

天线规格书
Antenna specification for approval

客户名称 Customer name			
机型 Model			
天线频段 Antenna band	2. 4GHZ		
天线类型 Antenna type	X9-V2-FPC		
天线材质 Antenna material	FPC		
FPC 颜色 FPC color	black		
料号 Material number	X9-V2-L/R-FPC		
厂商承认签章 Baren accepted the signature		客户承认签章 Client acknowledges signature	
结构 structure		采购 Purchase	
品质 QC		结构 structure	
射频 radio frequency		工程 engineering	
审核 To examine		品质 QC	
日期 date 2024. 12. 13	盖章区 Seal area	日期 date 2024. 12. 13	盖章区 Seal area

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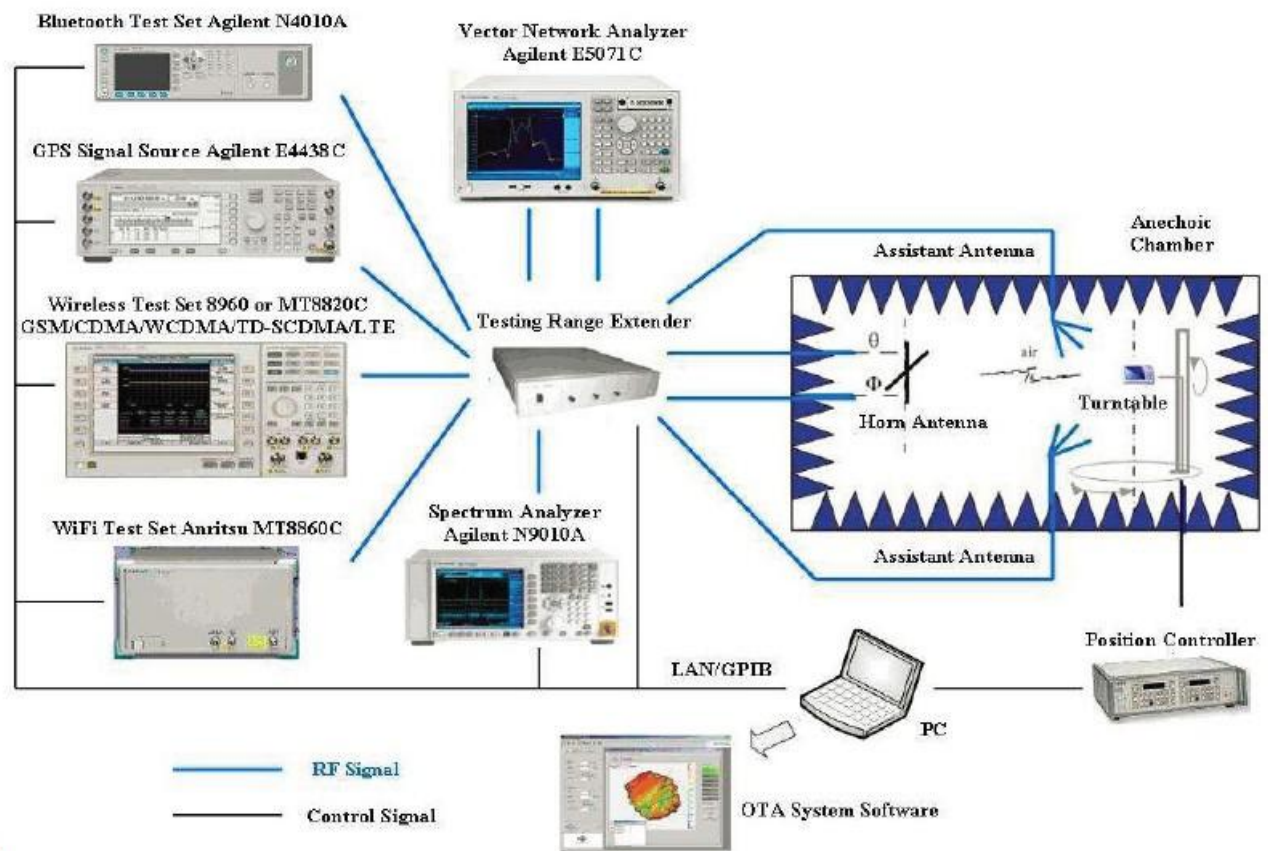
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一: Device support & can test antenna types



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:

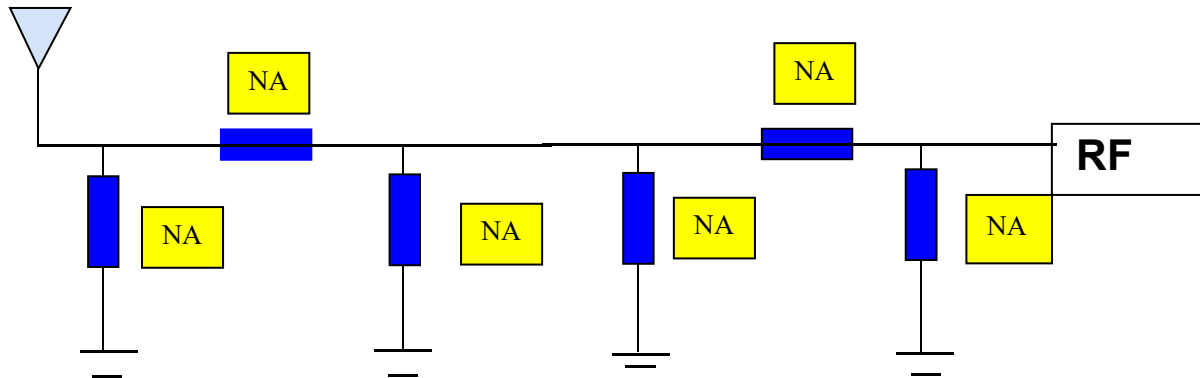
Description	2. 4GHZ~2. 5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(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

