



深圳市美师傅科技有限公司

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NC8I-蓝牙陶瓷天线测试报告

Antenna Test Report

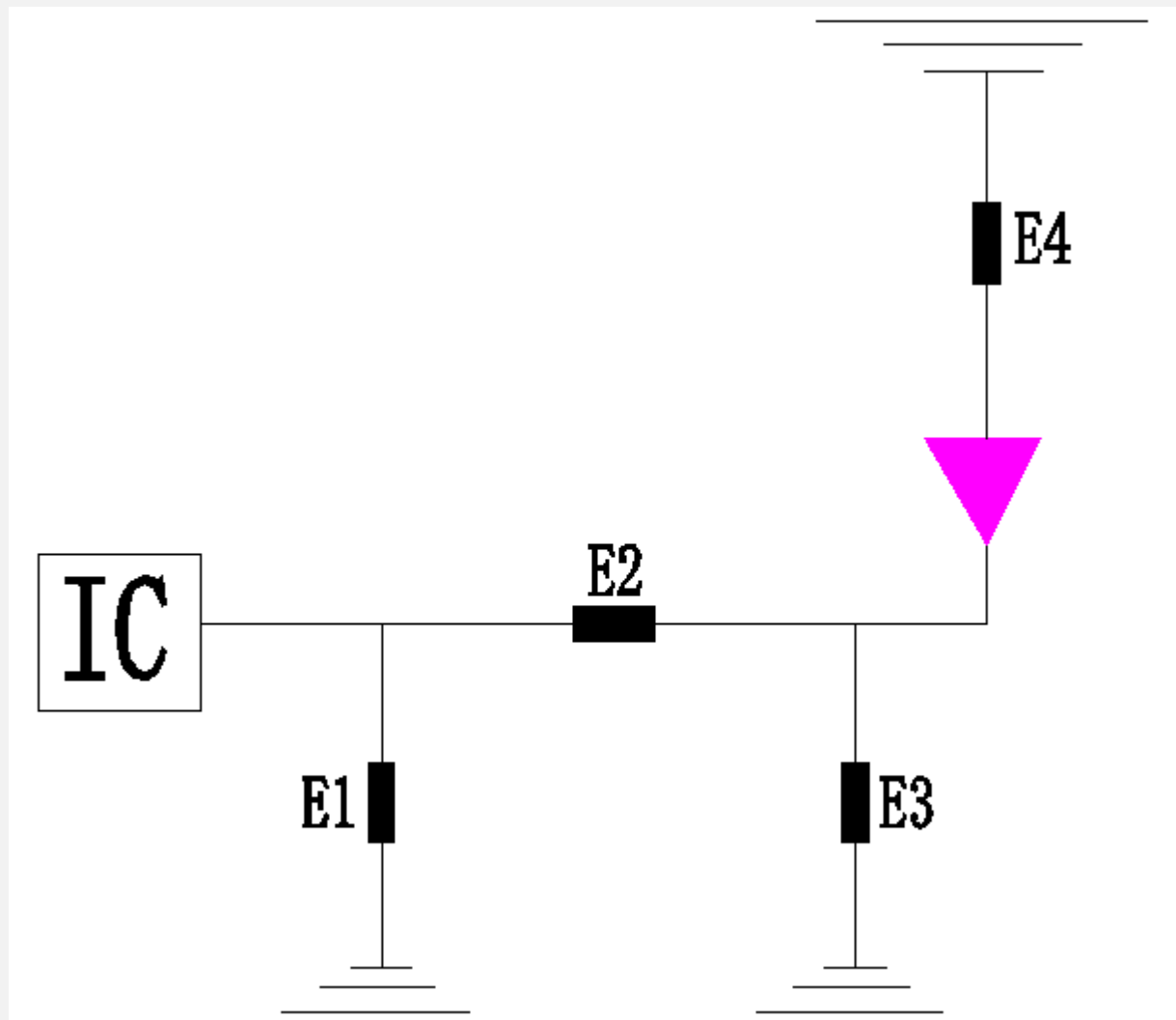
◆ 日期：2025年07月21日



客户	美师傅	项目名	NC8T
频段	2400MHZ-2500MHZ	天线工程：	伍根生
日期	2025/07/21	联系电话：	13590275131



