

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

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SPECIFICATION

Customer	Zhuo yue	Frequency Band	2400MHz-2500MHz
Model	BBM10		
RF designer	Zheng Zhou	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2025/9/17

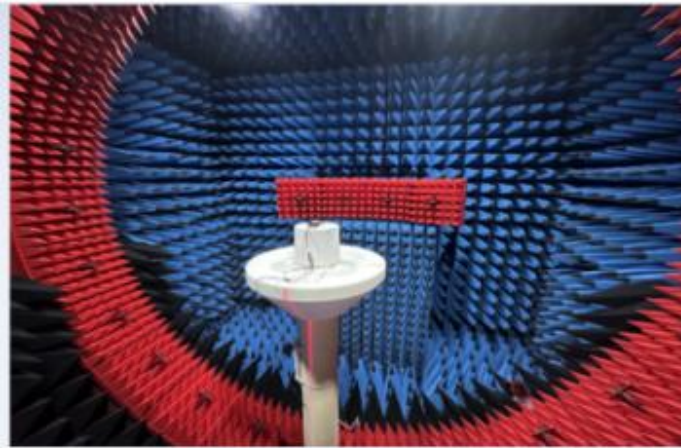
Confirm by customer:

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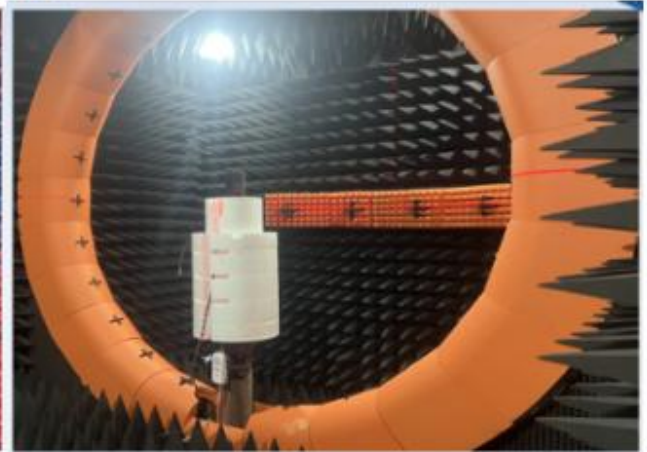
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1. The Equipment of Active&Passive Test

