



SHENZHEN YINGJIACHUANG ELECTRONIC TECHNOLOGY CO.,LTD

Snap B32F antenna commissioning report

DELIVERY DATE: 23 January 2026

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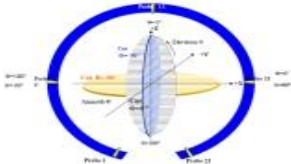
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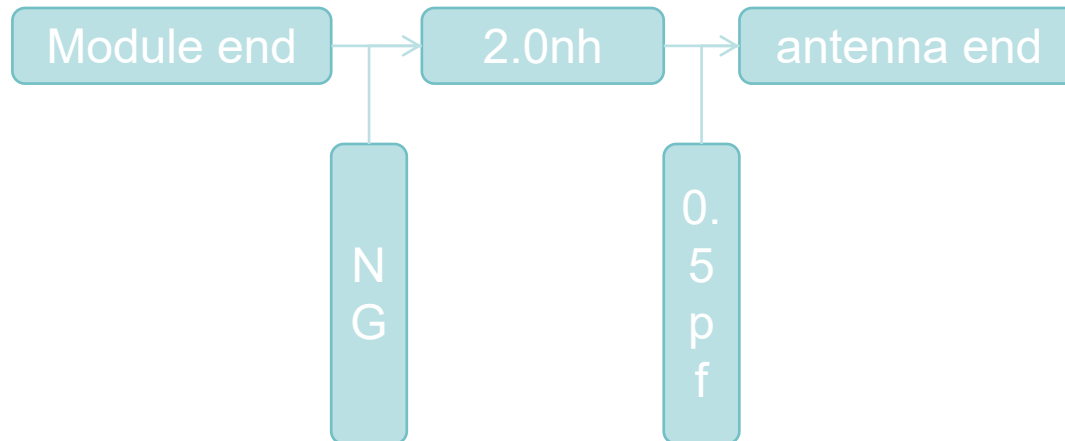
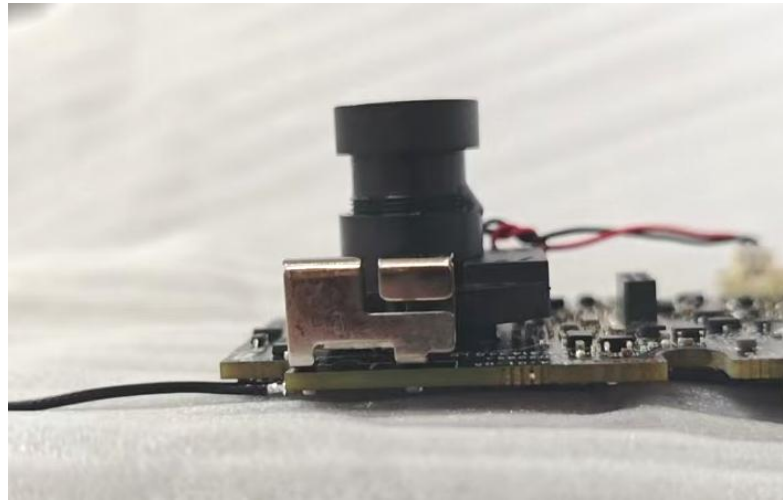
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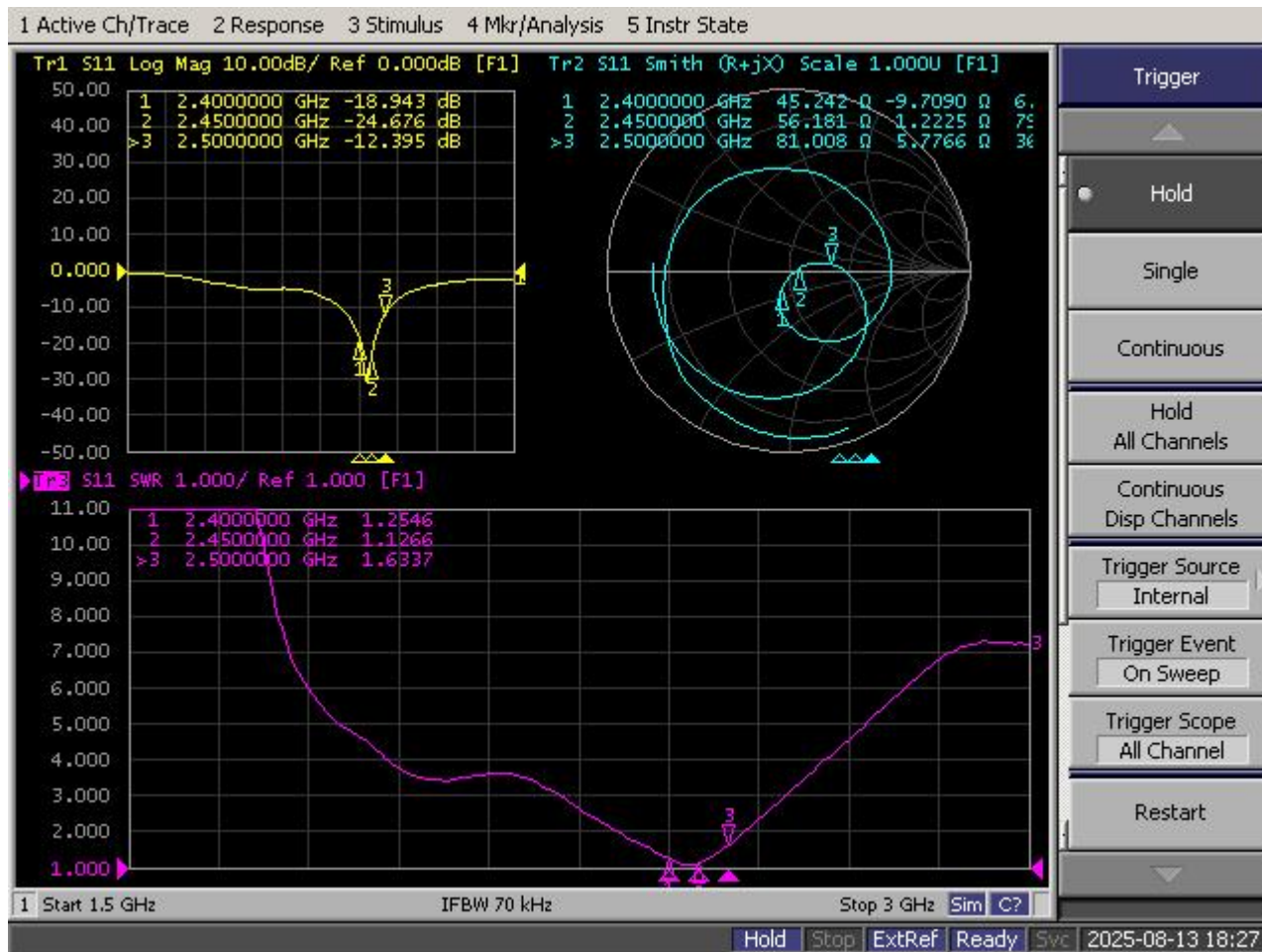
Instrumentation :

