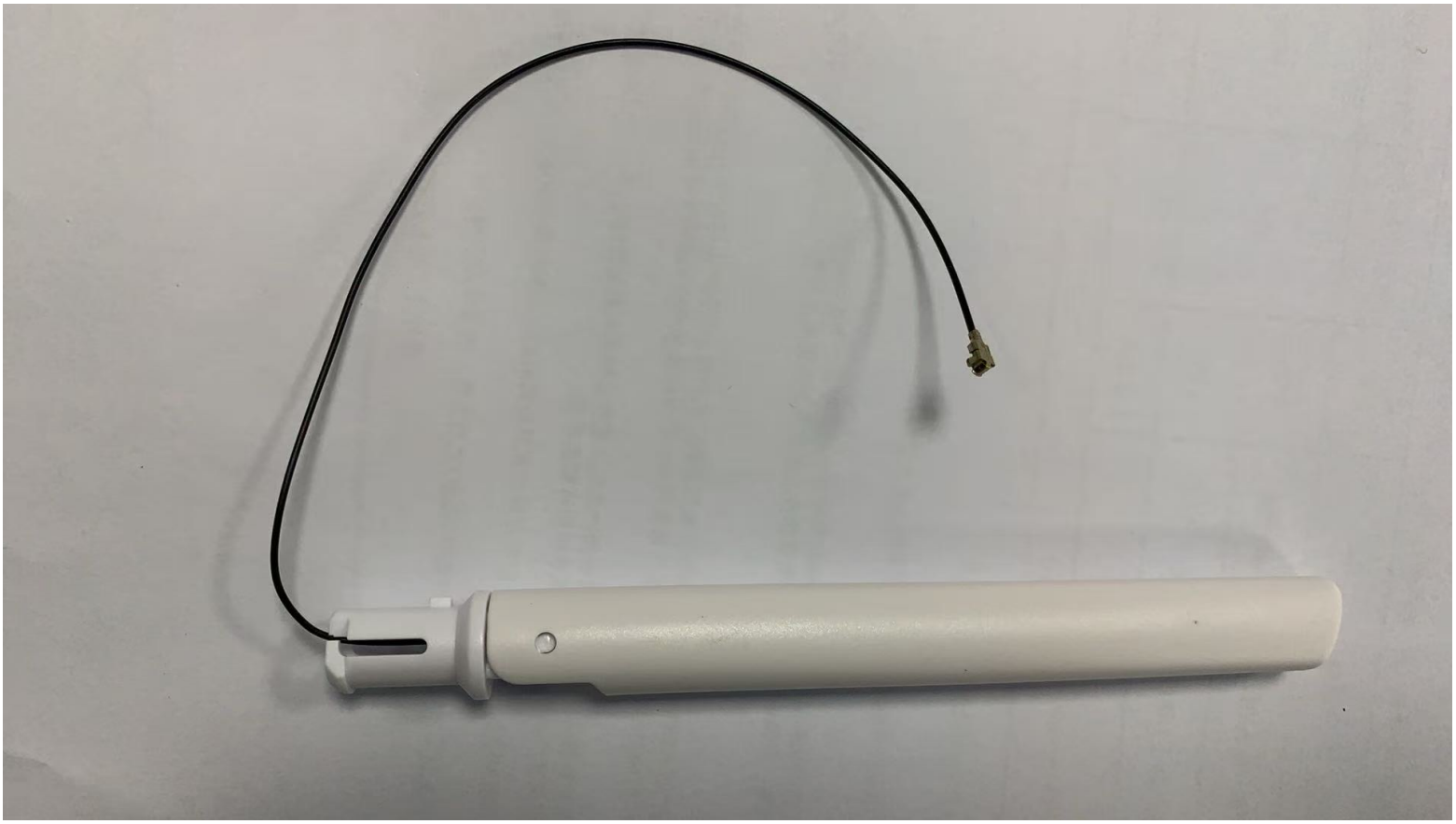
	document number:

