

Sample acceptance letter of Shenzhen Valet Electronics Co., Ltd.

Manufacturer's address : Plant 101-3, No. 4, Xiangyuer Industrial Park, No . 8, Longsheng Road, Longgang Community, Longgang Street, Longgang District, Shenzhen

SAMPLE APPROVAL SHEET

Part information:

Part name (Material Description)	H200 A2 FPC antenna
Customer's Part number	
Parts Specifications (specifications)	FPC antenna (PI electrolytic copper, black surface, 10.4*8.4mm)
Valet material (Supplier's Part number)	H200 A2
Date of sample delivery (date)	2025-6-5

Signed by Valet:

Draw up Prepared By	Examine and verify Checked By	Approve Approved By
Zhangdengqiao	Li yuepeng	Zhang hongying

Customer sign-off:

Acknowledge Accepted By	Examine and verify Checked By	Approve Approved By
Acknowledge the result: ☐ Full Approval ☐ -Conditional Approval (conditional approval) ☐ Unqualified. ☐ Others:		

Our company ensures that this sample acceptance is true. If it is confirmed and signed by your R&D department, please send it back to our company as soon as possible. If there are other reasons, please inform me in writing.

This sample approval sheet is guaranteed to be true. If it is confirmed by your R&D department, please send it back to us as soon as possible. If there are other reasons, please inform us in writing.

1 specifications

This report mainly provides the test status of various electrical and structural performance parameters of antenna H200 A2 FPC.

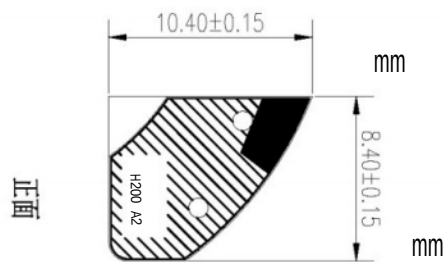


figure 1

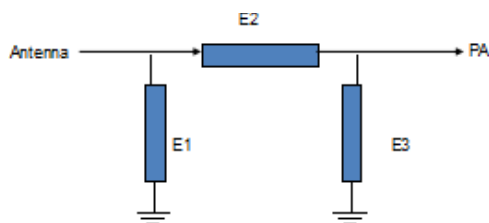
1.1 Electrical specification standard

1.1.1 Electrical performance index

The working frequency band of the antenna is 2400-2480MHz._____. The following table is the electrical performance index of antenna designed by our company.

aerial	H65 FPC antenna
frequency band	2400-2480MHz
standing-wave ratio	< 2
efficiency	14-15%
impedance	50 ohm
Polarization mode	Linear polarization

1.1.2 Matching circuit diagram



Element	Value
E1(0402)	N/A
E2(0402)	0R
E3(0402)	N/A

2 test

The antenna is debugged and tested with the prototype provided by the customer.

