



SPECIFICATION FOR APPROVAL

Customer Name: Closeli

Customer P/N:

Product code:

Production Name: 2.4G Antenna (FPC)

Production Number: ACE000822

	Supplier Signature	Customer Signature
Engineer:	Liu Yu	
Checked by:	Huang Yuming	
Approved by:	Liu Heming	
Date:	2026-6-2	

Note: This version is the public edition and can be customized according to customer requirements.

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Description Record



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1. Antenna technical parameters

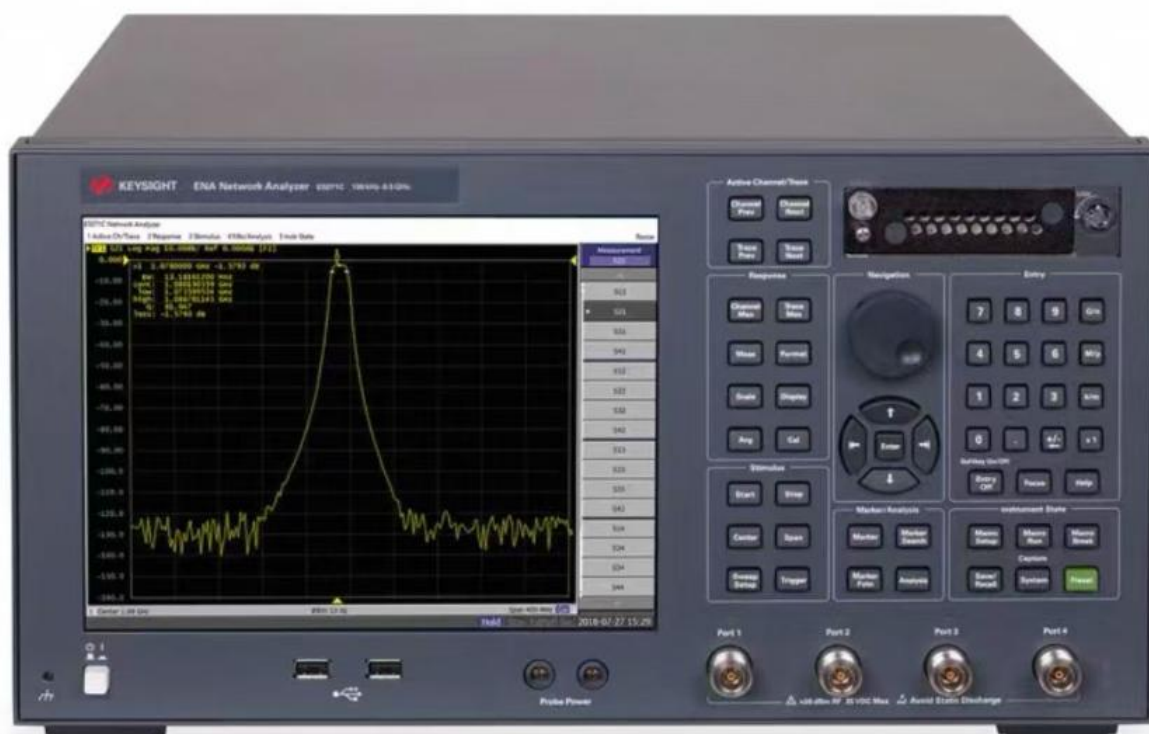
Design Specifications	
Antenna form	FPC antenna
Working Freq (MHz)	2400-2500
Gain (dBi)	≤ 5
antenna effeciency(%)	≤ 70
VSWR	≤ 2
Polarization	Linear polarization
Radiation pattern	omnidirectional
Impedance (Ω)	50
Interface	First generation terminal
Antenna size(mm)	34*10*0.12
Weight (g)	< 20
Operating Temp ($^{\circ}\text{C}$)	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Storing Temp ($^{\circ}\text{C}$)	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



