



Antenna Datasheet

Product OC: Y0CAJ0CA6NA

Version: 1.0

Date: 2026-04-17

Product Name: Internal Combo Antenna

Key Features:

Frequency Band: 5G ANT 0 & 6: 3300–4200 MHz

5G ANT 1 & 3 & 5 & 7: 617–894 MHz, 1695–2690 MHz, 3300–4200 MHz

5G ANT 2 & 4: 3300–4200 MHz, 5150–5925 MHz

WIFI ANT 1 & 2 & 3: 2400–2500 MHz, 5150–5850 MHz, 5925–7125 MHz

GNSS: 1164–1189 MHz, 1565–1586 MHz

Dimensions: 156.52 * 189.17 * 71mm

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

Electrical		
Frequency Range	5G ANT0	3300–4200 MHz
	5G ANT1	617–894 MHz, 1695–2690 MHz, 3300–4200 MHz
	5G ANT2	3300–4200 MHz, 5150–5925 MHz
	5G ANT3	617–894 MHz, 1695–2690 MHz, 3300–4200 MHz
	5G ANT4	3300–4200 MHz, 5150–5925 MHz
	5G ANT5	617–894 MHz, 1695–2690 MHz, 3300–4200 MHz
	5G ANT6	3300–4200 MHz
	5G ANT7	617–894 MHz, 1695–2690 MHz, 3300–4200 MHz
	WIFI ANT1	2400–2500 MHz, 5150–5850 MHz, 5925–7125 MHz
	WIFI ANT2	2400–2500 MHz, 5150–5850 MHz, 5925–7125 MHz
	WIFI ANT3	2400–2500 MHz, 5150–5850 MHz, 5925–7125 MHz
	GNSS	1164–1189 MHz, 1565–1586 MHz
Impedance		50 Ω
Polarization	5G ANT0/1/2/3/4/5/6/7	Linear
	WIFI ANT1/2/3	Linear
	GNSS	RHCP
Radiation Pattern		Omni-directional

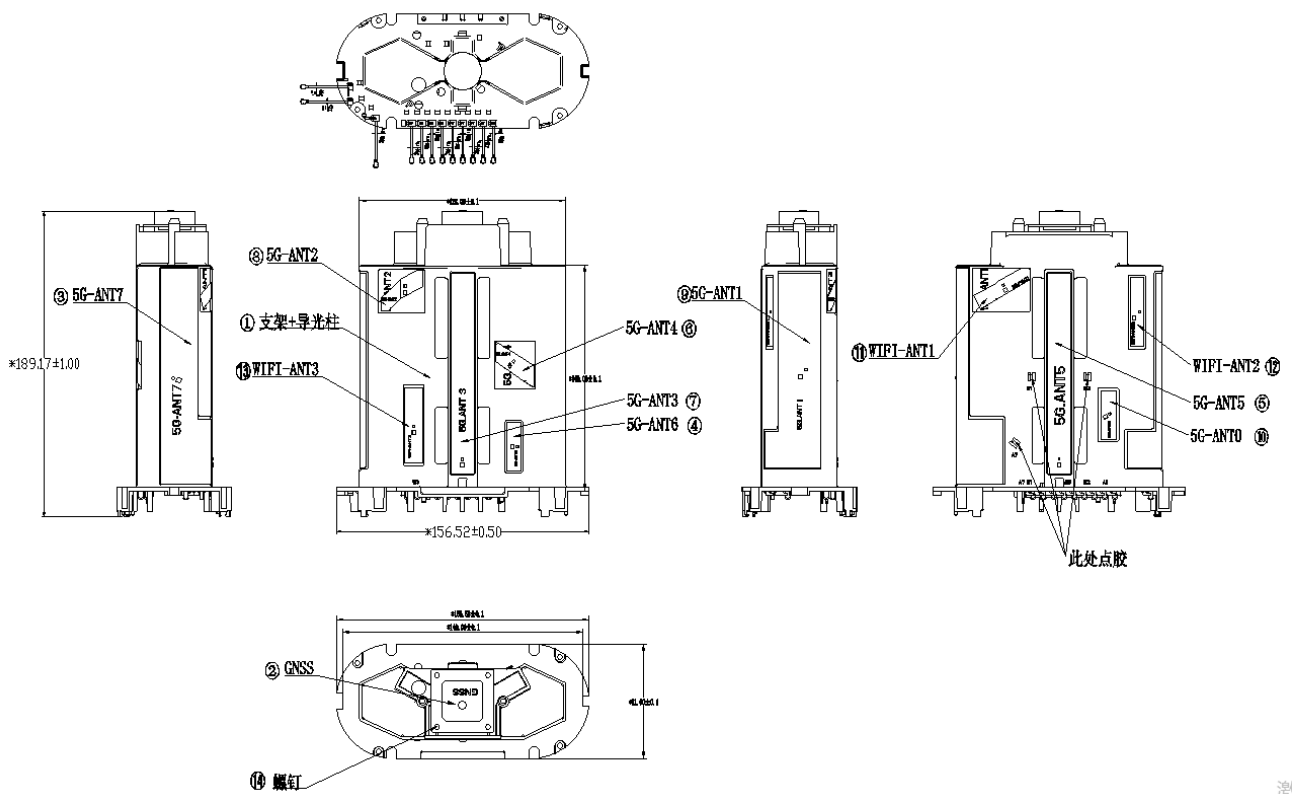
VSWR	5G ANT0	≤ 0.5
	5G ANT1	≤ 0.5
	5G ANT2	≤ 1.7
	5G ANT3	≤ 3.9
	5G ANT4	≤ 2.1
	5G ANT5	≤ 2.8
	5G ANT6	≤ 0
	5G ANT7	≤ 1
	WIFI ANT1	≤ 2.3
	WIFI ANT2	≤ 2.9
	WIFI ANT3	≤ 2.9
	GNSS	≤ 2.0
Peak Gain	5G ANT0	5.0 dBi
	5G ANT1	4.5 dBi
	5G ANT2	3.7 dBi
	5G ANT3	3.9 dBi
	5G ANT4	4.8 dBi
	5G ANT5	5.0 dBi
	5G ANT6	5.9 dBi
	5G ANT7	4.4 dBi
	WIFI ANT1	3.8 dBi
	WIFI ANT2	4.3 dBi
	WIFI ANT3	5.4 dBi
	GNSS	1.5dBi

1.2. Mechanical & Environmental

Mechanical		
Antenna Dimensions-	156.52 mm × 189.17 mm × 71 mm	
Material & Color	PC & White	
Cable Type & Color & Length	5G ANT0	Φ1.13 & Gray & 110mm
	5G ANT1	Φ1.13 & White & 137mm
	5G ANT2	Φ1.13 & Black & 190mm
	5G ANT3	Φ1.13 & Gray & 102mm
	5G ANT4	Φ1.13 & White & 140mm
	5G ANT5	Φ1.13 & Black & 68mm
	5G ANT6	Φ1.13 & Gray & 102mm
	5G ANT7	Φ1.13 & White & 151mm
	WIFI ANT1	Φ1.13 & Black & 233mm
	WIFI ANT2	Φ1.13 & White & 210mm
	WIFI ANT3	Φ1.13 & Gray & 144mm
	GNSS	Φ1.13 & Black & 243mm
Connector Type	RF 1	
Weight	Typ. 234 g	
Environmental		
Operation Temperature	-40 °C to +85 °C	
Storage Temperature	-40 °C to +85 °C	
RoHS Compliant	Yes	

