Room 1903, Building 2, Jiufang Plaza, Tiezai Road, Gongle Community, Xixiang Street, Bao'an District, Shenzhen,China

Purpose

This report is to measure the performance of antenna for BS8 10Z4J The antenna operating frequency at 2400-2500MHz All test data are showed as below.

Content

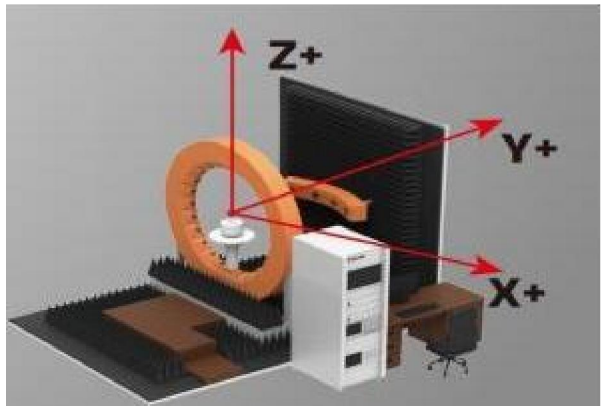
01 1. Test system

02 2. Product Overview & Dimension

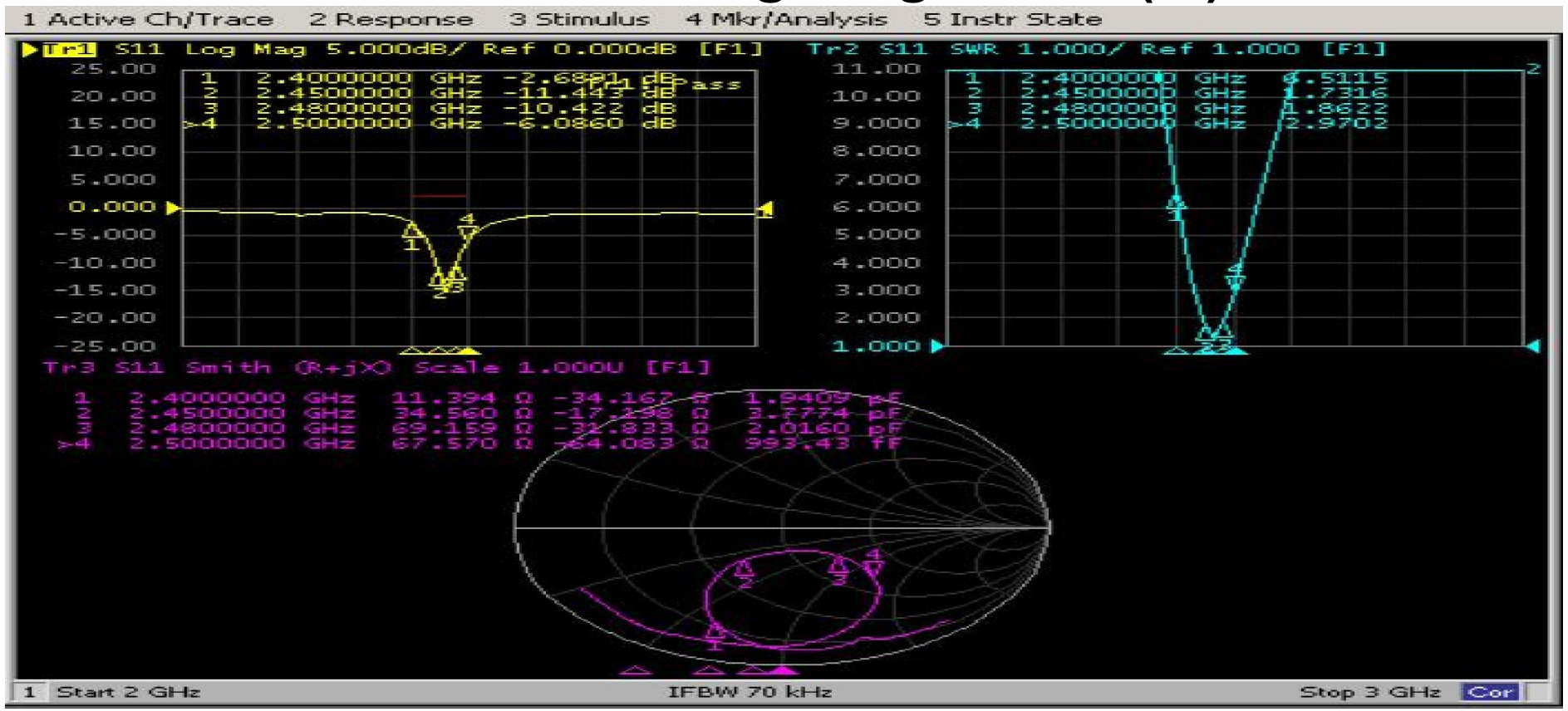
03 3.OTA Data

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



2. Test Result VSWR&Log Mag&Smith(Ω) L



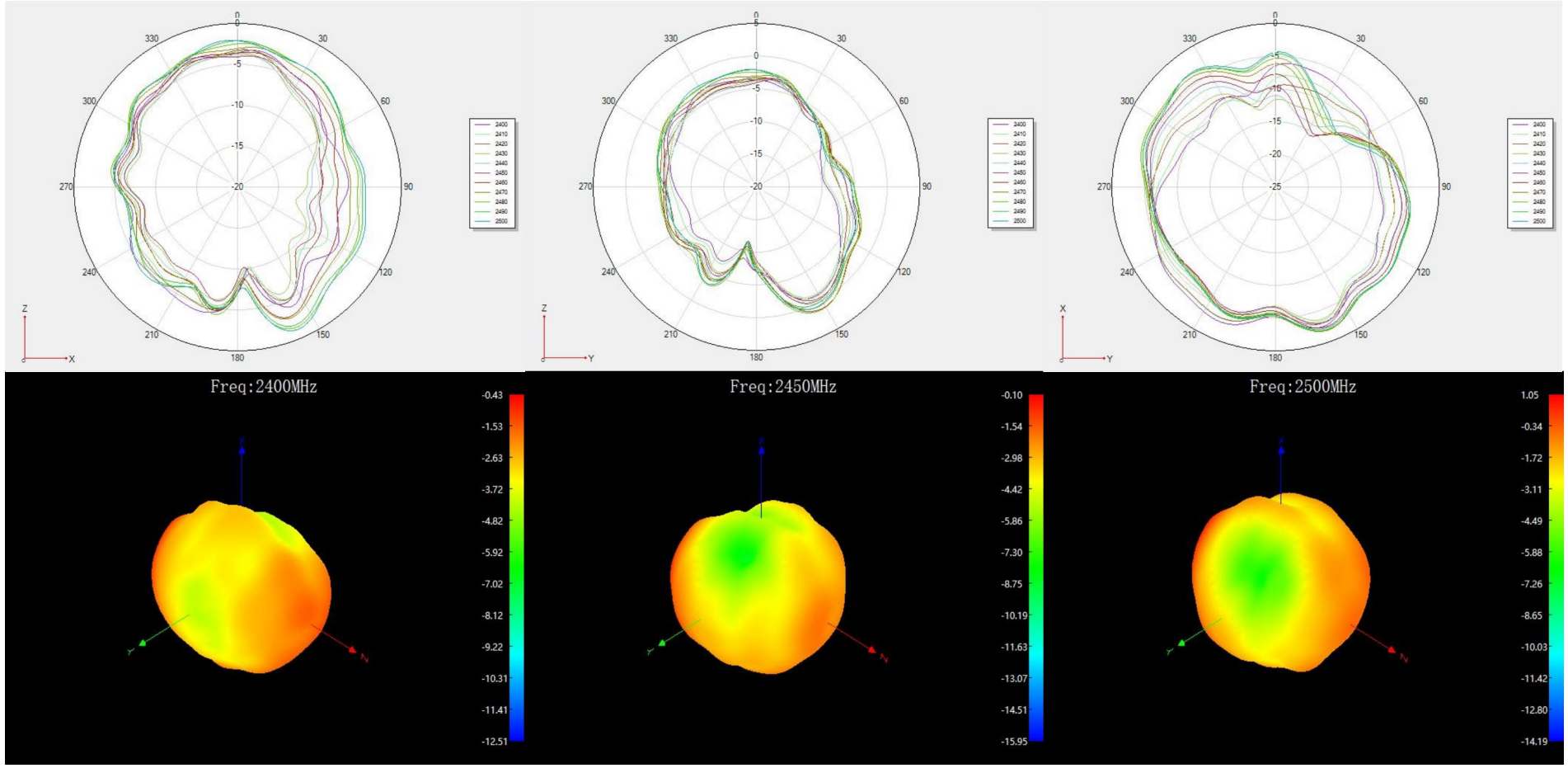
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-2.68	-11.44	-10.42	-6.08
Smith(Ω)	11.39	34.56	69.15	67.57
VSWR	6.51	1.73	1.86	2.97

