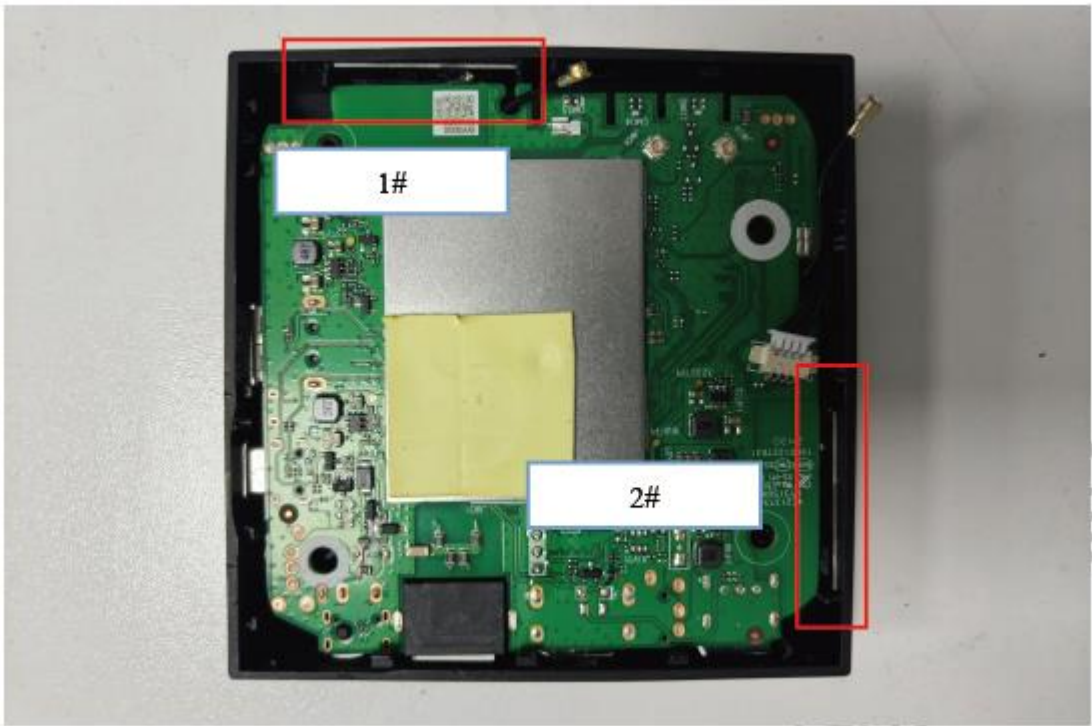


1. Antenna position mounting diagram



Model: E171M162-B1

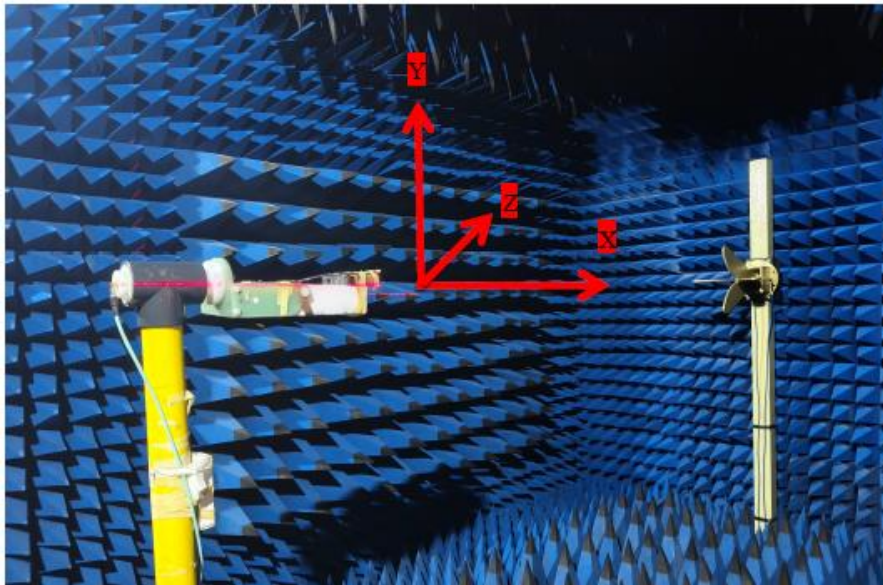
Manufacturer: Shenzhen Bo'an Technology Co.,Ltd.

