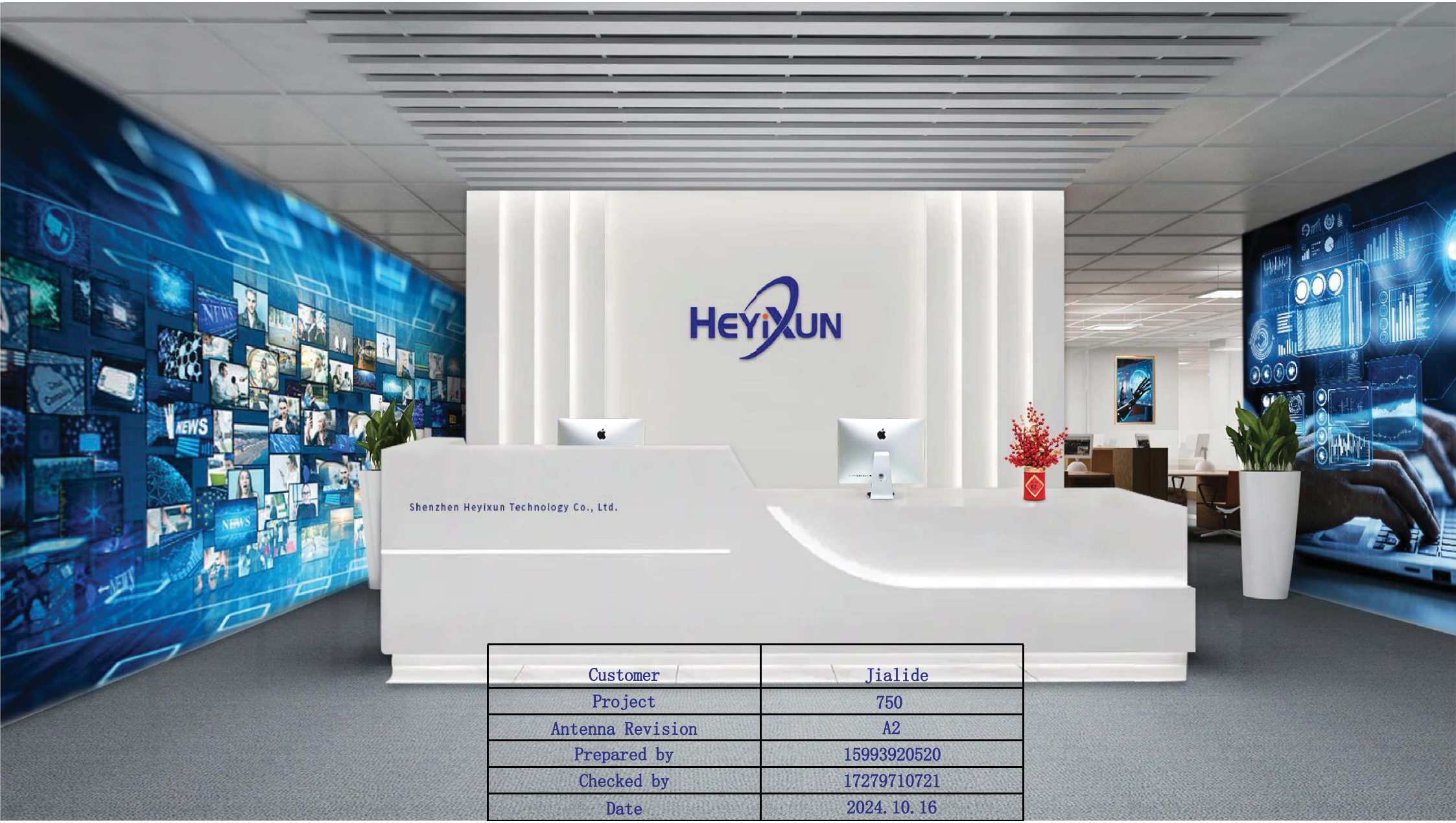
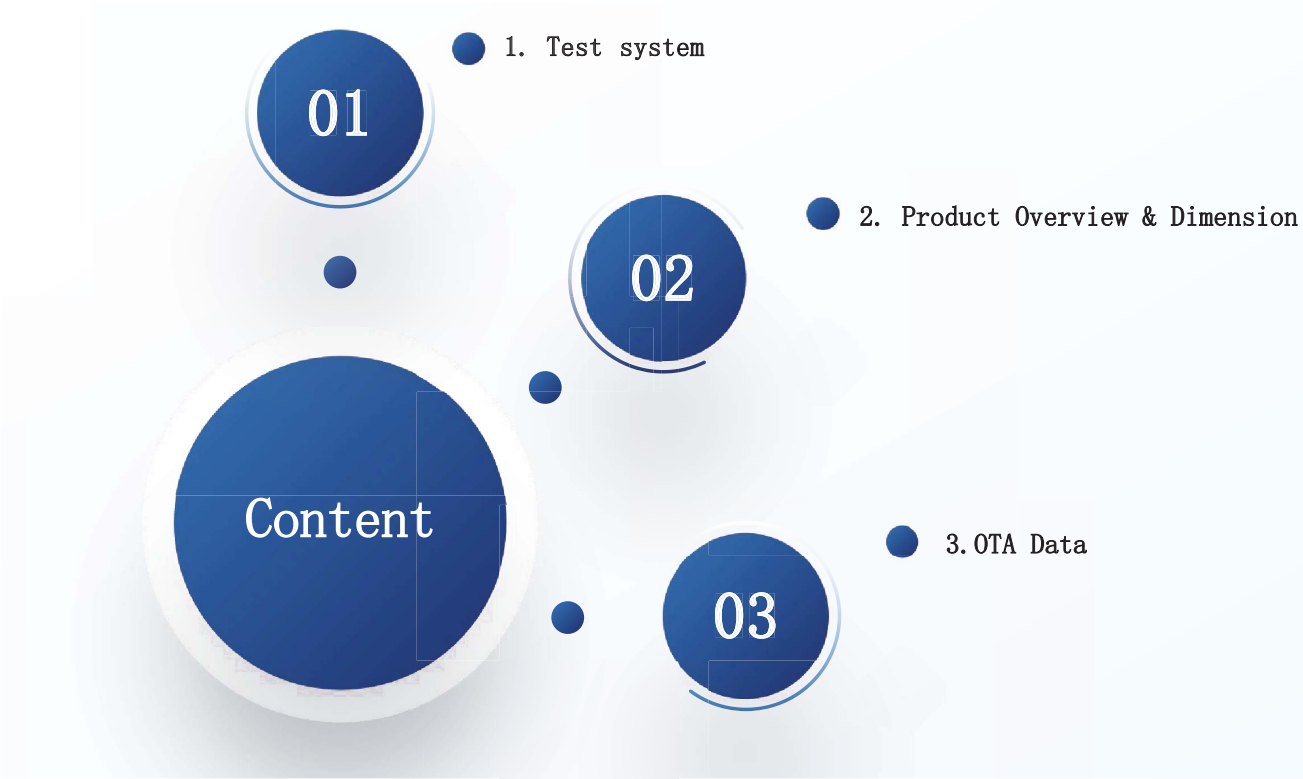


