



SPECIFICATION FOR APPROVAL

Customer Name Edan

Customer P/N. _____

Product Description WIFI2.4G/5G ANT

BGS P/N LBS-016A (RA version)

Manufacturer Shenzhen bogesi communication technology co.,ltd

Approve Date 2026/3/28

BGS Sign and Seal	Customer Sign and Seal

Note: 1. After the electronic file or paper file that has been stamped by BGS and was provided to the customer,, the customer need to sign the paper or electronic file of the approval back to BGS before place the formal order to BGS. If there is no formal change or change notice, BGS acqu iesce that the customer approvel and accept this specification of product .

2. The relevant intellectual property rights of this product are owned by Shenzhen Bogesi Communication Technology Co., Ltd. Without the permission of our BGS, please do not apply for patent rights for this product in other names, and please do not disclose this product and related information to others or provide to third-party for viewing and use.



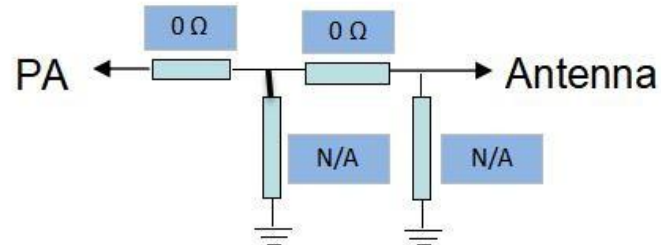
1. Antenna Specification

1.1: Electrical Specification	
Freq.Range (MHz)	2400-2500; 5100-5825
Impedance (Ω)	50
VSWR	≤ 3
Directional	Omni directional
Polarization	Linear
Gain (dBi)	2400-2500: $1.21 \leq \text{gain} \leq 1.8$
	5100-5825: $2.26 \leq \text{gain} \leq 3.74$
1.2: Mechanical Specification	
Material	FPC+FR4
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: The matching circuits