	Test itens	Test equipment
S Parameter	1.Retum Loss 2.VSWR	Network analyzer (Agilent E5071B) (Calibration date:November10, 2025–November 09, 2026)
Passive test	1.Frequency 2.Gain 3.Radiation Pattern	1.3Dmicrowave darkroom (5m*4m*4m) 2.Network analyzer (Agilent E5071B) (Calibration date:November10, 2025–November 09, 2026)
Active test	1.TRP 1.TIS	1.3Dmicrowave darkroom (5m*4m*4m) 2.Comprehensive test instrument (CMW500) (Calibration date: November09, 2025–November08, 2026)
Passive is to collect DUT spherical near-field data through multi-probe, and then the direction map of DUT is calculated by the near-far-field conversion formula. Finally, the gain and efficiency are calculated by the directionality coefficient on the direction map		
Dark room coordinates		test mode
		
CMW500		Agilent E5071B
		

A picture of the antenna in action:



S11:



OTA active test data:

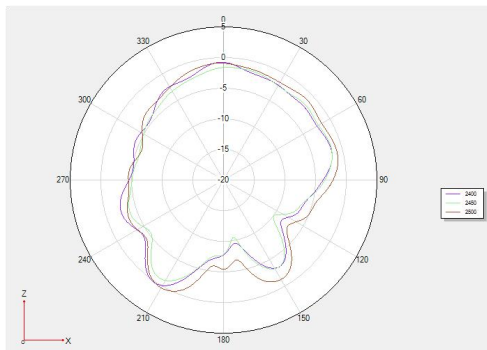
Item	Measurement	Standard	Band	Channel	Frequency	Total
1	TRP	WIFI (AP)	WIFI_B (11M)	1	2412	13.74
2	TRP	WIFI (AP)	WIFI_B (11M)	6	2437	13.85
3	TRP	WIFI (AP)	WIFI_B (11M)	11	2462	13.51
4	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	1	2412	-84.14
5	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	6	2437	-83.48
6	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	11	2462	-84.16
7	TRP	WIFI (AP)	WIFI_B (1M)	1	2412	13.71
8	TRP	WIFI (AP)	WIFI_B (1M)	6	2437	13.83
9	TRP	WIFI (AP)	WIFI_B (1M)	11	2462	13.6
10	TRP	WIFI (AP)	WIFI_G (6M)	1	2412	15.72
11	TRP	WIFI (AP)	WIFI_G (6M)	6	2437	15.84
12	TRP	WIFI (AP)	WIFI_G (6M)	11	2462	15.45
13	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	1	2412	-70.21
14	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	6	2437	-70.99
15	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	11	2462	-71.11
16	TRP	WIFI (AP)	WIFI_G (54M)	1	2412	15.71
17	TRP	WIFI (AP)	WIFI_G (54M)	6	2437	15.85
18	TRP	WIFI (AP)	WIFI_G (54M)	11	2462	15.38
19	TRP	WIFI (AP)	WIFI_N_ISM (6.5M)	1	2412	15.73
20	TRP	WIFI (AP)	WIFI_N_ISM (6.5M)	6	2437	15.91
21	TRP	WIFI (AP)	WIFI_N_ISM (6.5M)	11	2462	15.52
22	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	-68.32
23	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	-69.55
24	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	-70.54
25	TRP	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	15.69
26	TRP	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	15.85
27	TRP	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	15.36

passive test data:

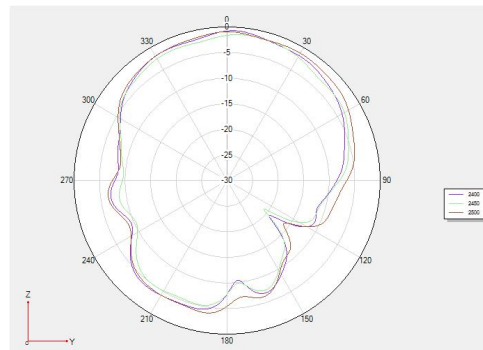
Frequency/Mhz	Efficiency / %	Gain.(dBi)
2400	45.15	0.75
2410	49.69	0.54
2420	53.39	1.06
2430	50.56	0.36
2440	47.17	0.18
2450	47.63	-0.22
2460	51.25	0.85
2470	50.56	1.50
2480	50.17	1.61
2490	47.63	0.49
2500	49.88	1.15

2D、3Dtest diagram

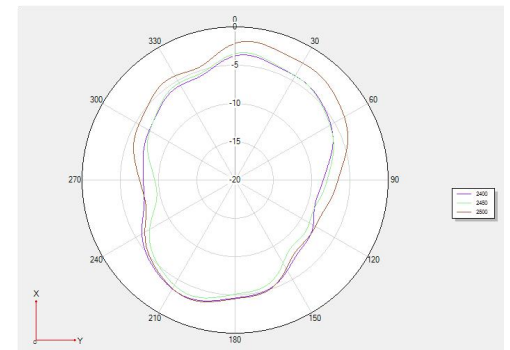
(Phi 0 2D graph)



(Phi 90 2D graph)

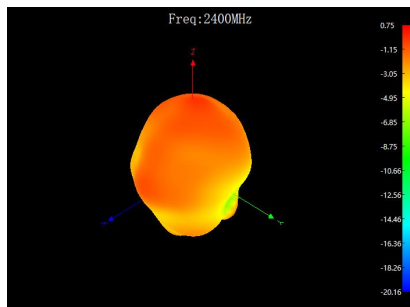


Theta 90 2D graph

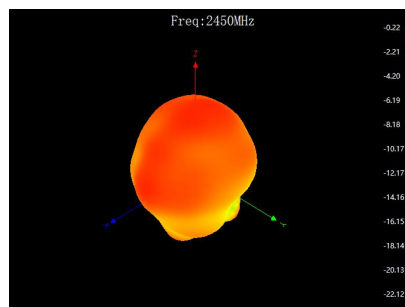


3D

3D 2400MHz



3D 2450MHz



3D 2500MHz

