
		合肥润东通信科技股份有限公司		Form Number	RD-PR-F006
				Version	A0
File category	Four -level file	Sample test report		Page Number	1/9
SAMPLE FOR APPROVA					
SUPPLIER		ShenZhen KeeSun Technology Co.,Ltd			
R A R T N A M E		2.4~2.5G/5.15~5.85GHz 2dBi EM60 FPC Antenna 1.13Black cable TIN:1X2X2 Cable :L=78mm	CATEGORY	FPC Antenna	
DESCRIPTION		KS053-10052-A	SAMPLE CODE	RD-21-00467	
REVISION		X1	DATESUBMITTED	2024.1.30	
Client		Controller			
Client confirmation	Approve	Quality	Project	Sale	
		Miaoyan Wu	Haibin Liao	Chenglan Liu	
Date:		Date:			
Limited company (stamping)					
Address:	Room 401, 4th Floor, Building B, HaiweiJingsong Industrial Zone, Heping CommunityFuhai Street, Baoan District, Shenzhen City.				
Contact:	Chenglan Liu	Web:	www.keesun123.com		

 润东科技 RADIO TECHNOLOGY		合肥润东通信科技股份有限公司		Form Number	RD-PR-F006
				Version	A0
File category	Four -level file	Sample test report		Page Number	2/9

## Product Spec

### ●Electrical Performance:

- 1.Frequcy Range: 2.4~2.5GHz/5.15~5.85GHz
- 2.Lmpedance: 50 Ohms nominal
- 3.VSWR:  $\leq 1.92$
- 4.Gain: 2.0dBi
- 5.Admitted power radlation: 1W
- 6.Radation of Radlation: Toroidal
- 7.Radiation: Omni
- 8.Polarization: Vertical
- 9.Connctor Type: TIN

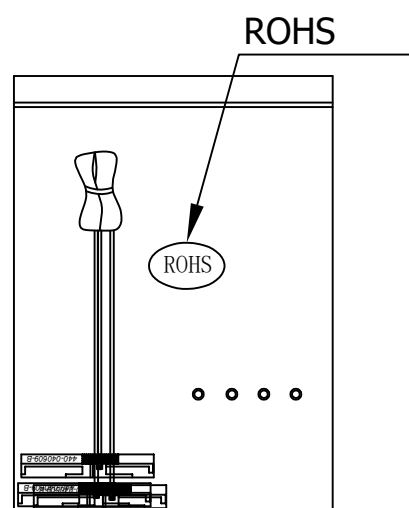
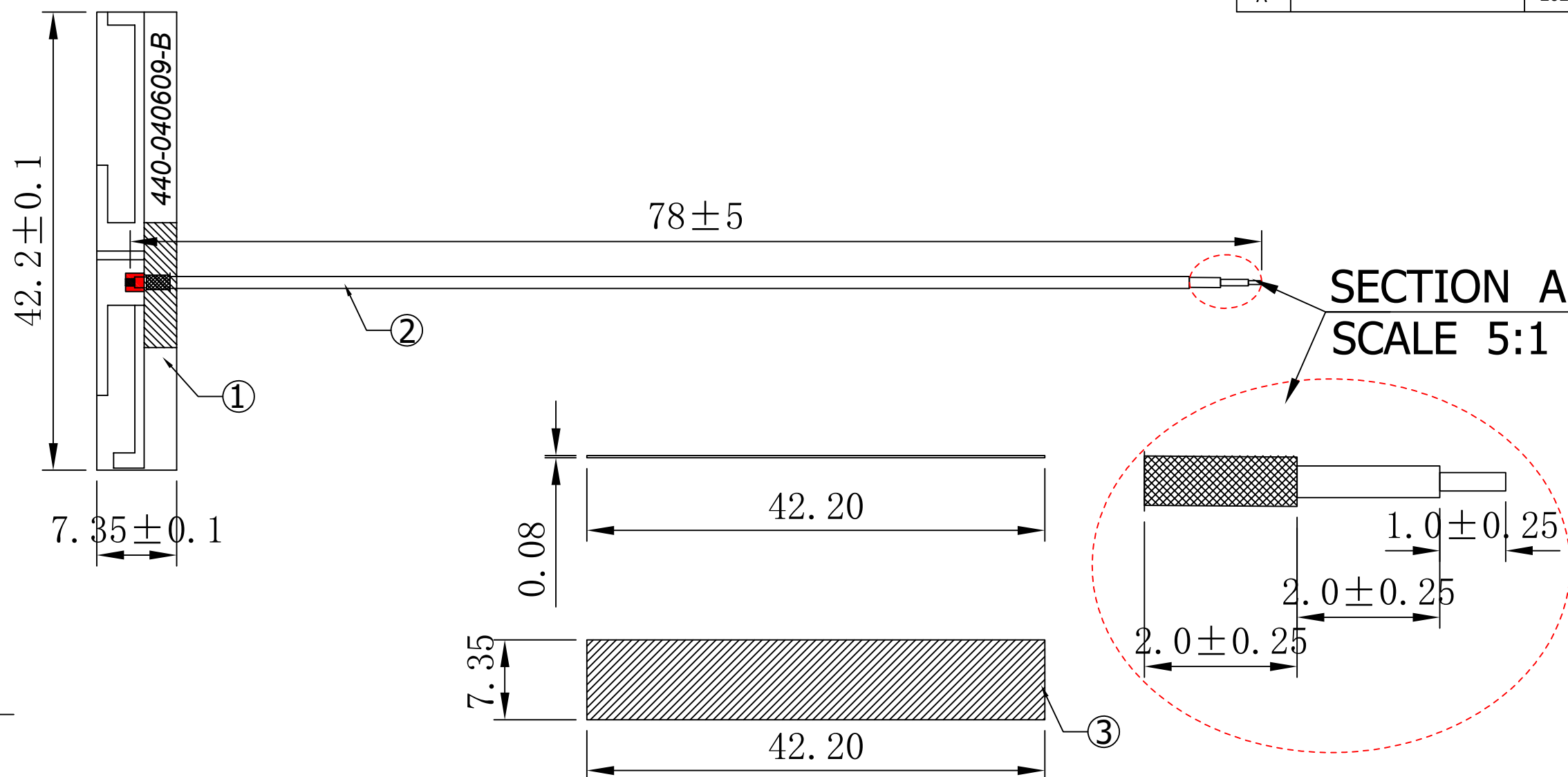
### ●Mechanical properties:

