



深圳市鑫恒阳科技有限公司

<https://www.xhy-2008.com>

承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: 顶设

产品型号 Product Model: HS156-R

客户料号 Customer P/N :

鑫恒阳料号 X INHENG YANG P/N: TX. 10. A00520005

产品规格 SPEC IFFCATIONS: TWS

制作日期 Production date: 2024-6-22

封样版本 Samp le Version: V1

鑫恒阳（XINHENG YANG）		
编制（FICTION）	结构（Structure）	研发（R&D）
客户（Customer）		
采 购（PUR）	品质（QC）	研发（R&D）

Manufacturer：ShenZhenXinHengYangTechnologyco., Ltd

Address:

1st Floor, Building B, No. 7 Keji North 2nd Road, Nanshan District, Shenzhen

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

一、The basic parameters:

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 3
Avg Efficiency	>26%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2.4G:0.97dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	/
Connector Type	/
Dimension	/
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C

二、Electrical Specification :

Those specifications were specially defined for HS156-R model.

三、VSWR

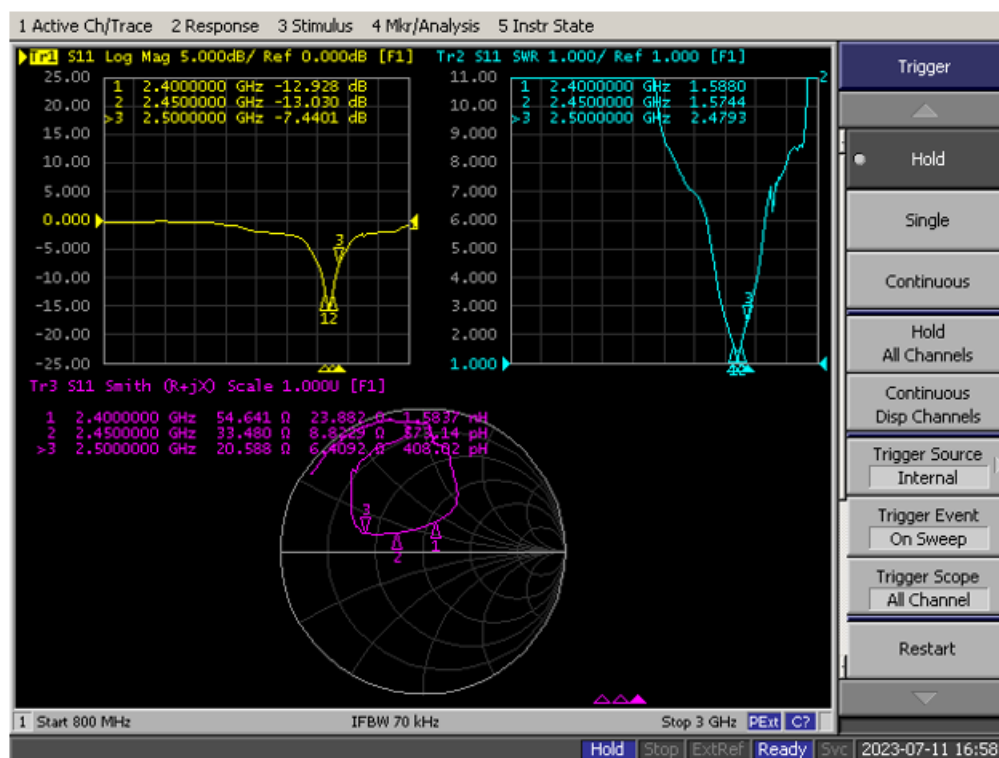
1 Measuring Method

1.A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value

Return Loss&VSWR-R





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四、 Anechoic chamber

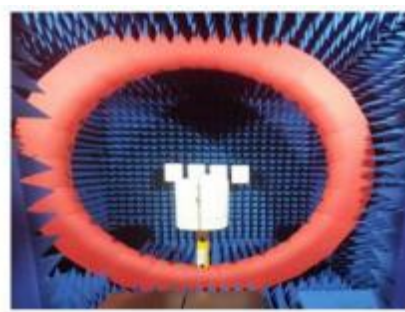
Introduction:

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.