2. Physical picture(Picture for reference only)



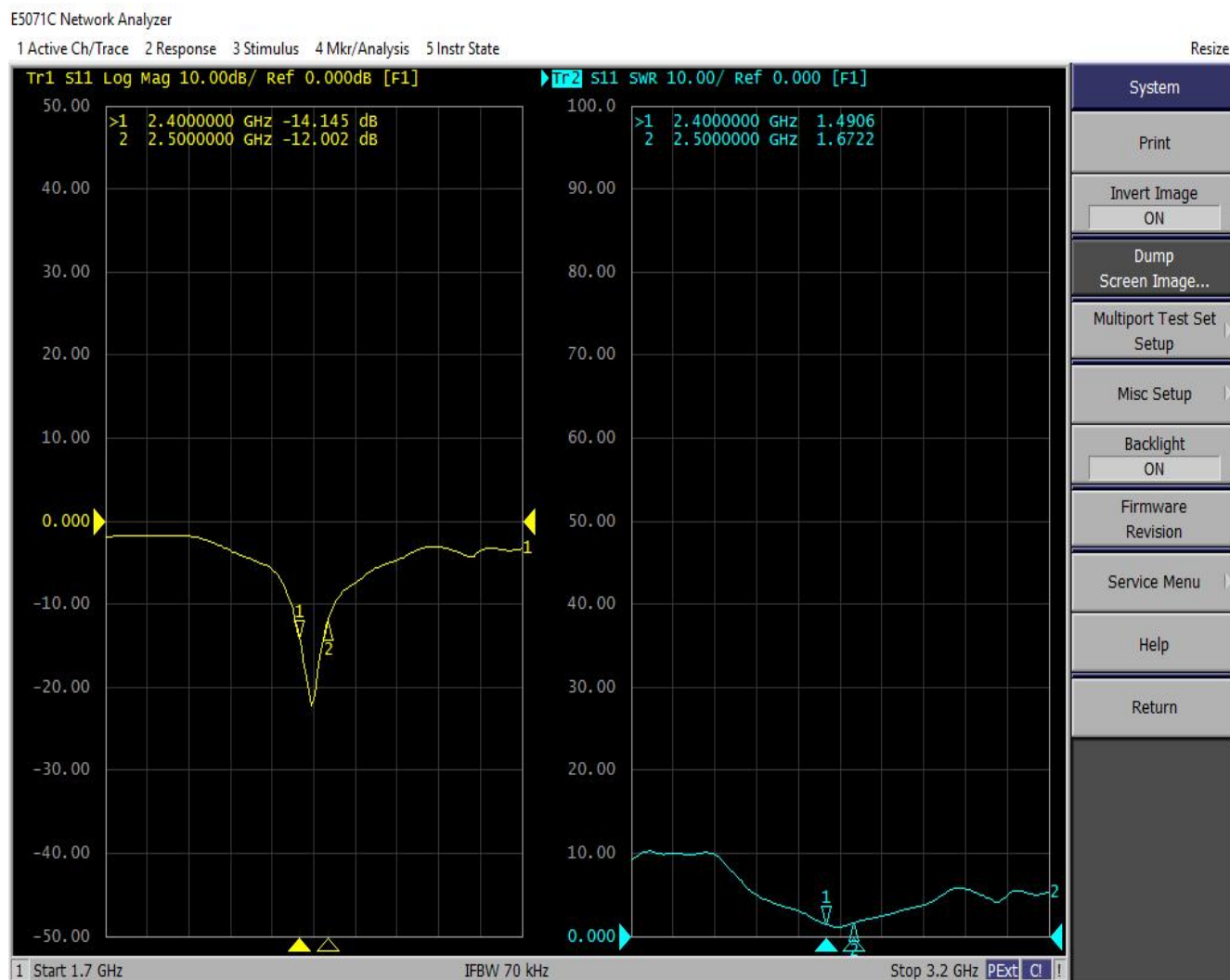
3. Network analyzer (Test Setup Diagram)





