



YONG CHENG INTERNATIONAL(OTA)

B8调测报告

Antenna Test Report



◆ 日期 2025年11月17日



Test item	
1	Matching parameter
2	Network debugging antenna S parameters
3	Microwave darkroom test OTA active data
4	Measurement of antenna efficiency field pattern in microwave darkroom
5	measuring distance
6	Assembly item
7	summary of commissioning test

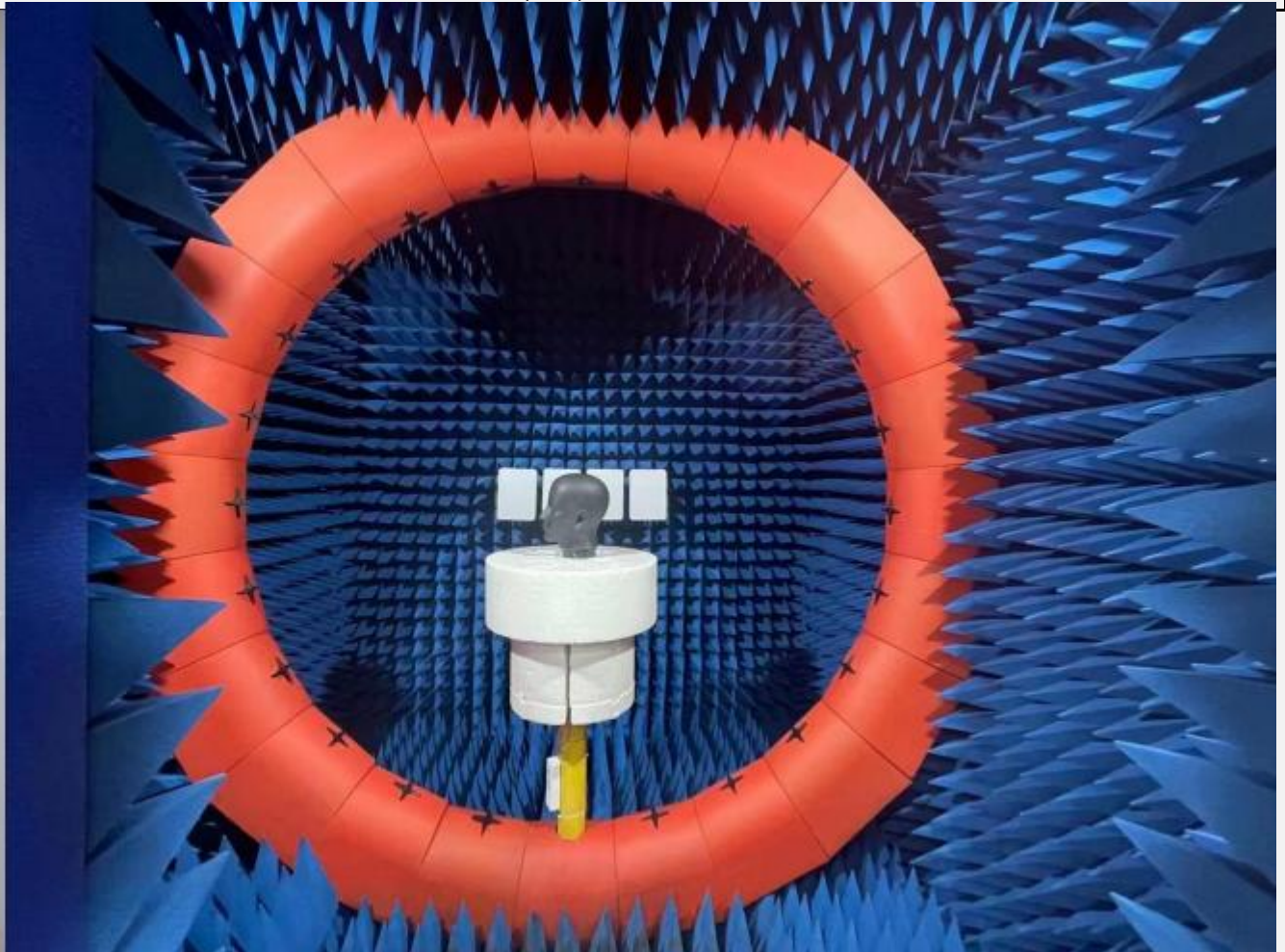
咏成國際科技有限公司RAINInternational Technology Co., Ltd. TEL:13530576606
Add: Room 707, Building F, Tongan Zhichuangyuan,xixiang street, Baoan District, Shenzhen.