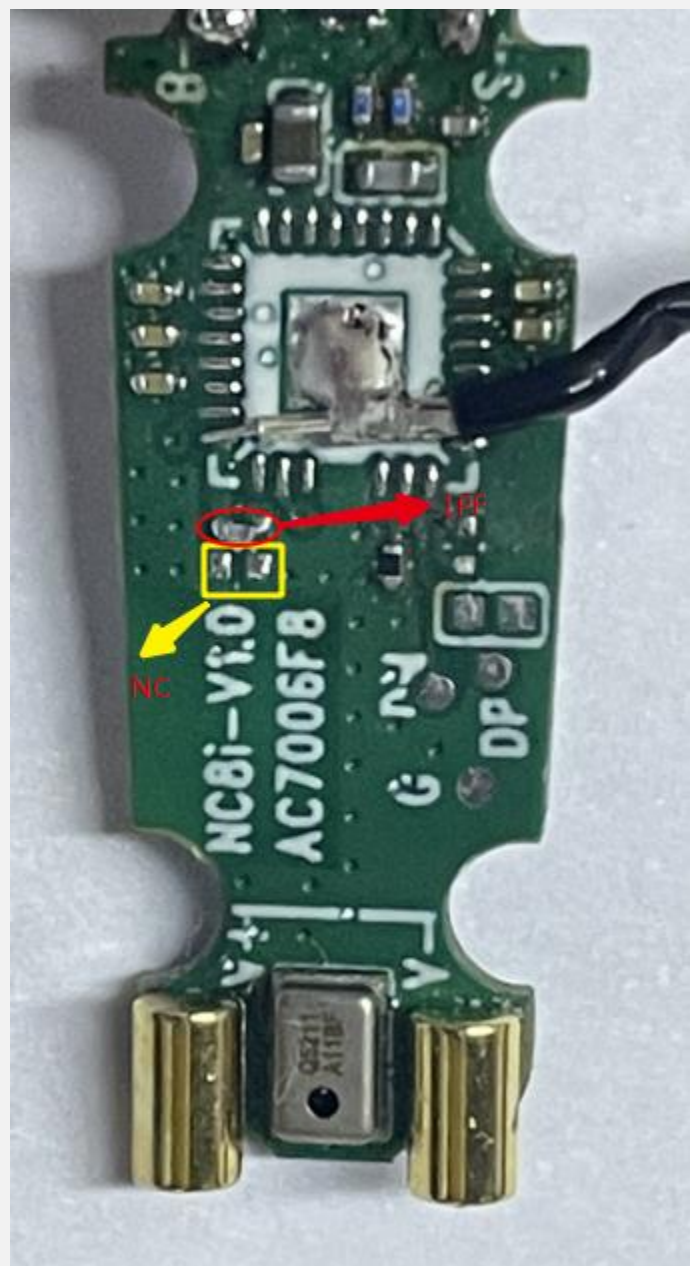
L/R匹配电路图：



E01	1 pf
E02	无
E03	N/C
E04	2NH

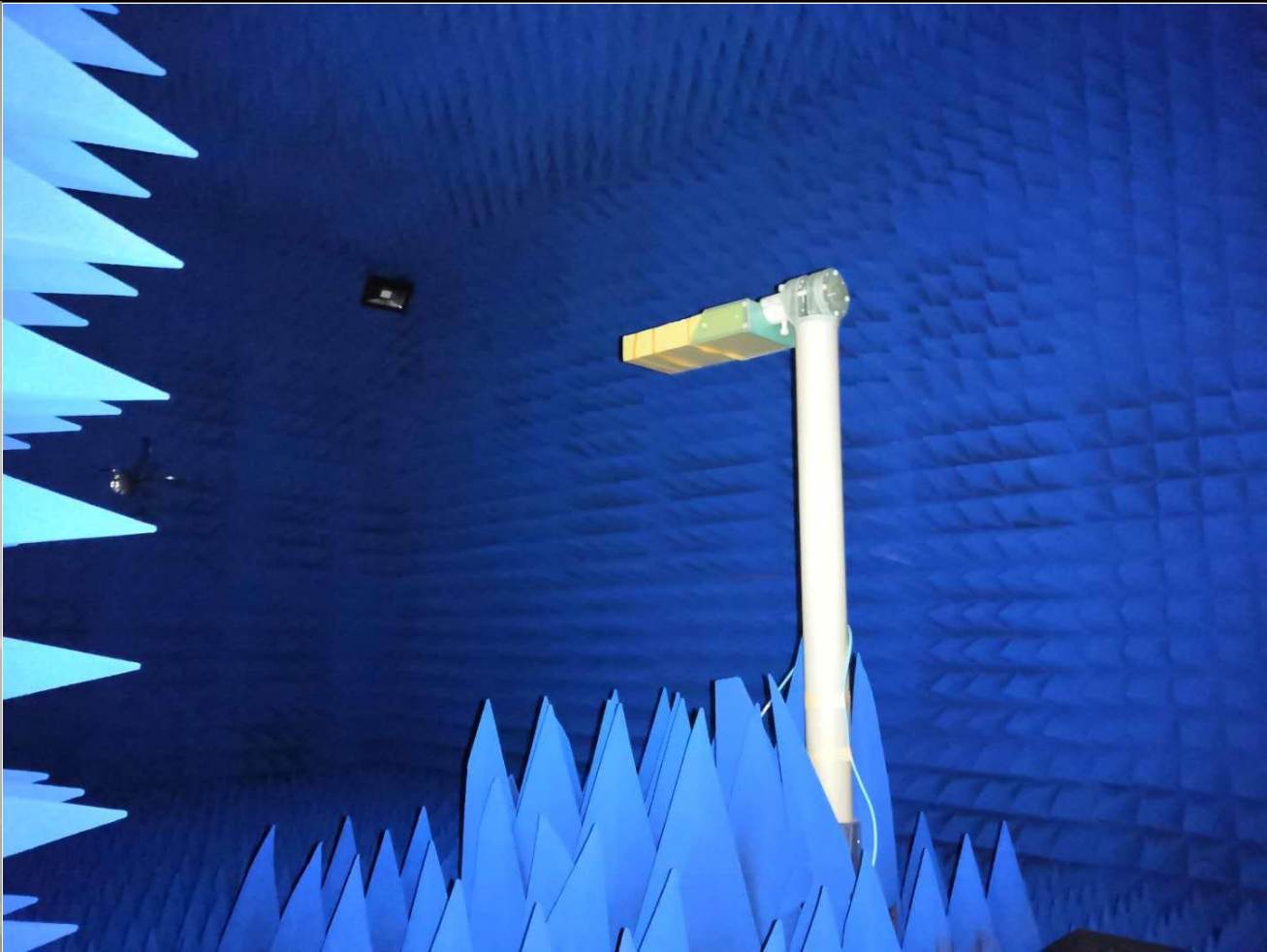
天线型号2012F245X5

L/R匹配电路图：



1.测试工具

矢量网络分析仪&综测仪	Agilent Technologies E5071B & R&S CMW500
暗室	Atenlab M3
测试工程师	邓鑫
温度	25℃
湿度	65%（RH）



