

天线测试报告

Antenna Test Report

T2N

Date: 2026. 01. 13
REV :V1. 2

天线信息

Antenna information

Specification	
Characteristics	Specifications
Working Band	2.4G WiFi/BT; 5G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	42%@2.4G; 47%@5G
Peak Gain	1.3dBi@2.4G; 2.7dBi@5G
Manufacturer	Shen Zhen Xing Yuan Chuang Technology Co., Ltd

测试信息

Test information

		Antenna band	Antenna state	Antenna form	Match changes	Note
Main ANT	2G					
	3G					
	4G					
AUX ANT	BT/WIFI	2.4/5G	FPC	PIFA	NO	
	GPS					
	DIV					

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	15.30	CH1 11Mbps	-77.14
	2437	CH6 11Mbps	15.35	CH6 11Mbps	-82.47
	2467	CH11 11Mbps	15.23	CH11 11Mbps	-83.85
802.11a		TRP		TIS	
	5180	CH36 6Mbps	9.97	CH36 54Mbps	-71.97
	5300	CH60 6Mbps	9.02	CH60 54Mbps	-70.85
	5805	CH161 6Mbps	11.83	CH161 54Mbps	-70.03

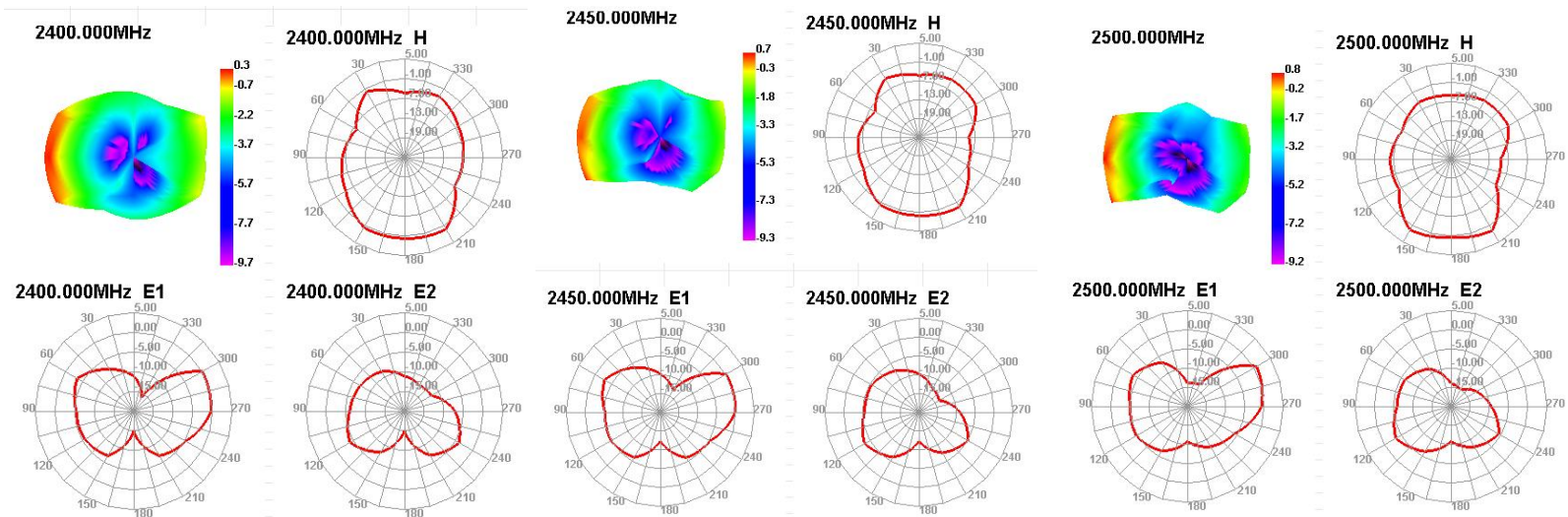
无源测试数据
Passive test data

ANT1 GAIN&Efficiency-WIFI2.4&BT

Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	36.51	-4.38	0.25	-1.9	16.429	20.083	0.25	-22.9	4.63	30	45.78	46.01
2410	38.53	-4.14	0.37	-1.78	17.331	21.197	0.37	-20.48	4.51	30	46.01	46.29
2420	36.56	-4.37	0.11	-2.04	16.464	20.094	0.11	-19.11	4.48	30	45.73	46
2430	35.72	-4.47	-0.04	-2.19	16.085	19.64	-0.04	-18.17	4.43	30	46.01	46.36
2440	38.16	-4.18	0.24	-1.91	17.171	20.992	0.24	-17.77	4.43	30	46.12	46.48
2450	38.64	-4.13	0.67	-1.48	17.562	21.077	0.67	-17.81	4.8	30	46.12	46.54
2460	41.18	-3.85	1.15	-1	18.851	22.325	1.15	-18.47	5	30	46.14	46.52
2470	40.99	-3.87	1.2	-0.95	18.741	22.244	1.2	-18.41	5.08	30	46.4	46.8
2480	41.93	-3.77	1.3	-0.85	19.09	22.845	1.3	-19.15	5.07	30	46.26	46.64
2490	42.07	-3.76	1.33	-0.82	19.207	22.862	1.33	-18.52	5.09	30	46.51	46.91
2500	37.04	-4.31	0.83	-1.32	17.018	20.021	0.83	-17.56	5.15	30	46.47	46.86

无源测试数据 Passive test data

ANT1 Direction of figure(2. 4&BT)



