

Antenna
Test Report

BT3L Antenna test report

Version 1.0.0

Date: 2020-05-12

NO: 000000001



| | |
|---------------|-------------------|
| Product Name: | BT3L |
| Antenna Type: | PCB antenna |
| Writer: | Yinhua Zhang |
| Maximum | Gain: 2.5dBi |
| | Efficiency:62.86% |

Content

| | |
|---|----|
| 1. General Description | 3 |
| 2. Technical Information | 3 |
| 3. Test Standards..... | 3 |
| 4. Test Item..... | 4 |
| 5. Test Photo | 4 |
| Appendix A S11/VSWR..... | 5 |
| Appendix B Gain and Efficiency | 6 |
| Appendix C Radiation Pattern(1D and 3D) | 7 |
| Appendix D Test Setup Photo | 9 |
| Appendix E EUT Photo..... | 10 |

1. General Description

| | |
|---------------|--------------|
| EUT Name | BT3L Antenna |
| Wireless type | Bluetooth |
| Antenna Type | PCB antenna |
| Dimensions | Appendix A |

2. Technical Information

| | |
|-----------------|-----------------------|
| Frequency Range | 2402MHz~2480MHz |
| Test Frequency | 2400,2410.....2500MHz |

3. Test Standards

| Identity | Document Title |
|---------------|---|
| IEEE 149-1979 | IEEE Standard Test Procedures for Antennas |

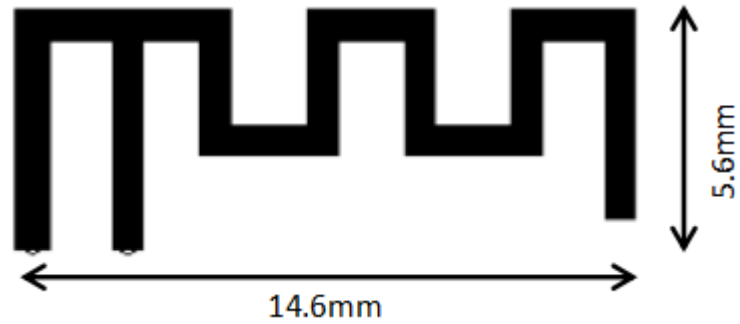
4. Test Item

| Report Section | Description |
|----------------|-------------------------------|
| Appendix B | S11/VSWR |
| Appendix C | Gain and Efficiency |
| Appendix D | Radiation Pattern (1D and 3D) |

