



HEYIXUN

Shenzhen Heyixun Technology Co., Ltd.

Customer	Jialide
Project	750
Antenna Revision	A2
Prepared by	15993920520
Checked by	17279710721
Date	2024. 10. 16

## ***Purpose***

This report is to measure the performance of antenna for **750** The antenna operating frequency at 2400-2500MHz All test data are showed as below.

01

● 1. Test system

02

● 2. Product Overview & Dimension

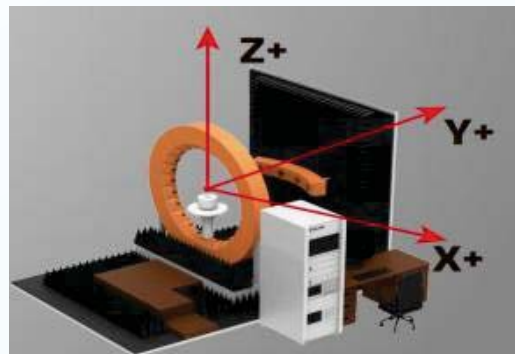
Content

03

● 3. OTA Data

# 1. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



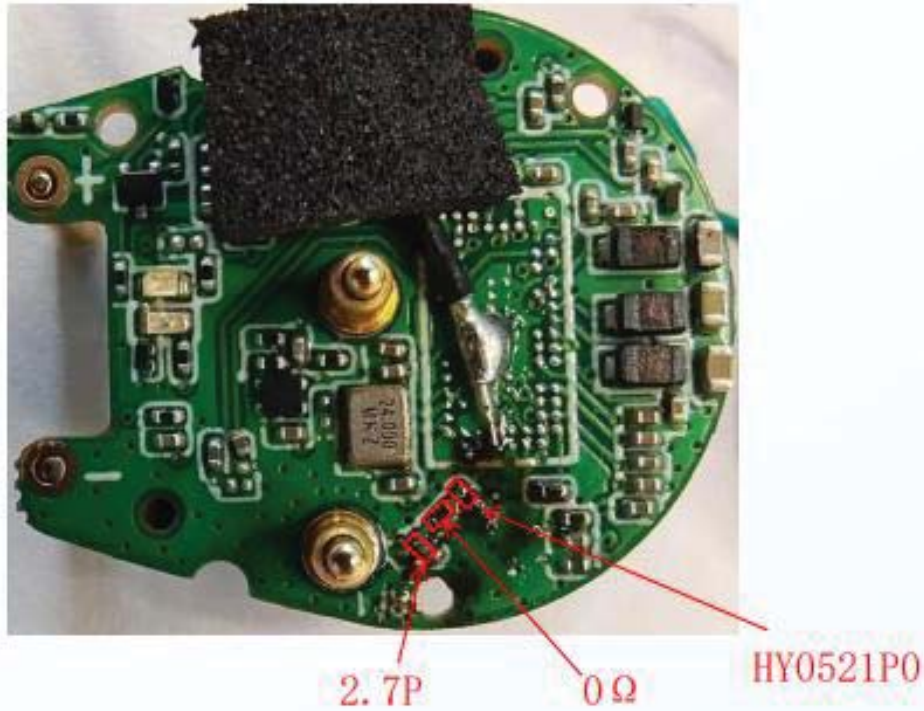


Shenzhen HeYixun Technology Co., Ltd.

