编号：SDN-RD-FY-2025052001

# 承　认　书

# APPROVAL SHEET

| | | | | |
|---|---|---|---|---|
| 客户名称<br>Customer | 精创 | | | |
| 客户料号<br>Customer P/N | | | | |
| 项目名称<br>Project Name | 910-920MHz Spring Antenna | | | |
| 供应商名称<br>Supplier | 上海圣丹纳无线科技有限公司<br>Shanghai Saintenna Wireless Technology Co. , Ltd. | | | |
| 圣丹纳物料型号<br>Saintenna P/N | SAA32554A | | | |
| 是否符合 RoHS<br>ROHS Compliant | Yes | | | |
| 供应商地址<br>Supplier Address | Room 601, Building 1, No. 69, Yuanfeng Road, Baoshan District, Shanghai | | | |
| 供应商<br>Supplier | 制定<br>Prepared by | 设计<br>Designer | 品质<br>QA | 批准<br>Approver |
| | | | | |

地址：上海市宝山区园丰路69号1幢601室
Address: Room 601, Building 1, No. 69 Yuanfeng Road, Baoshan District, Shanghai 200444, China

电话/Tel：086-021-56165098; 传真/Fax：086-021-56165098

| | | | |
|---|---|---|---|
| 客户<br>Customer | 编制<br>Prepared by | 审核<br>Checked by | 批准<br>Approver |
| | | | |

注：必须手工签字确认(Note: Signature must be confirmed by hand)

# 目录/Content

# 规格/Specification

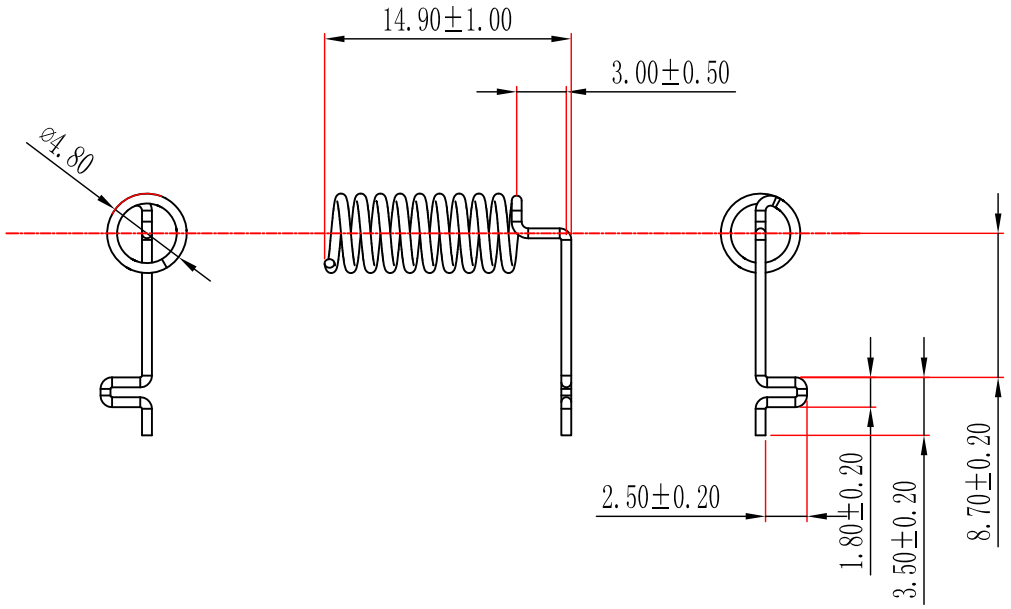
## 1. 机械规格/Mechanical Specification

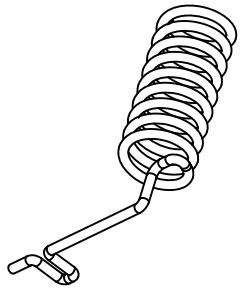
- 连接方式/Connect Type..... Weld
- 工作温度/Work Temperature..... -40~85℃
- 存储温度/Storage Temperature..... -40~85℃