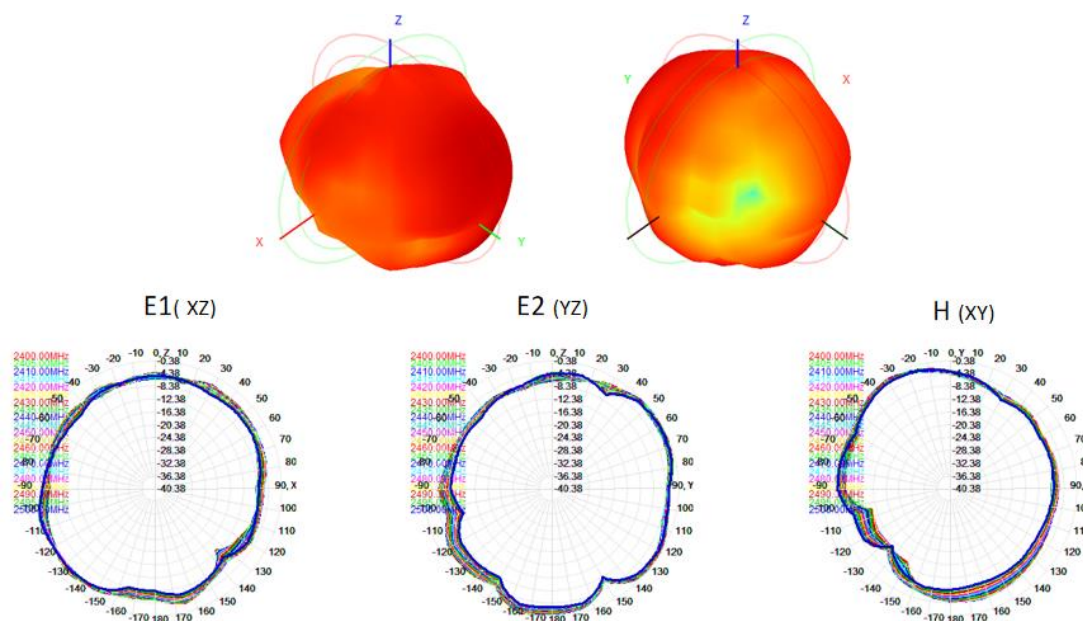
main performance :

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、Gain table of Antenna

无源场型图-R



无源效率增益

R		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	28.79	0.18
2410	29.12	0.27
2420	30.75	0.63
2430	31.32	0.75
2440	32.92	0.97
2450	33.31	0.91
2460	32.98	0.76
2470	31.74	0.51
2480	30.22	0.45
2490	29.25	0.58
2500	27.04	0.56

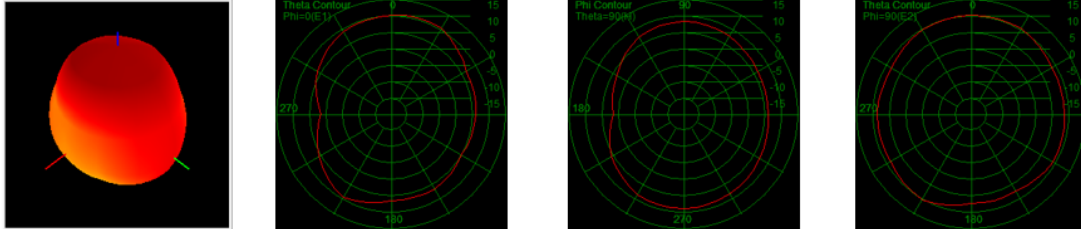


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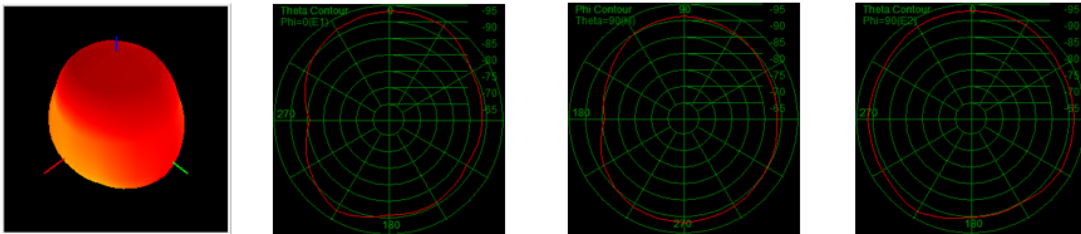
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有源自由空间场型图-R-ch0