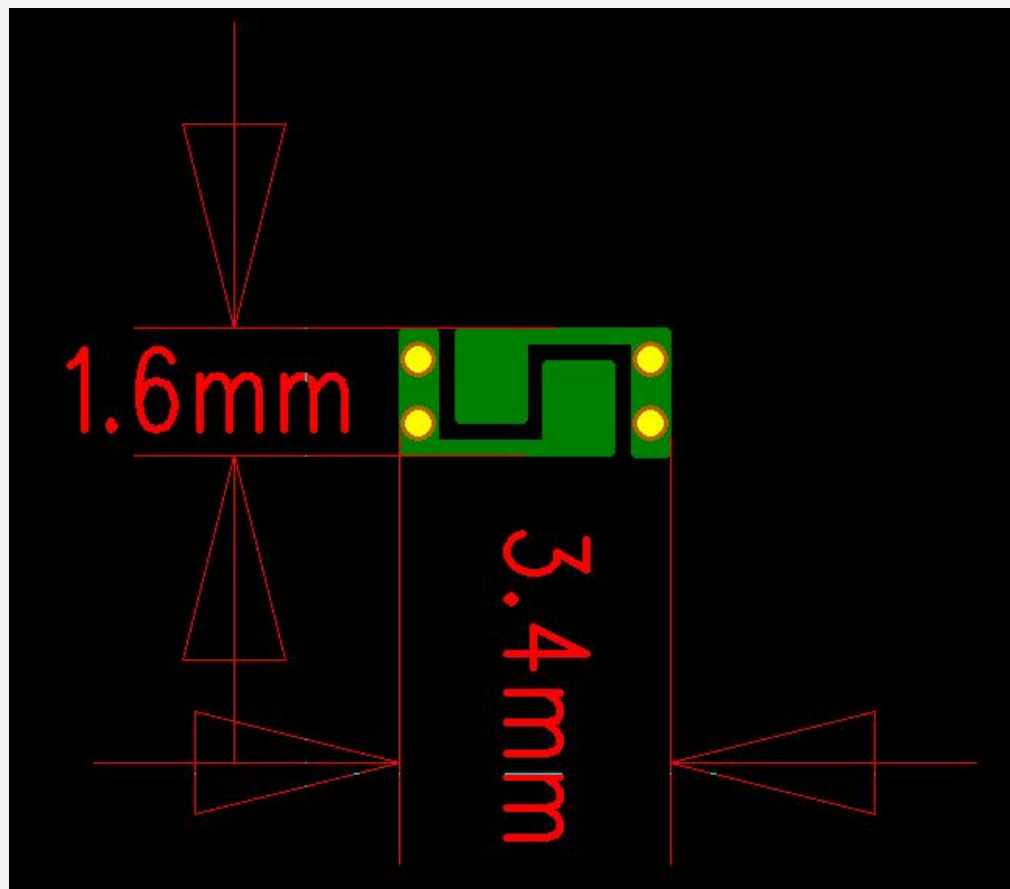


Customer	FKJ	Project name	B8
frequency band	2400MHZ-2500MHZ	engineer:	CK
Date	2025/11/17	phone:	13418844003

