



SPECIFICATION FOR APPROVAL

Customer Name Edan

Customer P/N.

Product Description SE-1202 WIFI 2.4/5G

BGS P/N LBS-019C (RA version)

Manufacturer Shenzhen bogesi communication technology co.,ltd

Approve Date 2026/6/23

BGS Sign and Seal	Customer Sign and Seal
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1. Antenna Specification

1.1: Electrical Specification

Freq.Range (MHz)	2400-2500;5150-5850
Impedance (Ω)	50
VSWR	≤ 3
Directional	Omni directional
Polarization	Linear
Gain (dBi)	2400-2500MHz: $2.23\text{dBi} \leq \text{gain} \leq 2.85\text{dBi}$
	5100-5825MHz: $1.6\text{dBi} \leq \text{gain} \leq 3.46\text{dBi}$

1.2: Mechanical Specification

Material	FPC+PET
RF Cable Type	RF1.13
Connector Type	first-generation terminal

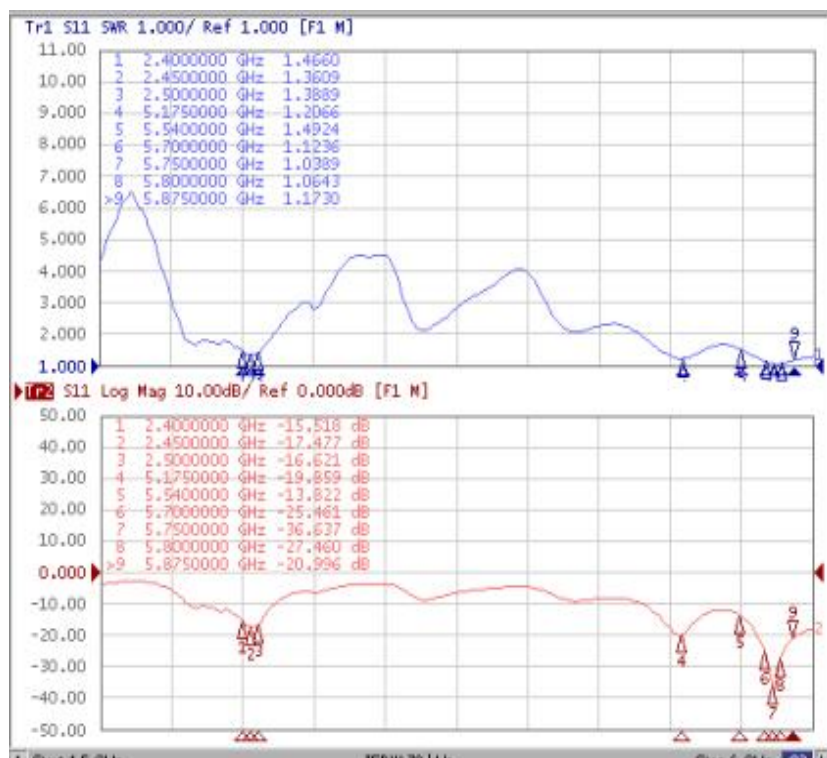
1.3: Environmental Specification

Operation temp	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storage temp	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



