The Main Antenna Sample Confirmation

Customer	Shenzhen AngSi Technology Co., Ltd			
Project Name	BL-2020		Date	2024-12-27
Project NO.	SN1264	Notes	coaxial line+ FPC	
Frequency Range	BT:2400-2500MHz			
Designed By	RF Engineer		Structural Engineer	
Checked By	Engineering Manager			
Client’ s Approval				

Designer：SINAWELL Electronics(Shenzhen) Co., Ltd.

Add：712-717, Block A Jinfulai Building,49-1 Dabao Road,Xinan 28th area,Baoan District,Shenzhen,China

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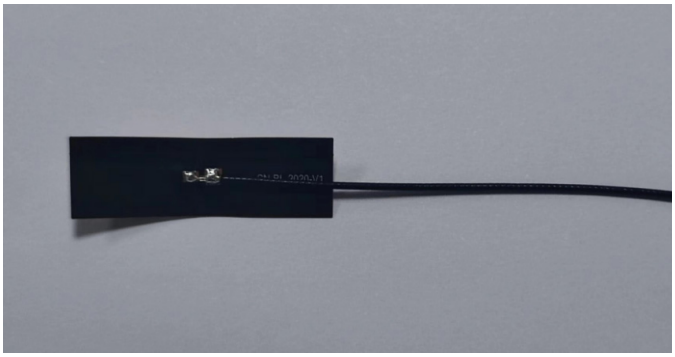
1.Specification description

This specification describes the status of the BL-2020 internal antenna with a frequency band of BT.