Cable: MI1.13 Black Cable , 50 Ohm  
 Operation temperature range: -20℃~ +70℃  
 Storage temperature range: -30℃~ +80℃  
 Color:

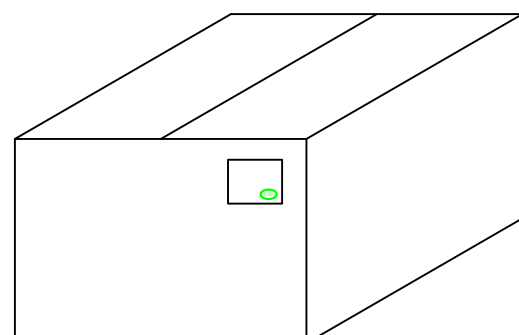
# Drawing

ROHS

REV.	DESCRIPTION	DATE
A	NEW VERSION	2020.03.28



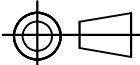
Pack:50PCS/Bundle  
400PCS/PE Bag



- 1.Outer box requires 1PCS/RoHS label on the outer box label
2. Outer box requires 1PCS/outer box label signing at the upper right corner of the outer box side wheat

SPECIFICATION:  
FREQUENCY RANGE:2.4~2.5MHz/5.15~5.85MHz  
VSWR:1.92 MAX  
IMPEDENCE:50Ω

NO.	DESCRIPTION	Q'TY	REMARK
3	Ceparation Paper (L42.2*W7.35*0.08Tmm)	1	
2	Cable $\phi 1.13$ mm CABLE (Black)	1	
1	FPC EM60 (L42.2*W7.35*0.22Tmm)	1	

