

TIANLUTONG Antenna Test Report

Address: 3rd Floor, Building B, Dandan Industrial Park, Jihua Road, Bantian, Longgang District, Shenzhen, Guangdong

Customer: SHENZHENINTERTHINGS TECHNOLOGY CO.,LTD.

Project: HT198

VERSIONS:

Testing Date: 2022-5-13

Shenzhen TIANLUTONG Technology Co., Ltd.

1. The Equipment of Active Test

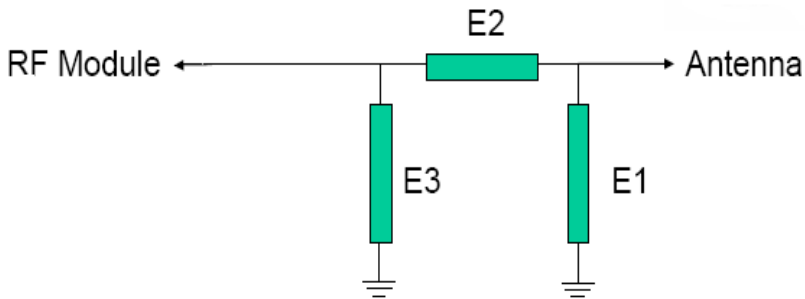
1. ETS Chamber 7×4×3 (m)