天线回波损耗及驻波比

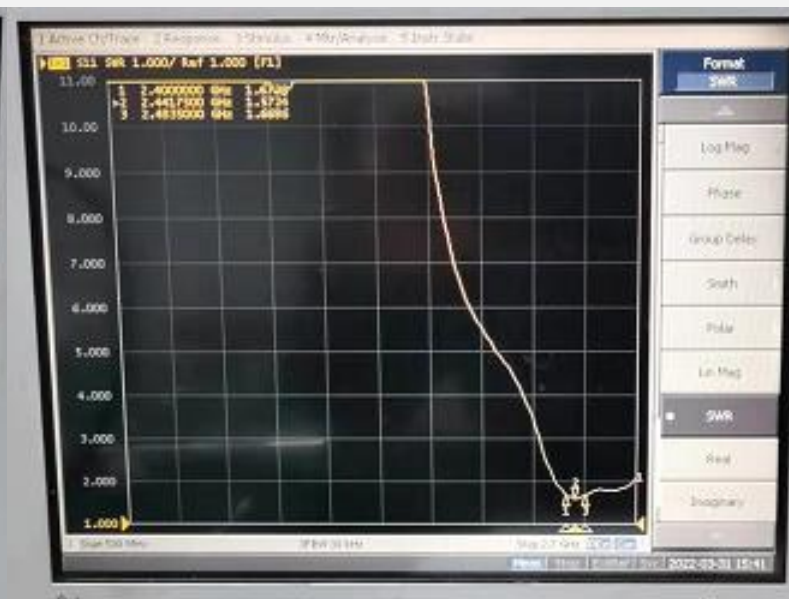
Li Tongchuang ANT S11 parameter Summary

Band	2400–2500 (MHz)			
	2400	2450	2500	
R. L (dB)	-11	-13	-12	
VSWR	1.6	1.5	1.6	

LOG



VSWR

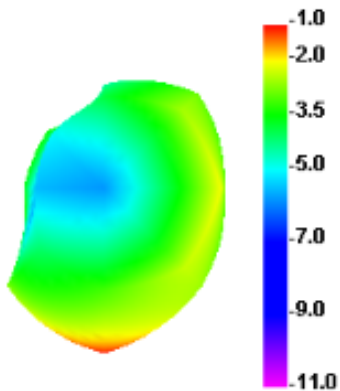




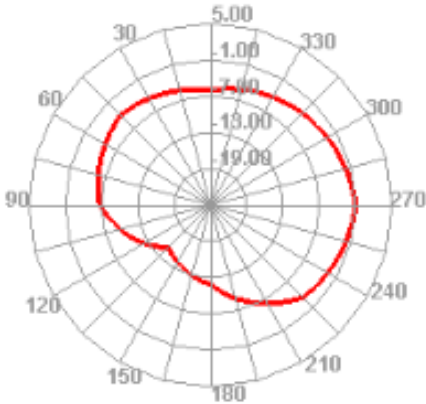
L/效率与增益

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	32.11	-4.93	-1.01	-3.16
2410	30.03	-5.22	-1.32	-3.47
2420	30.92	-5.1	-1.18	-3.33
2430	31.24	-5.05	-1.16	-3.31
2440	31.54	-5.01	-1.02	-3.17
2450	34.87	-4.58	-0.63	-2.78
2460	33.5	-4.75	-0.88	-3.03
2470	33.58	-4.74	-1.19	-3.34
2480	34.84	-4.58	-1.29	-3.44
2490	32.46	-4.89	-1.57	-3.72
2500	33.94	-4.69	-1.44	-3.59