无源测试数据

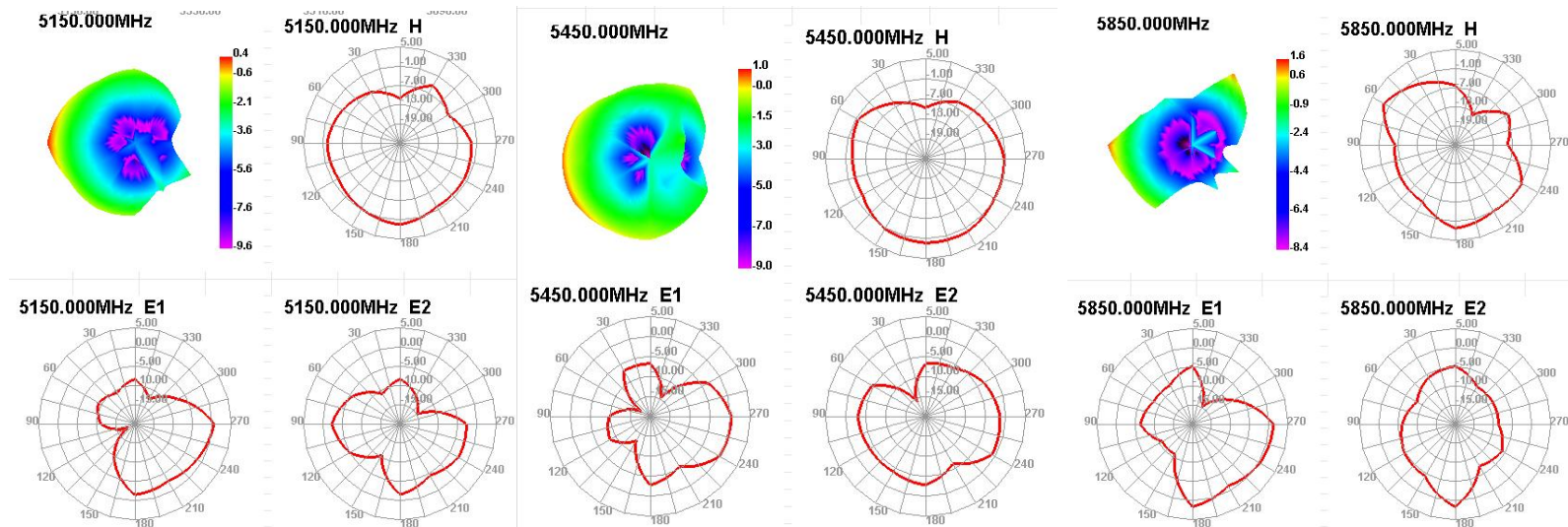
Passive test data

ANT1 GAIN&Efficiency-WIFI 5G

Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	34.52	-5.15	0.45	-1.7	13.515	21.01	0.45	-18.01	5.6	30	49.82	49.4
5170	38.11	-4.67	0.91	-1.24	14.888	23.218	0.91	-19.42	5.58	30	50.13	49.77
5190	38.77	-4.59	0.76	-1.39	15.418	23.352	0.76	-18.6	5.35	30	50.42	49.95
5210	40.13	-3.97	1.29	-0.86	15.859	24.269	1.29	-20.44	5.26	30	50.88	50.49
5230	34.96	-4.56	0.27	-1.88	13.795	21.162	0.27	-24.09	4.84	30	50.42	50.08
5250	43.8	-3.59	1.26	-0.89	17.086	26.712	1.26	-18.52	4.85	30	51.02	50.72
5270	38.36	-4.16	0.63	-1.52	15.207	23.155	0.63	-17.63	4.79	30	50.85	50.6
5290	48.27	-3.16	1.43	-0.72	19.438	28.83	1.43	-15.8	4.59	30	51.34	51.12
5310	36.35	-4.39	0.25	-1.9	14.653	21.702	0.25	-16.78	4.65	30	50.44	50.36
5330	39.96	-3.98	0.79	-1.36	16.056	23.906	0.79	-16.9	4.77	30	51.08	51.01
5350	40.47	-3.93	0.95	-1.2	16.193	24.272	0.95	-19.36	4.88	30	51.02	51.01
5370	39.91	-3.99	1.01	-1.14	16.184	23.722	1.01	-20.09	5	60	50.91	50.95
5390	35.4	-4.51	0.82	-1.33	14.279	21.121	0.82	-19.76	5.33	60	50.46	50.43
5410	41.59	-3.81	1.38	-0.77	16.81	24.776	1.38	-17.89	5.19	30	51.18	51.09
5430	39.55	-4.03	1.17	-0.98	15.502	24.051	1.17	-20.52	5.2	30	50.69	50.7
5450	40.66	-3.91	0.99	-1.16	15.74	24.925	0.99	-21.65	4.9	30	50.71	50.85
5470	40.45	-3.93	0.82	-1.33	15.376	25.076	0.82	-15.68	4.76	30	50.93	50.83