1.3. Antenna Assembly

2 Drawing

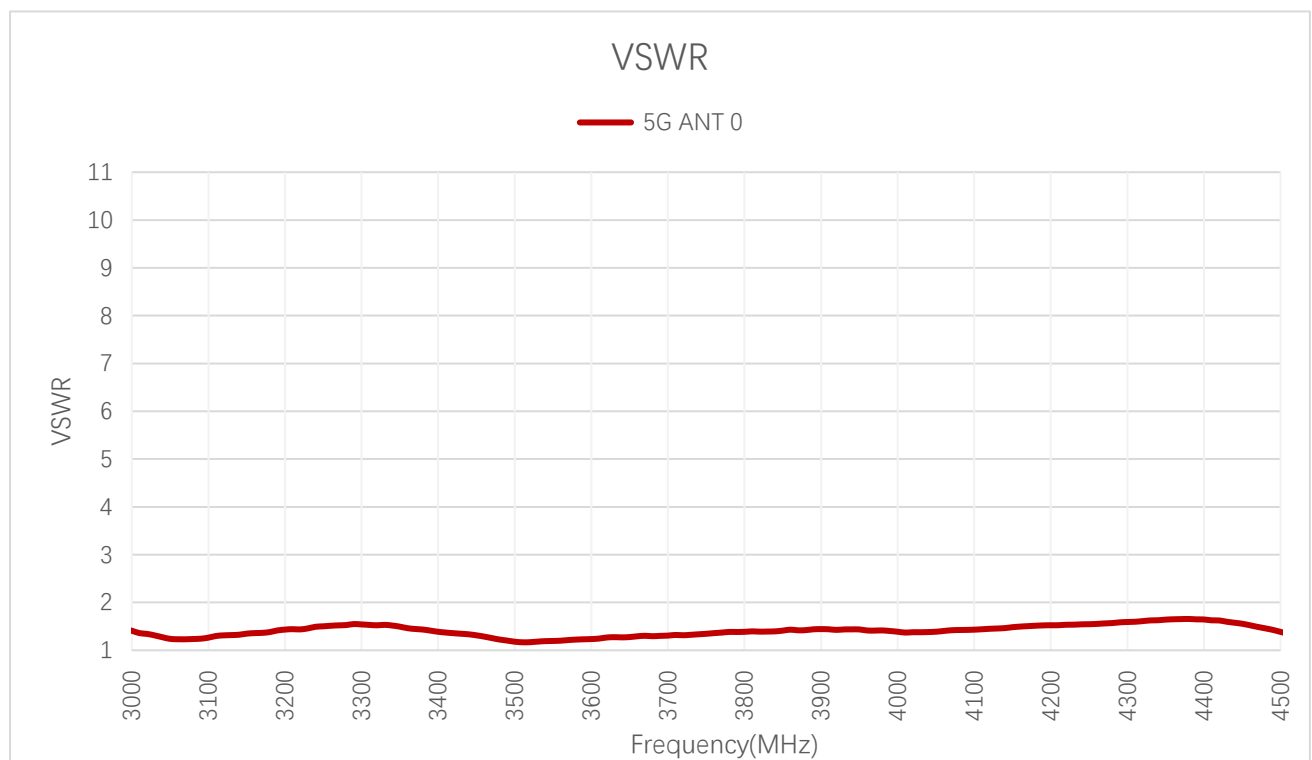


UNIT:mm

3 Detailed Performance

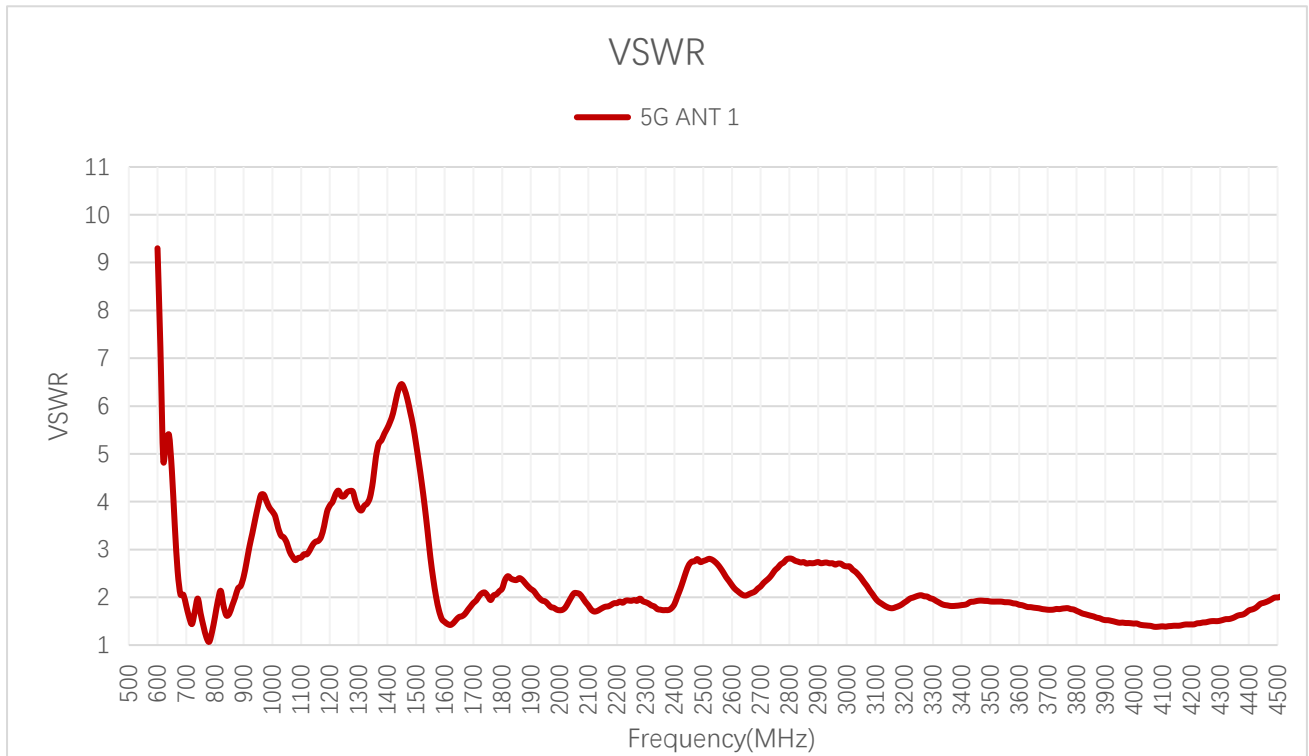
3.1. S-Parameter Test

3.1.1. VSWR



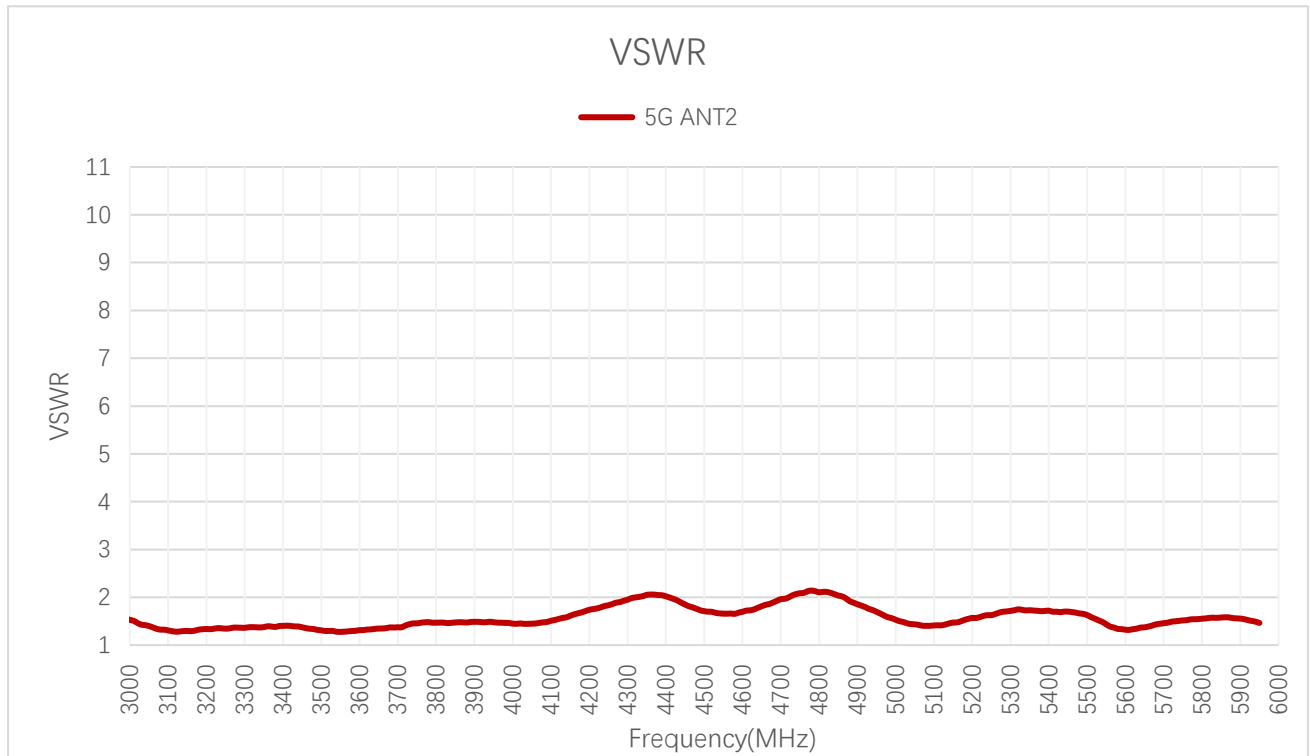
VSWR

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	-	-	1.5	1.2	1.3	1.4	1.4	1.5	1.4	-



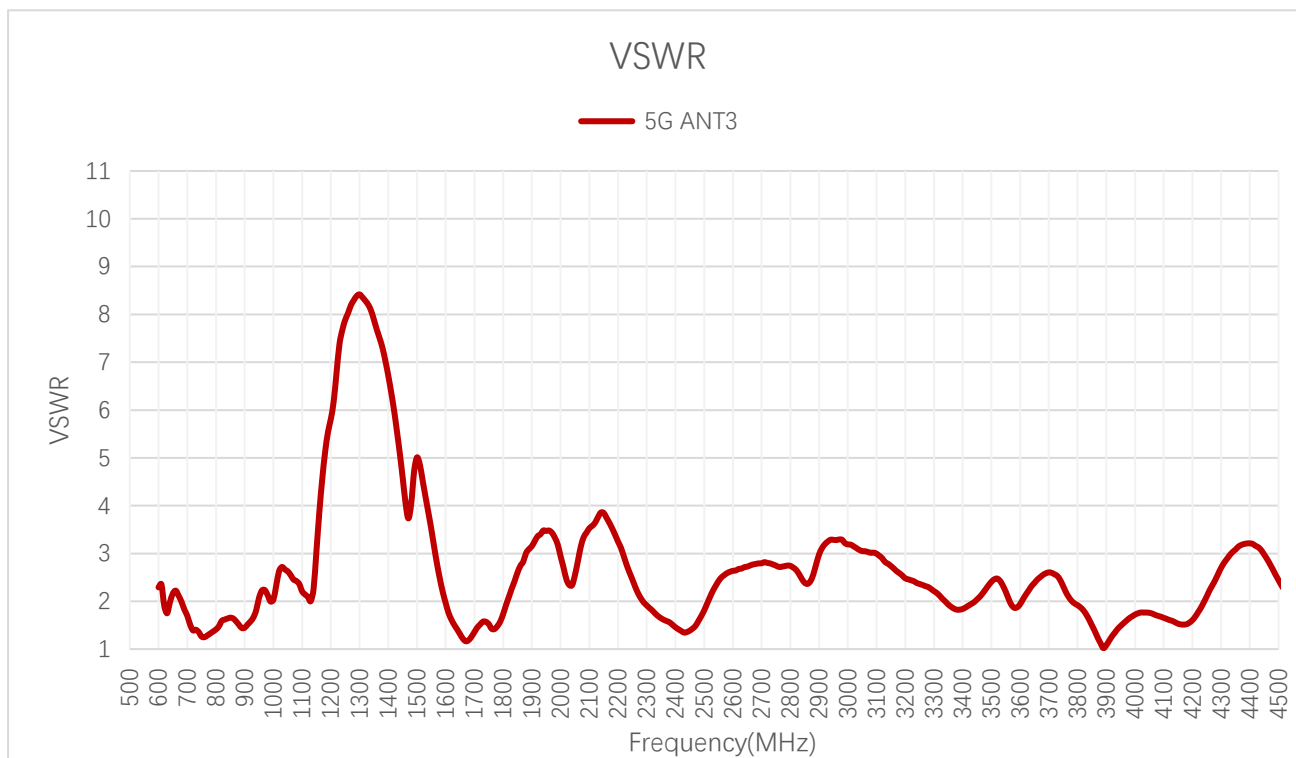
VSWR

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
VSWR	7.2	5.4	1.4	1.6	2.4	1.9	2.2	1.8	1.9	2.2
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	2.7	2.0	2.0	1.9	1.7	1.5	1.4	1.4	2.0	-



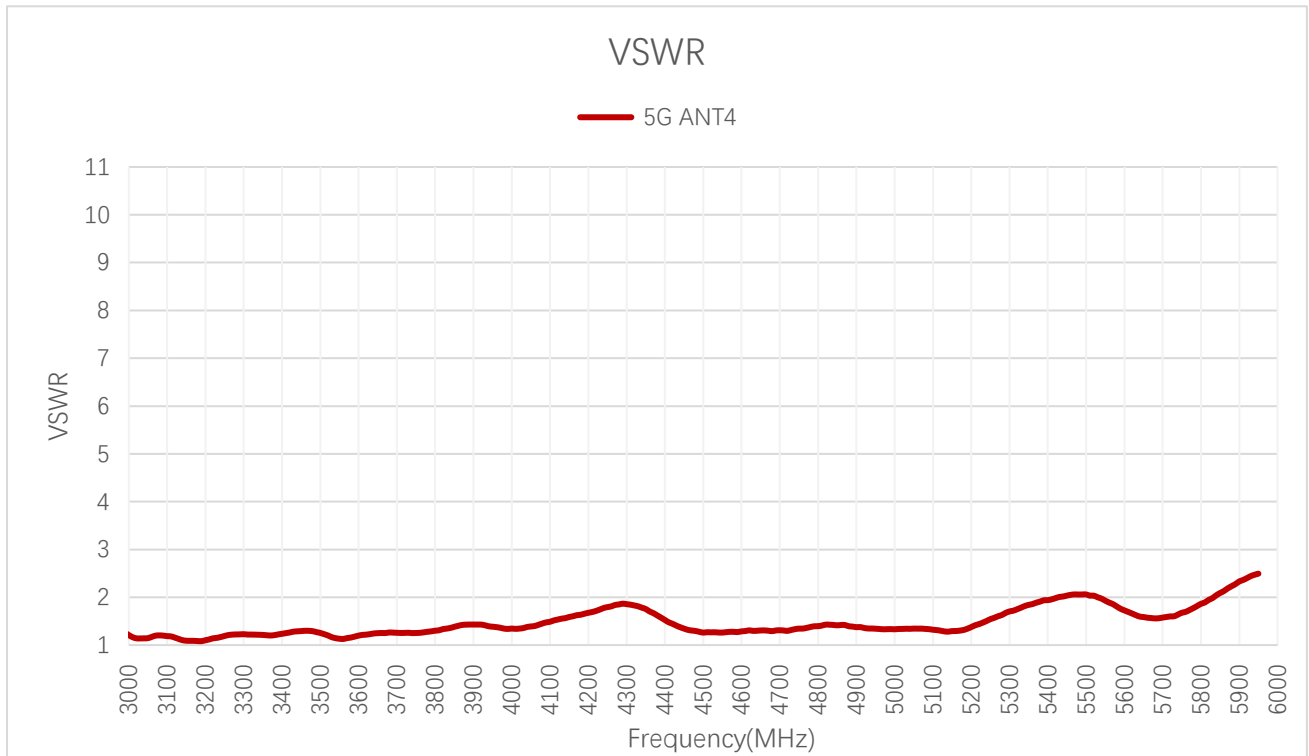
VSWR

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	1.7	1.3	1.4	1.3	1.4	1.5	1.5	1.7	1.7	2.1
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
VSWR	1.5	1.6	1.7	1.3	1.6	1.6	-	-	-	-