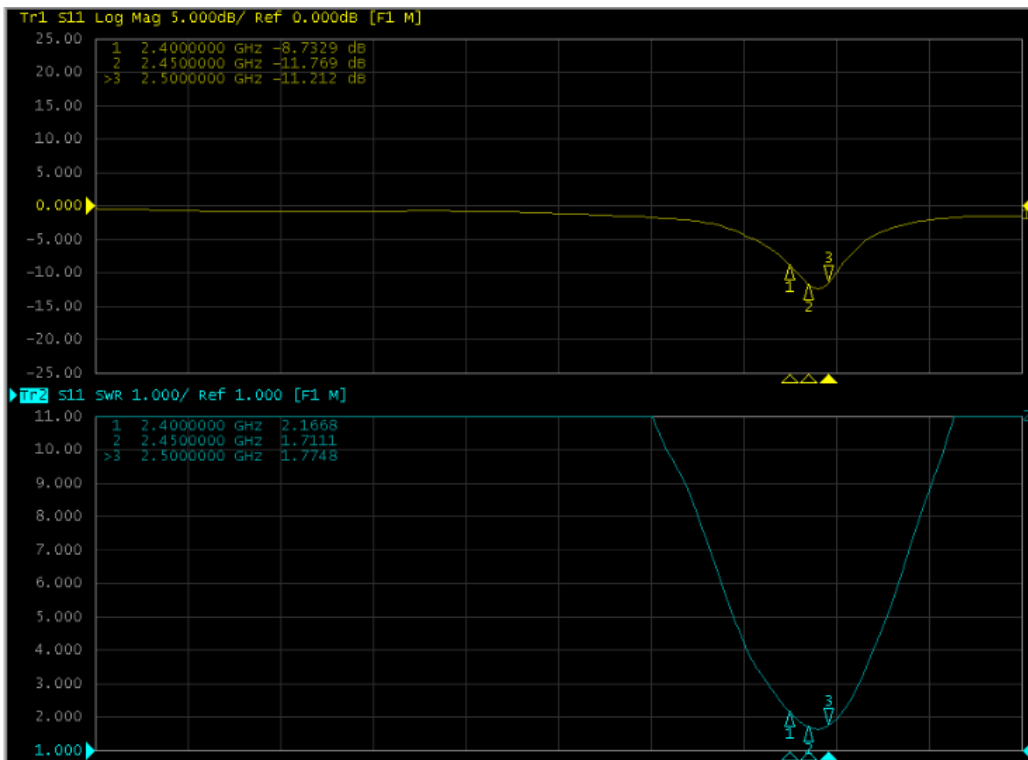
5. Test Photo

| Report Section | Description |
|----------------|------------------|
| Appendix E | Test Setup Photo |

Appendix A Antenna Dimension



Appendix B S11/VSWR



| Frequency (MHz) | 2400 | 2450 | 2500 |
|-----------------|-------|--------|--------|
| Return Loss | -8.73 | -11.76 | -11.21 |

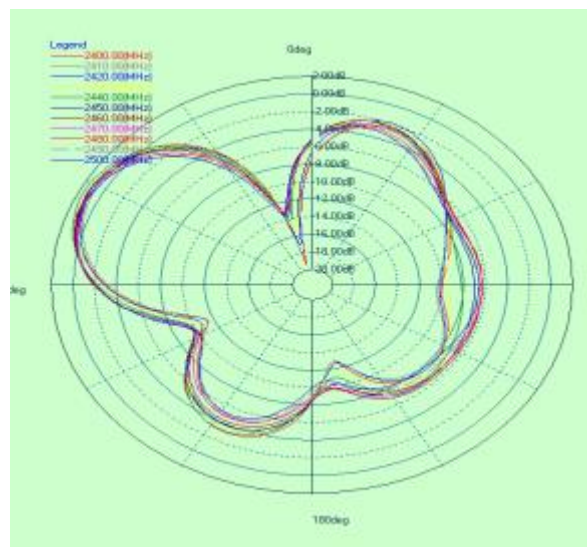
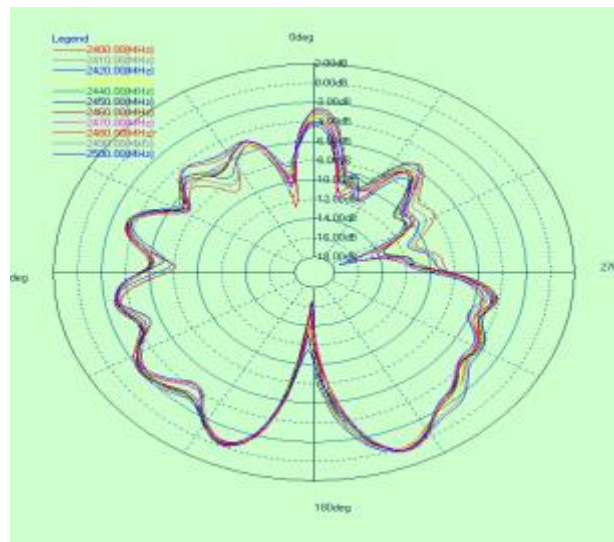
| | | | |
|------|------|------|------|
| VSWR | 2.16 | 1.71 | 1.77 |
|------|------|------|------|

