MUSILAB

Shenzhen AngSi Technology Co., LTD

Specification Approval Sheet

Vender Name	i-Top Design Technology CO.,LTD
Vender Address	605, 2# Building, Gaoxinqi Industrail Park ,Longchang Road,Bao'an District, Shenzhen City,China
Project Name	TBA6026
Part Name	TBA6026
Part Number	TBA6026-BT-V2.4
Part Version	V2.4
Part Spec.	33.2MM±0.2MM*7.68MM±0.2MM BT Antenna

The materials meet the following environmental requirements:

☐Banned and Monitored Substances Control Standard(Latest Edition)

☐Halogen-free technical standard

Vender Confirm (Stamp)	Prepared by	Checked by	Approved by

Customer Approved (Stamp)	Sourcing	DQ	RD	Approved by

Number	Effective date	Change record
V2.4	2024-11-08	Initial release

1、The basic parameters

A. Electrical Characteristics	
Frequency	**2400MHZ~2500MHZ**
VSWR	**< 2.0**
Avg Efficiency	**>20%**
Impedance	**50 ± 25 Ohm**
Polarization	**Linear**
Peak Gain	**2.4G:-0.32dBi**
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**

2、Electrical Specification

Those specifications were specially defined for 6026 model.

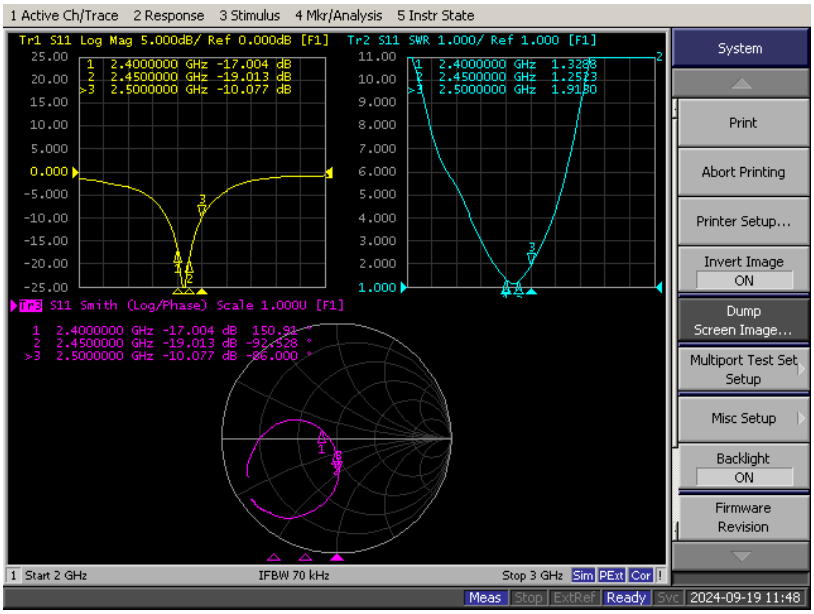
3、VSWR

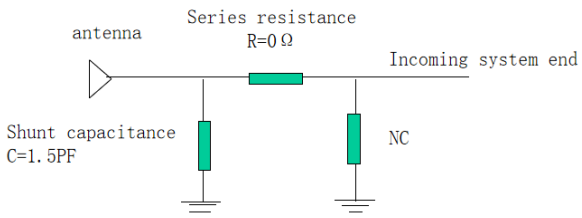
1 Measuring Method

1.A 50Ωcoaxial 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





The left and right ears match the same parameters

4、 Anechoic chamber

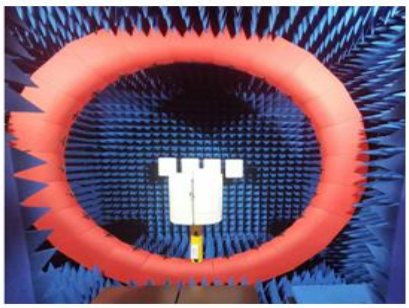
Introduction:

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.