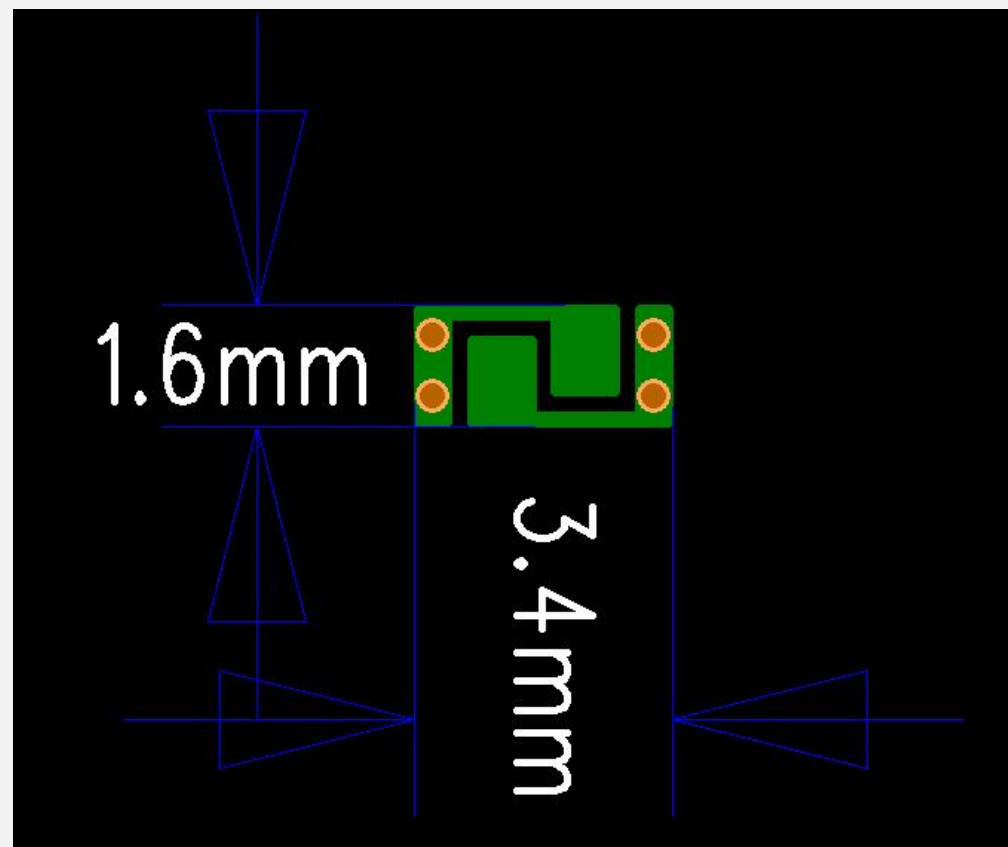
1.测试工具

矢量网络分析仪&综测仪	Agilent Technologies E5071B & R&S CMW500
暗室	Atenlab M3
测试工程师	CK
温度	25℃
湿度	65% (RH)



