

深圳市尚驱电子科技有限公司

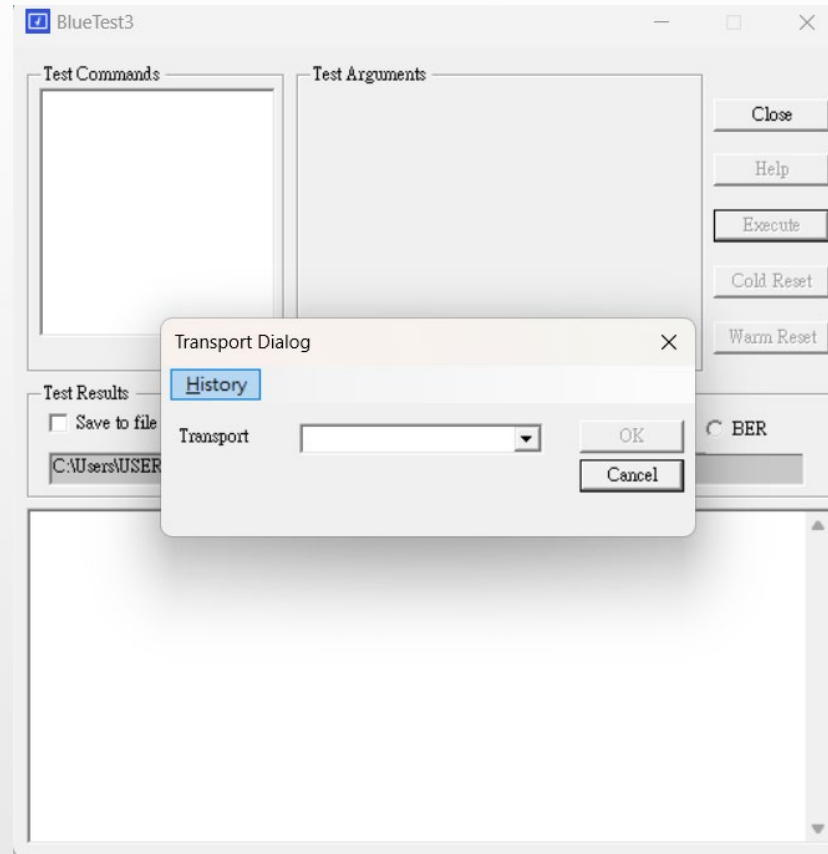
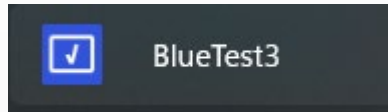
Shenzhen Parax Electronic Technology Co., Ltd

Customer	PG
Project	BT-266 (V4. 1)
Product Description	QCC3095 (3216 chip)

Report Date	2025. 7. 4	Test by	張大文
Report Version	V4. 1	Aprove by	周伦超

I. Test Condition

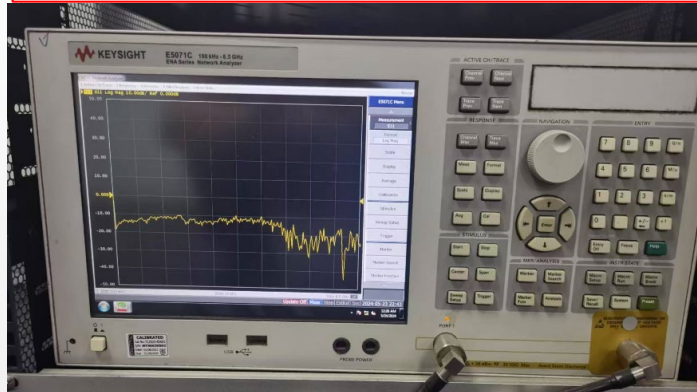
Use Qualcomm tool to adjust RF power setting : BlueTest3