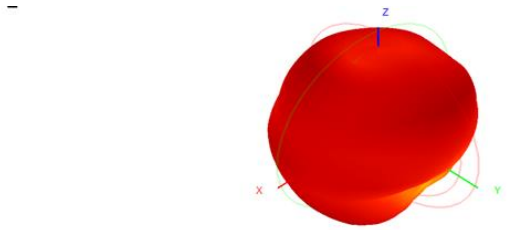
main performance ：

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)

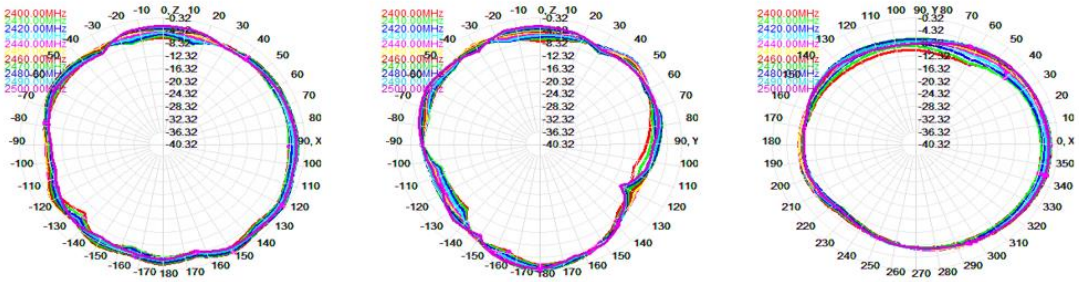


5、Gain table of Antenna

Passive field pattern -2400MHZ-2500MHZ



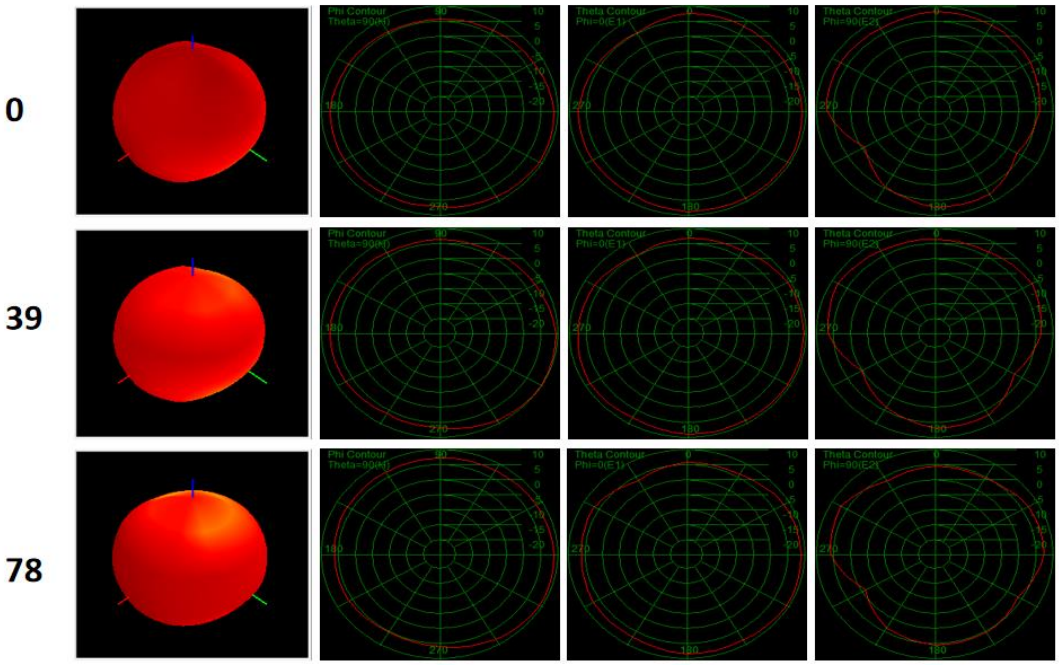
E1(XZ)　　E2 (YZ)　　H (XY)



