



DK062 - Antenna Test Report

Date: 2023.06.12

CONTENTS

01

Project Overview

02

Test Environment

03

Matching Circuit

04

Environmental
Treatment

05

Passive Report

06

Active Report

07

Conclusion

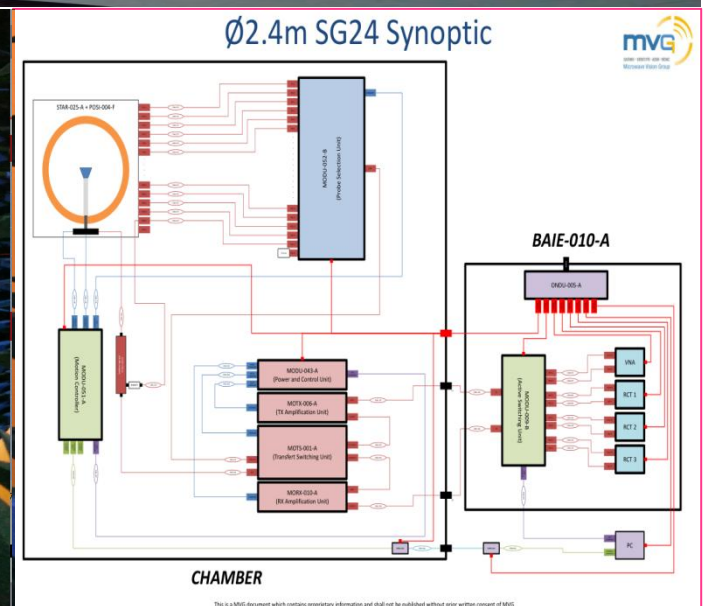
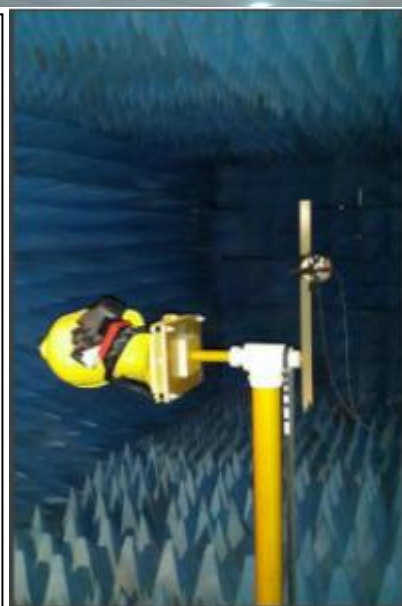
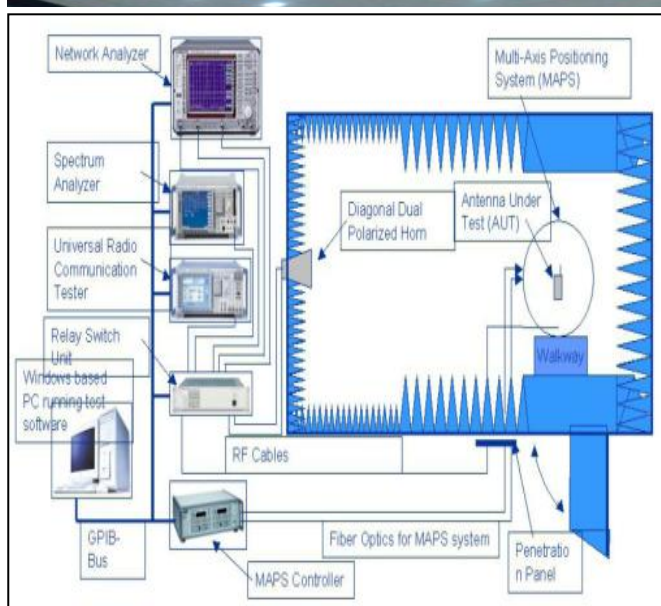
Project Overview



Main antenna design spectrum	GSM:B2/B3/B5/B8 WCDMA:B1/8 LTE:B1/3/7/8/20/40
Type of antenna	PIFA
Deputy antenna design spectrum	WIFI/GPS/BT
Type of antenna	PIFA
Frequency diversity antenna	LTE:B1/3/7/8/20/40
Type of antenna	PIFA

