APPROVAL SHEET

CUSTOMER NAME	HuayiVideo
CUSTOMER P/N	
PART NAME	2.4G FPC BUILT-IN ANTENNA
P/ N	YJC-6N035-B51
APPROVAL REV.	A0
DELIVERY DATE	Nov 21, 2024
PREPARED BY	Yin Feijie
CHECKED BY	Fang Wenfeng
APPROVED BY	Xiao Han

Customer Approved		
Approved By	Checked By	Prepared By

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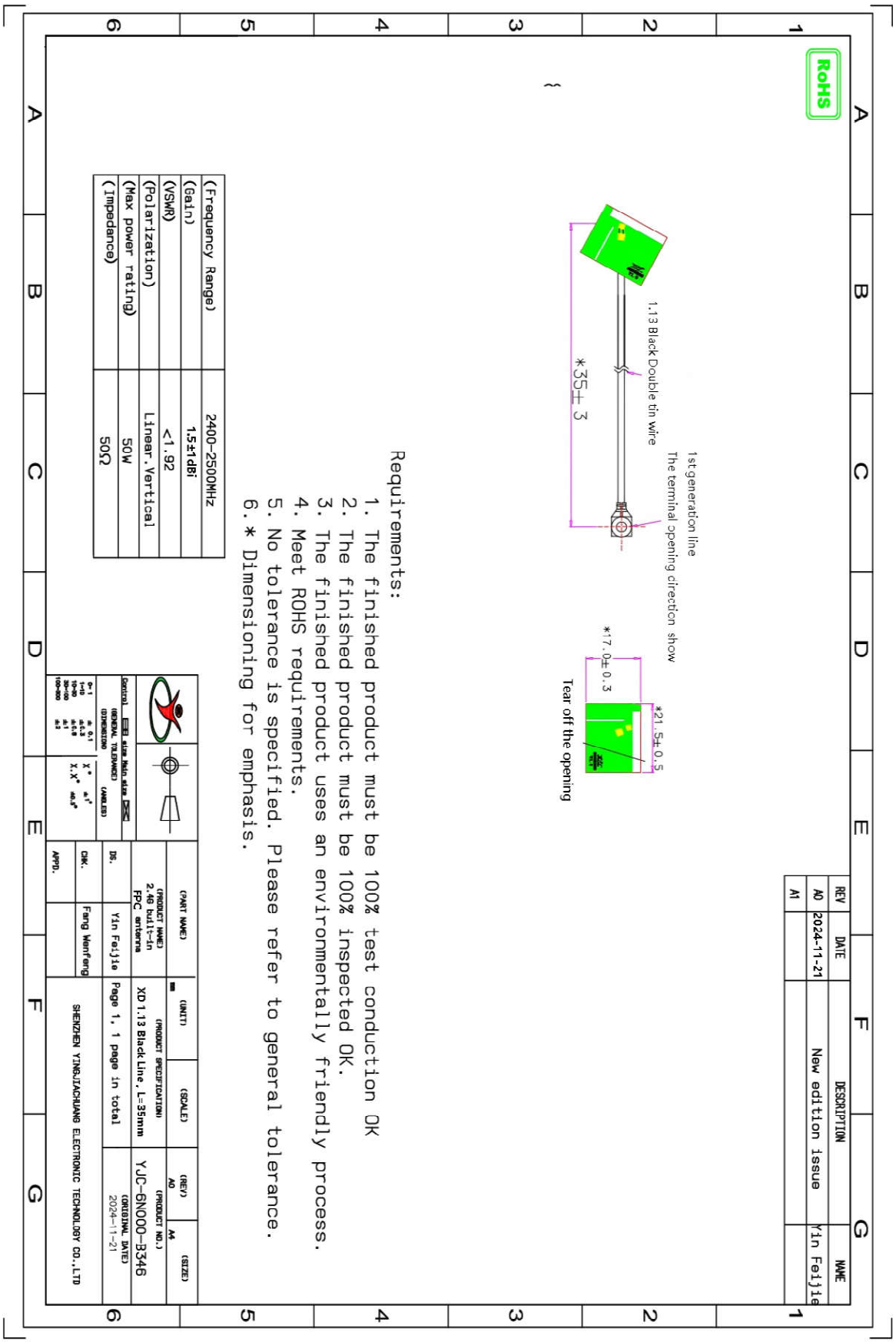
Catalog

resume:

Version	Change contents and reasons	Date	Issue
A0	NEW	Nov 21, 2024	

Product floor plan:



Antenna technical parameters and environmental testing:

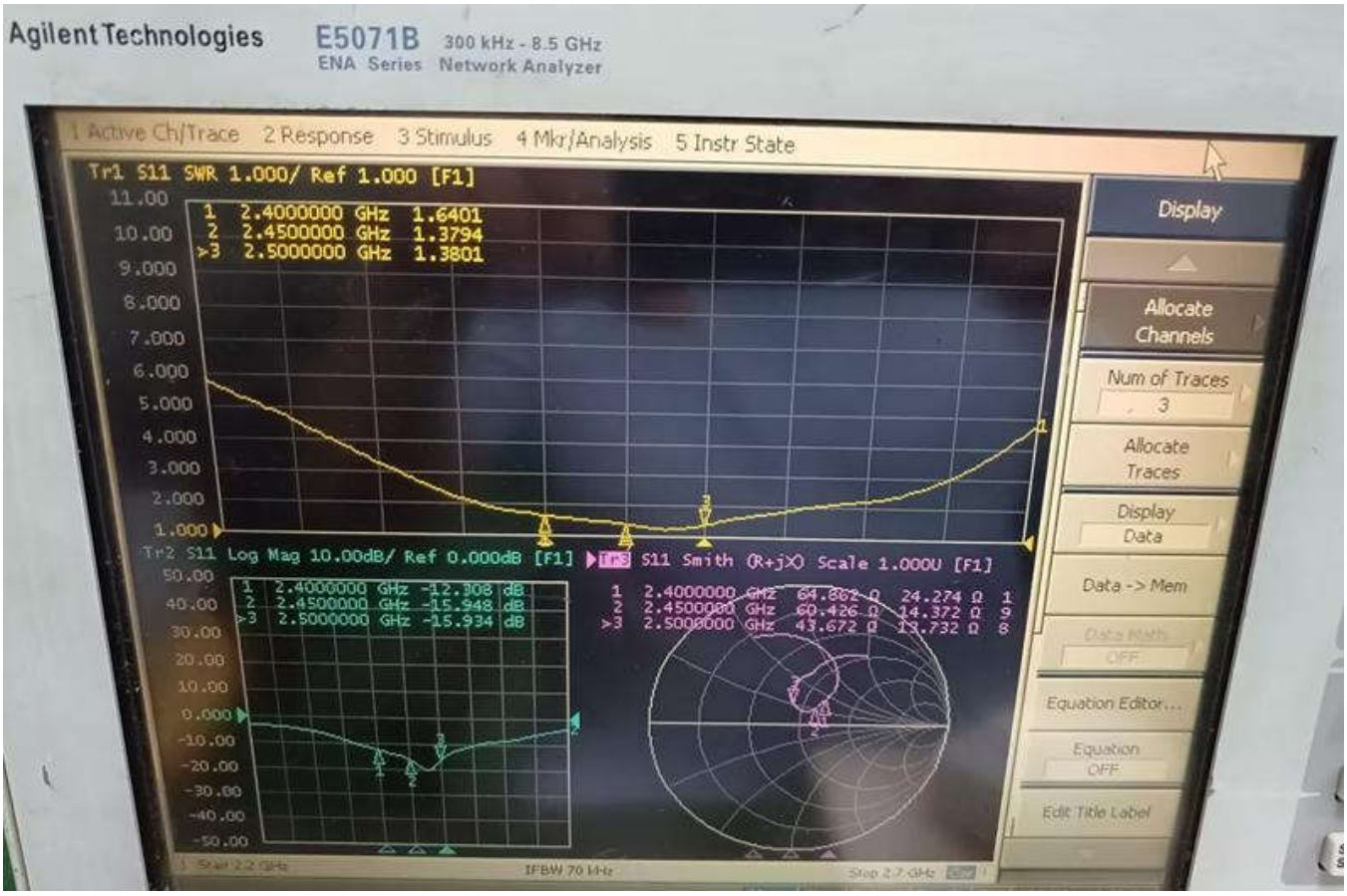
Electrical parameters of electrical apparatus			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Wire material	
VSWR	＜ 1.92 （ Test in the casing）	Input connector	XD
Input Impedance	50 Ω	Working Temperature	-20℃~+70℃
Direction	All	Working Humidity	20~80%
Gain	1.5±1dBi	Mechanical Specifications	