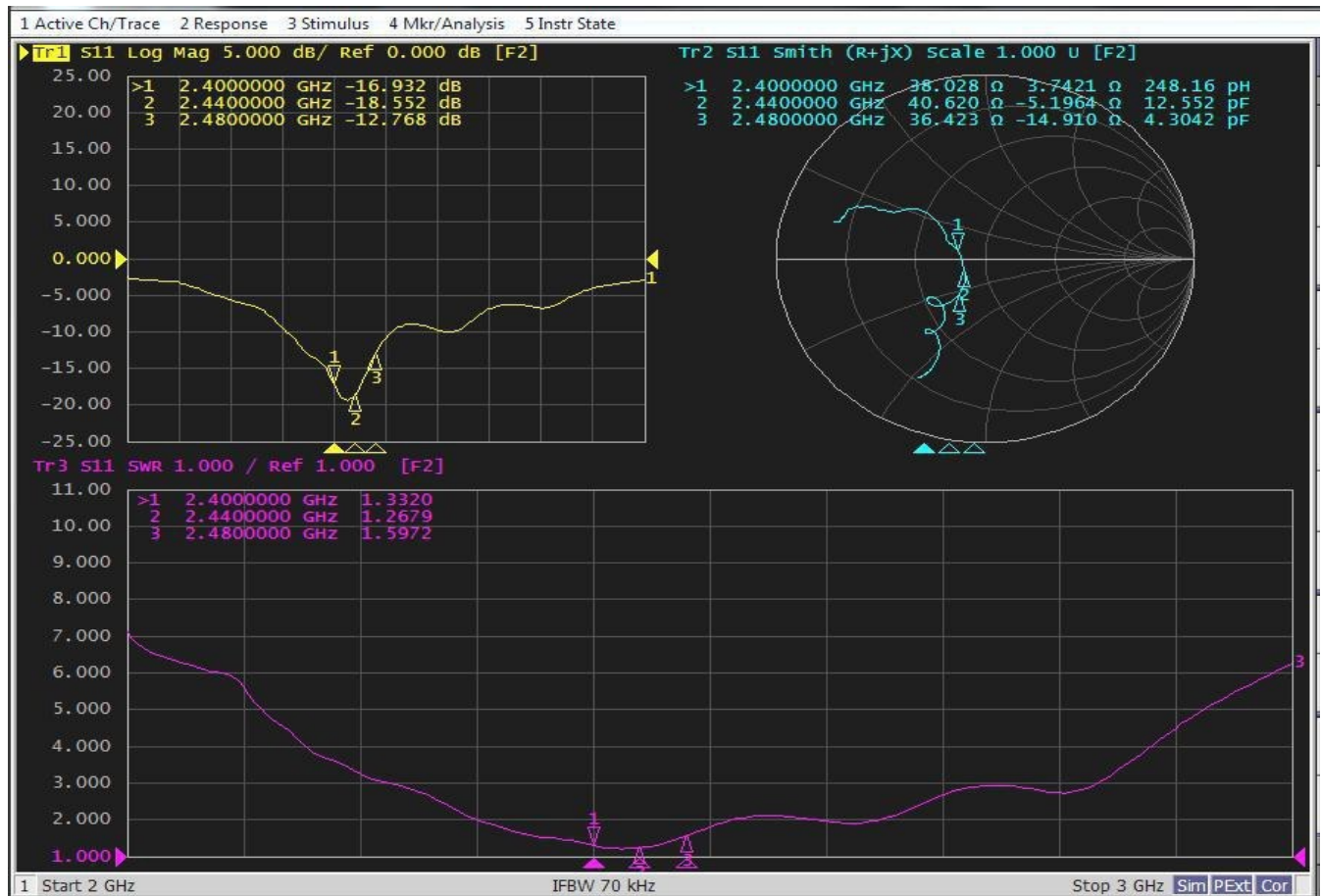
2.1 Test of Passive S11

2.1.1 test connection

2.1.2 Passive S11

The following table shows the standing wave ratio values of the edge frequency points of the antenna working frequency band. The waveforms of Return Loss, VSWR obtained from the test are shown in the following figure.

Frequency (MHz)	2400	2440	2480
VSWR	1.33	1.27	1.60
Return Loss	-16.93	-18.55	-12.77



2.2 Test of gain and efficiency

2.2.1 Test site

Valet microwave anechoic chamber: the test frequency range is 400 MHz-6 GHz.

2.2.2 Tested instrument

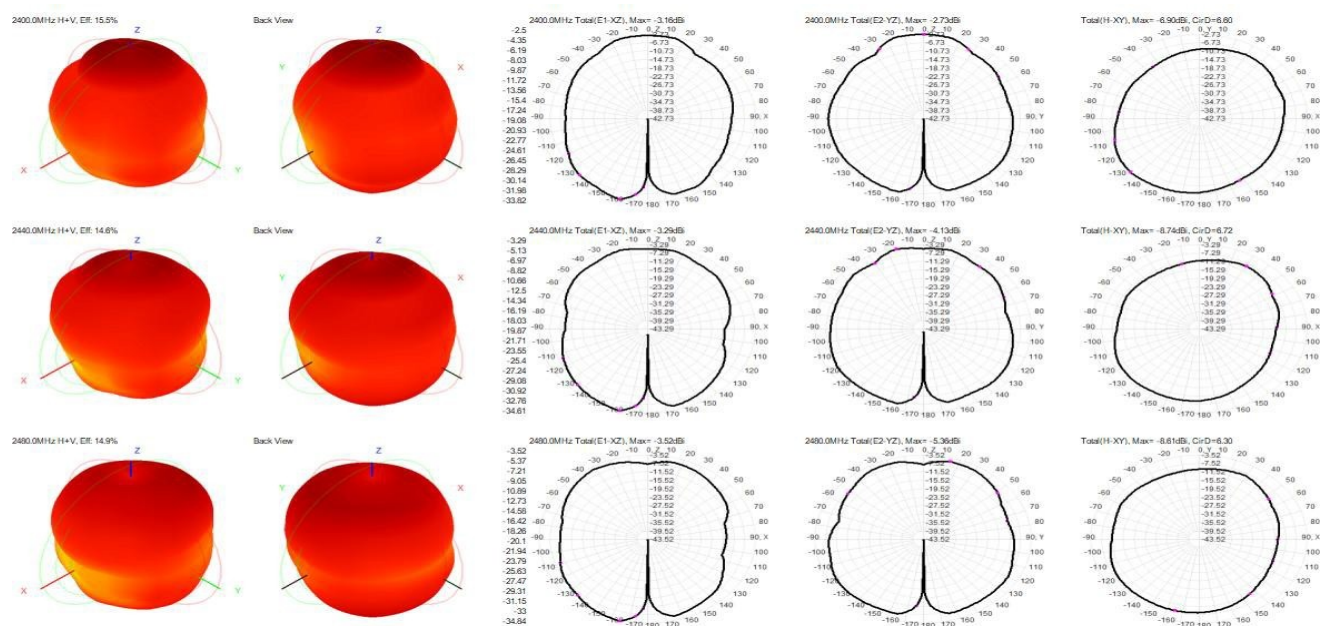
Network analyzer, standard horn antenna, multi-probe near-field antenna test system, test computer, etc.

2.2.3 test result

In the microwave anechoic chamber, the measured values related to efficiency and gain are shown in the following table.

Frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	-2.50	15.48
2410	-2.91	15.14
2420	-3.14	14.73
2430	-3.21	14.61
2440	-3.29	14.56
2450	-3.21	14.73
2460	-3.24	14.81
2470	-3.47	14.89
2480	-3.52	14.92
2490	-3.54	15.04
two thousand and five hundred	-3.53	15.31

2.2.4 Passive radiation pattern



3. Conclusion

This antenna is designed on the basis of the prototype provided by the customer. The above electrical performance parameters are tested under the environmental treatment conditions of the prototype. The electrical parameters and structural performance have reached the technical requirements. Please confirm!