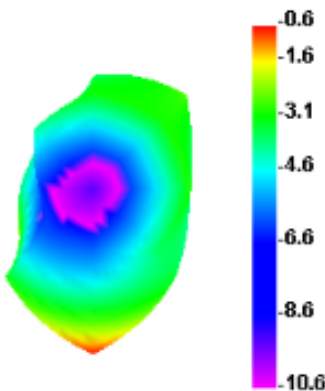
2400.000MHz



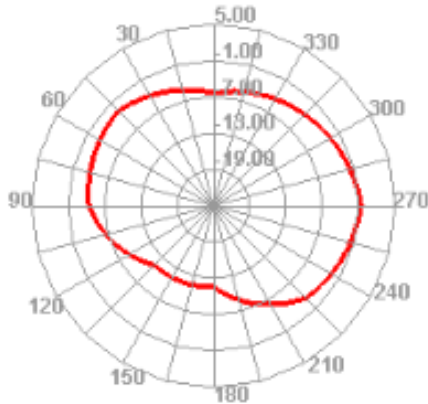
2400.000MHz H



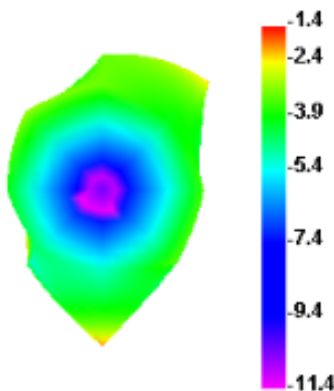
2450.000MHz



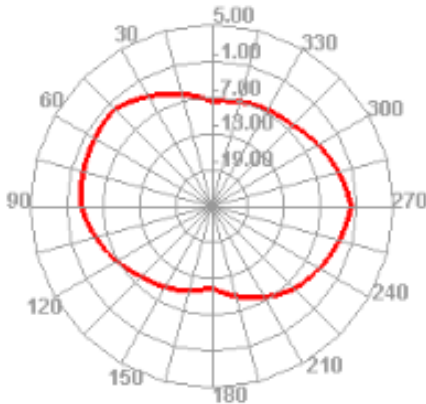
2450.000MHz H



2500.000MHz



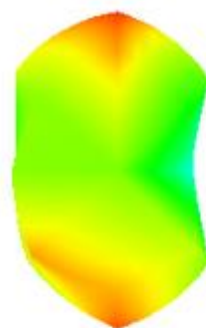
2500.000MHz H



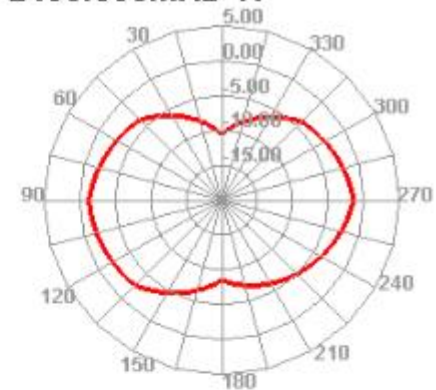
R边效率增益

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	38.28	-4.17	-1.32	-3.47
2410	35.38	-4.51	-1.61	-3.76
2420	35.34	-4.52	-1.49	-3.64
2430	34.33	-4.64	-1.46	-3.61
2440	33.73	-4.72	-1.27	-3.42
2450	37.11	-4.3	-0.74	-2.89
2460	37.58	-4.25	-0.67	-2.82
2470	34.54	-4.62	-1.16	-3.31
2480	36.87	-4.33	-0.98	-3.13
2490	35.83	-4.46	-1.2	-3.35
2500	37.68	-4.24	-1.06	-3.21

2400.000MHz



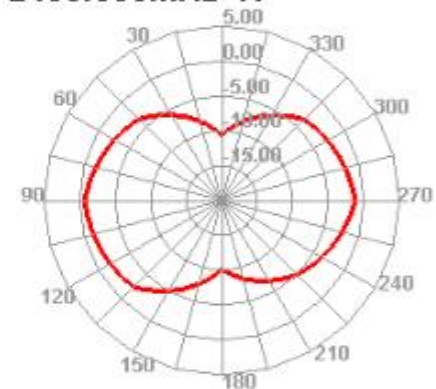
2400.000MHz H



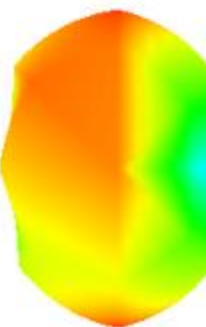
2450.000MHz



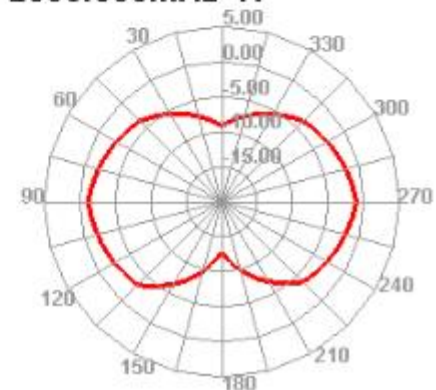
2450.000MHz H



2500.000MHz



2500.000MHz H



NC8T-陶瓷天线3D暗室 (OTA) 有源测试数据

Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
TRP (dBm)	3.9	3.38	3.39
NHPRP (dBm) 45	3.9	3.38	3.39
MAX (dBm)	6.2	5.76	6.1
EIRP peak	6.2	5.76	6.1
Min (dBm)	-3.66	-6.19	-7.99
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
TIS (dBm)	-88.55	-87.82	-88.32
