



YONG CHENG INTERNATIONAL(OTA)

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X7-AC7006F



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



Customer	QY	Project name	X7-AC7006F
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frequency
band

2400MHZ-2500MHZ

engineer:

CK

Date

2024/04/16

phone:

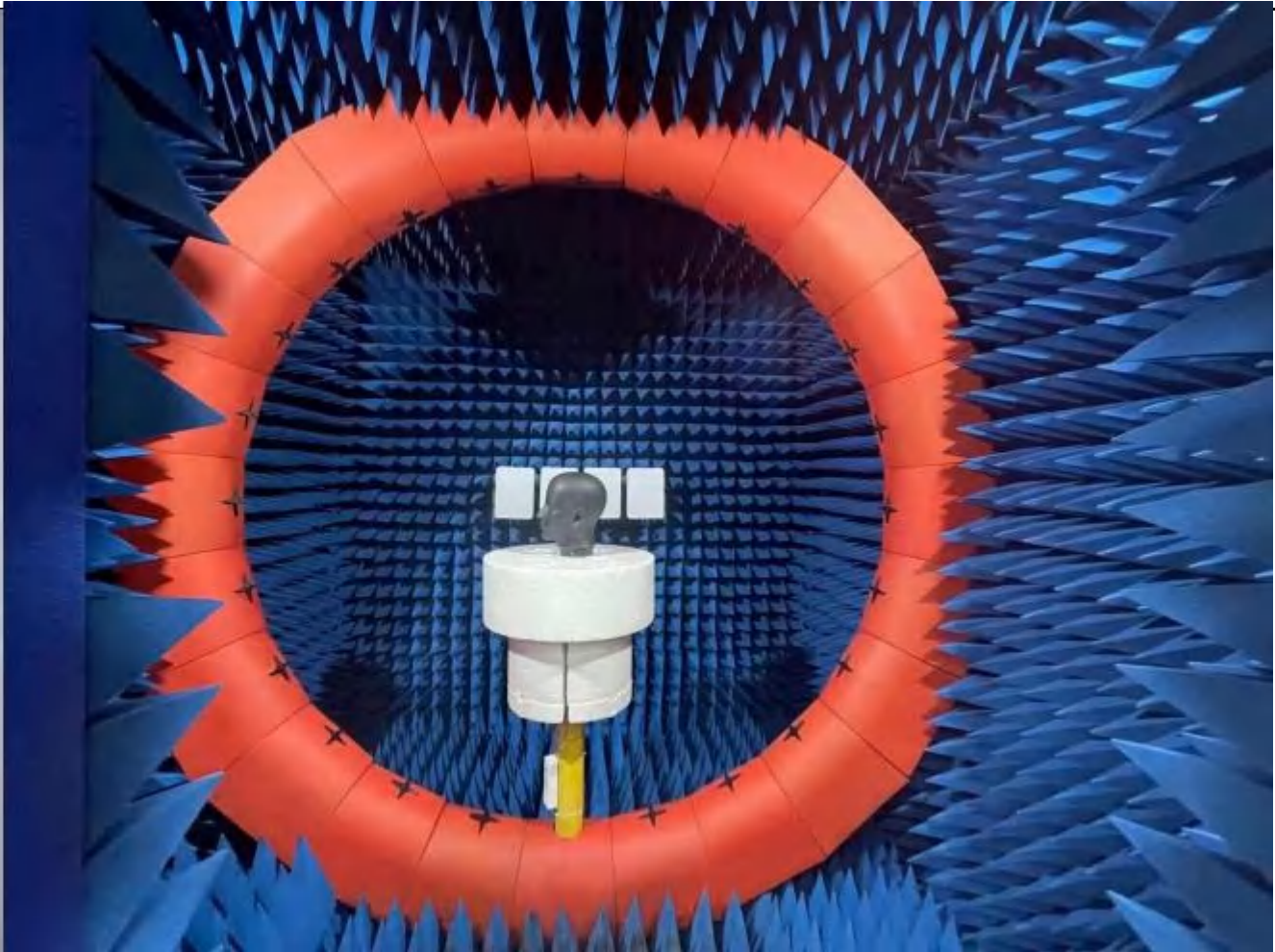
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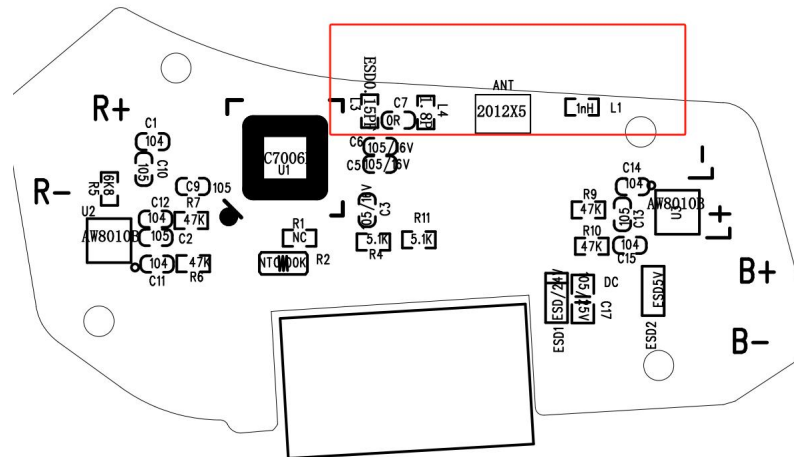
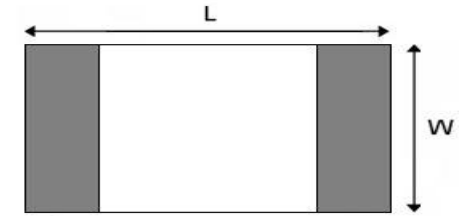
vector network analyzer



