



深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

# 天线测试报告

Antenna Test Report

*TC: 微步*

*MN: A26PH-MS*

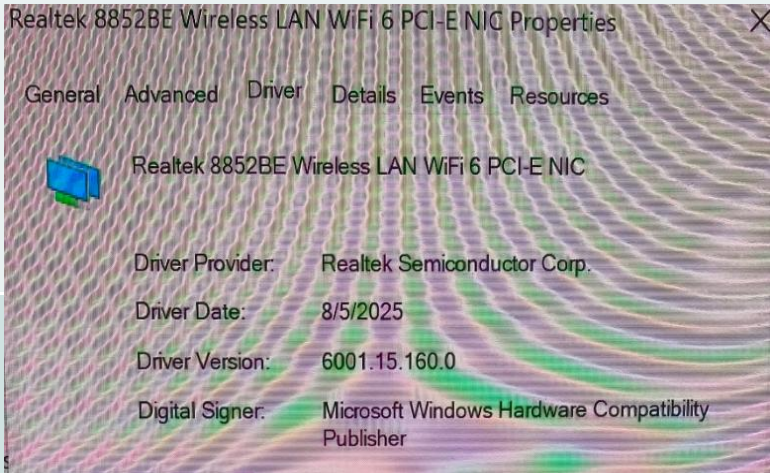
*RF: 戴进平*

*MD: 黄清清*

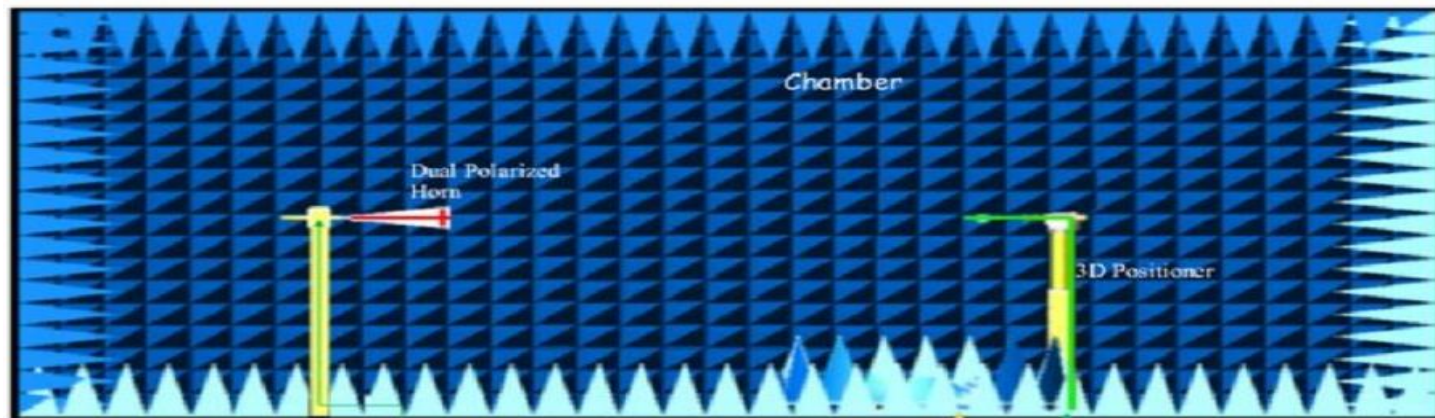
*MP: 19918388579*

*Date: 2026. 05. 10*

*REV :V2. 0*

| WIFI ANT Test information  |                                                                                    |                    |
|----------------------------|------------------------------------------------------------------------------------|--------------------|
| Frequency                  | 2. 4G (2402~2483) Mhz                                                              | 5G (5150~5850) Mhz |
| Module information         |  |                    |
| Driver version information |                                                                                    |                    |

## OTA Chamber Overview

0.1~12.5Ghz  
RF Switch BoxWireless  
Communications  
Test Set 1Wireless  
Communications  
Test Set 2Network  
Analyzer

| Standard |                               |
|----------|-------------------------------|
| Passive  | Agilent<br>HP8753/E5062/E5071 |
| GSM      | Agilent 8960                  |
| CDMA2000 | Agilent 8960                  |
| WCDMA    | Agilent 8960                  |
| TDSCDMA  | Agilent 8960                  |
| LTE      | RS CMW500                     |
| BT       | RS CMU500/200                 |
| WIFI     | Agilent N4010                 |

RF Link

GPIB Link

Optical Link

Serial Link

天线位置  
Antenna position



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## 默认国家码

| 802.11b | Frequency | TRP         |      | TIS          |        |
|---------|-----------|-------------|------|--------------|--------|
|         | 2412      | CH1 11Mbps  | 6.25 | CH1 11Mbps   | -82.22 |
|         | 2437      | CH6 11Mbps  | 6.67 | CH6 11Mbps   | -84.63 |
|         | 2467      | CH11 11Mbps | 6.53 | CH11 11Mbps  | -85.26 |
| 802.11a |           | TRP         |      | TIS          |        |
|         | 5180      | CH36 6Mbps  | 5.94 | CH36 54Mbps  | -71.45 |
|         | 5300      | CH149 6Mbps | 6.63 | CH60 54Mbps  | -72.01 |
|         | 5805      | CH165 6Mbps | 9.33 | CH161 54Mbps | -70.96 |

## US国家码

| 802.11b | Frequency | TRP         |       | TIS          |        |
|---------|-----------|-------------|-------|--------------|--------|
|         | 2412      | CH1 11Mbps  | 16.25 | CH1 11Mbps   | -82.74 |
|         | 2437      | CH6 11Mbps  | 16.12 | CH6 11Mbps   | -84.48 |
|         | 2467      | CH11 11Mbps | 16.21 | CH11 11Mbps  | -85.21 |
| 802.11a |           | TRP         |       | TIS          |        |
|         | 5180      | CH36 6Mbps  | 14.31 | CH36 54Mbps  | -71.79 |
|         | 5300      | CH149 6Mbps | 14.84 | CH60 54Mbps  | -72.06 |
|         | 5805      | CH165 6Mbps | 13.86 | CH161 54Mbps | -71.08 |



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## BT天线实测 BT Antenna test

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：15+m

结果：播放音乐流畅，无杂音。



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WIFI-吞吐量测试-RVR  
Throughput test

RVR测试系统 (2. 4G-AX-40M-2-CH1)

|                             |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
|-----------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|--|-------|------|------|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| RVR测试系统(2. 4G-AX-40M-2-CH1) |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| TX                          |     | <div>WiFi RvR 测试数据(2G_ax_40M_CH1I_TX)</div> <table><tr><td>角度\衰减</td><td>0dB</td><td>10dB</td><td>20dB</td><td>30dB</td><td>40dB</td></tr><tr><td>0°</td><td>452</td><td>446</td><td>398</td><td>350</td><td>272</td></tr><tr><td>90°</td><td>455</td><td>449</td><td>440</td><td>391</td><td>264</td></tr><tr><td>180°</td><td>449</td><td>454</td><td>395</td><td>353</td><td>235</td></tr><tr><td>270°</td><td>450</td><td>452</td><td>449</td><td>388</td><td>253</td></tr></table> |     |     |     |  | 角度\衰减 | 0dB  | 10dB | 20dB | 30dB | 40dB | 0° | 452 | 446 | 398 | 350 | 272 | 90° | 455 | 449 | 440 | 391 | 264 | 180° | 449 | 454 | 395 | 353 | 235 | 270° | 450 | 452 | 449 | 388 | 253 |
| 角度\衰减                       | 0dB |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |  | 10dB  | 20dB | 30dB | 40dB |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 0°                          | 452 | 446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 398 | 350 | 272 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 90°                         | 455 | 449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 440 | 391 | 264 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 180°                        | 449 | 454                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 395 | 353 | 235 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 270°                        | 450 | 452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 449 | 388 | 253 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| RX                          |     | <div>WiFi RvR 测试数据(2G_ax_40M_CH1I_RX)</div> <table><tr><td>角度\衰减</td><td>0dB</td><td>10dB</td><td>20dB</td><td>30dB</td><td>40dB</td></tr><tr><td>0°</td><td>423</td><td>381</td><td>381</td><td>281</td><td>179</td></tr><tr><td>90°</td><td>475</td><td>474</td><td>465</td><td>327</td><td>152</td></tr><tr><td>180°</td><td>425</td><td>382</td><td>353</td><td>197</td><td>140</td></tr><tr><td>270°</td><td>479</td><td>477</td><td>479</td><td>290</td><td>131</td></tr></table> |     |     |     |  | 角度\衰减 | 0dB  | 10dB | 20dB | 30dB | 40dB | 0° | 423 | 381 | 381 | 281 | 179 | 90° | 475 | 474 | 465 | 327 | 152 | 180° | 425 | 382 | 353 | 197 | 140 | 270° | 479 | 477 | 479 | 290 | 131 |
| 角度\衰减                       | 0dB |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |  | 10dB  | 20dB | 30dB | 40dB |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 0°                          | 423 | 381                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 381 | 281 | 179 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 90°                         | 475 | 474                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 465 | 327 | 152 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 180°                        | 425 | 382                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 353 | 197 | 140 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 270°                        | 479 | 477                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 479 | 290 | 131 |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 图片                          |     | 图片                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |     |     |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |
| 备注                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |

## WIFI-吞吐量测试-RVR Throughput test

| RVR测试系统 (5G-AX-80M-2-CH36) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |      |      |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|-------|------|------|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|----|
| TX                         | <div>WiFi RvR 测试数据(5G_ax_80M_CH36_TX)</div> <table><tr><td>角度\衰减</td><td>0dB</td><td>10dB</td><td>20dB</td><td>30dB</td><td>40dB</td></tr><tr><td>0°</td><td>880</td><td>879</td><td>766</td><td>620</td><td>265</td></tr><tr><td>90°</td><td>869</td><td>864</td><td>701</td><td>558</td><td>248</td></tr><tr><td>180°</td><td>873</td><td>744</td><td>593</td><td>481</td><td>209</td></tr><tr><td>270°</td><td>883</td><td>872</td><td>869</td><td>686</td><td>409</td></tr></table> |      |      |      |      | 角度\衰减 | 0dB  | 10dB | 20dB | 30dB | 40dB | 0° | 880 | 879 | 766 | 620 | 265 | 90° | 869 | 864 | 701 | 558 | 248 | 180° | 873 | 744 | 593 | 481 | 209 | 270° | 883 | 872 | 869 | 686 | 409 | RX |
| 角度\衰减                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |      |      | 0dB   | 10dB | 20dB | 30dB | 40dB |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 0°                         | 880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 879  | 766  | 620  | 265  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 90°                        | 869                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 864  | 701  | 558  | 248  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 180°                       | 873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 744  | 593  | 481  | 209  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 270°                       | 883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 872  | 869  | 686  | 409  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 图片                         | <div>WiFi RvR 测试数据(5G_ax_80M_CH36_RX)</div> <table><tr><td>角度\衰减</td><td>0dB</td><td>10dB</td><td>20dB</td><td>30dB</td><td>40dB</td></tr><tr><td>0°</td><td>984</td><td>989</td><td>944</td><td>683</td><td>329</td></tr><tr><td>90°</td><td>978</td><td>874</td><td>879</td><td>681</td><td>317</td></tr><tr><td>180°</td><td>830</td><td>745</td><td>680</td><td>580</td><td>374</td></tr><tr><td>270°</td><td>989</td><td>975</td><td>932</td><td>735</td><td>418</td></tr></table> |      |      |      |      | 角度\衰减 | 0dB  | 10dB | 20dB | 30dB | 40dB | 0° | 984 | 989 | 944 | 683 | 329 | 90° | 978 | 874 | 879 | 681 | 317 | 180° | 830 | 745 | 680 | 580 | 374 | 270° | 989 | 975 | 932 | 735 | 418 | 图片 |
| 角度\衰减                      | 0dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10dB | 20dB | 30dB | 40dB |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 0°                         | 984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 989  | 944  | 683  | 329  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 90°                        | 978                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 874  | 879  | 681  | 317  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 180°                       | 830                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 745  | 680  | 580  | 374  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 270°                       | 989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 975  | 932  | 735  | 418  |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |
| 备注                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |      |      |       |      |      |      |      |      |    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |    |

## 环境处理

Environmental treatment



环境处理

Environmental treatment



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环境处理

Environmental treatment



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环境处理

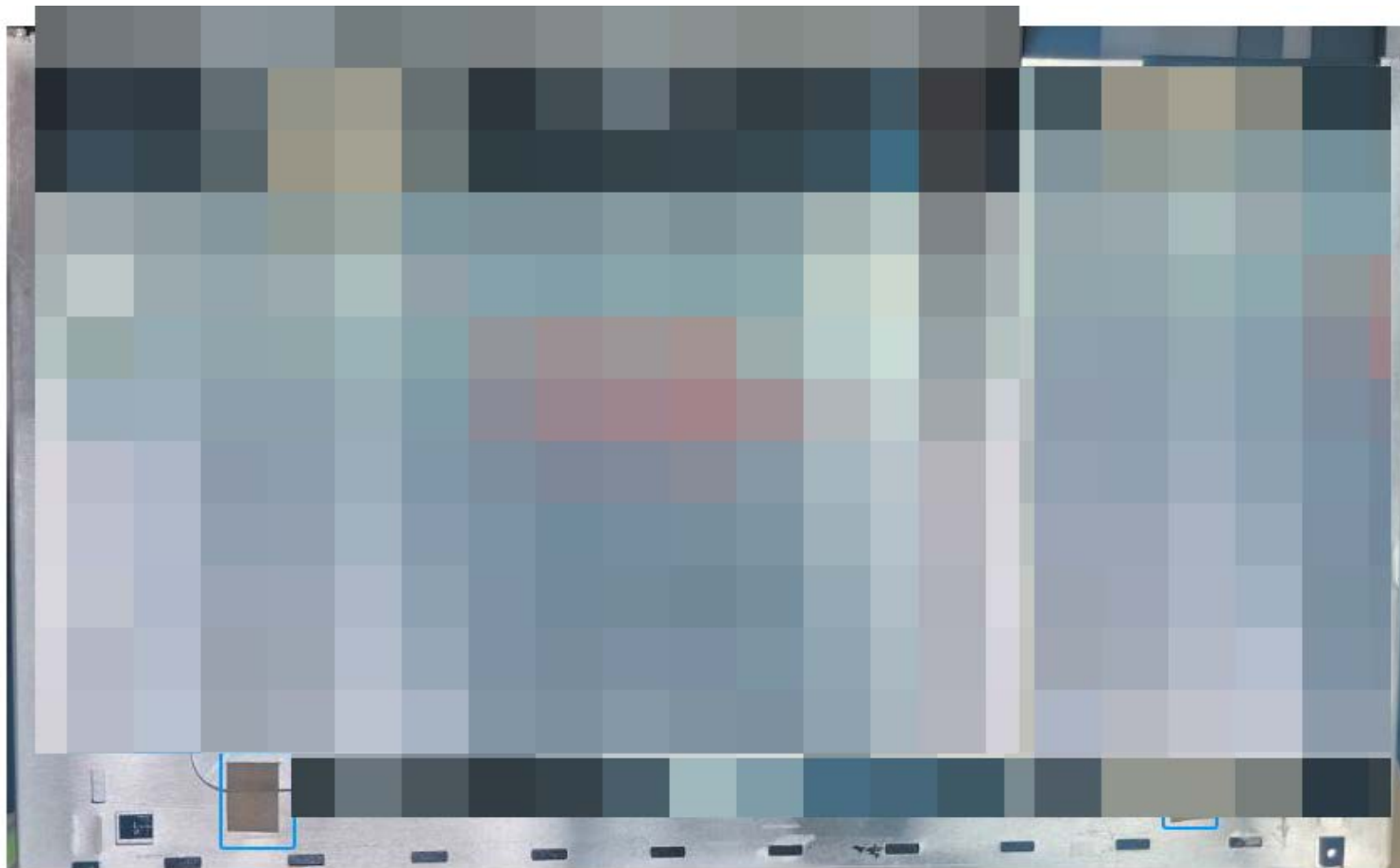
Environmental treatment



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环境处理

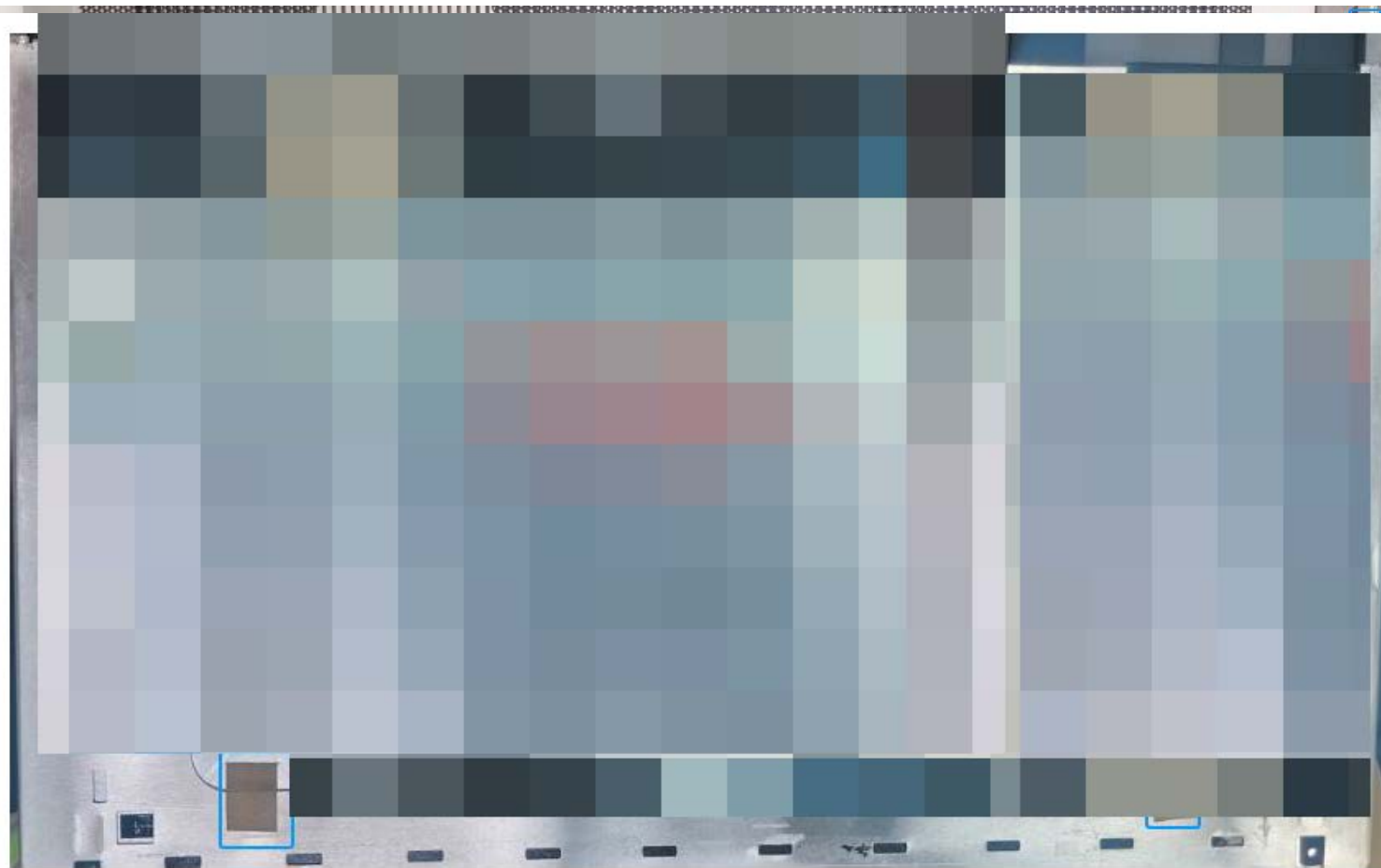
Environmental treatment



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## 无源测试数据 Passive test data

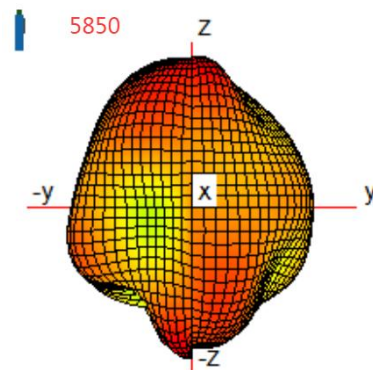
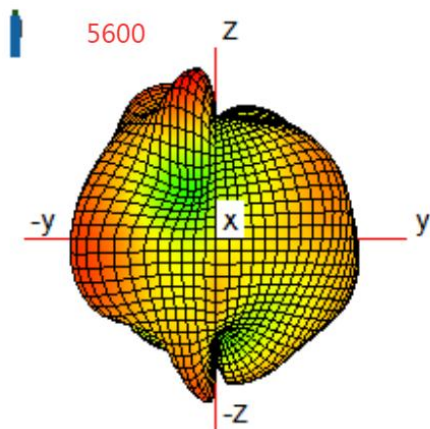
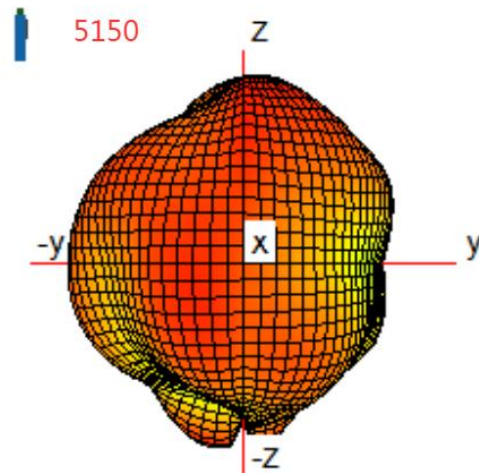
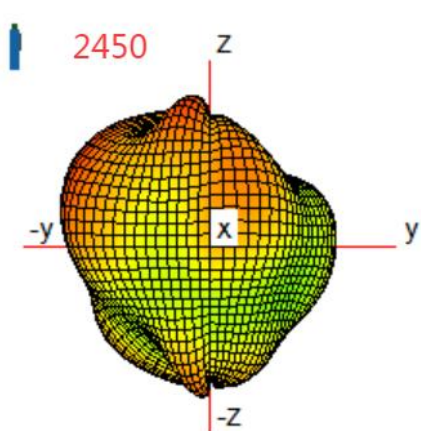
### ANT1 GAIN&Efficiency-WIFI2.4/5G/BT

| 测试频段    | 测试频率 | Efficiency-DB | Efficiency-% | Gain(dBi) |
|---------|------|---------------|--------------|-----------|
| PASSIVE | 2400 | -6.02         | 24.99        | 2.05      |
| PASSIVE | 2410 | -5.99         | 25.15        | 2.17      |
| PASSIVE | 2420 | -5.93         | 25.5         | 2.17      |
| PASSIVE | 2430 | -5.81         | 26.24        | 2.07      |
| PASSIVE | 2440 | -5.68         | 27.03        | 1.92      |
| PASSIVE | 2450 | -5.60         | 27.53        | 1.62      |
| PASSIVE | 2460 | -5.67         | 27.1         | 1.21      |
| PASSIVE | 2470 | -5.75         | 26.62        | 0.84      |
| PASSIVE | 2480 | -5.97         | 25.29        | 0.76      |
| PASSIVE | 2490 | -6.18         | 24.1         | 0.49      |
| PASSIVE | 2500 | -6.31         | 23.4         | 0.12      |
| PASSIVE | 5150 | -5.88         | 25.84        | -2.97     |
| PASSIVE | 5250 | -6.38         | 23.04        | -1.15     |
| PASSIVE | 5350 | -5.89         | 25.76        | 0.33      |
| PASSIVE | 5450 | -5.77         | 26.46        | -1.76     |
| PASSIVE | 5470 | -6.15         | 24.29        | -2.5      |
| PASSIVE | 5490 | -6.30         | 23.45        | -2.25     |
| PASSIVE | 5600 | -6.27         | 23.61        | 0.13      |
| PASSIVE | 5725 | -6.00         | 25.1         | -1.31     |
| PASSIVE | 5785 | -6.28         | 23.55        | -2.06     |
| PASSIVE | 5825 | -6.70         | 21.39        | -2.57     |
| PASSIVE | 5830 | -6.73         | 21.23        | -2.59     |
| PASSIVE | 5850 | -6.88         | 20.51        | -2.75     |



无源测试数据  
Passive test data

ANT1 Direction of figure(wifi2.4/5G/BT)





