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深圳市云希科技有限公司
ShenZhen Yunxi Technology Co.,Ltd.

Antenna test Report

Customer: 锐铭鑫

Project Name:A-M114

RF Engineer:Wu Gong

Testing Date:2023-8-18

云希科技射频空间

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1.Project brief

NO.	ITEMS	DETAILS
1	工作频段 Operating band	WIFI/BT
2	频率范围 Frequency range	2400-6000MHz
3	天线类型 Antenna Type	PIFA
4	天线材质及实现形式 Antenna material and implementation form	The antenna is attached to the side shell using FPC
5	天线料号 Antenna part number 天线料号 Antenna part number	
6	输入阻抗 Input Impedance	50（Ω）
7	增益 Gain	
	RF	吴工
	ME	邹工

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Test system, test equipment and Testing environment

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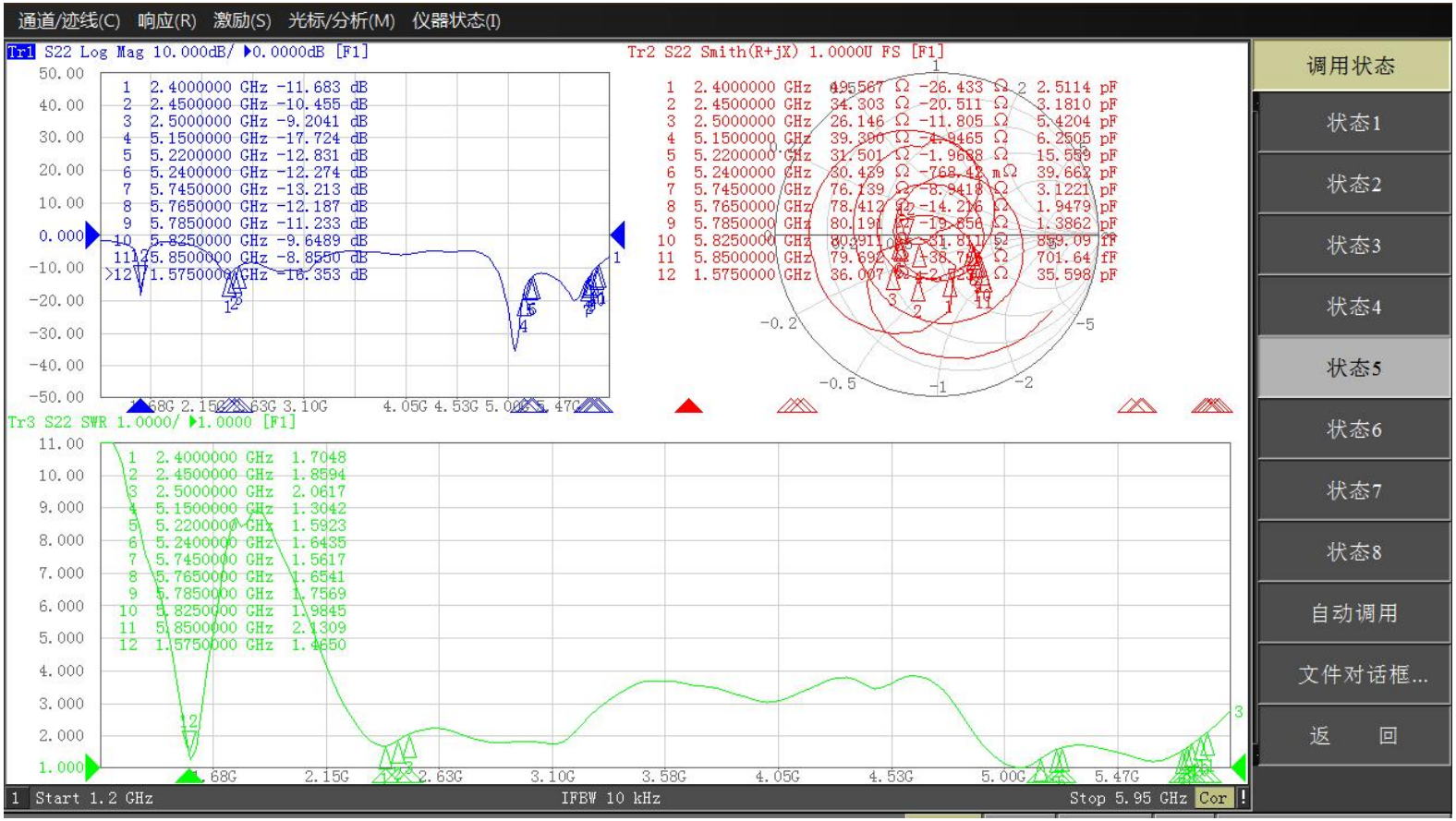
Antenna Standing Wave Diagram