Customer	Jialide
Project	750
Antenna Revision	A2
Prepared by	15993920520
Checked by	17279710721
Date	2024.10.16

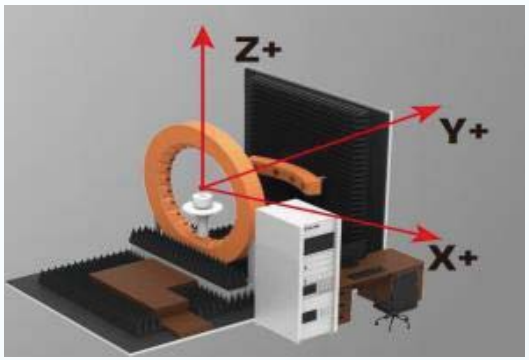
Purpose

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.

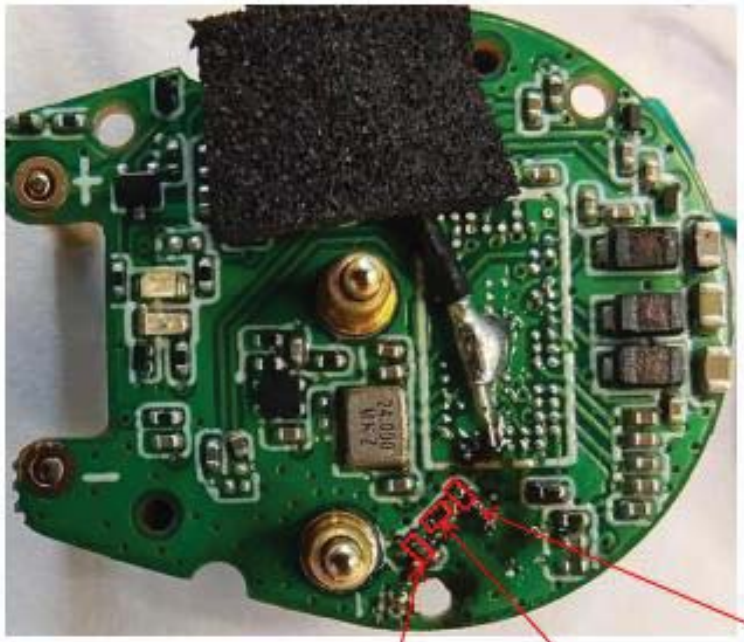


1.TestSystem

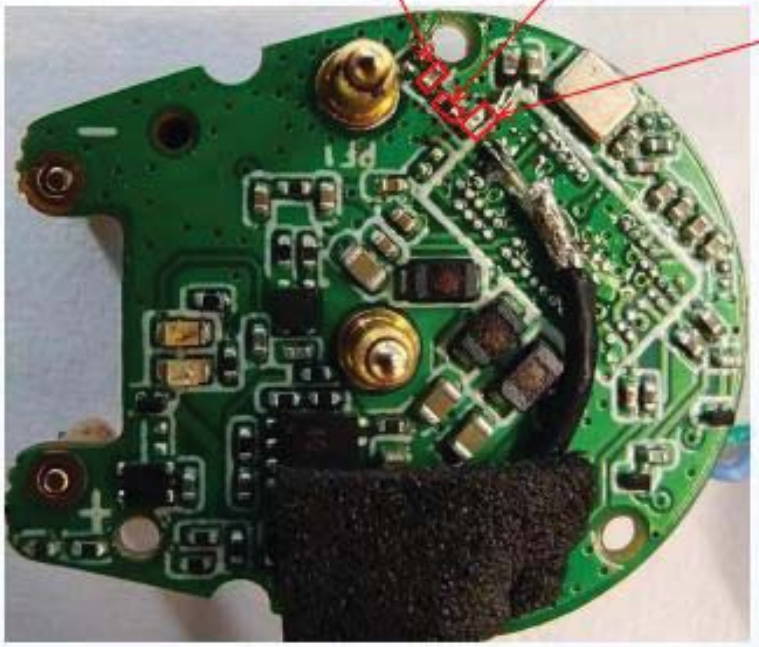
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