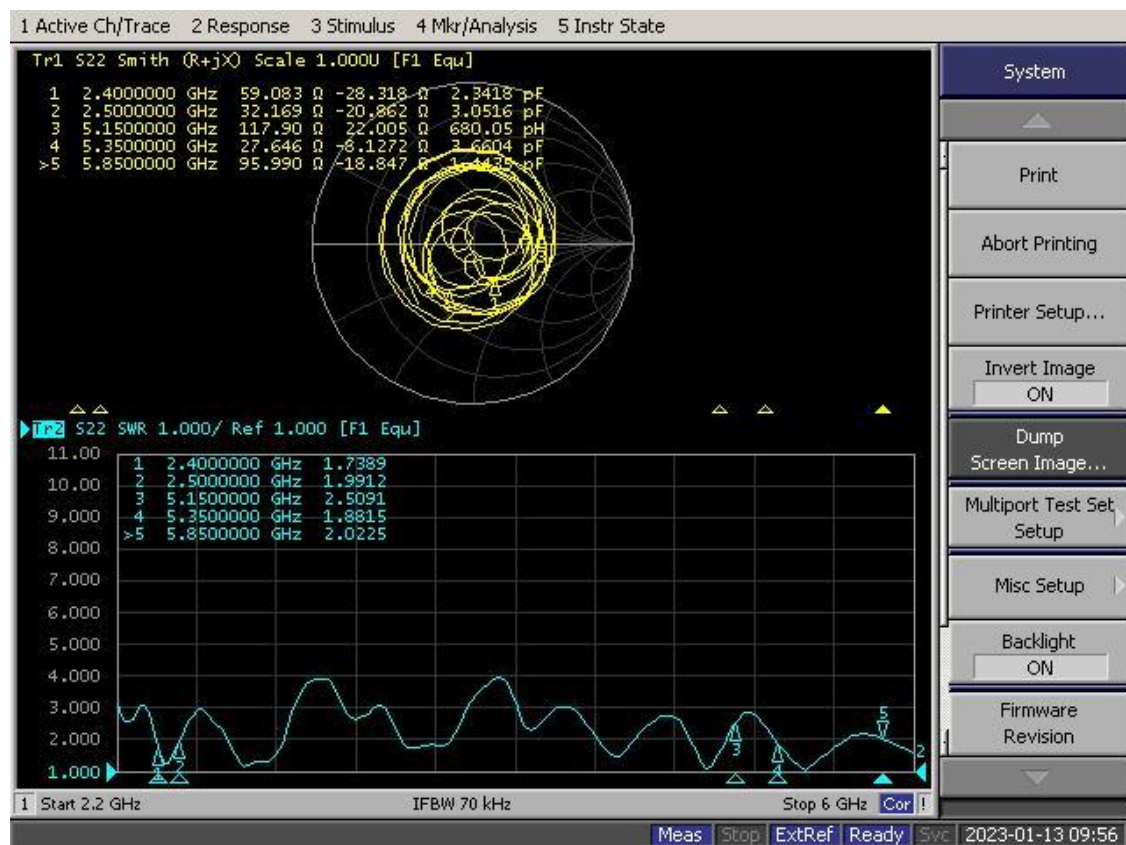
TITLE:		Built -in antenna 1.13 black Cable		ShenZhen Keesun Technology Co.,Ltd					
P/N:		RD-21-00467							
CUSTOMER:		KS053							
DRAW NO.:		KS053-10052-A				APPROVED			
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED						CHECKED			
TOLERANCE		.XXX	±0.05	XX.	±1.0	SHEET:1/1	SCALE:NONE	DRAWN	LJY
		.XX	±0.1						
		.X	±0.2			UNIT: mm	REV.A		
		X.	±0.5						