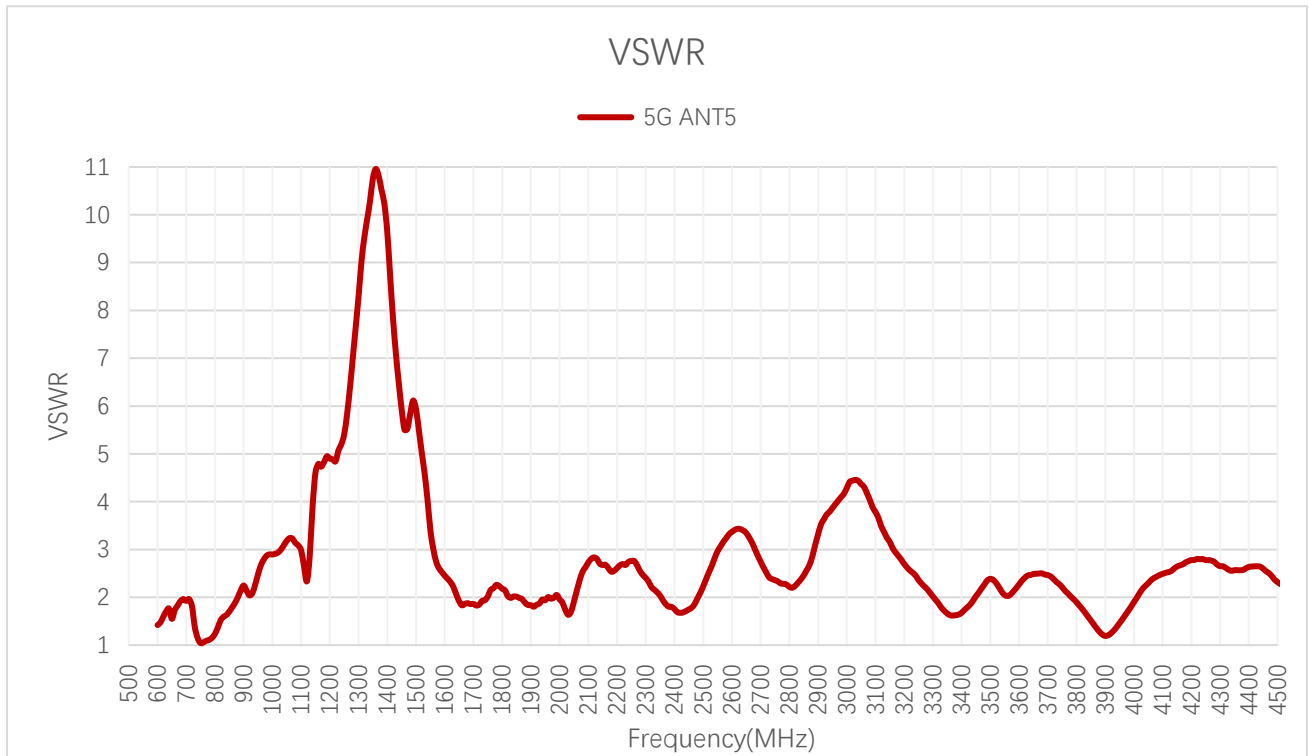
VSWR

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
VSWR	2.4	2.0	1.4	1.6	1.4	1.4	3.2	3.5	1.5	2.8
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	3.0	3.0	2.2	2.4	2.6	1.1	1.7	1.6	2.4	-



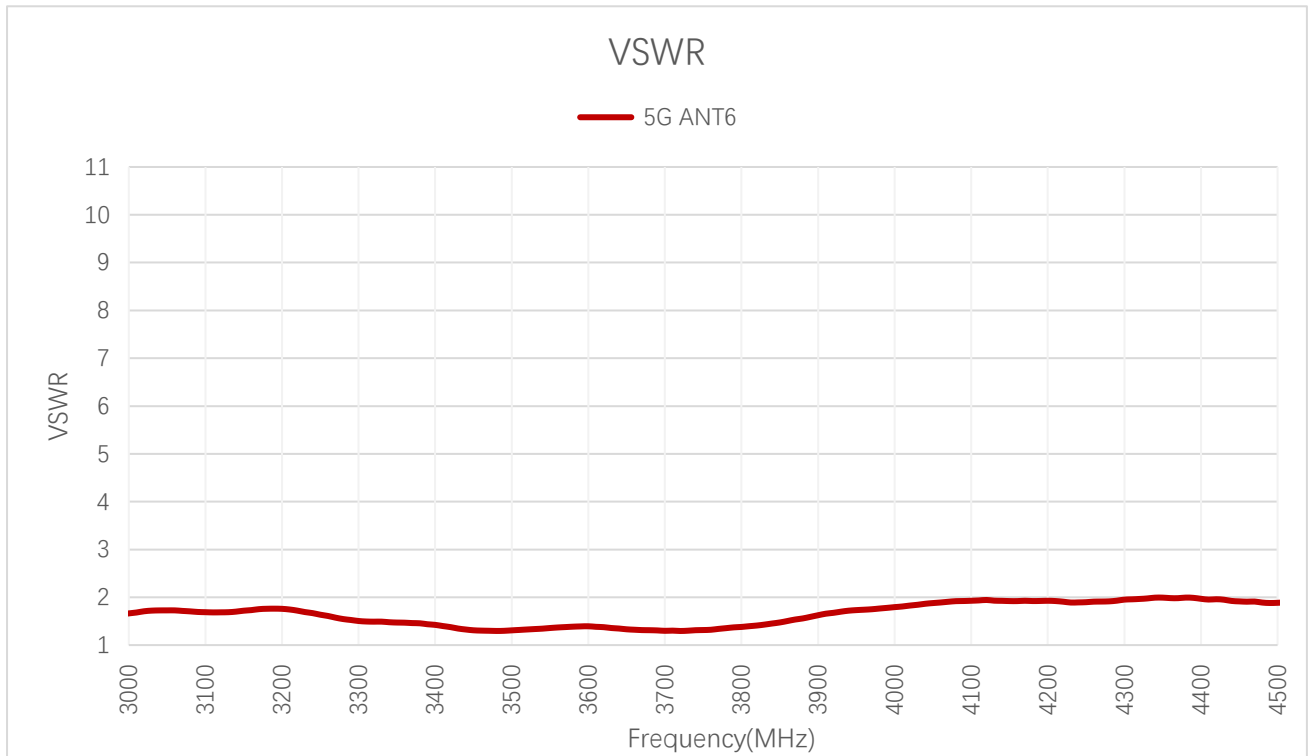
VSWR

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	1.4	1.2	1.2	1.3	1.3	1.4	1.5	1.7	1.3	1.4
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
VSWR	1.3	1.4	1.9	1.7	1.9	2.3	-	-	-	-



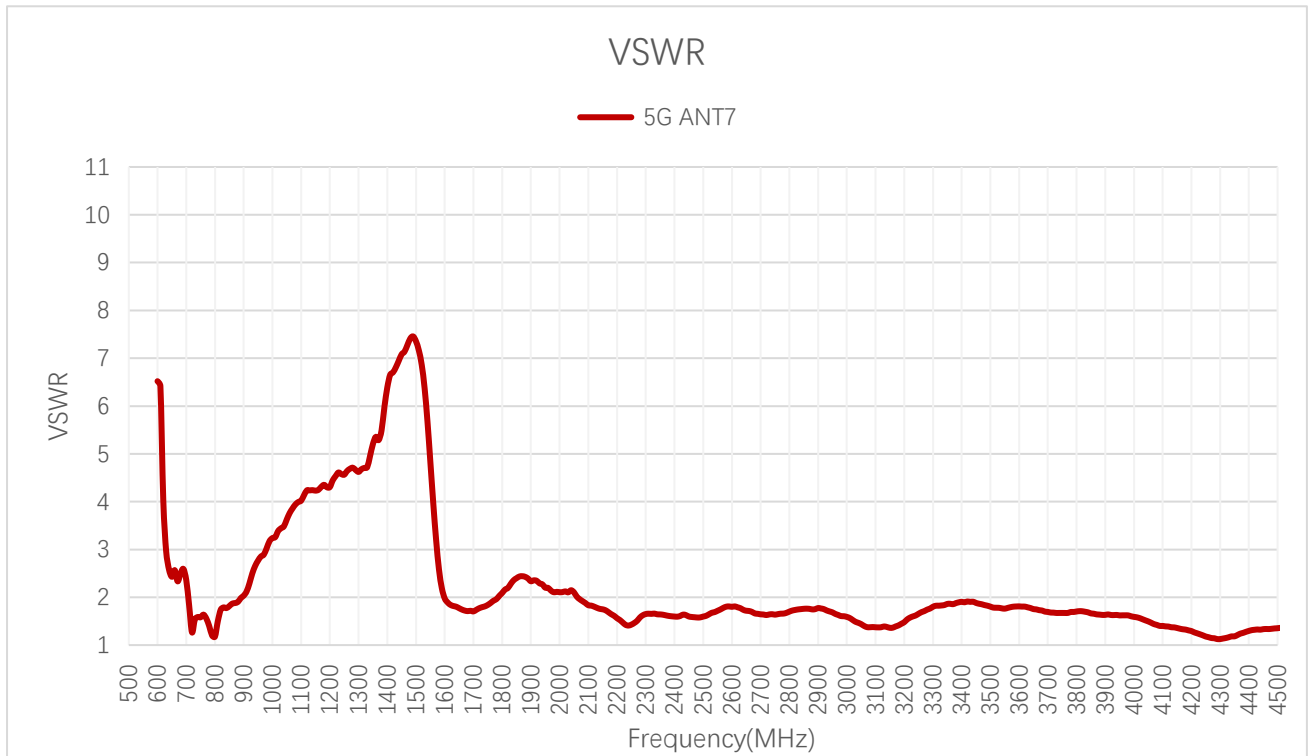
VSWR

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
VSWR	1.5	1.8	1.8	1.6	2.2	1.9	1.8	2.7	1.8	2.7
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	3.3	3.8	2.0	2.4	2.5	1.2	2.5	2.8	2.3	-



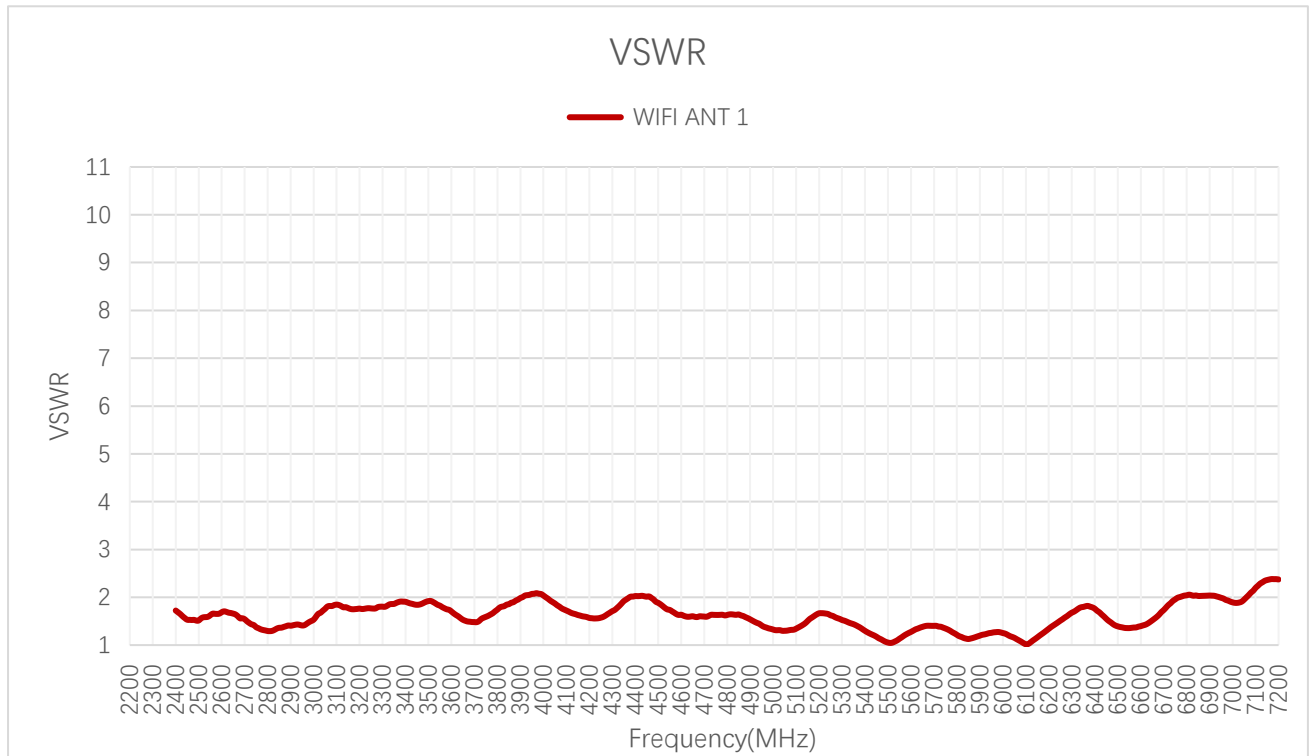
VSWR

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	-	-	1.5	1.3	1.3	1.6	1.9	1.9	1.9	-



