



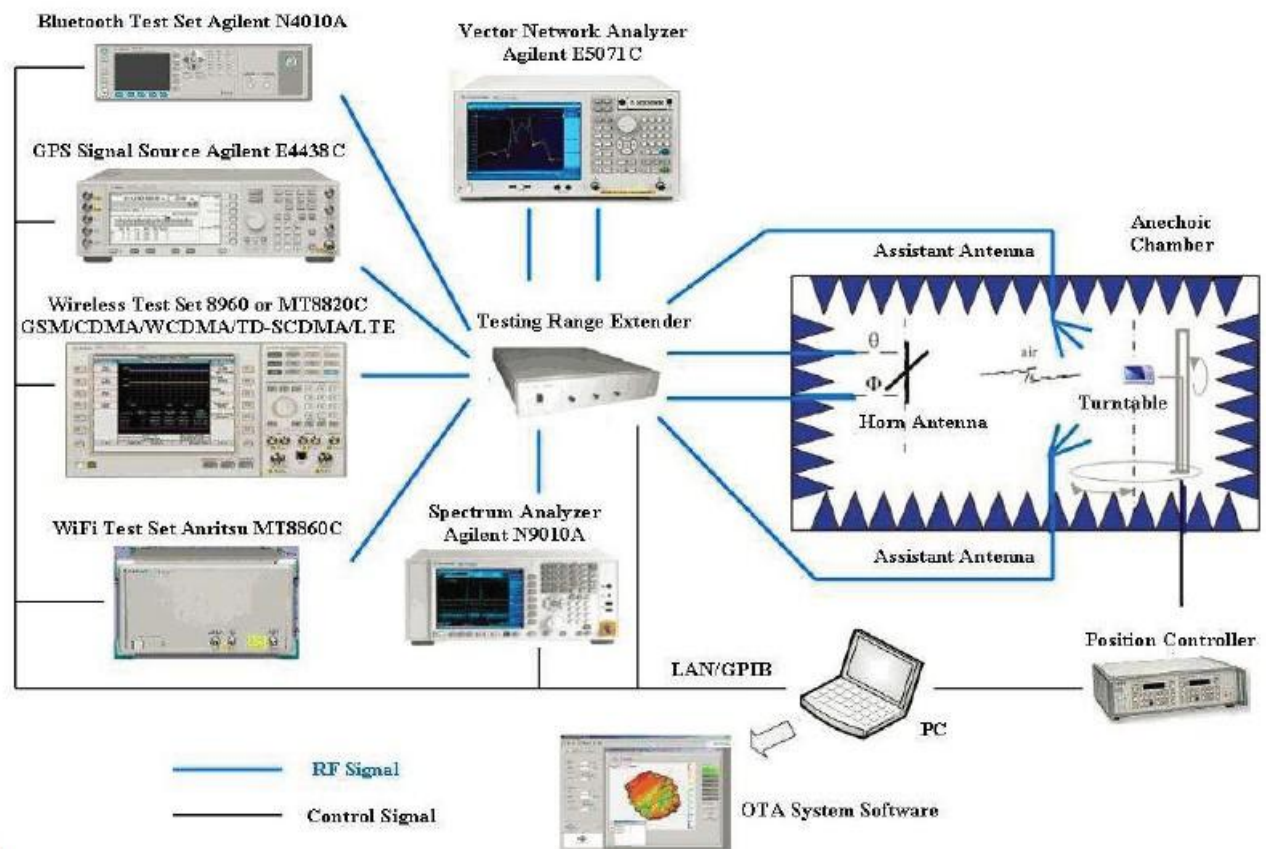
天线规格书
Antenna specification for approval

客户名称 Customer name	Shenzhen Wanli Technology Co., Ltd		
机型 Model	G1 onboard antenna		
天线频段 Antenna band	2.4GHZ		
天线类型 Antenna type	PCB antenna		
天线材质 Antenna material	Onboard		
color			
料号 Material number			
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 2024.11.15	盖章区 Seal area	日期 date 2024.11.15	盖章区 Seal area

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1: Device support&testable antenna types



2: Overview

(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:

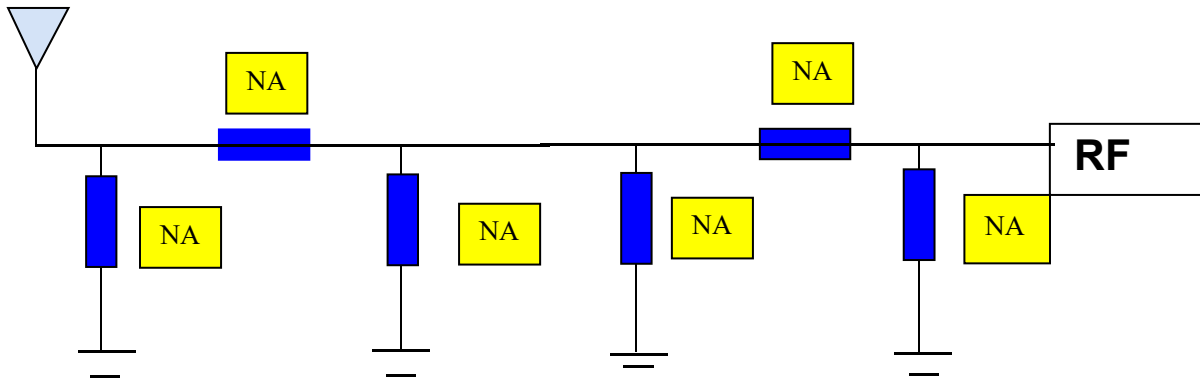
Description	2. 4GHZ~2. 5GHz	Units
VSWR	≤ 2.0	
Antenna Gain	-1.3	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