vector network analyzer	Agilent Technologies E5071B & R&S CMW500
shielded room	Atenlab M3
test engineer	CK
temperature	25℃
Humidity	65% (RH)



Antenna Placement ANT: 2012F245X5
ANT Type: Chip Antenna
Fre: 2400-2500MHz
External Dimensions (L×W) (mm): 2.0*1.2



Antenna active test data

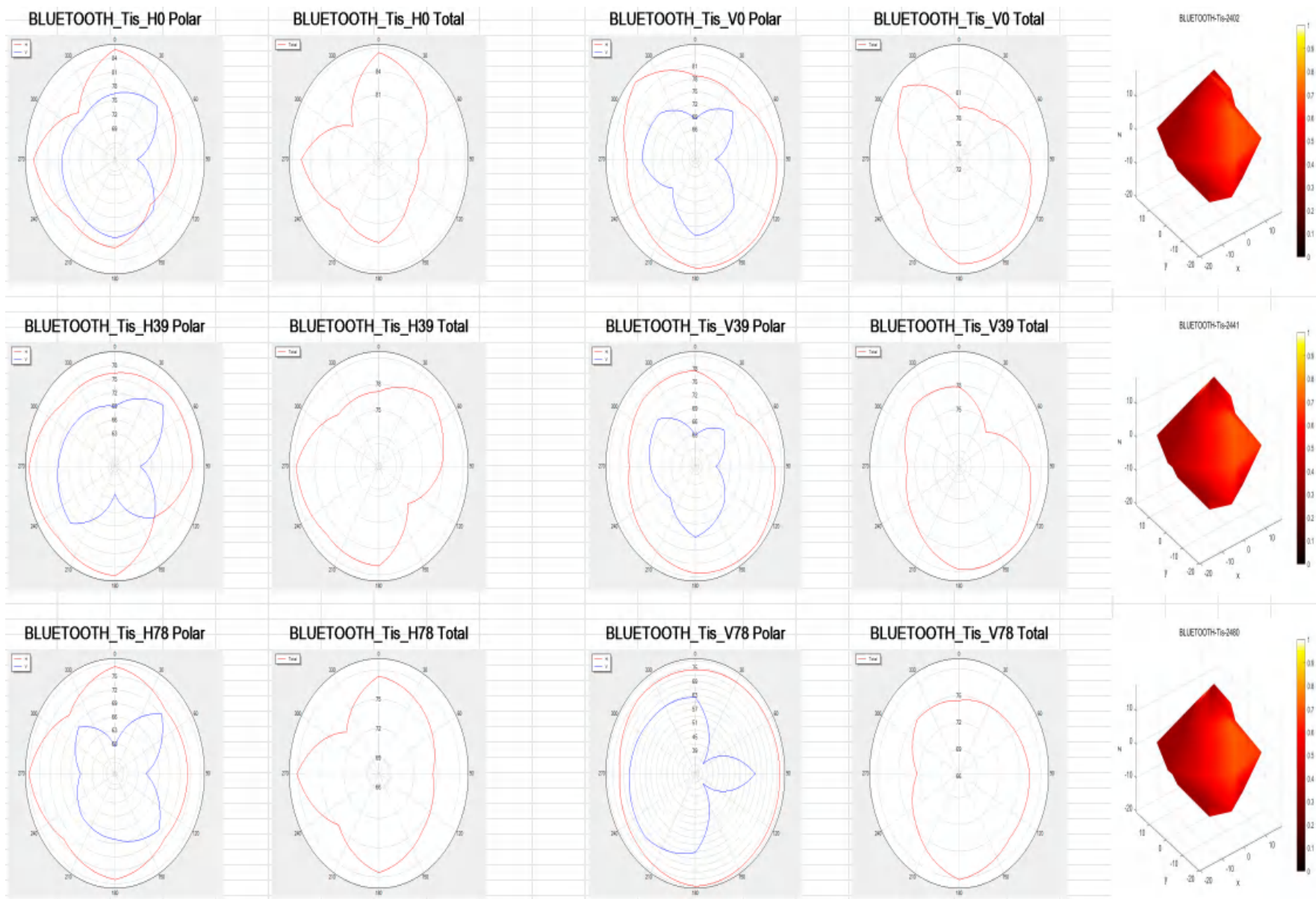
ANT EIRP&EIS parameter Summary (free field)						
频段frequency band	BT 2.4G					
信道route	0	39	78			
# TRP (dBm)	5.74	5.15	5.01			
# TIS (dBm)	-89.77	-89.18	-89.04			