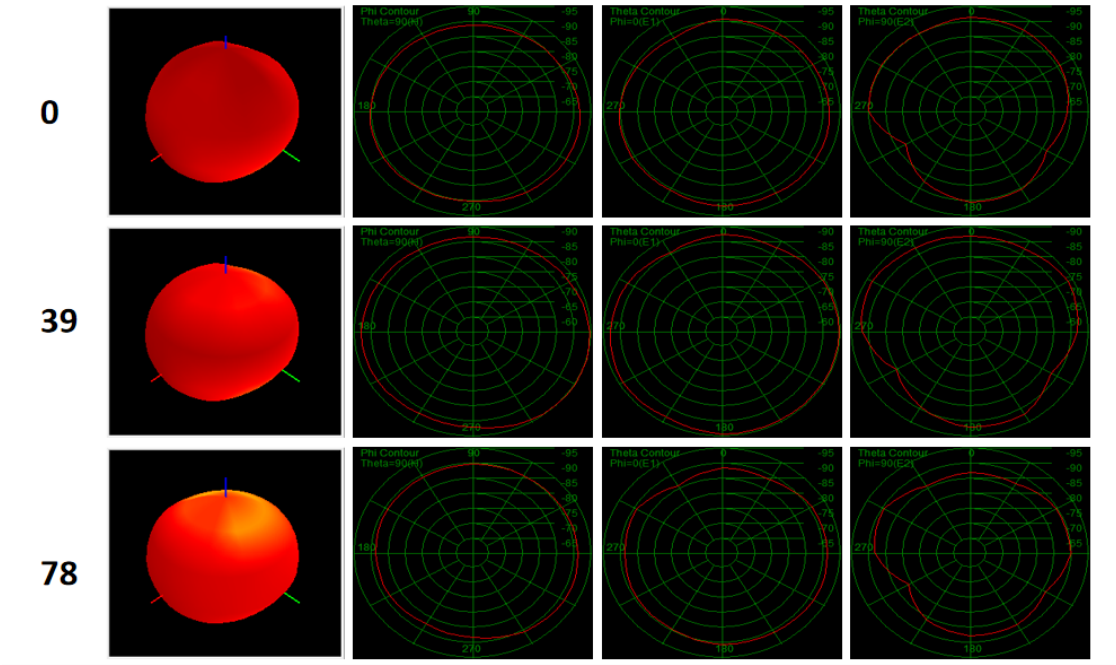
Passive efficiency gain

L		
Freq (MHz)	Effi(%)	Gain (dBi)
2400	22.76	-2.24
2410	23.83	-1.89
2420	25.90	-1.53
2430	27.93	-1.09
2440	30.37	-0.72
2450	31.87	-0.46
2460	32.31	-0.32
2470	31.87	-0.37
2480	30.89	-0.56
2490	30.06	-0.74
2500	28.89	-0.97