5490	40.35	-3.94	0.88	-1.27	15.229	25.119	0.88	-14.36	4.82	30	50.92	50.79
5510	42	-3.77	1.22	-0.93	15.761	26.242	1.22	-15.88	4.99	30	51.18	51.16
5530	41.42	-3.83	1.39	-0.76	15.32	26.102	1.39	-17.81	5.21	30	51.44	51.3
5550	47.07	-3.27	2.28	0.13	17.135	29.939	2.28	-15.11	5.55	30	51.89	51.76
5570	41.35	-3.84	2.02	-0.13	14.865	26.486	2.02	-14.35	5.86	30	51.42	51.33
5590	40.25	-3.95	2.11	-0.04	14.298	25.951	2.11	-15.82	6.06	30	51.71	51.76
5610	38.32	-4.17	2	-0.15	13.422	24.894	2	-16.14	6.16	30	51.17	51.22
5630	41.05	-3.87	2.27	0.12	14.42	26.631	2.27	-17.14	6.14	30	51.78	51.77
5650	40.24	-3.95	2.02	-0.13	14.081	26.158	2.02	-17.06	5.98	30	51.47	51.55
5670	47.49	-3.23	2.71	0.56	16.828	30.664	2.71	-13.47	5.94	30	52.12	52.28
5690	43.87	-3.58	2.43	0.28	15.782	28.083	2.43	-14.59	6.01	30	52.12	52.25
5710	44.86	-3.48	2.48	0.33	16.146	28.716	2.48	-14.99	5.96	30	51.95	52.05
5730	38.46	-4.15	2	-0.15	13.661	24.796	2	-17.95	6.15	30	51.59	51.69
5750	36.57	-5.01	1.41	-0.74	14.29	22.279	1.41	-23.59	6.42	30	51.12	51.15
5770	36.64	-5	1.58	-0.57	14.372	22.267	1.58	-22.62	6.57	30	51.02	51.06
5790	35.98	-5.09	1.18	-0.97	14.112	21.867	1.18	-20.54	6.27	30	51.08	51.16
5810	37.99	-4.82	1.15	-1	14.576	23.417	1.15	-21.58	5.97	30	51.36	51.43
5830	39.52	-4.62	1.39	-0.76	15.253	24.262	1.39	-17.82	6.01	90	51.65	51.66
5850	35.01	-4.56	1.6	-0.55	12.747	22.265	1.6	-14.74	6.16	90	51.88	52.05