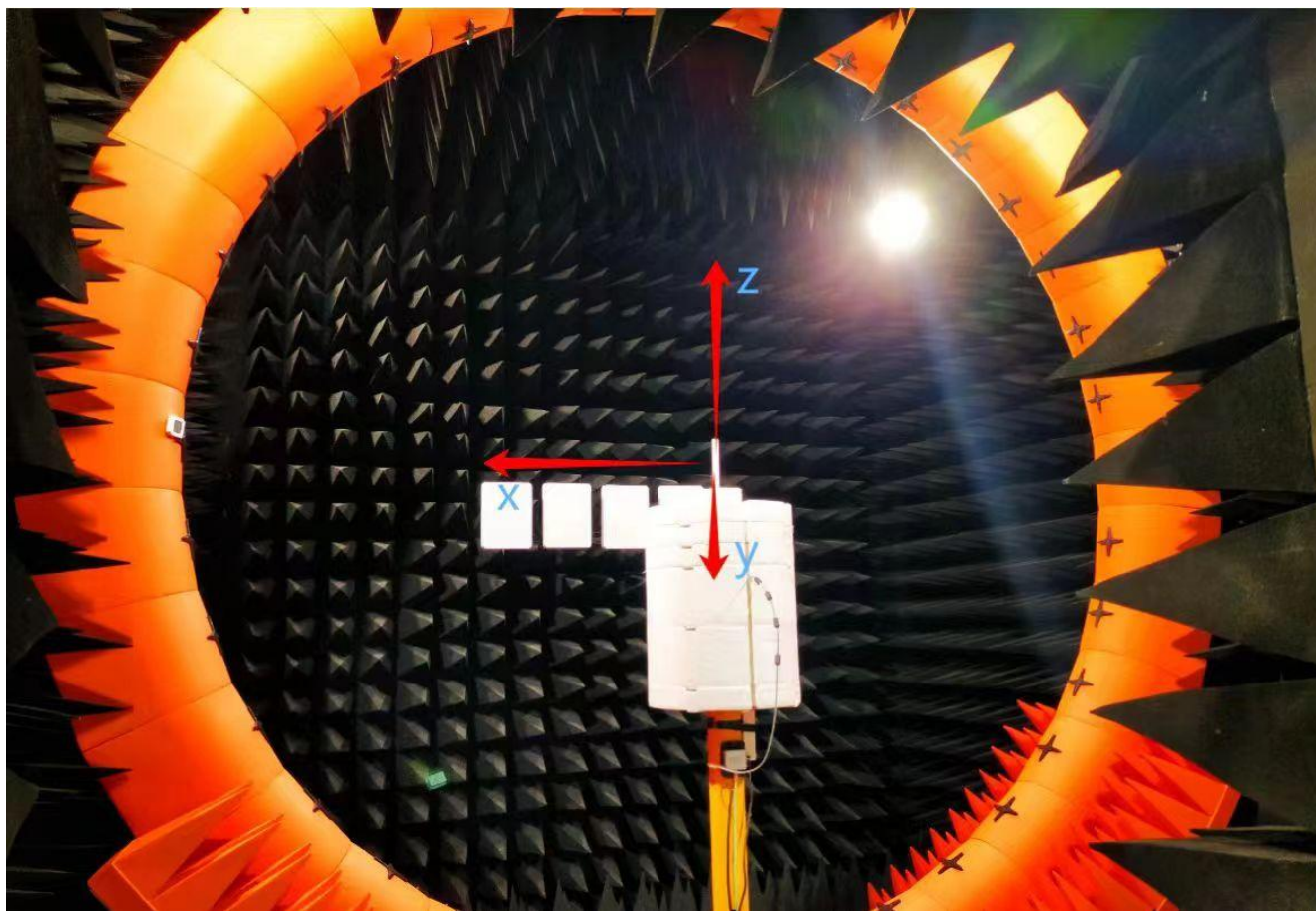
4. Antenna performance testing

4.1 Antenna return loss diagram and standing wave ratio diagram