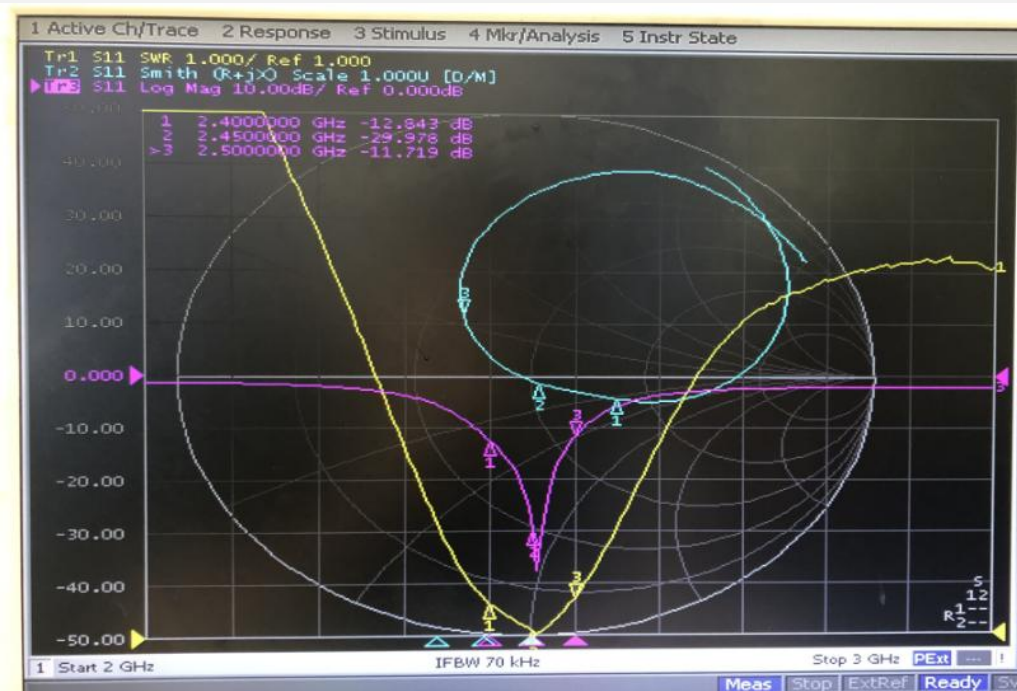


Antenna Placement



ANT: (咏成国际)

S11、SWR、smith chart:



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