



ShenZhen XinErSheng Technology Co.,Ltd

SPECIFICATION FOR APPROVAL

Customer name: BeiNaiTe

Product name: 2.4GHz FPC Antenna

Customer Part
Number:

Manufacturers of
Material: SFANT12E1239

Deliver quantity: 5PCS

Mark	Check	Examine and approve	Datelanded
Biao	Lisen	Amy	2022.10.21

That Customers:

Acknowledge	Check	Examine and approve	Datelanded

Admit that situation: ☒new product ☐ product shanges

Admit that project: ☐acknowledgement ☐soecimen 10PCS

Admit that conclusion: ☐reception ☐refuse

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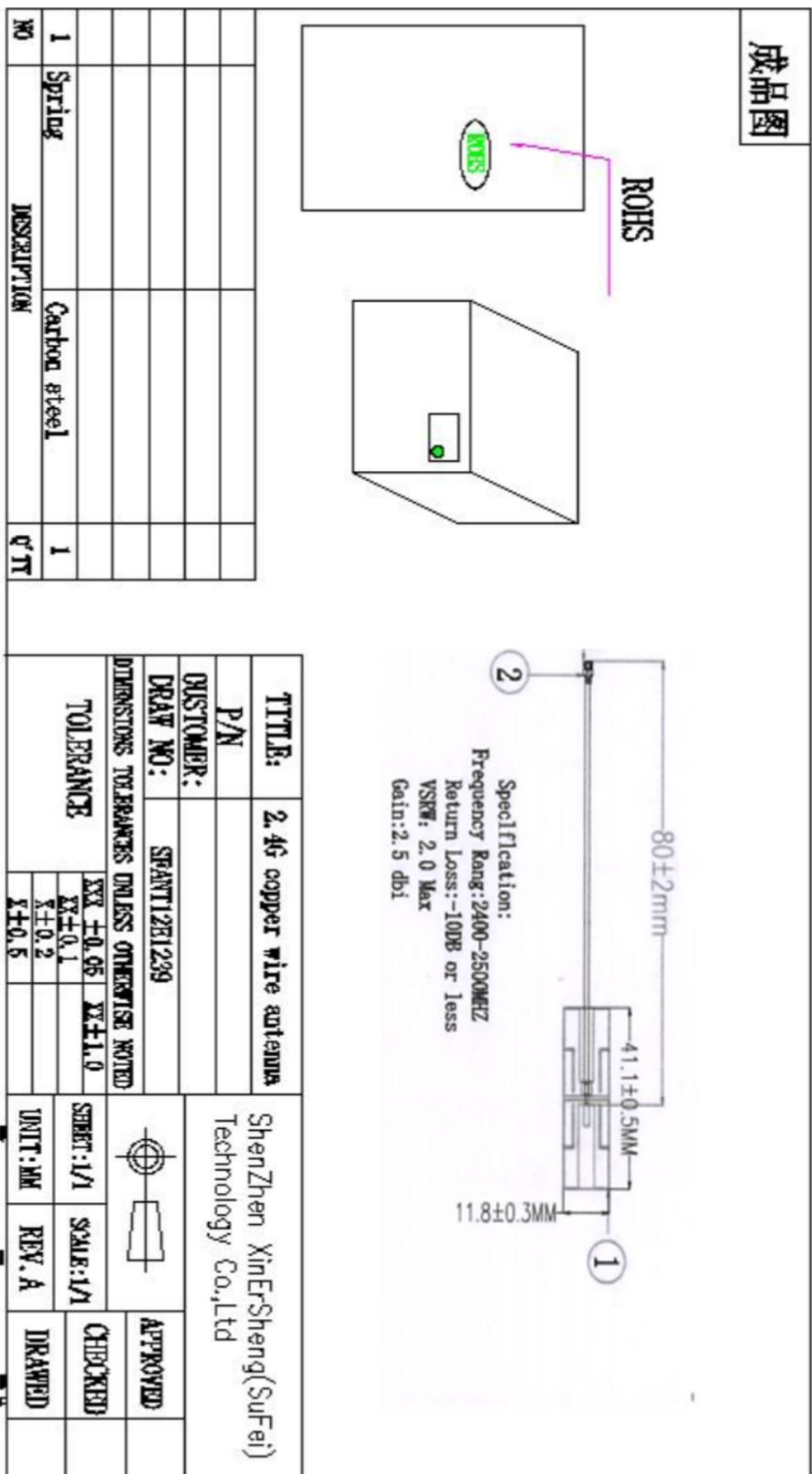
Main technical parameters of the product