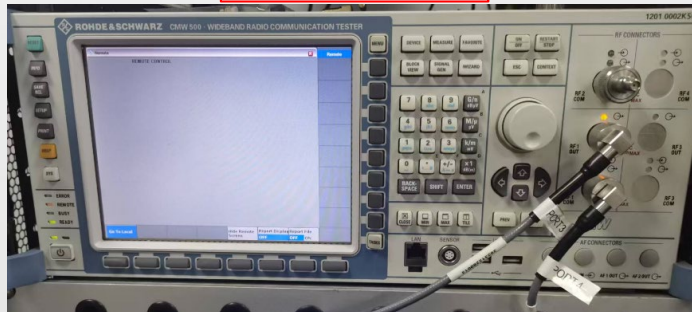
I. Equipment and Calibration record

OTA Test equipment list

Network Analyzer E5071C



CMW500



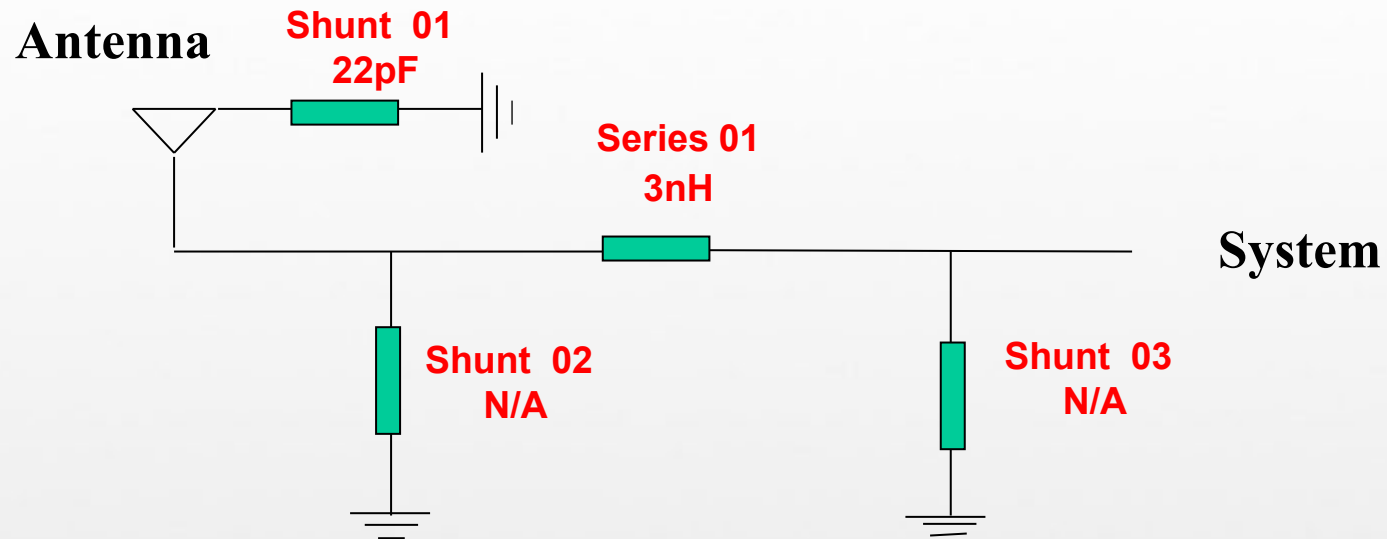
OTA Lab



Instrument name	Calibration time	Validity period
E5071C	2025/1/20	2026/1/20
CMW500	2025/1/20	2026/1/20
OTA Lab	2025/1/20	2026/1/20

II. Test Result

2.1 BT Antenna Matching



Location	Description	Vendor
Shunt 01	22pF	Sunlord
Series 01	3nH	Sunlord
Shunt 02	N/A	N/A
Shunt 03	N/A	N/A

Antenna type: PIFA

II. Test Result

2.2 Antenna

Overall Result: PASS

TRM/CA/01/C (Output Power)

Packet Length Tested: DH5

Hopping OFF	Low	Med	High	Limits
Average Power	8.78 dBm	8.44 dBm	8.48 dBm	
Max Power	8.78 dBm	8.44 dBm	8.48 dBm	< 20.00 dBm
Min Power	8.78 dBm	8.44 dBm	8.47 dBm	> -6.00 dBm
Peak Power	8.88 dBm	8.55 dBm	8.58 dBm	< 23.00 dBm
Total Packets Failed	0	0	0	
Total Packets Tested	10	10	10	
Result	Pass	Pass	Pass	

TRM/CA/03/C (Power Control)

Packet Length Tested: DH1

Hopping OFF	Low	Med	High	Limits
Max Power	8.80 dB	8.40 dB	8.50 dB	
Min Power	-16.80 dB	-17.10 dB	-17.20 dB	
Max Power Step	6.20 dB	6.20 dB	6.20 dB	<= 8.00 dB
Min Power Step	3.20 dB	3.20 dB	3.20 dB	>= 2.00 dB
Total Packets Failed	0	0	0	
Total Packets Tested	12	12	12	
Result	Pass	Pass	Pass	