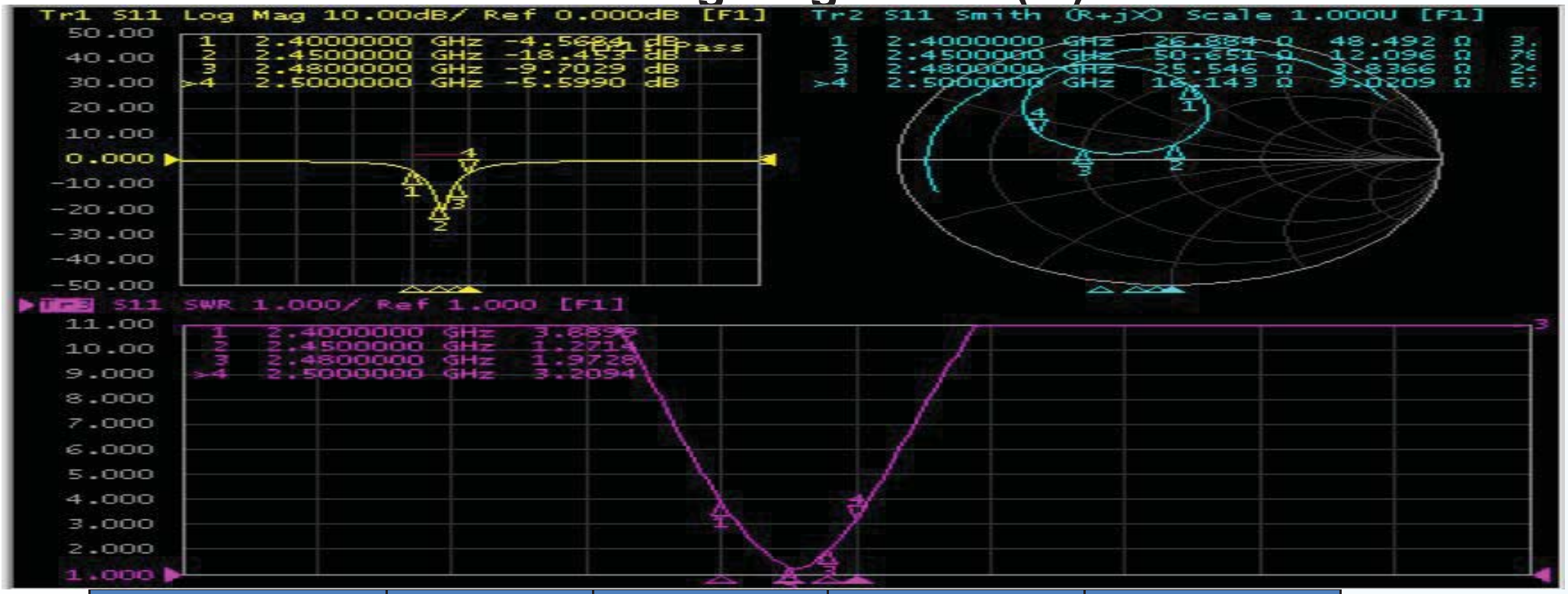
L



R



2.Test Result VSWR&Log Mag&Smith(Ω) L



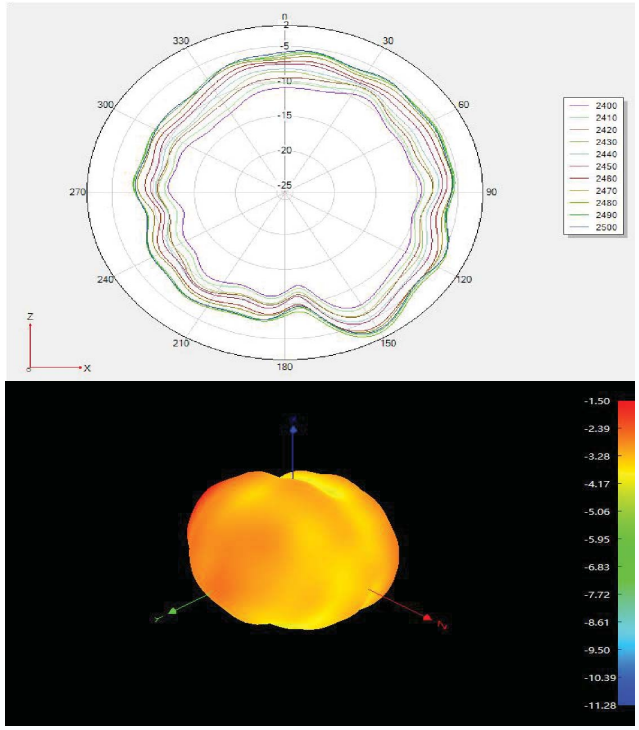
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-4.56	-18.45	-9.70	-5.59
Smith(Ω)	26.88	50.65	25.54	16.14
VSWR	3.88	1.27	1.97	3.20

