

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

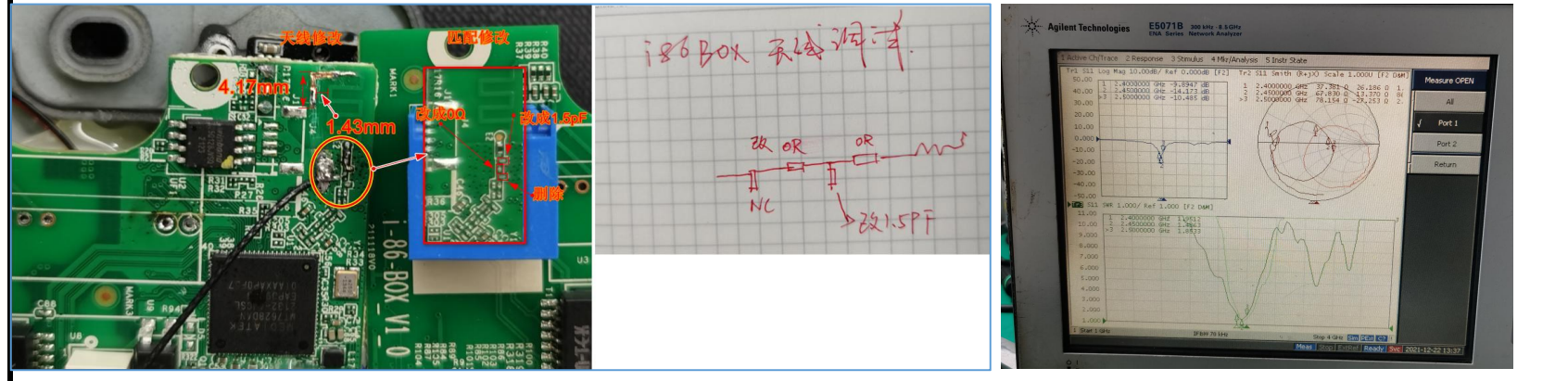
Passive testing

Passive Test For WIFI(宽带表)												Application Information			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dB)	Gain (dB)	DRIS (%)	DRIS (%)	Max (dB)	Min (dB)	Attenuat Hor	Attenuat Ver	O4Version	TotalTime	AdditionalInfor		
2300	12.39	-9.07	-5.08	-7.23	5.553	6.841	-5.08	-17.16	51.52	50.81	4.95.303	4m 48s 285ms	NULL		
2310	11.93	-9.23	-5.43	-7.58	5.396	6.536	-5.43	-18.54	51.66	51.07					
2320	10.37	-9.84	-6.04	-8.19	4.699	5.667	-6.04	-20.16	51.69	51					
2330	10.86	-9.64	-5.85	-8	4.94	5.919	-5.85	-20.94	51.93	51.36					
2340	10.52	-9.78	-5.9	-8.05	4.806	5.717	-5.9	-21.89	52.03	51.4					
2350	10.84	-9.65	-5.84	-7.99	5.005	5.838	-5.84	-23.15	52.14	51.51					
2360	10.98	-9.6	-5.7	-7.85	5.11	5.866	-5.7	-22.41	52.32	51.59					
2370	10.3	-9.87	-6.06	-8.21	4.883	5.416	-6.06	-21.69	52.34	51.47					
2380	11.29	-9.47	-5.6	-7.75	5.378	5.909	-5.6	-19.83	52.49	51.65					
2390	12.87	-8.91	-5.13	-7.28	6.213	6.654	-5.13	-19.03	52.66	51.85					
2400	14.79	-8.3	-4.51	-6.66	7.118	7.676	-4.51	-18.14	52.68	51.96					
2410	16.65	-7.79	-4.1	-6.25	8.002	8.649	-4.1	-17.81	52.74	51.98					
2420	18.43	-7.35	-3.5	-5.65	8.798	9.629	-3.5	-17.45	52.85	52.03					
2430	20.64	-6.85	-2.79	-4.94	9.762	10.81	-2.79	-16.55	52.73	52.13					
2440	22.24	-6.52	-2.24	-4.39	10.469	11.825	-2.24	-16.21	52.77	52.18					
2450	24.93	-6.03	-1.64	-3.79	11.712	13.219	-1.64	-15.77	52.86	52.42					
2460	23.82	-6.23	-1.89	-4.04	11.368	12.456	-1.89	-15.21	52.87	52.3					
2470	22.82	-6.42	-2.2	-4.35	11.038	11.783	-2.2	-15	52.94	52.33					
2480	19.84	-7.02	-3.1	-5.25	9.764	10.081	-3.1	-15.53	52.94	52.19					
2490	18.4	-7.35	-3.07	-5.82	9.165	9.239	-3.07	-16.19	52.94	52.28					
2500	18.2	-7.4	-3.79	-5.94	9.141	9.059	-3.79	-15.88	52.92	52.25					
2510	17.62	-7.54	-4.01	-6.16	8.913	8.705	-4.01	-15.87	52.93	52.25					
2520	17	-7.69	-4.2	-6.35	8.649	8.356	-4.2	-15.59	52.93	52.17					
2530	15.68	-8.05	-4.41	-6.56	8.012	7.67	-4.41	-15.84	52.88	52.02					
2540	16.5	-7.83	-4.09	-6.24	8.495	8.005	-4.09	-16.05	52.9	52.07					
2550	17.72	-7.52	-3.53	-5.68	9.251	8.469	-3.53	-16.7	53.01	52.16					
2560	19.27	-7.15	-2.91	-5.06	10.168	9.1	-2.91	-17.63	53.12	52.3					
2570	19.75	-7.05	-2.63	-4.78	10.509	9.238	-2.63	-19.05	53.11	52.26					