Address: 403, 405, 408-410, Block C, Huafeng Smart Innovation Port, Xixiang Street,
Baoan District, Shenzhen

2. Description of electrical performance parameters

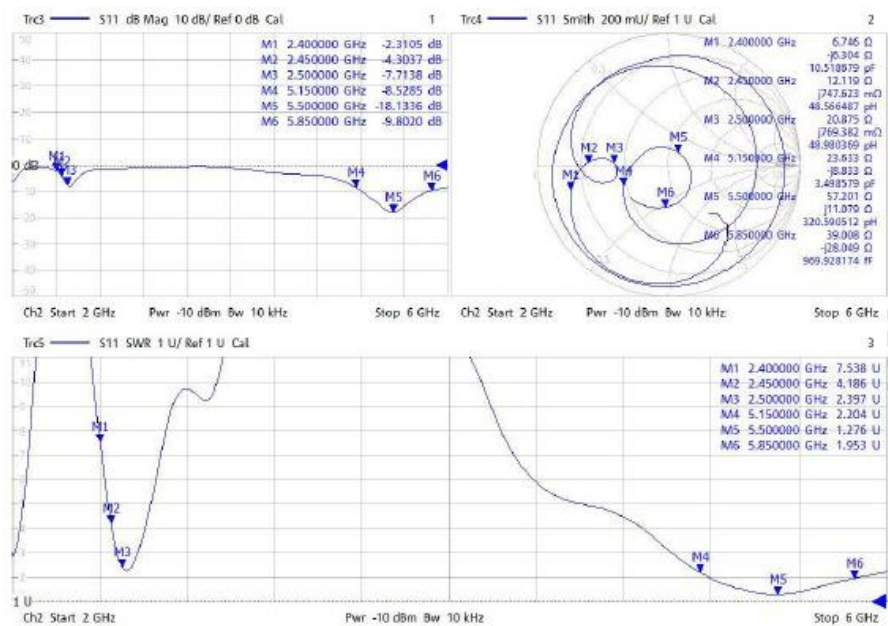
Parameter attribute	Parameter name	Non-halogen-free required value
Electrical property	Antenna band	2.4G-5G
	Frequency range	2400~2500MHz; 5150-5850MHz
	Characteristic impedance	50Ω
	Standing-wave ratio	<8
	Power capacity	<10w
	Polarization mode	Linear
	Radiation direction	omnidirectional
	gain	≥-5dBi, ≤3dBi
	efficiency	≥22%, ≤63%