Repor version:	Date	Content
V2.0	2023.06.12	Antenna test report

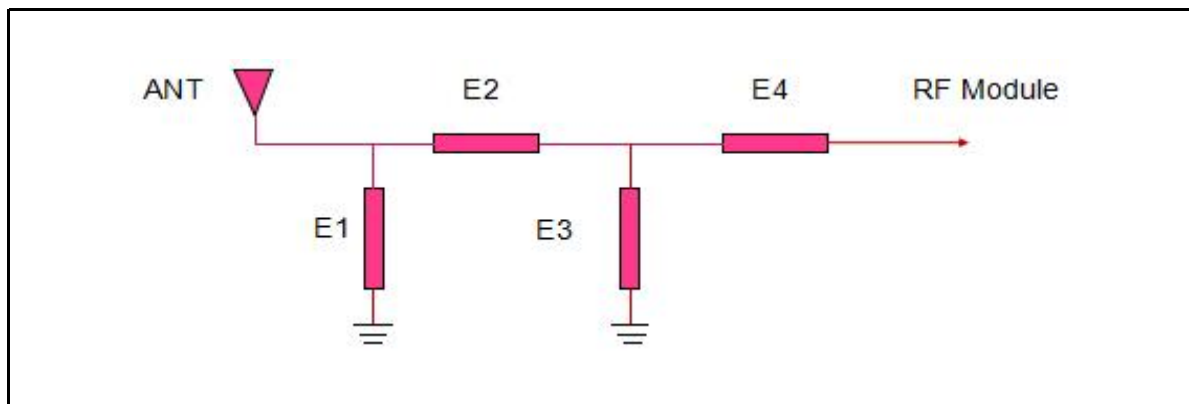
Test Environment



Darkroom system : MVE SG24LT (Satmio)

Matching Circuit

main antenna design	
Element	Value
E1(0201):	/
E2(0201):	/
E3(0201):	/



Note: The matching circuit has not changed.

Figure: The motherboard is grounded with a conductive sponge.