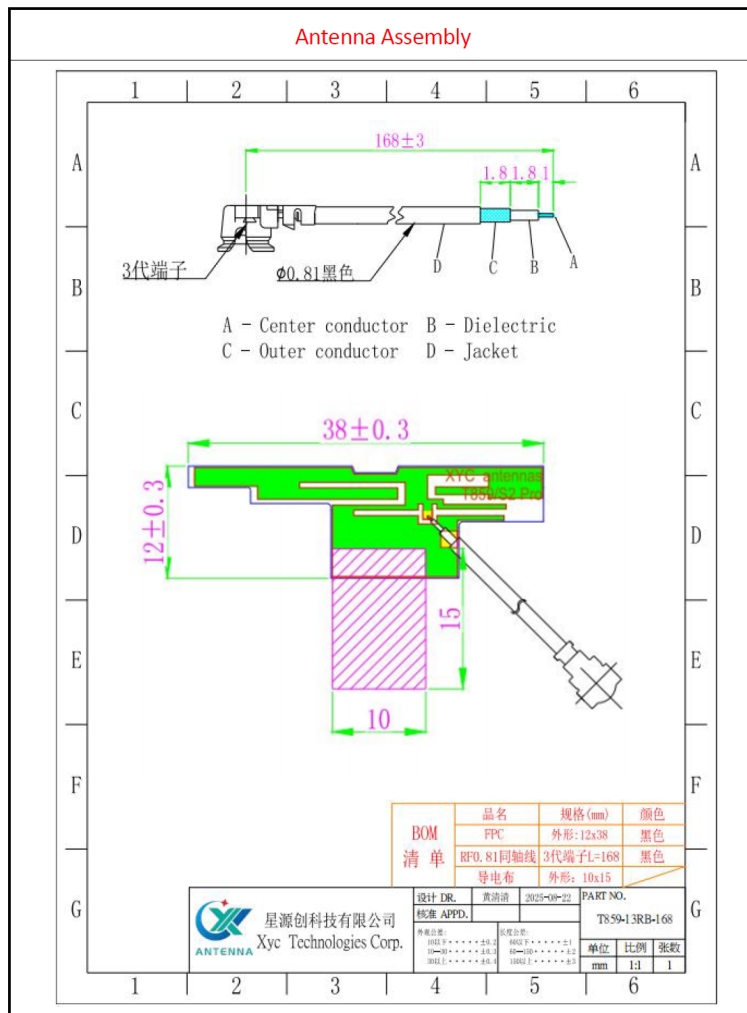
无源测试数据 Passive test data

ANT1 Direction of figure(5G)



天线装配

Antenna layout



合作共赢