2. 8960

3. Network analyzer-R&S ZVL



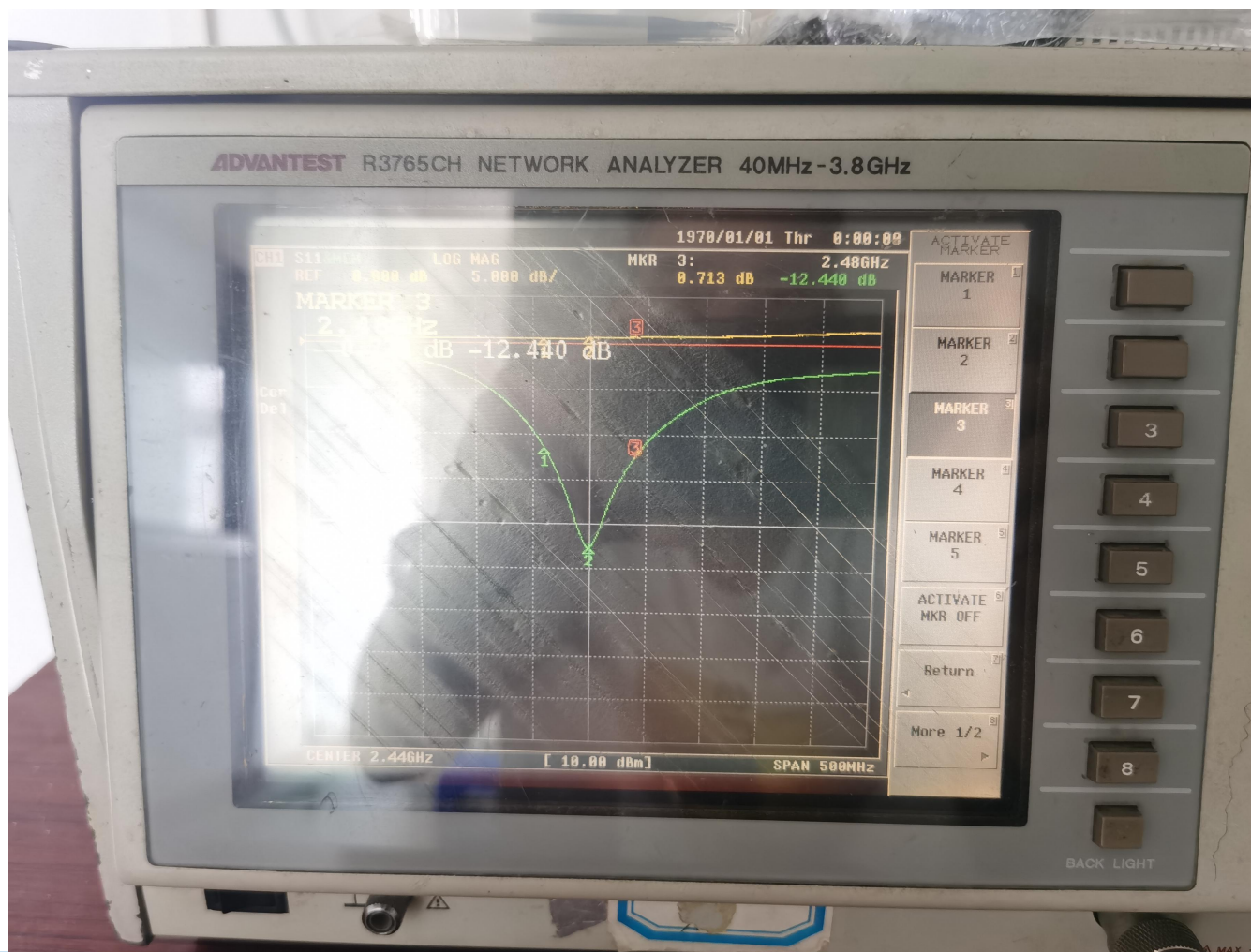
2. Matching Circuit



Element	
E1(0402)	-
E2(0402)	-
E3(0402)	-
MAX GAIN	-0.57 dBi

Note: No change to the original match!

3. WIFI antenna passive test data





4.WIFI antenna gain efficiency

Passive Test For 芯片2											Application Information	
Freq (MHz)	Eff1 (%)	Eff1 (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenuat Hor	Attenuat Ver	04Version	4.99.303
2350	29.74	-5.27	-1.79	-3.94	14.971	14.773	-1.79	-25.28	52.36	52.29	TotalTime	9m 6s 160ms
2360	30.87	-5.15	-1.71	-3.86	15.253	15.319	-1.71	-24.34	52.65	52.88	AdditionalInfor	NULL
2370	30.65	-5.14	-1.64	-3.79	15.142	15.511	-1.64	-21.93	52.79	52.86		
2380	32.44	-4.89	-1.26	-3.41	15.933	16.503	-1.26	-24.09	52.88	52.9		
2390	33.71	-4.72	-0.92	-3.07	16.535	17.179	-0.92	-24.52	52.77	52.84		
2400	34.16	-4.66	-0.94	-3.09	16.525	17.634	-0.94	-23.17	52.73	52.77		
2410	33.19	-4.79	-0.92	-3.07	16.015	17.171	-0.92	-21.4	52.6	52.63		
2420	32.74	-4.85	-0.95	-3.1	15.51	17.23	-0.95	-19.93	52.66	52.61		
2430	32.64	-4.86	-1.01	-3.16	15.283	17.352	-1.01	-18	52.74	52.72		
2440	34.72	-4.59	-0.77	-2.92	15.966	18.756	-0.77	-16.09	53.11	53.02		
2450	36.07	-4.43	-0.63	-2.78	16.261	19.806	-0.63	-14.68	53.33	53.1		
2460	35.71	-4.47	-0.66	-2.81	15.857	19.95	-0.66	-13.5	53.22	53.17		
2470	34.93	-4.57	-0.78	-2.93	15.154	19.774	-0.78	-13.95	53.2	52.97		
2480	34.8	-4.58	-0.82	-2.97	15.103	19.7	-0.82	-15.03	53.25	53.11		
2490	35.94	-4.44	-0.57	-2.72	15.51	20.43	-0.57	-16.61	53.61	53.43		
2500	34.89	-4.57	-0.72	-2.87	15.205	19.689	-0.72	-17.68	53.73	53.55		
2510	31.56	-5.01	-1.07	-3.22	13.682	17.878	-1.07	-17.07	53.23	53.16		
2520	30.96	-5.09	-1.15	-3.3	13.305	17.659	-1.15	-15.47	52.96	52.77		
2530	29.78	-5.26	-1.3	-3.45	12.761	17.017	-1.3	-17.11	52.7	52.72		
2540	28.94	-5.38	-1.39	-3.54	12.162	16.778	-1.39	-18.34	52.73	52.61		
2550	29.18	-5.35	-1.28	-3.43	12.236	16.949	-1.28	-19.05	52.77	53.13		

2350.00MHz - 2550.00MHz Gain

5. Dimensional drawing