# Testing Report

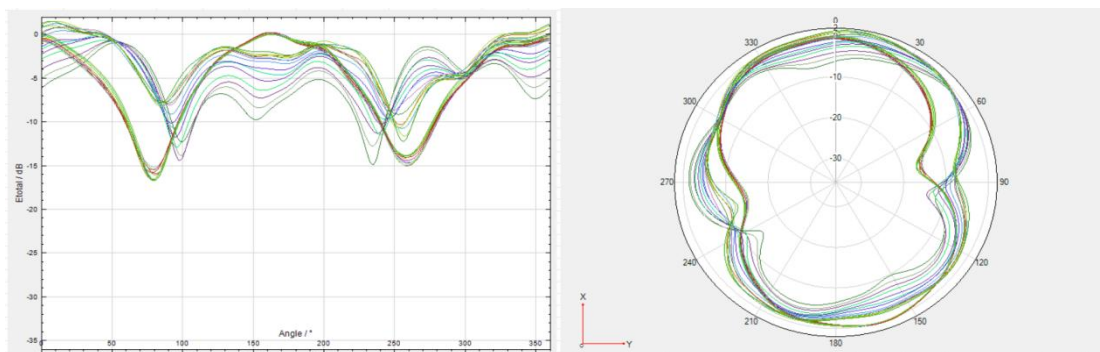
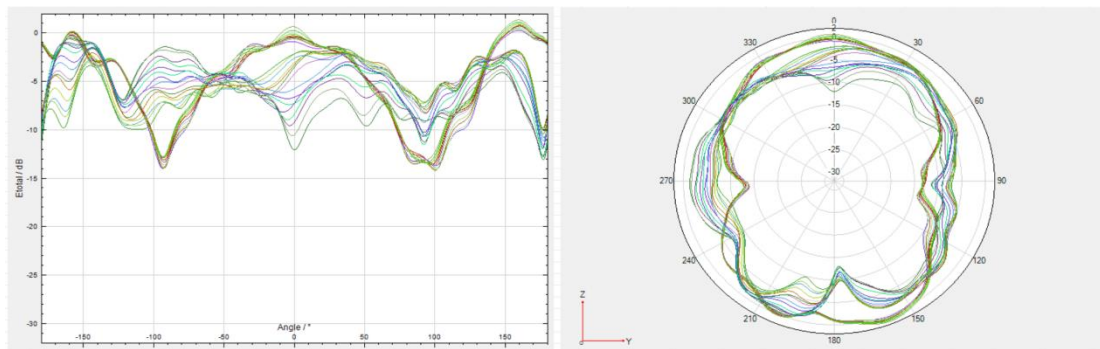
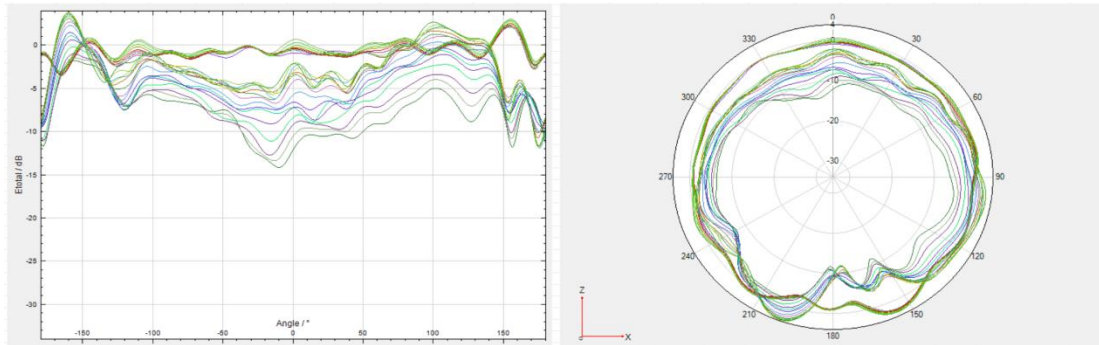
P/N:KS053-10052-A