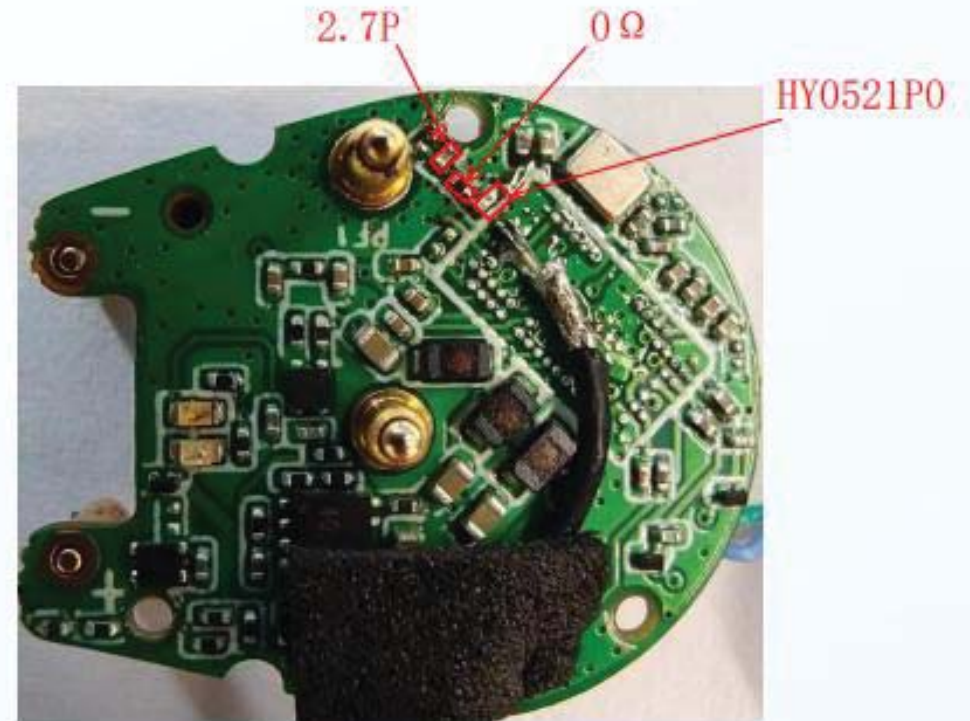
---



L



R



## 2. Test Result VSWR&Log Mag&Smith( $\Omega$ ) L



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-4.56	-18.45	-9.70	-5.59
Smith( $\Omega$ )	26.88	50.65	25.54	16.14
VSWR	3.88	1.27	1.97	3.20



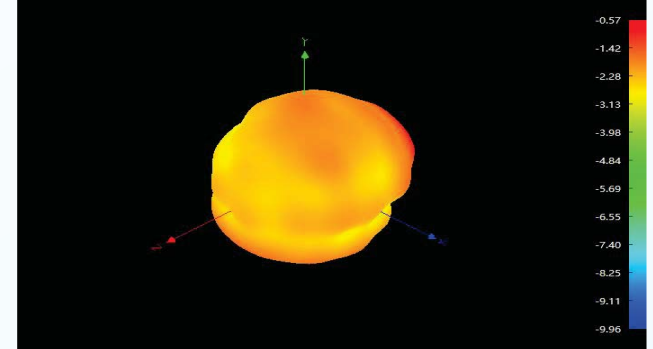
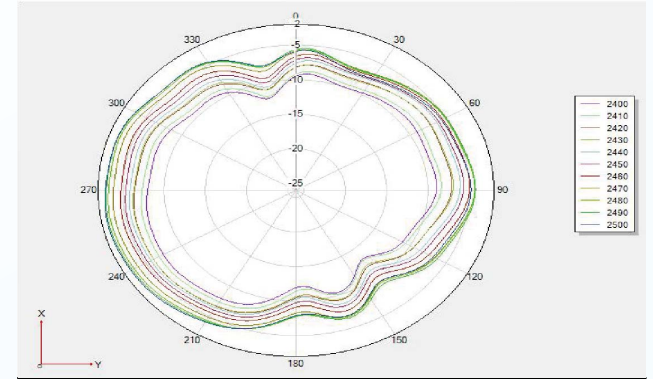
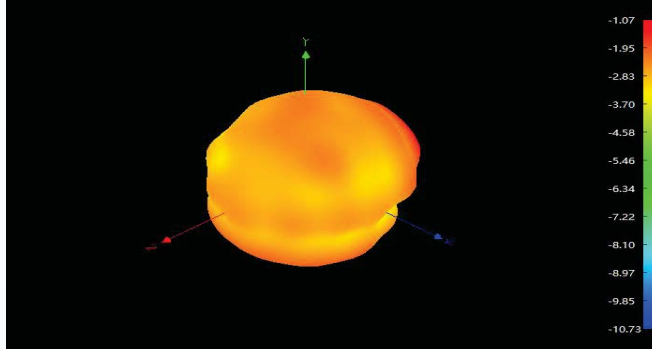
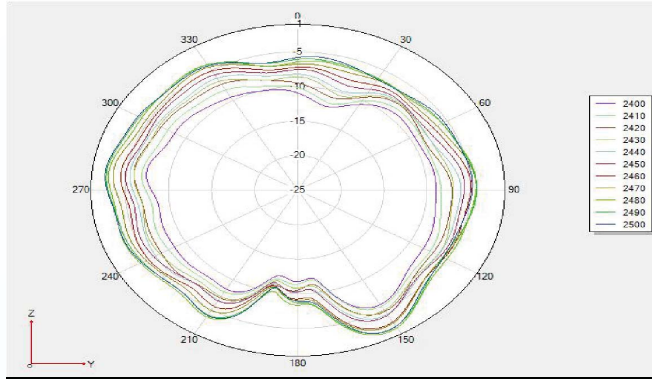
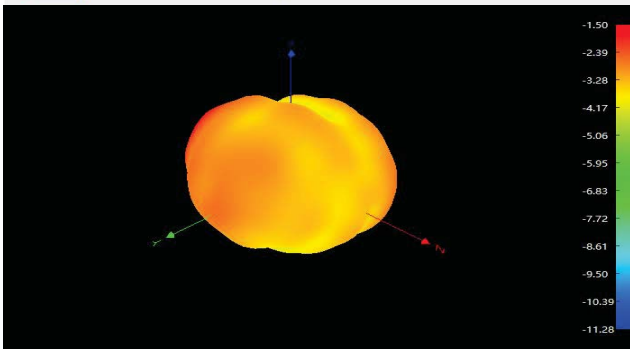
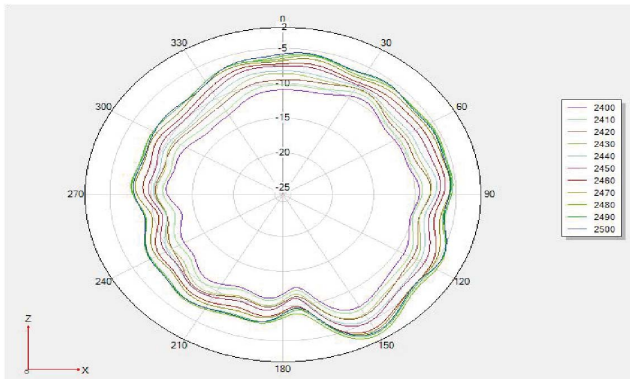
### 3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	23.76	-1.50
2410	22.62	-2.77
2420	24.14	-2.97
2430	24.33	-2.91
2440	26.75	-1.12
2450	26.82	-2.74
2460	28.32	-0.57
2470	27.64	-1.27
2480	25.58	-2.57
2490	24.04	-2.12
2500	25.12	-1.07