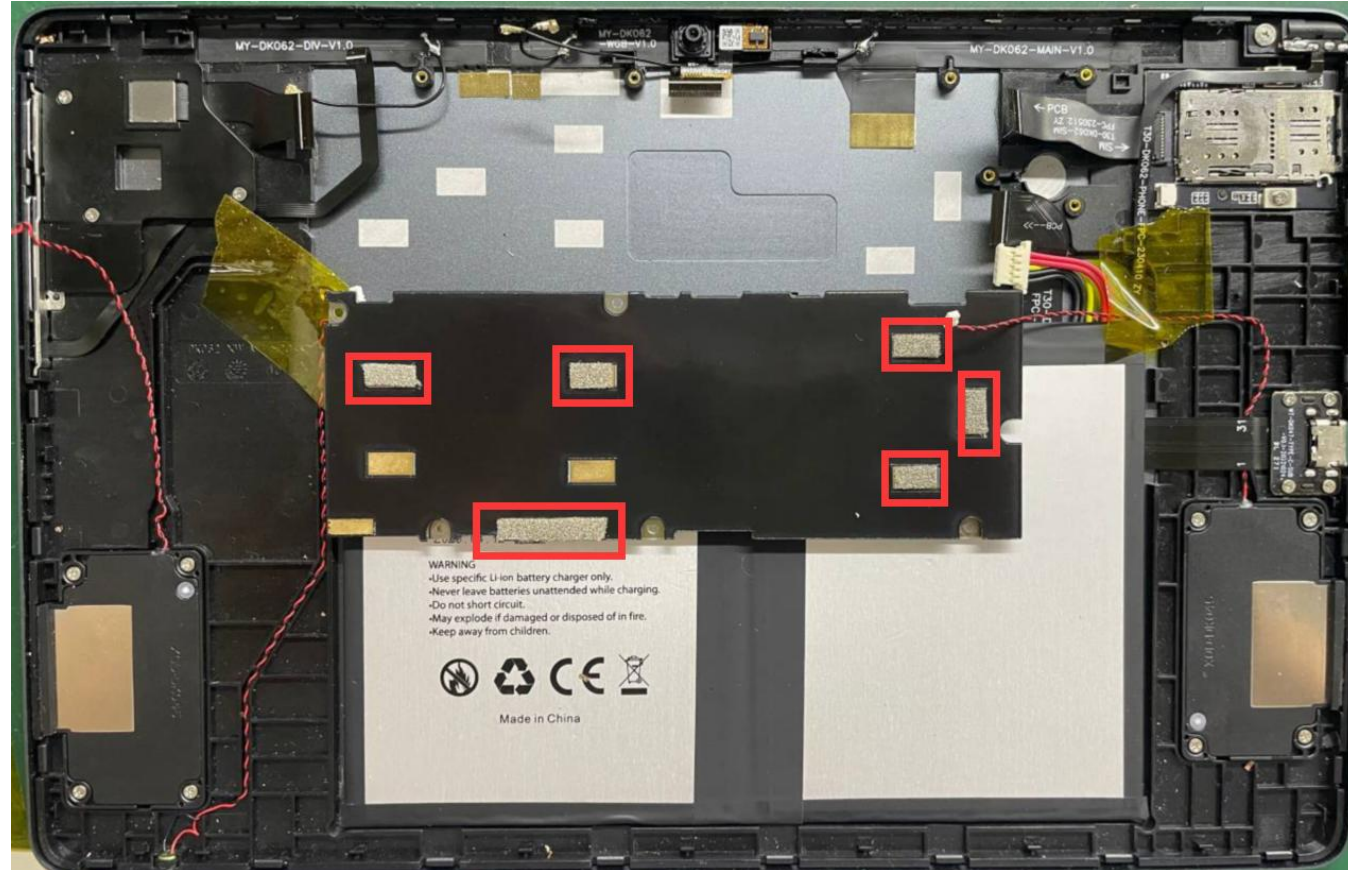
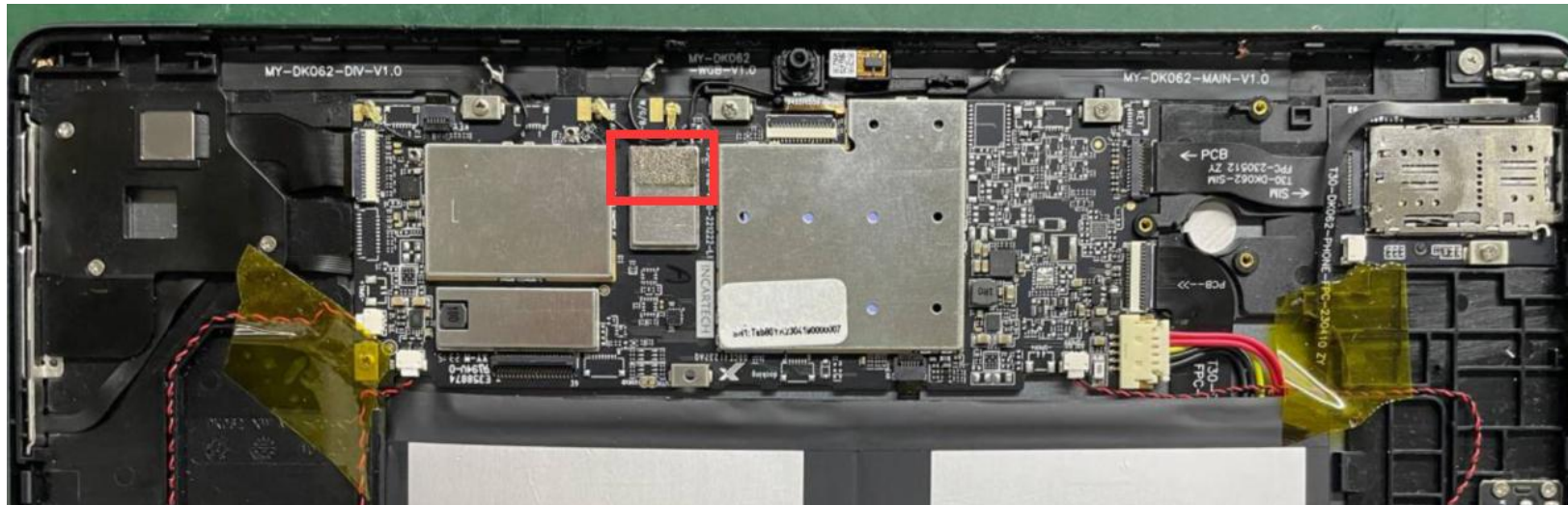
