



特高传感科技（深圳）有限公司

TeGao Sensing Technology (shenzhen) Co.,LTD

承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: 视觉

产品型号 Product Model:

客户料号 Customer P/N : E05024A58A1

特高料号 TG P/N: W. 02. 00241002

产品规格 SPECIFICATIONS: 2. 4G/5. 8G 外置天线 SMA 母针

制作日期 Production date: 2025-08-01

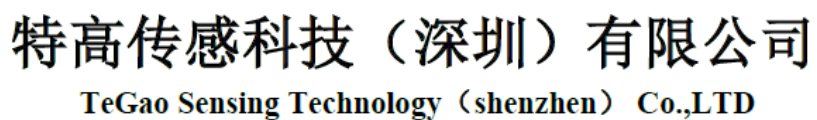
封样版本 Sample Version: V1.0

特高（TG）		
编制（FUNCTION） 夏逸	结构（SE） 何亮	研发（R&D） 唐师荣
客户（Customer）		
采 购（PUR）	品质（QC）	研发（R&D）

地址：深圳市龙华区大浪街道浪花路 4 号梵思诺数字产业园 1 栋 708

Address: Unit 708, Building 1, Fanson Digital Industrial Park, No. 4 Langhua Road, Dalang Subdistrict, Longhua District, Shenzhen

R & D, production and sales of professional wireless terminal antenna

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一、基本参数

A. Electrical Characteristics	
Frequency	2400MHz-2500MHz 5150MHz-5850MHz
VSWR	< 2.5
Avg Efficiency	>60%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2400MHz-2500MHz: 2.75dBi 5150MHz-5850MHz: 4.96dBi
B. Material & Mechanical Characteristics	
Material of Radiator	2.4G+5.8G 双铜管胶棒天线 Black
Cable Type	RG1.13 Black
Connector Type	SMA Male 母针（内孔） 黑色上下固 黑色杆套
Dimension	108mm*7.8mm
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 20 °C ~ + 60 °C



二、电性规格

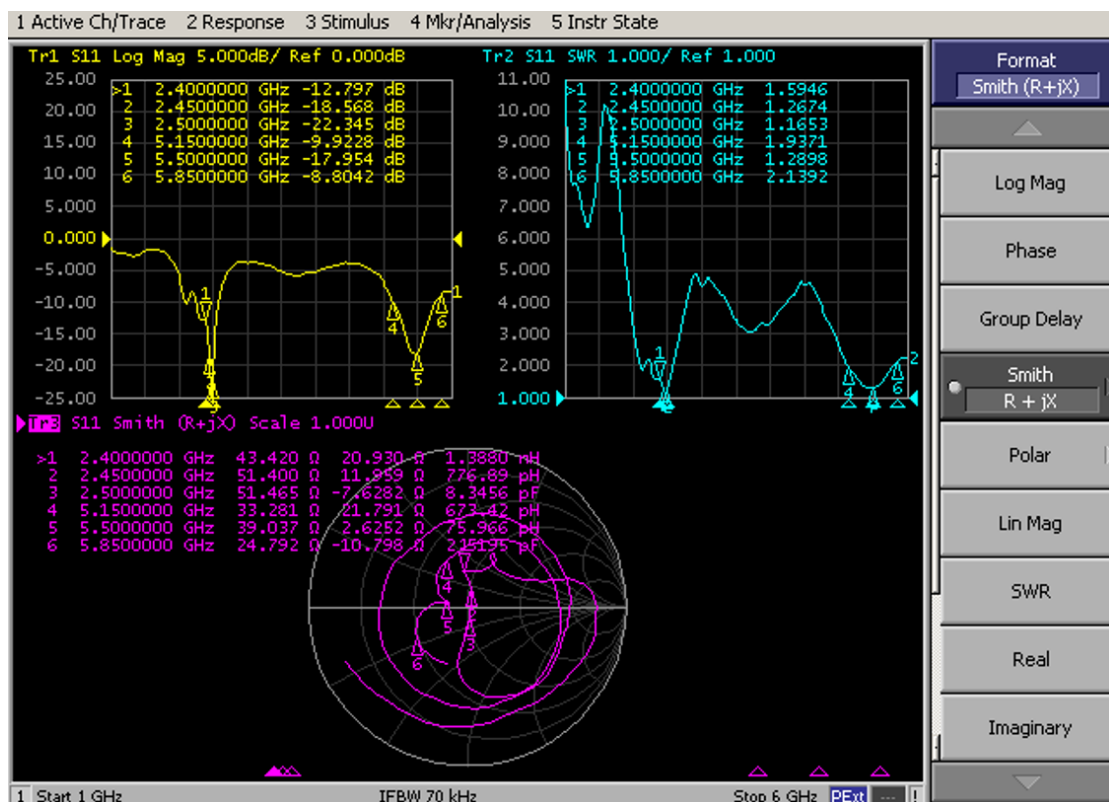
Those specifications were specially defined for _____ model.