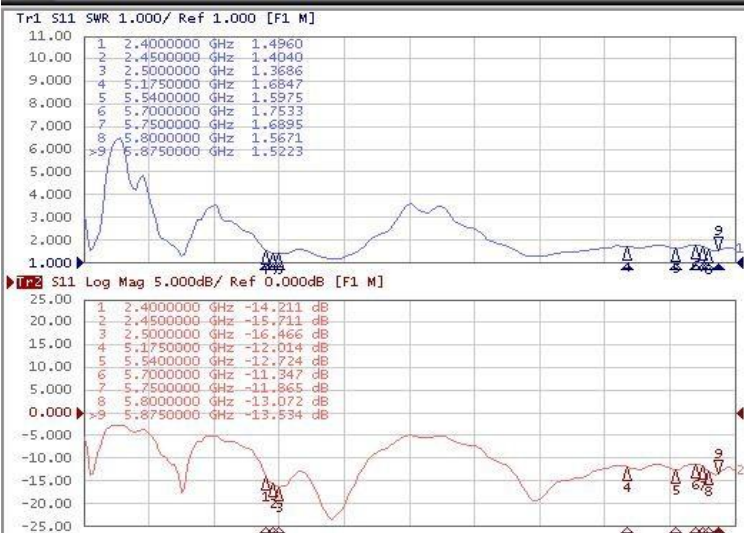


3.2: VSWR

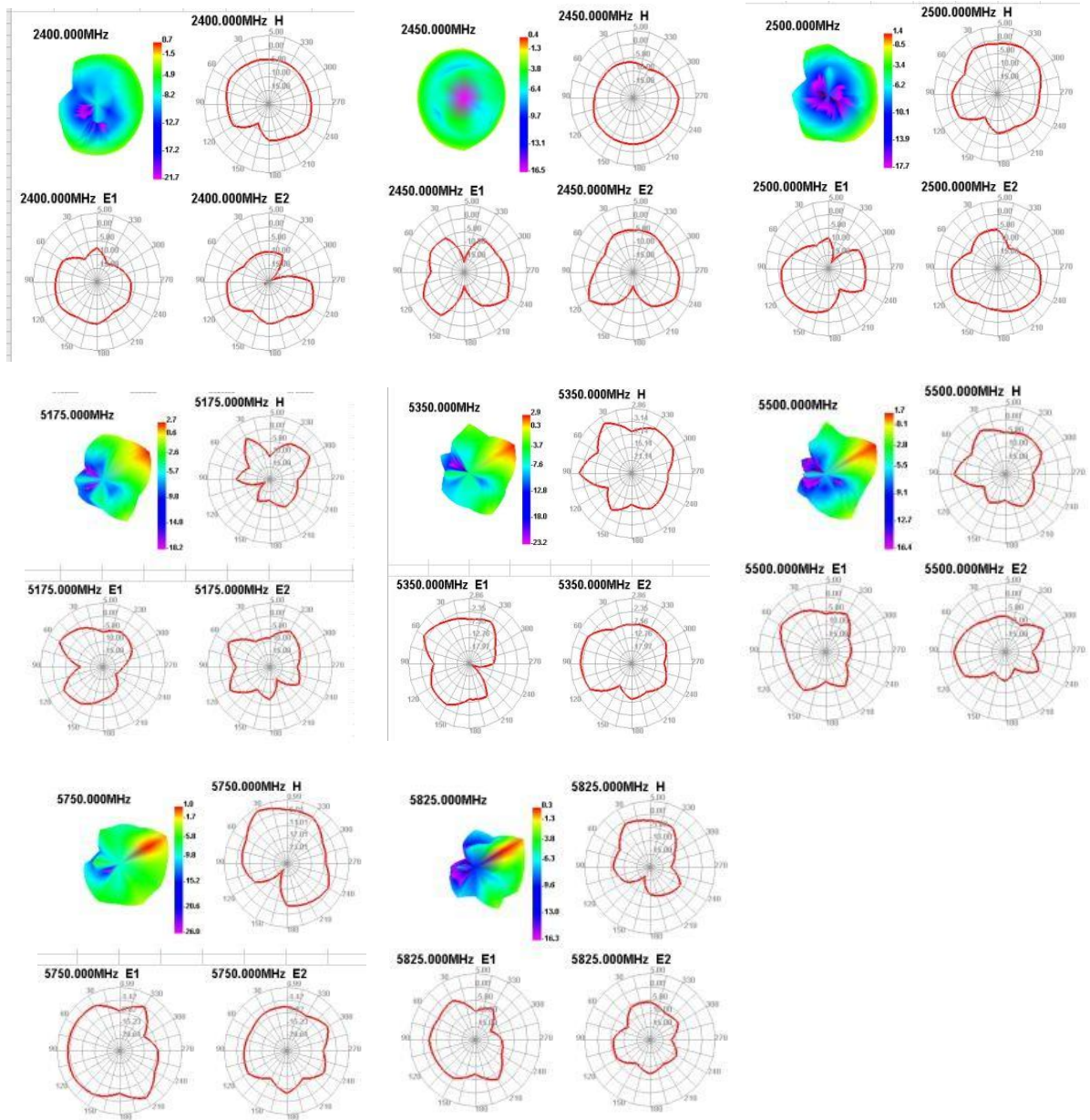


Antenna Efficiency:

2.4GWIFI天线效率:			5G WIFI天线效率:					
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.52	0.73	5125	39.84	2.05	5500	38.54	1.71
2410	41.79	0.98	5150	38.6	1.57	5525	36.63	0.53
2420	40.41	0.73	5175	42.05	2.65	5550	35.22	0.35
2430	41.15	0.65	5200	37.26	1.82	5575	37.18	0.76
2440	39.9	0.28	5225	41.25	2.62	5600	37.39	1.05
2450	38.87	0.37	5250	40.59	2.27	5625	38.78	1.66
2460	40.13	0.44	5275	41.35	2.48	5650	37.23	1.22
2470	44.04	1.01	5300	42.37	2.49	5675	36.1	1.44
2480	42.02	0.8	5325	42.97	2.68	5700	36.27	1.62
2490	46.06	1.58	5350	42.51	2.86	5725	35.55	1.28
2500	45.75	1.35	5375	45.18	3.49	5750	35.92	0.99
			5400	41.74	2.1	5775	35.49	0.86
			5425	42.14	3.12	5800	32.1	0.04
			5450	40.96	2.42	5825	34.5	0.34
			5475	40.55	2.21			