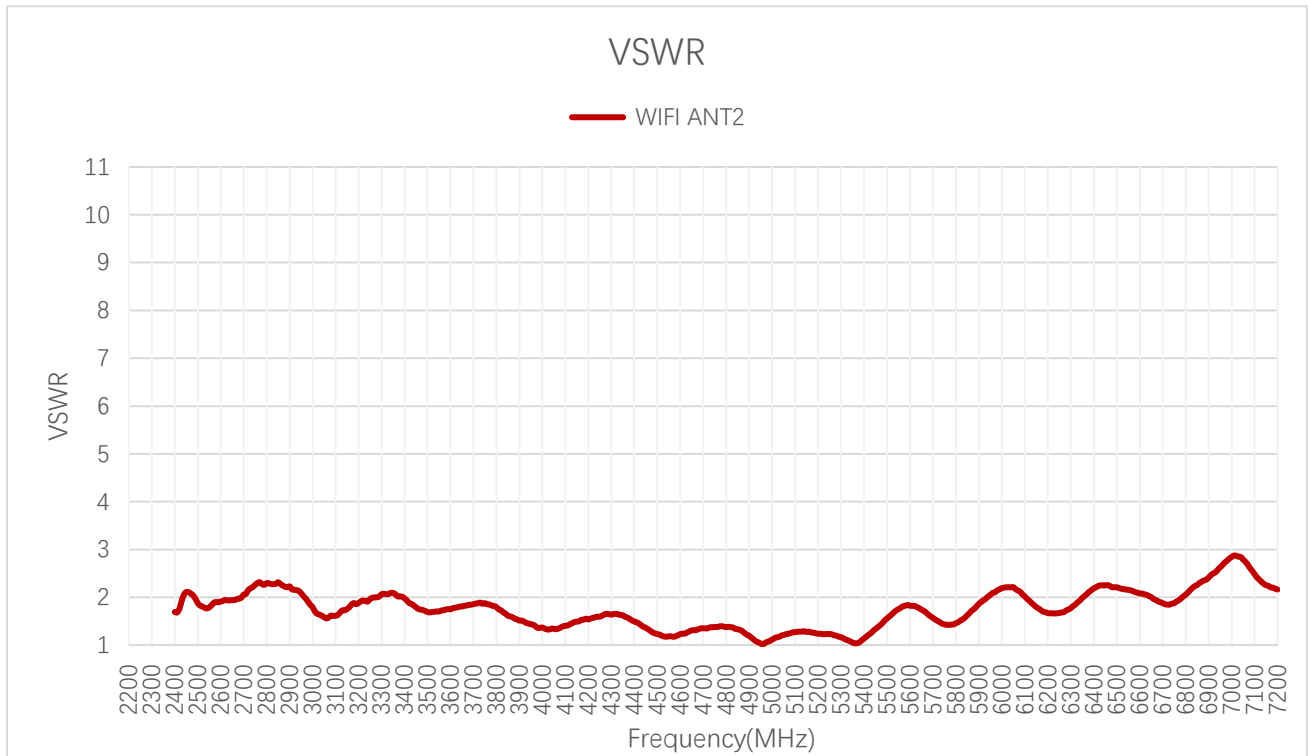
VSWR

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
VSWR	6.4	2.6	1.3	1.8	2.0	1.7	2.3	1.8	1.6	1.6
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
VSWR	1.8	1.4	1.8	1.8	1.7	1.6	1.4	1.3	1.4	-



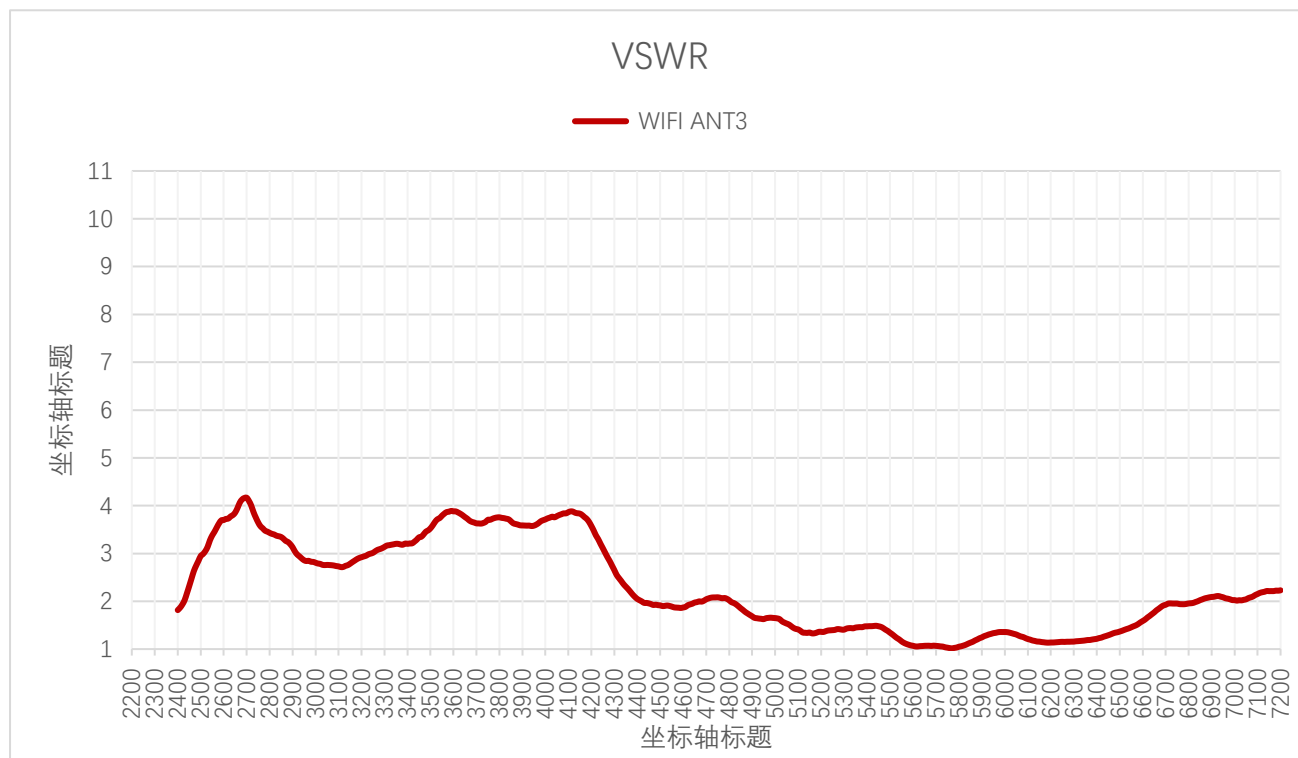
VSWR

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
VSWR	1.7	1.5	1.5	1.8	1.5	2.0	1.7	1.6	1.9	1.6
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
VSWR	1.3	1.7	1.3	1.3	1.2	1.2	1.3	1.4	2.0	2.4



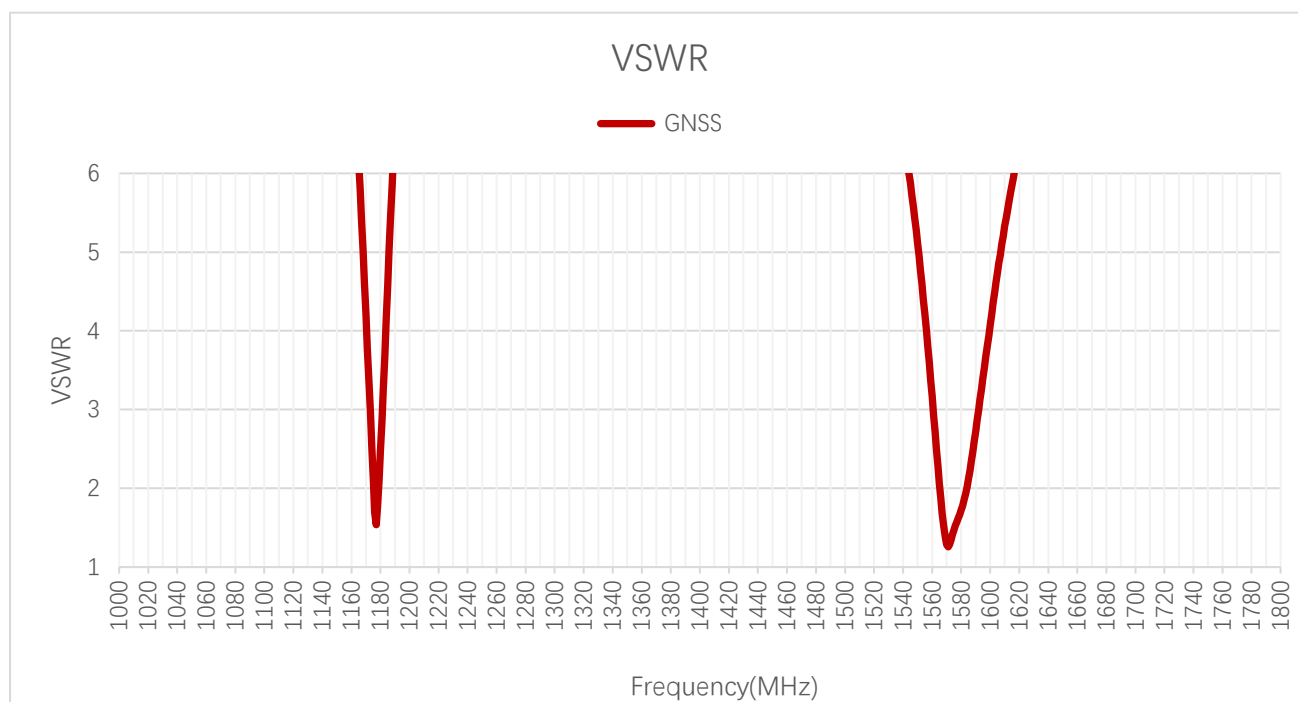
VSWR

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
VSWR	1.7	1.9	2.1	2.1	1.9	1.5	1.4	1.5	1.2	1.4
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
VSWR	1.1	1.2	1.1	1.8	1.5	1.9	1.7	2.2	2.1	2.2



VSWR

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
VSWR	1.8	2.9	4.2	3.1	3.6	3.6	3.9	3.6	1.9	2.0
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
VSWR	1.6	1.4	1.5	1.1	1.0	1.2	1.1	1.4	2.0	2.2

