

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

Shenzhen Ruiqiang Communications Co., Ltd.

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MW70 Antenna Product Acknowledgment Form

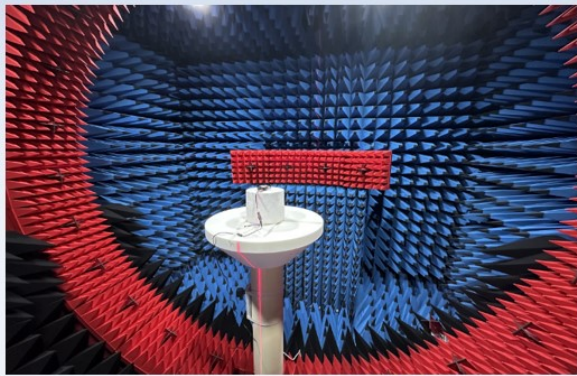
Client	Qiao Ning	Frequency range	2402MHZ-2480MHZ
Project name	MW70		
RFdesign	Zhengzhou	Structure	Peng Yaohui
Technical Director	Fu Yicheng	Date	2026/6/25
Antenna type	FPC		
Company Address	Shenzhen Ruiqiang Communications Co., Ltd. Address: Room 502, W2-A, Gaoxin Industrial Village, Gaoxin South 4th Road, Nanshan District, Shenzhen		

Customer Confirmation:

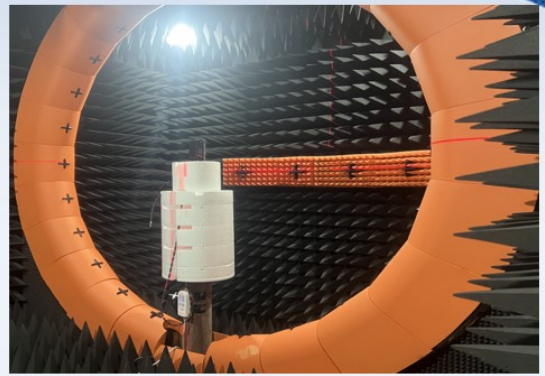
Catalogue

I. Testing System.....	2
II. Passive Test Data.....	3
1. S-parameters (free space).....	3
1.1S Specifications (Head & Ear).....	3
2. Passive efficiency and gain (free space).....	4
2.1 Passive Efficiency and Gain (Per Head Ear).....	4
3. Passive radiation pattern (free space).....	5
3.1 Passive radiation pattern (human head ear model).....	5
III. Active Test Data.....	6
1. TRP&TIS (Free Space).....	6
1.1 TRP&TIS (Head-Ear).....	6
IV. Matching Circuit Diagram.....	7
V. Engineering Drawings.....	7