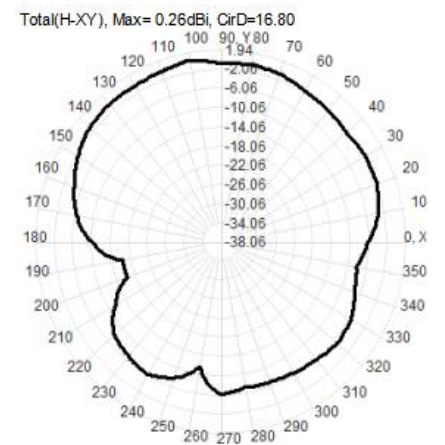
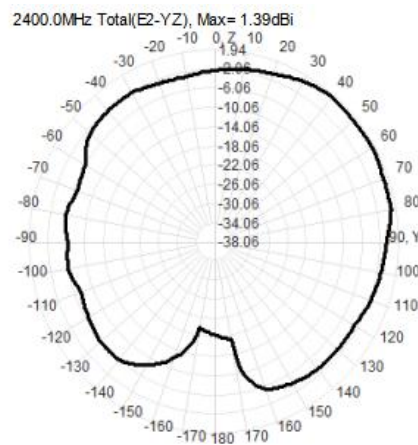
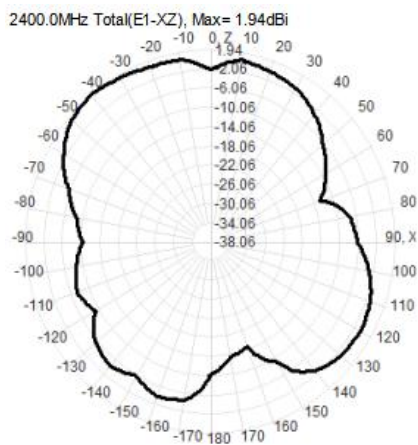
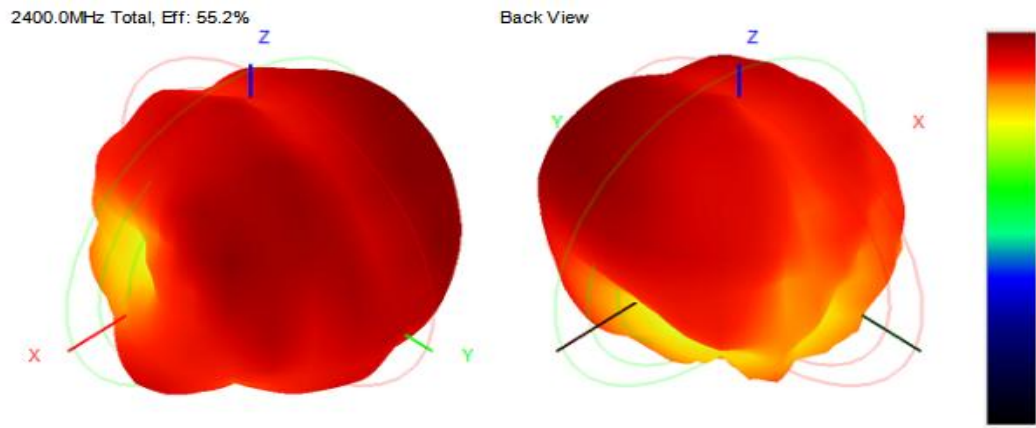