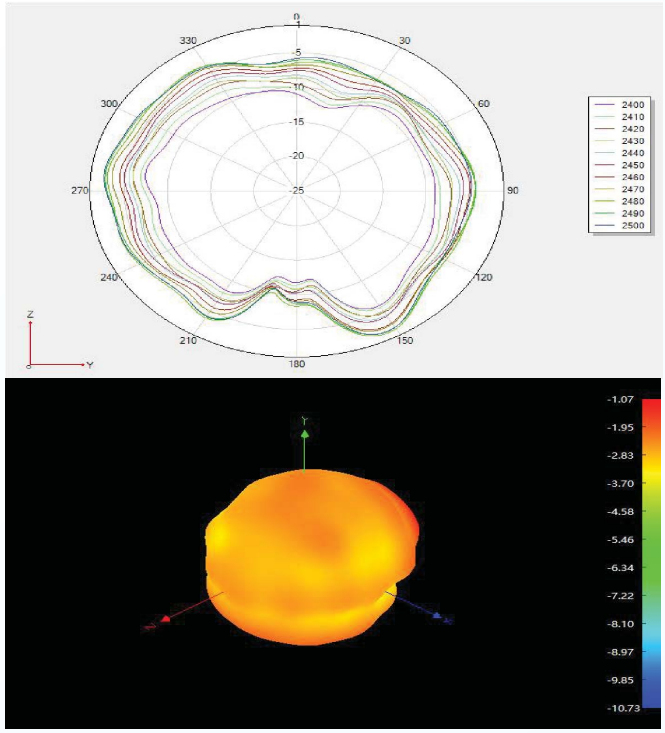
3.Test Result

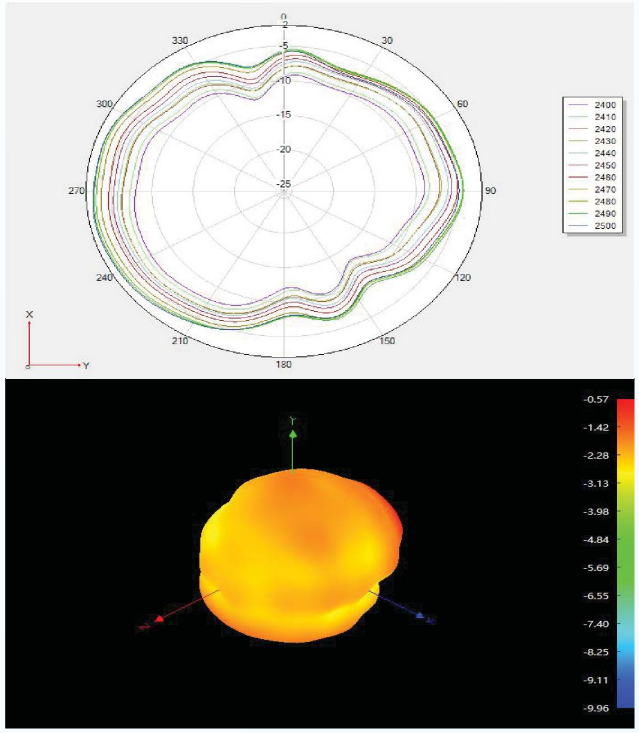
Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	23.76	-1.50
2410	22.62	-2.77
2420	24.14	-2.97
2430	24.33	-2.91
2440	26.75	-1.12
2450	26.82	-2.74
2460	28.32	-0.57
2470	27.64	-1.27
2480	25.58	-2.57
2490	24.04	-2.12
2500	25.12	-1.07