ANT EIRP&EIS parameter Summary (phantom head)						
频段frequency band	BT 2.4G					
信道route	0	39	78			
# TRP (dBm)	4.57	4.86	4.58			
# TIS (dBm)	-88.25	-88.57	-88.53			



#

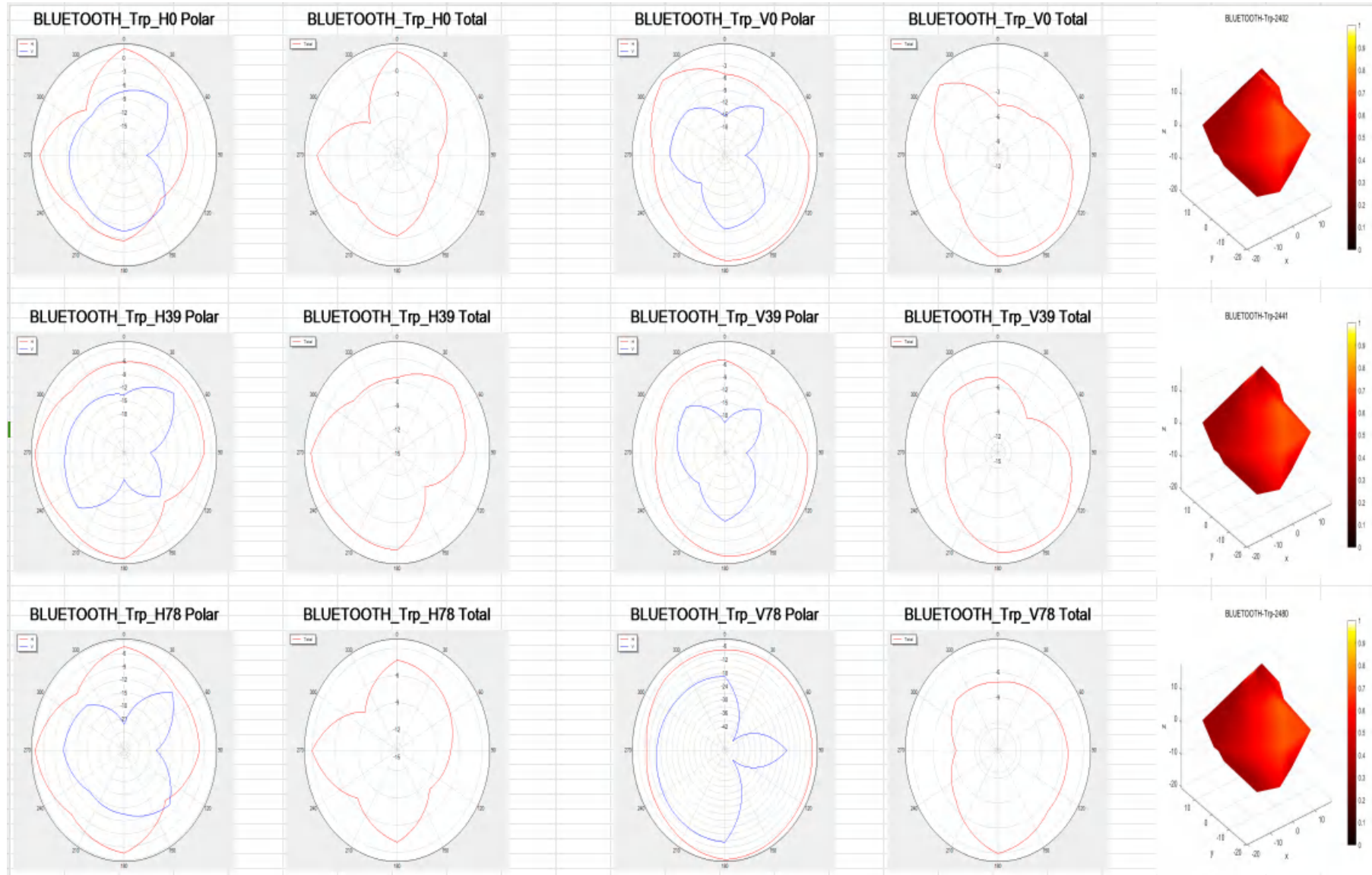
-TIS The antenna pattern of the free field



