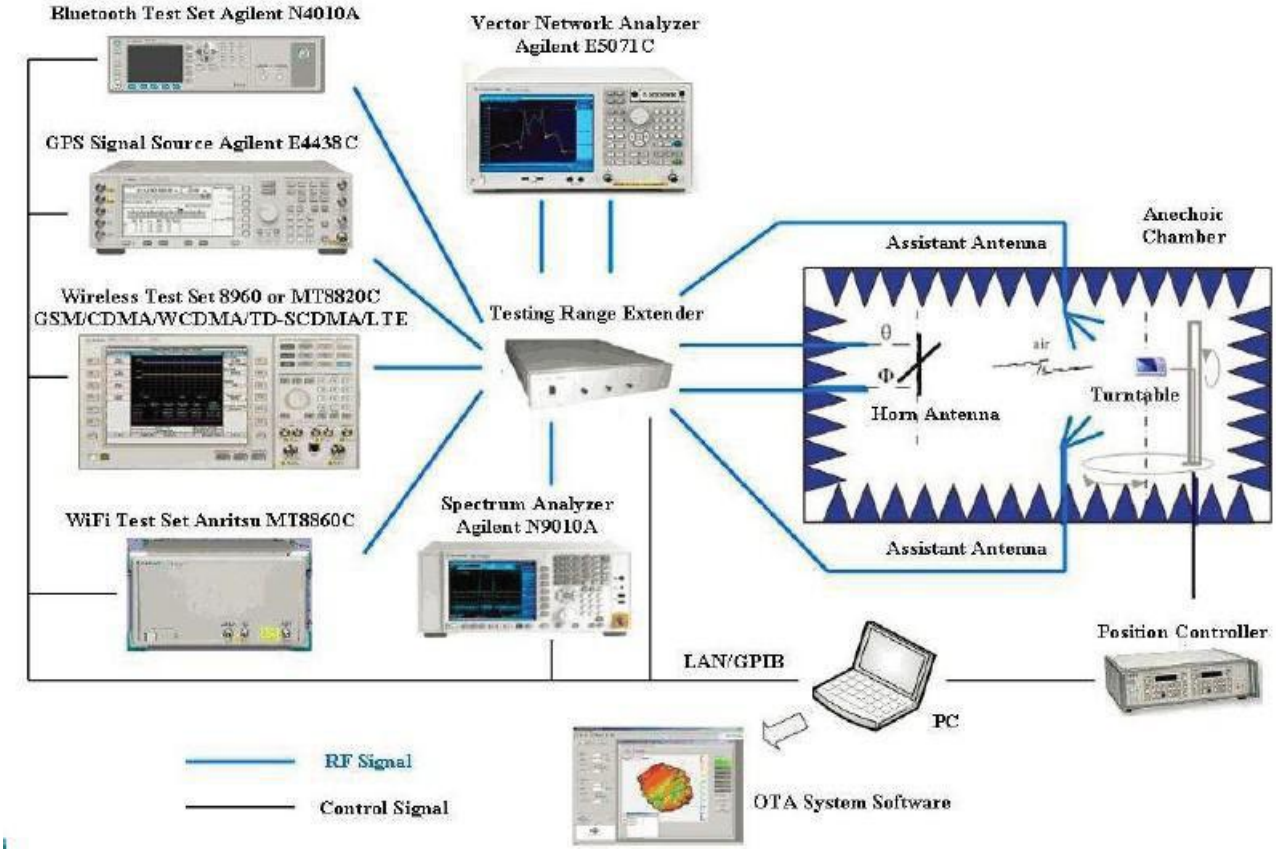
天 线 规 格 书
Antenna specification for approval

客户名称 Customer name	Shenzhen Jianrong Technology Co., Ltd
机型 Model	VL001 VLOG001 PT001
天线频段 Antenna band	2.4-5.8
天线类型 Antenna type	X9-V2-FPC
天线材质 Antenna material	FPC+IPEX generation terminal cable
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

Contents

1:Device support & can test antenna types:



2: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:

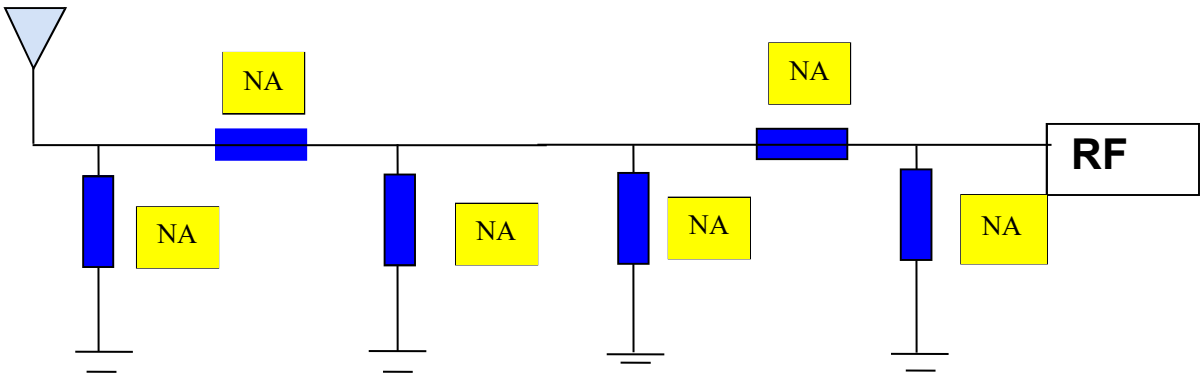
Description	2.4GHZ~2.5GHz	Units
VSWR	≤2.0	
Average Antenna Gain	≥-4.5	dB
Antenna Efficiency	≥40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