Specification For App roval

Customer:			
Customer:			
Customer part number:		Supplier part number:	
product description:	3DB-White fat blade 2.4G antenna 1.13L=250mm+ first generation terminal	Applicable model:	
Supplier acknowledges (seal):		Customer Acknowledges (stamp):	
Production: Zhou Jingfeng	Structure: Zhou Jingfeng		
examine and verify:	Date: 2025.05.16		

catalogue

1. Product pictures



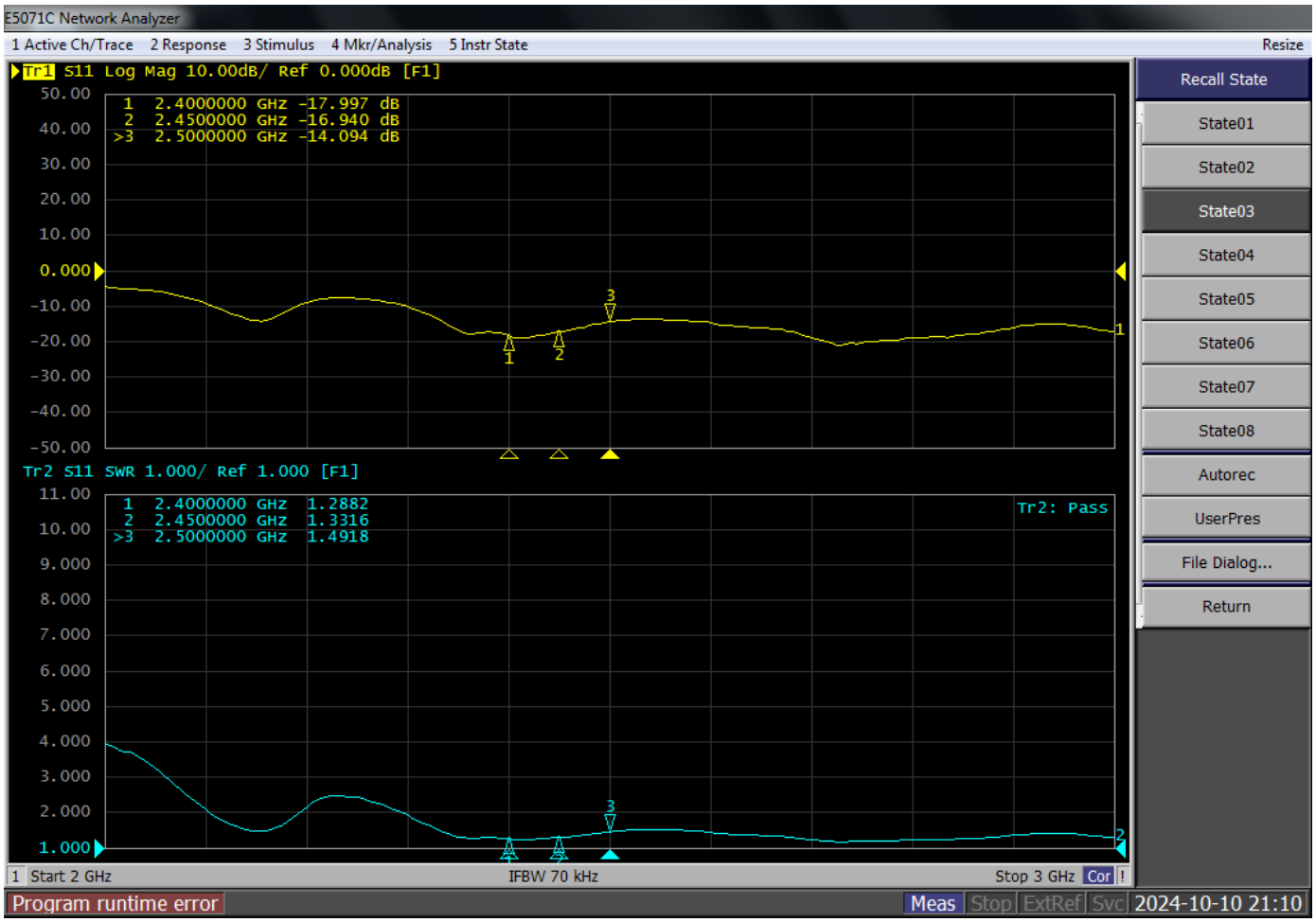
Ii. Product parameters

Product test parameters			
(Name)	External antenna	Model Type	3 DB-White fat blade 2.4G antenna 1.13L= 250 mm+ generation terminal
Electrical Specifications			
Frenquency Range	2400-2500MHZ	Polarization	perpendicular
Impedance	50Ω	radiation direction	omnidirectional
Standing wave ratio (VSWR)	≤2	Power capacity	50W
Gain	3.49dBi	Bandwidth	100MHz