2. Antenna appearance



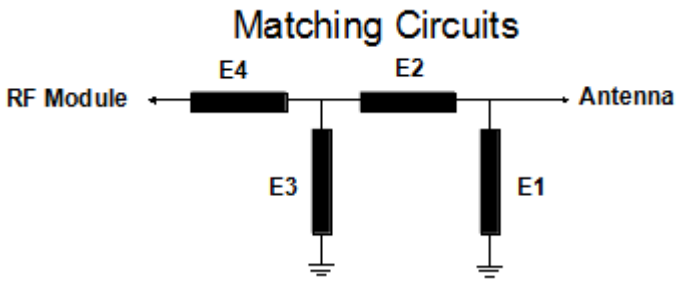
3.Electrical performance

3.1.Antenna band

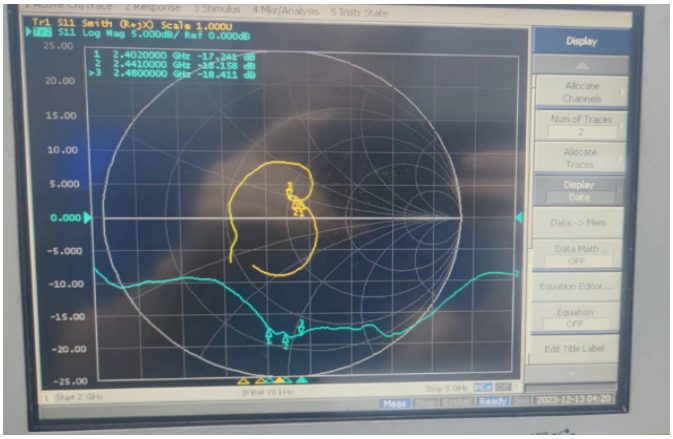
BT:2400-2500MHz

3.2.Matching Circuit

Element	Value
E1	NC
E2	0Ω
E3	NC
E4	0Ω



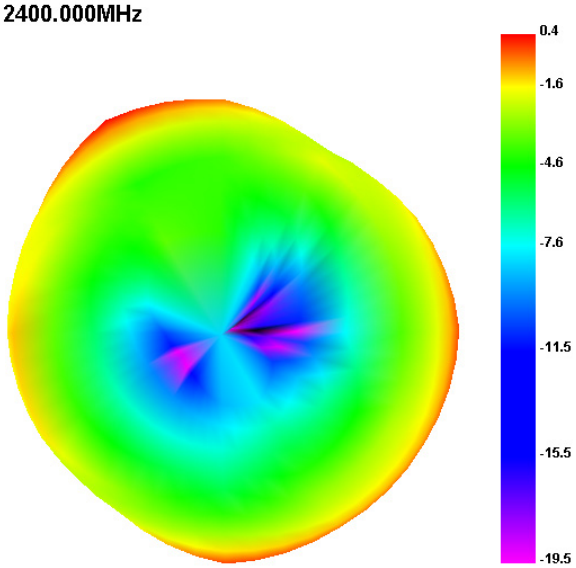
3.3.Return Loss

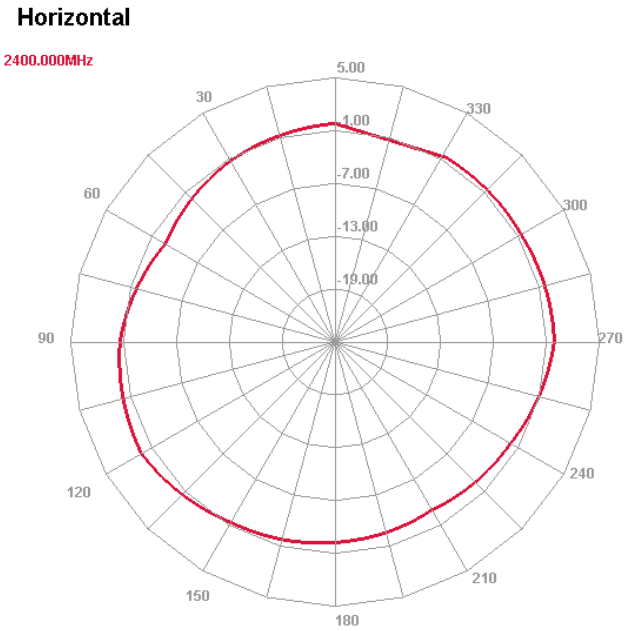


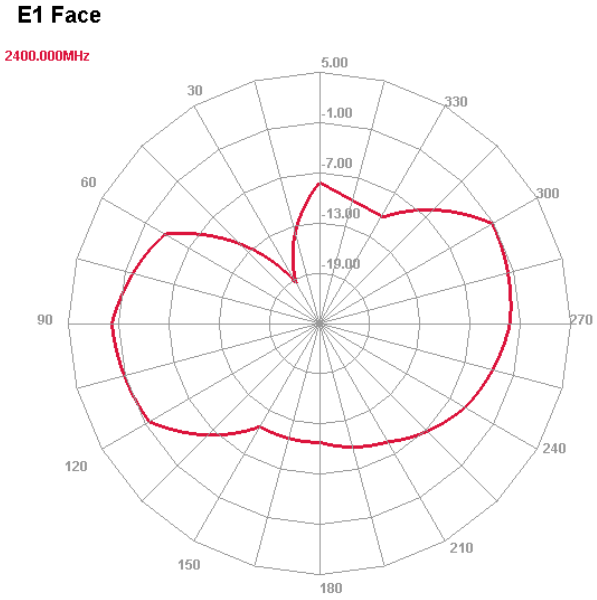
3.4.antenna passive test data

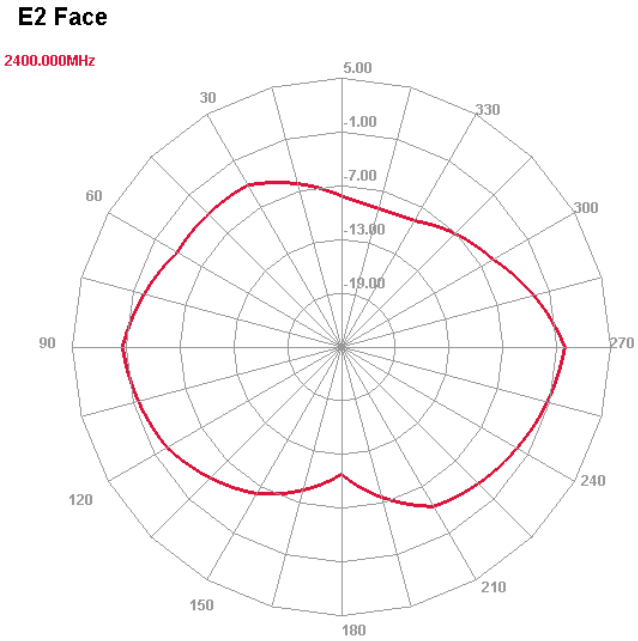
Passive Test			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.24	-3.08	0.36
2410	51.44	-2.89	0.31
2420	53.22	-2.74	0.22
2430	57.56	-2.4	0.36
2440	54.9	-2.6	0.14
2450	50.84	-2.94	-0.1
2460	48.45	-3.15	-0.29
2470	44.17	-3.55	-0.81
2480	46.98	-3.28	-0.65
2490	45.19	-3.45	-0.77
2500	48.2	-3.17	-0.42