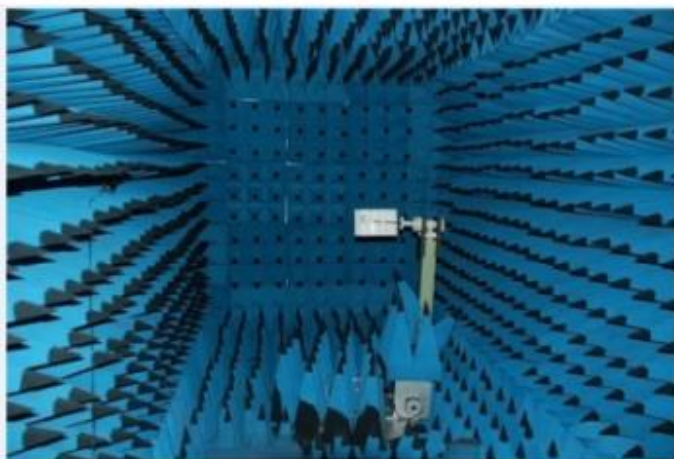
chamber



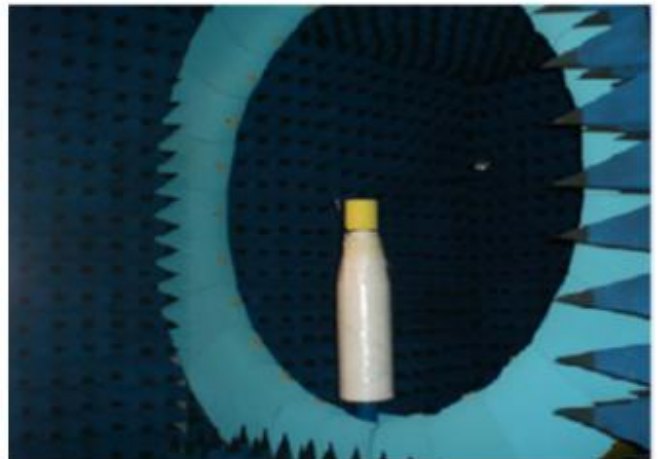
SUNYIELD



ATS-300L



Guang Ping



Satimo

Equipment

R&S CMW500



Agilent E5071C



Anritsu MT8820C



Agilent N4010A



Agilent E4438C Signal Generator



Anritsu MT8000A



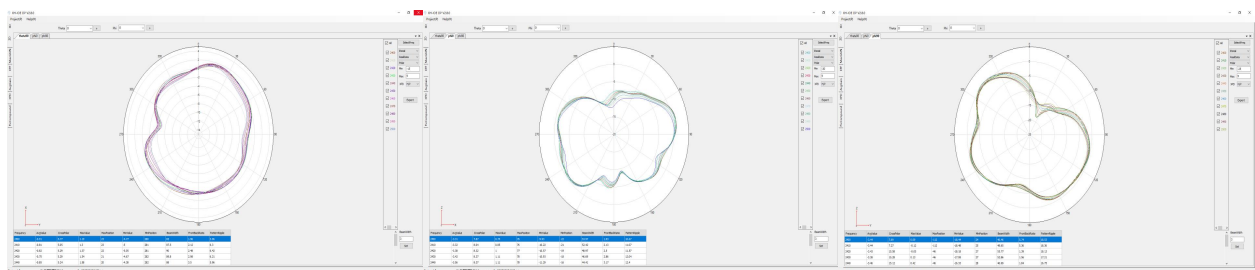
2. Passive Test

2.1 Passive Efficiency and Gain

Efficiency and Gain(free space)

Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-2.29	59.02	1.78
2410	-2.31	58.75	1.98
2420	-2.4	57.54	2.07
2430	-2.45	56.89	2.21
2440	-2.59	55.08	2.09
2450	-2.61	54.83	2.07
2460	-2.7	53.7	1.94
2470	-2.77	52.84	1.88
2480	-2.94	50.82	1.71
2490	-3.04	49.66	1.64
2500	-3.16	48.31	1.51

2.2 Passive 2D pattern



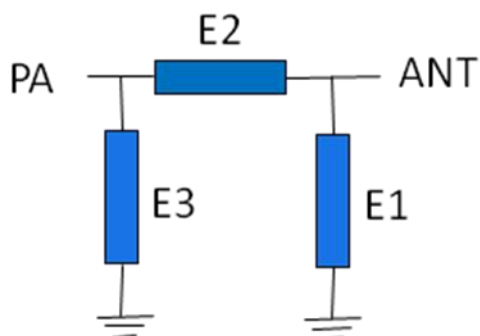
3.Active test

3.1 TRP&TIS

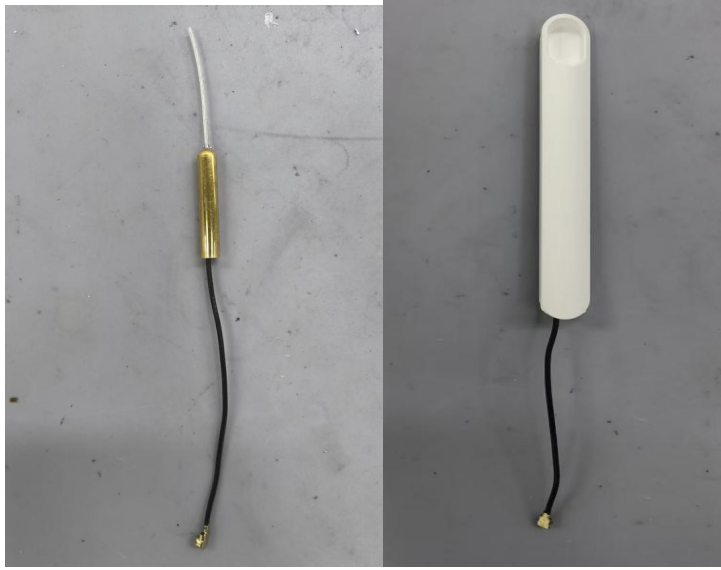
Type	Band	Channel	Frequency	Total
TRP	WIFI_B (11M)	1	2412	19.82
TIS (EIRP)			2412	-92.38
TRP		7	2442	19.94
TIS (EIRP)			2442	-91.74
TRP		13	2472	19.91
TIS (EIRP)			2472	-91.93
TRP	WIFI_G (54M)	1	2412	17.74
TIS (EIRP)			2412	-79.46
TRP		7	2442	17.9
TIS (EIRP)			2442	-78.79
TRP		13	2472	17.91
TIS (EIRP)			2472	-77.73
TRP	WIFI_N_ISM (6.5M)	1	2412	20.21
TIS (EIRP)			2412	-95.18
TRP		7	2442	20.38
TIS (EIRP)			2442	-95.51
TRP		13	2472	20.39
TIS (EIRP)			2472	-94.66

