昊一源科技有限公司

编号：

版本：

Component Approval Sheet

Product Name:	M71T
Part Number:	3002040261
Product Model:	A6701
Vendor:	SPEED
P/N:	F-KA-N2-0003-000-K0

SPEED TECHNOLOGY

Manufacturer: SPEED Communication Technology Limited
Manufacturer Address: Room 202, 1F, Building A, Guoren Building,
No. 5 Keji Middle Third Road, Science Park, Yuehai Street, Nanshan District, Shenzhen.

Approval sheet of
A6701-TX
Internal Antenna

Customer/Project		M71T	Frequency Band		BT
3002040261		3002040261	Version		T3.2
Date		12/12/2024			
Material Code		F-KA-N2-0003-000-K0			
SPEED					
Checked by	RF	ERICGUO	Design by	RF	LIZHENGQUAN
	ME	ERICGUO		ME	QIUHONG
	QC	JINGCHUNMEI	Remark		ERICGUO
Customer					
Date					
Confirmed by		RF			
		ME			
Remark					

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1. Indication

This report summarizes the electrical performance structure diagram confirmed by the user of the lower antenna of the 6701 TX project. The antenna bracket is a component inside the microphone (see Figure 1).

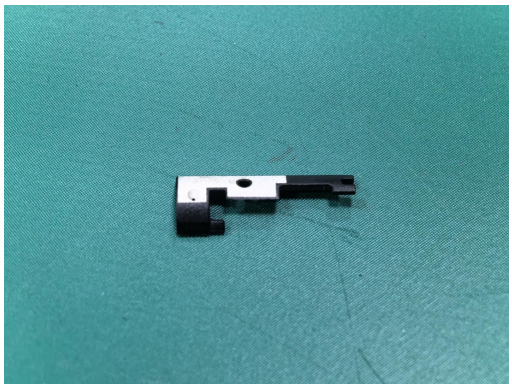
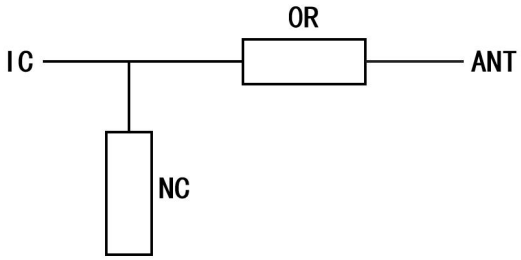


