



# 深圳市天威讯无线技术有限公司

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## 天线设计与数据报告

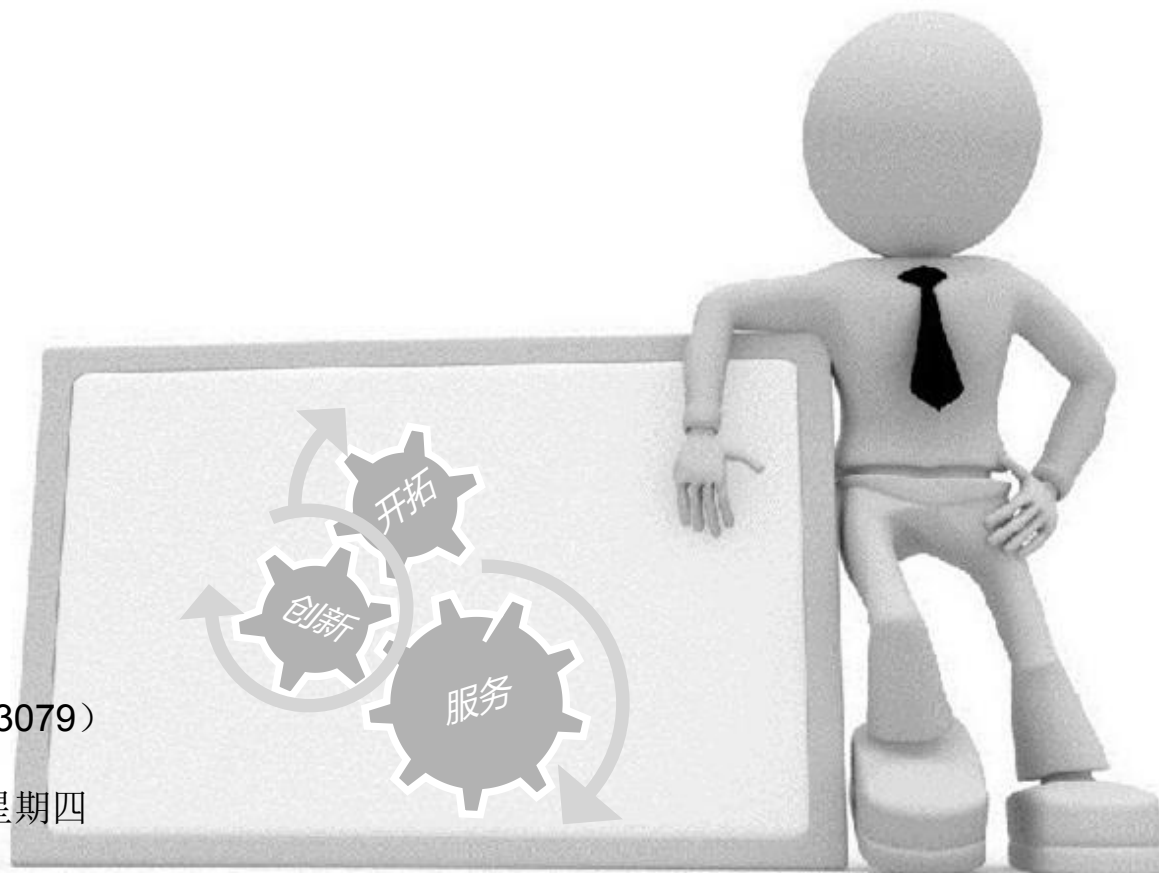
客户名称：麦子

项目名称：M63

要求频段：BT

研发工程：廖鲜明（13713883079）

完成日期：2023年09月28日星期四



Commissioning of the project complete machine picture :