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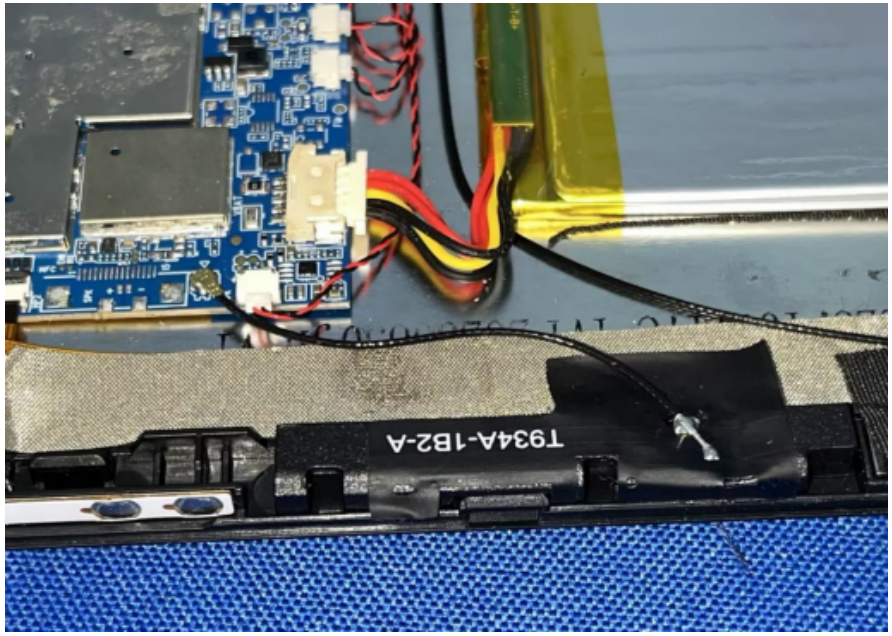
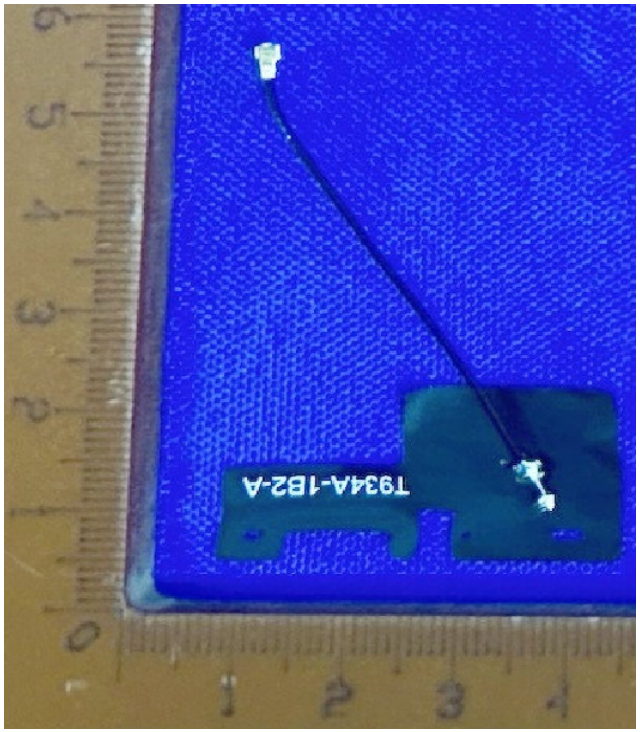
Antenna assembly environment processing diagram