Environmental performance test::

project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 ℃ ~ + 70 ℃ 2. Relative humidity of 45% to 85% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low temperature test	Between 70 ℃ and -20 ℃ for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 ℃. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal

Antenna drawing

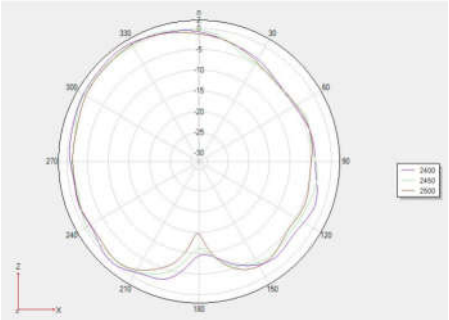
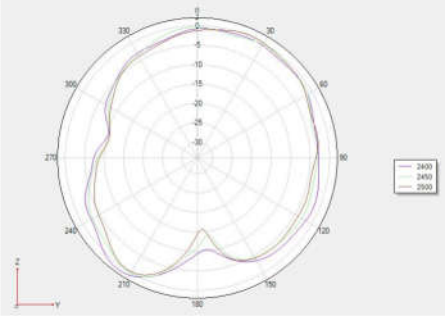
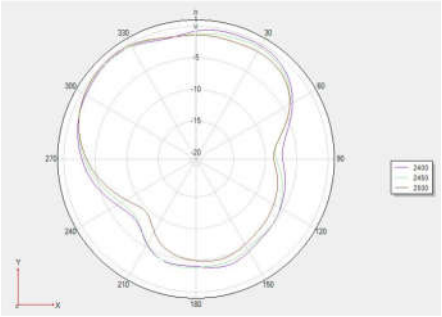
Antenna performance test chart:



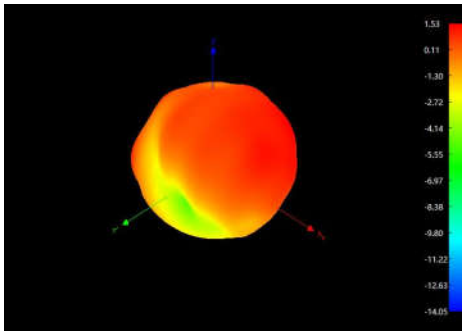
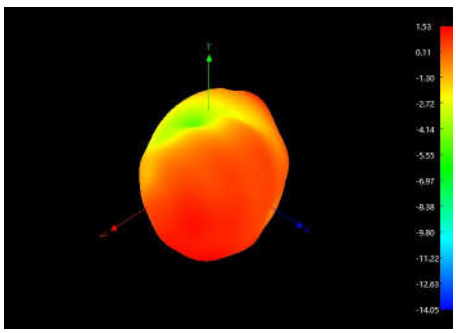
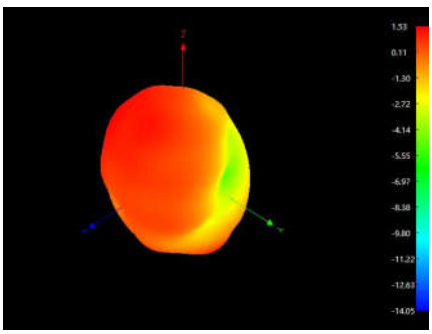
2D.3D test data（2.4G）

Frequency(MHz)	Efficiency (%)	Gain.(dBi)
2400MHz	41.27	1.53
2410MHz	41.69	1.41
2420MHz	43.05	1.55
2430MHz	42.28	1.69
2440MHz	43.45	1.67
2450MHz	43.25	1.61
2460MHz	45.29	1.75
2470MHz	43.35	1.82
2480MHz	43.75	1.75
2490MHz	42.95	1.78
2500MHz	45.81	1.63