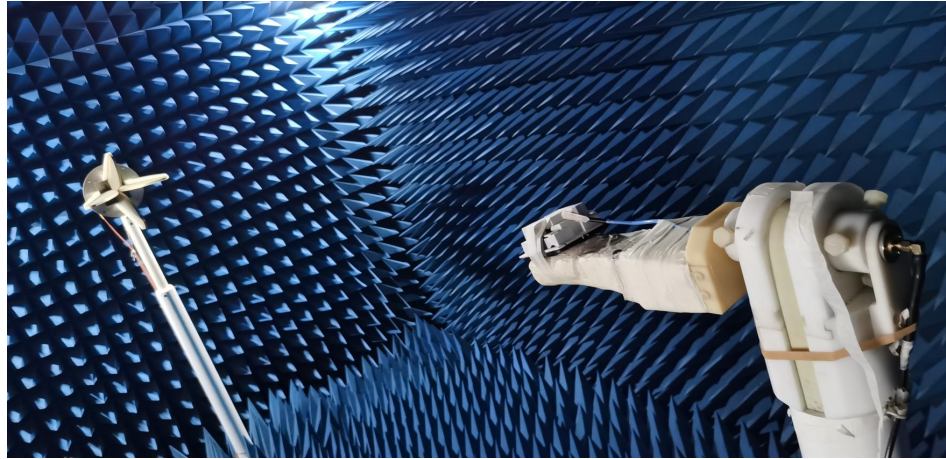
Please add the picture of test process

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
1	Passive Test For WIFI(英帝英)												Application Information			
2	Freq	Effi	Effi	Gain	Gain	UHIS	DHIS	Max	Min	Attenu	Attenu		04Version	4.95.303		
3	(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(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	10.96	-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	10.84	-2.79	-16.55	52.73	52.13					
18	2440	22.54	-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	-3.67	-5.82	9.165	9.239	-3.67	-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					
32	2580	20.78	-6.83	-2.32	-4.47	11.078	9.873	-2.32	-19.87	53.14	52.14					
平均值:1230.233889 计数:18 求和:22144.21																