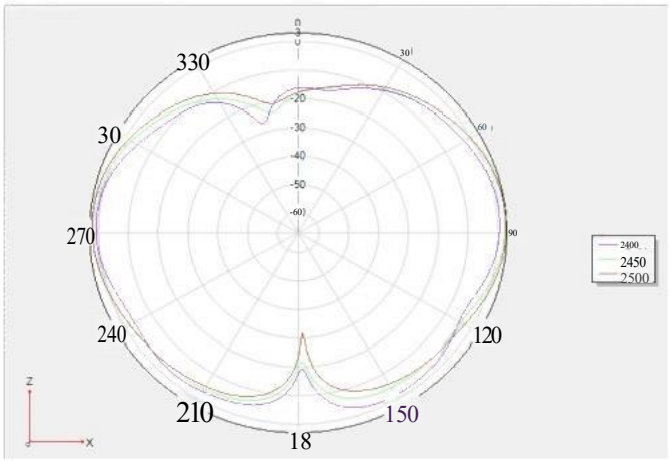
Mechanical Specifications			
Dimensions	126.9MM±2MM	Chassis Color	white
Connector	A generation of terminals	Cable Length	250MM±3mm
Chassis Material	PC		
Working Temperature	- 40℃± 85℃	Limit Temperature	-40℃±85℃