Main technical specifications	
Frequency Range(MHZ)	2400-2500
Gain (dBi)	2.5±0.5dBi
Impedance(Ω)	50±10
ReTurnLoss(dB)	≤-10
VSWR	≤2
Admitted Power	1W
Polarization	Linear Vertical
Connector Type	Weld
Physical Properties	
Antenna Base	Copper
Operating Temp	-20℃-+60℃
Storage Temp	-20℃-+70℃

List of raw materials:

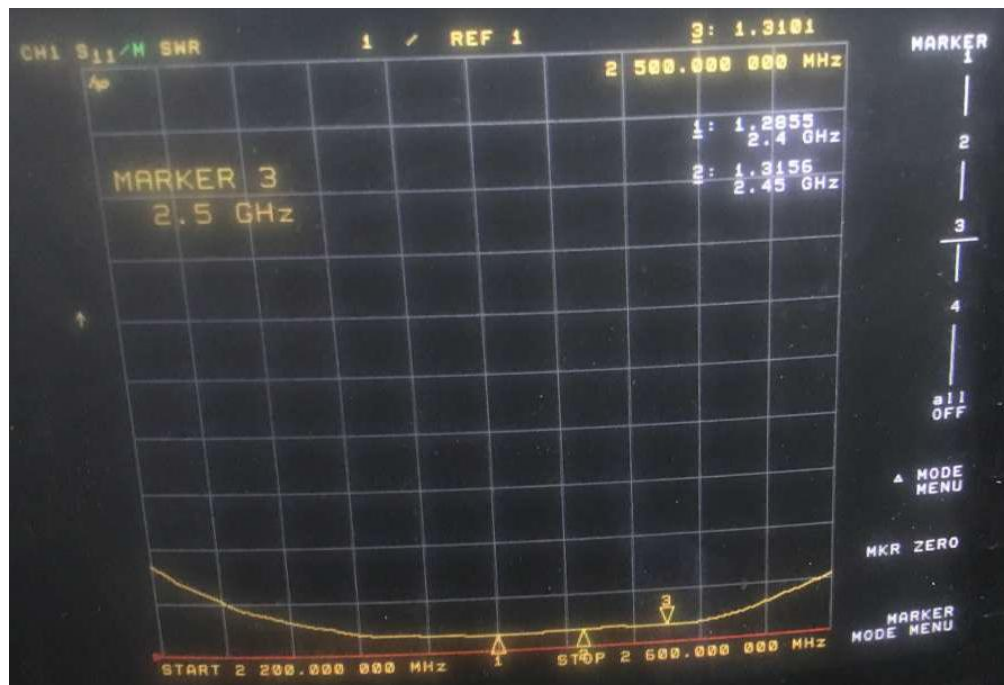
Serial number	Name	Texture	Quantity	Unit	Remark
1	FPC	9471 gunmed paper	1	PCS	
2	IPEX	Copper	1	PCS	
3	1.13 wire	1.13 Black wire	1	PCS	

