

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	Newland
	CS P/N(客户机种)	N750 SOC
	PART NAME(品名)	WIFI
	FREQUENCY(频率)	2400-2500MHz, 5150-5850MHz。
	ZTX NO.(物料编号)	E.01.00193
	DATE(日期)	2025-10-18



福州中天迅通信技术有限公司

ZHONGTIAN XUN Communication Technology Co.,Ltd.

Fuzhou Address: Building 45, Unit SC02, 2nd Floor, Jinshan Industrial Zone,
Cangshan District, Fuzhou City, Fujian Province

ANTENNA SPECIFICATION

CUS P/N : N750 SOC WIFI

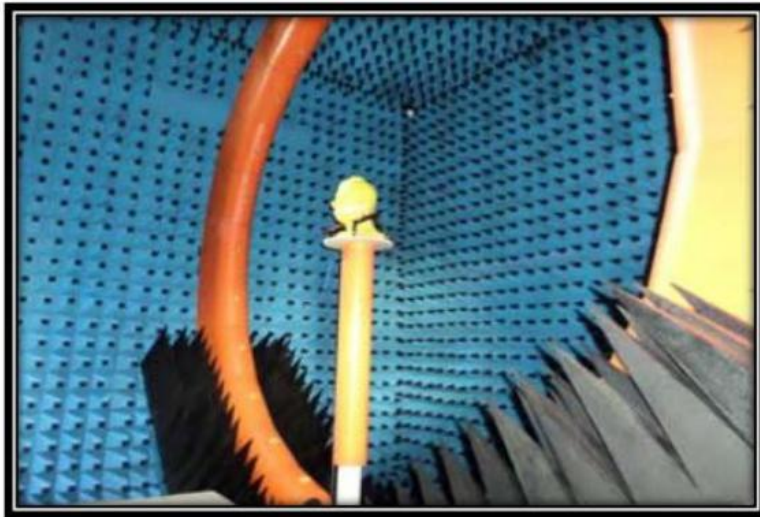
ApplicationDate:Oct,18,2025

Rev: R:A1

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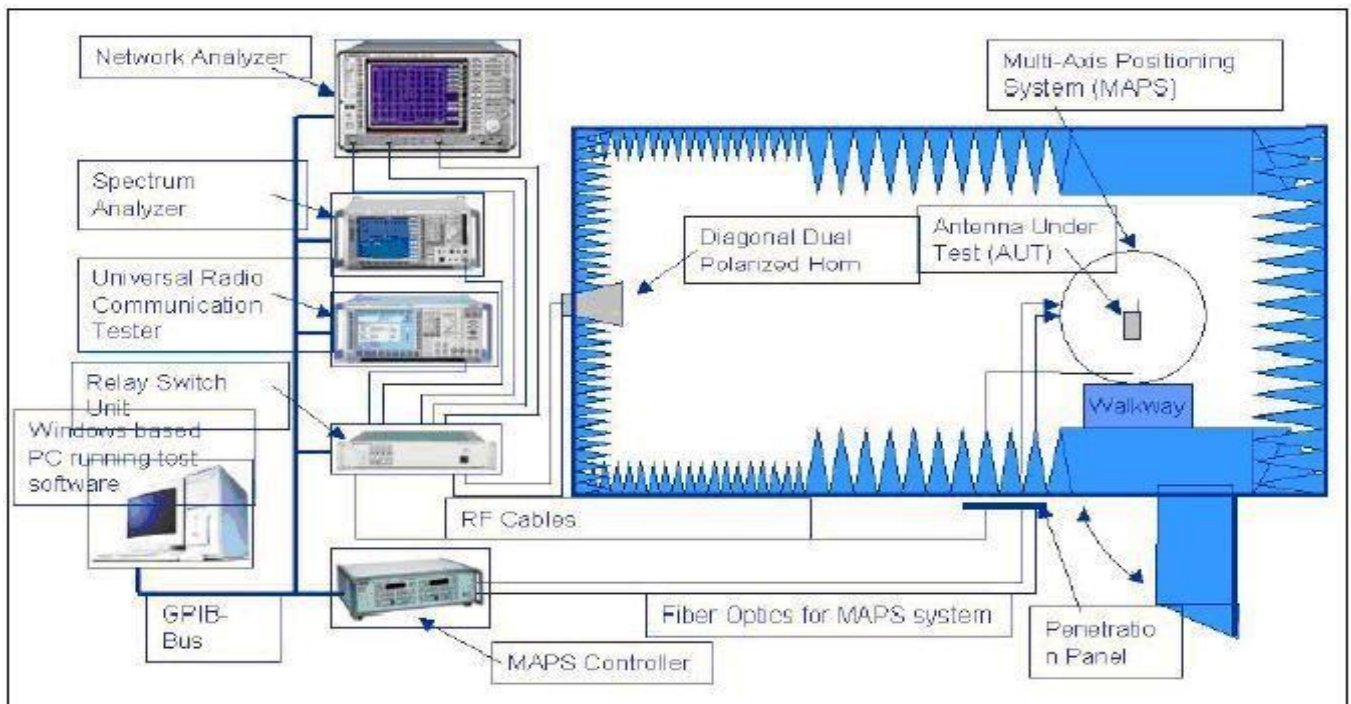
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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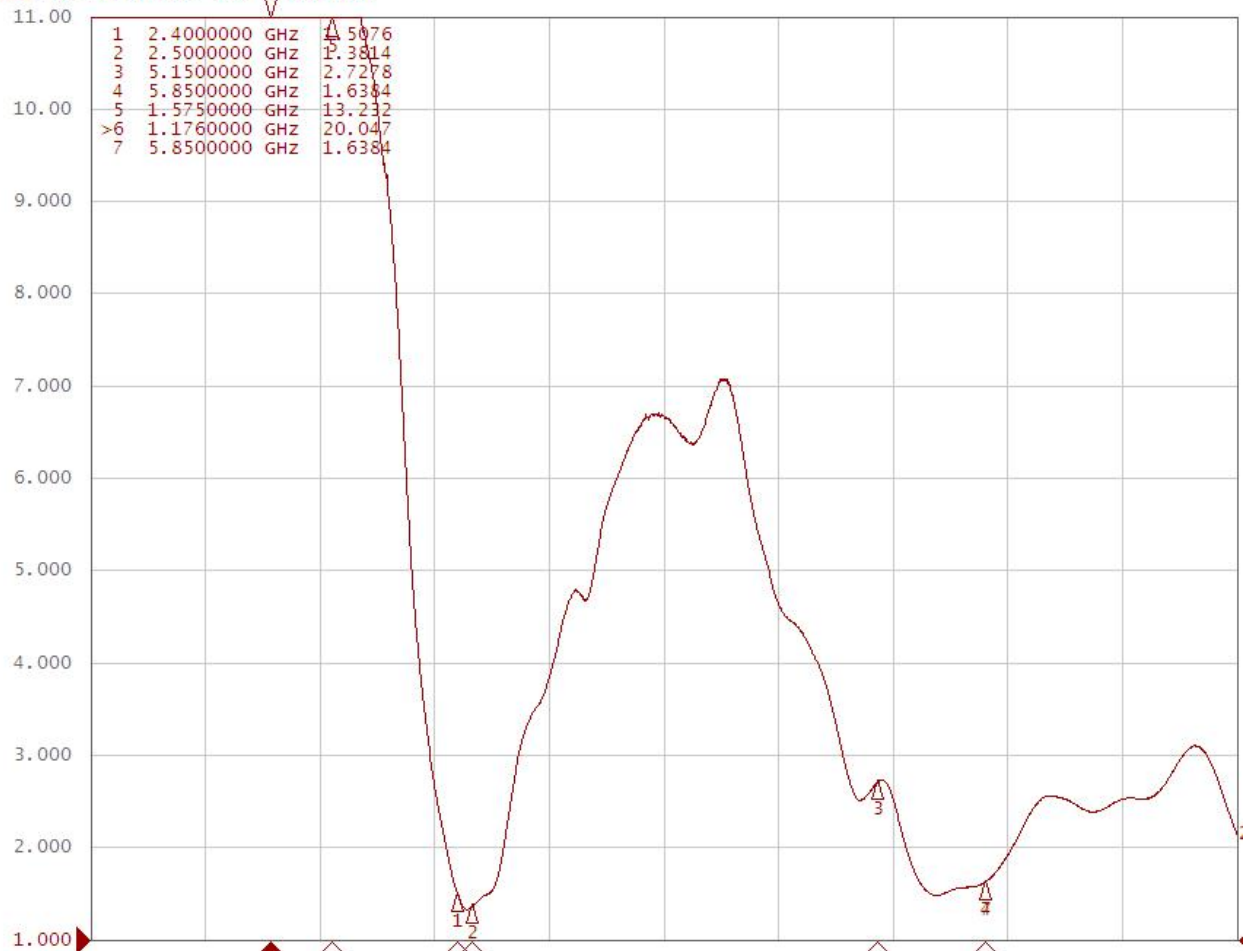
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2.Antenna test data