3. Location of antenna test darkroom

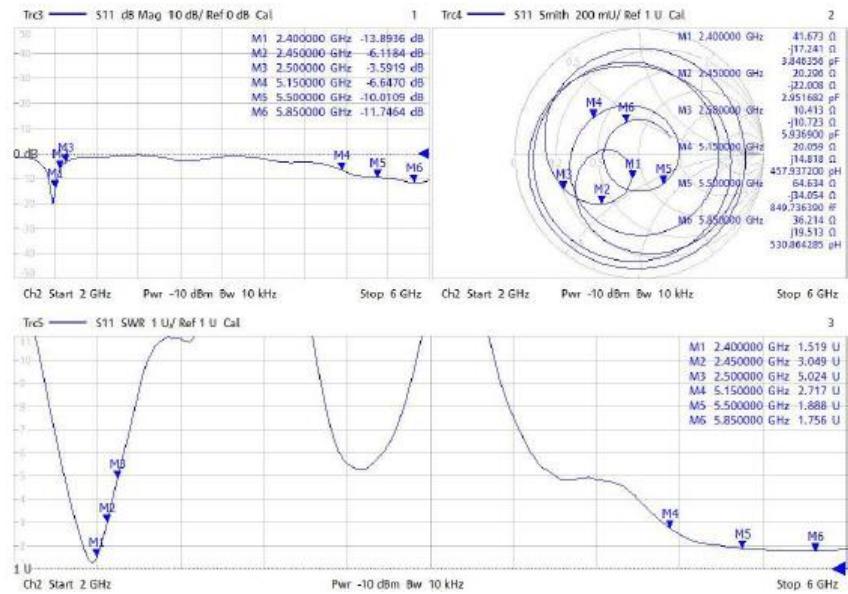


4. Antenna S11 parameter diagram

1# non-halogen-free



2# non-halogen-free



5. Standing wave ratio data

Freq/MHz	2400	2450	2500	5150	5500	5850
1#	7.538	4.186	2.397	2.204	1.276	1.953
2#	1.519	3.049	5.024	2.717	1.888	1.756

6. Antenna darkroom test data

1#

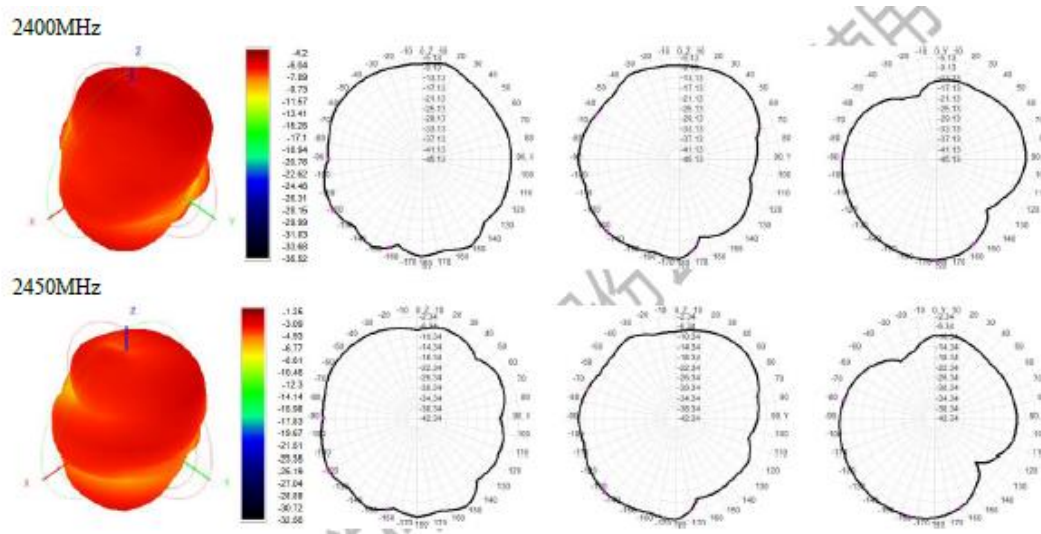
Freq (MHz)	Gain(dBi)	Efficiency(%)
2400	-4.20	22.20
2410	-3.31	24.35
2420	-2.77	26.95
2430	-2.02	27.04
2440	-1.66	29.63
2450	-1.25	31.46
2460	-0.90	33.54
2470	-0.45	35.07
2480	-0.10	36.05
2490	0.21	37.02
2500	0.53	38.85
5150	0.80	54.23
5250	2.17	56.80
5350	2.41	59.81
5450	2.38	63.00
5550	2.09	62.88
5650	1.68	60.63
5750	1.56	59.46
5850	1.70	57.70

