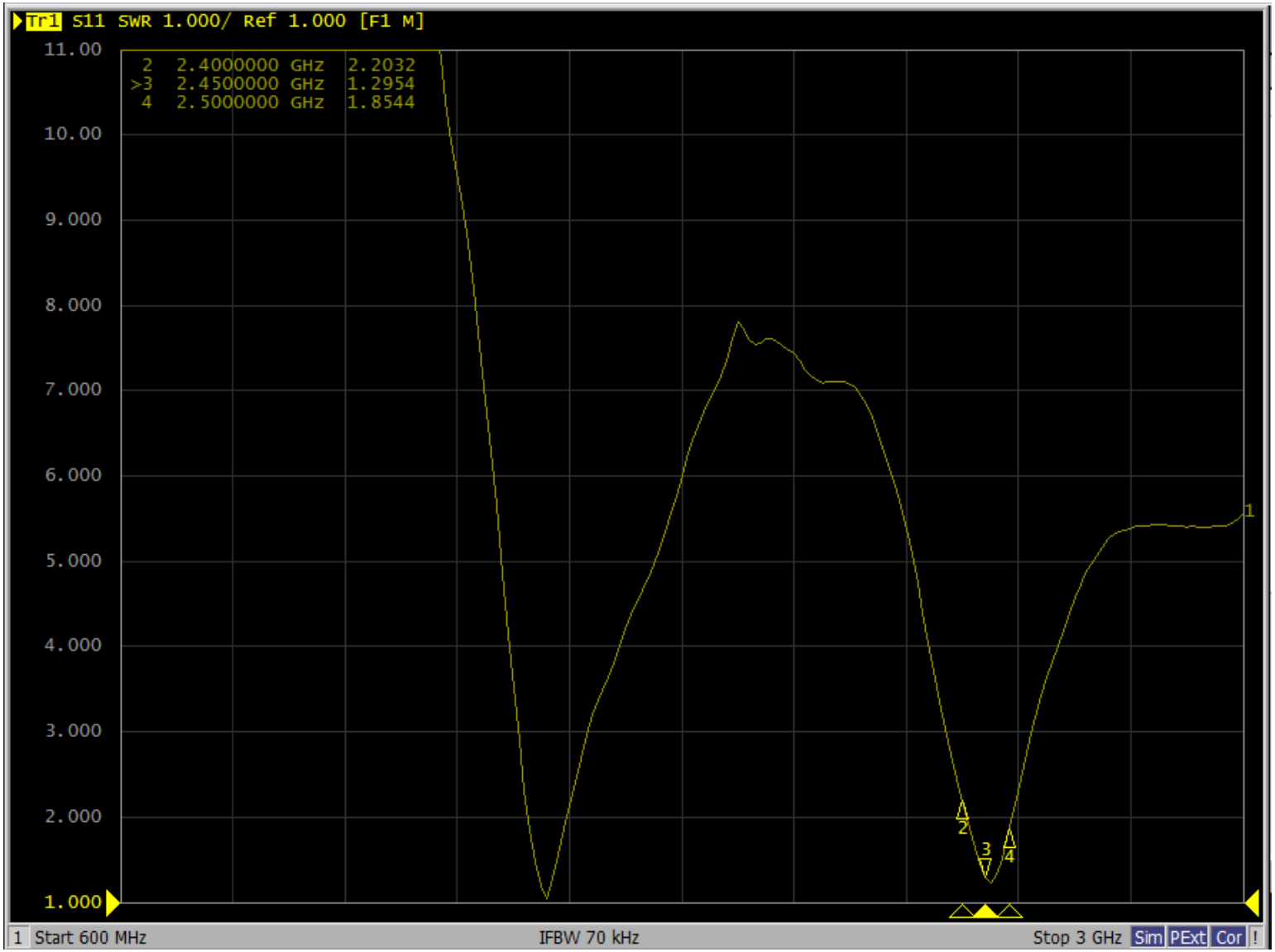


antenna position

4.Electrical Parameter

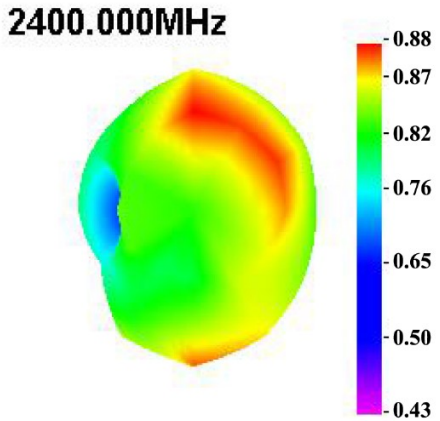
Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤3.0
Input Impedance(Ω)	50
Gain(dBi)	-0.61
Polarization(°)	vertical
Max power(W)	10
Antenna Type	PCB Antenna
Working Temperature(℃)	-40~+80