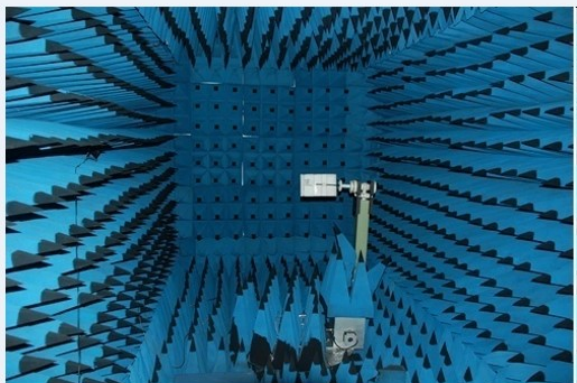
I. Testing System



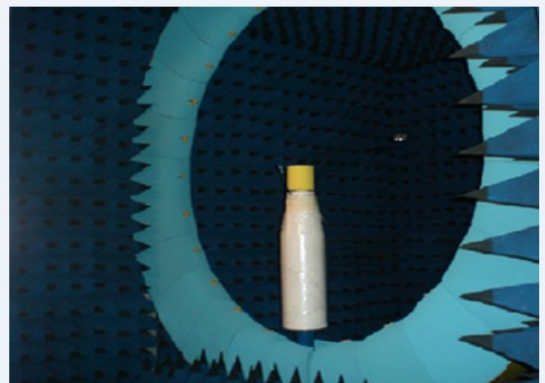
SUNYIELD测试系统



ATS-300L测试系统



广屏测试系统



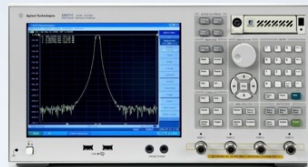
Satimo测试系统

仪器设备

R&S CMW500



Agilent E5071C



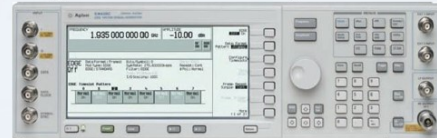
Anritsu MT8820C



Agilent N4010A



Agilent E4438C Signal Generator

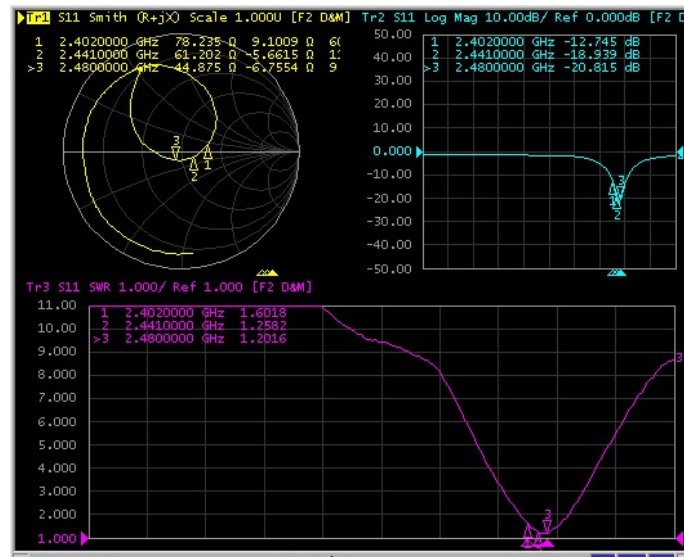


Anritsu MT8000A

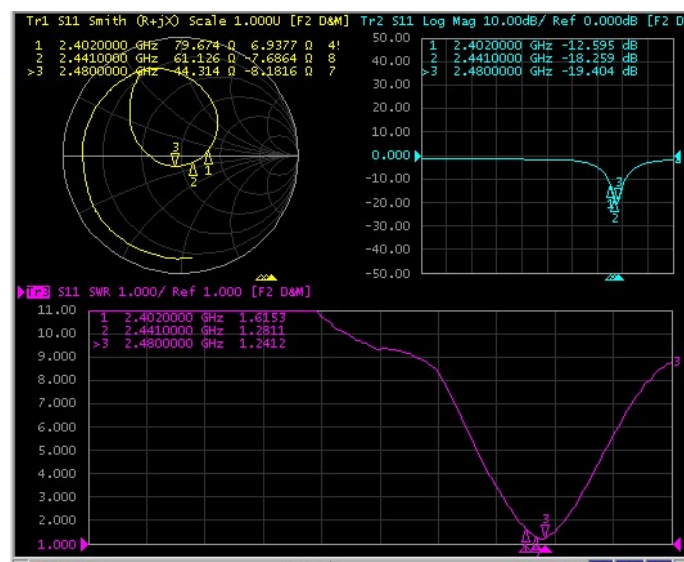


II. Passive Test Data

1. S-Parameters (free Space)