TRP

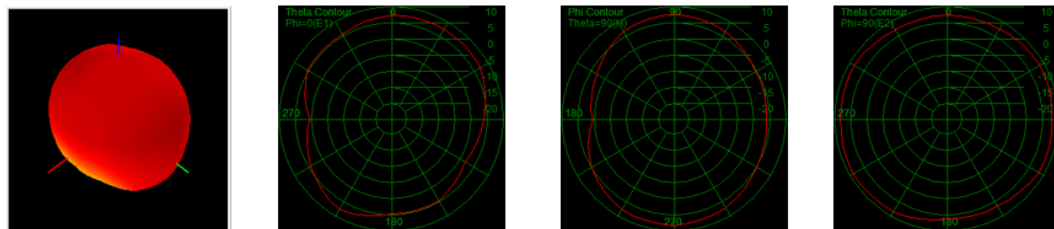


TIS

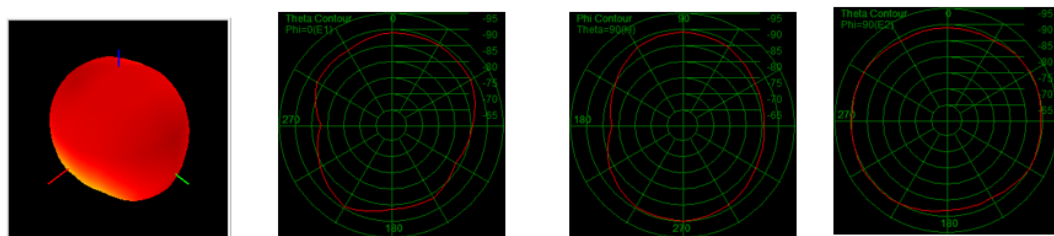


有源自由空间场型图-R-ch39

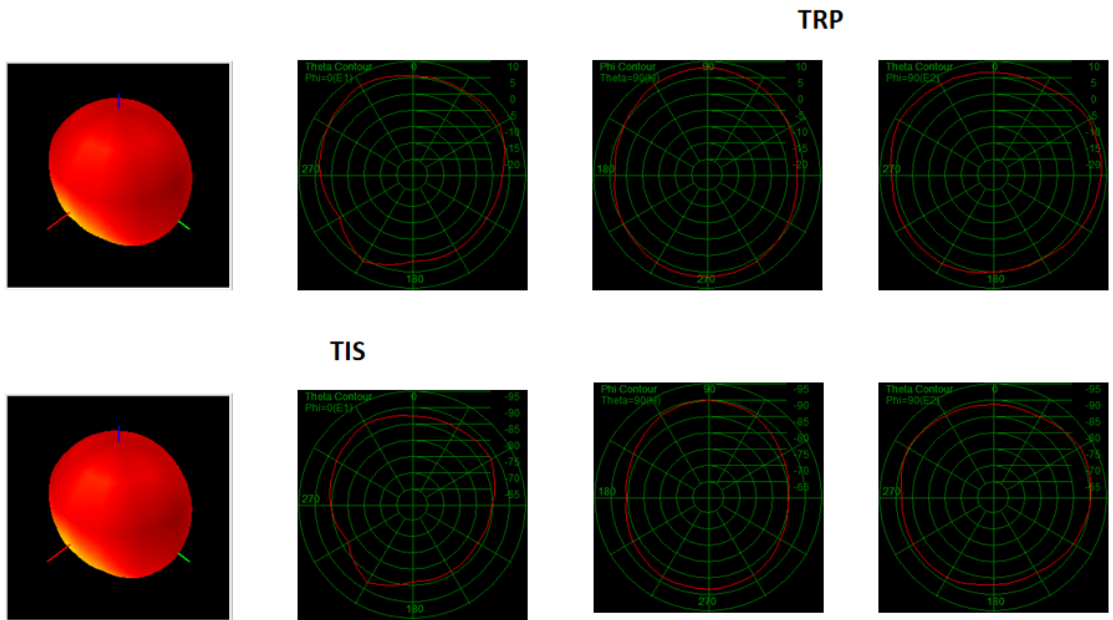
TRP



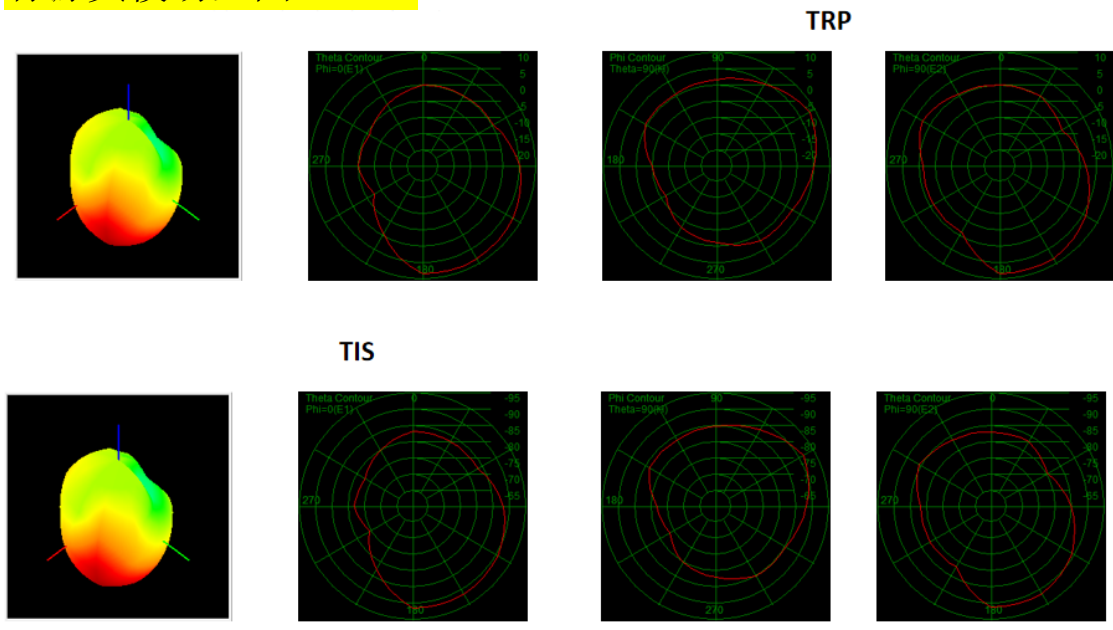
TIS



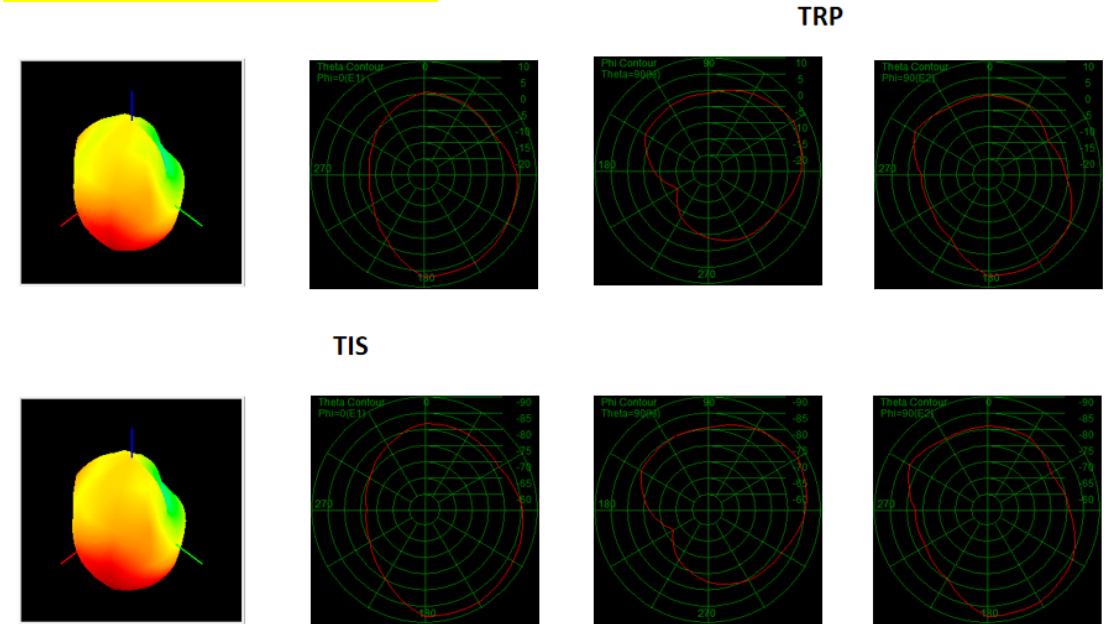
有源自由空间场型图-R-ch78



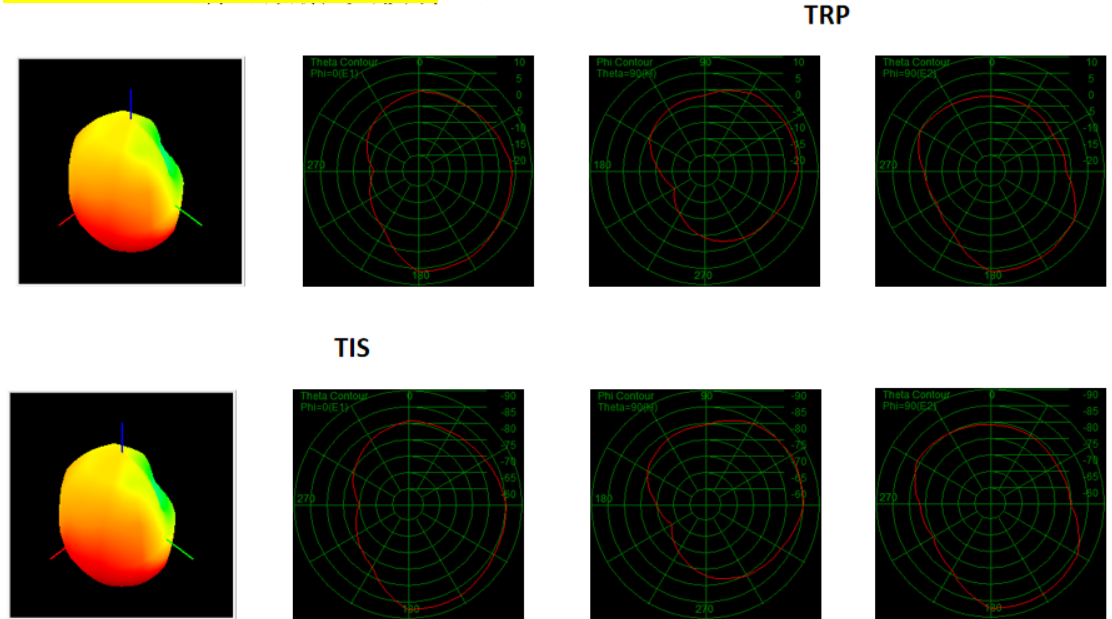
有源头模场型图-R-ch0



有源头模场型图-R-ch39



有源头模场型图-R-ch78





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OTA 有源

R				
BAND	自由空间		头模	
	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
0	7.77	-90.53	2.65	-85.72
39	6.61	-88.19	0.81	-82.31
78	5.95	-87.87	0.33	-81.62

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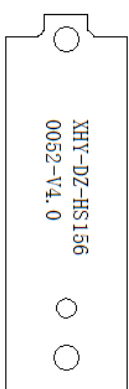
<https://www.xhy-2008.com>

六、 Machine Picture:



五

-
- Technical drawing of a rectangular component. The drawing shows a cross-section with a hatched pattern. The overall width is labeled as $\phi 6.1 \pm 0.2$. The overall height is labeled as $\phi 19.12 \pm 0.2$. The component features two circular holes on the left side and two circular holes on the right side. A label "无胶区" (No glue area) points to the top and bottom edges. A label "正面背胶" (Front and back glue) points to the two circular holes on the right side.



FPC黄色 丝印亮白色字码
总厚度(含离型纸)0.25±0.05mm

6	7	8
REV	DATE	DESCRIPTION
REV1	2024-06-22	首次发行

[illegible]

八、 ROHS:

Antenna TX. 10. A00520005 meets RoHS requirements.

九、 **Product packaging instructions:**

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*****