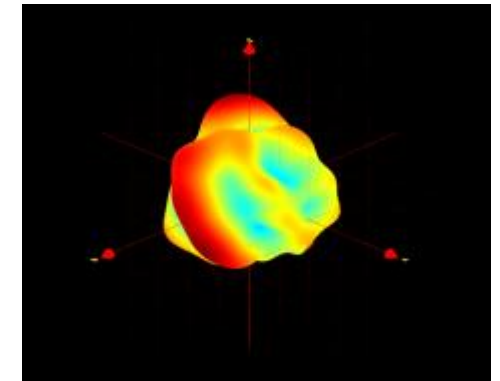
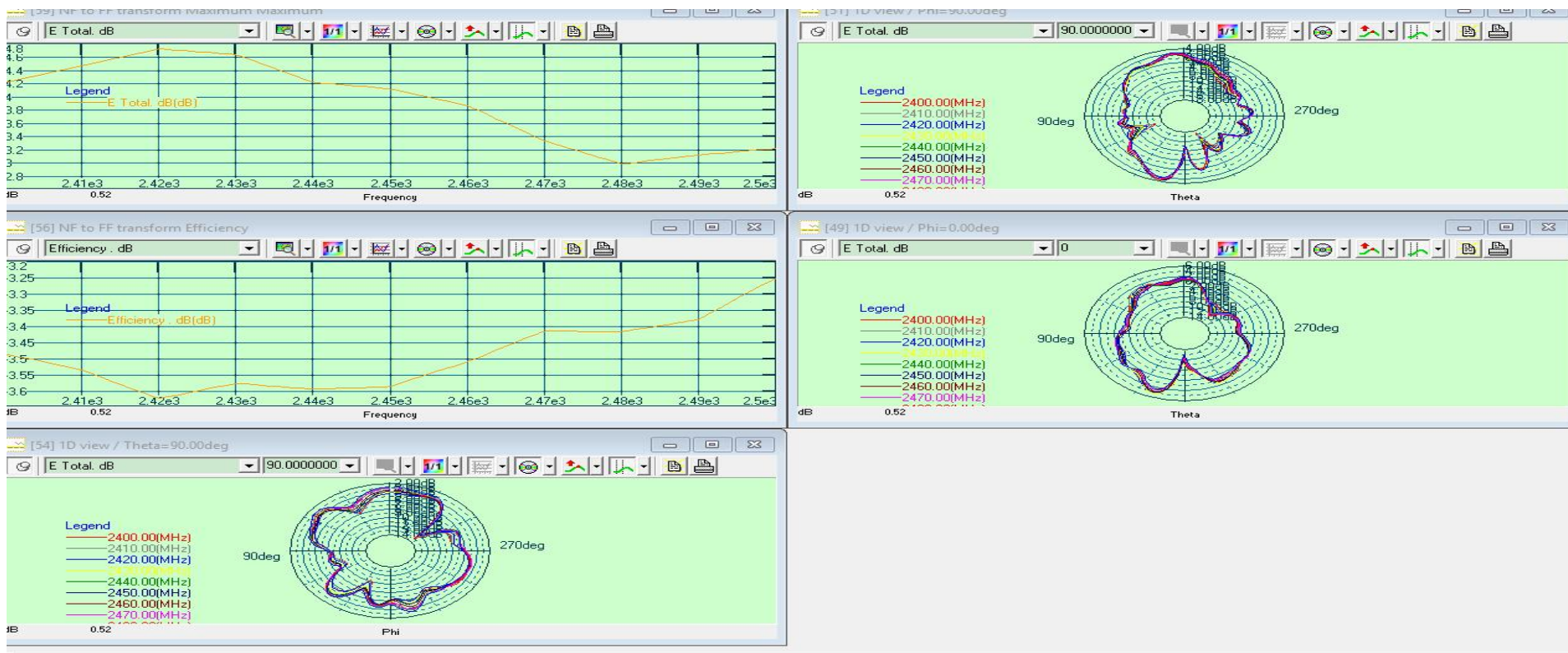