3.Test Result

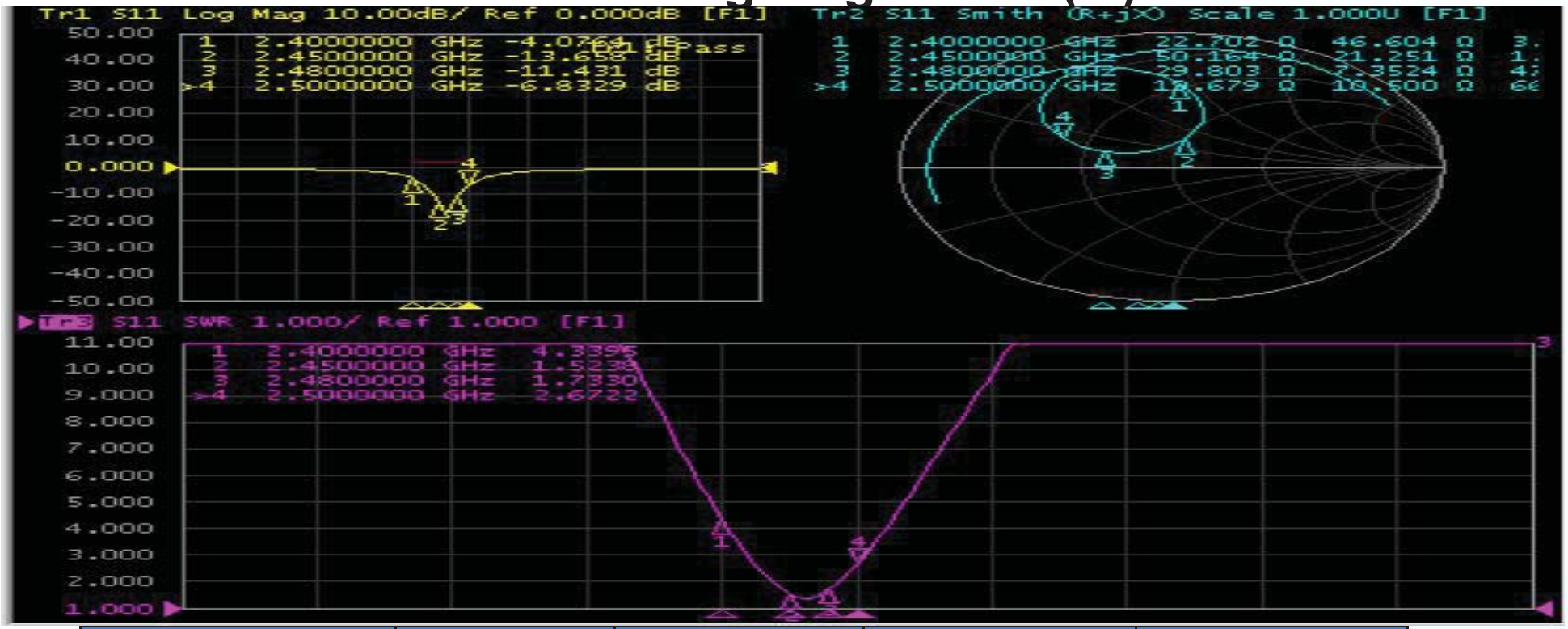
3.1 2D Pattern——BT ANT







2.Test Result VSWR&Log Mag&Smith(Ω) R



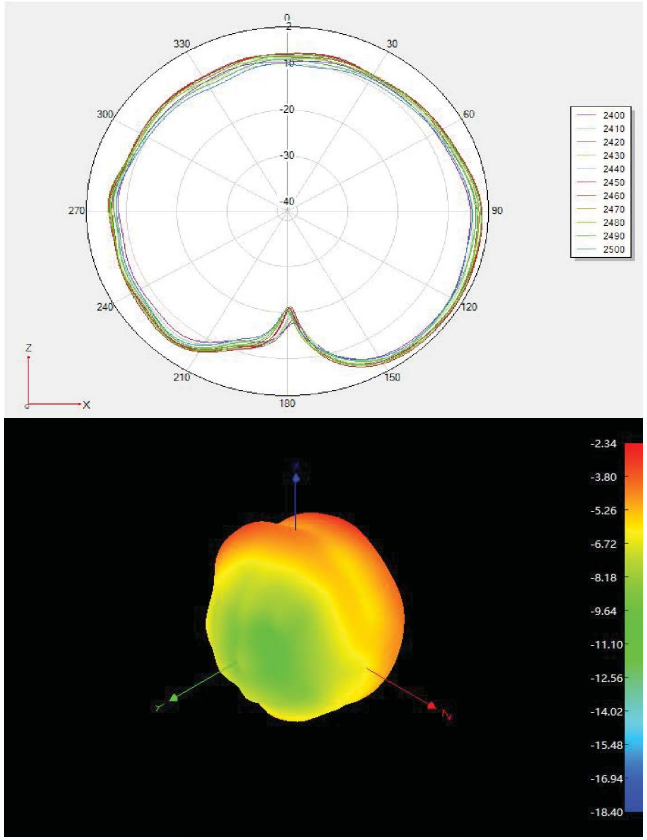
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-4.07	-13.65	-11.43	-6.83
Smith(Ω)	22.70	50.16	29.80	19.67
VSWR	4.33	1.52	1.73	2.67