NHPIS (dBm) 45	-88.55	-87.82	-88.32
RSSI Ave	4.76	3.06	3.46
MaxPosRSSI	5.98	4.23	4.3
MaxPosSens	-89.77	-88.99	-89.15
MAX (dBm)	7.06	5.44	6.17
EIS peak	7.06	5.44	6.17
Min (dBm)	-2.8	-6.51	-7.92

NC8T-R-自由空间

Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
TRP (dBm)	4.3	4.44	4.09
NHPRP (dBm) 45	4.3	4.44	4.09
MAX (dBm)	7.05	7.2	7.03
EIRP peak	7.05	7.2	7.03
Min (dBm)	-5.81	-6.12	-5.74
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
TIS (dBm)	-88.38	-88.25	-88.41
NHPIS (dBm) 45	-88.38	-88.25	-88.41
RSSI Ave	5.16	4.12	4.16
MaxPosRSSI	6.04	4.87	4.91
MaxPosSens	-89.27	-88.99	-89.15
MAX (dBm)	7.91	6.88	7.1
EIS peak	7.91	6.88	7.1
Min (dBm)	-4.95	-6.44	-5.67

NC8T-R-自由空间



NC8T-场测

场测						
荣耀x40	顶楼	室内走廊		苹果6	顶楼	室内走廊
直线360°	19M	35M		直线360°	20M	37M
弯腰	15M	27M		弯腰	15M	25M
捂手				捂手		

楼顶场测环境



室内走廊场测环境



An aerial photograph of a city skyline, likely New York City, featuring numerous skyscrapers and the Chrysler Building. The image is partially covered by a large, semi-transparent yellow triangle that points towards the bottom right corner. The text '感谢您的观看！' is written in a large, blue, sans-serif font, and '合作愉快' is written below it in a slightly smaller, blue, sans-serif font.

感谢您的观看！
合作愉快