### 3. Test Result

#### 3.1 2D Pattern—BT ANT





## 2. Test Result VSWR&Log Mag&Smith( $\Omega$ ) R



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-4.07	-13.65	-11.43	-6.83
Smith( $\Omega$ )	22.70	50.16	29.80	19.67
VSWR	4.33	1.52	1.73	2.67



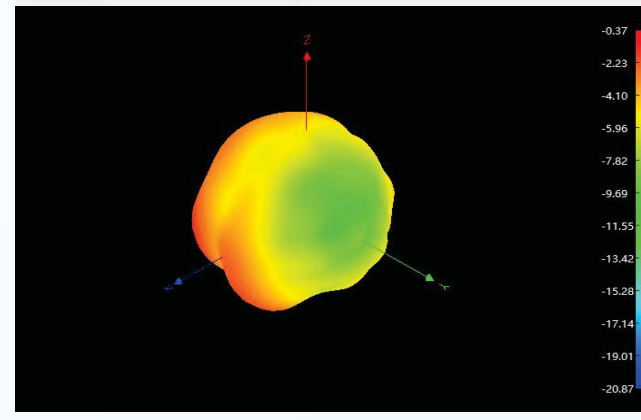
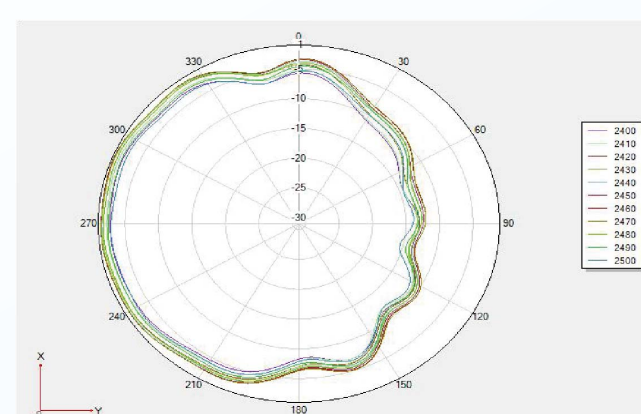
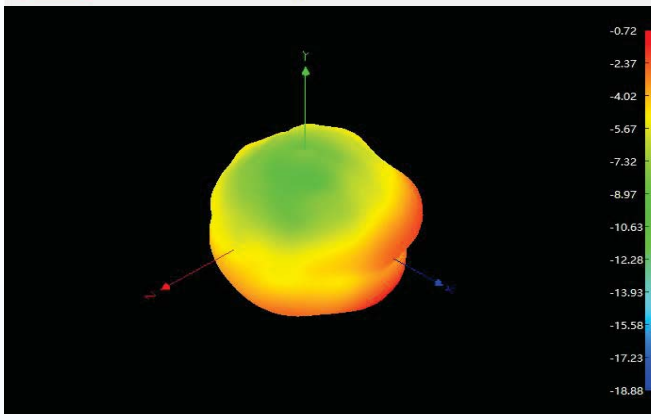
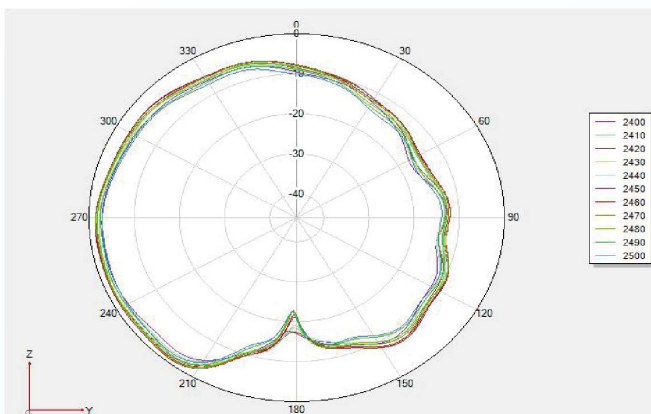
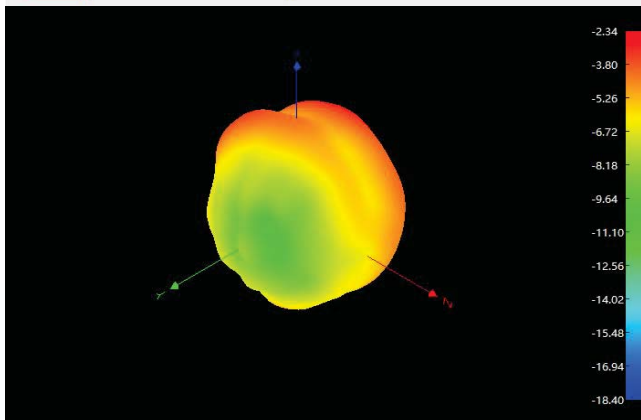
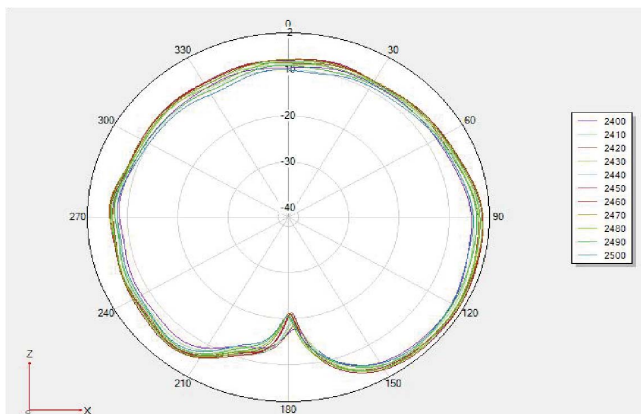