3. S11 (VSWR, Return loss, Smi th) data

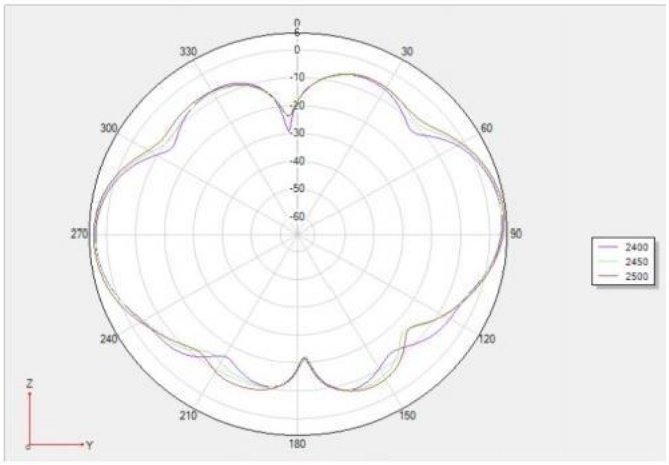
3.1 Network analyzer report



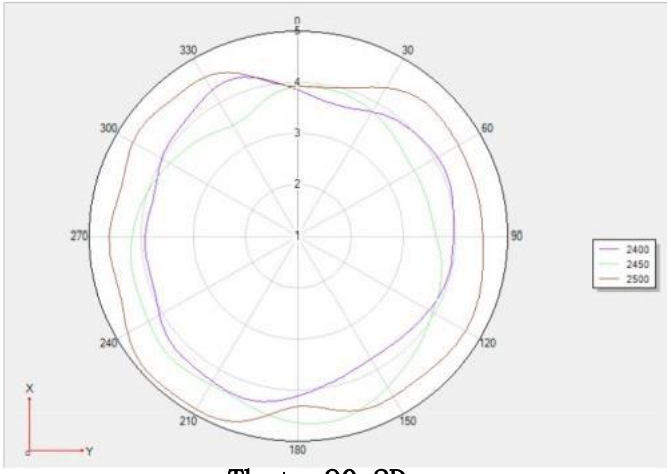
3.22D Directional diagram



Phi 0 2D

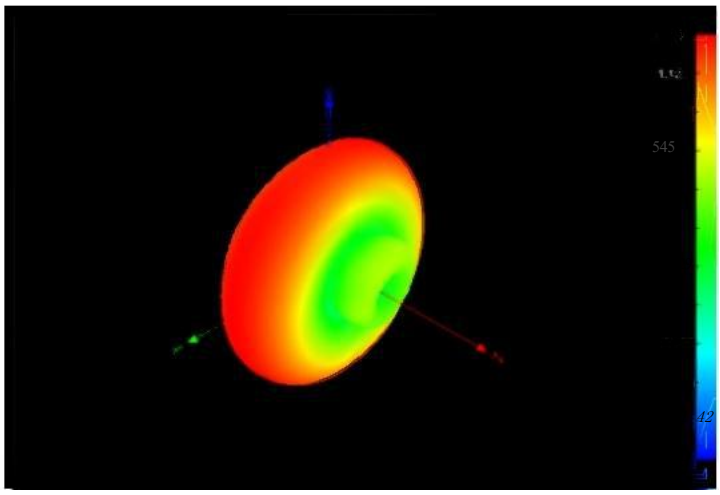


Phi 90 2D

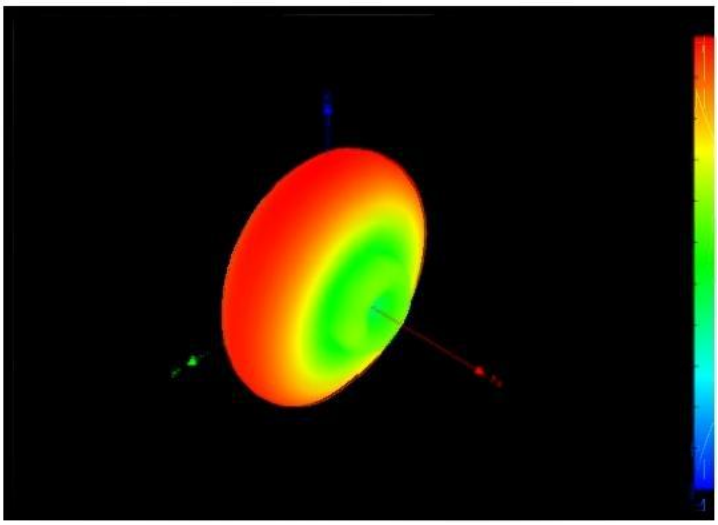


Theta 90 2D

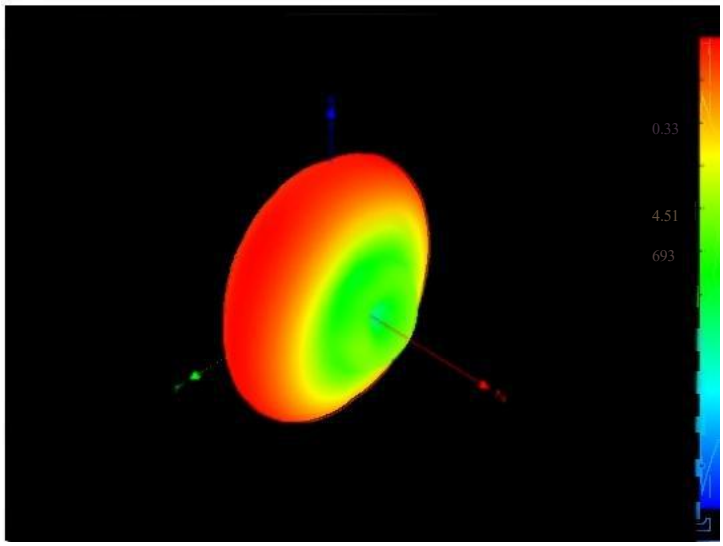
3.33D direction diagram



2400MHZ



2450MHZ

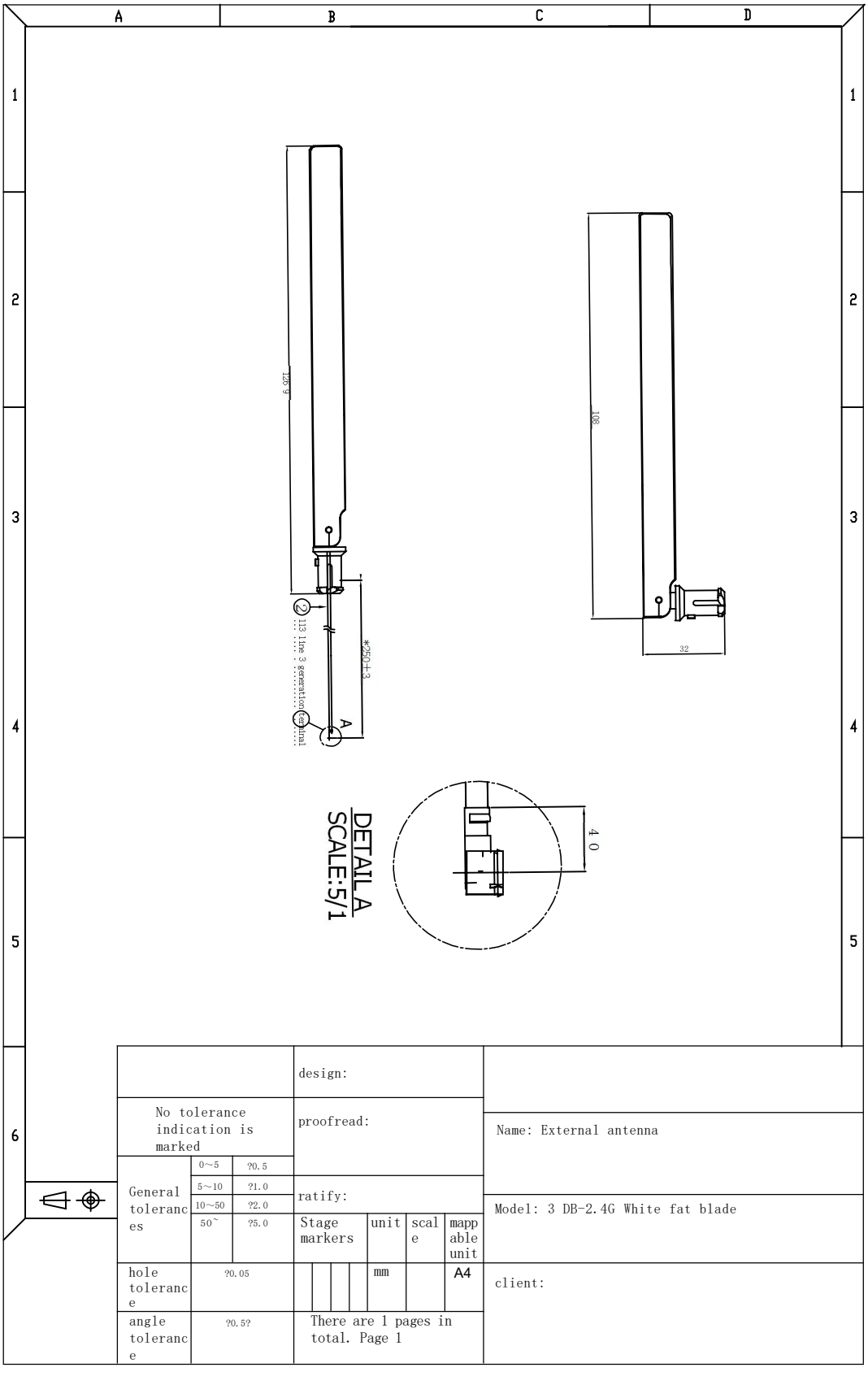


2500MHZ

4. Antenna efficiency and gain value

Frequenc	Efficiency	Efficiency / %	Frequenc	MaxGain/	AvgGain/dBi
2400	-3.09	49.09	2400	1.49	-3.09
2450	-2.16	60.81	2450	2.45	-2.16
2500	-1.43	71.94	2500	3.49	-1.43

5. Product size drawings



			design:				
No tolerance indication is marked			proofread:				Name: External antenna
General tolerances	0～5	?0.5	ratify:				Model: 3 DB-2.4G White fat blade
	5～10	?1.0					
	10～50	?2.0					
	50～	?5.0	Stage markers	unit	scale	mappable unit	
hole tolerance	?0.05			mm		A4	client:
angle tolerance	?0.5?		There are 1 pages in total. Page 1				

6. Environmental performance test

Storage environment	Test temperature, humidity and air pressure as follows in the absence of a specified condition: 1. The temperature is-30℃~+80℃ 2. Relative humidity is 45%-85% 3. The air pressure is 86 kpa-106 kpa	Electrical and mechanical performance is normal
thermocycling	Five cycles were performed between 70℃ and 40℃, followed by normal conditions 1-2H, check the appearance quality.	The size shall meet the requirements and should Its satisfying Mechanical and electrical properties
Resistant to constant humidity and heat trial	Relative humidity 95±3%, test temperature: 40℃. After 2H action, The electrical properties of the specimen shall be measured within 5 min after the specimen is removed, and the specimen is normal Check the appearance quality after 1-2H	The size shall meet the requirements and should be Its satisfying Mechanical and electrical properties
vibration test	Frequency range 10-55 HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0M/S, frequency sweeping cycle times: 30 times	Electrical and mechanical performance is normal
fall-down test	The 1M high altitude falls freely in the direction of mutually perpendicular axes for 3 times	Electrical and mechanical performance is normal