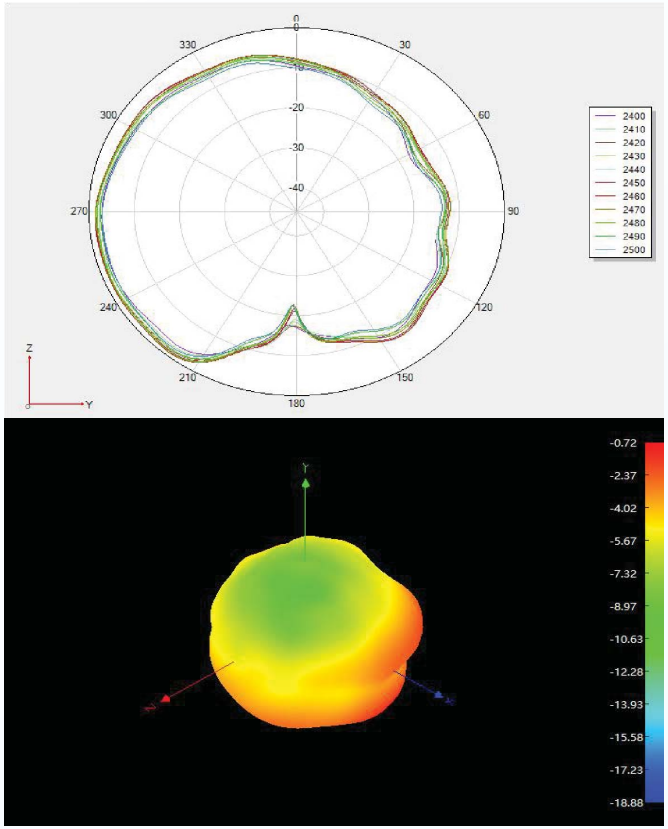
3.Test Result

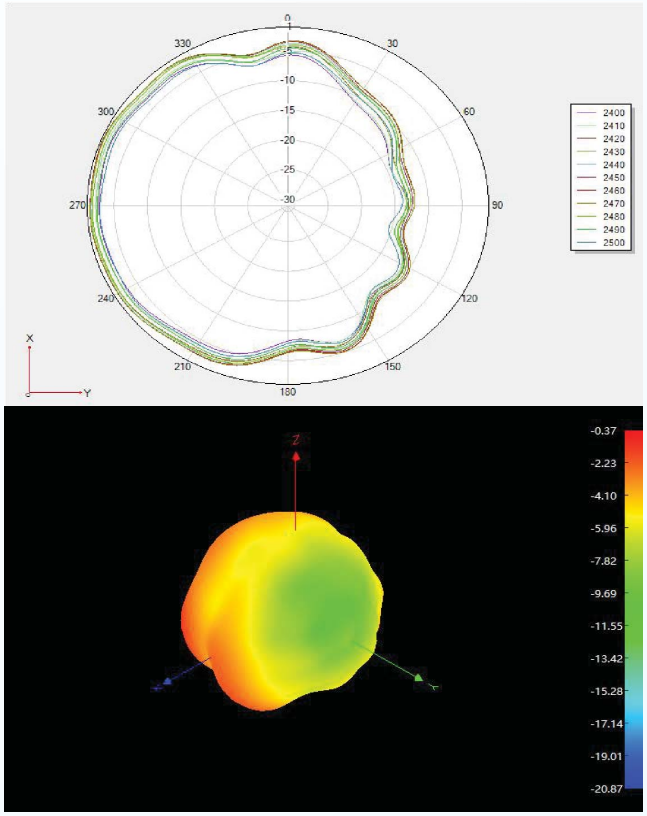
Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	24.68	-2.34
2410	23.71	-1.62
2420	24.32	-1.17
2430	25.73	-0.96
2440	27.23	-0.72
2450	26.41	-0.89
2460	28.55	-0.37
2470	27.11	-0.59
2480	26.79	-0.54
2490	25.49	-1.41
2500	24.63	-1.83