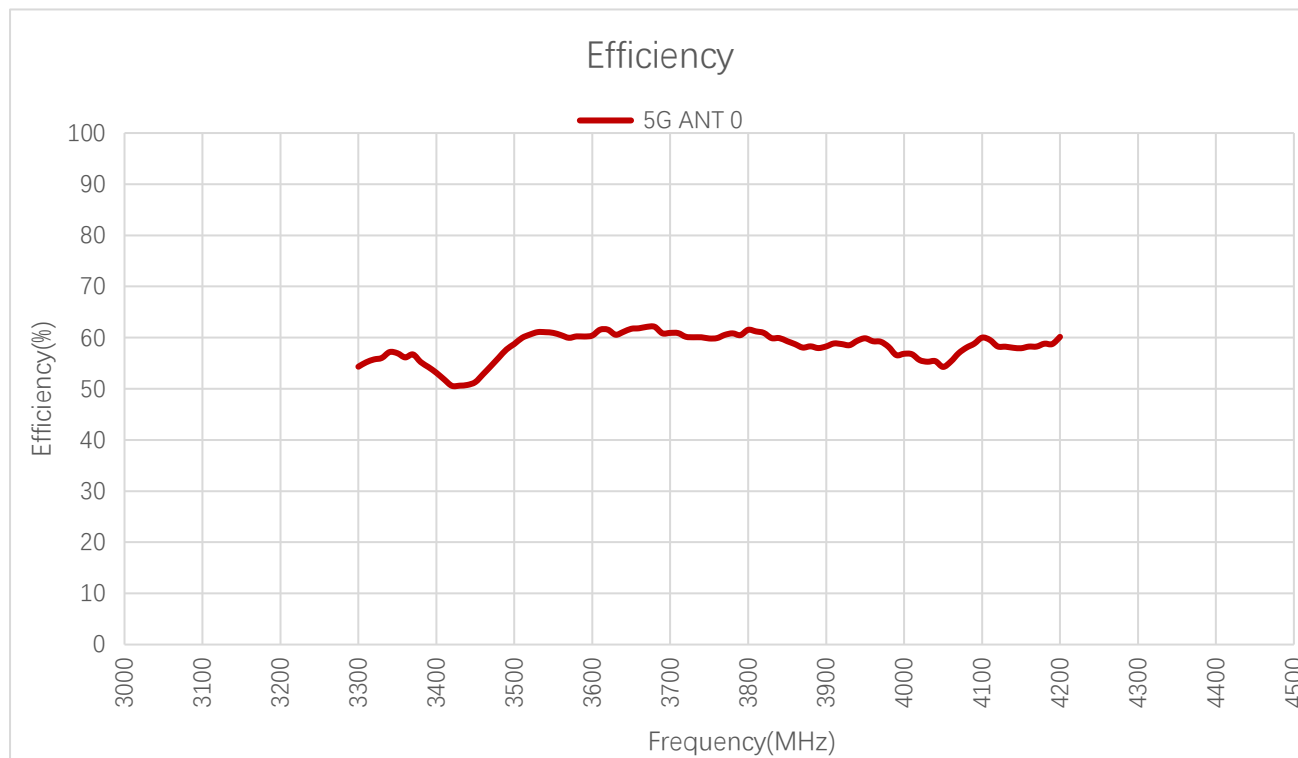


VSWR

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
VSWR	1.5	-	-	-	-	-	1.5	-

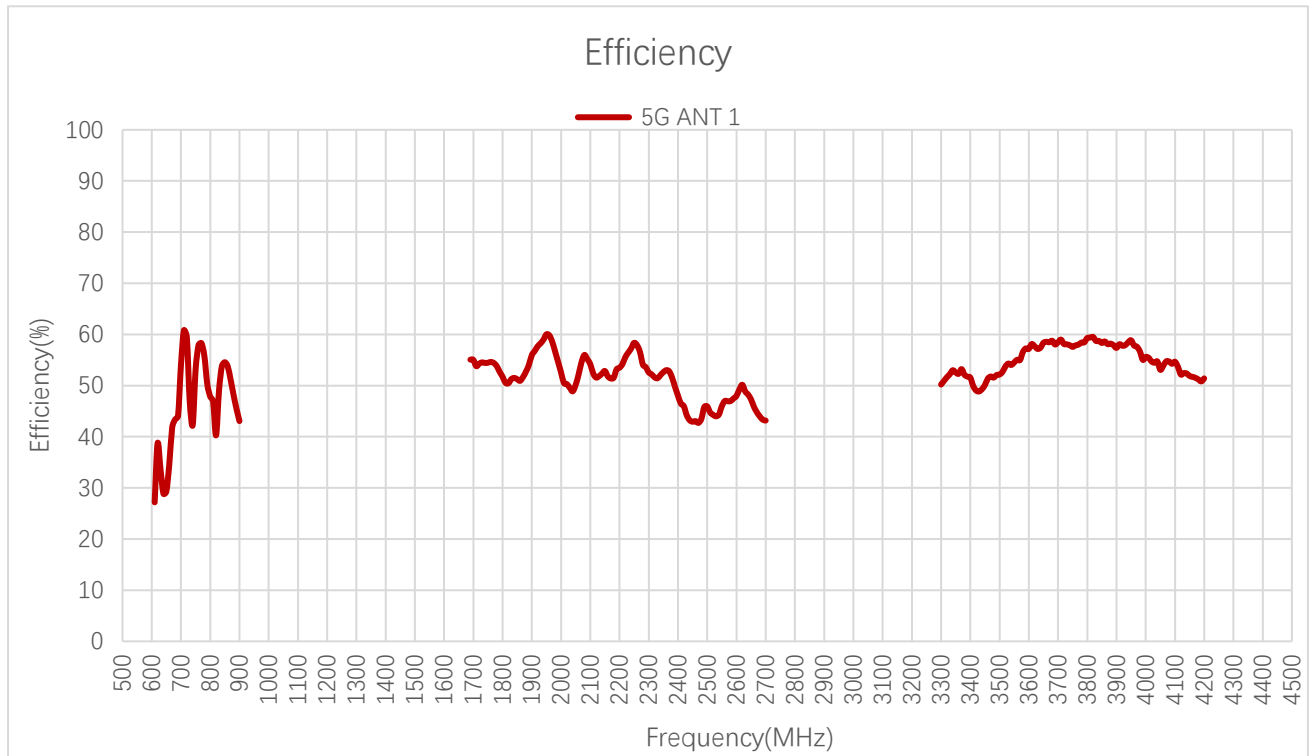
3.2. Radiation Performance Test

3.2.1. Efficiency



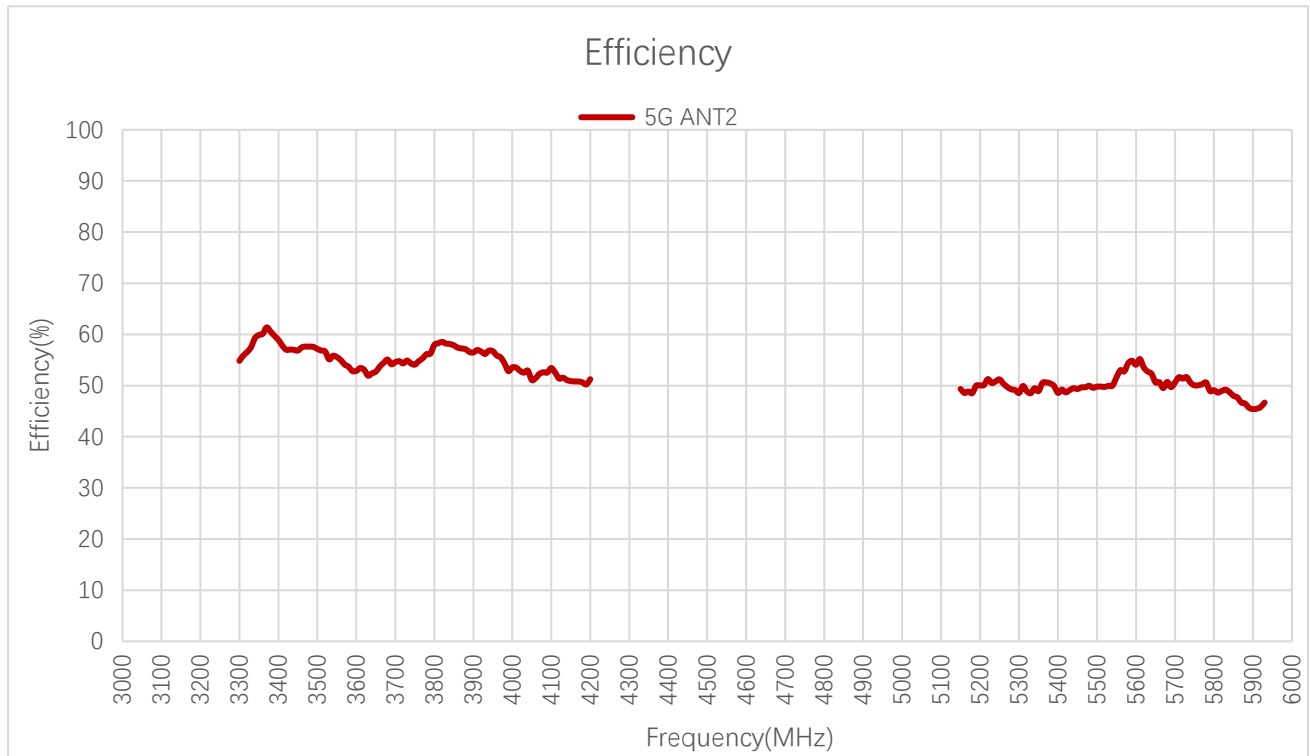
Efficiency (%)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	54.3	58.8	60.9	58.3	60.0	60.2	-	-



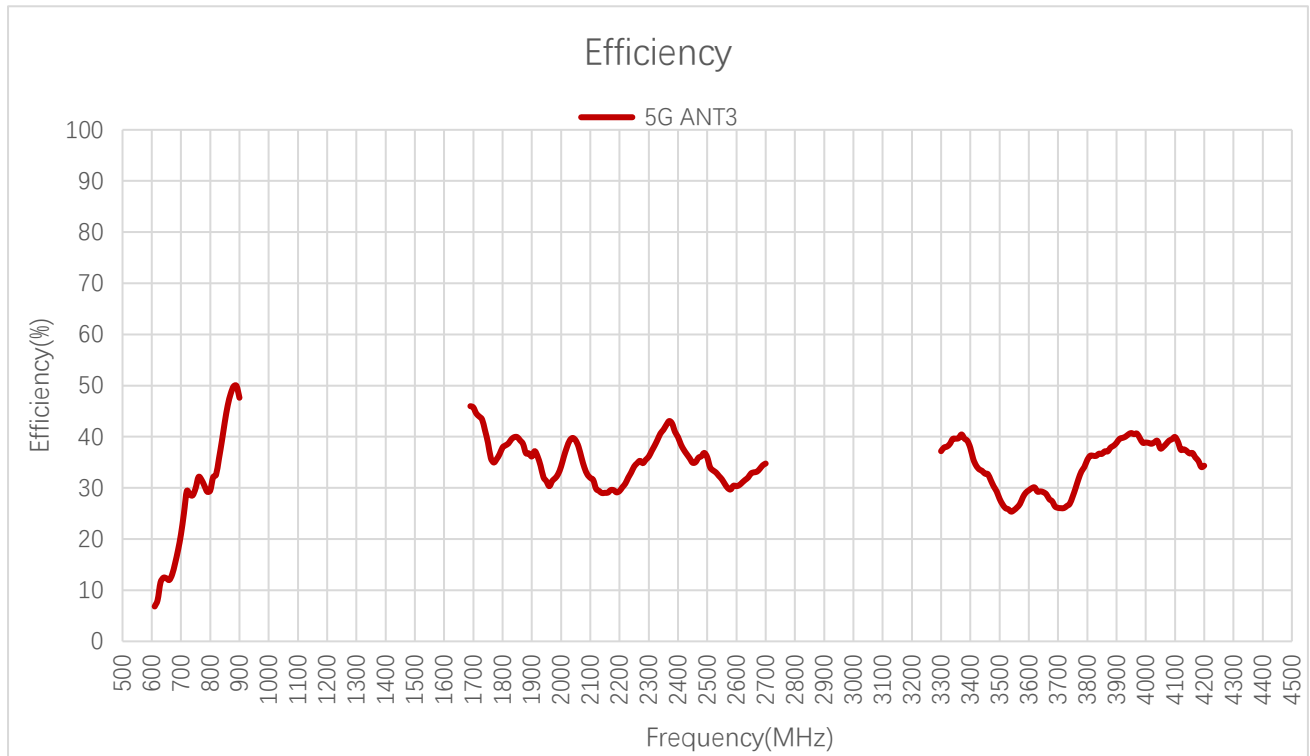
Efficiency (%)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Efficiency (%)	27.2	28.9	59.5	53.8	43.1	55.0	56.0	54.2	48.0	43.2
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	50.2	52.2	58.5	57.4	54.7	51.4	-	-