Antenna active test data

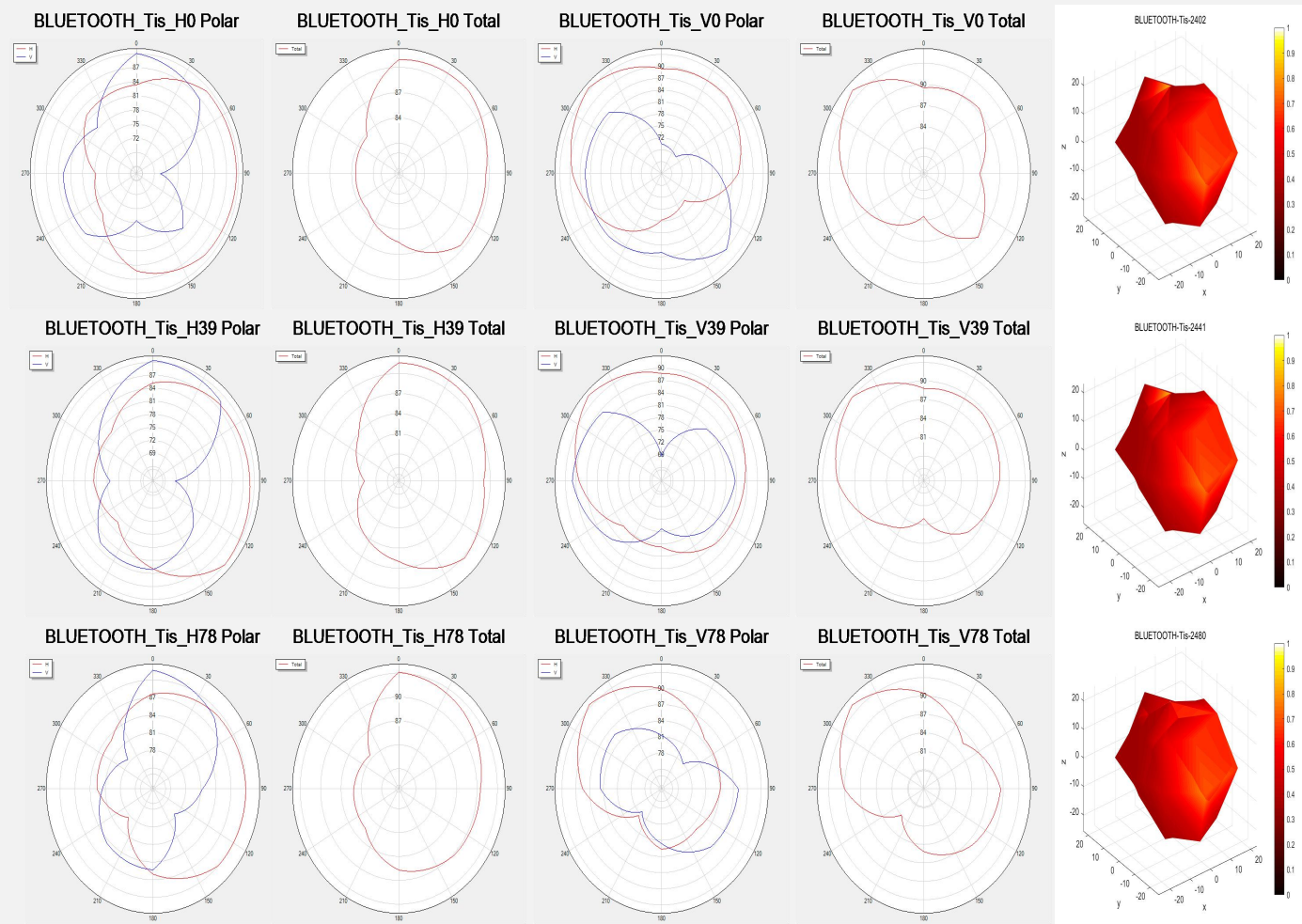
ANT EIRP&EIS parameter Summary (free field)