3.5.Field intensity pattern

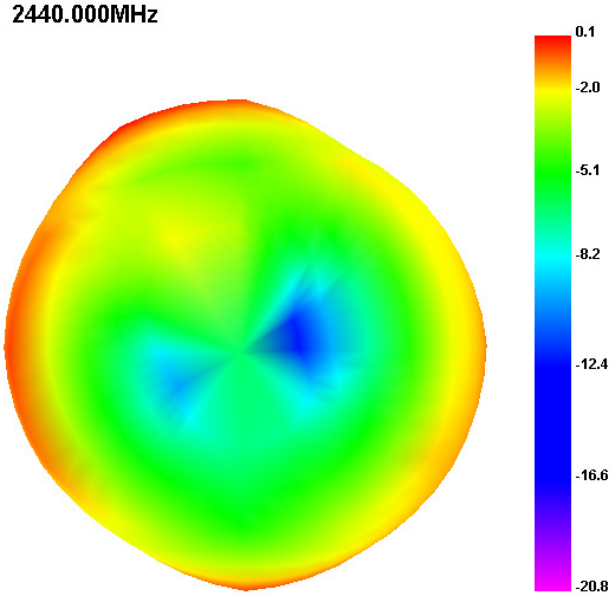




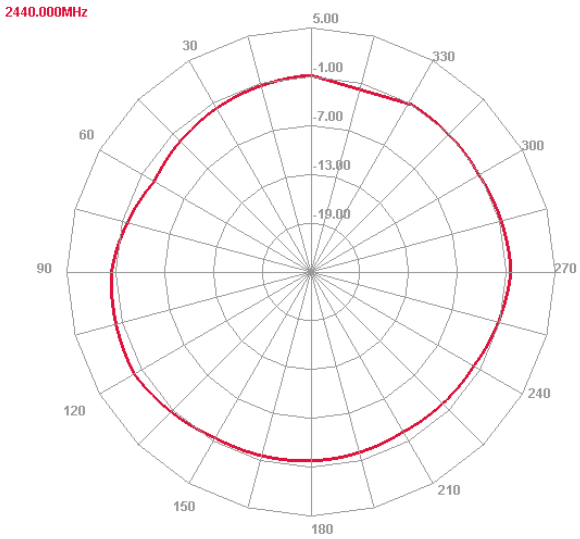




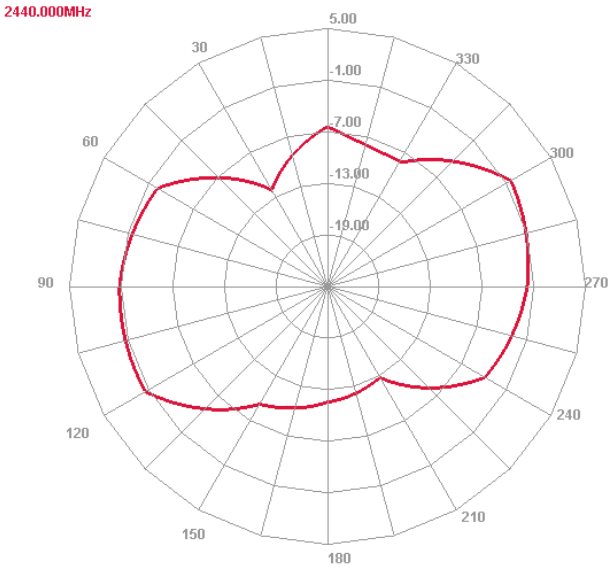
2440.000MHz



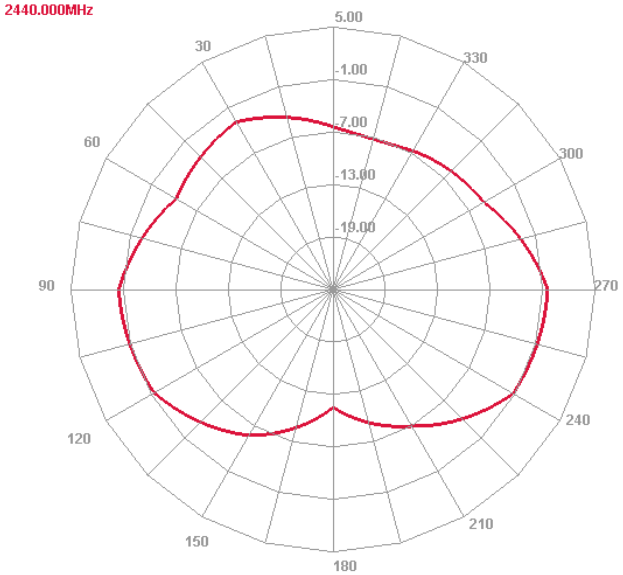