2#

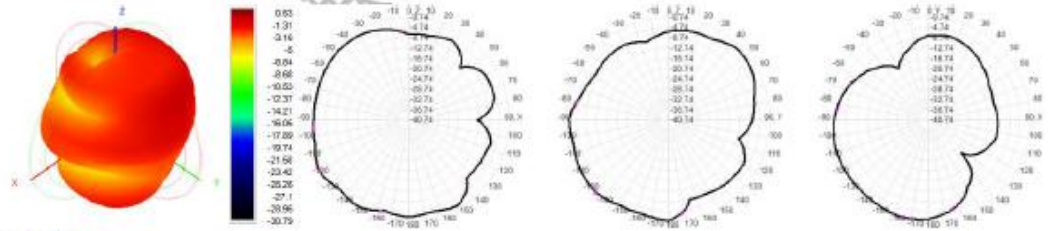
Freq (MHz)	Gain(dBi)	Efficiency(%)
2400	1.31	45.12
2410	1.27	46.36
2420	1.62	47.00
2430	1.74	46.92
2440	1.43	43.86
2450	1.02	41.79
2460	0.60	38.76
2470	0.28	36.56
2480	0.07	34.08
2490	-0.07	32.09
2500	-0.61	28.68
5150	0.40	50.29
5250	0.60	53.23
5350	1.92	56.83
5450	2.62	58.87
5550	2.55	55.10
5650	1.40	53.31
5750	1.20	51.38
5850	1.32	48.80