三、VSWR

1 测量方法

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR
2. Coaxial cable length is 41.5CM
3. Keeping this jig away from metal at least 20cm

2 测量频率点和驻波比





四、 暗室简介

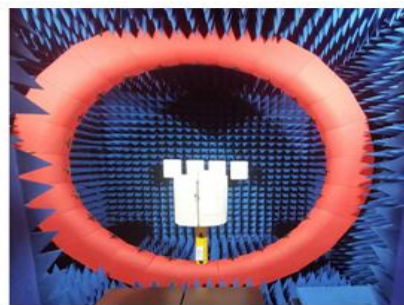
Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance :

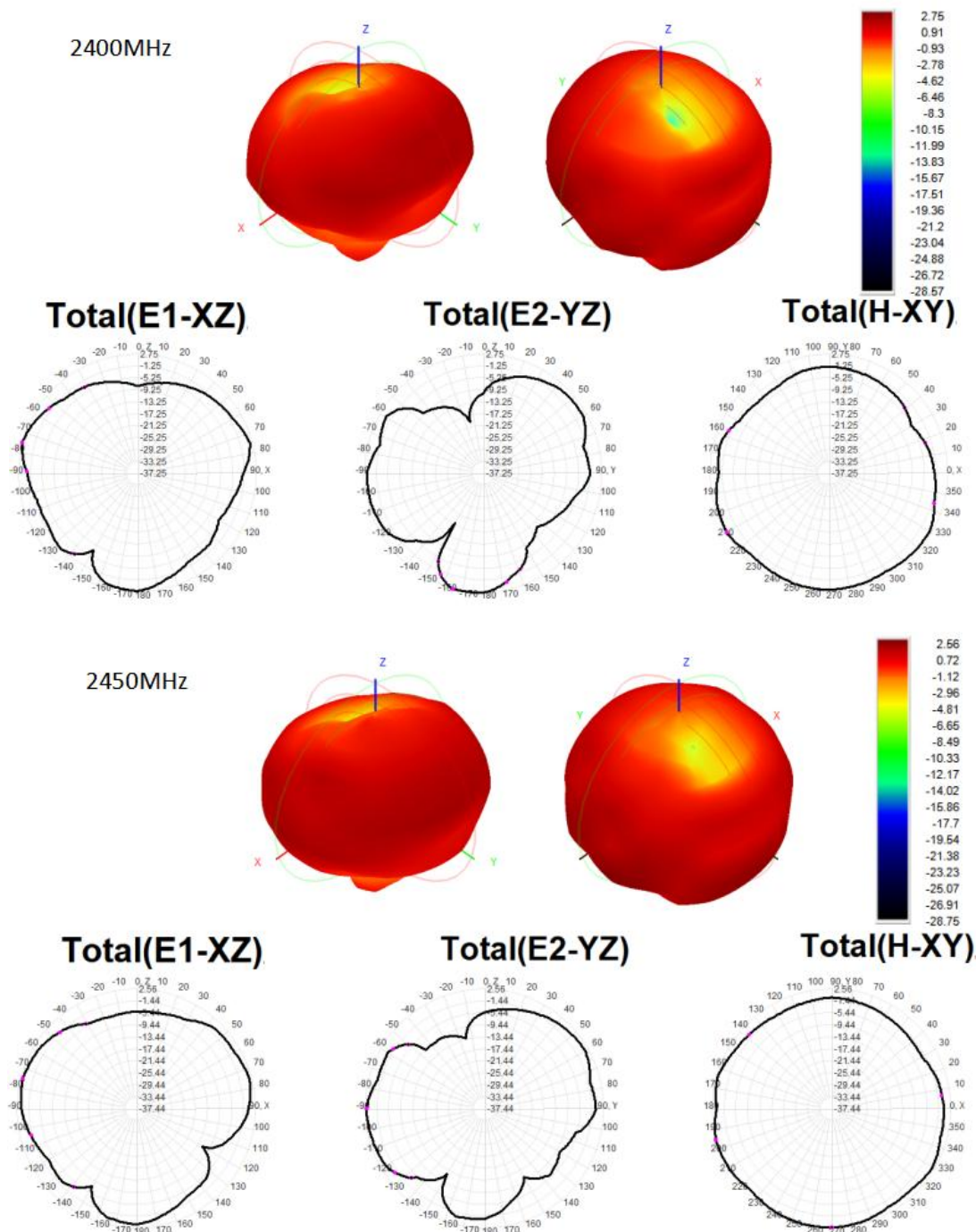
Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)