3.Test Result

3.1 2D Pattern——BT ANT





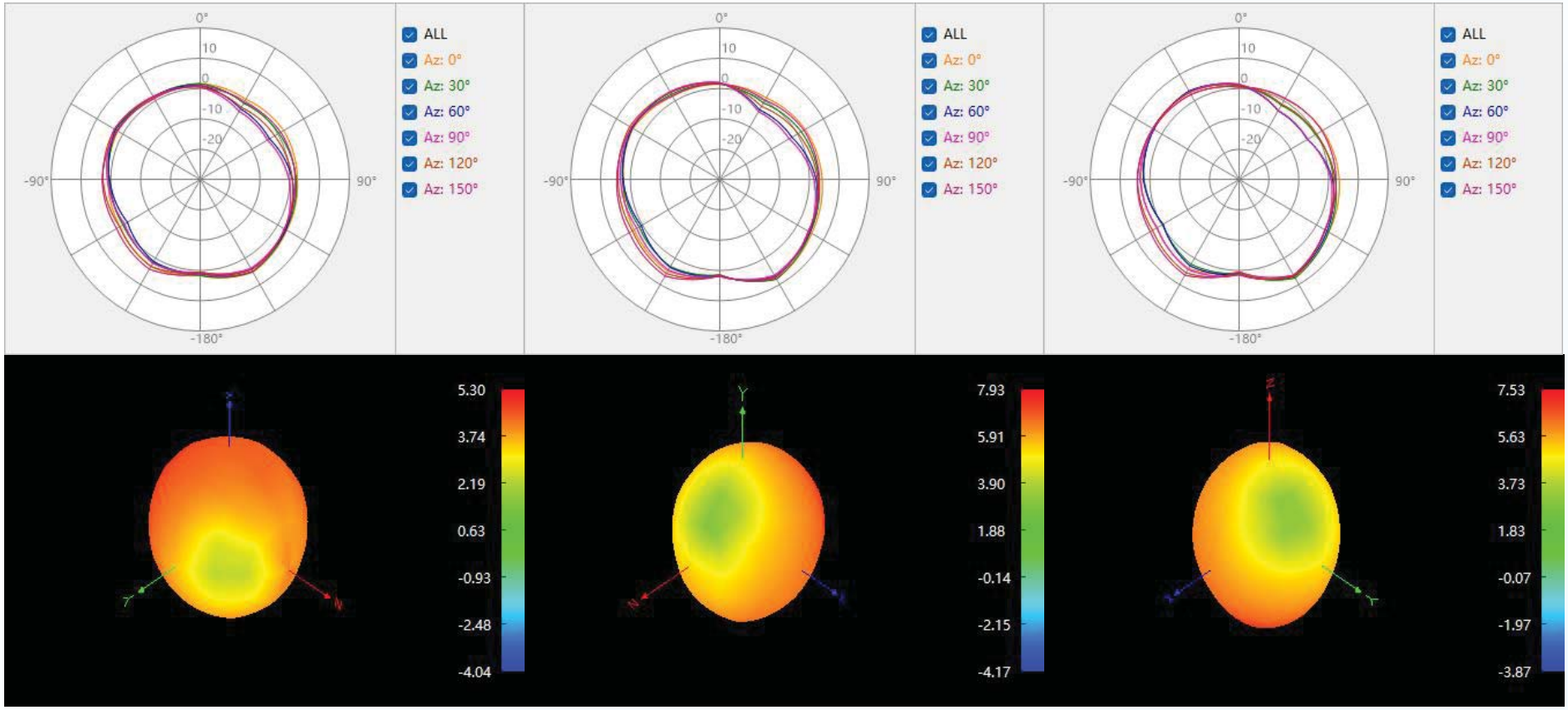


3.OTA Data

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

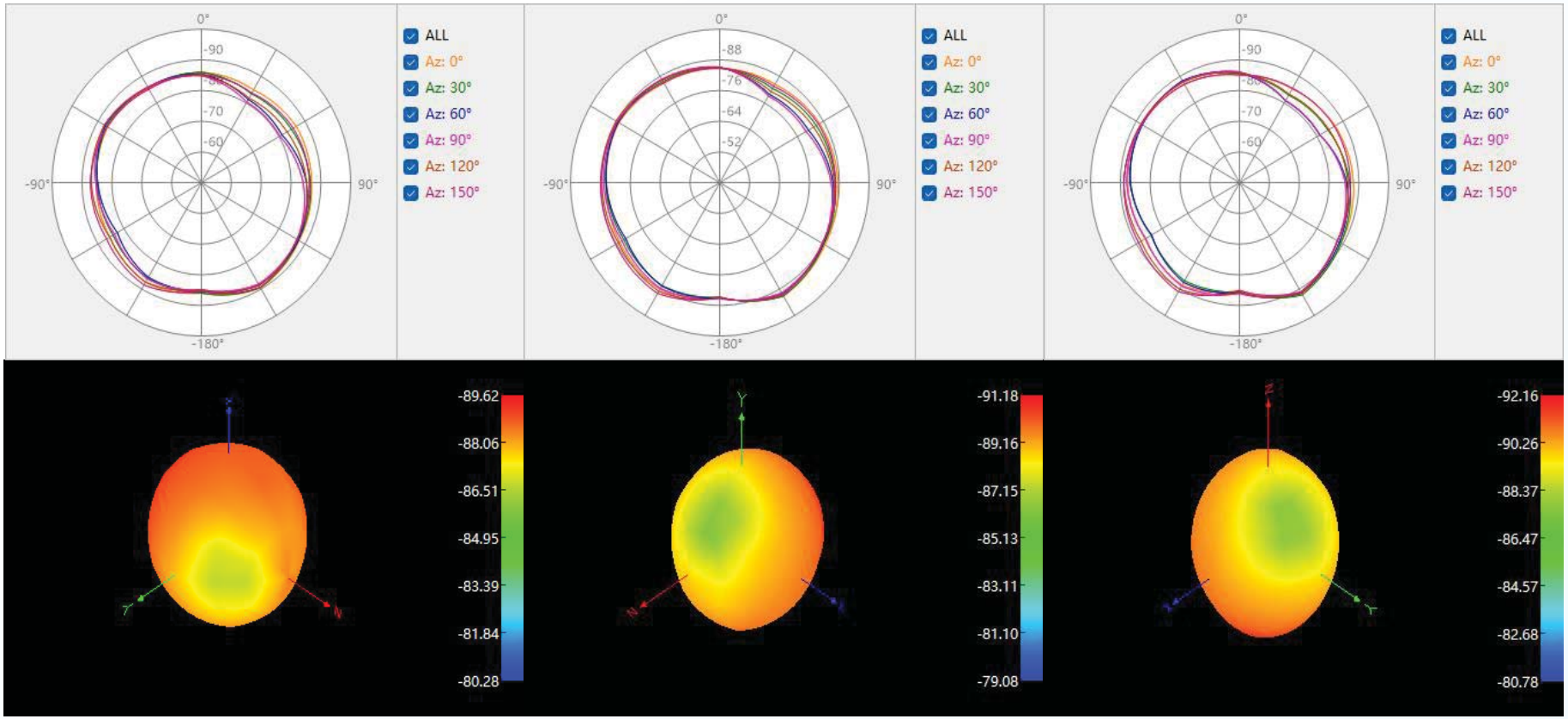
3.Test Result

L-TRP



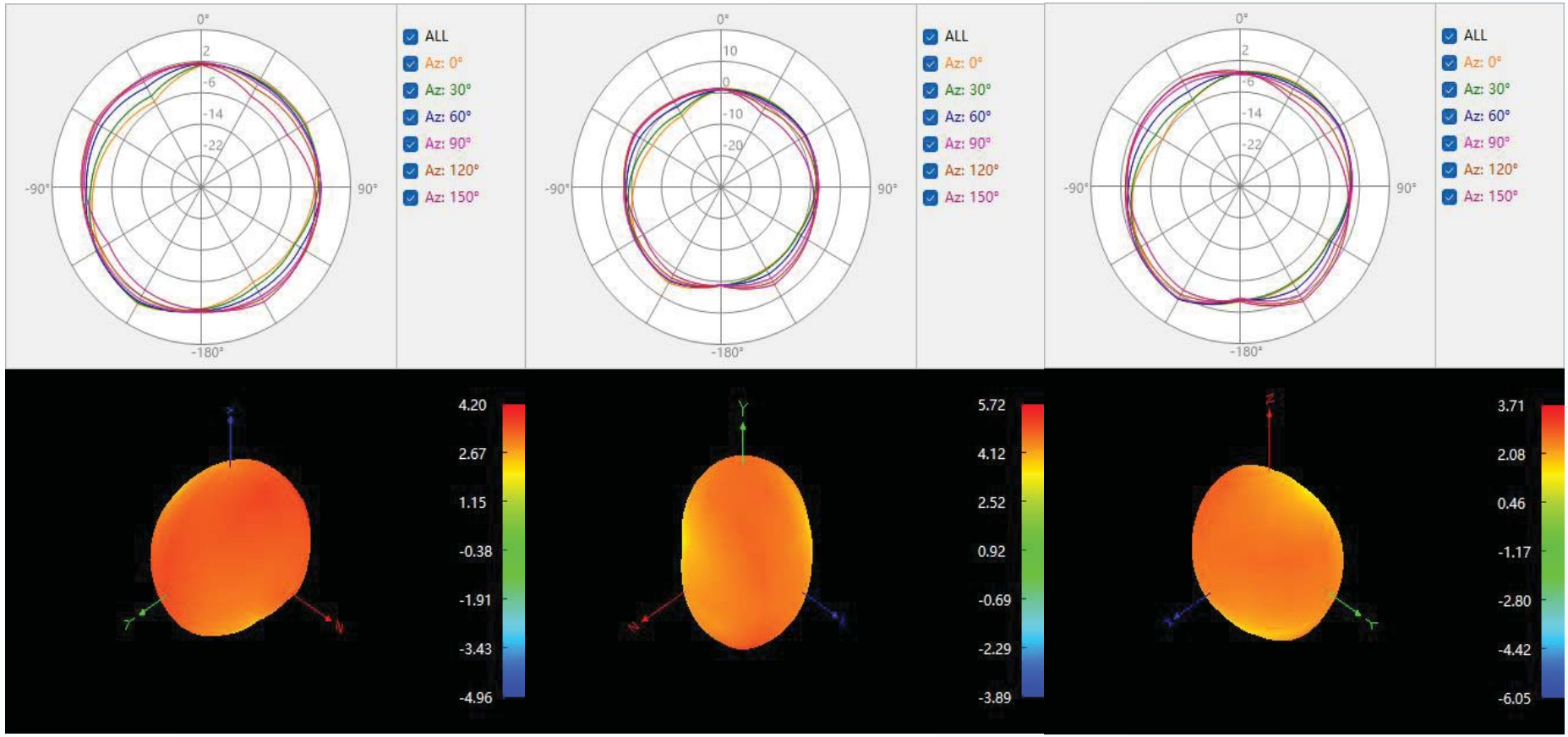
3.Test Result

L-TIS