Horizontal



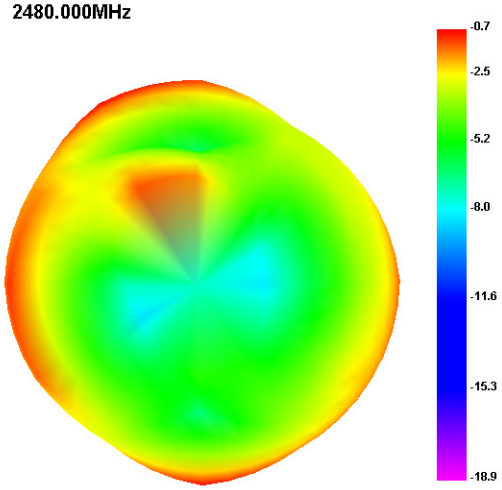
E1 Face



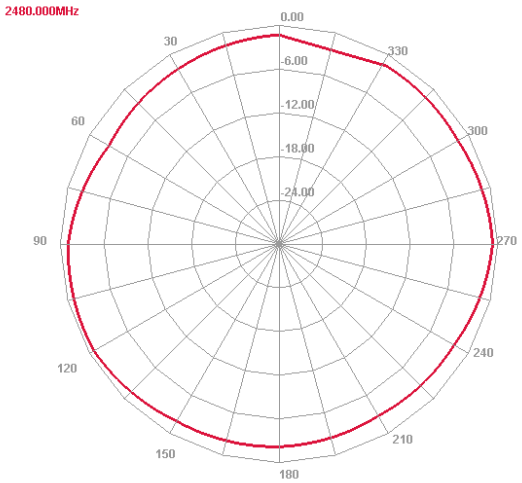
E2 Face



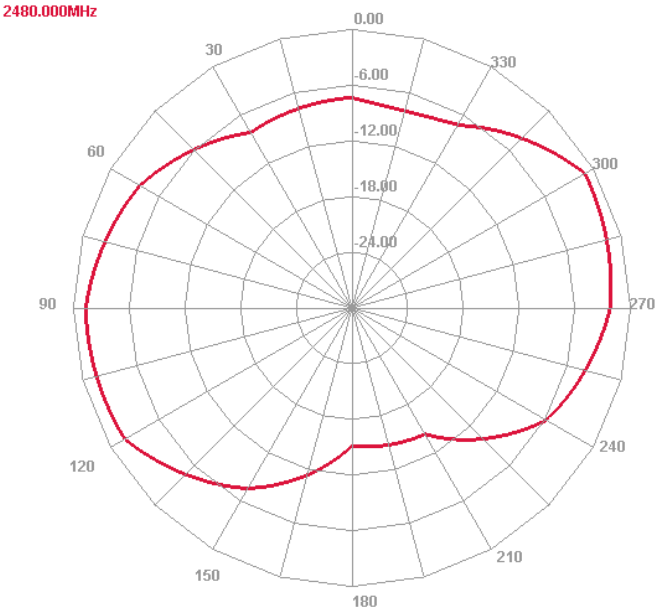
2480.000MHz