Product drawing

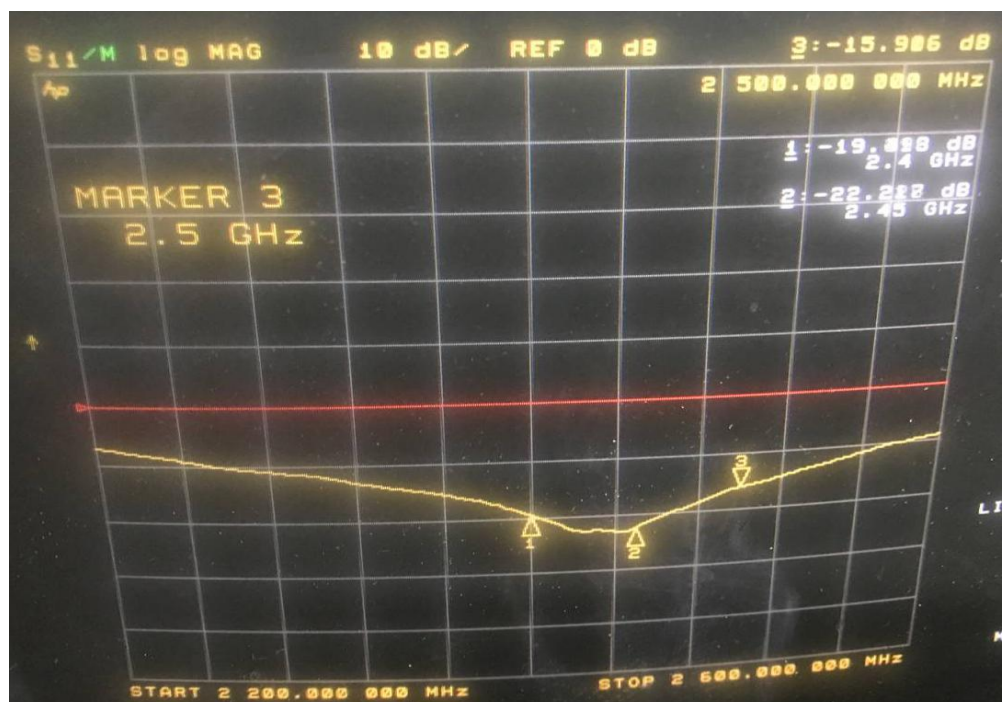


Network analyzer test report:

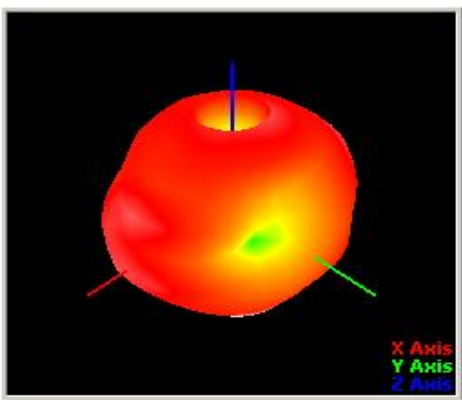
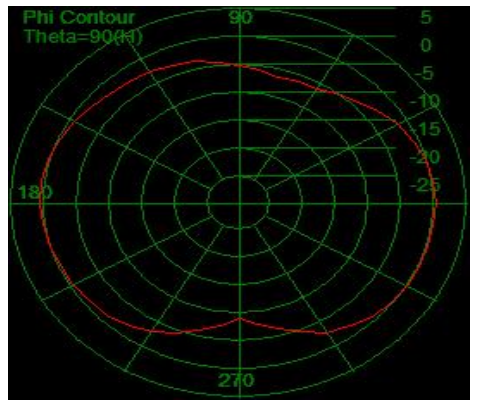
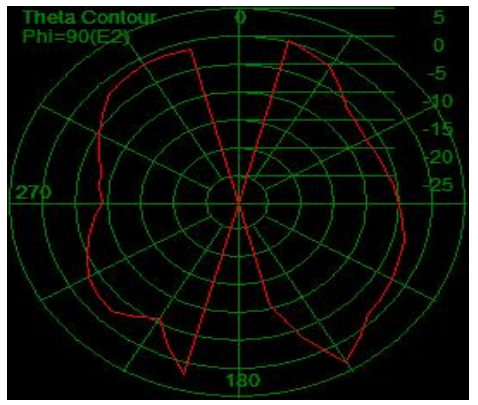
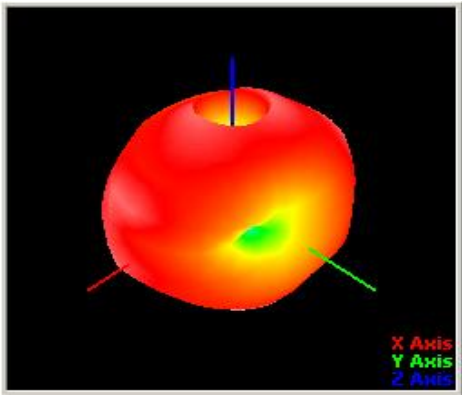
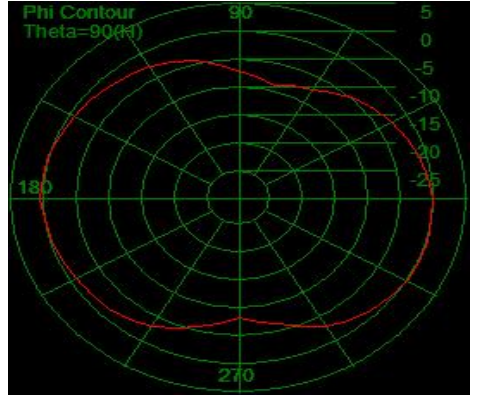
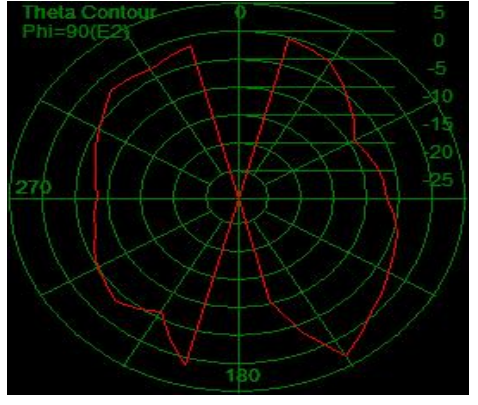
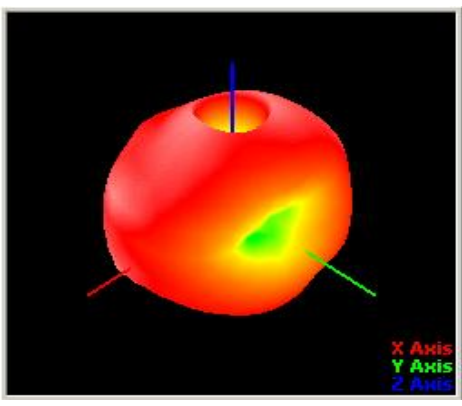
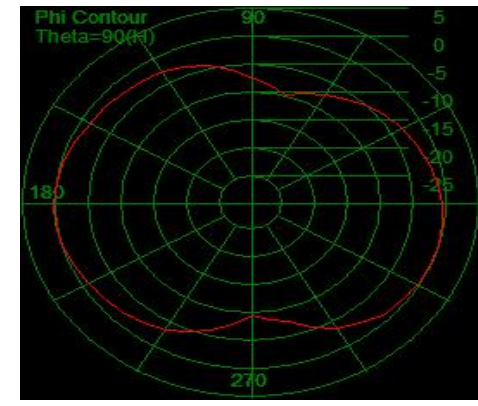
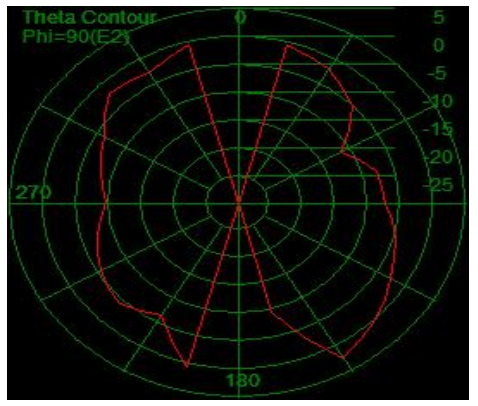
1. SWR:



2. return loss



2D、3DRaditation Pattern

 3D radiation pattern at 2.4G showing a main lobe and side lobes. X Axis, Y Axis, Z Axis are indicated.	 Phi Contour Theta=90(φ1) plot showing the radiation pattern in the Phi-Theta plane. The plot shows a main lobe and side lobes.	 Theta Contour Phi=90(E2) plot showing the radiation pattern in the Theta-Phi plane. The plot shows a main lobe and side lobes.
2.4G	Gain(Peak):2.51dBi	Efficiency:53.76 %
 3D radiation pattern at 2.45G showing a main lobe and side lobes. X Axis, Y Axis, Z Axis are indicated.	 Phi Contour Theta=90(φ1) plot showing the radiation pattern in the Phi-Theta plane. The plot shows a main lobe and side lobes.	 Theta Contour Phi=90(E2) plot showing the radiation pattern in the Theta-Phi plane. The plot shows a main lobe and side lobes.
2.45G	Gain(Peak):2.84 dBi	Efficiency:59.79 %
 3D radiation pattern at 2.5G showing a main lobe and side lobes. X Axis, Y Axis, Z Axis are indicated.	 Phi Contour Theta=90(φ1) plot showing the radiation pattern in the Phi-Theta plane. The plot shows a main lobe and side lobes.	 Theta Contour Phi=90(E2) plot showing the radiation pattern in the Theta-Phi plane. The plot shows a main lobe and side lobes.
2.5G	Gain(Peak):2.95dBi	Efficiency:64.24 %