

Shenzhen DBT Communications Equipment Co.,Ltd.

Antenna Testing Report

Manufacturer: Shenzhen DBT Communications Equipment Co.,Ltd.

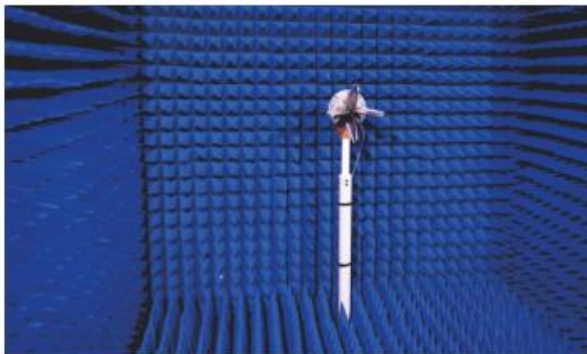
Address: No. 505, Building 8, Nanshan Yungu Phase II, Taoyuan Street, Nanshan District, Shenzhen,Guangdong, china

Client: Guangdong Welland Technology Co., Ltd.

Project: ER308UWB

Antenna standard: BT

1. Test Equipment

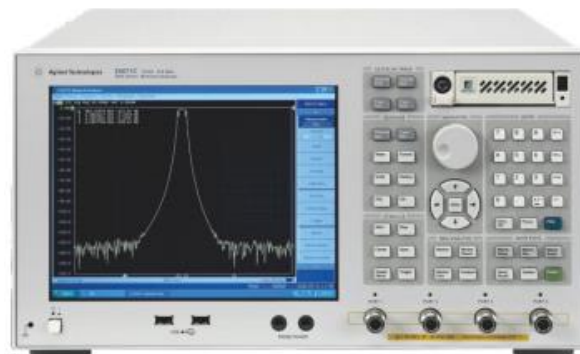


OTA-800

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: 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.



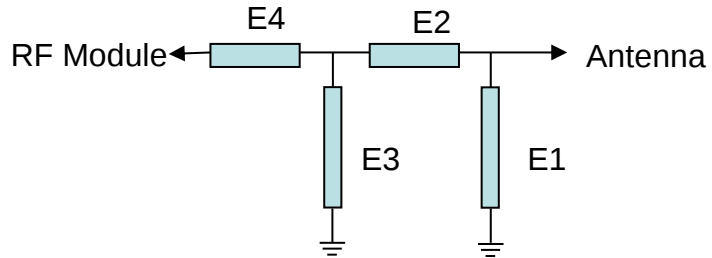
CMW500

Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

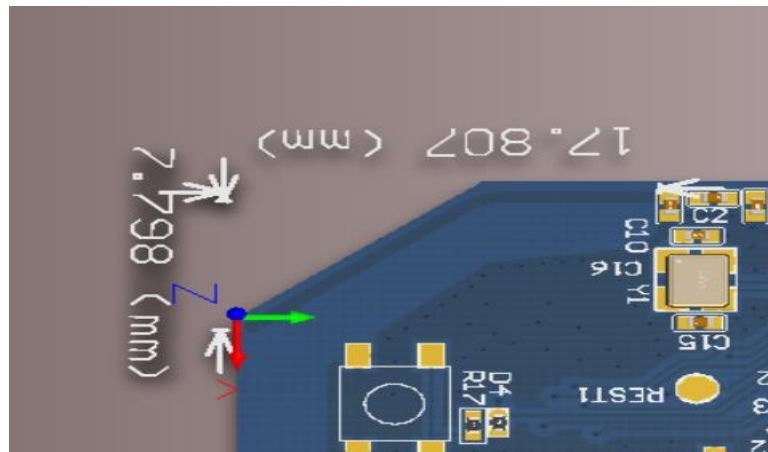
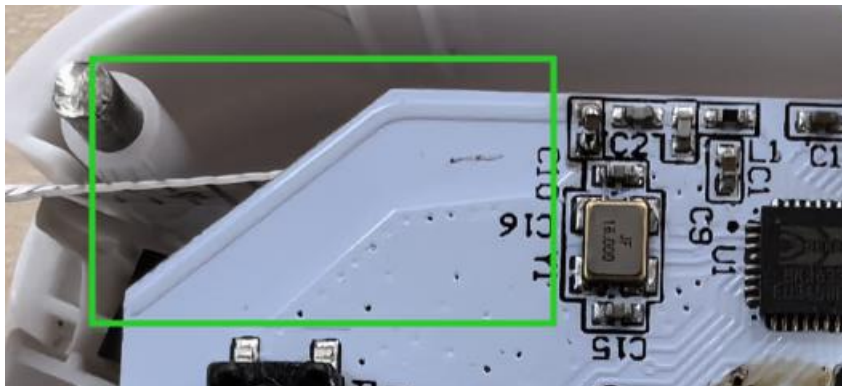
Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

2. Matching circuit



Element	MAIN	GPS/WIFI /BT	AUX
E1(0402)	8.2nH		
E2(0402)	0.5pF		
E3(0402)	0.5pF		
E4(0402)	0Ω		

3. Antenna assembly position



4.Electrical Parameter



Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤2.0
Input Impedance(Ω)	50
Gain(dBi)	1.47
Polarization(°)	vertical
Max power(W)	10
Antenna Type	PCB Antenna
Working Temperature(°C)	-40~+80

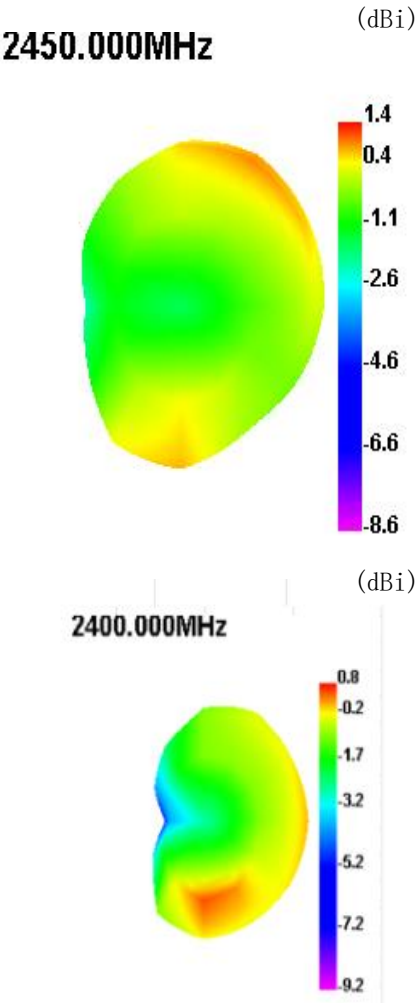
5. Antenna Passive Data



6.Antenna Gain/Efficiency/3D Apple Chart



Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.35	0.8
2410	56.07	0.79
2420	55.26	0.58
2430	57.87	0.86
2440	60.3	1.33
2450	60.36	1.42
2460	56.09	1.2
2470	57.84	1.41
2480	61	1.41
2490	56.96	1.14
2500	63.58	1.47

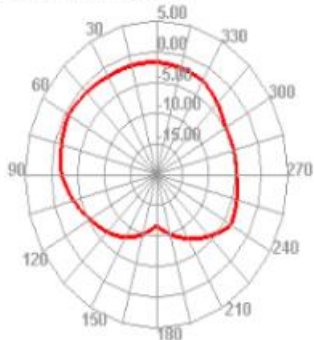


7.Antenna Direction Map

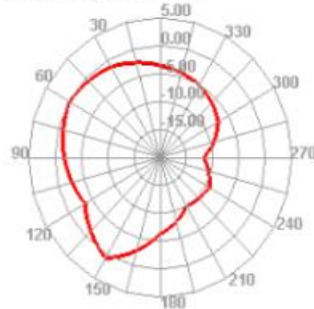
(dBi)



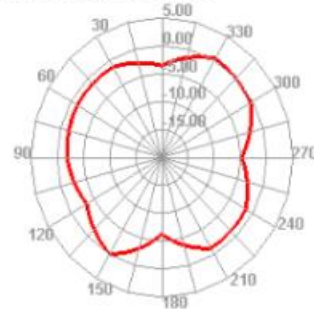
2400.000MHz H



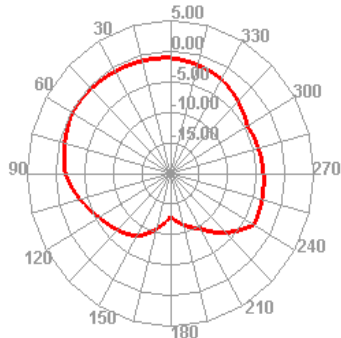
2400.000MHz E1



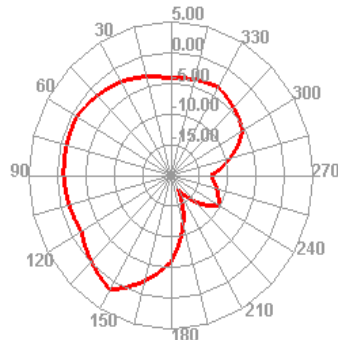
2400.000MHz E2



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