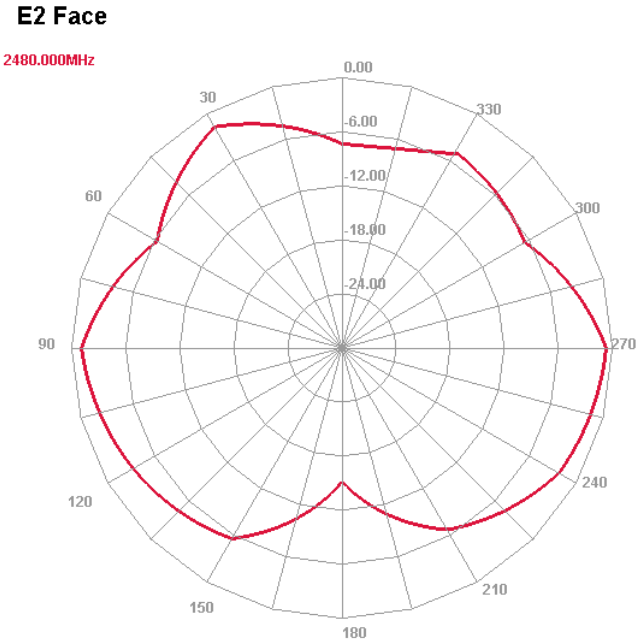
Horizontal



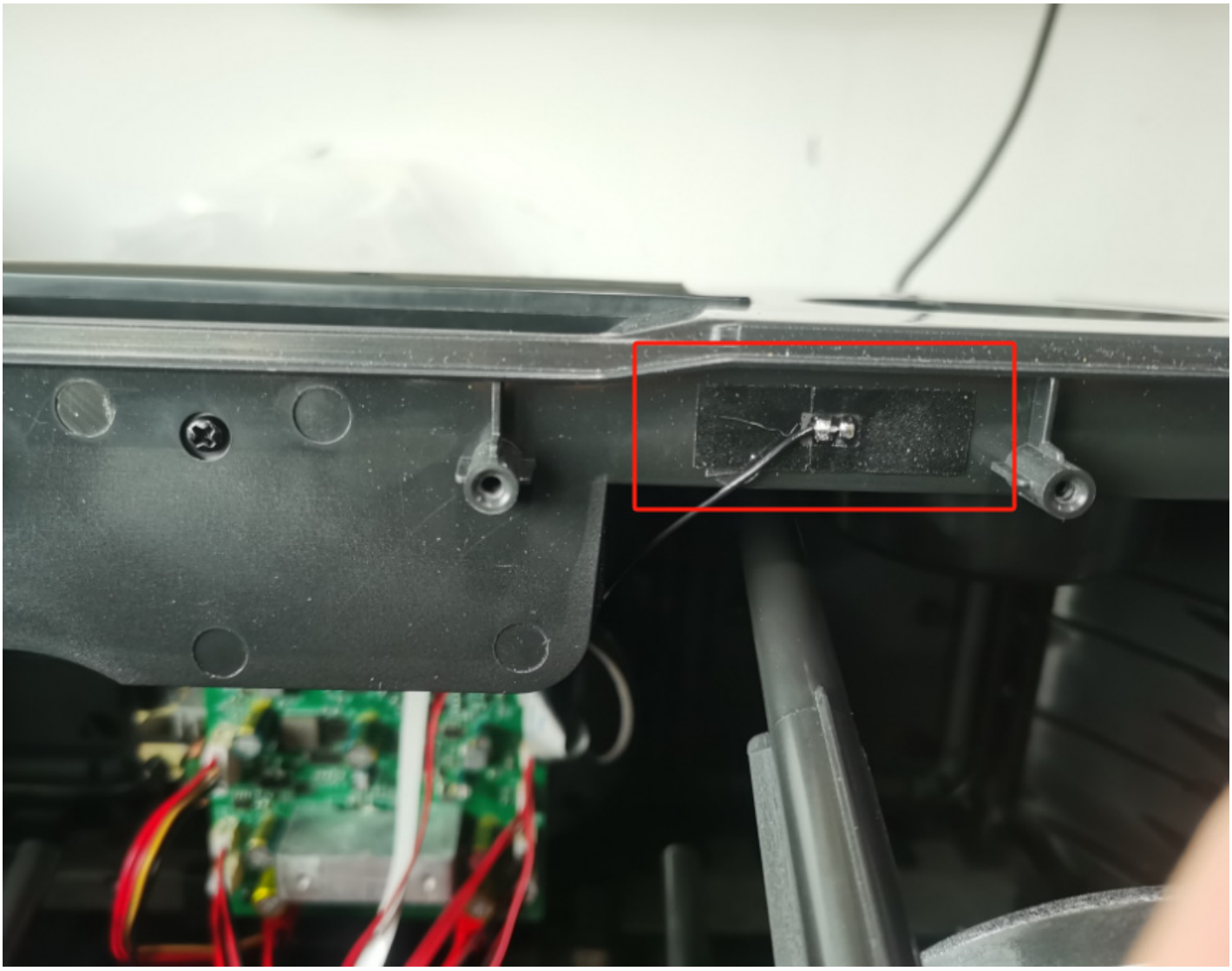
E1 Face



E2 Face



3.6.Antenna environment processing



The antenna is shown in the red box

4.Structural Drawing