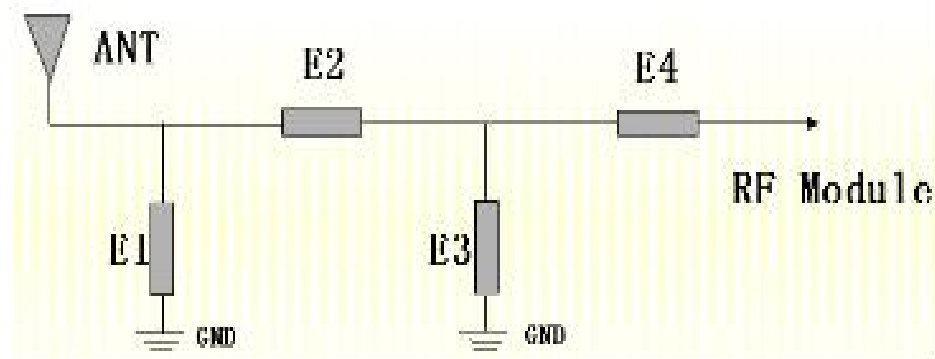


# Description of the antenna matching circuit :

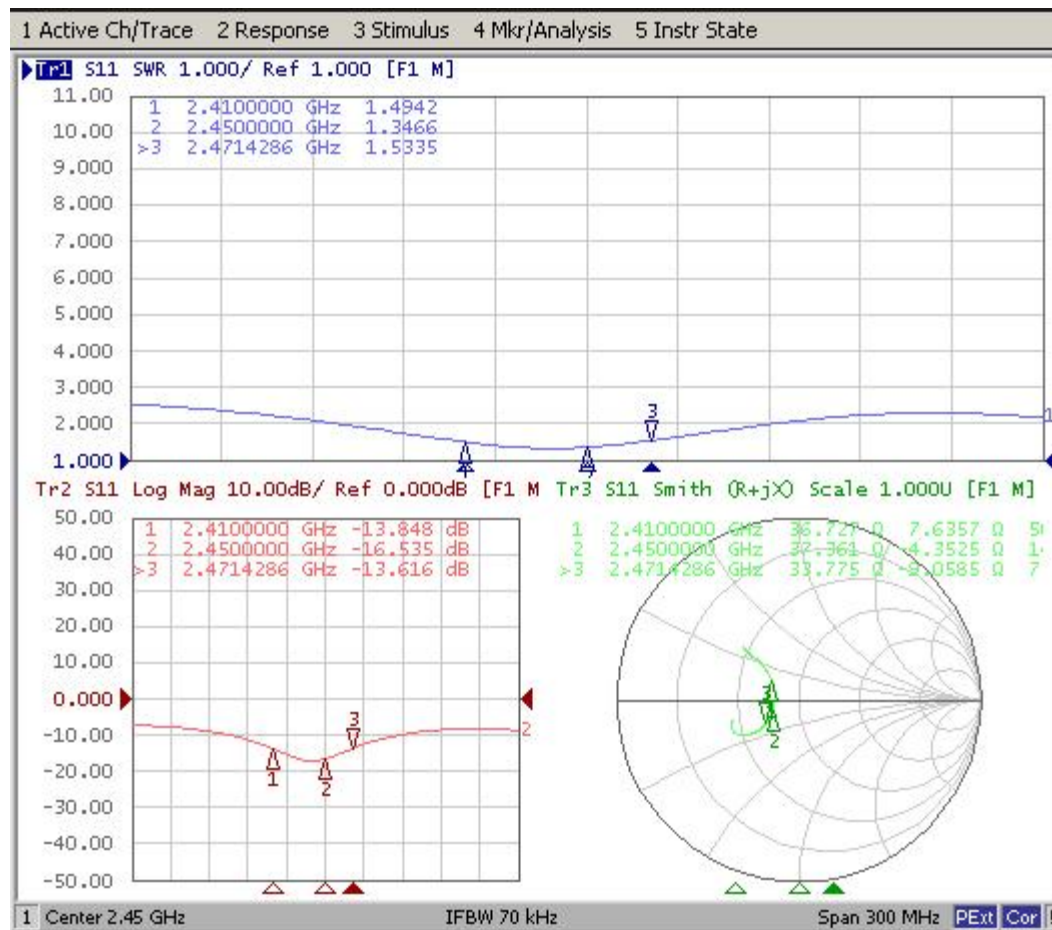


## 天线电路匹配说明 Antenna circuit matching description

| Element  |           |
|----------|-----------|
| E1(0201) | invariant |
| E2(0201) | invariant |
| E3(0201) | invariant |
| E4(0201) | invariant |



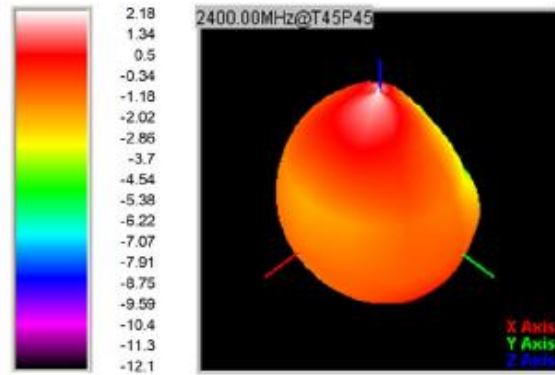
# BT data of passive network (S11 graph):