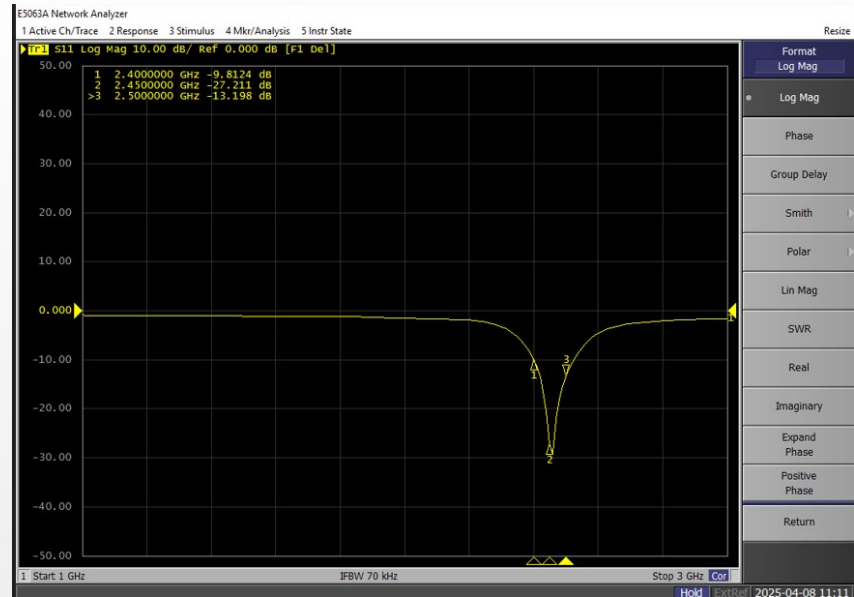
TRM/CA/08/C (Initial Carrier)

Packet Length Tested: DH1

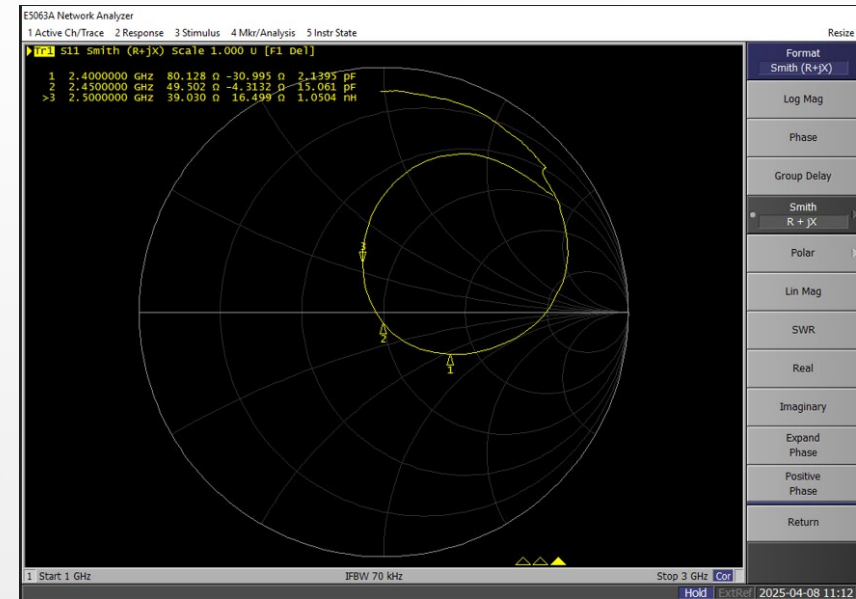
Hopping OFF	Low	Med	High	Limits
Average Offset	-5.9 kHz	-6.2 kHz	-6.2 kHz	
Max Offset	-4.4 kHz	-3.1 kHz	-3.7 kHz	<= 35 kHz
Min Offset	-7.4 kHz	-9.5 kHz	-7.6 kHz	<= 35 kHz
Total Packets Failed	0	0	0	
Total Packets Tested	10	10	10	
Result	Pass	Pass	Pass	