Figure: The motherboard is grounded with a conductive sponge.





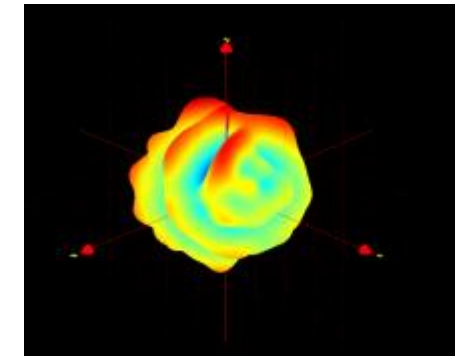
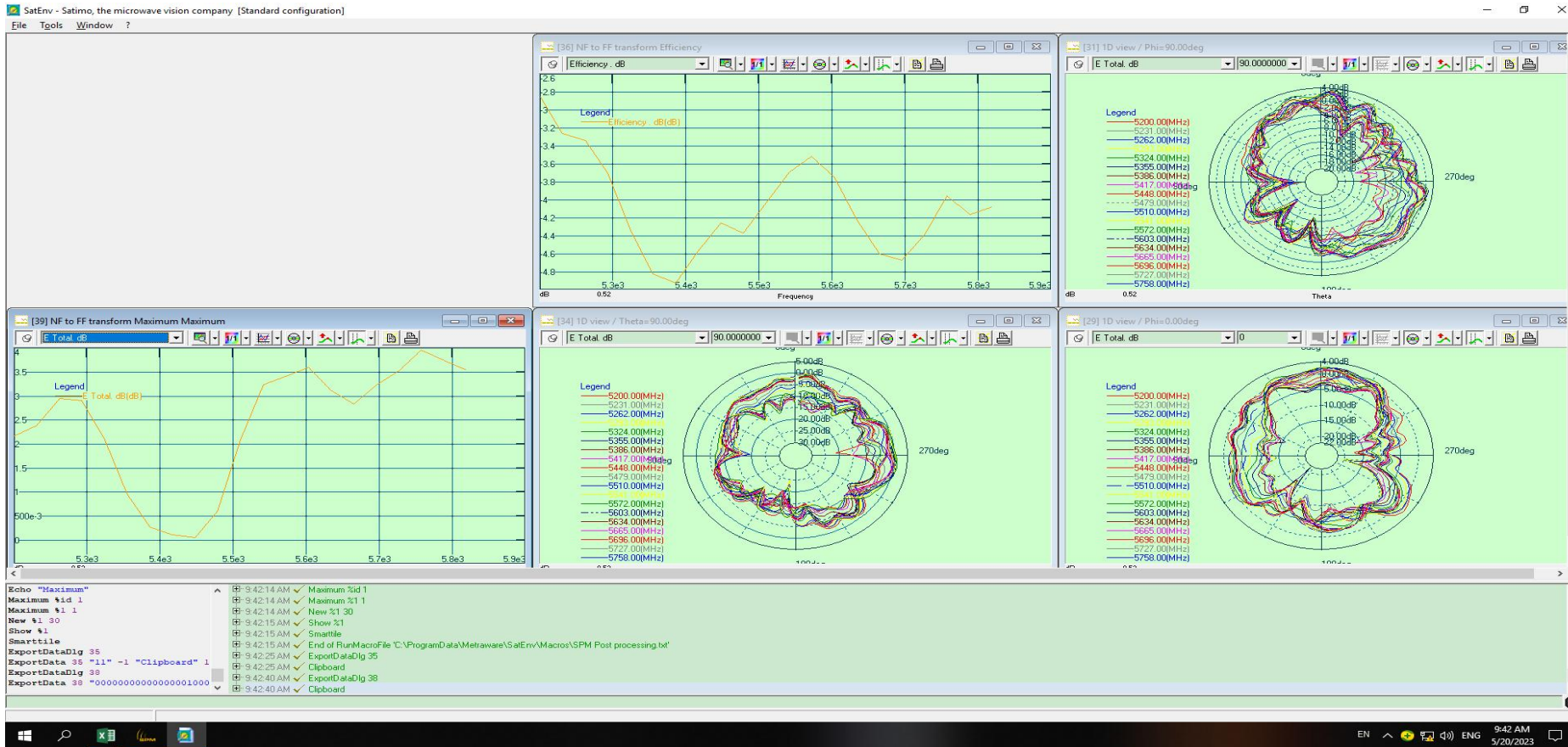
2.4G Passive pattern



Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)