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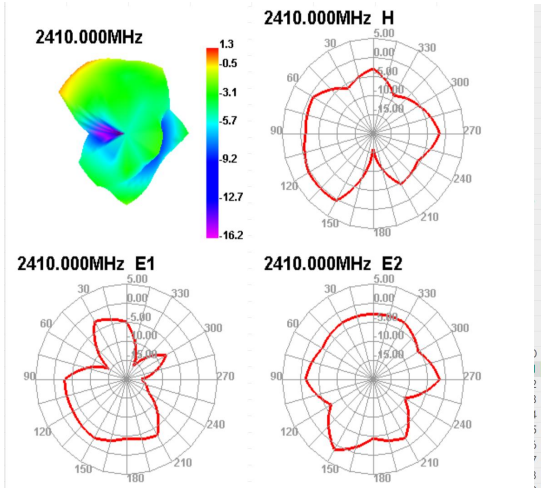
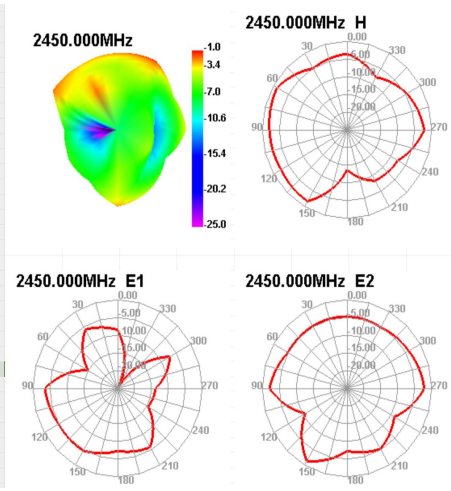
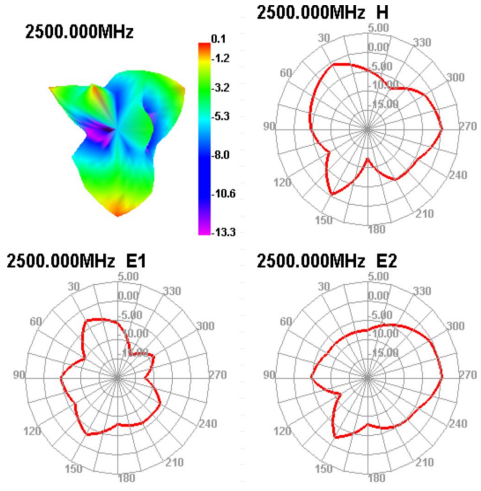
Antenna efficiency and gain

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	44.93	-4.57	0.4	-1.75	16.373	18.56	0.4	-16.76	48.17	48.27
2410	42.92	-3.67	1.3	-0.85	20.052	22.866	1.3	-16.18	48.82	48.98
2420	47.66	-3.22	1.68	-0.47	22.561	25.098	1.68	-17.84	49.21	49.73
2430	44.87	-4.58	0.15	-2	16.467	18.406	0.15	-21.27	47.85	48.18
2440	41.15	-5.07	-0.68	-2.83	14.636	16.514	-0.68	-23.83	47.45	47.61
2450	39.96	-5.23	-1.02	-3.17	14.345	15.614	-1.02	-25.04	47.52	47.61
2460	45.04	-3.46	0.88	-1.27	22.004	23.033	0.88	-21.68	49.2	49.47
2470	39.12	-4.42	-0.17	-2.32	17.837	18.287	-0.17	-19.84	48.51	48.69
2480	37.46	-5.61	-1.14	-3.29	13.624	13.838	-1.14	-18.08	47.62	47.62
2490	39.77	-5.72	-1.47	-3.62	13.413	13.358	-1.47	-15.92	47.76	47.65
2500	40.96	-4.44	0.13	-2.02	17.758	18.2	0.13	-13.34	48.93	48.83