## ANT2 GAIN&Efficiency-WIFI2.4/5G

| 测试频段    | 测试频率 | Efficiency-DB | Efficiency-% | Gain(dBi) |
|---------|------|---------------|--------------|-----------|
| PASSIVE | 2400 | -5.10         | 30.91        | 1.18      |
| PASSIVE | 2410 | -5.05         | 31.29        | 1.66      |
| PASSIVE | 2420 | -5.09         | 30.98        | 1.82      |
| PASSIVE | 2430 | -5.21         | 30.14        | 1.81      |
| PASSIVE | 2440 | -5.34         | 29.26        | 1.76      |
| PASSIVE | 2450 | -5.50         | 28.17        | 1.74      |
| PASSIVE | 2460 | -5.77         | 26.51        | 1.72      |
| PASSIVE | 2470 | -5.94         | 25.49        | 1.57      |
| PASSIVE | 2480 | -6.22         | 23.86        | 1.39      |
| PASSIVE | 2490 | -6.54         | 22.19        | 1.03      |
| PASSIVE | 2500 | -6.79         | 20.93        | 0.58      |
| PASSIVE | 5150 | -6.46         | 22.61        | -2.26     |
| PASSIVE | 5250 | -6.26         | 23.67        | -1.45     |
| PASSIVE | 5350 | -6.08         | 24.64        | -0.31     |
| PASSIVE | 5450 | -5.88         | 25.83        | -0.63     |
| PASSIVE | 5470 | -6.00         | 25.1         | -0.48     |
| PASSIVE | 5490 | -6.25         | 23.69        | -0.06     |
| PASSIVE | 5600 | -6.11         | 24.49        | 3         |
| PASSIVE | 5725 | -5.99         | 25.19        | 2.69      |
| PASSIVE | 5785 | -5.86         | 25.97        | 3.22      |
| PASSIVE | 5825 | -6.33         | 23.28        | 2.43      |
| PASSIVE | 5830 | -6.41         | 22.84        | 2.3       |
| PASSIVE | 5850 | -6.71         | 21.35        | 1.56      |



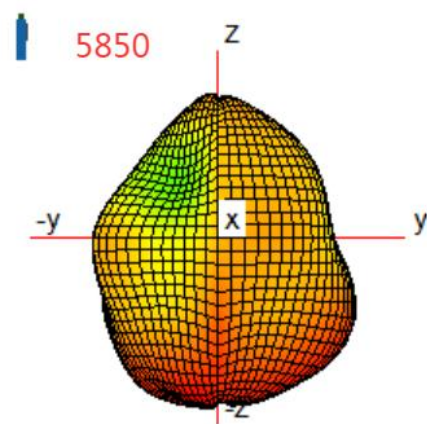
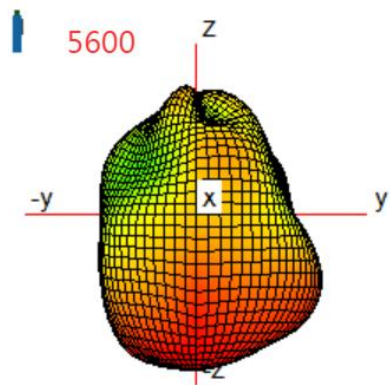
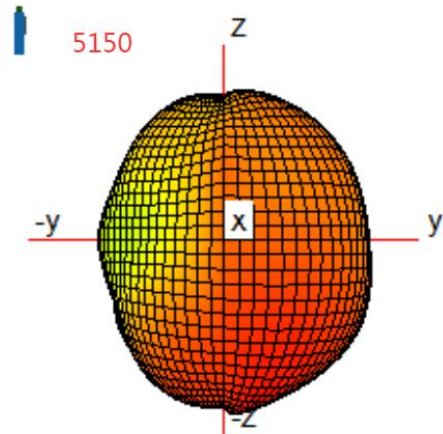
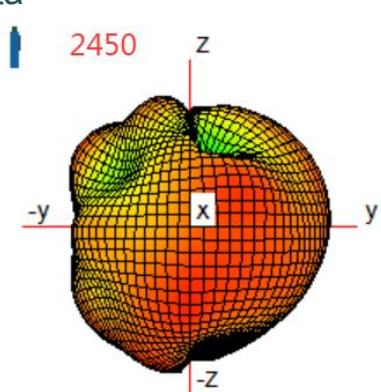
ANTENNA

深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

无源测试数据  
Passive test data

ANT2 Direction of figure(wifi2.4/5G)



合作共赢