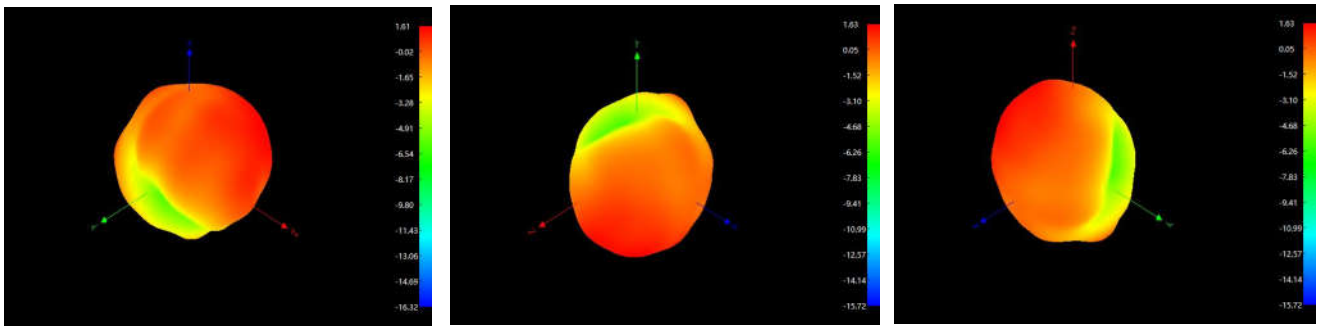
Phi 0 2D 图　　Phi 90 2D　　Theta 90 2D

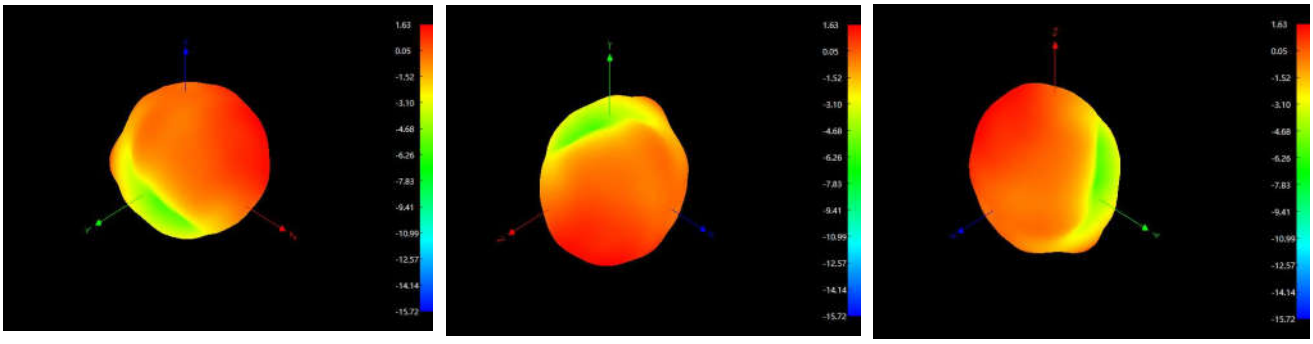
3D 2400

3D 2450



3D 2500



Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr $^{6+}$	PBB	PBDE	PASS
Cable	Teflon coaxial Cable	CANEC24002746206	SGS	24/02/23	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Tin	SHAEC24006459102	SGS	24/04/10	ND	78	ND	ND	ND	ND	PASS
IPEX Terminals	Phosphor bronze	CANEC24000977302	SGS	24/01/22	ND	6	ND	ND	ND	ND	PASS
	Gild	A2240410234101001E	CTI	24/07/16	ND	ND	ND	ND	ND	ND	PASS
	Gel core	A2240126395101003E	CTI	24/03/16	ND	ND	ND	ND	ND	ND	PASS
FPC	Printing ink	ETR24902229M01	SGS	24/09/23	ND	ND	ND	ND	ND	ND	PASS
	3M9471LE	SHAEC23021627701	SGS	23/12/27	ND	ND	ND	ND	ND	ND	PASS
	Copper foil	A2240082746101006E	CTI	24/03/01	ND	ND	ND	ND	ND	ND	PASS