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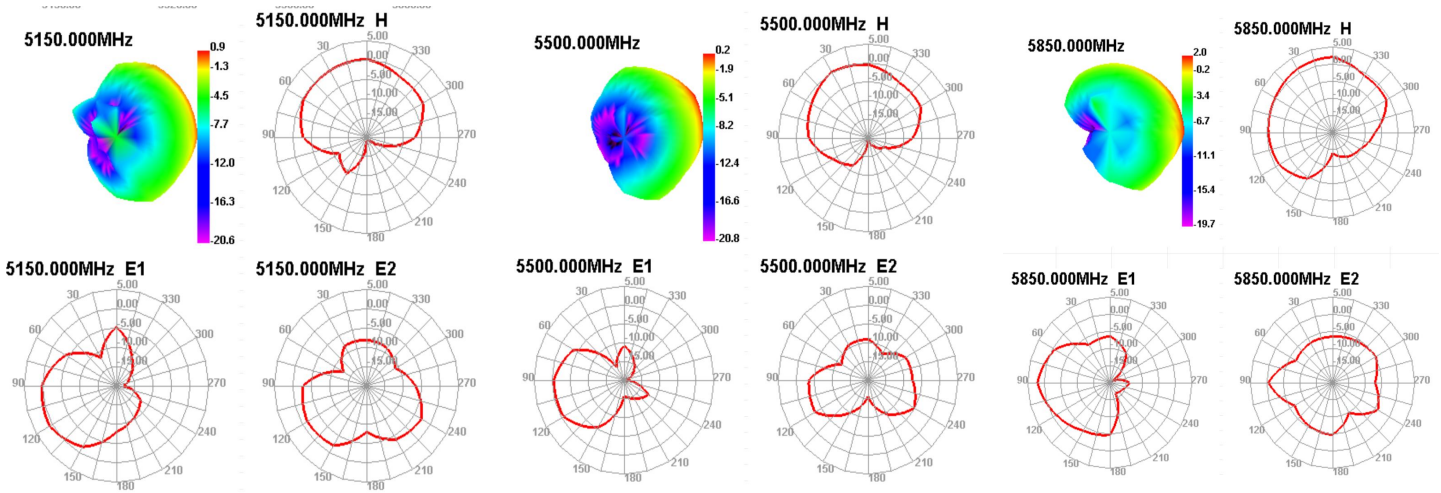
Antenna efficiency and gain

Passive Test For WIFI5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	42.41	-4.89	0.86	-1.29	10.736	21.673	0.86	-20.56	58.72	58.81
5220	39.4	-5.32	0.47	-1.68	9.955	19.444	0.47	-29.27	58.8	58.71
5290	38.09	-5.51	0.57	-1.58	9.654	18.437	0.57	-28.74	58.78	59.21
5360	46.31	-4.4	1.54	-0.61	13.18	23.133	1.54	-20.48	59.21	59.5
5430	43.79	-6.24	0.12	-2.03	9.243	14.552	0.12	-19.97	57.23	57.98
5500	42.54	-6.47	0.17	-1.98	9.468	13.076	0.17	-20.77	58.2	59.03
5570	49.45	-5.31	1.2	-0.95	13.132	16.317	1.2	-19.29	60.39	61.24
5640	40.13	-6.96	-0.46	-2.61	9.242	10.89	-0.46	-23.24	60.05	60.8
5710	36.61	-5.75	0.44	-1.71	12.152	14.454	0.44	-26.96	60.39	61.3
5780	43.53	-4.75	1.89	-0.26	15.282	18.251	1.89	-23.29	60.92	61.62
5850	46.24	-4.41	2	-0.15	17.349	18.893	2	-19.75	62.18	63.1



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Note: If there are any unclear or questionable locations regarding this project, please contact me promptly