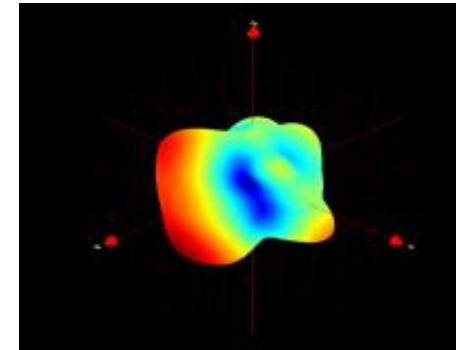
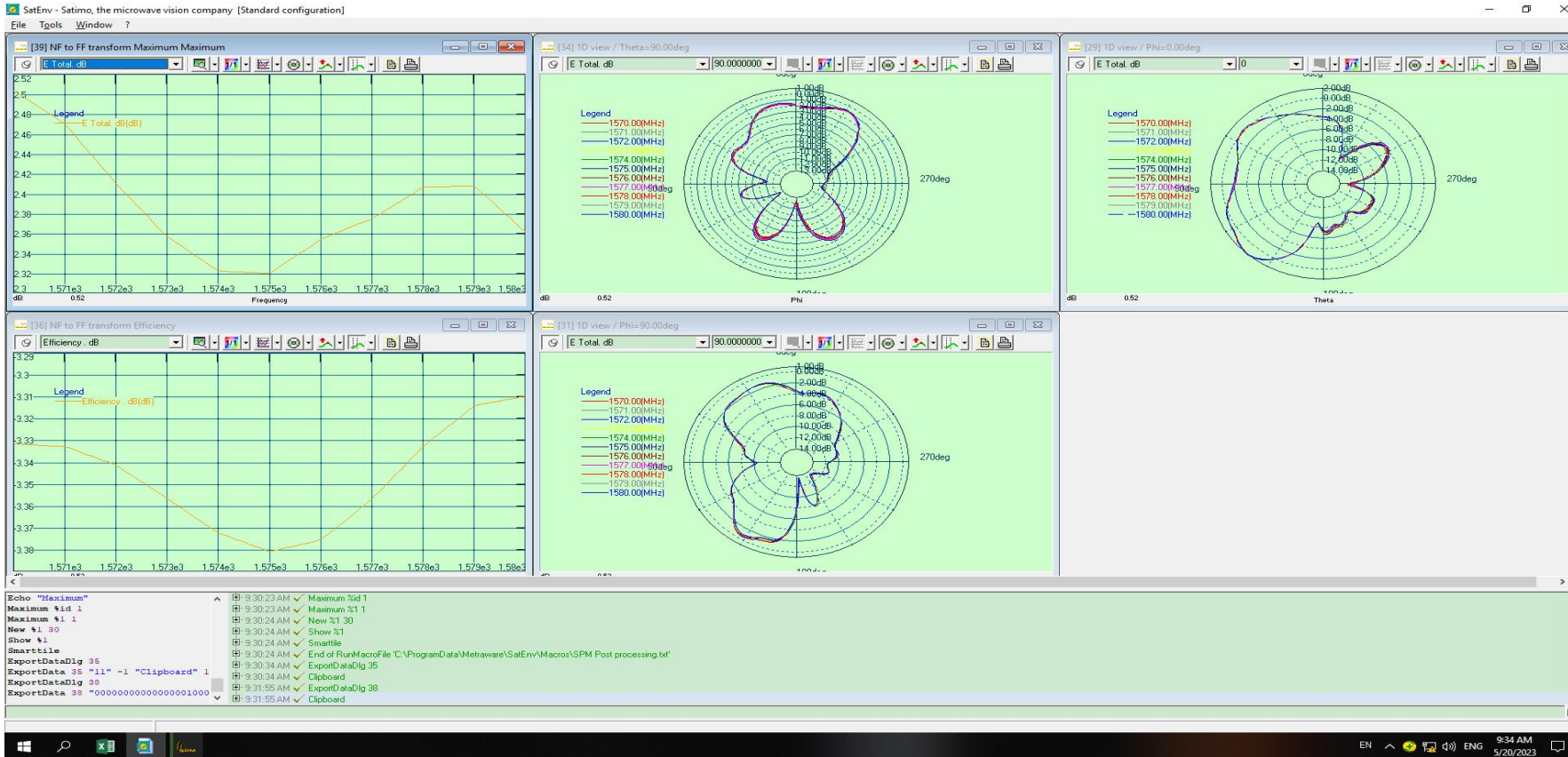
5.8G Passive pattern



Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)



GPS Passive pattern



Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)



