



东莞市顶益通讯科技有限公司  
Dong-guan TopGain Communication Technology Co.,Ltd.

|                             |                            |              |
|-----------------------------|----------------------------|--------------|
|                             | 5G ANT1                    |              |
| 料号 Part No.                 | 19340100047 ZL-PCB45-X65C1 |              |
| 材质 Material                 | FR4/RG137cable             |              |
|                             |                            |              |
| 客户回签/The customer sign back | 编制日期/Date:                 | 2022. 08. 29 |
| 审核/Checked:                 | 设计/Design By:              | 江鸿富          |
| 批准/Approved:                | 审核/Checked By:             | 王睦冲          |
|                             |                            |              |

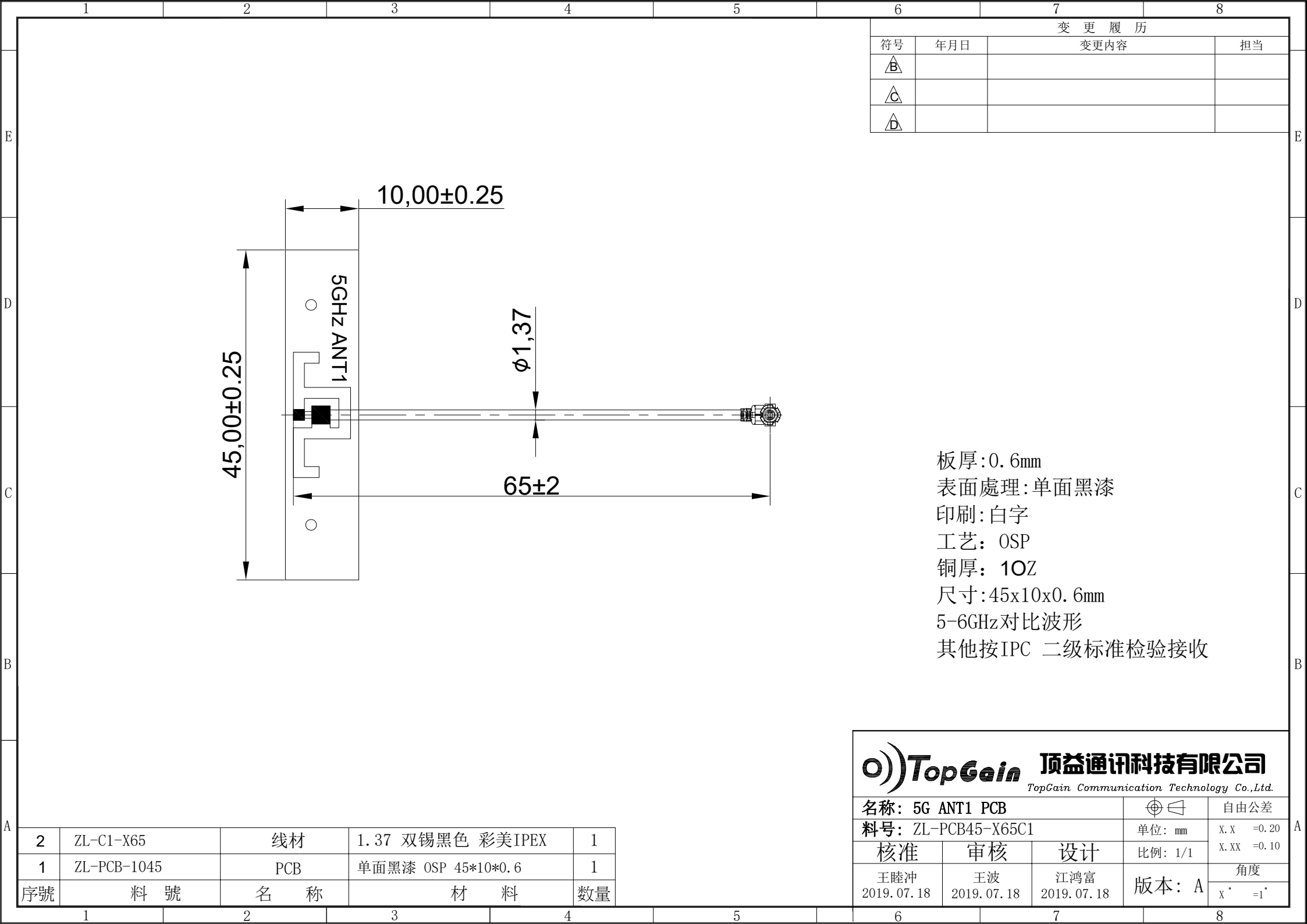


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## 规格

|                                                     |                   |
|-----------------------------------------------------|-------------------|
| <b>A. Electrical Characteristics</b>                |                   |
| 阻抗                                                  | 50 Ohm            |
| 频率范围                                                | 5.15-5.85GHz      |
| VSWR                                                | 2.0Max            |
| <b>B. Material &amp; Mechanical Characteristics</b> |                   |
| 辐射方向                                                | 全向                |
| 极化方式                                                | 垂直                |
| 线材规格                                                | 1.37 黑色 L=65mm    |
| 接头型号                                                | IPEX              |
| 颜色                                                  | 黑色                |
| <b>C. Environmental</b>                             |                   |
| 工作温度                                                | - 20 °C ~ + 70 °C |
| 储存温度                                                | - 40 °C ~ + 80 °C |



| 变 更 履 历    |     |      |    |
|------------|-----|------|----|
| 符号         | 年月日 | 变更内容 | 担当 |
| △ <u>B</u> |     |      |    |
| △ <u>C</u> |     |      |    |
| △ <u>D</u> |     |      |    |

板厚:0.6mm  
表面處理:单面黑漆  
印刷:白字  
工艺:OSP  
铜厚:10Z  
尺寸:45x10x0.6mm  
5-6GHz对比波形  