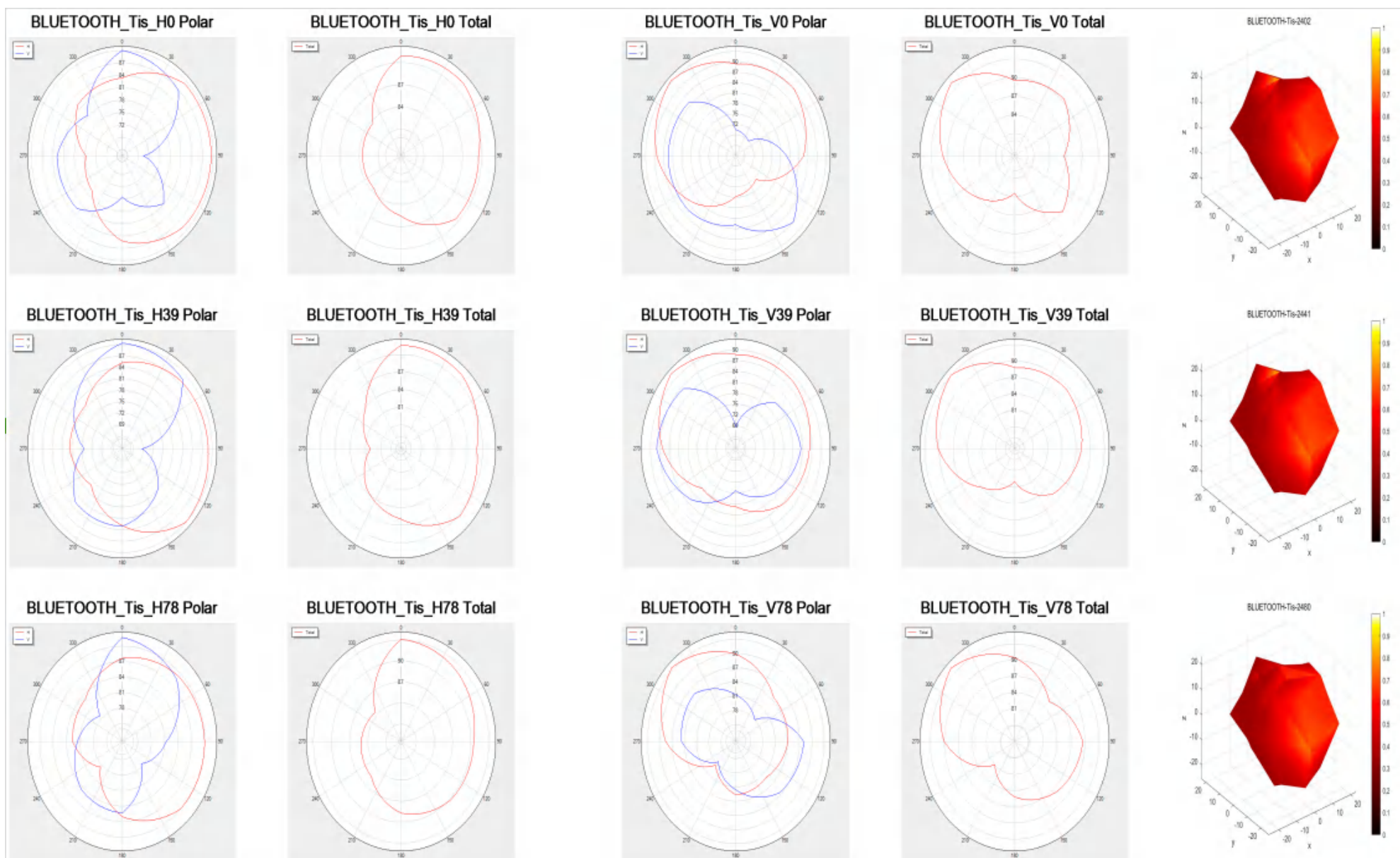


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