五、天线性能

无源场型图-2400MHZ-2500MHZ

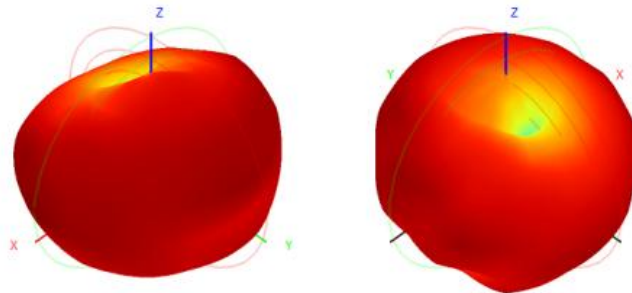




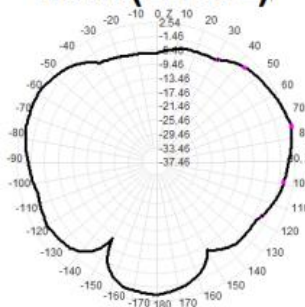
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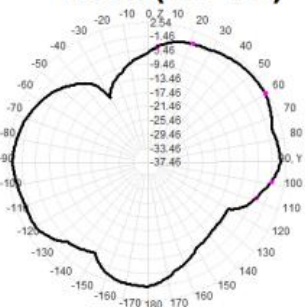
2500MHz



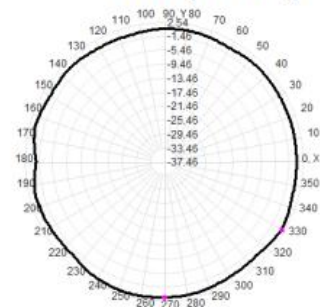
Total(E1-XZ)



Total(E2-YZ)



Total(H-XY)



无源效率增益-2400MHZ-2500MHZ

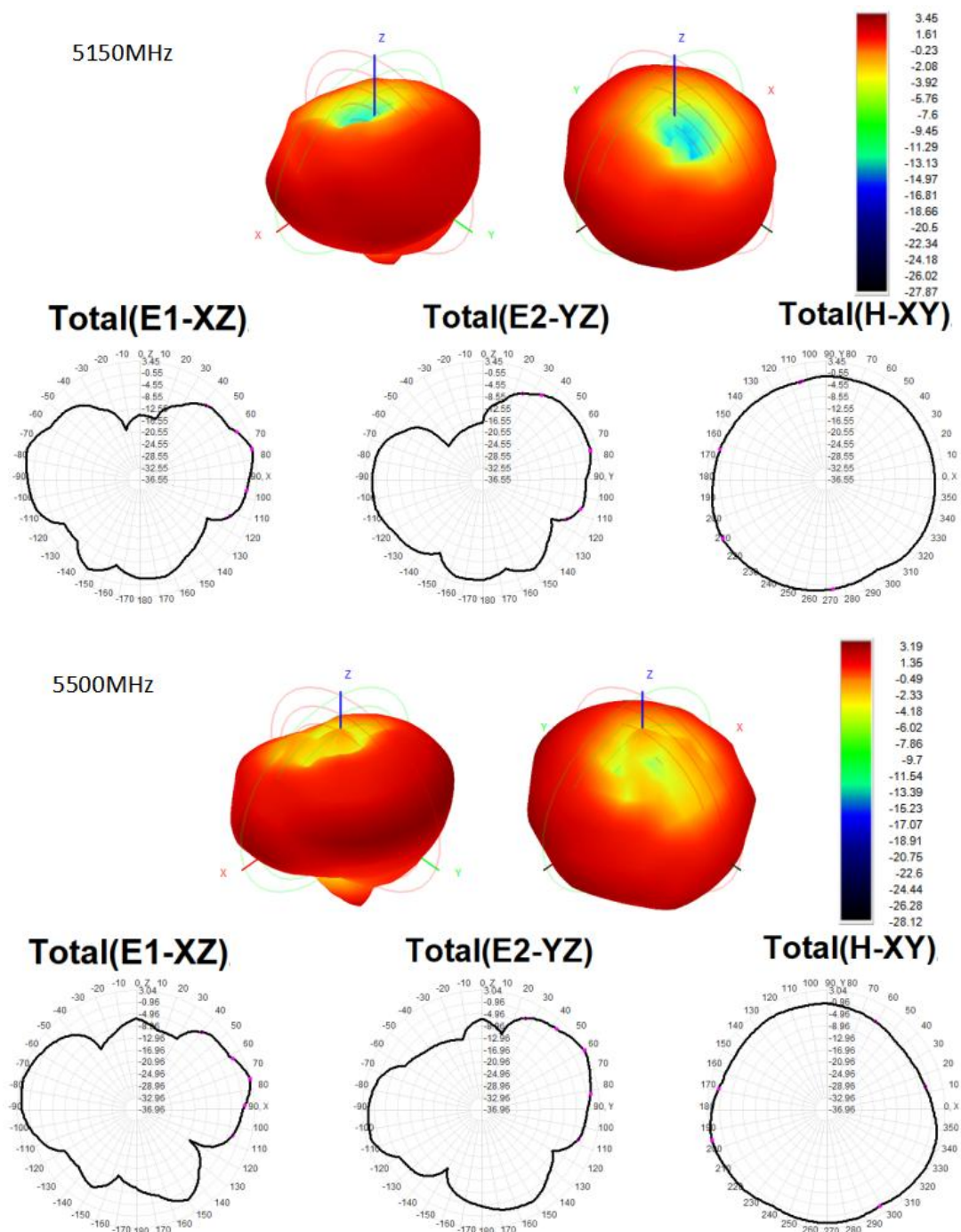
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	2.75	76.41
2410	2.70	79.54
2420	2.48	79.06
2430	2.64	80.33
2440	2.33	77.15
2450	2.56	77.46
2460	2.53	76.87
2470	2.19	73.53
2480	2.21	75.78
2490	2.53	79.81
2500	2.54	77.50