4.Matching Circuit

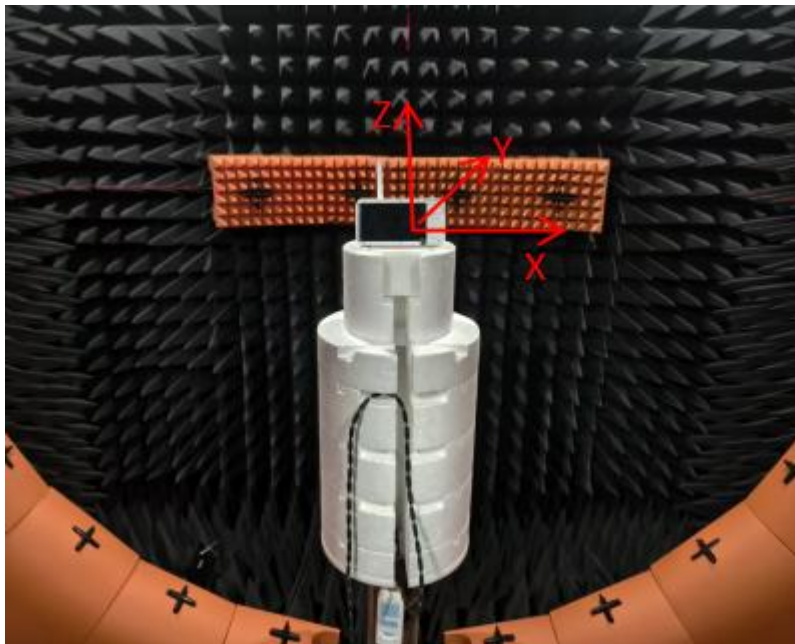
Element	E1	E2	E3
Value	NC	0 Ω	NC



5. Antenna placement



6. chamber placement



7. Engineering drawing

(see next page)

1	2	3	4	5	6	7	8
同轴线线芯和屏蔽层长度 27 24.6 铜管长度和直径 4.4 118 φ1.13 一代端子							
技术要求: 1. 未标注公差尺寸按图纸“未注公差”; 2. 严格按图纸尺寸加工; 3. 铜管+同轴线配一代端子 4. 标有*为重要尺寸; 5. 材料需符合“RoHS”环保要求。							
备注: 本图纸由深圳市瑞强通信有限公司内部发行 未经允许任何人不得擅自拷贝、改动或带离公司.							
日期 修 改 内 容 版 本 修 订							
1 2 3 4 5 6 7 8							
RF PA 0~10 ±0.10 10~20 ±0.12 20~40 ±0.15 40~50 ±0.20 ○ ◎ ⊥ ∠ 0.02 0.03 0.02 0.04 0.02 深圳市瑞强通信有限公司 机 种 品 名 料 号 材 质 外观处理 BBM10 WiFi12 天线 RQ03B161817-WIFI12 日期 设计 审核 确认 2025.09.17 周俊 结构 射频 单位 mm 比例 FIT 版本 V1							