Figure 1: Proposed Antenn

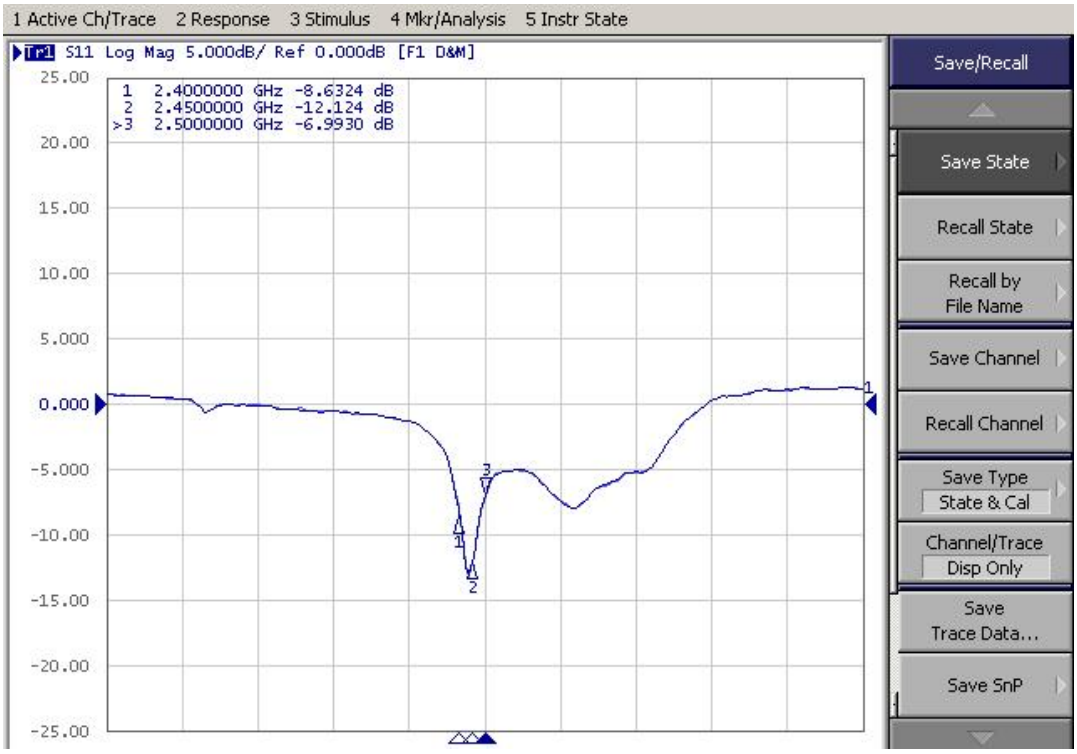
2. Matching Circuit Description

Matching circuit provided by customers.



2.2.1 VSWR

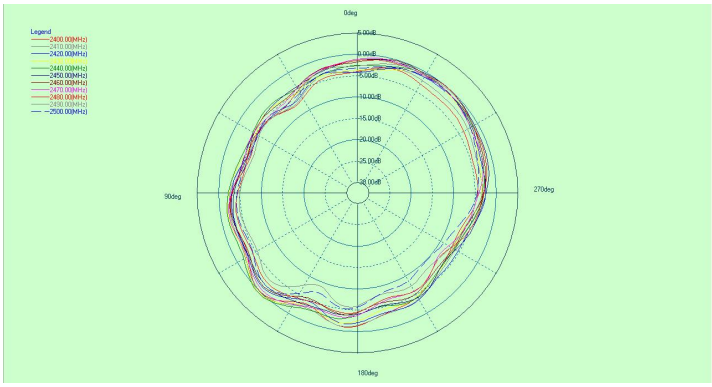
Use Agilent 5071C network analyzer and the described test fixture to measure VSWR (S11). Testing in frees pace.



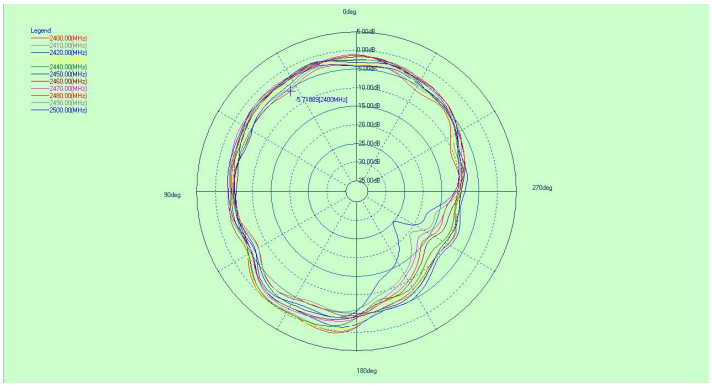
2.2.2 Gain & Radiation Patterns

The gain and efficiency of the antenna are measured in a microwave anechoic room system. The measurement range from 600MHz to 6GHz can be provided. The measurement results are calibrated by dipole and horn standards.