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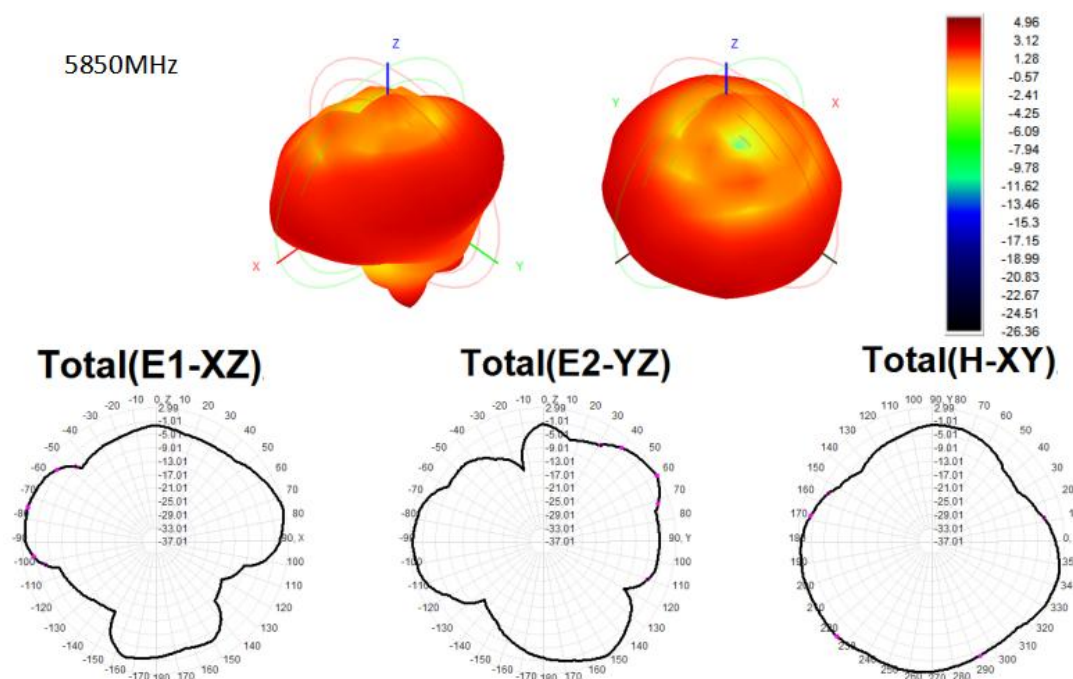
无源场型图-5150MHZ-5850MHZ