2-1 VSWR

► tr2 S11 SWR 1.000/ Ref 5.000 [F1]



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2-2 Antenna passive test

chNo	Freq (MHz)	Gain(dBi)	Efficiency_Pcent (%)
16	2400	-3.37584	18.0521
17	2410	-3.42975	18.08483
18	2420	-3.75751	18.5964
19	2430	-3.91903	18.46129
20	2440	-3.98484	18.01517
21	2450	-4.08183	18.22143
22	2460	-4.1755	18.45465
23	2470	-4.29451	19.29967
24	2480	-4.41976	19.01302
25	2490	-4.46392	18.11079
26	2500	-4.57466	18.11341
27	5150	-4.66253	20.86134
28	5200	-4.16379	21.47515
29	5250	-3.29883	22.24674
30	5300	-3.05609	24.37082
31	5350	-1.67847	25.14332



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32	5400	-0.9343	26.23635
33	5450	-0.25242	29.27347
34	5500	-0.69228	23.05215
35	5550	0.289052	27.42024
36	5600	-0.41922	25.26706
37	5650	-0.91257	28.97197
38	5700	-1.19217	29.97832
39	5750	-0.27927	28.52719
40	5800	-1.02102	27.83487
41	5850	-0.10336	33.1027



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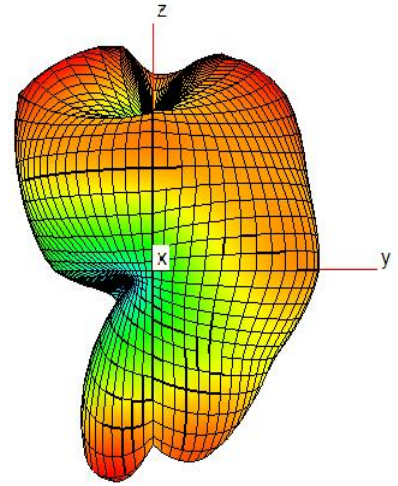
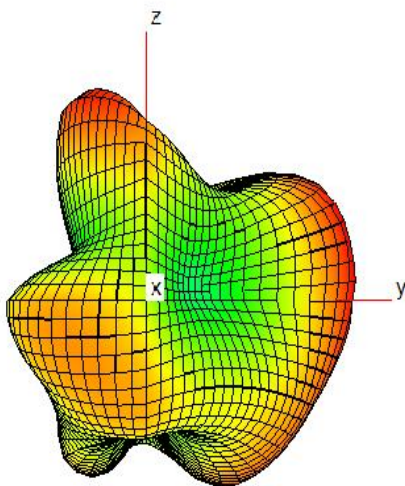
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2-3 3D radiation drawing

2450MHz

5500MHz



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2-4 Active test data

频段 Frequency	参数\信道 Parameter/Channel	1	7	13
WIFI-11B	TRP(dBm)	9.02	10.01	9.53
	TIS(dBm)	-69.18	-71.61	-72.88
频段 Frequency	参数\信道 Parameter/Channel	1	7	13
WIFI-11G	TRP(dBm)	8.74	9.41	9.28
	TIS(dBm)	-57.69	-58.68	-58.65
频段 Frequency	参数\信道 Parameter/Channel	1	7	13
WIFI-11N	TRP(dBm)	8.84	9.63	9.61
	TIS(dBm)	-53.66	-54.94	-55.04
频段 Frequency	参数\信道 Parameter/Channel	36	64	149
WIFI-11A	TRP(dBm)	11.61	11.52	11.08
	TIS(dBm)	-57.28	-65.40	-63.25
频段 Frequency	参数\信道 Parameter/Channel	157	165	
WIFI-11AC	TRP(dBm)	11.02	11.40	
	TIS(dBm)	-57.39	-63.06	



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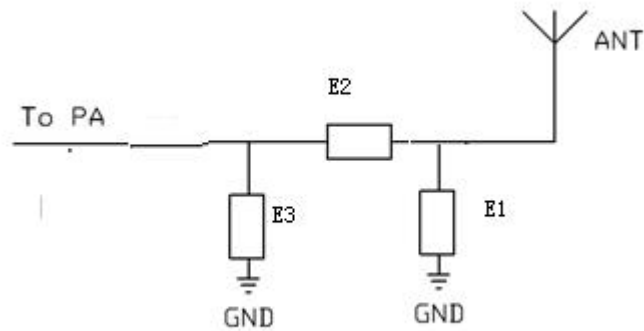
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2-5 Matching circuit



匹配说明 Matching instructions	
E1	NC
E2	1.5pf
E3	NC



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2-6 Environment treatment



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3. Mechanical Specification