其他按IPC 二级标准检验接收

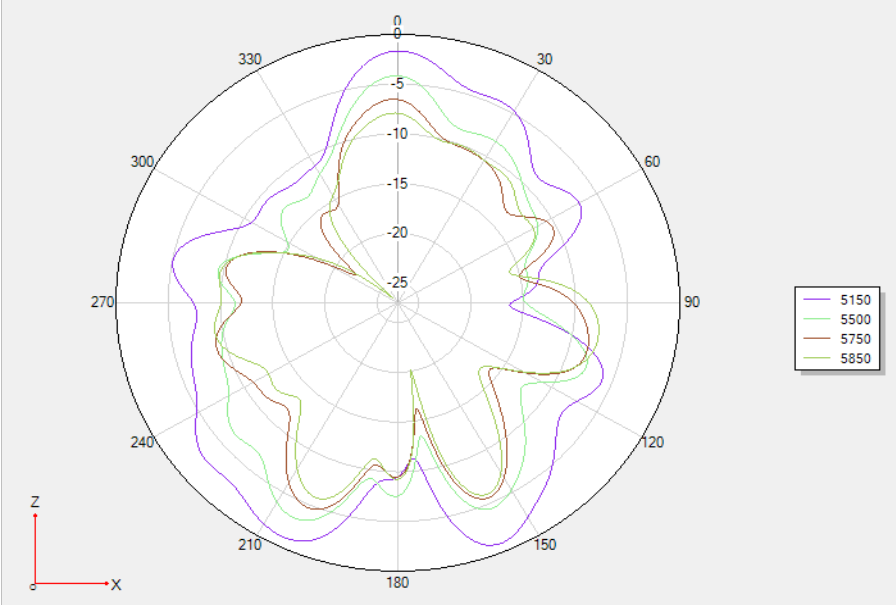
|    |             |     |                    |    |
|----|-------------|-----|--------------------|----|
| 2  | ZL-C1-X65   | 线材  | 1.37 双锡黑色 彩美IPEX   | 1  |
| 1  | ZL-PCB-1045 | PCB | 单面黑漆 OSP 45*10*0.6 | 1  |
| 序号 | 料 號         | 名 称 | 材 料                | 数量 |

|                                                                                                                                                                                      |                  |                   |                                                                                       |  |                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------------------------------------------------------------------------|--|-------------------------|--|
| <div><div></div><div>顶益通讯科技有限公司</div><div>TopGain Communication Technology Co.,Ltd.</div></div> |                  |                   |                                                                                       |  | 自由公差                    |  |
| 名称: 5G ANT1 PCB                                                                                                                                                                      |                  |                   |  |  | 单位: mm                  |  |
| 料号: ZL-PCB45-X65C1                                                                                                                                                                   |                  |                   | 比例: 1/1                                                                               |  | X.X =0.20<br>X.XX =0.10 |  |
| 核准                                                                                                                                                                                   | 审核               | 设计                | 版本: A                                                                                 |  | 角度                      |  |
| 王睦冲<br>2019.07.18                                                                                                                                                                    | 王波<br>2019.07.18 | 江鸿富<br>2019.07.18 |                                                                                       |  | X° =1°                  |  |