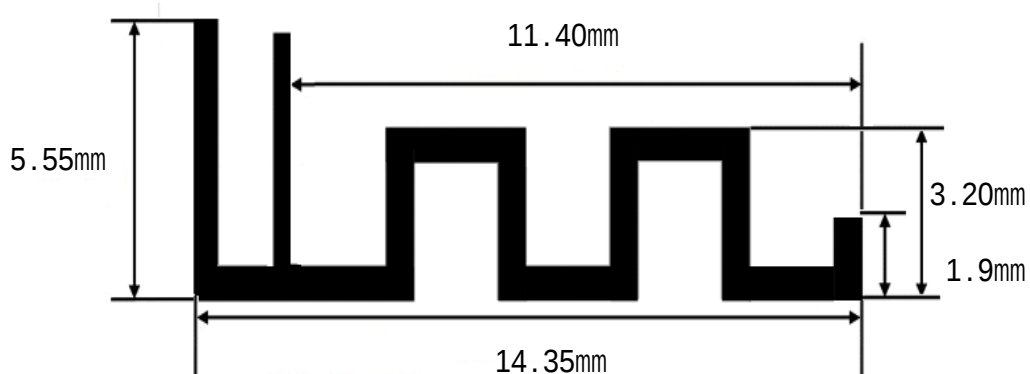
Mechanical Dimension	
Cable Length	14. 35mm
Description	PCB antenna
Material	antenna
Coaxial Cable	NA
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

3: Match circuit diagram&machine image&antenna image

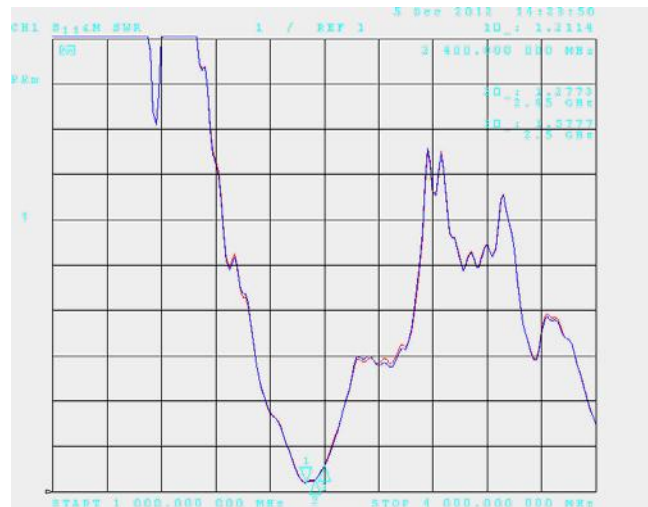
(1) Match circuit



(2) Antenna image



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



Frequency (MHz)	VSWR
2400	1.25
2450	1.18
2500	1.16

Passive Test For 2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	22.93	-6.4	-1.99	-4.14	9.57	13.363	-1.99	-18.81	48.83	49.05
2410	24.58	-6.09	-1.66	-3.81	10.321	14.257	-1.66	-18.99	49.12	49.31
2420	25.81	-5.88	-1.63	-3.78	10.894	14.918	-1.63	-18.92	49.47	49.54
2430	25.8	-5.88	-1.61	-3.76	10.97	14.826	-1.61	-18.74	49.45	49.53
2440	25.22	-5.98	-1.72	-3.87	10.72	14.5	-1.72	-18.82	49.47	49.59
2450	25.93	-5.86	-1.55	-3.7	11.093	14.836	-1.55	-18.83	49.56	49.63
2460	26.37	-5.79	-1.53	-3.68	11.328	15.047	-1.53	-18.67	49.75	49.92
2470	25.91	-5.87	-1.43	-3.58	11.279	14.63	-1.43	-18.94	49.79	50.03
2480	27.1	-5.67	-1.3	-3.45	11.806	15.295	-1.3	-20.52	49.89	50.07
2490	26.44	-5.78	-1.36	-3.51	11.542	14.894	-1.36	-21.66	49.81	50.01
2500	24.84	-6.05	-1.74	-3.89	10.82	14.018	-1.74	-21.76	49.76	49.92

5:3D pattern