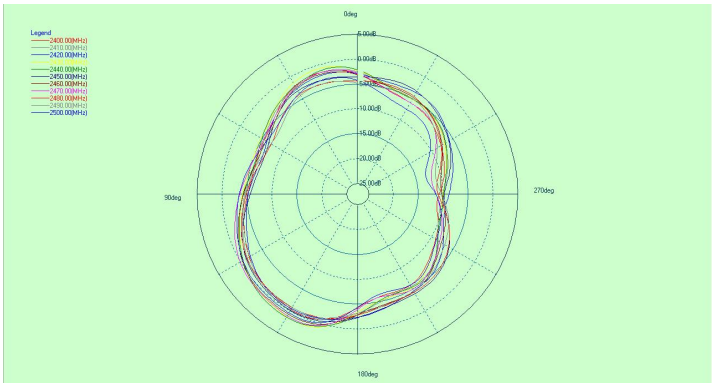
Frequency(MHZ)	Efficiency(db)	Efficiency(%)	Peak Gain（dbi）
2400	-4.22	37.9	1.98
2410	-3.85	41.3	2.22
2420	-3.34	46.3	2.59
2430	-3.27	47.1	2.75
2440	-3.35	46.2	2.56
2450	-3.35	46.3	2.36
2460	-3.59	43.8	2.10
2470	-3.86	41.1	1.88
2480	-3.91	40.6	1.56
2490	-4.21	38	1.32
2500	-4.57	34.9	1.12