### 3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	24.68	-2.34
2410	23.71	-1.62
2420	24.32	-1.17
2430	25.73	-0.96
2440	27.23	-0.72
2450	26.41	-0.89
2460	28.55	-0.37
2470	27.11	-0.59
2480	26.79	-0.54
2490	25.49	-1.41
2500	24.63	-1.83

### 3. Test Result

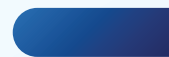
#### 3.1 2D Pattern—BT ANT





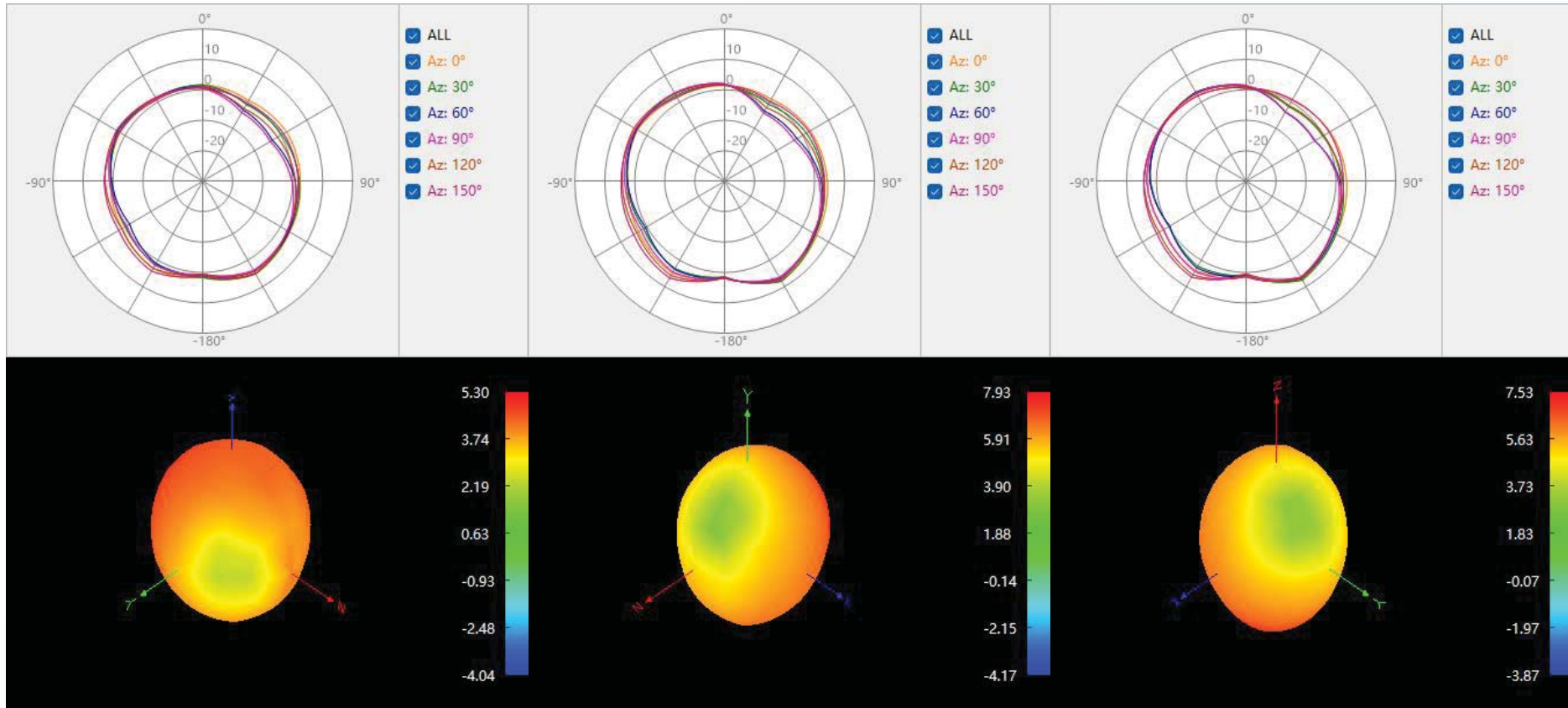
### 3.OTA Data

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	L	0	2.48	-88.41
		39	3.92	-89.22
		78	2.98	-88.65
	R	0	2.71	-88.11
		39	3.24	-89.41
		78	1.98	-88.35