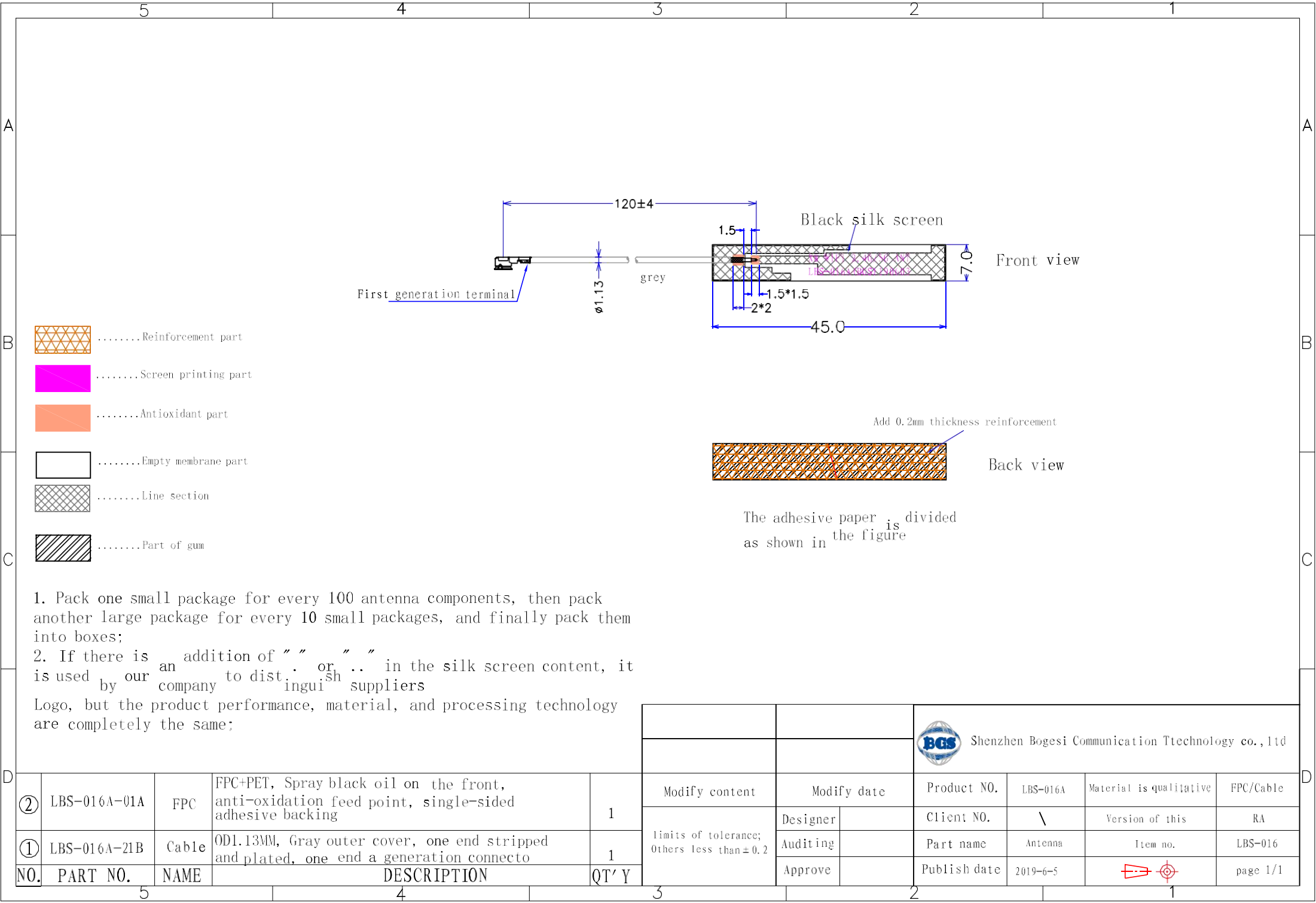


3.3: Antenna efficiency and gain



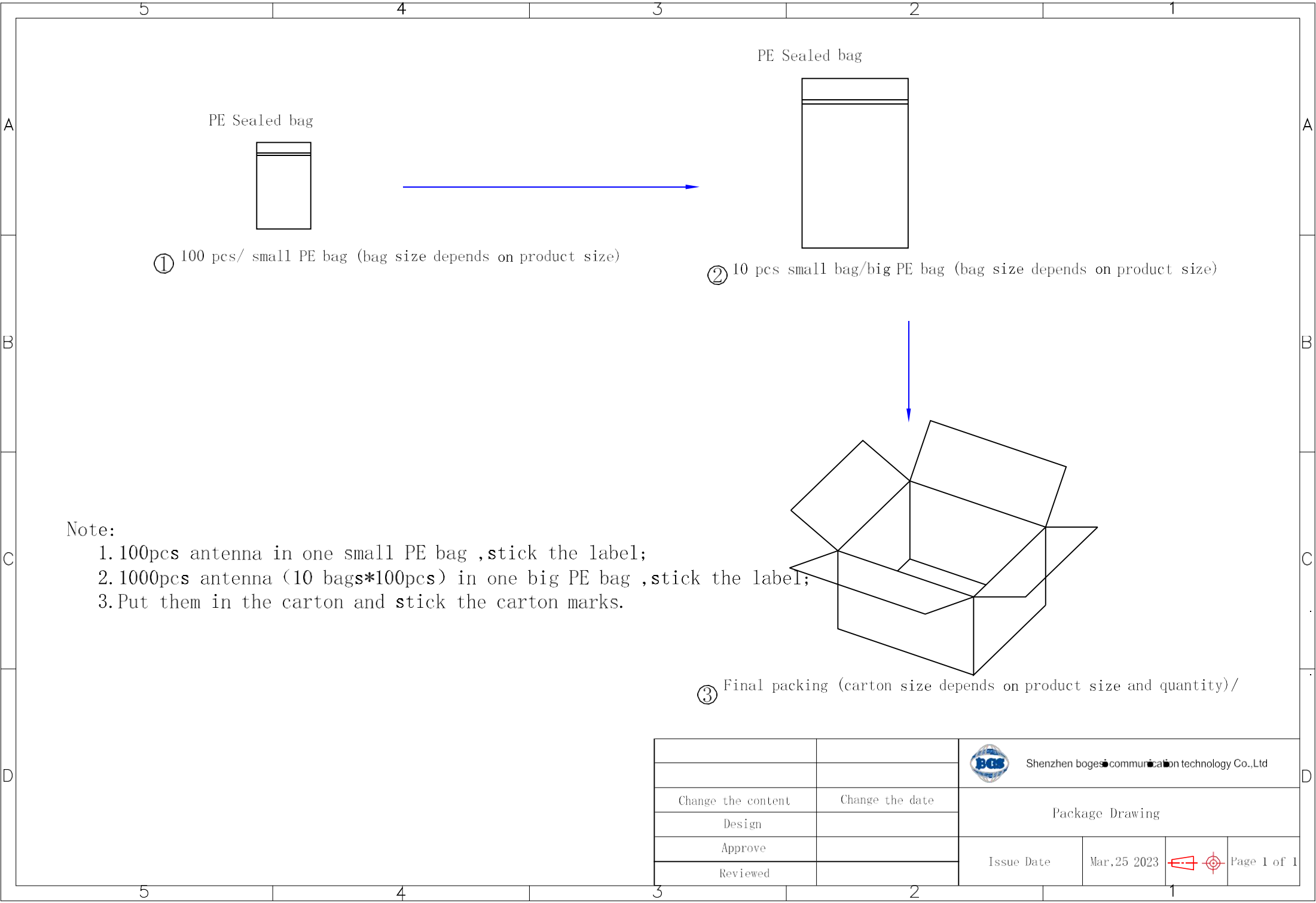
3.5: Active test data

Band	Channel	TRP	TIS
		11g/6M	11g/54M
2.4G	Low	9.2	-64.55
	Mid	12.37	-66.82
	High	9.81	-67.44
		11a/6M	11a/54M
5G	Low	6.2	-65.64
	Mid	5.41	-64.62
	High	5.21	-64.37



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;

②	LBS-016A-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-016A	Material is qualitative	FPC/Cable	
					limits of tolerance; Others less than ± 0.2	Designer		Client NO.	\	Version of this	RA	
①	LBS-016A-21B	Cable	OD1.13MM, Gray outer cover, one end stripped and plated, one end a generation connecto	1			Auditing		Part name	Antenna	Item no.	LBS-016
					Approve			Publish date	2019-6-5	 	page 1/1	
NO.	PART NO.	NAME	DESCRIPTION		QT' Y							



Note:

- 1.100pcs antenna in one small PE bag ,stick the label;
- 2.1000pcs antenna (10 bags*100pcs) in one big PE bag ,stick the label;
- 3.Put them in the carton and stick the carton marks.

		 Shenzhen boges communication technology Co.,Ltd			
Change the content	Change the date	Package Drawing			
Design					
Approve					
Reviewed		Issue Date	Mar,25 2023		Page 1 of 1