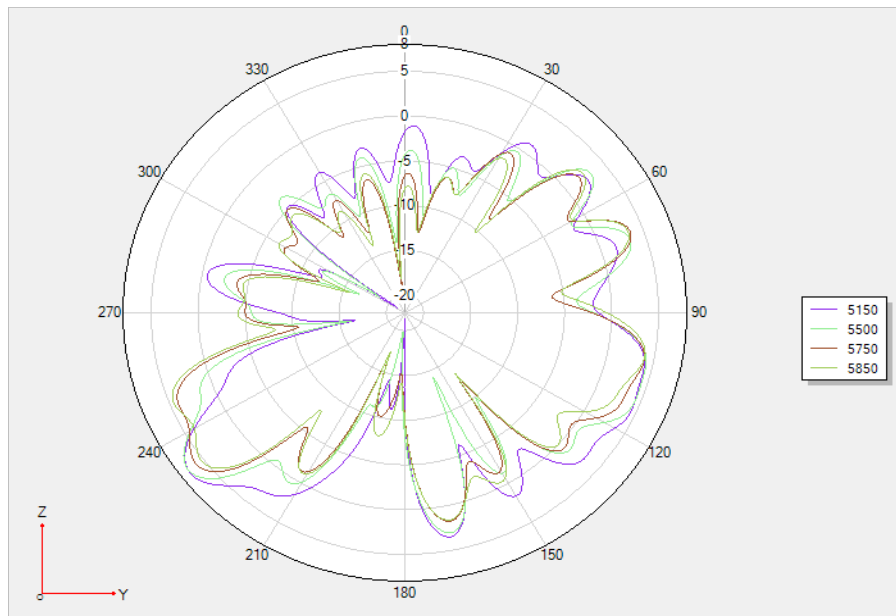
# 增益效率测试报告

|                 |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|
| Frequency / MHz | 5150  | 5350  | 5550  | 5750  | 5850  |
| Efficiency / %  | 66.07 | 57.28 | 53.83 | 43.15 | 40.46 |
| Gain/ dB        | 7.09  | 7.27  | 7.28  | 6.03  | 5.47  |