三: Match circuit diagram & machine

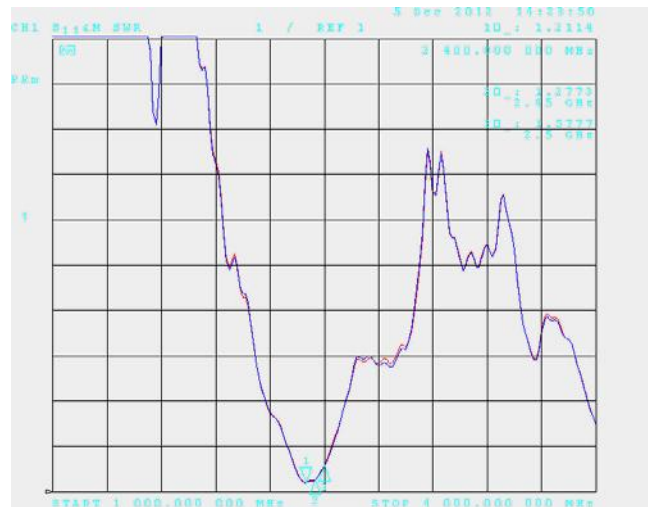
picture & antenna picture



(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;

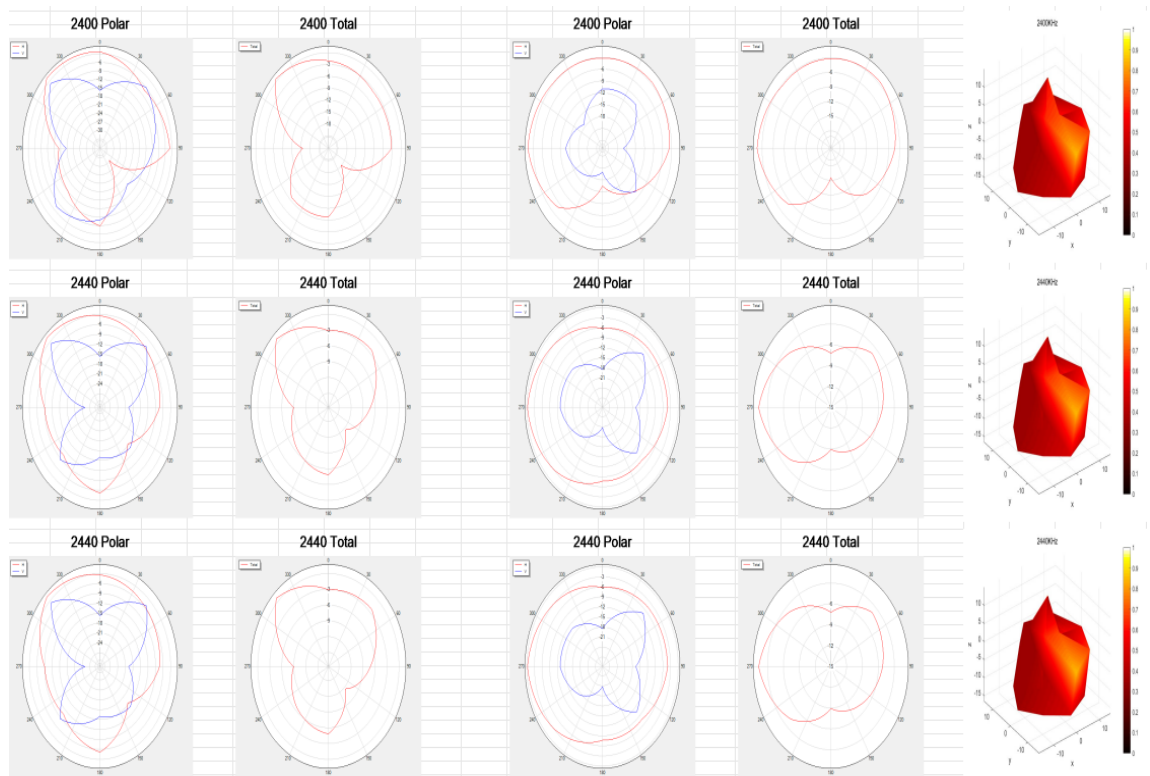
四:Antenna Standing Wave Ratio & Antenna Efficiency (VSWR)



Frequency (MHz)	VSWR
2400	1.25
2450	1.18
2500	1.16

Frequency	Effic	Percen	Gain
2400	-3.79	41.83%	1.35
2440	-3.98	40%	2.01
2480	-3.71	42.56%	3

五:3D pattern



六:Structural drawing