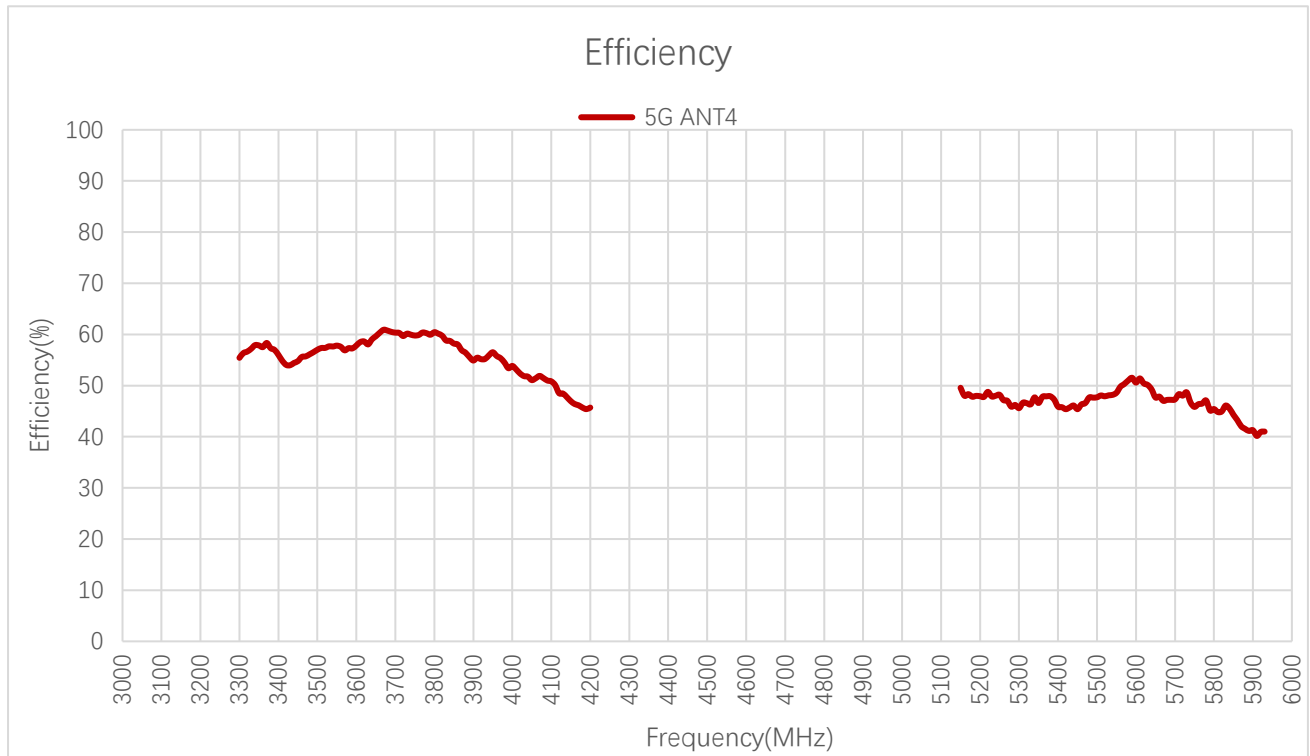
Efficiency (%)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	54.8	57.2	54.6	56.5	53.4	51.3	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Efficiency (%)	-	50.0	48.6	54.1	49.1	45.4	-	-	-	-



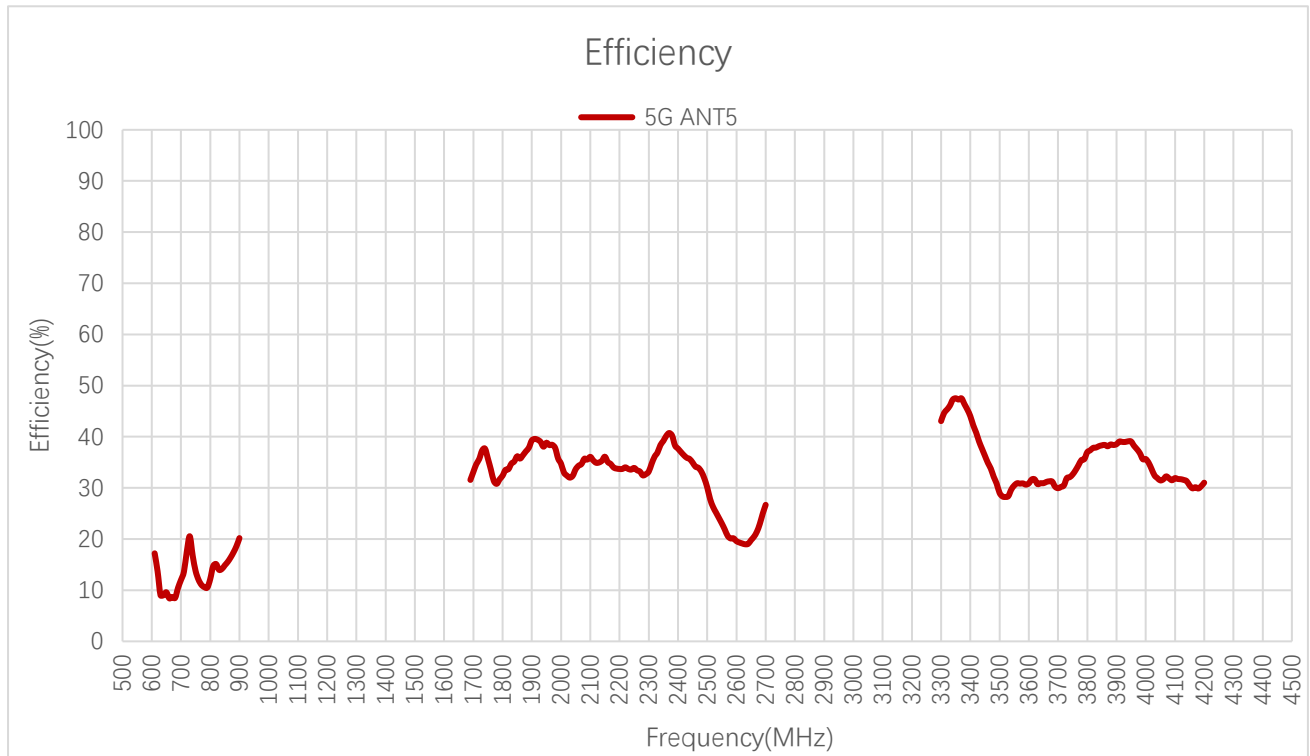
Efficiency (%)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Efficiency (%)	6.8	12.4	29.4	39.2	47.6	45.7	36.1	32.0	39.9	34.8
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	37.2	27.9	26.1	38.8	40.0	34.3	-	-



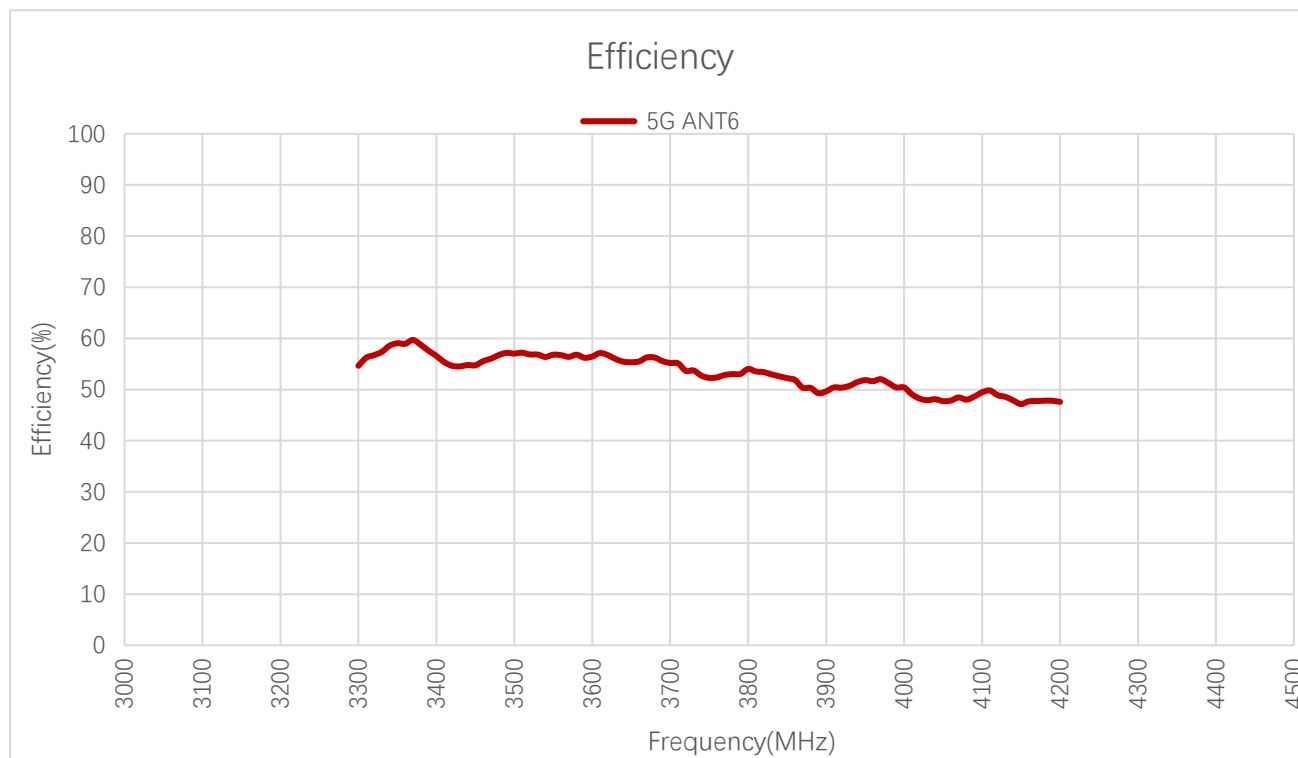
Efficiency (%)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	55.4	57.0	60.4	54.9	50.8	45.7	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Efficiency (%)	-	47.9	45.9	50.6	45.4	41.3	-	-	-	-