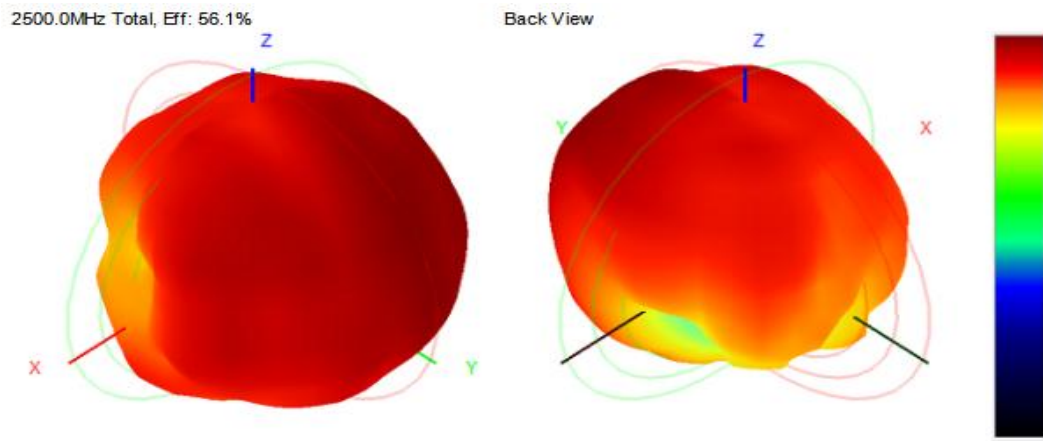
5. Actual test image



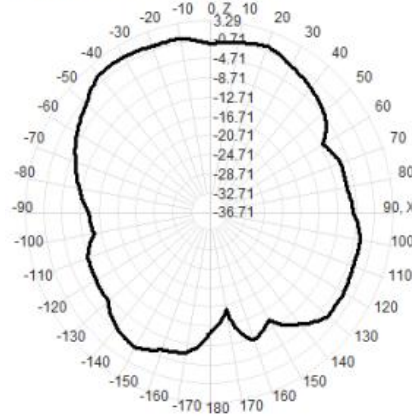


6. Radiation pattern

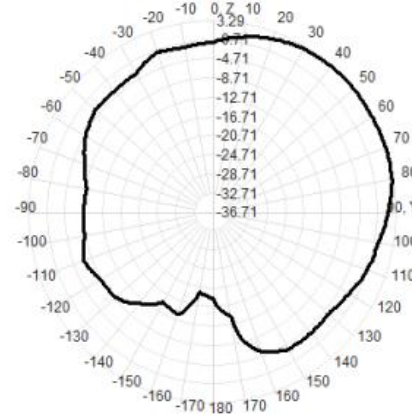




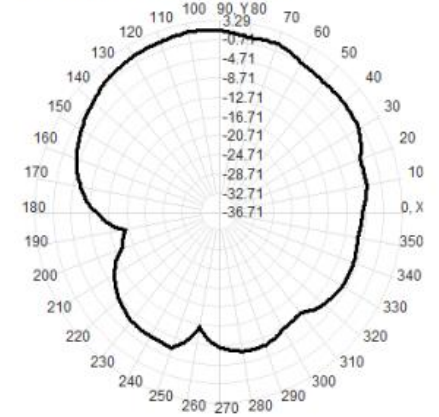
2500.0MHz Total(E1-XZ), Max= 0.67dBi



2500.0MHz Total(E2-YZ), Max= 3.29dBi



Total(H-XY), Max= 1.42dBi, CirD=17.60





7. Efficiency curve diagram and gain curve diagram



8. List of Test Data

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	2.72	55.17
2	2410.0	2.99	56.40
3	2420.0	3.16	56.60
4	2430.0	3.17	56.98
5	2440.0	3.06	57.43
6	2450.0	3.05	56.62
7	2460.0	3.10	55.91
8	2470.0	3.22	55.87
9	2480.0	3.24	55.81
10	2490.0	3.29	55.79
11	2500.0	3.29	56.11



Gen.1 Connector, RF1.13, Black

100±3

10±0.2

34±0.2

Tear notch

Sinlen-2. 4G-F3410-A0