

test report

for

The MXC-A08-BT antenna

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1. Both parties confirm

1.1 Customer

Confirmation and
signature
Customer:

Account Department / Position	Signature of confirmation	Confirmation date
Hardware / RF	Ada. Liang	2024/8/1

2 . General matters

2.1 Scope of

**applicatio
n 2.4G BT
antenna**

2.2 Use the temperature range

The service temperature range of this product is-20 to + 65℃

2.3 Storage temperature range~

This product is stored at-30 + 75℃

3. General product specifications

NO.	ITEMS	DETAILS
1	type	BT
2	frequency range	2400-2500 MHz
3	VSWR	≤ 1.3
4	GAIN	1 dBi
5	impedance	50 Ω
6	Antenna solid The present form	PCB

4. Electrical performance test data of the product

4.1 Test environment and instrument and equipment

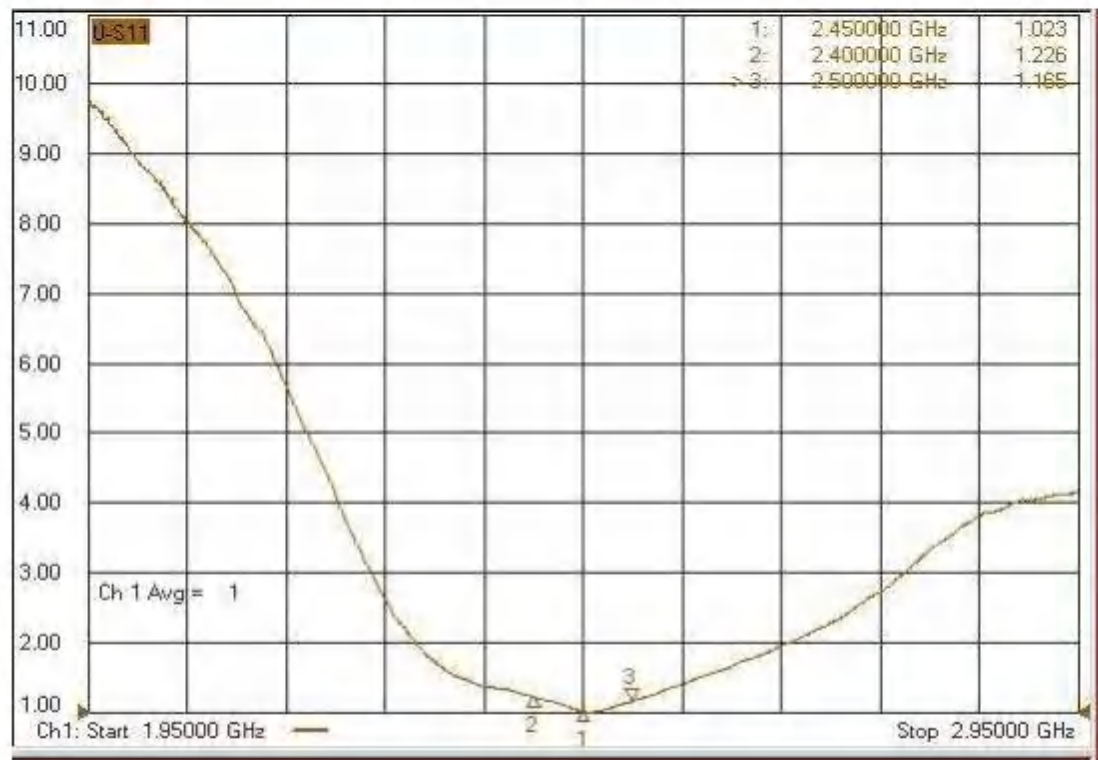
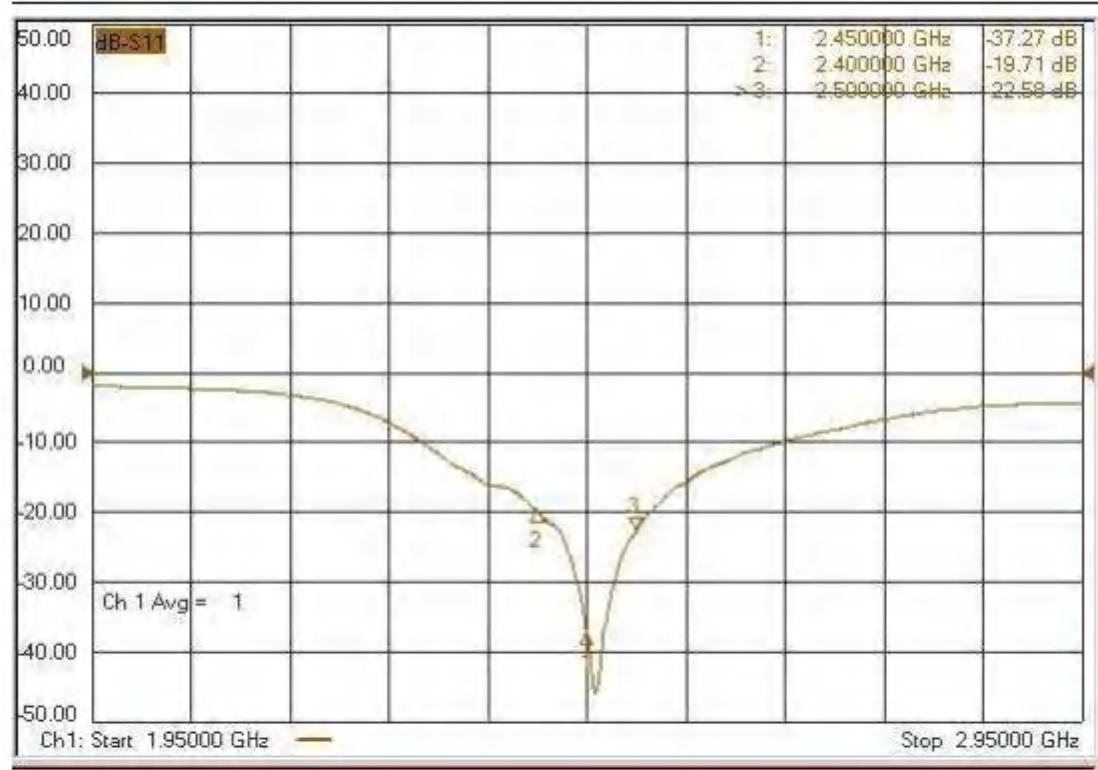