3.Test Report

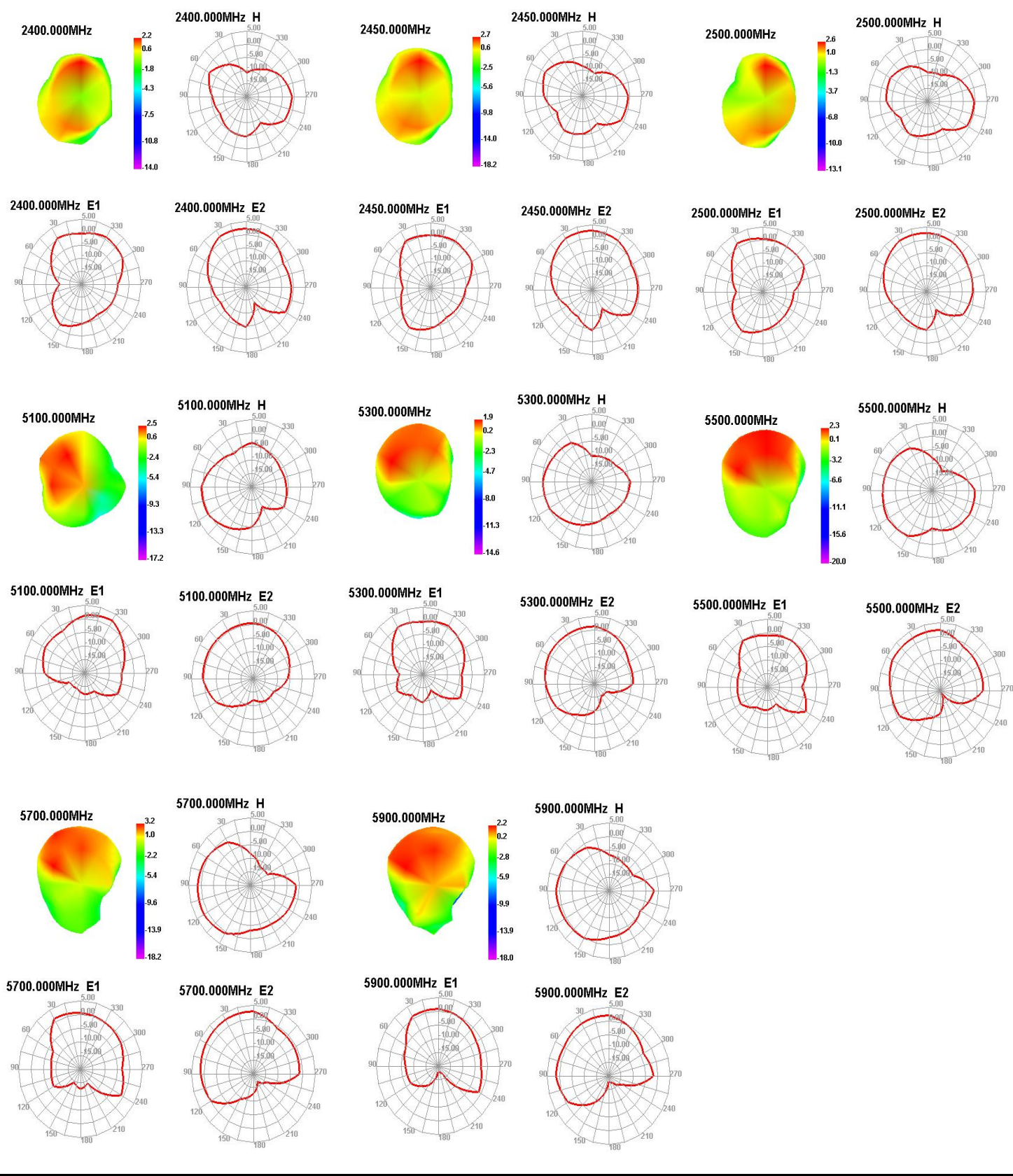
3.1: VSWR



3.2: Antenna efficiency and gain

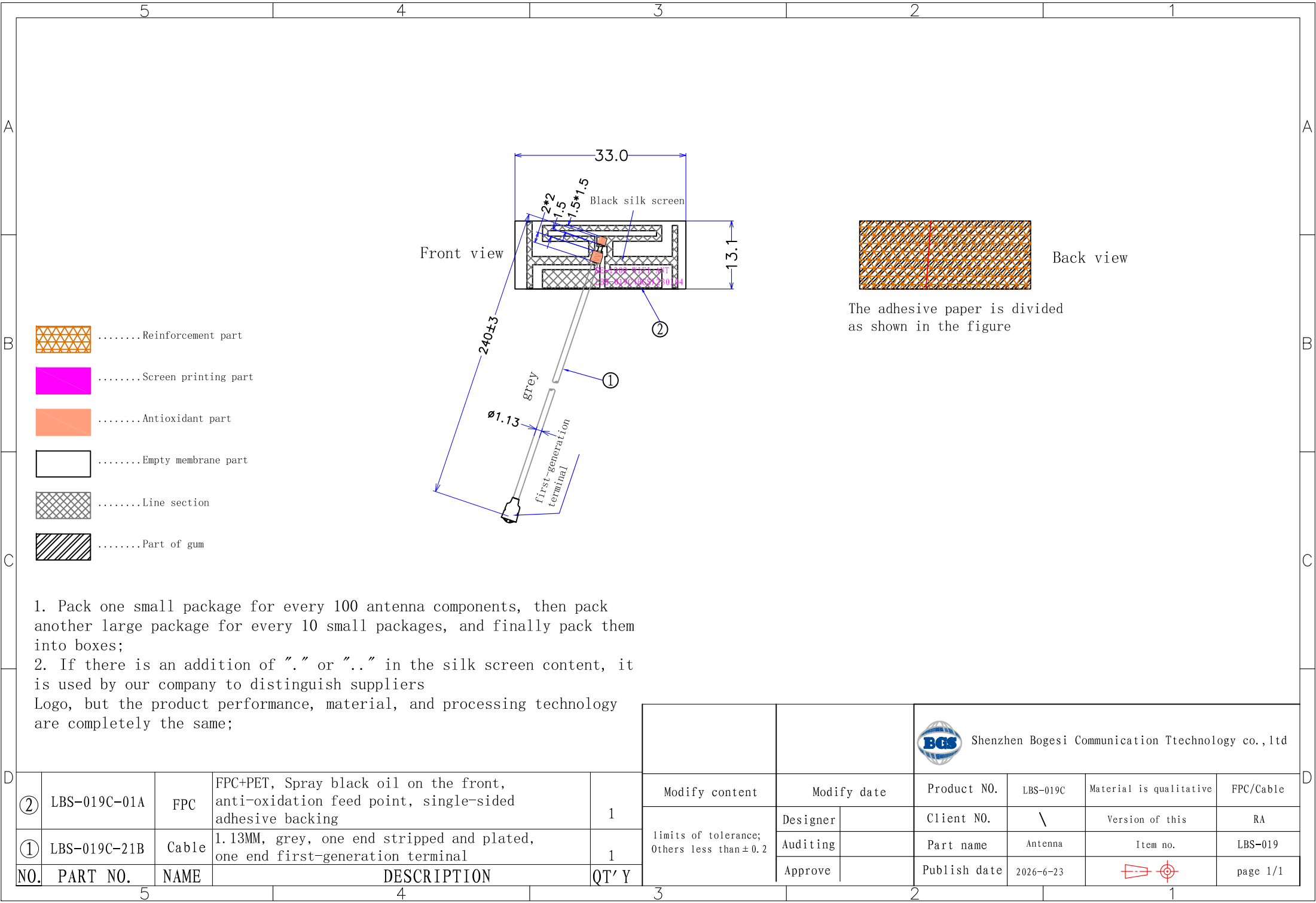
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.94	2.23	5100	48.52	2.54	5500	56.41	2.34
2410	53.27	2.52	5125	52.39	2.63	5525	53.25	2.1
2420	54.95	2.75	5150	44.38	1.62	5550	58.57	2.38
2430	56.12	2.85	5175	62.63	2.92	5575	64.36	2.87
2440	54.47	2.64	5200	48.44	1.6	5600	61.21	2.75
2450	55.1	2.74	5225	54.86	2.48	5625	66.66	2.98
2460	56.08	2.82	5250	46.58	1.78	5650	59.49	2.6
2470	57.99	2.79	5275	50.49	1.89	5675	63.9	3.06
2480	53.53	2.35	5300	48.97	1.85	5700	65.32	3.17
2490	54.29	2.52	5325	50.56	2.13	5725	64.32	3.03
2500	56.93	2.62	5350	54.84	2.22	5750	65.78	3.46
			5375	67.98	3.1	5775	66.56	3.45
			5400	48.51	1.72	5800	54.93	2.3
			5425	65.86	3	5825	62.42	2.82
			5450	56.05	2.31	5850	60.43	2.81
			5475	62.2	2.8	5875	60.22	2.45
						5900	58.32	2.23

3.3: Directional diagram



3.4: Active test data

Band	Channel	TRP	TIS
		11g/6M	11g/54M
2.4G	Low	11.52	-56.57
	Mid	10.63	-56.25
	High	12.39	-54.12
		11a/6M	11a/54M
5.8G	Low	11.14	-55.36
	Mid	10.23	-57.36
	High	8.36	-54.36



1. Pack one small package for every 100 antenna components, then pack another large package for every 10 small packages, and finally pack them into boxes;
2. If there is an addition of "." or ".." in the silk screen content, it is used by our company to distinguish suppliers Logo, but the product performance, material, and processing technology are completely the same;

Logo, but the product performance, material, and processing technology are completely the same;							 Shenzhen Bogesi Communication Ttechnology co.,ltd					
D	②	LBS-019C-01A	FPC	FPC+PET, Spray black oil on the front, anti-oxidation feed point, single-sided adhesive backing	1	Modify content	Modify date		Product NO.	LBS-019C	Material is qualitative	FPC/Cable
	①	LBS-019C-21B	Cable	1.13MM, grey, one end stripped and plated, one end first-generation terminal	1	limits of tolerance; Others less than±0.2	Designer		Client NO.	\	Version of this	RA
							Auditing		Part name	Antenna	Item no.	LBS-019
	NO.	PART NO.	NAME	DESCRIPTION	QT' Y		Approve		Publish date	2026-6-23		page 1/1
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