

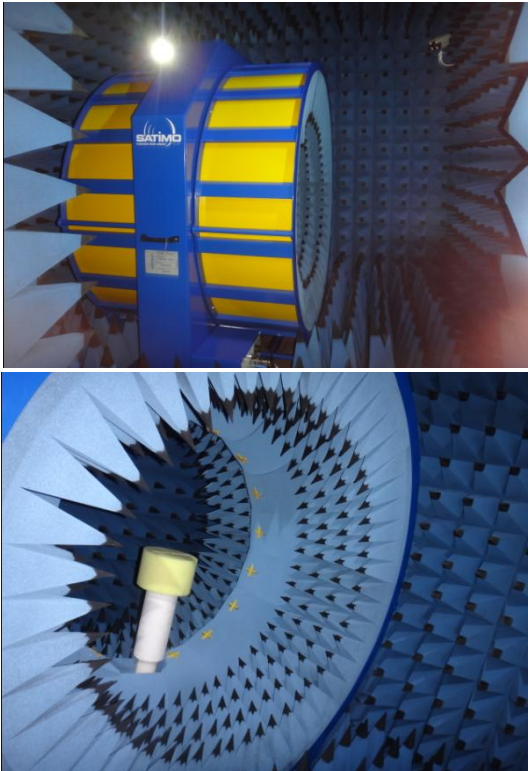
Test report



Customer Name	Chengfeng	Project Name	MQ815AC
Debug Frequency Band	2. 4G-5GWIFI	structure mode	FPC+Coaxial Cable
RF Engineer	Chengxitian	structural engineer	Dugong
Antenna Type	PIFA	Date	2026-9-1

深圳市安弗特电子有限公司

AFT tech Electronic Co., Ltd. (Shenzhen)



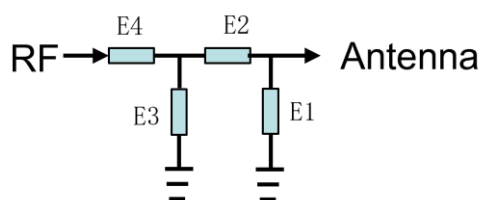
The original imported French SATIMO Company's StarLab 3D laboratory can accurately and quickly test the parameters such as TRP, TIS, efficiency, gain, Apple graph, and direction graph of communication terminal products like mobile phones, tablets, and laptops.

Antenna Report Summary

Version	Date	Summary of Content
V1	2026-6-24	Sample Antenna Test Report
V2	2026-6-29	Copy-version Sample Antenna Test Report
V3	2026-9-1	Terminal Solder-Rework Cable Test Report