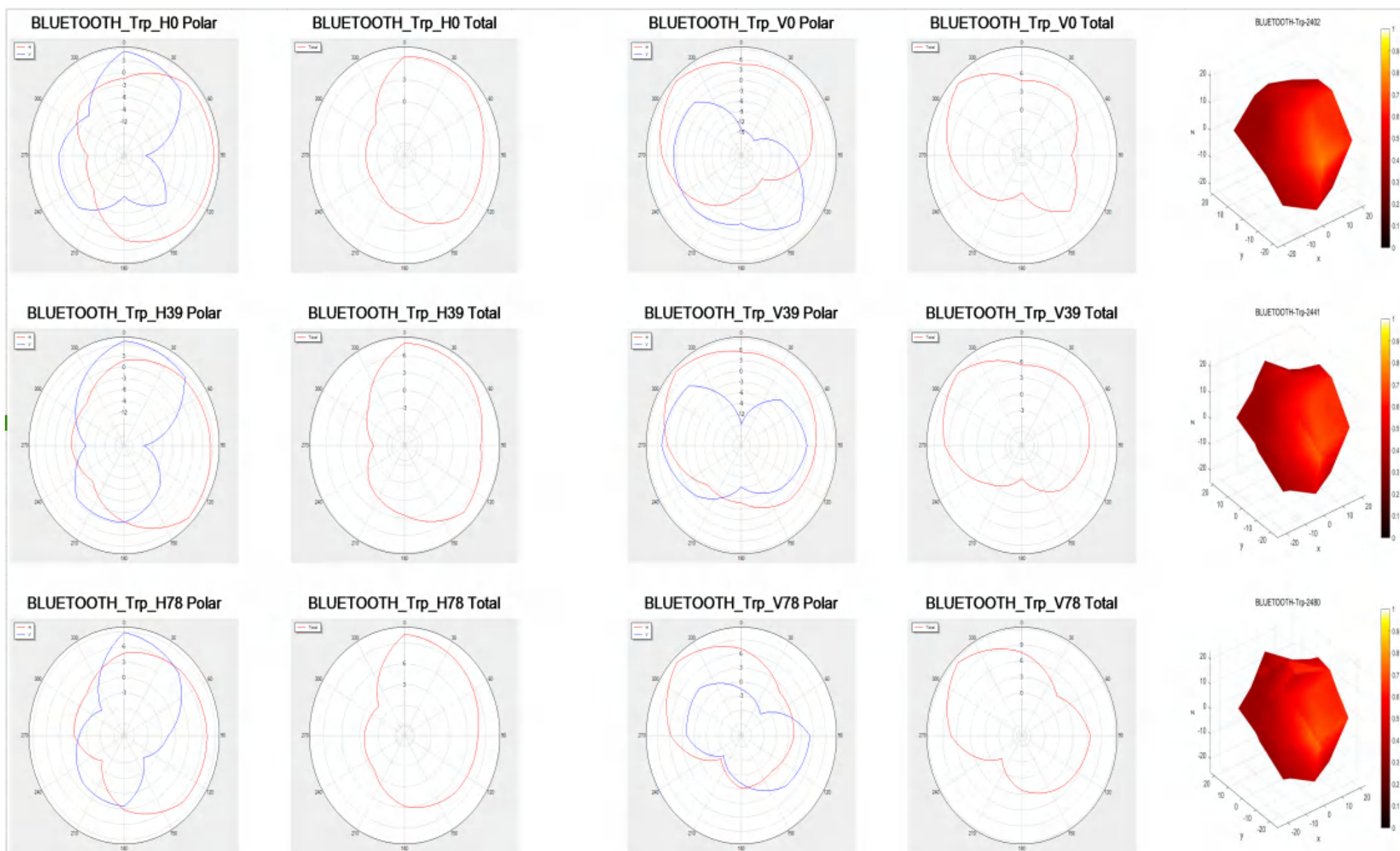
-TRP The antenna pattern of the free field