II. Test Result

2.3 Antenna S-Parameter



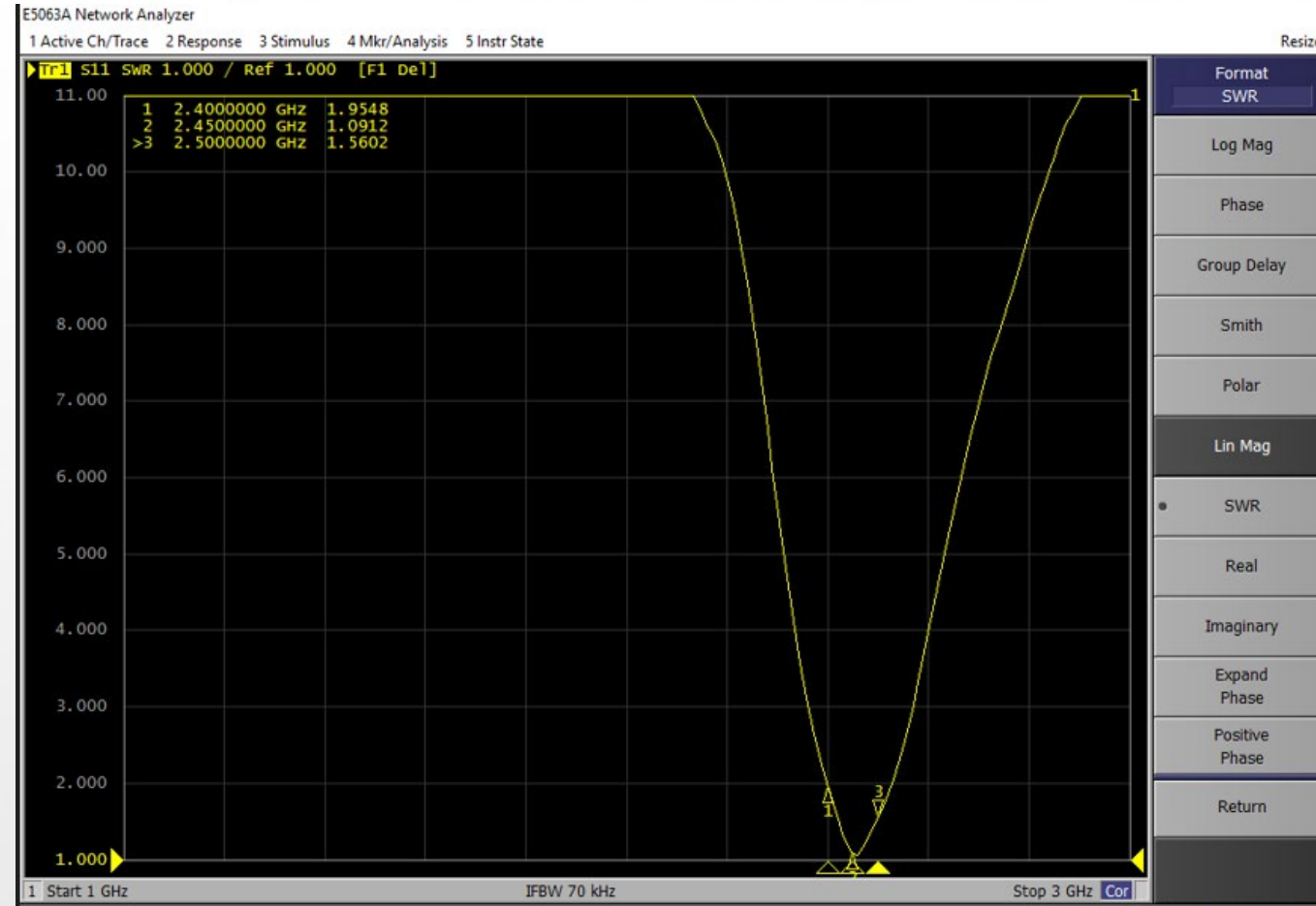
Return loss



Smith-Chart

II. Test Result

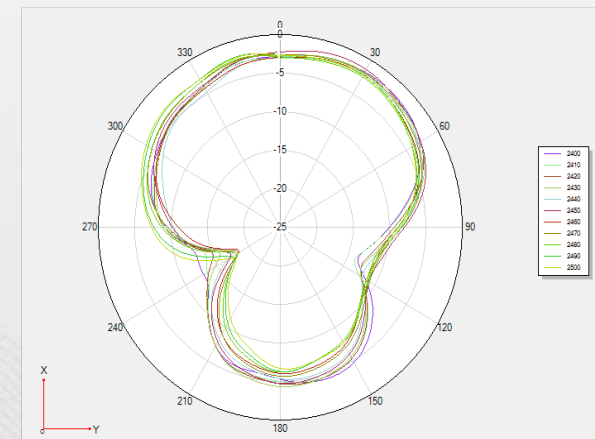
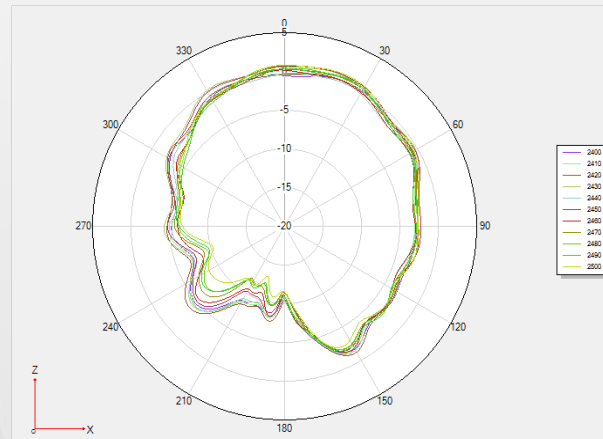
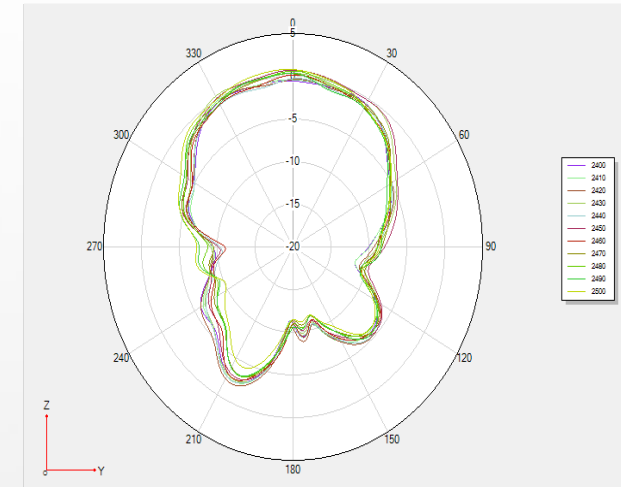
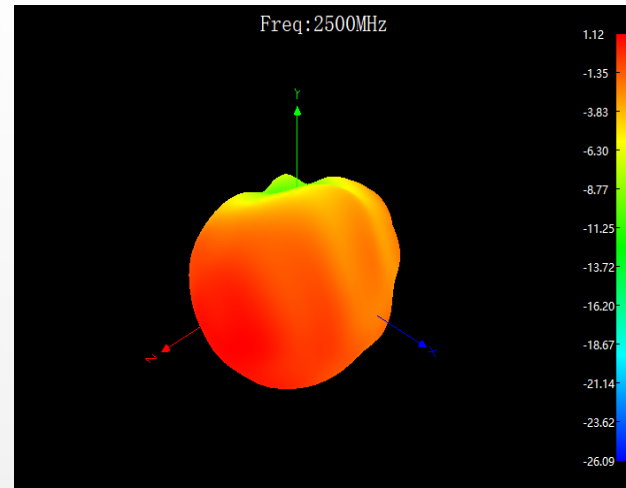
2.4 Antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.95	1.09	1.56

II. Test Result

2.5 2D/3D Gain Pattern



II. Test Result

2.6 Efficiency And Peak Gain

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	42.32	1.27
2420	43.52	1.34
2440	44.21	1.34
2450	45.01	1.38
2460	44.23	1.32
2480	43.34	1.13
2500	42.53	1.02

II. Test Result

2.7 Antenna Active (OTA)

Free Space

Test Project	Bluetooth		
Channel	0	39	78
Frequency (MHz)	2402	2441	2480
TRP(dBm)	5.69	5.73	4.5
TIS(dBm)	-90.78	-90.84	-89.61

Place on the arm

Test Project	Bluetooth		
Channel	0	39	78
Frequency (MHz)	2402	2441	2480
TRP(dBm)	2.03	2.38	1.34
TIS(dBm)	-87.86	-88.08	-88.04



The End