WIFI Antenna Matching Circuit ---- No Changes

Element	E1	E2	E3	E4
Value	NC	0 欧	NC	



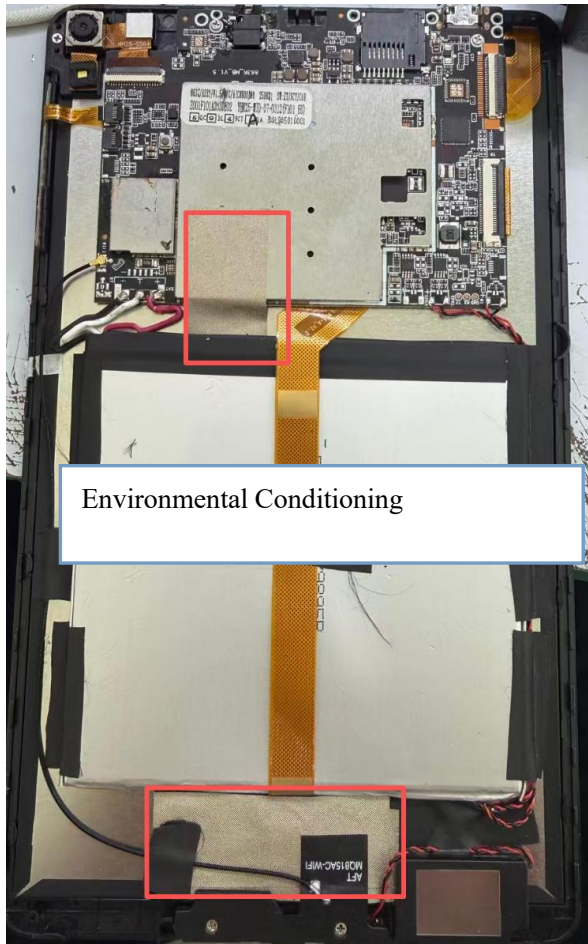
WIFI-OTA

2.4G- (B-model 11M)	1	13.0	-83.5	5G- (A-model -54M)	36	11.9	-70.0
	6	12.9	-83.5		149	11.9	-70.6
	13	13.0	-83.2		165	11.6	-66.2

Passive VSWR



Environmental Conditioning:



Notes:

1. This antenna is only applicable for the prototype debugging. Any changes to the mainboard PCB or RF circuit components, as well as alterations to accessories (such as camera, screen, speaker, motor, battery, casing processing), must be tested and verified by our company on the entire machine before they can be used.

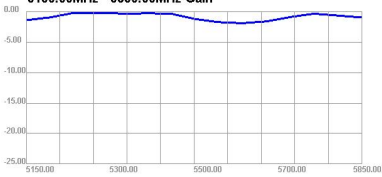
2. If this project requires third-party verification, please provide the prototype to our company at least one working day in advance for re-testing to ensure it is OK before sending for testing.

Avoiding multiple or repeated tests that may delay the project schedule!

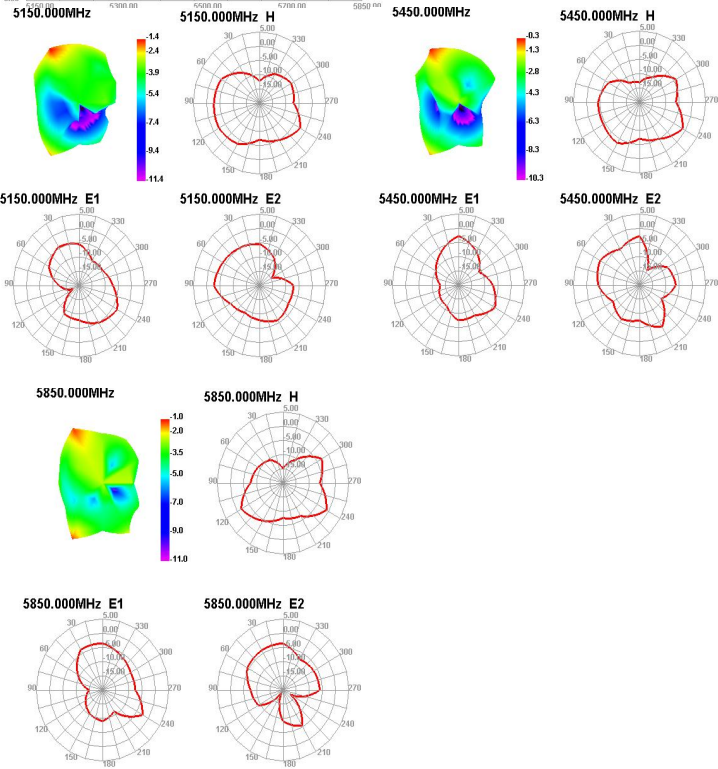
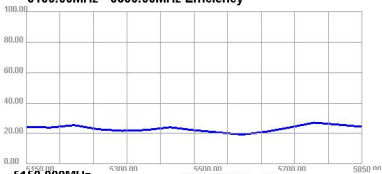
Passive Test For WiFi 8												
Freq (MHz)	Eff1 (%)	Eff1 (dB)	Gain (dBi)	Gain (dB)	ORIS (%)	ORIS (dB)	Max (dBi)	Min (dBi)	Directivity (dBi)	Beamwidth (3dB)	AttB (dB)	AttV (dB)
5150	24.43	-6.12	-1.4	-3.55	11.808	12.558	-1.4	-17.45	4.72	30	57.79	57.71
5200	23.92	-6.21	-0.95	-3.4	11.61	12.307	-0.95	-16.94	5.26	30	57.54	57.39
5250	25.47	-5.94	-0.2	-2.35	12.306	13.161	-0.2	-18.14	5.74	30	58.14	57.89
5300	22.79	-6.42	-0.19	-2.34	11.339	11.448	-0.19	-16.21	6.23	60	57.52	57.1
5350	21.70	-6.65	-0.35	-2.47	11.148	10.607	-0.35	-19.33	6.3	60	57.47	57.05
5400	22.31	-6.51	-0.29	-2.44	11.904	10.406	-0.29	-18.14	6.22	60	57.86	57.51
5450	24.1	-6.18	-0.31	-2.46	12.933	11.172	-0.31	-17.95	5.87	0	58.81	58.18
5500	22.15	-6.55	-1.19	-3.34	11.784	10.309	-1.19	-17.65	5.36	0	58.95	58.33
5550	20.74	-6.83	-1.12	-3.88	10.870	9.867	-1.12	-15.76	5.11	0	59.63	58.75
5600	19.29	-7.15	-1.9	-4.05	10.037	9.25	-1.9	-16.71	5.24	0	58.91	58.69
5650	21.17	-6.74	-1.61	-3.76	11.206	9.969	-1.61	-17.44	5.13	0	58.61	58.31
5700	24.02	-6.2	-0.9	-3.05	13.111	10.904	-0.9	-17.44	5.2	0	59.53	59.21
5750	27.13	-5.67	-0.35	-2.3	13.188	11.946	-0.35	-25.36	5.32	0	59.87	59.61
5800	25.84	-5.88	-0.66	-2.81	14.811	11.033	-0.66	-25.1	5.22	0	60.3	59.99
5850	24.43	-6.12	-0.97	-3.12	14.086	10.362	-0.97	-20.9	5.15	0	60.53	60.41