-TIS-An antenna pattern simulating a human head



-TRP-An antenna pattern simulating a human head



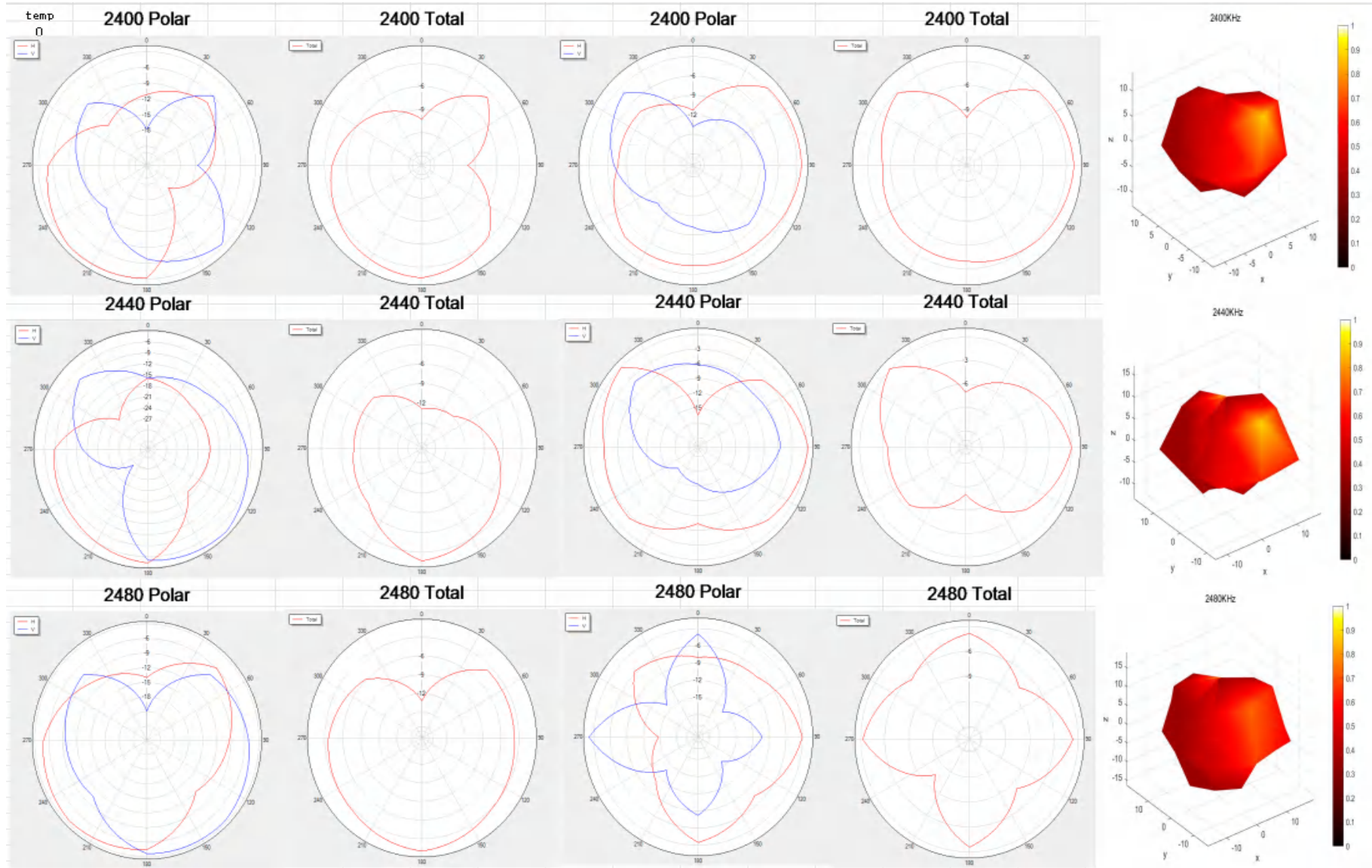


Antenna efficiency gain



Frequency	Effic	Percen	Gain
2400	-3.65	43.15%	2.17
2440	-3.57	43.94%	2.31
2480	-3.48	43.86%	2.21

Antenna radiation pattern 2400.00MHz/2440.00MHz/2480.00MHz



measuring distance

a. Environment

test project	Trying hard not to hear		Pocket test requirement		descr
X7-AC7006F			right front	OK	The iPhone5 was tested over 15+ meters in the park
	OK		front-left	OK	
			right rear	OK	
			left rear	OK	

b. summarize

X7-AC7006F 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

2023-5-12