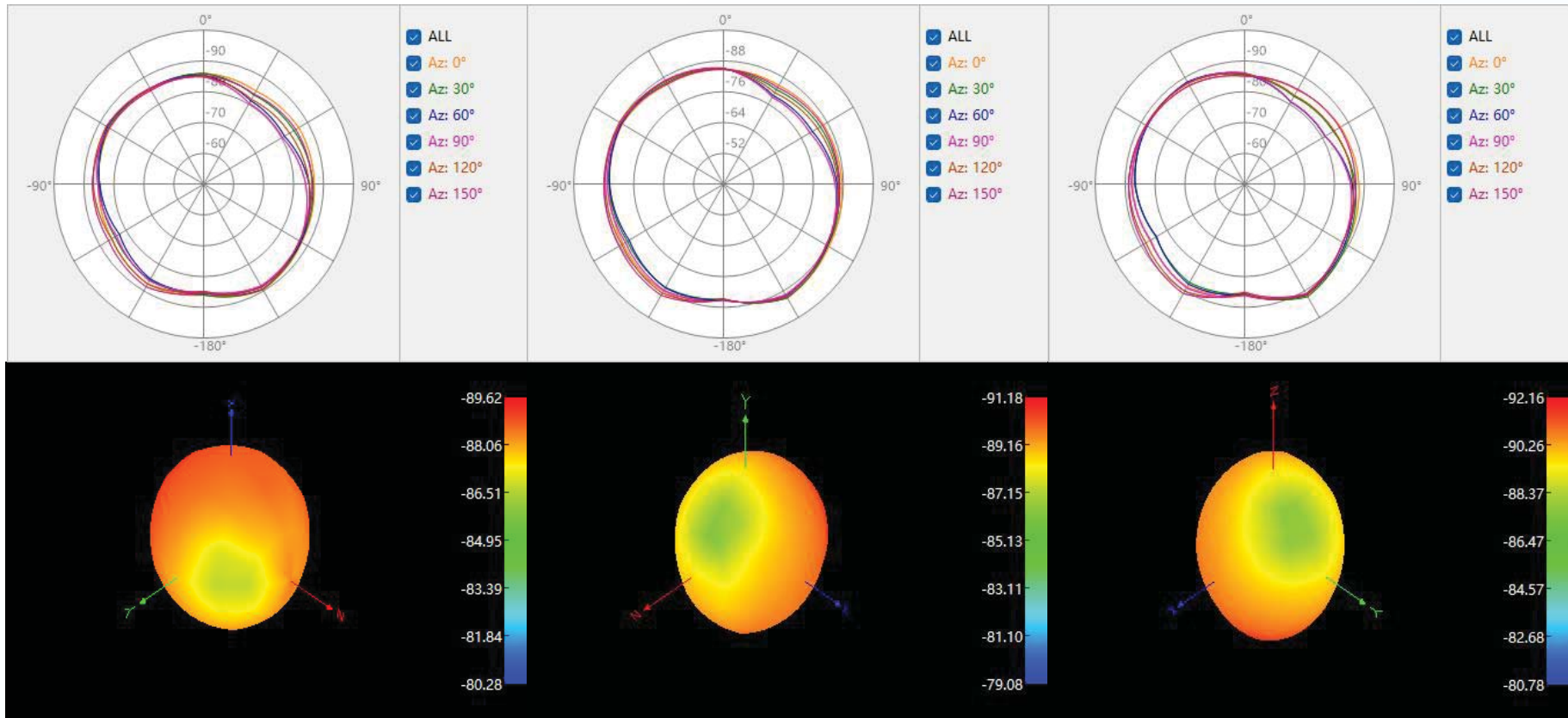
### 3. Test Result

### L-TRP



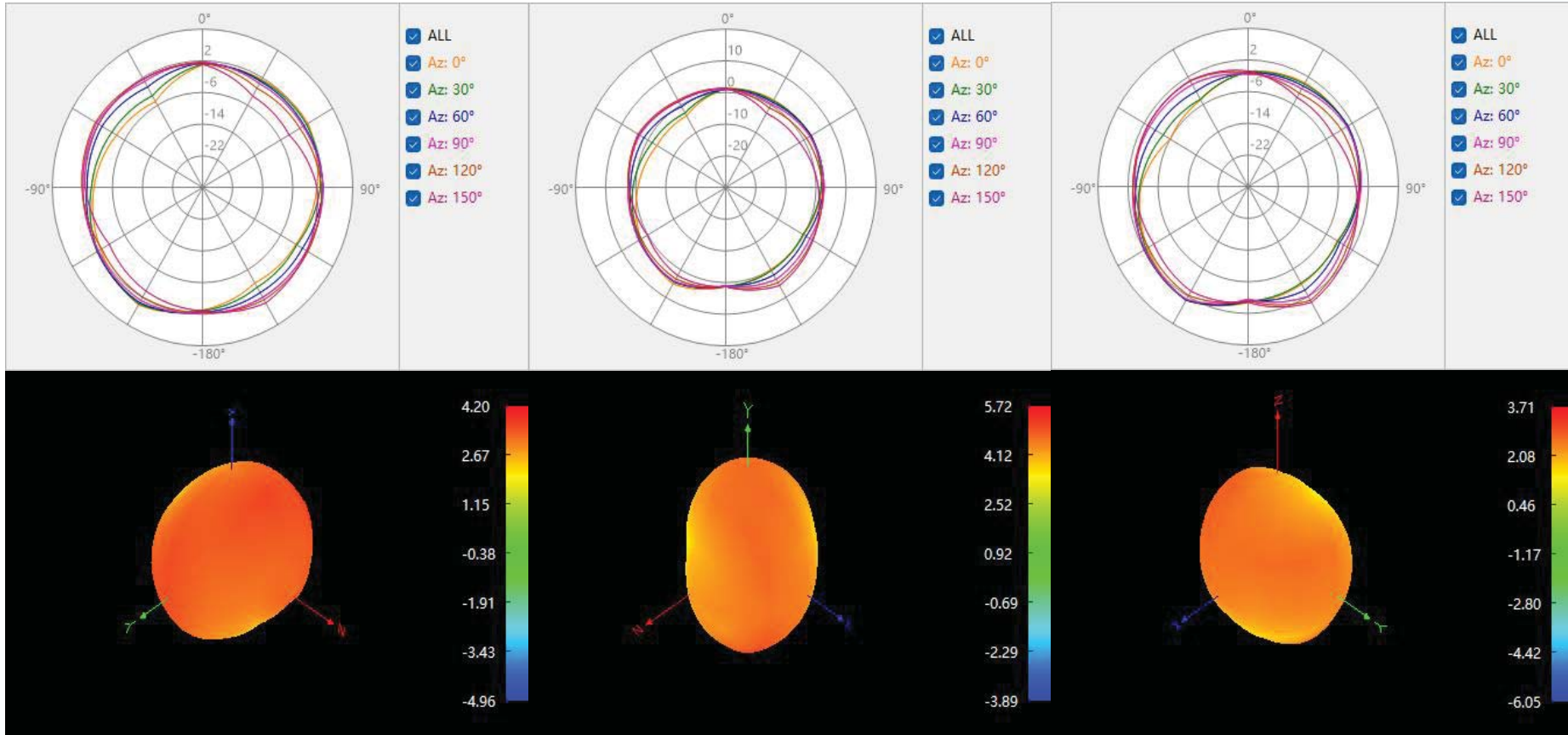