频段frequency band				BT 2.4G		
信道route				0	39	78
1# TRP (dBm)				1.62	1.53	1.52
1# TIS (dBm)				-81.14	-81.08	-81.58

ANT EIRP&EIS parameter Summary (phantom head)

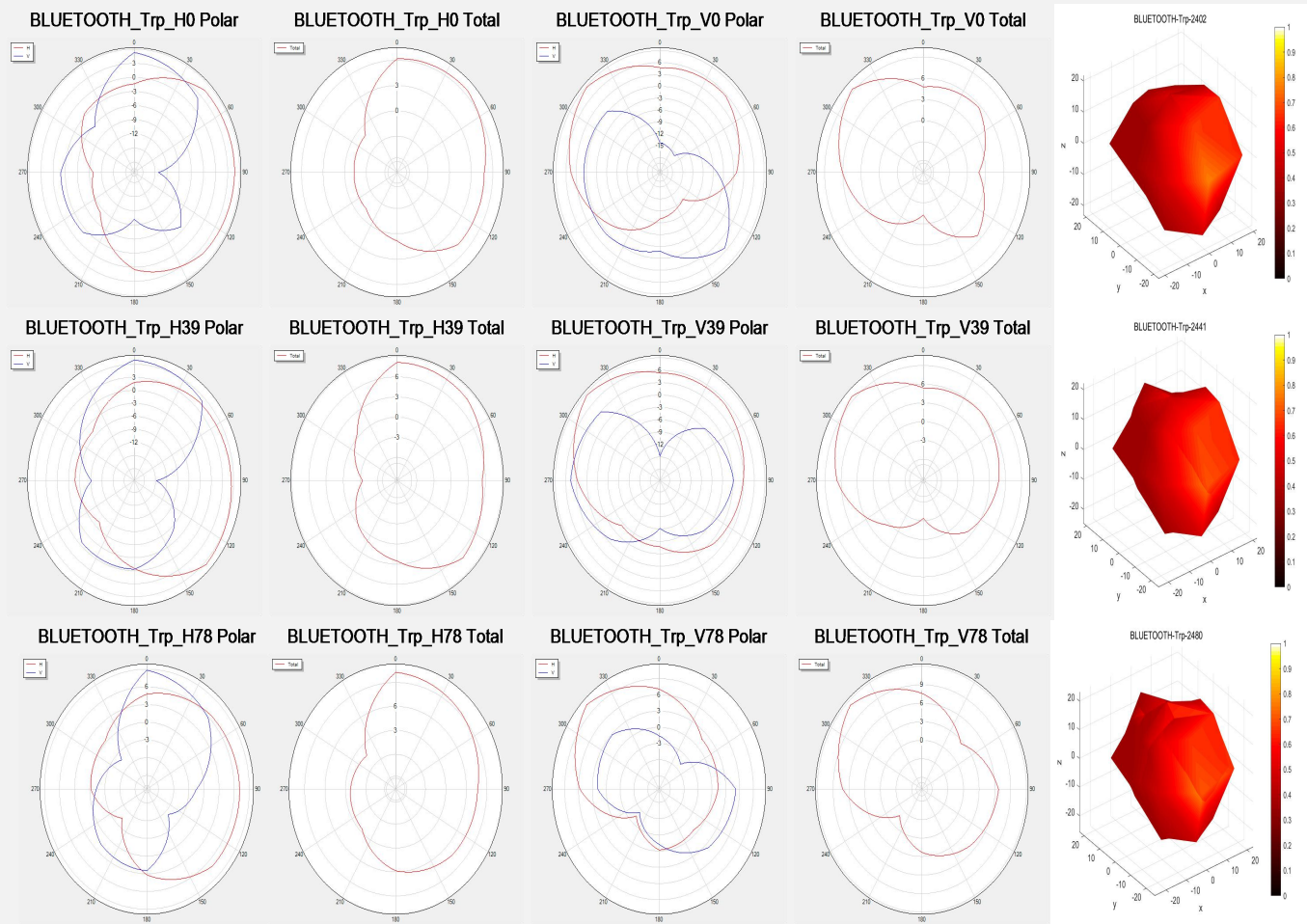
频段frequency band				BT 2.4G		
信道route				0	39	78
2# TRP (dBm)				1.24	1.83	1.41
2# TIS (dBm)				-77.32	-77.36	-77.16

