

天线规格书

Antenna specification for approval

客户名称 Customer name	MEI TONG SHI XUN		
机型 Model	mini hidden recorder		
天线频段 Antenna frequency	2.4GHZ		
天线功能 Antenna function	BLE +2.4G WIFI Antenna		
天线材质 Antenna material	calcite	颜色 color	silver
型号 model	SF2424A-3B6-A		
料号 Material number	SF2424A-3B6-A		
客户料号 Customer Part Number			
索沃德承认签章 Ward accepted the signature		客户承认签章 Client acknowledges signature	
结构 structure		采购 Purchase	
文控 Document control		结构 structure	
射频 radio frequency		工程 engineering	
审核 To examine		品质 QC	
承办人 Responsible 李婷婷		审核 To examine	
日期 date 2021.02.24	盖章区 Seal area	日期 date 2021.02.24	盖章区 Seal area

一: summarize

(1)Antenna performance

- 1.This approval sheet supports for MID project. Shrapnel antennas include in this project. This report is for the performance of WIFI 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:

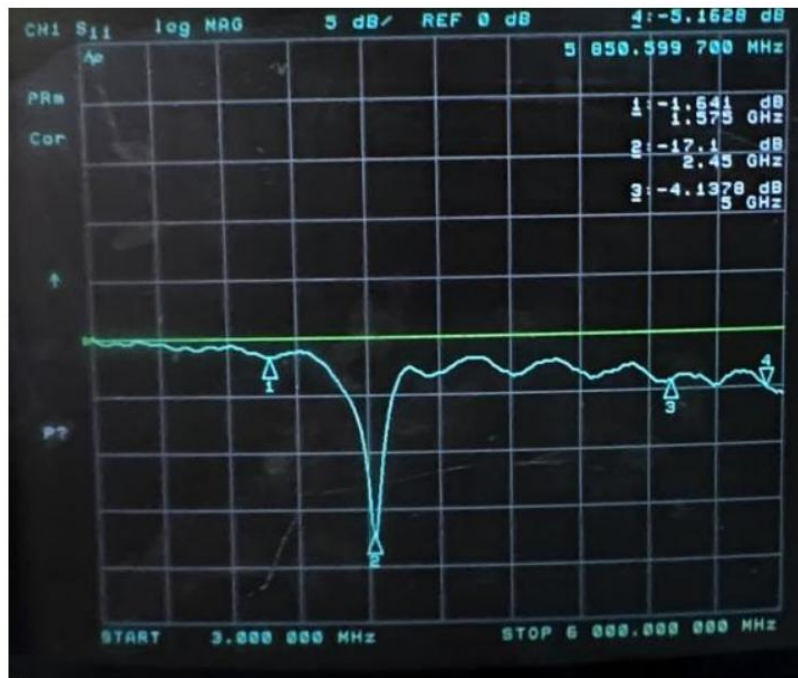
Description	2. 4GHZ~2. 5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