## 2.电性能参数/Electrical Specification

- 频段/Frequency Range..... 910MHz~920MHz
- 驻波比/VSWR..... <2
- 效率/Efficiency..... <89%
- 增益/Peak Gain..... 3.9dBi
- 极化/Polarization..... Linear
- 特性阻抗/Input Impedance..... 50Ω
- 最大承载功率/Max Input Power..... 5W

| 标记 | 签 名 | 修改内容 | 日 期 |
|---|---|---|---|
| | | | |
| | | | |



技术要求:
线径：0.60±0.05mm,
外径：4.80mm
材质：磷铜（适合焊锡）
环保：满足ROHS & REACH & HF
带*号尺寸与带公差尺寸为重点管控尺寸，其他未标注公差尺寸按明细栏公差管控;

圣丹纳 SAINTENNA

# 上海圣丹纳无线科技有限公司

| Third Projection | | | |
|---|---|---|---|
| 0～3 | ±0.10 | ⌖ | 0.30 |
| 3～30 | ±0.30 | ○ | 0.30 |
| 30～50 | ±0.50 | ◎ | 0.30 |
| 50～80 | ±1.00 | ⊥ | 1.00 |
| 角度 | ±1° | ▱ | 1.00 |
| 第 1 页，共 1 页 | | | |

| | | | |
|---|---|---|---|
| 项目名称 | S2172 | 日期 | 2025.05.21 |
| 产品名称 | 915MHz弹簧天线 | 设计 | MD mayuxue |
| | | | RF zhengzhen |
| 产品料号 | SAA32554A | 批准 | |
| | | 单位 mm | 比例 FIT 版本 P2 |

# 精创M100 2ND 天线调试报告

上海圣丹纳无线科技有限公司
Shanghai Saintenna Wireless Technology Co., LTD.

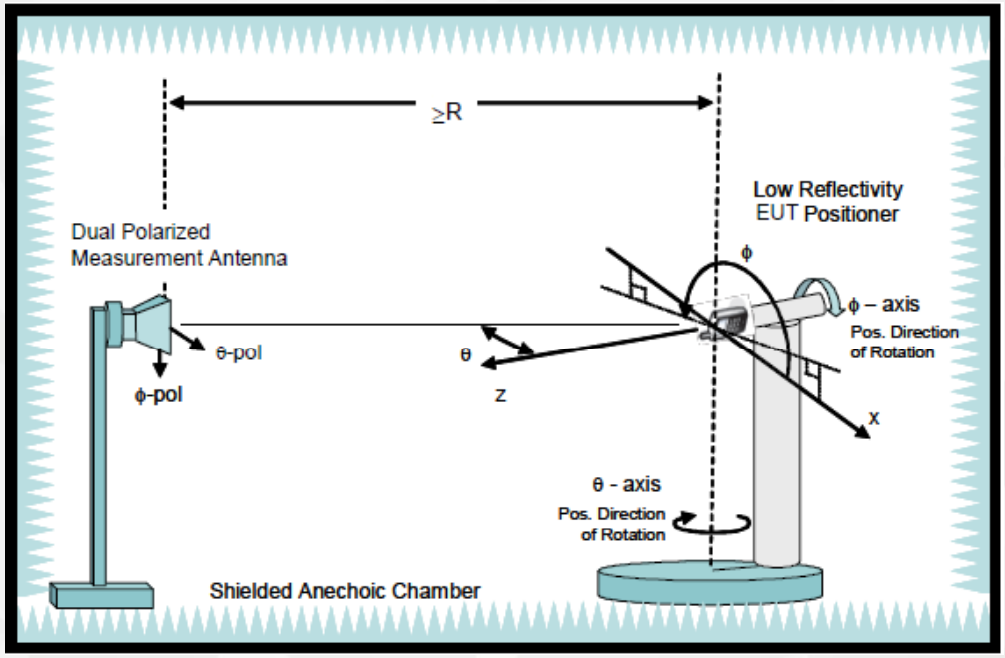
# Project Information

| | |
|---|---|
| 客户名称<br>Customer Name | 精创 |
| 项目名称<br>Project Name | M100 2ND |
| 工作频段<br>Working Band | 910-920MHz |
| 规格<br>Description | |
| 版本<br>Version | V1.0 |
| 日期<br>Date | 2025.5.8 |