Product Spec:2.4~2.5GHz /5.15~5.85G 2dBi FPC Antenna

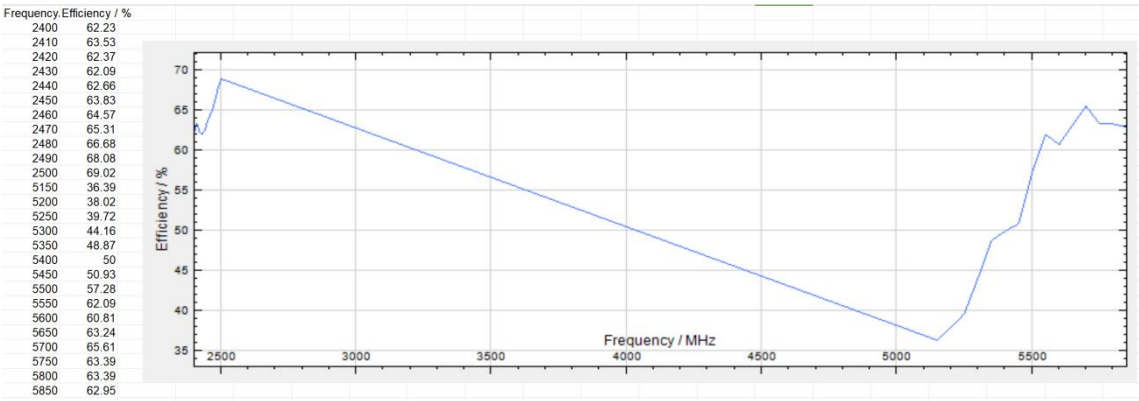
Test value:Return Loss/VSWR



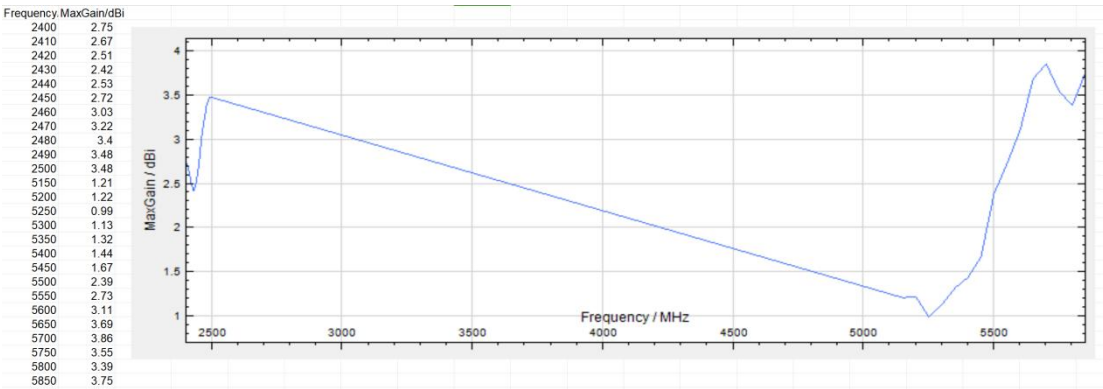
## Antenna 2D Report(2.4&5.8GHz)



Antenna Efficiency(2.4&5.8GHz)