3. Test Result

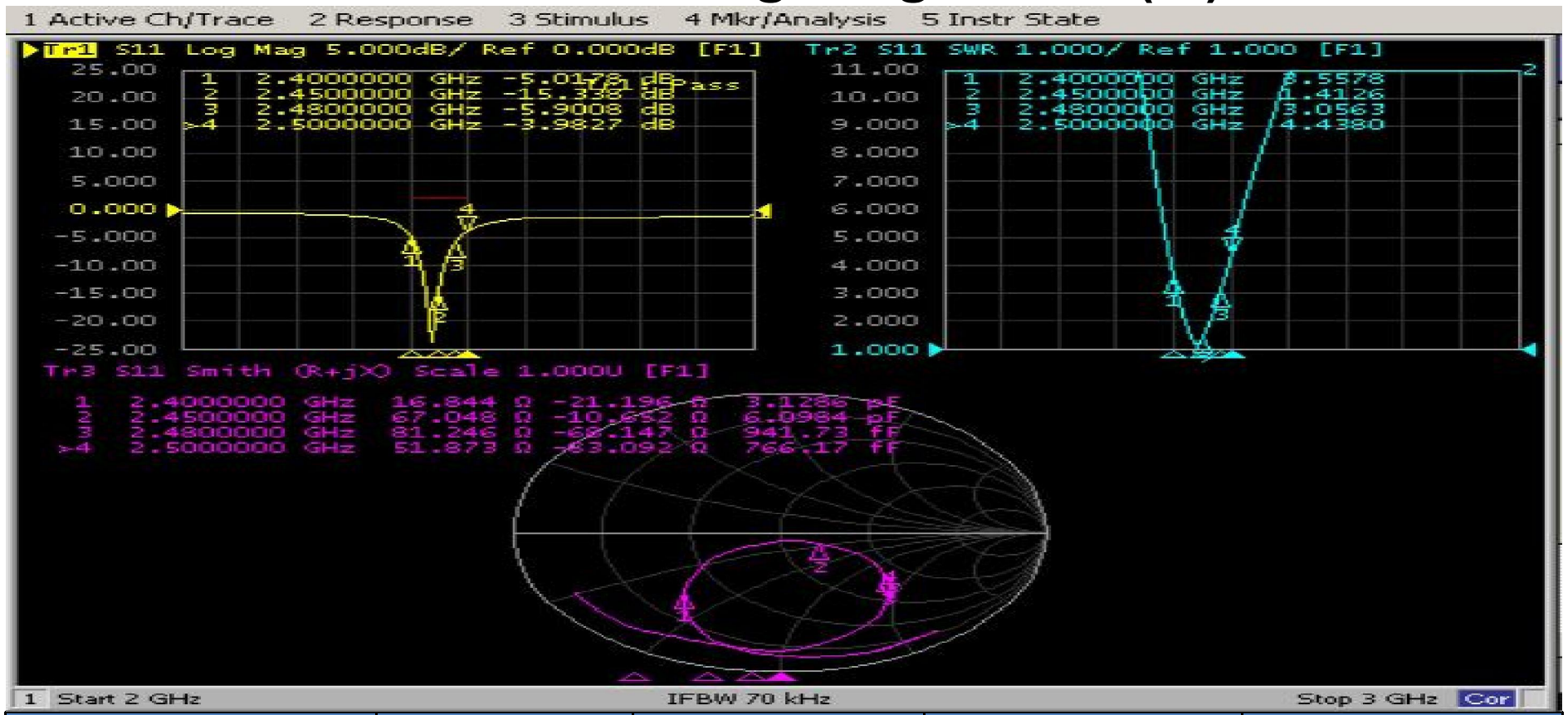
Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	17.01	-0.43
2410	17.2	-2.06
2420	18.97	-2.43
2430	18.11	-1.79
2440	19.14	-1.28
2450	19.84	-0.10
2460	18.83	-1.43
2470	17.76	-1.03
2480	16.05	-1.77
2490	16.76	-2.51
2500	15.35	1.05