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



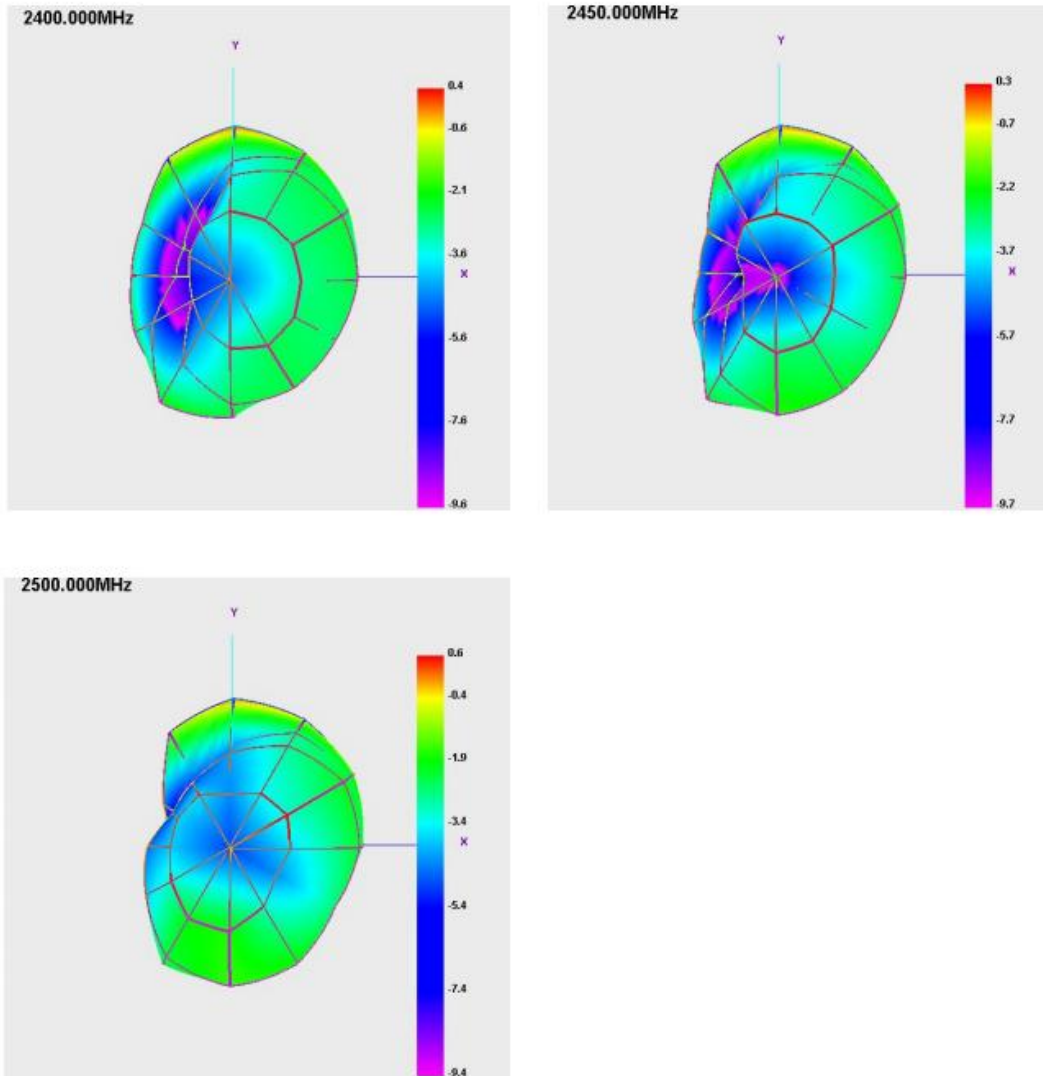
二:Antenna standing wave ratio & antenna Efficiency & active data



Passive Test For 2.4G			
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	43.19	-3.65	0.37
2410	44.06	-3.56	0.42
2420	46.25	-3.35	0.49
2430	49.14	-3.09	0.66
2440	49.65	-3.04	0.66
2450	45.86	-3.39	0.29
2460	46.24	-3.35	0.36
2470	43.17	-3.65	0.15
2480	45.3	-3.44	0.42
2490	46.07	-3.37	0.51
2500	46.14	-3.36	0.56

active data

Test Result	Wifi 2G TRP		
	1	7	13
Frequency (MHz)	2412	2442	2472
TRP (dBm)	10.77	10.49	10.23
TIS (dBm)	-78.8	78.25	-78.2
Test Result	Wifi 2G TRP		
	1	7	13
Frequency (MHz)	2412	2442	2472
TRP (dBm)	8.77	8.47	8.82
TIS (dBm)	-66.99	-66.14	-66.83
Test Result	802.11n : MCS7 20M		
	1	7	13
Frequency (MHz)	2412	2442	2472
TRP (dBm)	8.75	8.31	8.42
TIS (dBm)	-61.51	-60.78	-61.09

三:3D pattern**四:Structural drawing**