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无源效率增益-5150MHZ-5850MHZ

Frequency (MHz)	Gain (dBi)	Efficiency (%)
5150.0	3.45	67.89
5200.0	2.87	60.74
5250.0	2.57	61.89
5300.0	3.08	62.59
5350.0	2.86	62.04
5400.0	2.96	62.82
5450.0	2.72	60.47
5500.0	3.19	66.75
5550.0	2.54	63.76
5600.0	2.73	62.73
5650.0	3.61	68.34
5700.0	3.46	61.35
5750.0	4.35	65.82
5800.0	3.97	72.02
5850.0	4.96	70.51



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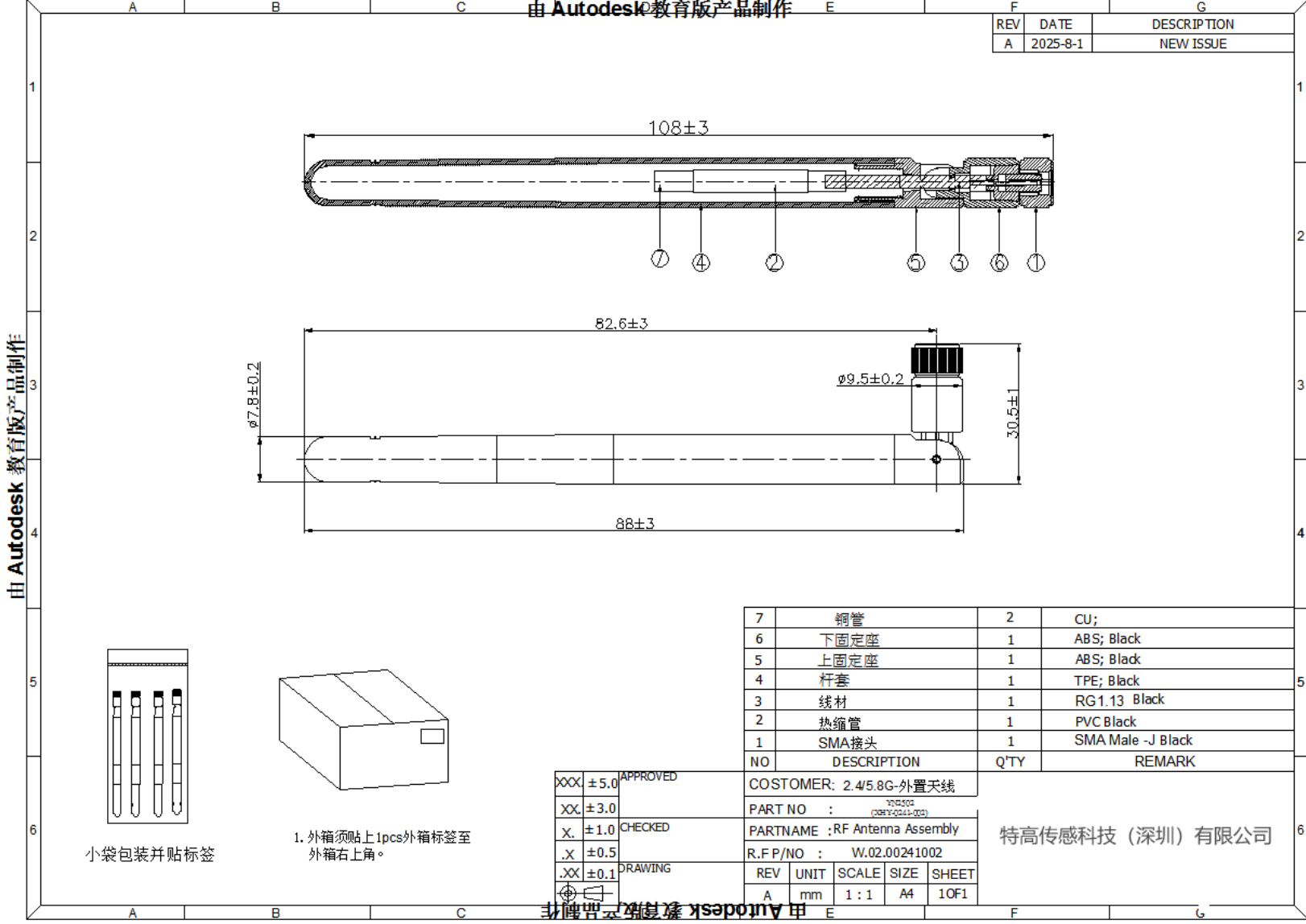
六、天线图片

Antenna photo





七、天线图纸尺寸





八、ROHS

Antenna W.02.00241002 meets RoHS requirements.

九、 产品包装说明

A. packing should meet the moistureproof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.

*****END*****