3. Test Result

3.1 2D Pattern——BTANT



2. Test Result VSWR&Log Mag&Smith(Ω) R



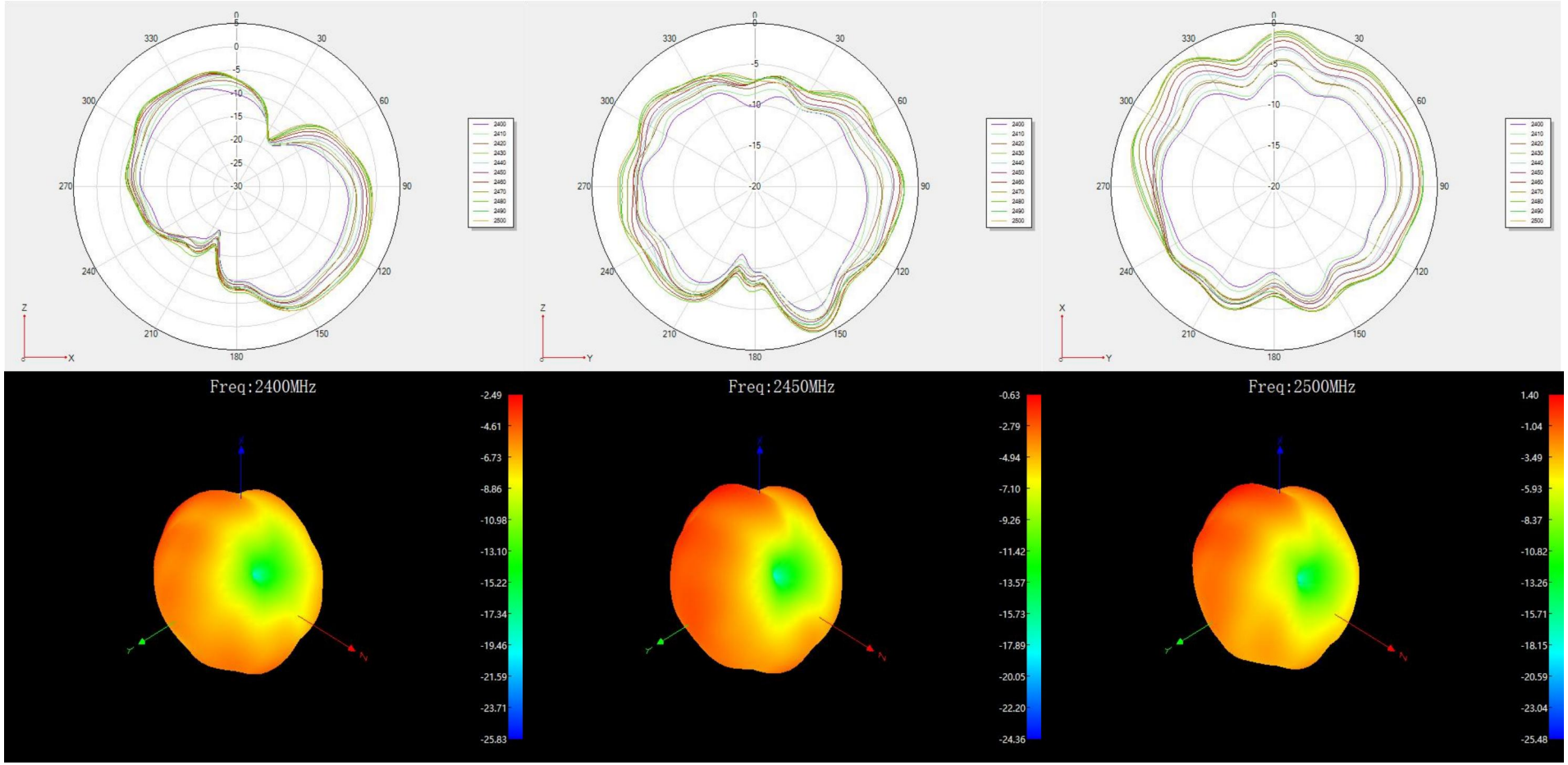
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-5.01	-15.33	-5.9	-3.98
Smith(Ω)	16.84	67.04	81.24	51.87
VSWR	3.55	1.41	3.05	4.43