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

3:Match circuit diagram & machine:

(1) Picture & Antenna picture



(2) Machine picture & antenna picture

1: gold plating;

2: Surface black matte ink;

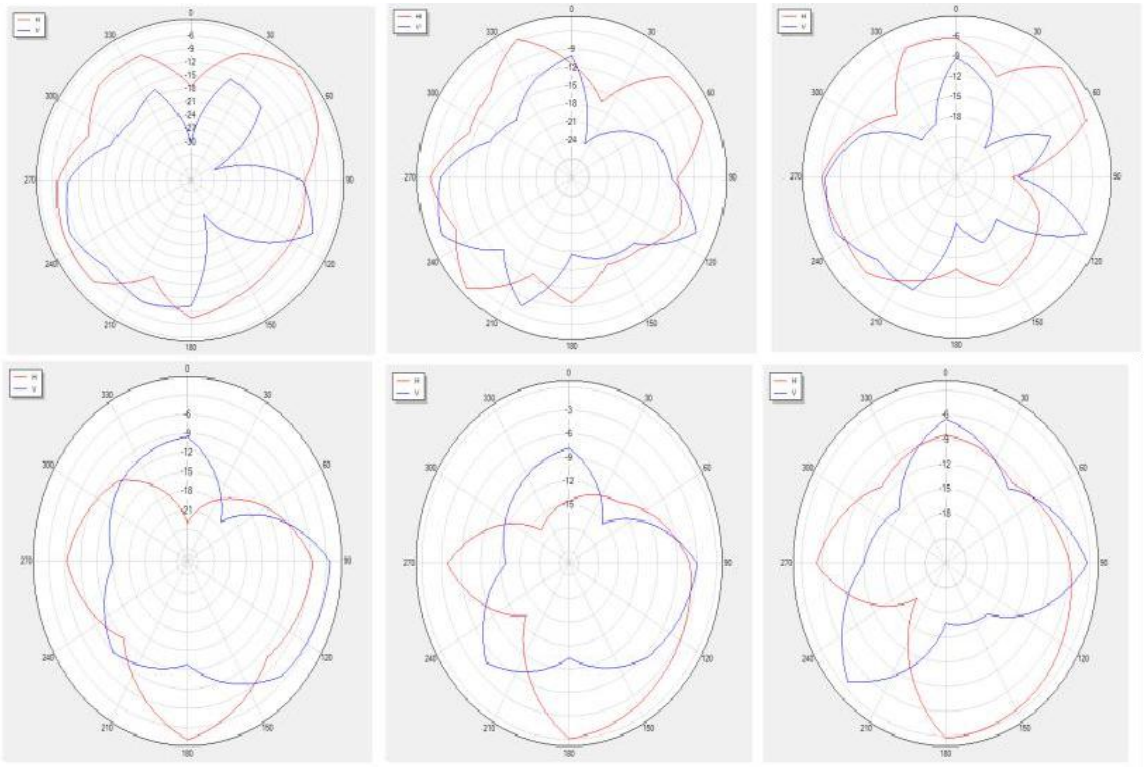
3: Meet the latest environmental requirements: RoHS&REACH;

4: The whole board shipment;

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

	2.4G					5.8G		
Frequency	Effic	Percen	Gain		Frequency	Effic	Percen	Gain
2400	-5.7	26.94%	-0.14		5000	-4.2	38.06%	1.38
2410	-5.7	26.9%	-0.51		5100	-3.77	41.93%	2.18
2420	-5.85	26.02%	-0.39		5200	-3.86	41.09%	2.42
2430	-5.91	25.64%	-0.21		5300	-3.56	44.01%	2.88
2440	-6.29	23.48%	0.13		5400	-4.11	38.77%	2.88
2450	-6.08	24.66%	0.34		5500	-3.6	43.62%	3.15
2460	-6.12	24.43%	0.25		5600	-3.94	40.38%	2.64
2470	-6.04	24.87%	-0.05		5700	-3.83	41.36%	2.27
2480	-5.86	25.96%	-0.17		5800	-3.48	44.86%	1.82

5:3D pattern



6:Structural Drawing