Application Information	
Diversion	5.258.361
TotalTime	5m 16s 224ms
AdditionalInfor	NULL

5150.00MHz - 5850.00MHz Gain



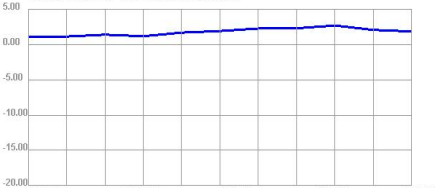
5150.00MHz - 5850.00MHz Efficiency



Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	OHIS (%)	OHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	40.84	-3.89	1.11	-1.05	21.351	19.489	1.11	-13.19	4.99	0	46.61	46.61
2410	41.32	-3.84	1.12	-1.03	21.647	19.674	1.12	-13.62	4.96	0	46.72	46.72
2420	44.16	-3.55	1.39	-0.76	23.175	20.99	1.39	-13.07	4.93	0	47.16	47.16
2430	42.98	-3.67	1.17	-0.98	22.559	20.424	1.17	-12.35	4.83	0	47.18	47.18
2440	49.53	-3.05	1.68	-0.47	26.02	23.506	1.68	-11.38	4.73	0	47.63	47.63
2450	52.55	-2.79	1.9	-0.25	27.596	24.956	1.9	-10.47	4.69	0	47.72	47.72
2460	57.19	-2.43	2.26	0.11	30.147	27.04	2.26	-10.03	4.69	0	48.07	48.07
2470	57.31	-2.42	2.3	0.15	30.319	26.994	2.3	-10.22	4.71	0	48.21	48.21
2480	63.75	-1.96	2.68	0.53	34.046	29.704	2.68	-9.88	4.64	0	48.84	48.84
2490	56.88	-2.45	2.06	-0.09	30.427	26.451	2.06	-10.31	4.51	0	48.31	48.31
2500	55.9	-2.45	1.84	-0.31	30.547	26.356	1.84	-10.14	4.29	0	48.27	48.27

Application Information	
04Version	5.258.361
TotalTime	6m 16s 224ms
AdditionalInfor	NULL

2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency

