

Antenna index test

Version number Ver	Change overview Description	Date	Author	Examine
V1_R0	初始版本	2021/12/22	韦修金	

1 **Test Purpose:**

This report focuses on the active and passive performance indicators of the antenna, please note that this report is important evidence for product acceptance and evaluation

2 **Test Equipments:**

Equipment Name	Vendor and Part Number	Comments
Agilent	E5071B	*1
Shielded room		*1

3 **Test Info**

Item	Vendor and Part Number		
Tester	Weixiujin	Test office	FLYINGVOICE Test LIB
Product Model	i86 Box		
HW Version	i-86-BOX_V1_3		
SW Version			
Picuture			

4 Test Envirment

<Test Environment Setup>

5 Test Method and Requirement

<test method:>

- 1. Standing wave measurement
- 2. Passive testing
- 3. Active test

6 Test Result

Standing wave measurement

Test item	2. 4G	2. 45G	2. 5G
Test result of the original device	5.5235	5.2114	6.3452
Optimized antenna results	1. 9512	1. 4863	1.8533

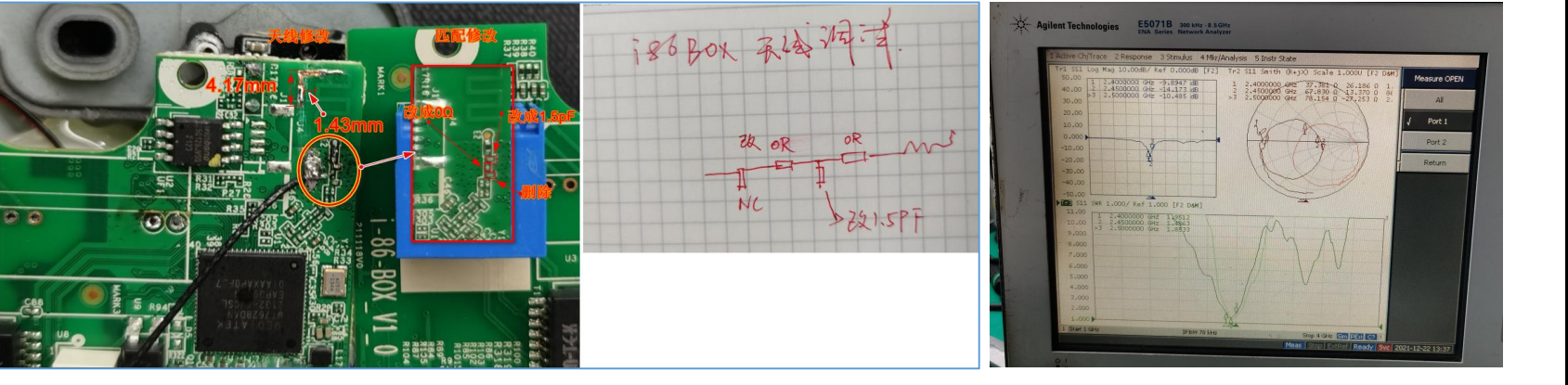
Passive testing

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Passive Test For WIFI(宽带)												Application Information			
2	Freq	Effi	Effi	Gain	Gain	DRIS	DRIS	Max	Min	Attenu	Attenu		04Version	4.95.303		
3	(MHz)	(%)	(dB)	(dB)	(dB)	(%)	(%)	(dB)	(dB)	Hor	Ver		TotalTime	4m 48s 285ms		
4	2300	12.39	-9.07	-5.08	-7.23	5.553	6.841	-5.08	-17.16	51.52	50.81		AdditionalInfor	NULL		
5	2310	11.93	-9.23	-5.43	-7.58	5.396	6.536	-5.43	-18.54	51.66	51.07					
6	2320	10.37	-9.84	-6.04	-8.19	4.699	5.667	-6.04	-20.16	51.69	51					
7	2330	10.86	-9.64	-5.85	-8	4.94	5.919	-5.85	-20.44	51.93	51.36					
8	2340	10.52	-9.78	-5.9	-8.05	4.806	5.717	-5.9	-21.89	52.03	51.4					
9	2350	10.84	-9.65	-5.84	-7.99	5.005	5.838	-5.84	-23.15	52.14	51.51					
10	2360	10.98	-9.6	-5.7	-7.85	5.11	5.866	-5.7	-22.41	52.32	51.59					
11	2370	10.3	-9.87	-6.06	-8.21	4.883	5.416	-6.06	-21.69	52.34	51.47					
12	2380	11.29	-9.47	-5.6	-7.75	5.378	5.909	-5.6	-19.83	52.49	51.65					
13	2390	12.87	-8.91	-5.13	-7.28	6.213	6.654	-5.13	-19.03	52.66	51.85					
14	2400	14.79	-8.3	-4.51	-6.66	7.118	7.676	-4.51	-18.14	52.68	51.96					
15	2410	16.65	-7.79	-4.1	-6.25	8.002	8.649	-4.1	-17.81	52.74	51.98					
16	2420	18.43	-7.35	-3.5	-5.65	8.798	9.629	-3.5	-17.45	52.85	52.03					
17	2430	20.64	-6.85	-2.79	-4.94	9.762	10.81	-2.79	-16.55	52.73	52.13					
18	2440	22.24	-6.52	-2.24	-4.39	10.469	11.825	-2.24	-16.21	52.77	52.18					
19	2450	24.93	-6.03	-1.64	-3.79	11.712	13.219	-1.64	-15.77	52.86	52.42					
20	2460	23.82	-6.23	-1.89	-4.04	11.368	12.456	-1.89	-15.21	52.87	52.3					
21	2470	22.82	-6.42	-2.2	-4.35	11.038	11.783	-2.2	-15	52.94	52.33					
22	2480	19.84	-7.02	-3.1	-5.25	9.764	10.081	-3.1	-15.53	52.94	52.19					
23	2490	18.4	-7.35	-3.07	-5.82	9.165	9.239	-3.07	-16.19	52.94	52.28					
24	2500	18.2	-7.4	-3.79	-5.94	9.141	9.059	-3.79	-15.88	52.92	52.25					
25	2510	17.62	-7.54	-4.01	-6.16	8.913	8.705	-4.01	-15.87	52.93	52.25					
26	2520	17	-7.69	-4.2	-6.35	8.649	8.356	-4.2	-15.59	52.93	52.17					
27	2530	15.68	-8.05	-4.41	-6.56	8.012	7.67	-4.41	-15.84	52.88	52.02					
28	2540	16.5	-7.83	-4.09	-6.24	8.495	8.005	-4.09	-16.05	52.9	52.07					
29	2550	17.72	-7.52	-3.53	-5.68	9.251	8.469	-3.53	-16.7	53.01	52.16					
30	2560	19.27	-7.15	-2.91	-5.06	10.168	9.1	-2.91	-17.63	53.12	52.3					
31	2570	19.75	-7.05	-2.63	-4.78	10.509	9.238	-2.63	-19.05	53.11	52.26					

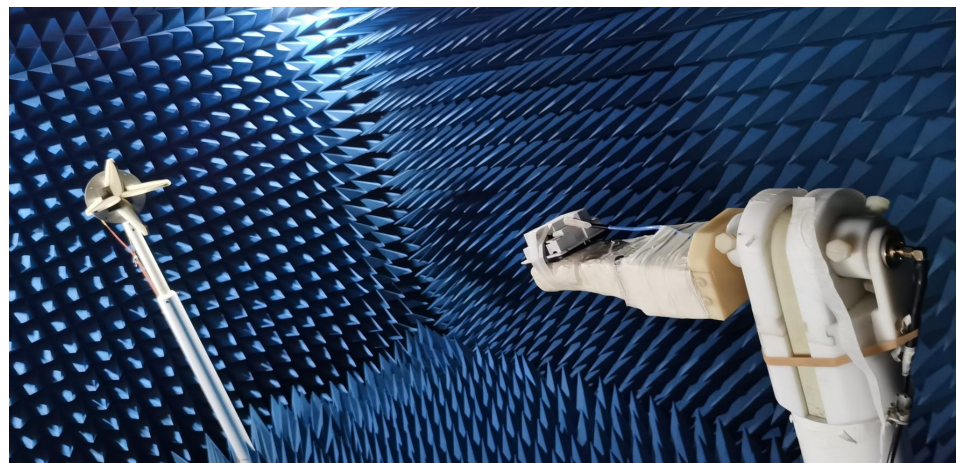
Please add the picture of test process

7.1 Test procedure

After the standing wave modification



Passive result



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
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2	Freq	Effi	Effi	Gain	Gain	DRIS	DRIS	Max	Min	Attenu	Attenu		O4Version	4.95.303		
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4	2300	12.39	-9.07	-5.08	-7.23	5.553	6.841	-5.08	-17.16	51.52	50.81		AdditionalInfor	NULL		
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7	2330	10.86	-9.64	-5.85	-8	4.94	5.919	-5.85	-20.44	51.93	51.36					
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