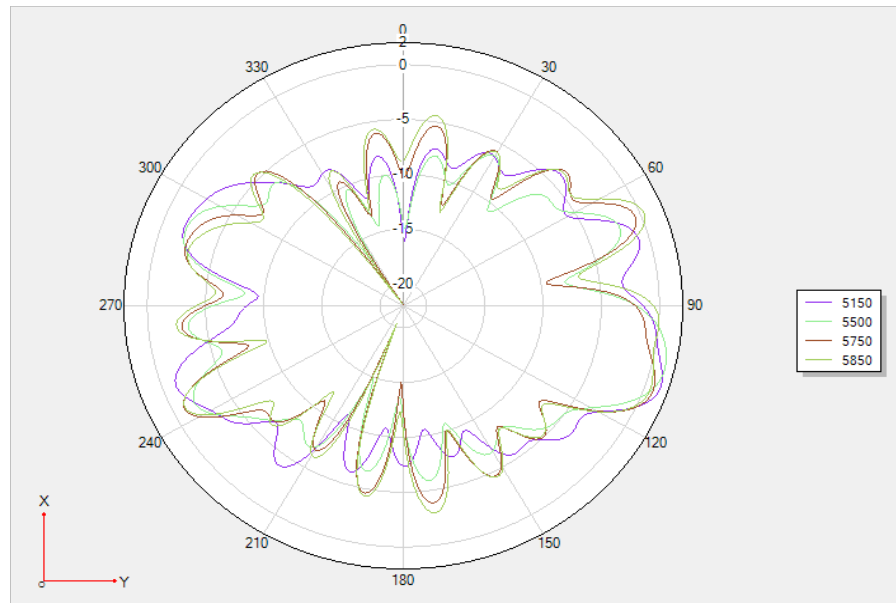
Phi 0 2D图



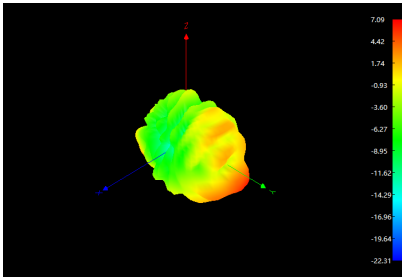
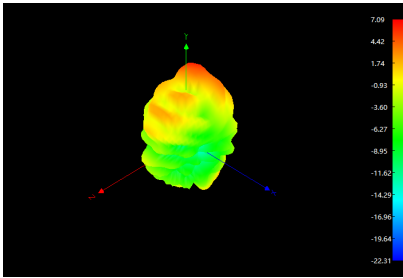
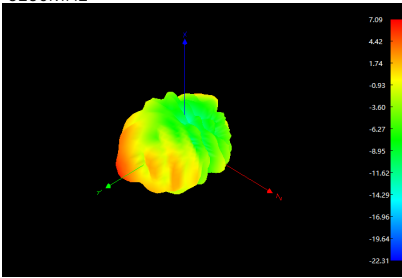
Phi 90 2D图



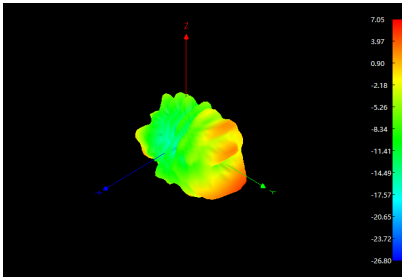
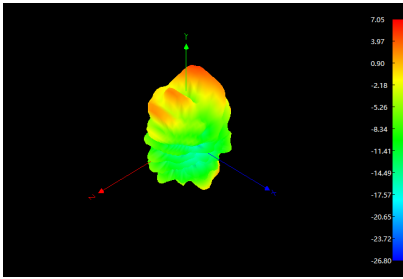
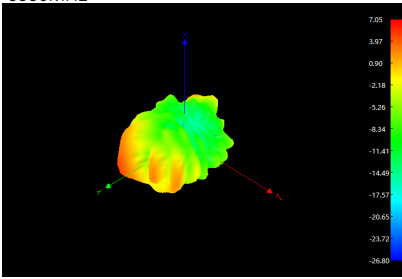
Theta 90 2D图



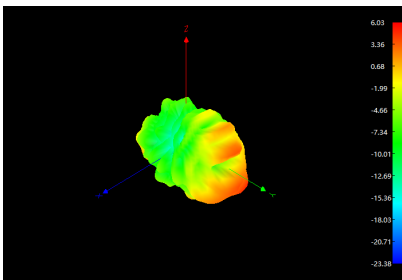
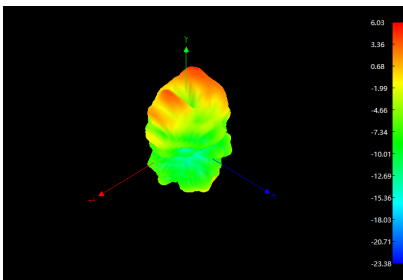
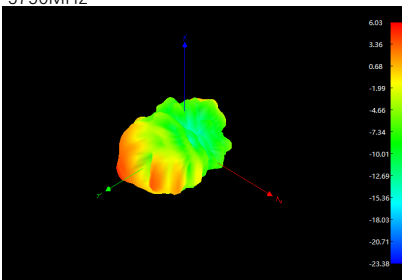
5150MHz



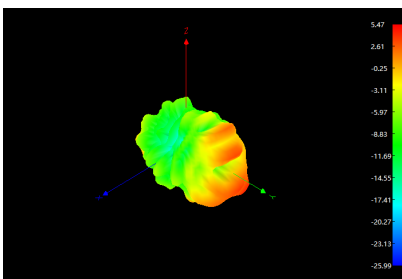
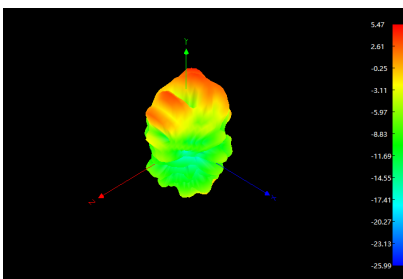
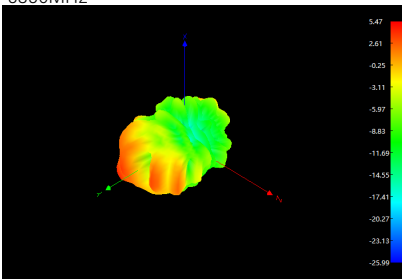
5550MHz



5750MHz



5850MHz



驻波比测试

