

Antenna specification for approval

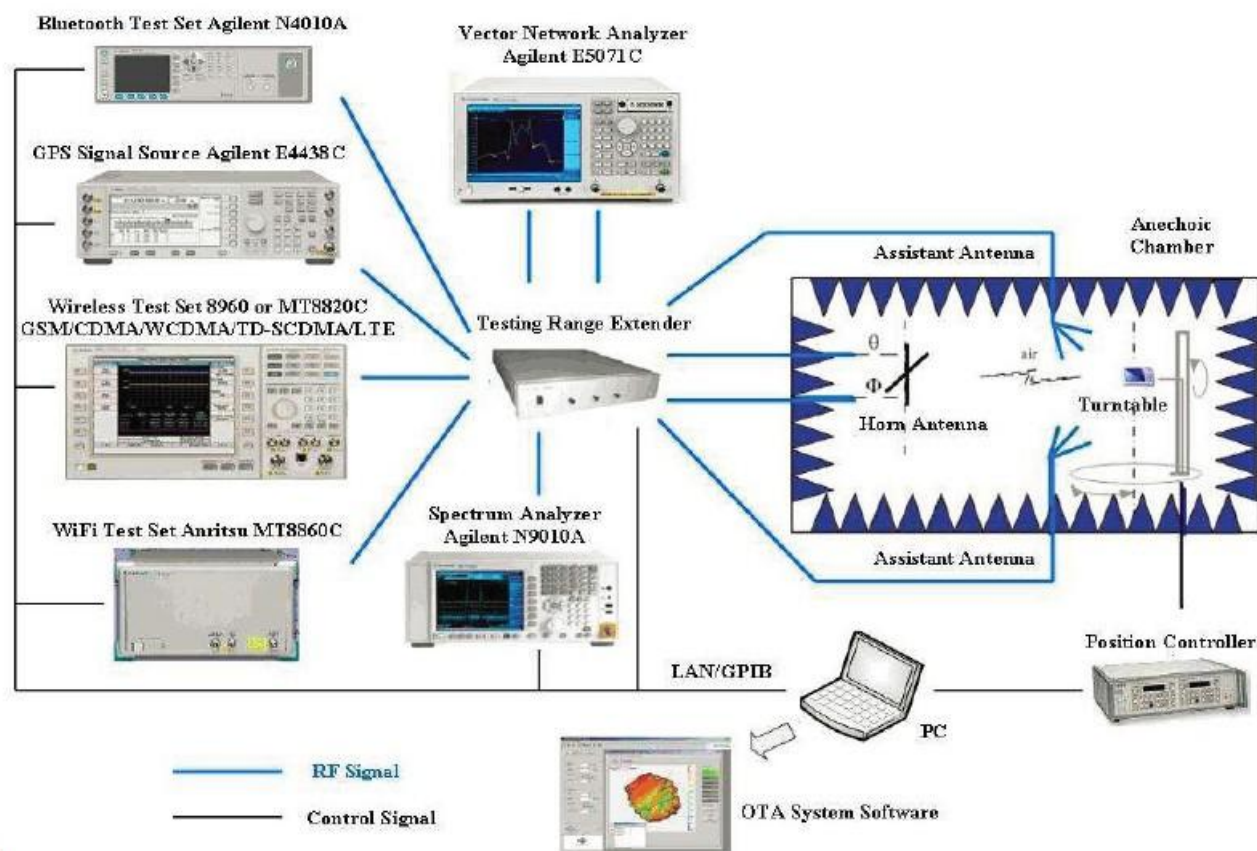
Customer name			
Model			
Antenna band	2. 4GHZ		
Antenna type	FPC Antenna		
Antenna material	FPC		
FPC color	black		
Material number	BL015-V1-FPC		
Baren accepted the signature		Client acknowledges signature	
structure		Purchase	
QC		structure	
radio frequency		engineering	
To examine		QC	
date	Seal area	date	Seal area

7 / F, Building F, Zhichuang Park, Tong 'an, Gushu, Shenzhen

catalogue

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一: Device support & can test antenna types



二: summarize

(1)Antenna performance

1. This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of BT antenna.
2. Antenna shape size: Meet the requirement of MID
3. Antenna band: 2400MHz~2500MHz
4. Antenna material: Antenna material meet the requirement of MID
5. Adhesive performance: Adhesive performance meet the requirement of MID
6. Antenna performance meet the spec below:

Description	2. 4GHZ~2. 5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	NA
Description	BT antenna
Material	FPC
Coaxial Cable	NA
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