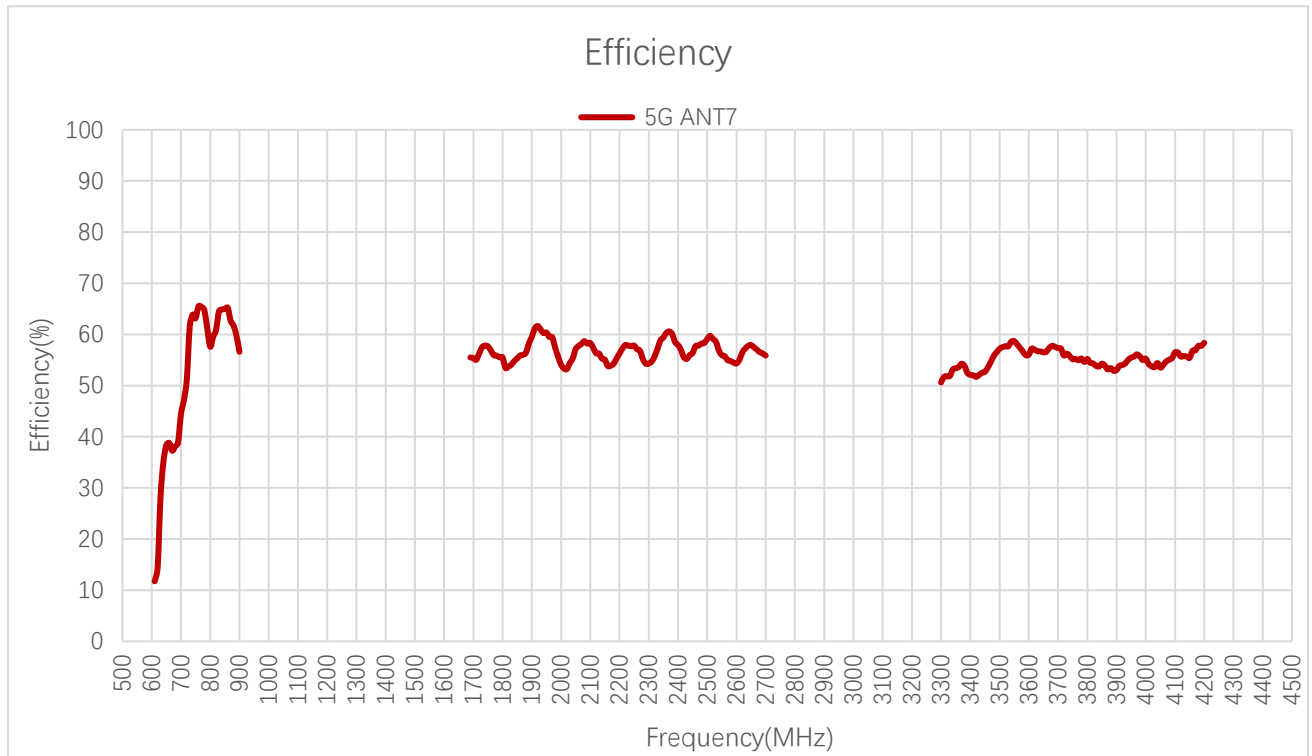
Efficiency (%)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Efficiency (%)	17.2	9.0	17.6	14.2	20.2	33.1	39.3	36.1	37.7	26.7
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	43.1	29.0	29.9	38.5	31.9	31.0	-	-



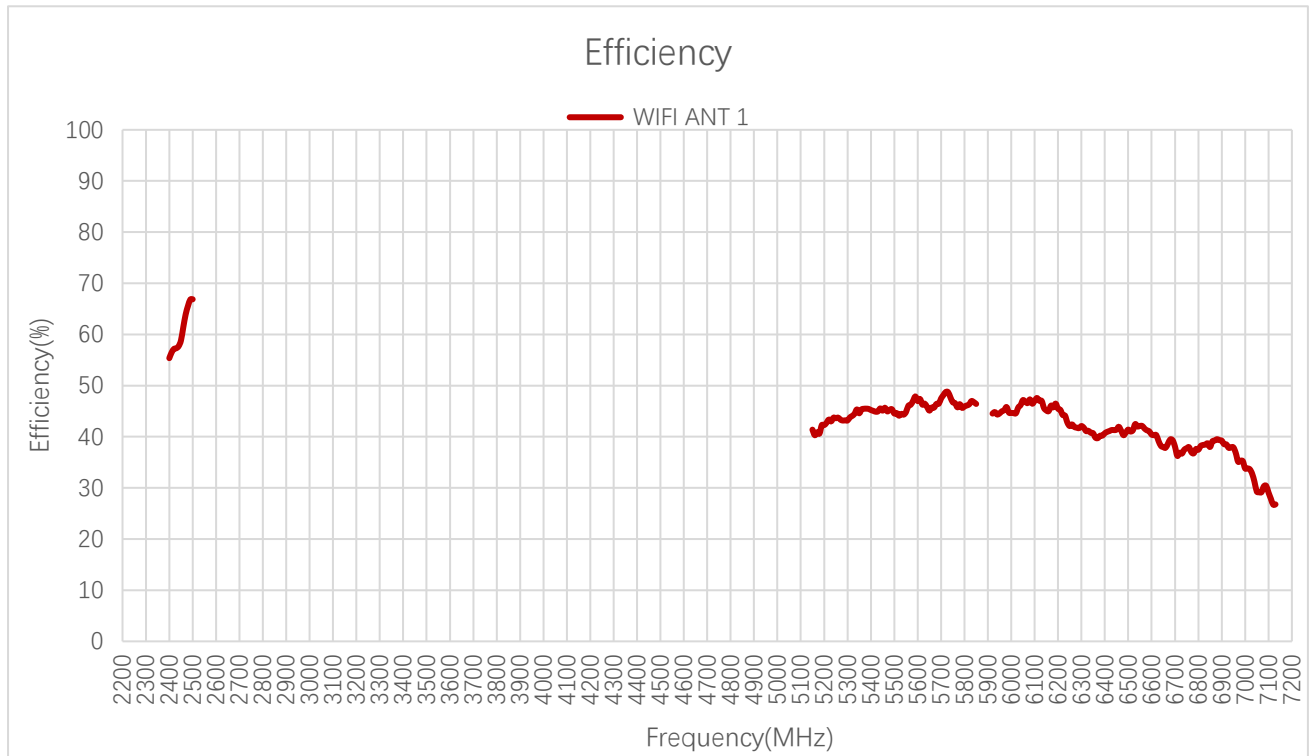
Efficiency (%)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	54.7	57.0	55.2	49.7	49.5	47.6	-	-



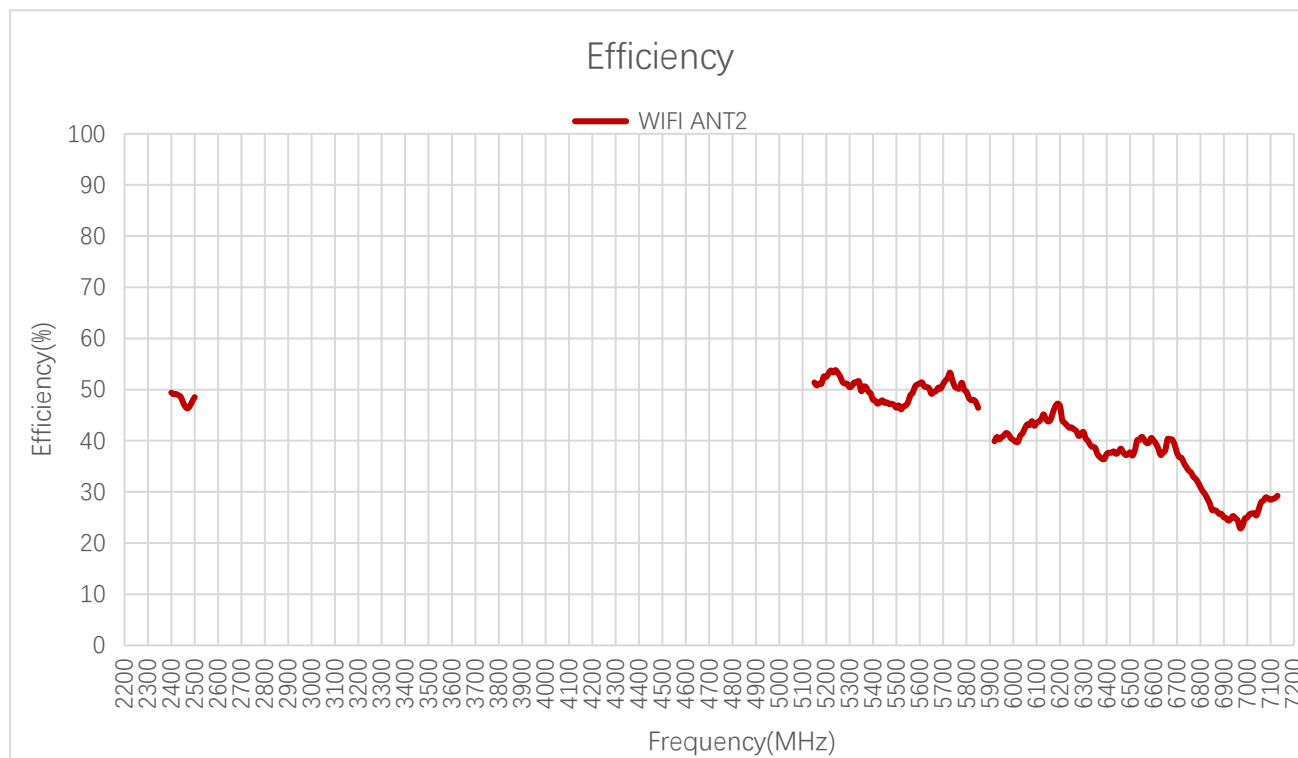
Efficiency (%)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Efficiency (%)	11.8	35.1	51.2	64.9	56.6	55.4	59.5	58.3	57.9	55.9
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Efficiency (%)	-	-	50.6	57.2	57.3	53.0	56.5	58.4	-	-



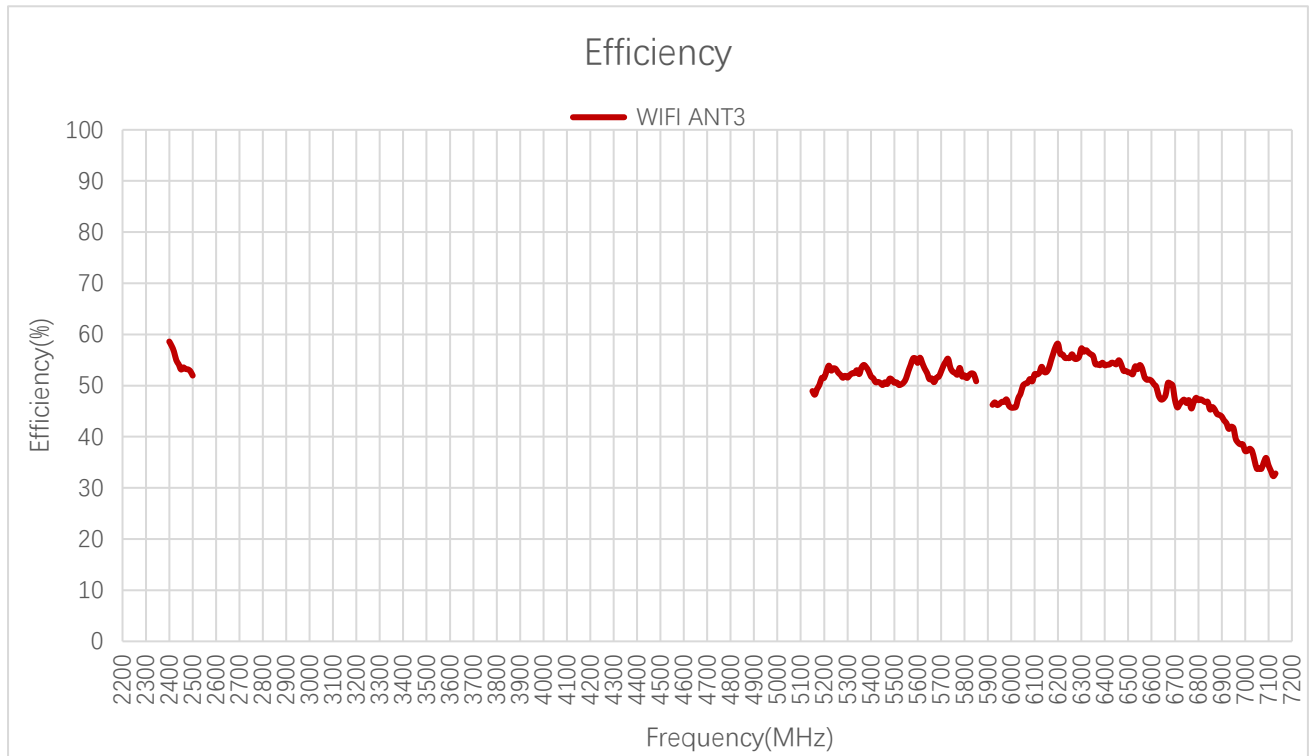
Efficiency (%)

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
Efficiency (%)	55.4	66.9	-	-	-	-	-	-	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Efficiency (%)	-	42.3	45.2	47.0	45.9	-	45.5	41.4	37.5	-