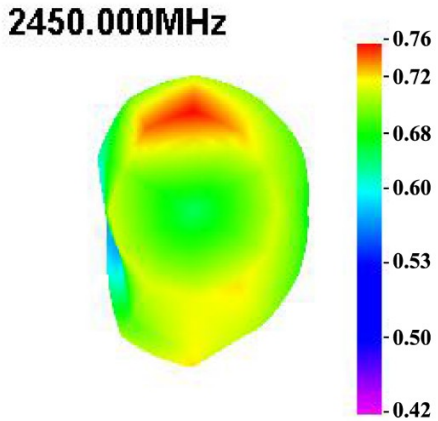
5.Antenna Passive Data

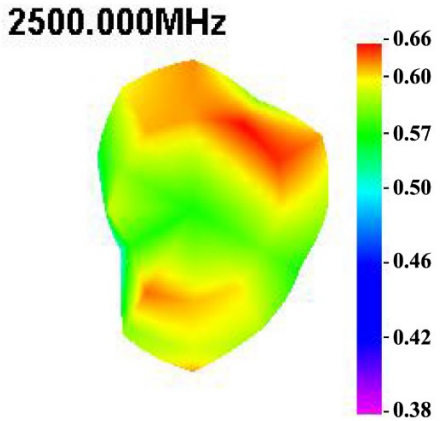


6.Antenna Gain/Efficiency/3D Apple Chart

Freq (MHz)	Effi (%)	Gain (dBi)
2400	21.6	-0.88
2410	22.36	-0.87
2420	22.7	-0.86
2430	23.45	-0.85
2440	23.42	-0.79
2450	24.18	-0.76
2460	23.63	-0.77
2470	23.21	-0.76
2480	24	-0.69
2490	24.73	-0.61
2500	25.42	-0.66

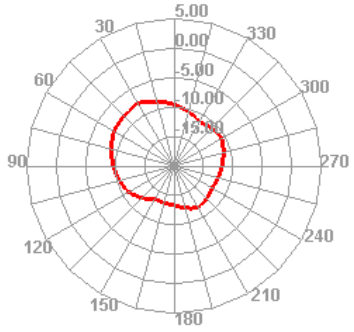






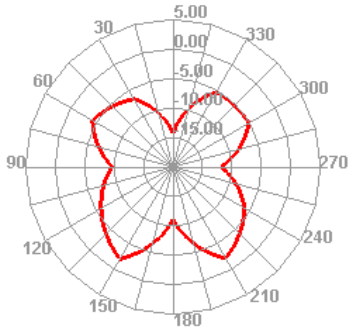
7.Antenna Direction Map

2400.000MHz H

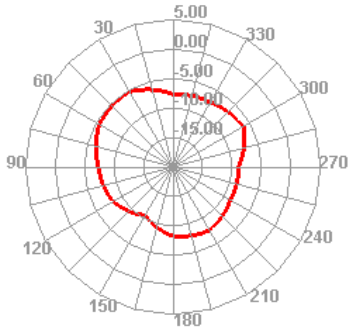


2400.000MHz E1

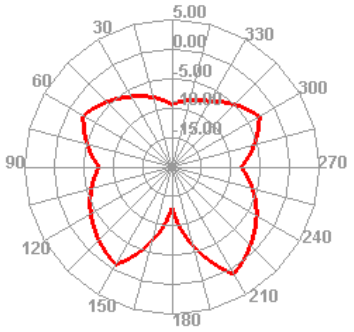
2400.000MHz E2



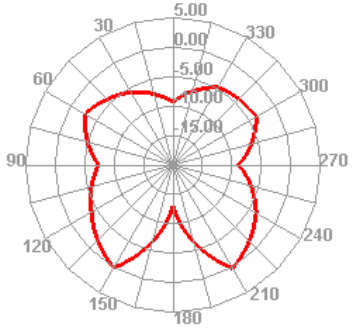
2450.000MHz H



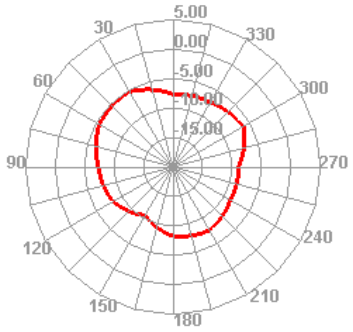
2450.000MHz E1



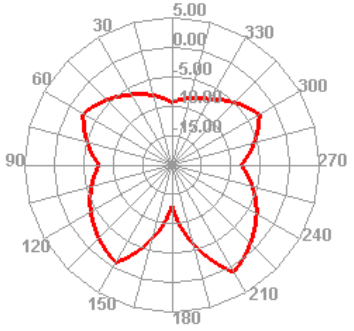
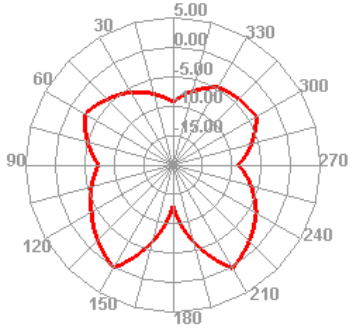
2450.000MHz E2



2450.000MHz H



2450.000MHz E1



2450.000MHz E2