	BAND	GSM900			DCS1800		
3D	CHANNAL	1	62	124	512	699	885
	TRP	27.27	27.18	27.04	25.49	25.77	25.78
	TIS			-100.47			-103.78
	BAND	GSM850			PCS1900		
	CHANNAL	128	190	251	512	661	810
	TRP	26.56	26.57	26.82	26.24	26.47	26.59
	TIS			-102.79			-102.24



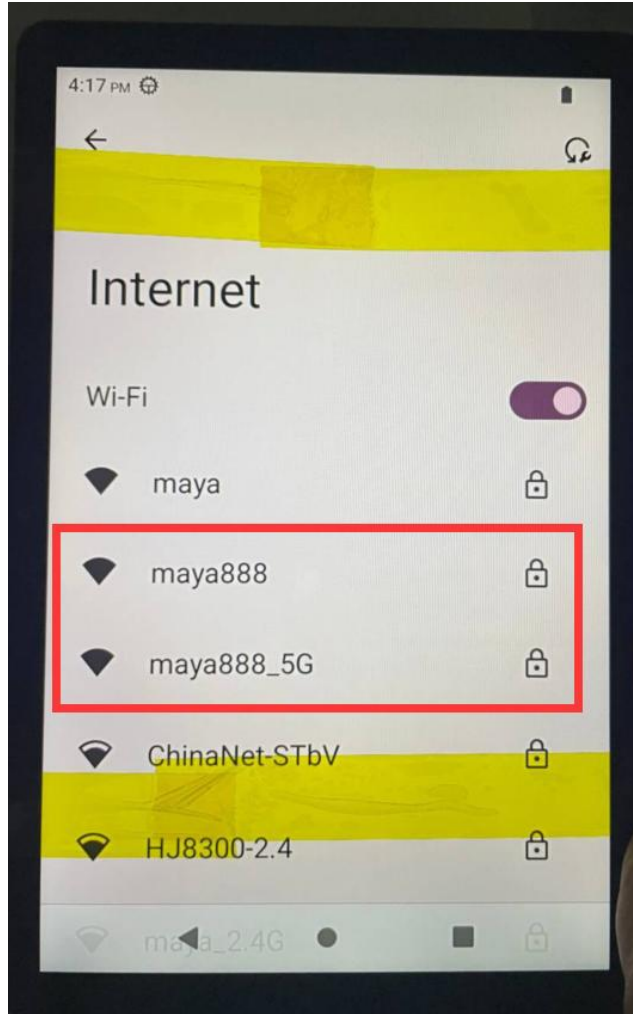
	BAND	WCDMA-B1			WCDMA-B8		
3D	CHANNAL	L	M	H	L	M	H
	TRP	18.57	18.28	17.81	17.51	17.82	18.05
	TIS			-105.35			-102.26
	BAND	LTE-B1			LTE-B3		
	CHANNAL	L	M	H	L	M	H
	TRP	18.31	18.06	17.97	17.58	18.46	18.72
	TIS			-94.01			-93.42



	BAND	LTE-B7			LTE-B8		
3D	CHANNAL	L	M	H	L	M	H
	TRP	17.08	17.35	17.18	18.05	18.46	18.56
	TIS			-92.57			-90.48
	BAND	LTE-B20			LTE-B40		
	CHANNAL	L	M	H	L	M	H
	TRP	15.52	16.12	16.59	16.53	16.39	16.05
	TIS			-87.71			-88.54



	BAND	WiFi_B			WiFi_G		
3D	CHANNAL	L	M	H	L	M	H
	TRP	12.23	13.12	13.69	10.76	11.03	11.27
	TIS			-80.74			-69.08
	BAND	WiFi_N			WiFi_A		
	CHANNAL	L	M	H	L	M	H
	TRP	9.37	10.22	10.87	10.66	10.53	10.32
	TIS			-65.45			-69.16
	BAND	WiFi_AC					
	CHANNAL	L	M	H			
	TRP	9.21	9.12	9.11			
	TIS			-64.13			



WiFi measurement: Signal strength 12M away from the router.

BT measurement

Front barrier distance: 15 meters, distance from the human body: 10 meters. The call lasted 3 minutes without noise.



GPS measurement: Measured in the company's downstairs parking lot in the evening within two minutes of positioning, the maximum star value 42.






Conclusion

1. This report is the sample antenna test results .
2. If you have any questions, please call.

THANK YOU



If you have any questions, please contact us
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