# Tuning Instrument

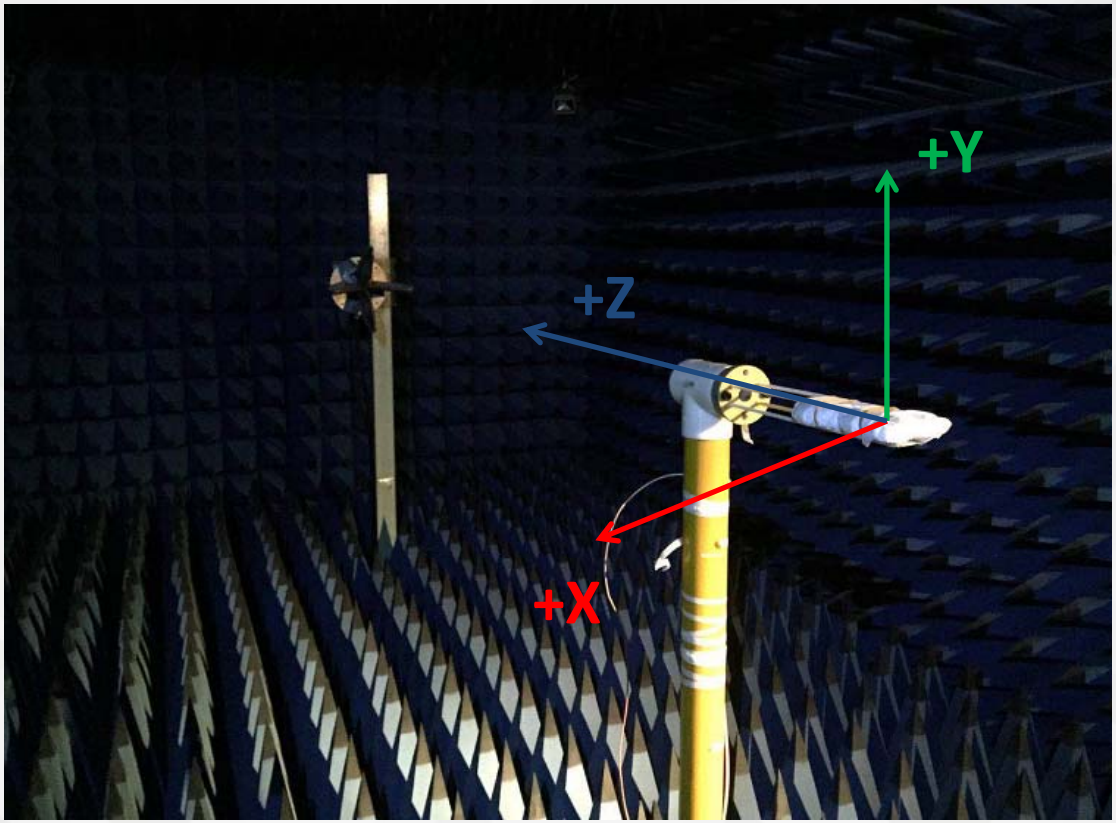
| | |
|---|---|
| Network Analyzer | Agilent E5071C |
| Frequency Range | 100KHz ~ 8.5GHz |
| Test Item | Return Loss/VSWR/Smith Chart /Isolation |