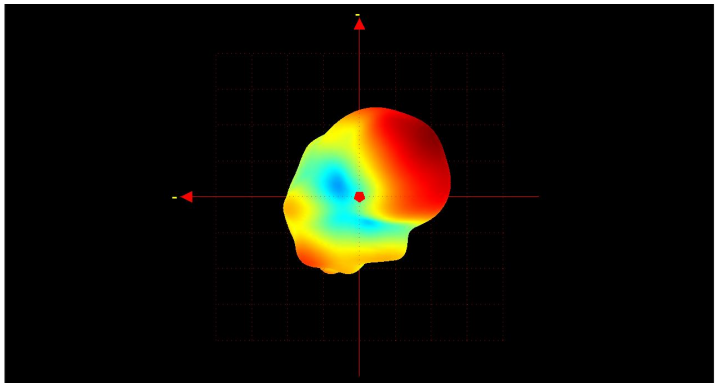
Phi=0



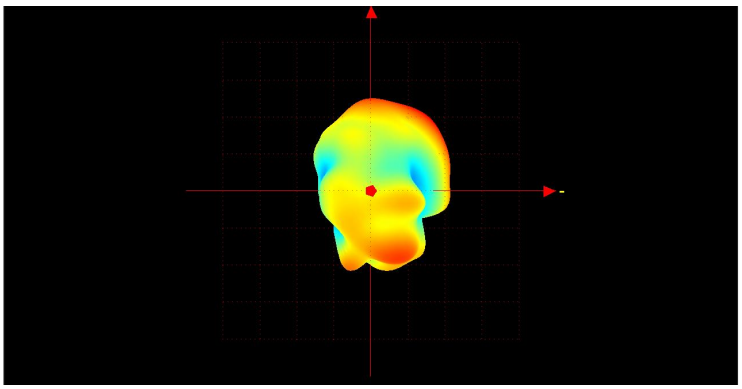
Phi=90°



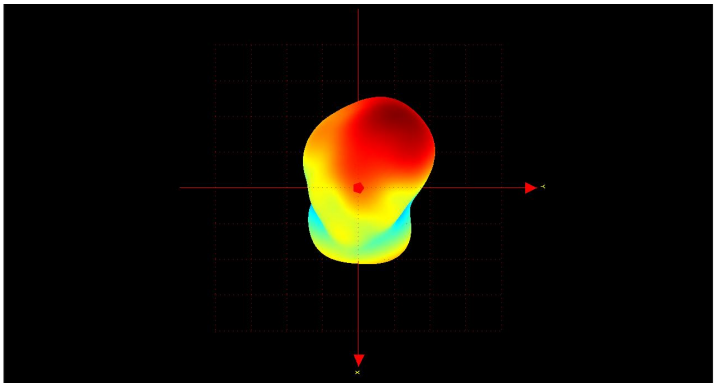
Theta=90°



3D:XOZ



3D:YOZ



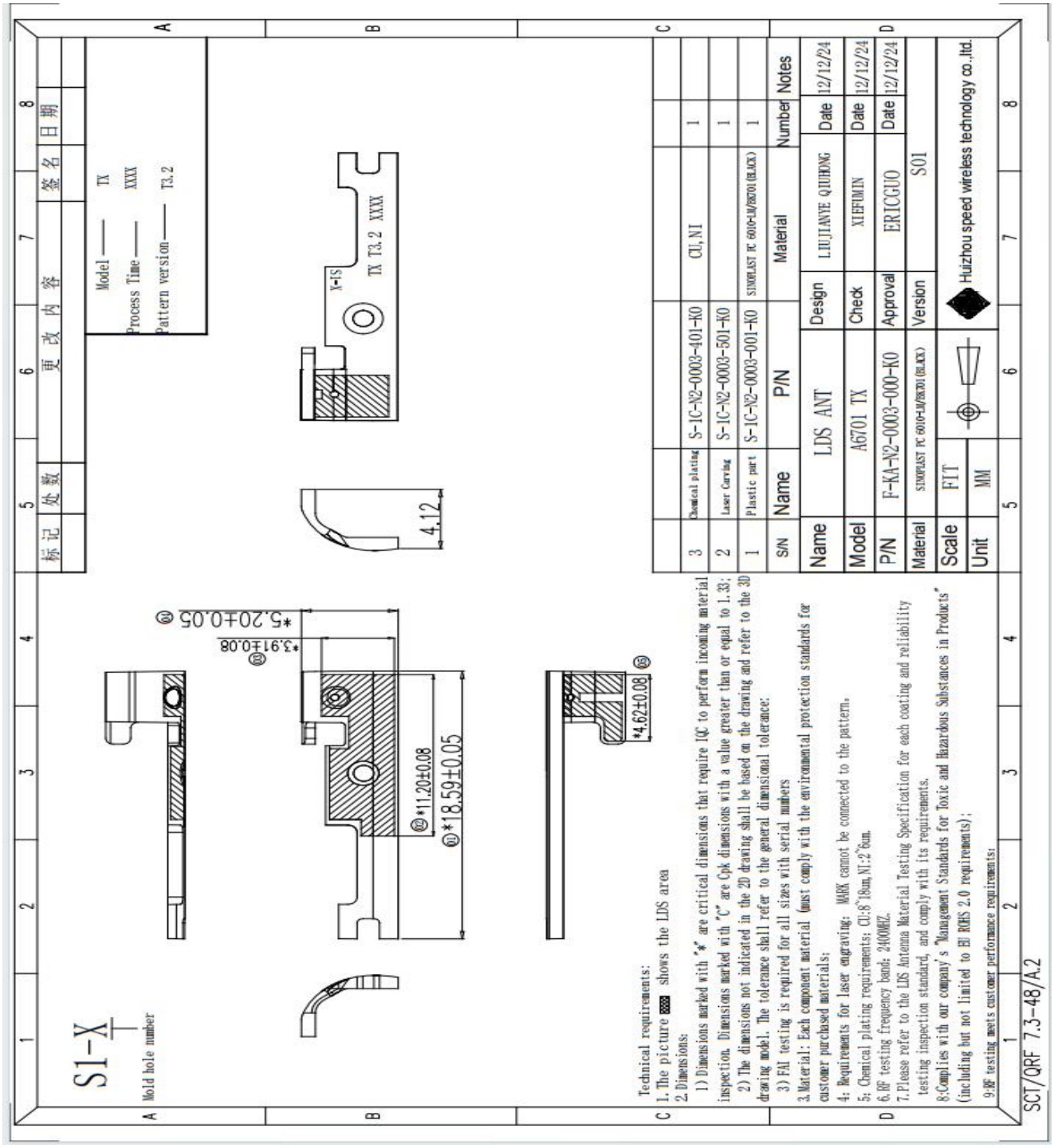
3D:XOY

3. Suggestions and Conclusion

This paper summarizes the electrical performance and structure diagram of the antenna confirmed by the customer, and tests the antenna with the prototype microphone test fixture provided by the customer.

4.Attachment

4.1Appearance drawing:



4.2 Appearance drawing(2D/3D)

A6701 TX_ASM_1111.stp

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