1.1 S-Parameter (Head-Ear)



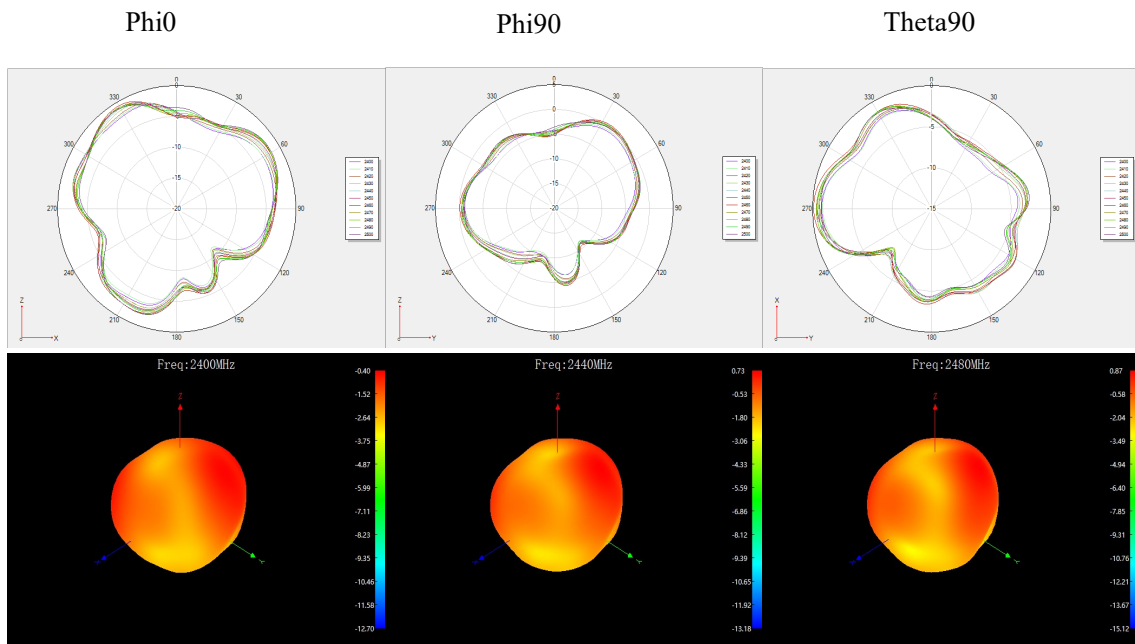
2. Passive Efficiency and Gain (free Space)

Frequency(MHz)	Productiveness%	Productiveness(dB)	Gain(dBi)
2400	39.04	-4.08	-0.4
2410	38.81	-4.11	-0.18
2420	41.22	-3.85	0.23
2430	42.84	-3.68	0.53
2440	42.84	-3.68	0.73
2450	43.73	-3.59	0.66
2460	45.18	-3.45	1
2470	43.99	-3.57	0.7
2480	43.82	-3.58	0.87
Average value	42.39	-3.73	0.46

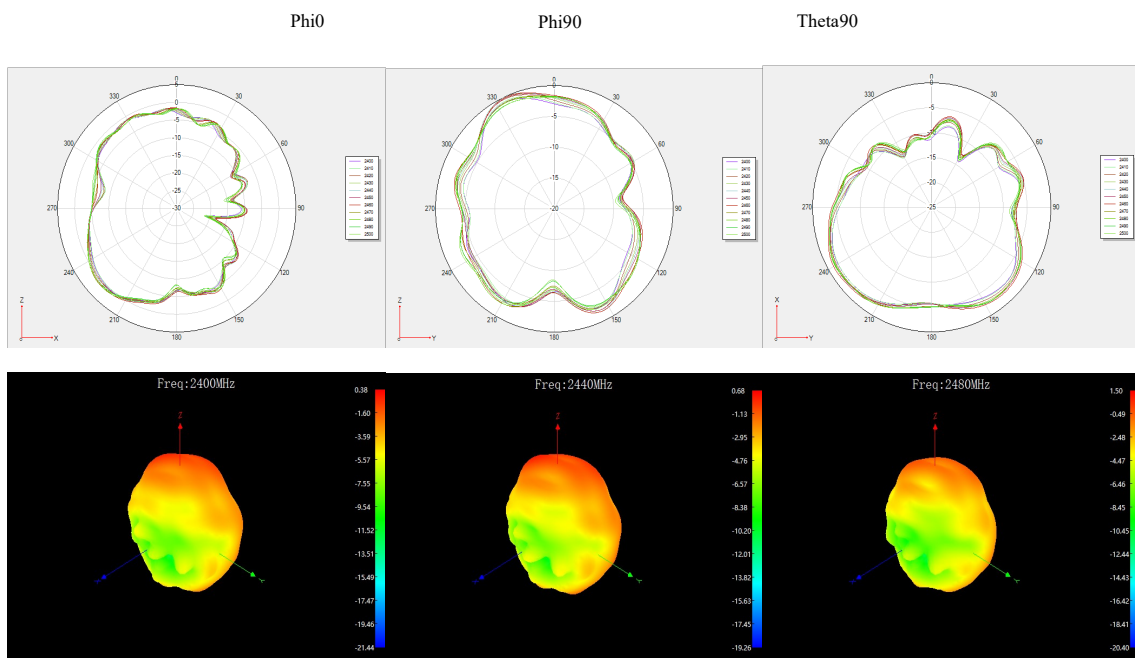
2.1 Passive Efficiency and Gain (Per Head Ear)