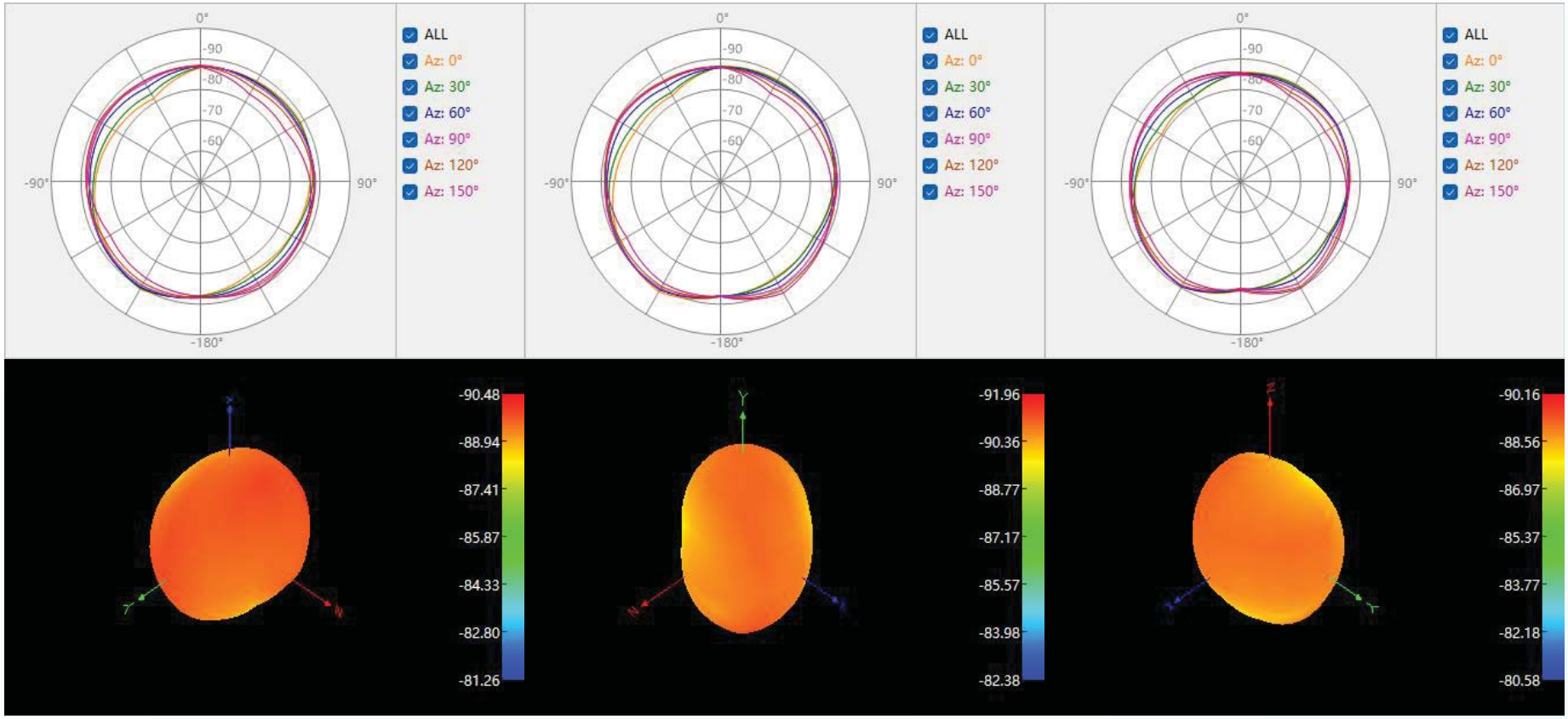
3.Test Result

R-TRP



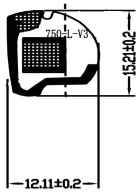
3.Test Result

R-TIS



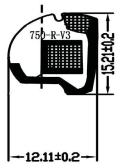
Shenzhen HeYixun Technology Co., Ltd.

L



Shenzhen HeYixun Technology Co., Ltd.

R



WORK REPORT

Thank you