# Typical Setup for Test System




Combined-Axes System

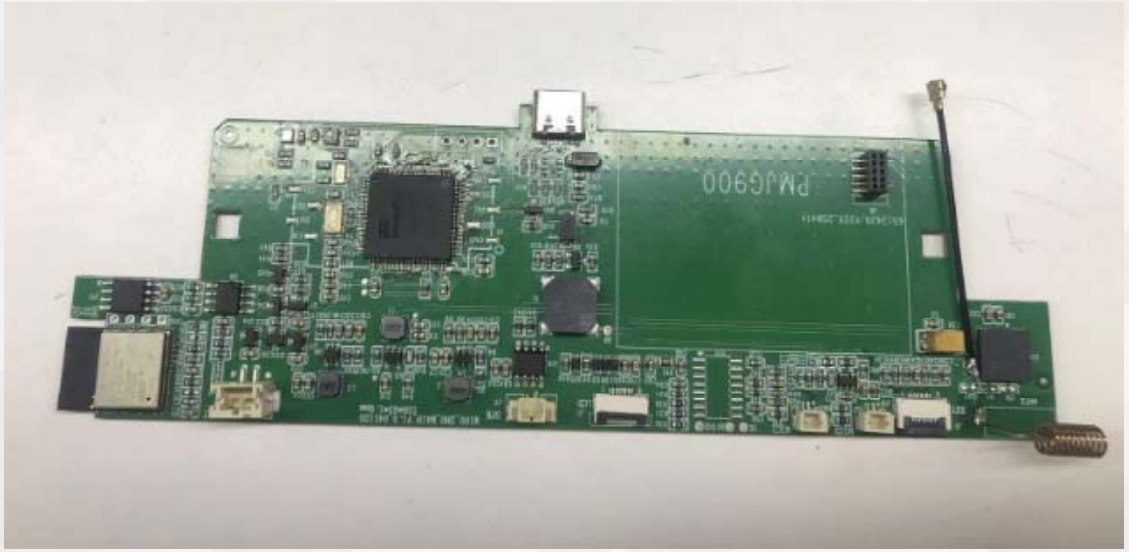
# Anechoic Chamber



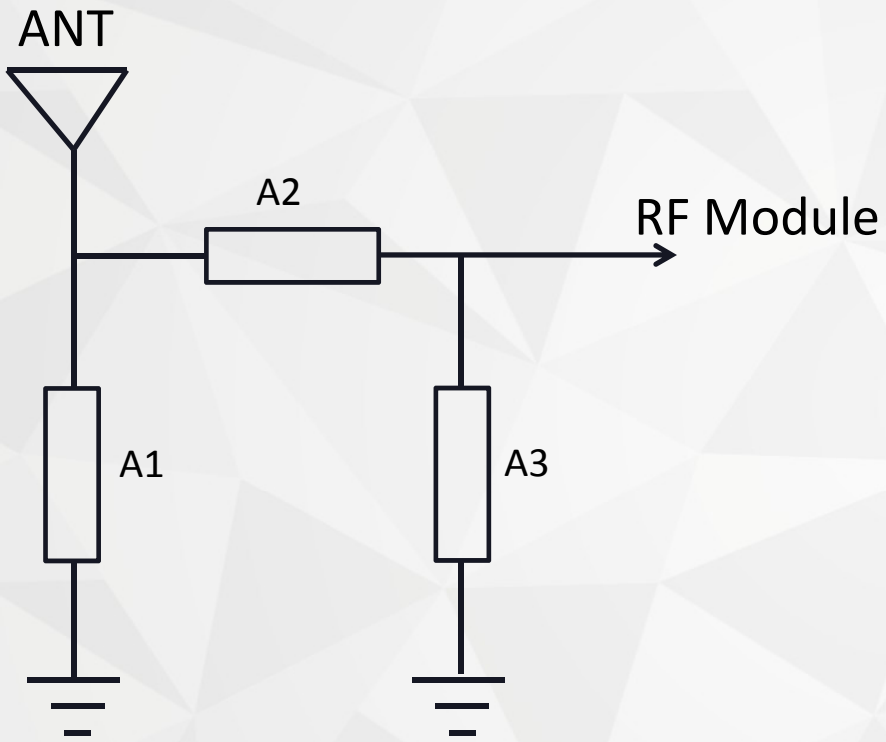

Combined-Axes System

Comment: E1 plane means XZ section, E2 plane means YZ section, H plane means XY section.