3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	17.13	-2.49
2410	17.77	-2.34
2420	18.9	-1.25
2430	18.37	-1.44
2440	18.58	-1.35
2450	18.75	-0.63
2460	17.92	-1.86
2470	17.67	-1.48
2480	16.44	-2.46
2490	16.54	-2.78
2500	16.04	1.40

3. Test Result

3.1 2D Pattern——BTANT



3.OTA Data

自由数据

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
L	0	3.47	-87.65
	39	2.51	-86.7
	78	2.43	-86.04
R	0	3.75	-87.89
	39	2.87	-86.67
	78	2.11	-86.1

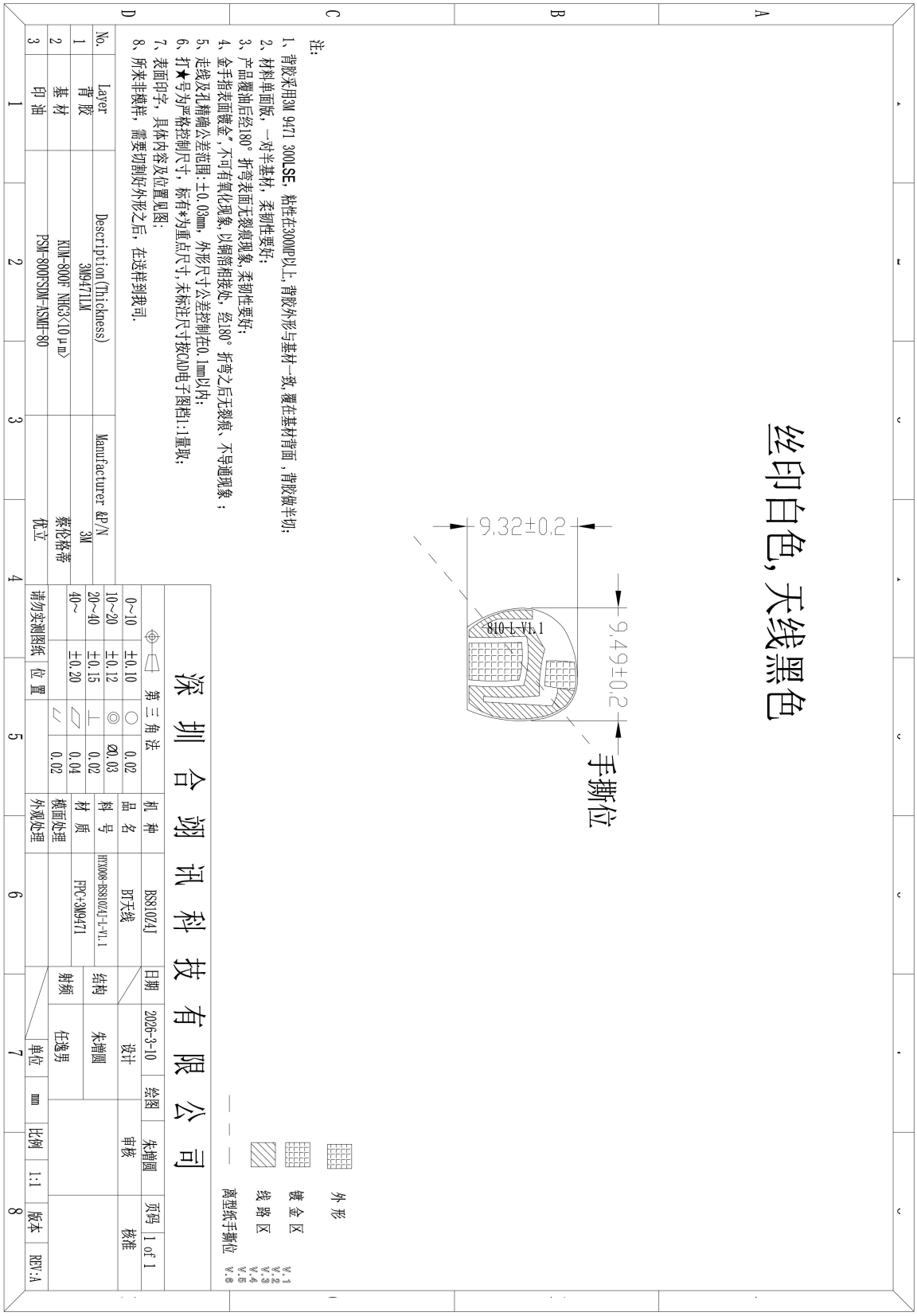
3.OTA Data

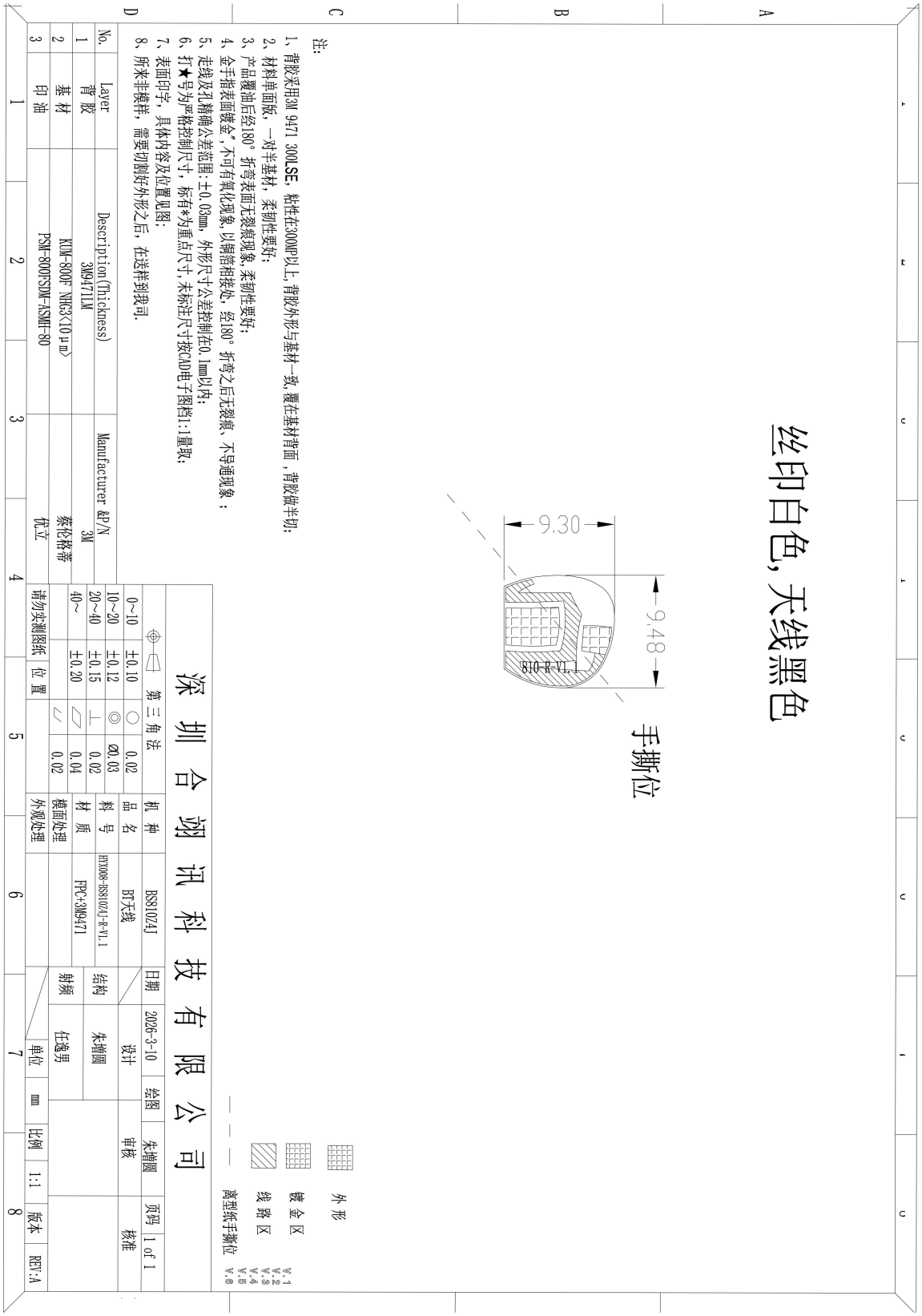
头模数据

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
L	0	0.18	-84.22
	39	-0.13	-83.5
	78	-0.44	-83.03
R	0	0.39	-84.66
	39	-0.08	-83.61
	78	-0.36	-83.44

产品图纸或实物图片 L

Drawing or Product Image



产品图纸或实物图片 R

Drawing or Product Image