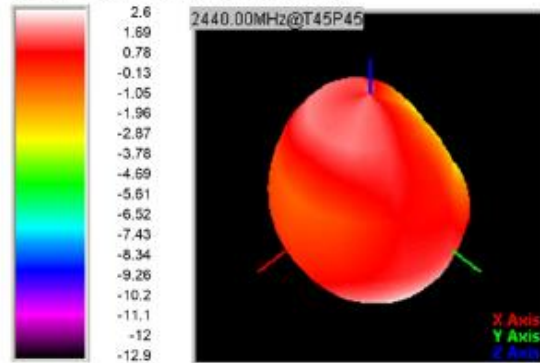
| Test Point ID | Freq. (MHz) | Gain (dBi) | Efficiency (%) |
|---------------|-------------|------------|----------------|
| 1             | 2400.0      | -6.53      | 7.1%           |
| 2             | 2410.0      | -6.56      | 7.0%           |
| 3             | 2420.0      | -6.37      | 7.0%           |
| 4             | 2430.0      | -6.13      | 7.0%           |
| 5             | 2440.0      | -6.38      | 7.0%           |
| 6             | 2450.0      | -6.29      | 7.0%           |
| 7             | 2460.0      | -6.32      | 7.2%           |
| 8             | 2470.0      | -6.51      | 7.0%           |
| 9             | 2480.0      | -6.56      | 7.1%           |
| 10            | 2490.0      | -6.80      | 6.9%           |
| 11            | 2500.0      | -6.54      | 7.3%           |

# 3D Gain Pattern

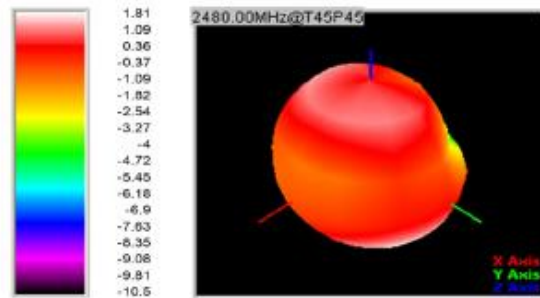
© 3D Gain Pattern (2400 MHz)



© 3D Gain Pattern (2440 MHz)



© 3D Gain Pattern (2480 MHz)



# Measured distance between BT connection and phone :

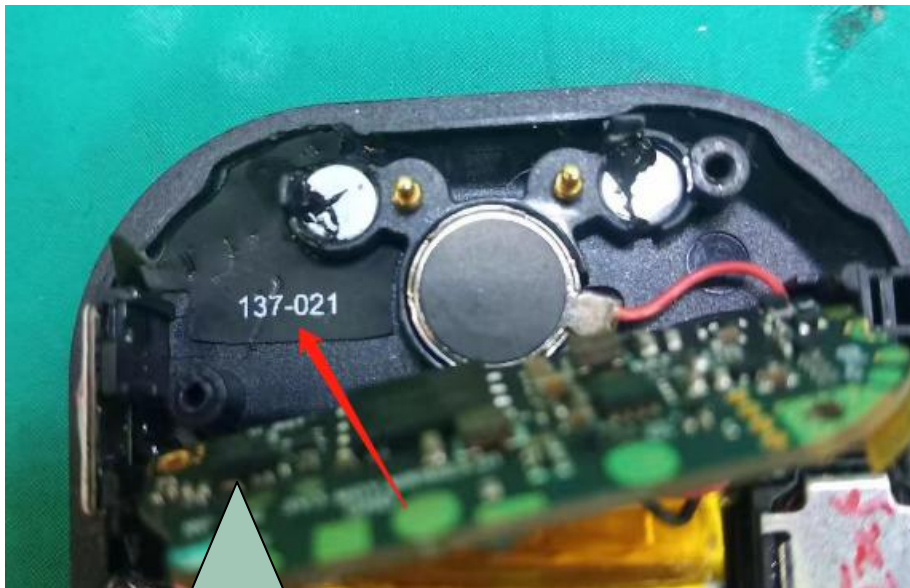


15米蓝牙连接数据

| Phone                                | critical distance | Back to the distance | 360 degrees of continuous distance |
|--------------------------------------|-------------------|----------------------|------------------------------------|
| 三星S8                                 | 16                | 15                   | 15                                 |
| 华为AL10                               | 16                | 15                   | 15                                 |
| Supplementary Note: Distance unit: m |                   |                      |                                    |



# BT Antenna layout or cycloid description with at drawings :



1、 The antenna paste position as shown.



2、 According to the figure, the welding mode of the antenna.





**感谢您的耐心阅读！**



如有疑问 请联系我们！

日常服务时间：周一至周五 9:00-18:00 周六 9:00-12:00

总机热线：0755 - 29361726

传 真：0755 - 85268343

网址：[www.tianweixun.com](http://www.tianweixun.com)