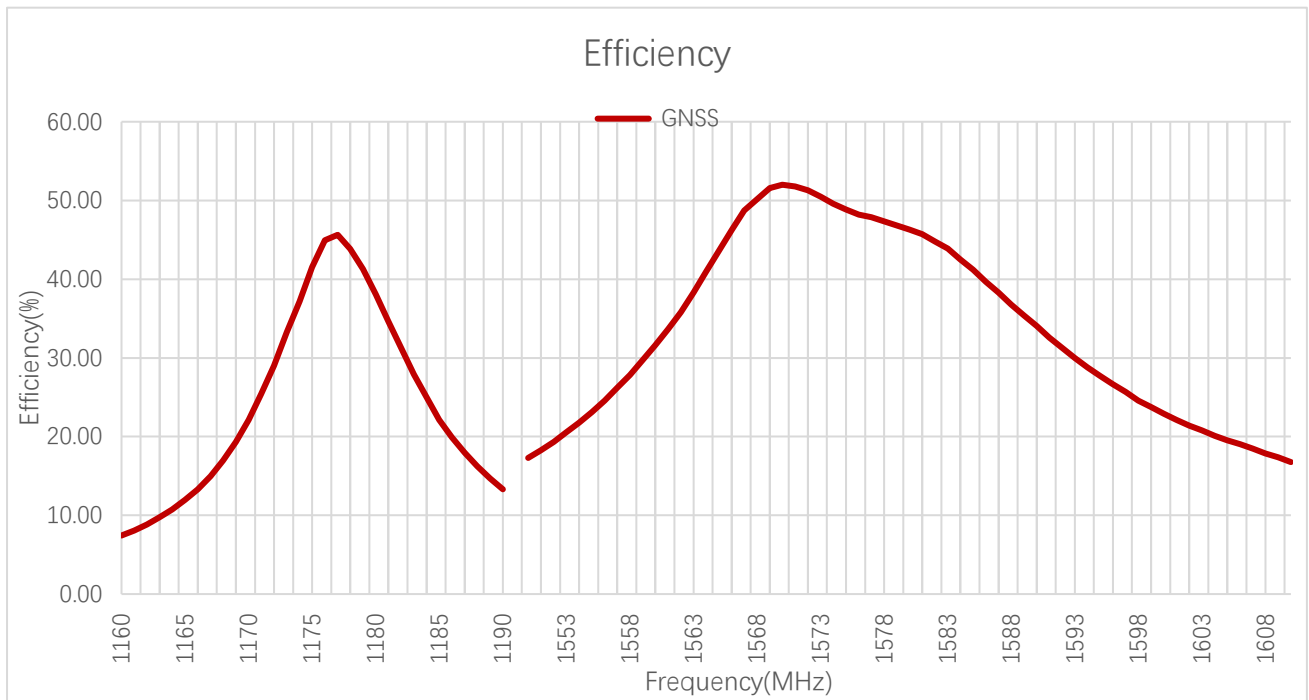
Efficiency (%)

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
Efficiency (%)	49.4	48.5	-	-	-	-	-	-	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Efficiency (%)	-	52.5	48.1	51.2	49.6	-	46.8	37.7	31.0	-



Efficiency (%)

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
Efficiency (%)	58.6	52.0	-	-	-	-	-	-	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Efficiency (%)	-	51.5	51.8	54.4	52.0	-	58.2	52.6	47.2	-



Efficiency (%)

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Efficiency (%)	45.0	-	-	-	-	-	48.8	-

3.2.2. Peak Gain

Peak Gain
5G ANT 0

Peak Gain (dBi)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	-1.1	-1.3	-1.5	-1.6	0.5	-1.4	-	-

Peak Gain

5G ANT 1

Peak Gain (dBi)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Peak Gain (dBi)	-5.0	-5.6	-2.5	-2.6	-3.6	-1.3	-1.3	-0.4	-2.2	-1.7
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	-1.3	-0.6	-0.1	0.5	-1.1	-2.5	-	-

Peak Gain

5G ANT2

Peak Gain (dBi)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	1.7	1.0	-0.2	-0.2	-0.1	-0.1	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Peak Gain (dBi)	-	1.1	0.4	0.6	0.3	-0.2	-	-	-	-

Peak Gain

5G ANT3

Peak Gain (dBi)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Peak Gain (dBi)	-8.4	-7.1	0.2	2.8	2.0	1.4	1.3	1.6	3.9	3.8
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	1.2	0.5	-0.8	0.3	2.3	1.2	-	-

Peak Gain

5G ANT4

Peak Gain (dBi)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	1.6	1.7	2.1	2.6	0.4	0.6	-	-

Peak Gain

5G ANT5

Peak Gain (dBi)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Peak Gain (dBi)	-3.3	-7.0	-4.3	-5.3	-2.2	0.6	1.8	2.3	2.8	1.2
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	2.6	0.2	1.3	1.3	-0.2	0.3	-	-

Peak Gain

5G ANT6

Peak Gain (dBi)

Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	-0.6	0	-2.2	-2.3	-3.3	-3.5	-	-

Peak Gain
5G ANT7

Peak Gain (dBi)

Frequency (MHz)	610	640	720	840	900	1700	1900	2100	2400	2700
Peak Gain (dBi)	-8.1	-4.0	-3.2	-1.4	-2.7	1.0	-1.1	-0.5	-0.5	-0.6
Frequency (MHz)	2900	3100	3300	3500	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	-	-	-0.6	-0.3	-0.4	1.0	-1.0	-1.4	-	-

Peak Gain
WIFI ANT 1

Peak Gain (dBi)

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	1.4	2.0	-	-	-	-	-	-	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Peak Gain (dBi)	-	2.0	2.6	3.8	2.3	-	1.3	1.5	-0.4	-

Peak Gain
WIFI ANT2

Peak Gain (dBi)

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	3.8	4.3	-	-	-	-	-	-	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Peak Gain (dBi)	-	3.8	3.4	3.3	3.2	-	3.1	2.1	1.8	-

Peak Gain
WIFI ANT3

Peak Gain (dBi)

Frequency (MHz)	2400	2500	2700	3300	3700	3900	4100	4200	4500	4800
Peak Gain (dBi)	5.4	4.7	-	-	-	-	-	-	-	-
Frequency (MHz)	5000	5200	5400	5600	5800	5900	6200	6500	6800	7200
Peak Gain (dBi)	-	2.2	3.7	3.6	4.1	-	5.2	4.8	4.3	-

Peak Gain

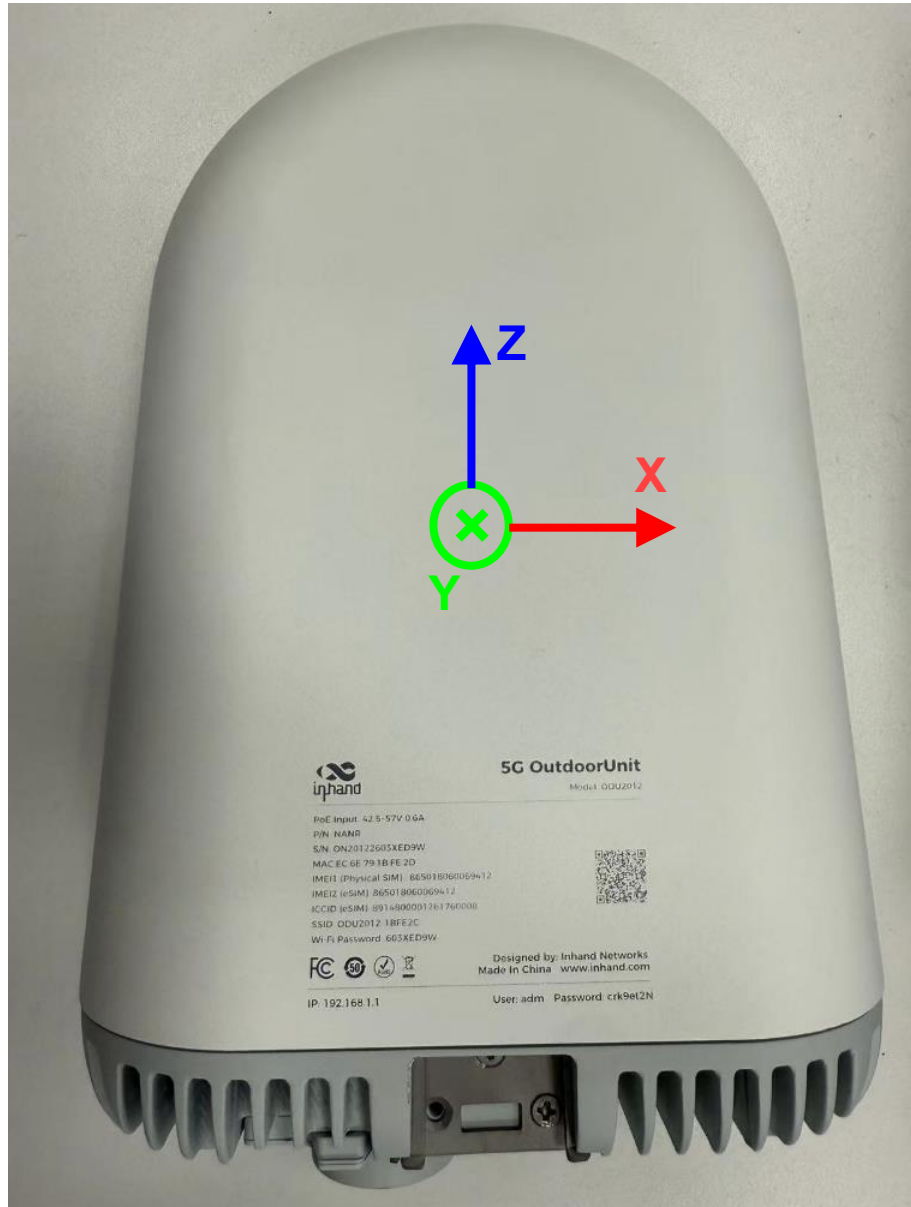
GNSS

Peak Gain (dBi)

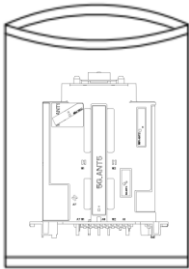
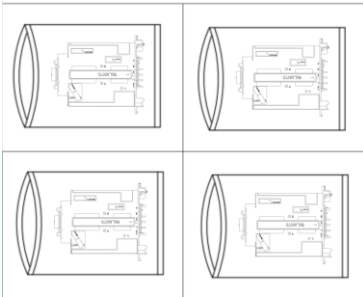
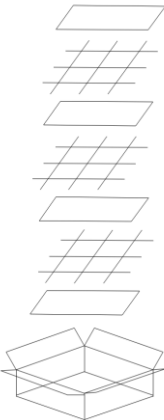
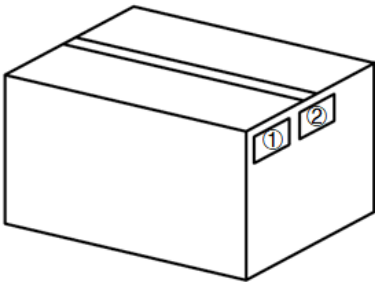
Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Peak Gain (dBi)	-0.4	-	-	-	-	-	1.5	-

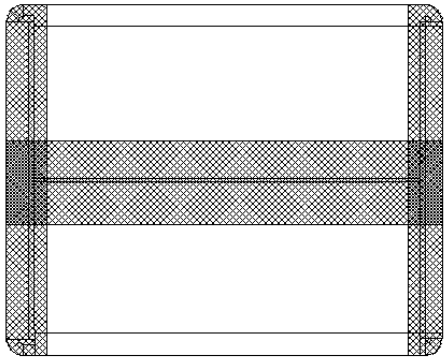
3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: HF-G-1



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Put 1 product into a bubble bag
2		Place 1 product into the cavity of the blade card, one product per cavity.
3		One layer of knife slots holds 4 products, with a total of three layers. (12 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 464 × 444 × 371 mm</u>
4		Position for Attaching Labels ① Carton Label ② Quality Label

5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Revision History

Version	Date	Author	Note
-	2026-04-17	Aslan Chen/ Kadar Liao/ Kessie Geng/ Aria Chu	Creation of the document
1.0	2026-04-17	Aslan Chen/ Kadar Liao/ Kessie Geng/ Aria Chu	First official release



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