≡:Match circuit diagram & machine

picture & antenna picture

(2) Machine picture & antenna picture

1: gold plating; 3: Surface black matte ink; 4: Meet the latest environmental requirements: RoHS&REACH; 5: The whole board shipment;

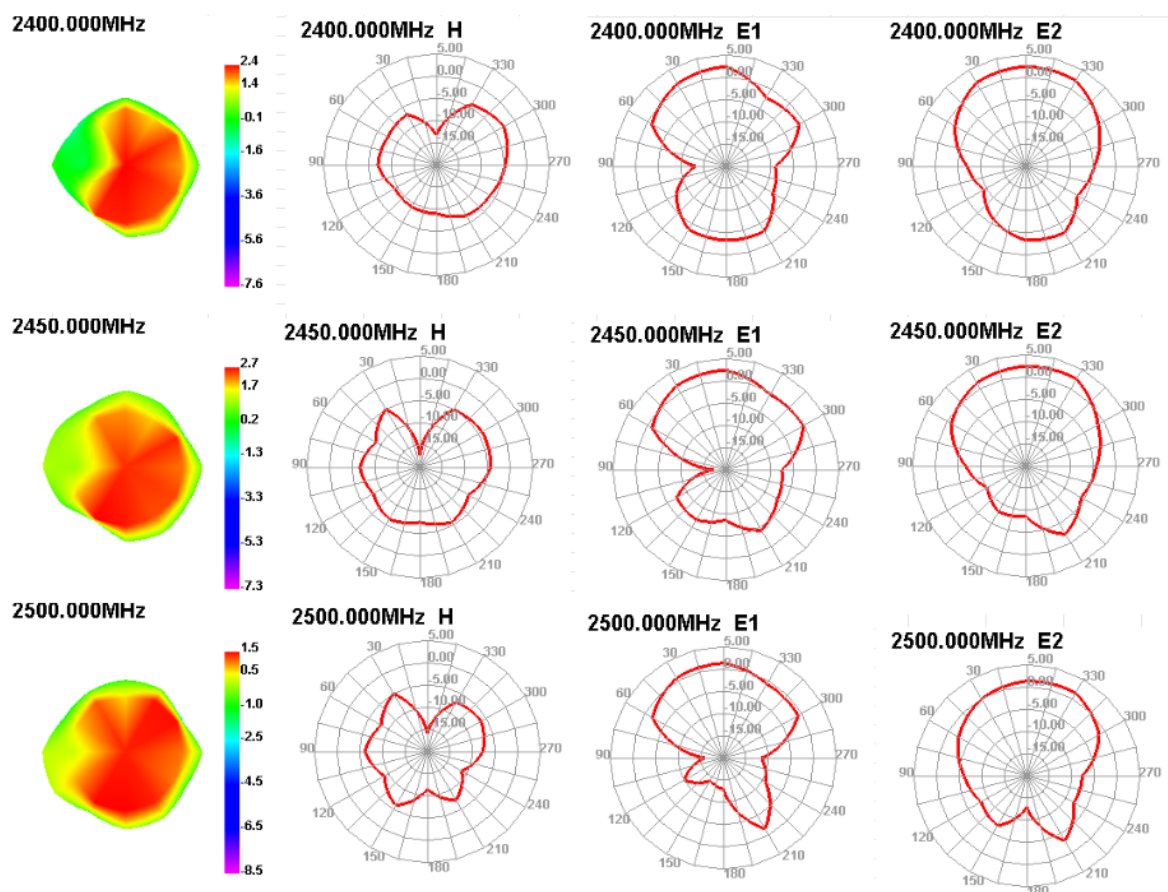
四:Antenna Standing Wave Ratio & Antenna Efficiency (VSWR)



Frequency (MHz)	VSWR
2400	1.29
2440	1.02
2480	1.38

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	47.6	-3.22	2.36	0.21
2410	41.94	-3.77	1.79	-0.36
2420	44.56	-3.51	2.06	-0.09
2430	50.2	-2.99	2.66	0.51
2440	40.53	-3.92	1.71	-0.44
2450	50.36	-2.98	2.69	0.54
2460	42.12	-3.75	2.01	-0.14
2470	43.69	-3.6	2.06	-0.09
2480	47.52	-3.23	2.3	0.15
2490	36.44	-4.38	1.03	-1.12
2500	41.78	-3.79	1.48	-0.67

五:3D pattern



六:Structural drawing