### 3. Test Result

### L-TIS



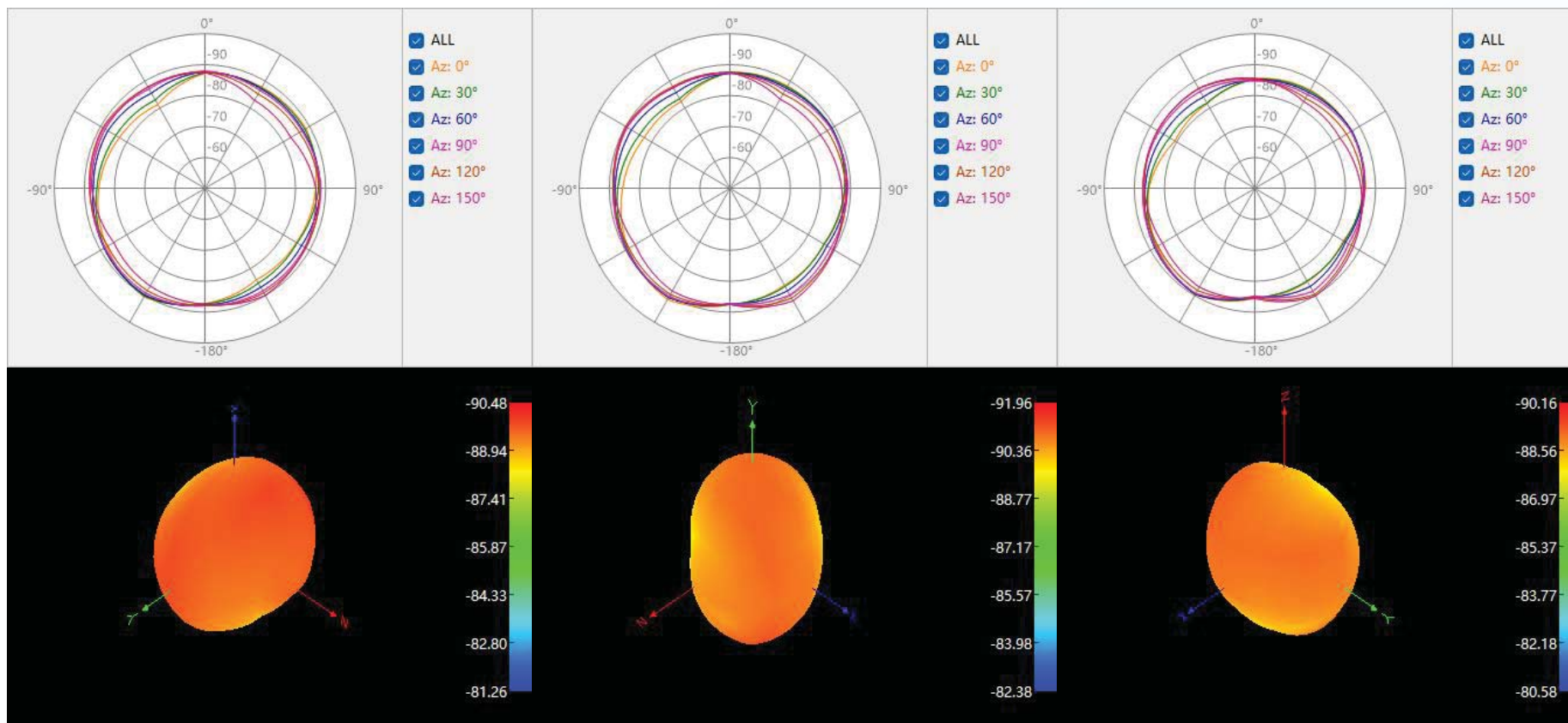
### 3. Test Result

### R-TRP



### 3. Test Result

### R-TIS