# Antenna Sample Description

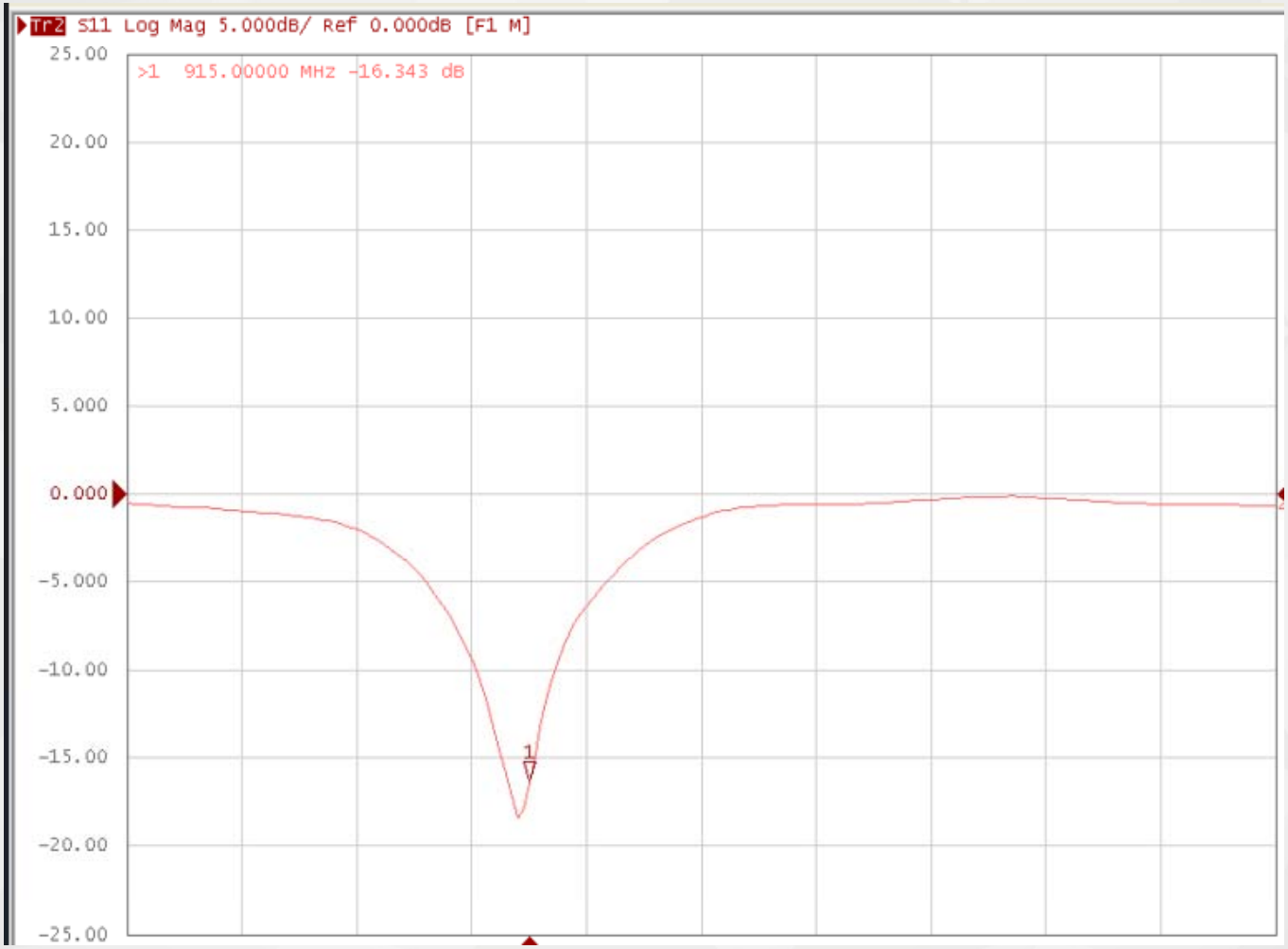


# Matching Circuit

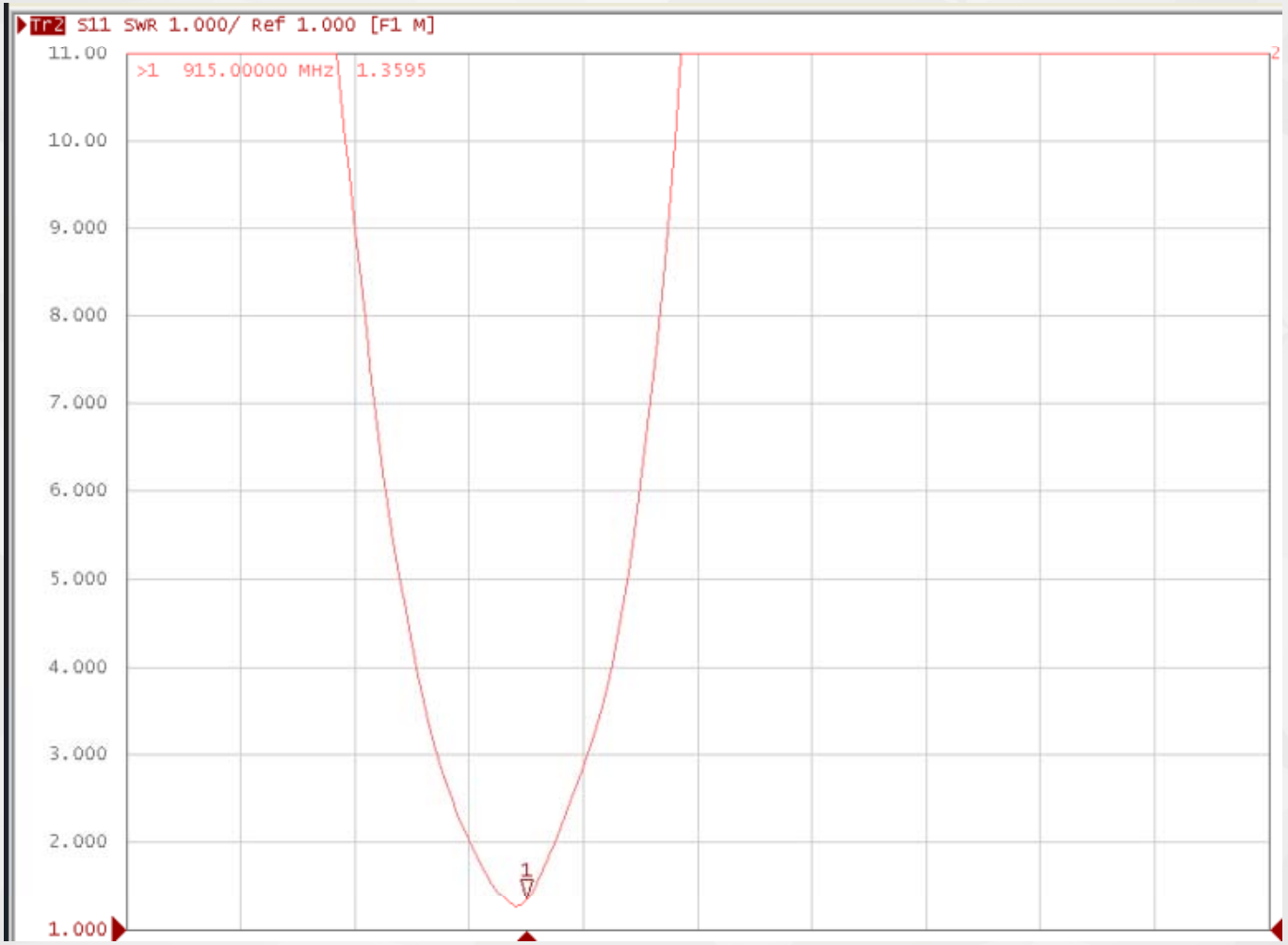



| | |
|---|---|
| A1 | / |
| A2 | 0ohm |
| A3 | / |

# S11


Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
>1 915.00000 MHz -16.343 dB
25.00
20.00
15.00
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
1

# VSWR


Tr2 S11 SWR 1.000/ Ref 1.000 [F1 M]
>1 915.00000 MHz 1.3595
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000

# Test Result - Passive

| Freq. (MHz) | Gain (dBi) | Eff. |
|---|---|---|
| 910 | 3.6 | 85.87% |
| 915 | 3.66 | 87.51% |
| 920 | 3.92 | 89.56% |

# Radiation Pattern