testing environment : temperature :10℃——+30℃ Relative humidity : 80% (+ 40℃) Atmospheric pressure : 750 mm-kg ± 30 mm-kg	testing facility : HP8753D Network Analyzer ETS microwave dark chamber
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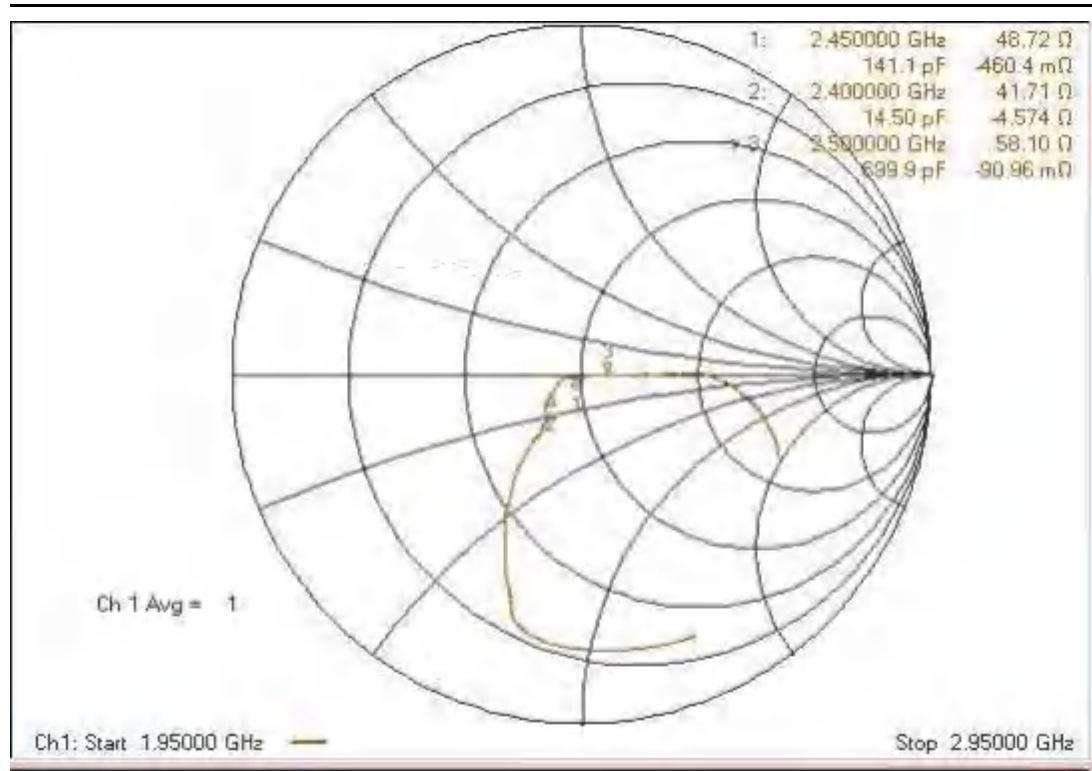
4.2.1 Electrical performance test data of the product:

The S11 diagram of the product :

(Single-antenna test is not in the whole machine)

Marker	2400 MHz	2450 MHz	2500 MHz
Returnloss	-19.7	-37.2	-22.6
VSWR	1.2	1.0	1.1





4.2.2 Gain, efficiency, and radiation direction diagram

Frequency(MHz)	Gain(dBi)	Efficiency (%)
2400.0	0.45	59.7%
2410.0	0.56	57.4%
2420.0	0.34	56.0%
2430.0	0.62	66.2%
2440.0	0.57	66.3%
2450.0	0.84	74.0%
2460.0	0.95	71.1%
2470.0	1.00	68.7%
2480.0	0.51	67.1%
2490.0	0.72	62.2%
2500.0	0.87	59.1%

4.2.3 Radiative direction diagram: frequency: 2450 MHz