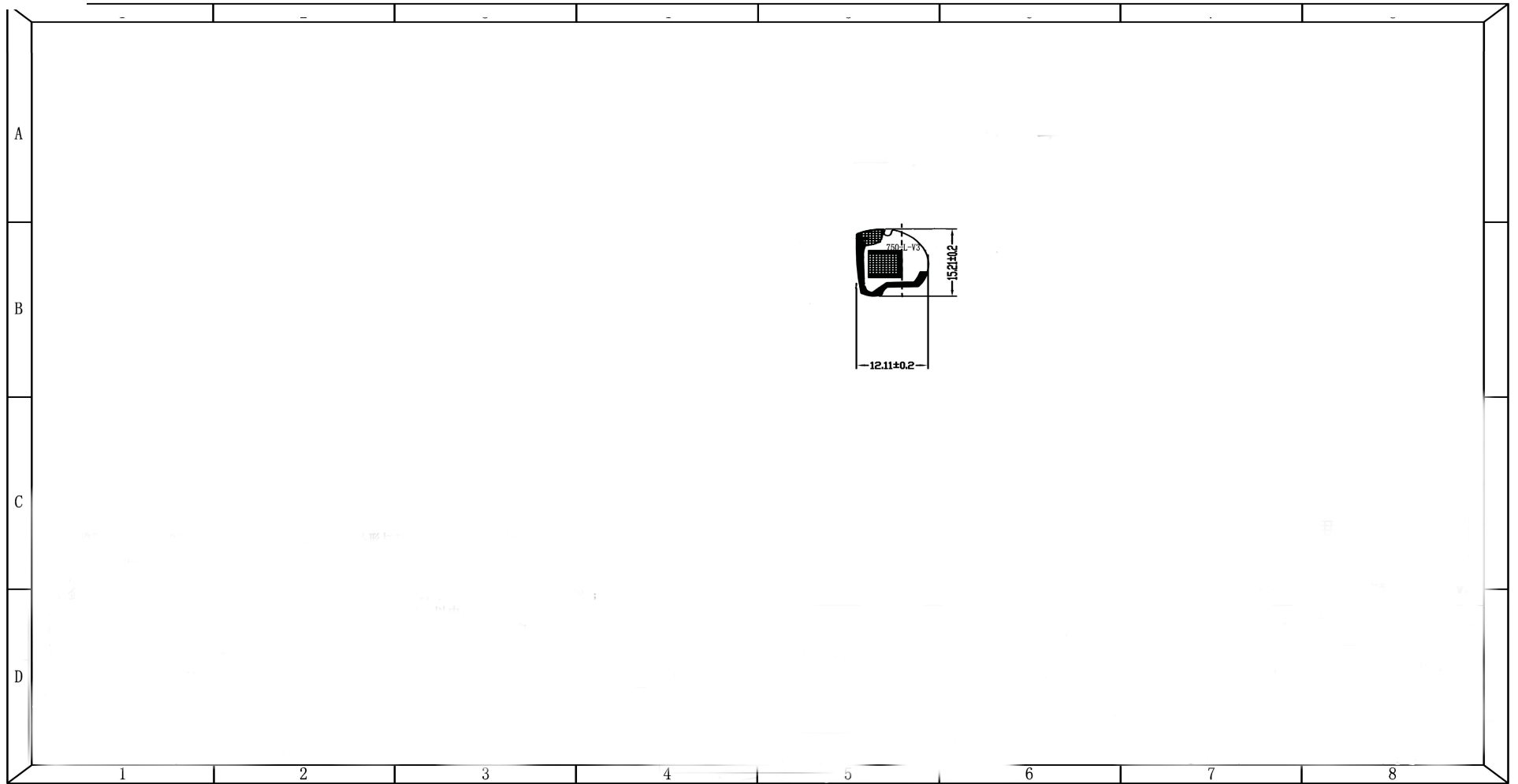






Shenzhen HeYixun Technology Co., Ltd.

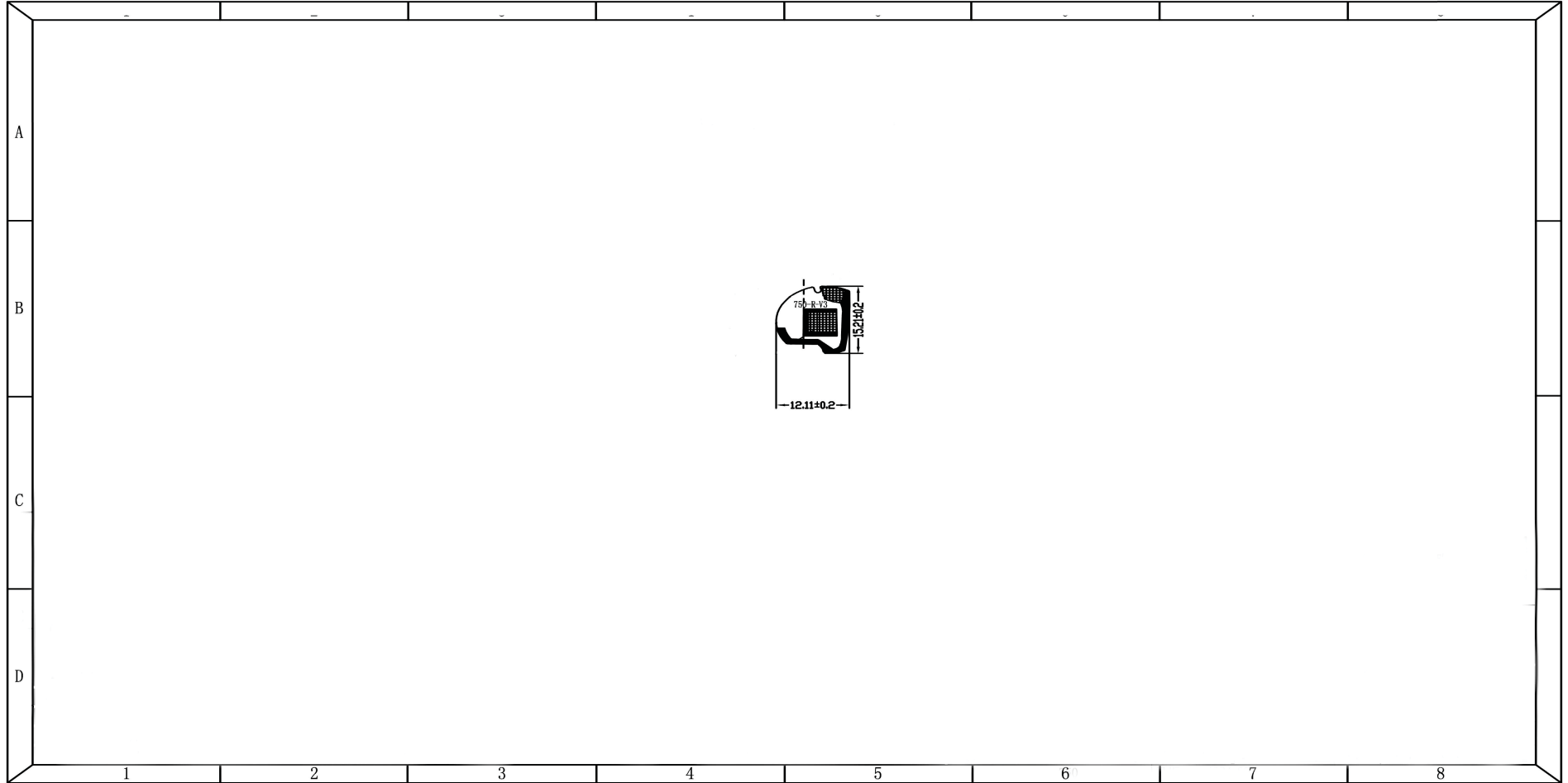
L





Shenzhen HeYixun Technology Co., Ltd.

R





Shenzhen HeYixun Technology Co., Ltd.

---

WORK REPORT

Thank you