Frequency(MHz)	Productiveness%	Productiveness(dB)	Gain(dBi)
2400	37.28	-4.29	0.38
2410	36.41	-4.39	0.07
2420	38.88	-4.10	0.57
2430	39.83	-4.00	0.38
2440	40.16	-3.96	0.68
2450	40.81	-3.89	0.62
2460	42.67	-3.70	1.36
2470	40.97	-3.88	1.07
2480	41.48	-3.82	1.5
Average value	39.83	-4.00	0.74

3. Passive Radiation Pattern (free Space)



3.1 Passive Radiation Pattern (human Head Ear Model)



III. Active Test Data

1. TRP&TIS (Free Space)

OTA (Free Space)

Channel	0	39	78	AVG
TRP	6.08	5.37	5.46	5.64
TIS	-84.31	-91.13	-90.09	-88.51

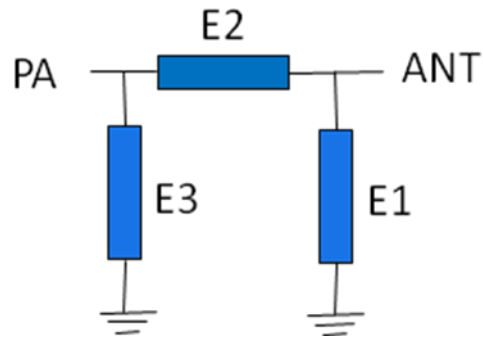
1.1 TRP&TIS (Head-Ear)

OTA (Head-Ear)

Channel	0	39	78	AVG
TRP	5.36	4.75	4.77	4.96
TIS	-83.93	-90.2	-89.4	-87.84

IV. Matching Circuit Diagram

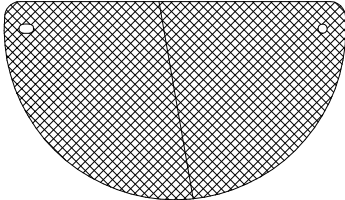
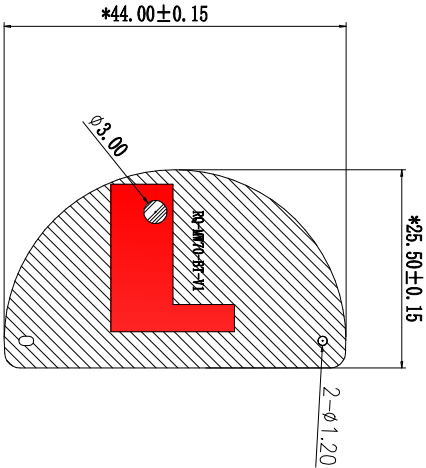
Mate	E1	E2	E3
Value	NC	1.5NH	NC



V. Engineering Drawings

(vide infra)

黑色油墨印刷白色亮光字体
出货方式为微贴膜



NOTES:

1. 红色为铜材质部分； 空白为基材； 黄色部分为镀金区； 蓝色为背胶区域；
2. 刀模不可伤到线路，镀金区要与线路导通；
3. 表面不可以有污物、擦伤、黑点、镀金后断裂及脱落等不良现象；
4. 材料：FPC单面板 [PI (ED) 一对半+基材+胶 (3M 467 0.05mm)+表面 黑油墨 (>0.01mm)]；
5. 反面背胶为 3M 467；
6. 金手指表面镀金(厚度：0.5u"-1.5u")，不可有氧化现象(需过盐雾实验)；
盐雾实验48±1小时后表面无腐蚀点和镀层脱落；
7. 标*为重点尺寸，未标注公差请按B级公差检验。

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日期	修 改 内 容	版 本	修 订						位置	6	7	8
1		2	3	4	5	6	7	8				



Shenzhen Ruiqiang Communications Co., Ltd.

RF PA				机 种	品 名	日期	2026. 06. 05
0°~10	±0.10	○	0.02	料 号	BT-FPC-V1.0	设计	
10°~20	±0.12	◎	∅0.03			审核	结构
20°~40	±0.15	⊥	0.02				射频
40°~50	±0.20	∇	0.04	材 质	PI电解铜		
		∇	0.02	模面处理		确认	
				外观处理		单位	mm
						比例	FIT
						版本	V1