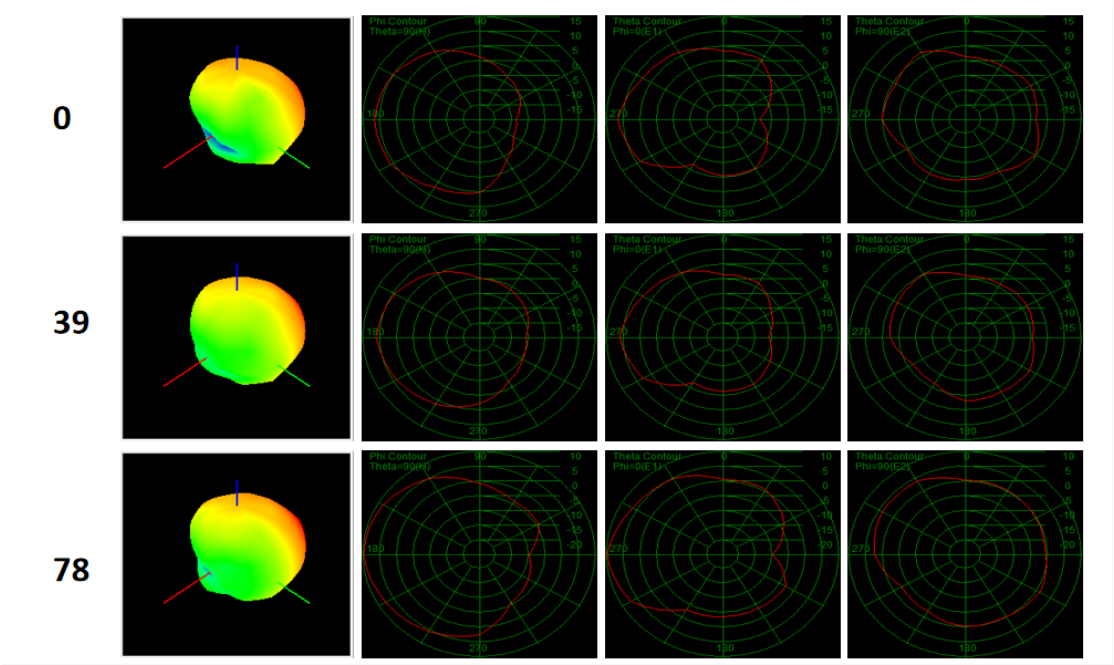
Active free space field pattern-TRP



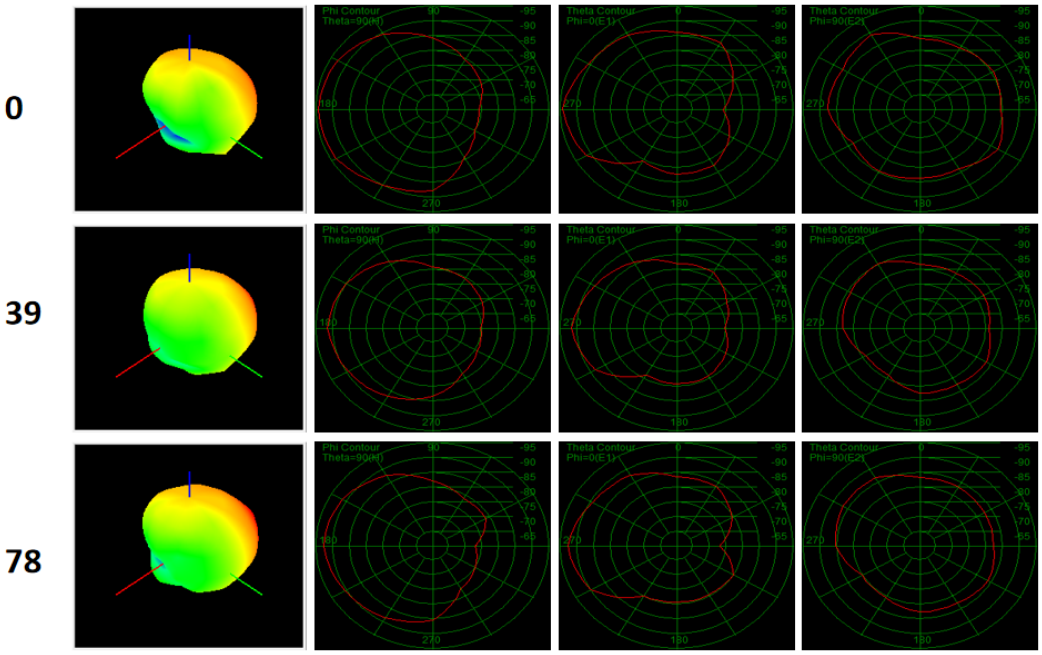
Active free space field pattern-TIS



There are source mode field patterns-TRP



There are source mode field patterns-TIS

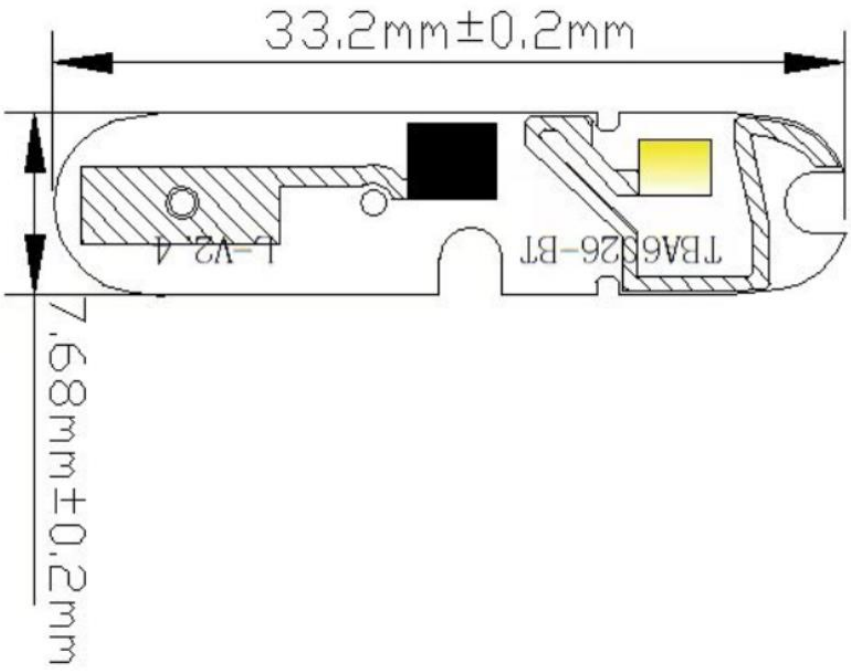


OTA active

Free space			Head mold		
BAND	TRP（dBm）	TIS（dBm）	BAND	TRP（dBm）	TIS（dBm）
0	6.79	-89.86	0	4.50	-87.25
39	6.93	-87.35	39	3.64	-84.17
78	6.28	-88.71	78	2.67	-85.53

6、Machine picture

7、Antenna drawing size



8、ROHS

Antenna NZ. 01. 0000175 meets RoHS requirements.

9、 Product packing 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**********