TIS The antenna pattern of the free field





TRP The antenna pattern of the free field



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Antenna efficiency gain

天线效率与增益图

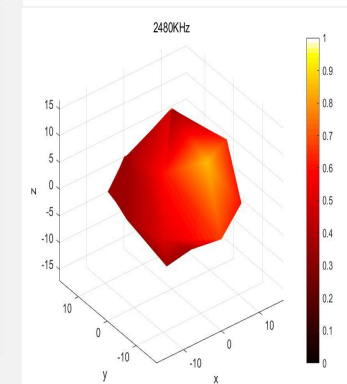
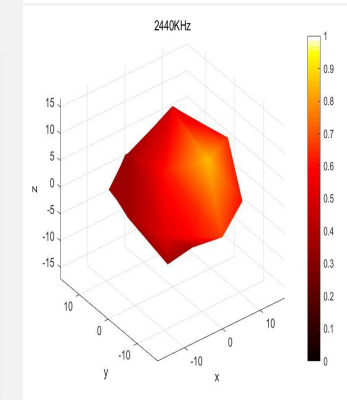
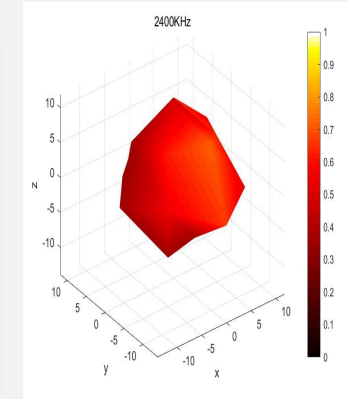
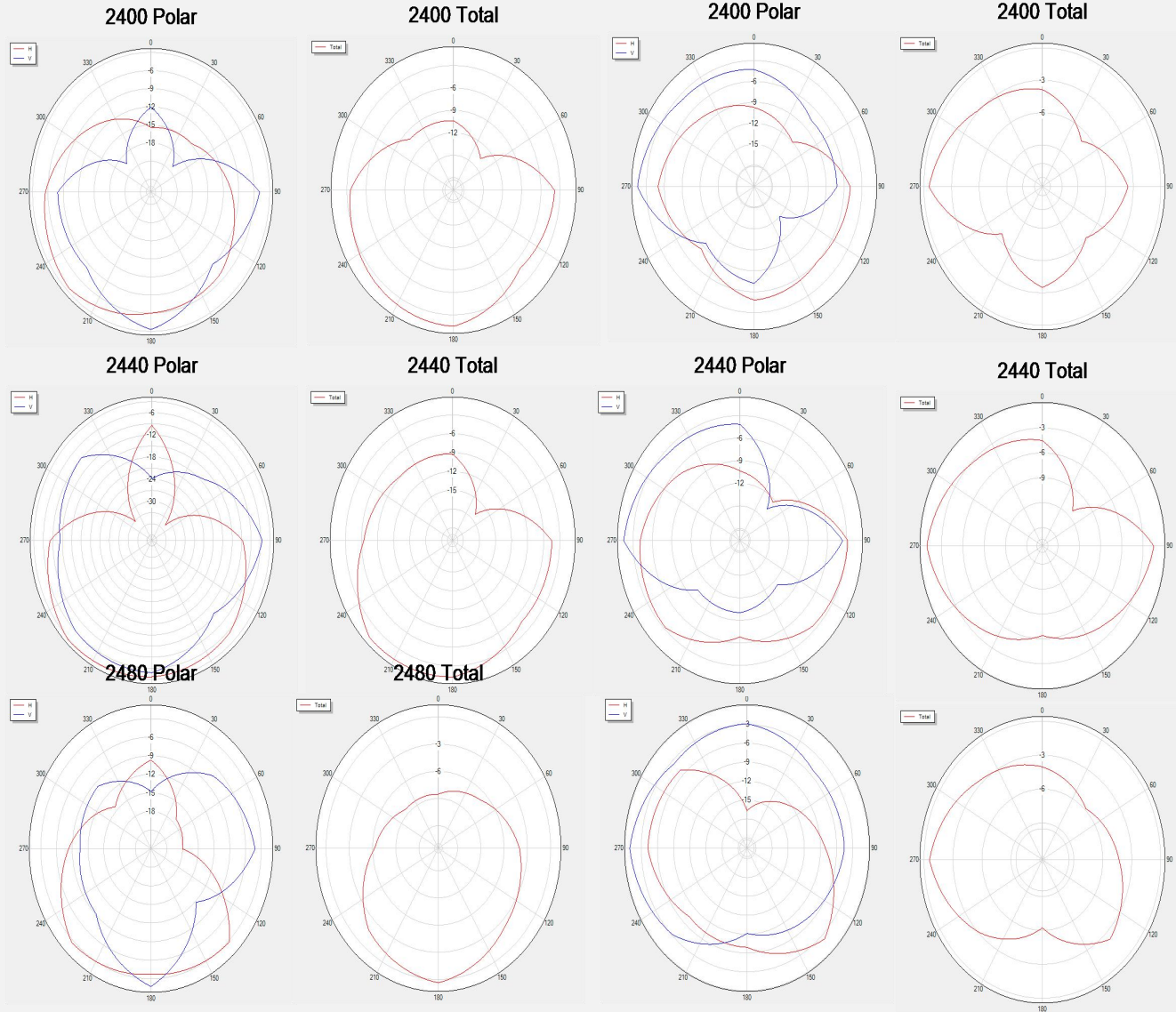


Frequency	Effic	Percen	Gain
2400	-4.72	33.7%	0.12
2440	-4.31	37.09%	1.61
2480	-3.49	44.75%	3.17

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Antenna radiation pattern 2400.00MHz/2440.00MHz/2480.00MHz



measuring distance

a. Environme

test project	Trying hard not to hear		Pocket test requirement		descr
B8			right front	OK	The iPhone5 was tested over 10+ meters in the park
	OK		front-left	OK	
			right rear	OK	
			left rear	OK	