7. Antenna pattern

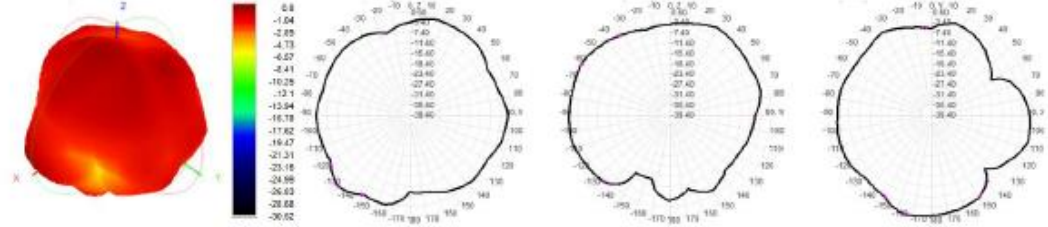
1#



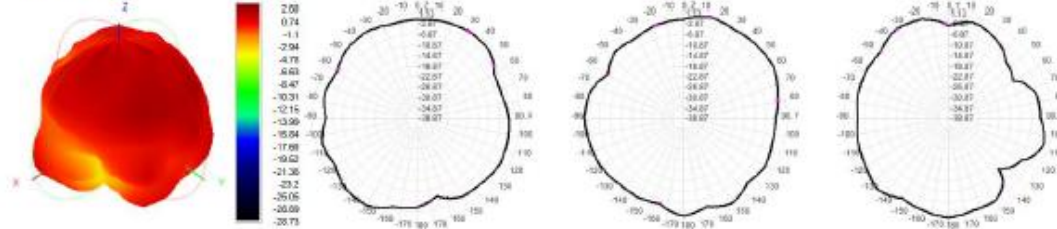
2500MHz



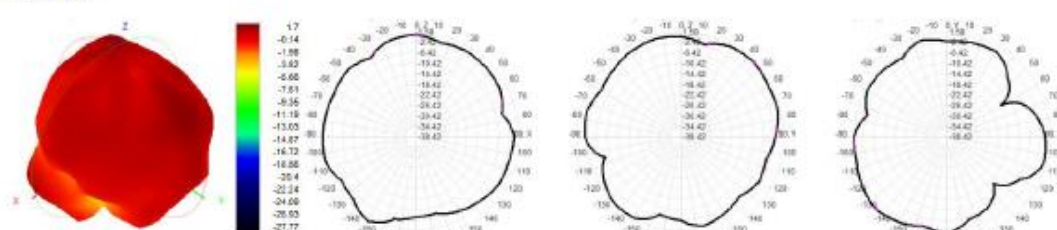
5150MHz



5500MHz

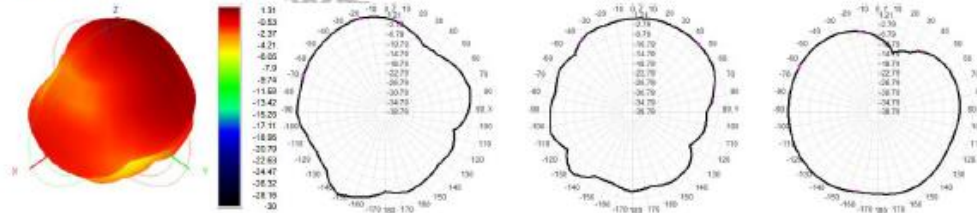


5850MHz

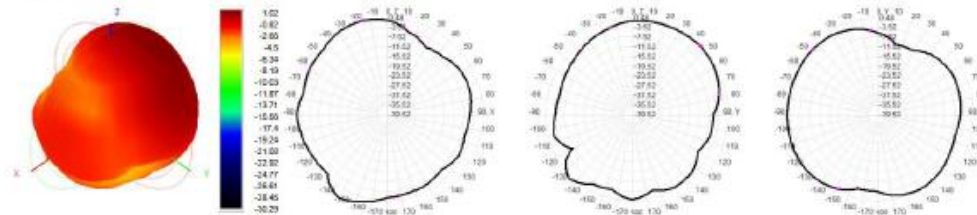


2#

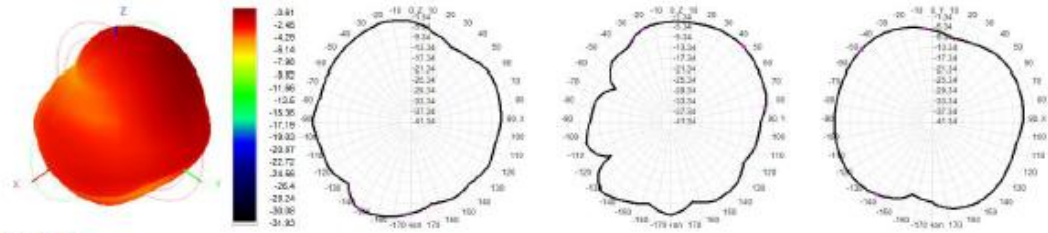
2400MHz



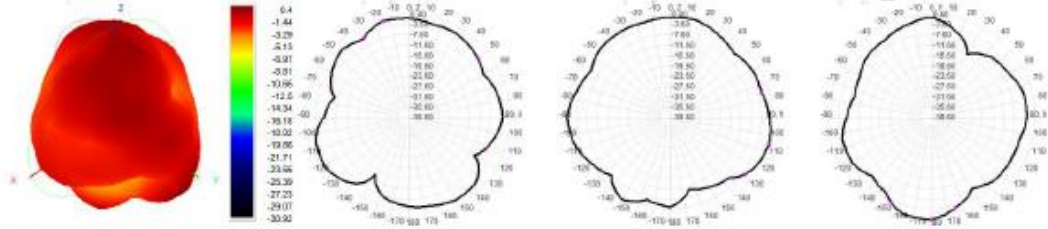
2450MHz



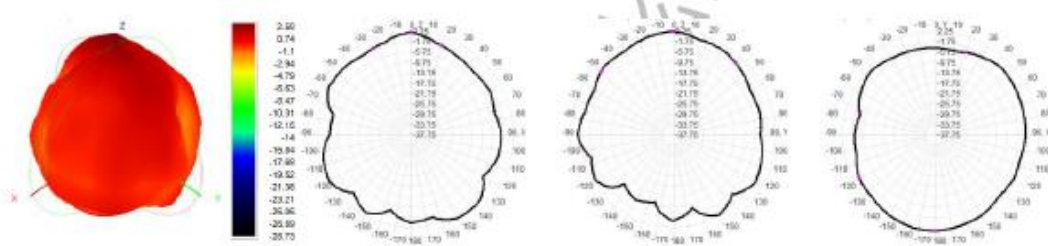
2500MHz



5150MHz



5500MHz



5850MHz