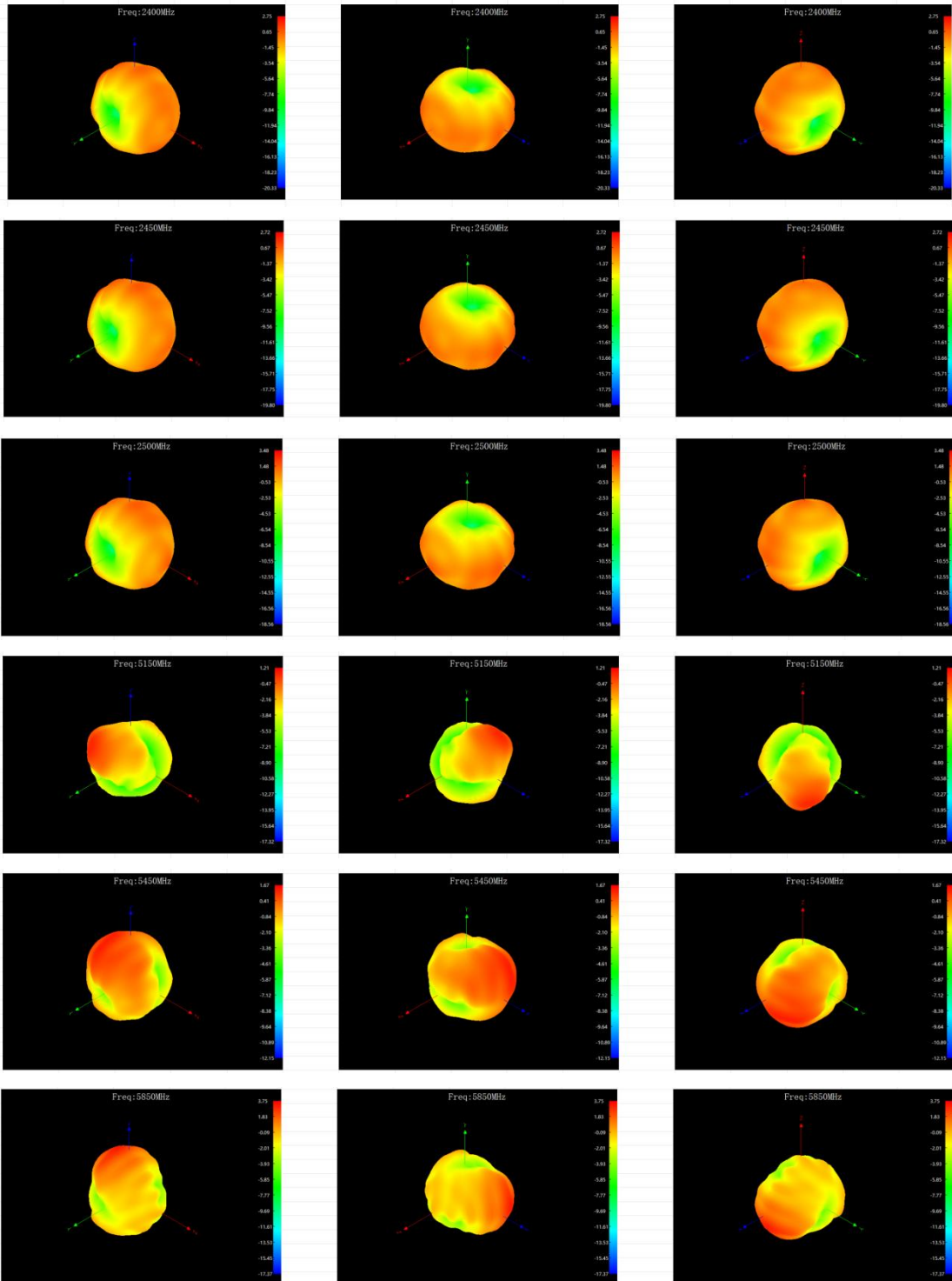



Antenna Gain(2.4&5.8GHz)





## Antenna 3D Report(2.4&5.8GHz)



		合肥润东通信科技股份有限公司		Form Number	RD-PR-F006
				Version	A0
File category	Four -level file	Sample test report		Page Number	7/9

Standard parameter		
一 Technical specification		
frequency	2.4~2.5GHz/5.15~5.85GHz	
S. W. R	≤1.92	
Gian	2.4G:2.9dBi 5G:3.75dBi	
Connerctor	TIN	
Impedance	50 Ohm	

二、Trust test

Term	Test Conditions	SPEC
Storage environment	Test temperature, humidity, and air pressure as follows without specified: as follows: 1. The temperature is -30 °C ~+80 °C 2. Relative humidity is 45%-85% 3. Bad pressure is 86kPa-106kPa	Normal electrical mechanical performance
High and low temperature test	Perform 5 cycles between 70 °C and 40 °C, and then under normal conditions 1-2H, check the appearance quality.	The size should meet the regulations and meet the performance of machinery and electrical performance
Evergrodes of damp heat test	The relative humidity is 95 ± 3%, the test temperature: 40 °C. After 2H,Electrical performance is determined within 5 minutes after the test product is removed. 1-2 hours under the piece, check the appearance quality	Size should meet the regulations and meet the performance of machinery and electrical performance
Vibration test Frequency	frequency range is 10-55Hz.	Normal electrical mechanical performance
Lajuli test	Test its tolerance with a push -tip forceometer test instrument: ≥ 10N	Normal electrical mechanical performance
Resistance	1. Insulation spark voltage 1.5kV 2. Sheath spark voltage 1.5kV 3. Insulation -to -sheeds to resist voltage 0.5KV	Normal electrical mechanical performance
Decline	2.0(nominal) 1.0GHz 2.9(nominal) 2.0GHz 3.2(nominal) 2.4GHz 3.7(nominal) 3.0GHz 4.3(nominal) 4.0GHz 4.8(nominal) 5.0GHz 5.3(nominal) 6.0GHz	3.3dB/m (at20℃)