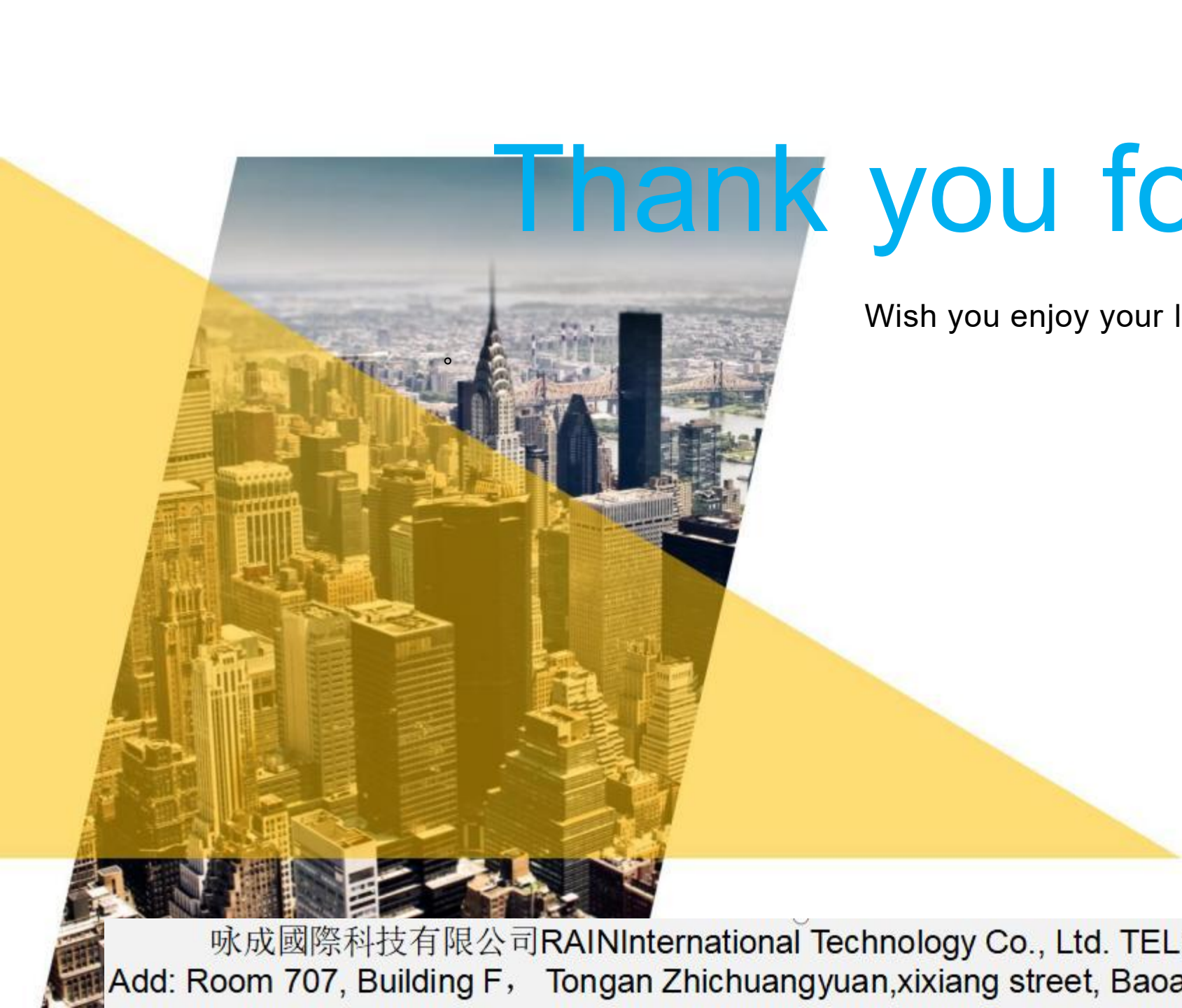
b. summarize

B8 machine actual test, OTA data test, basically distance matching, our park grass test effect is excellent

assembly method

Thank you for watching

Wish you enjoy your life

An aerial photograph of a dense city skyline, likely New York City, featuring numerous skyscrapers. A large, semi-transparent yellow triangle is overlaid on the left side of the image, pointing towards the center. The text 'Thank you for watching' is written in large blue letters across the top right, and 'Wish you enjoy your life' is written in smaller black letters below it.

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