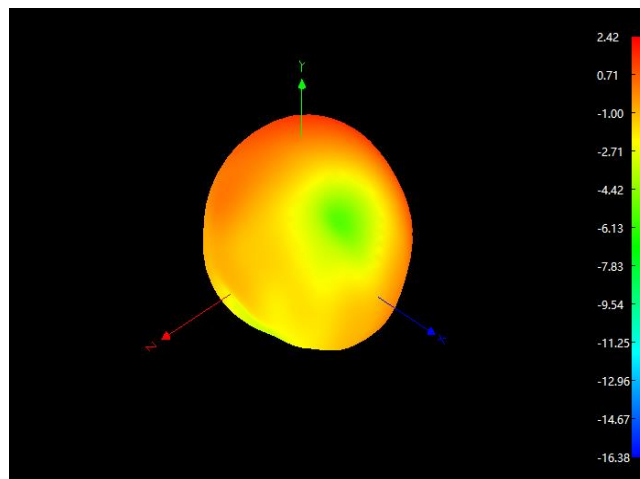
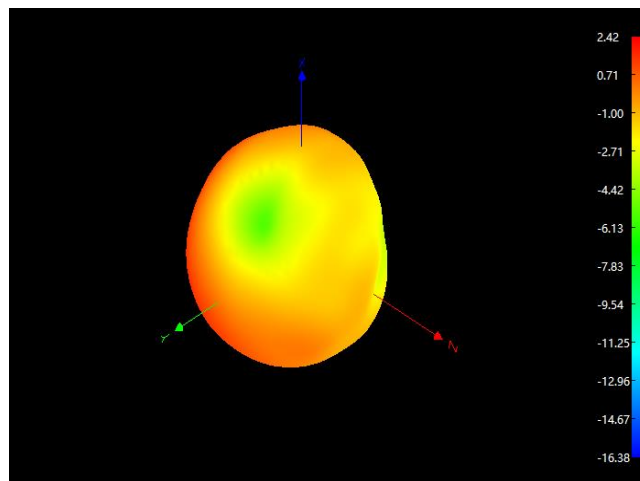
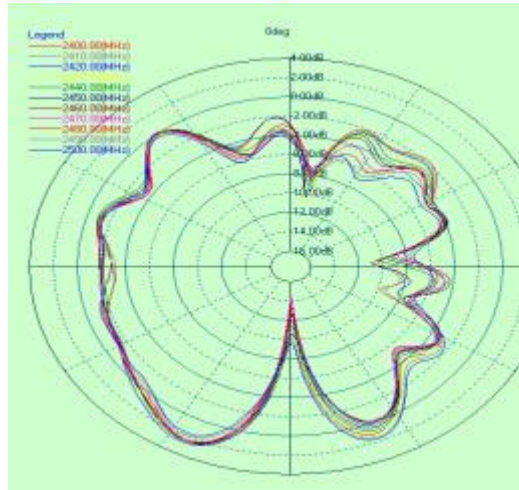
Appendix C Gain and Efficiency

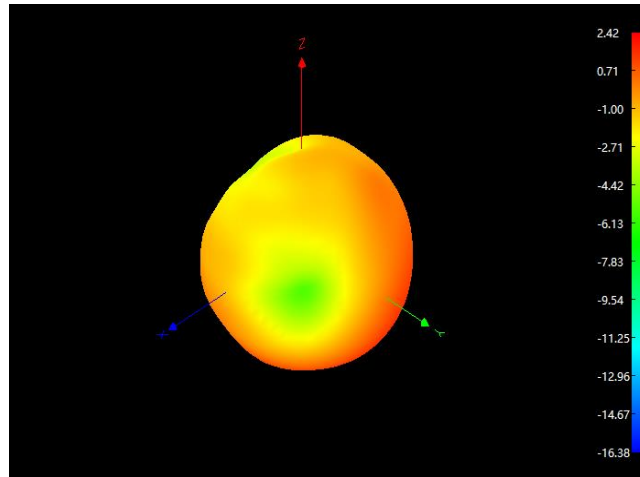
| Frequency (MHz) | Efficiency(%) | Gain (dBi) |
|-----------------|---------------|------------|
| 2400 | 52.29% | 1.62 |
| 2410 | 52.17% | 1.71 |
| 2420 | 53.14% | 1.93 |
| 2430 | 54.16% | 1.98 |
| 2440 | 57.62% | 2.00 |
| 2450 | 59.64% | 2.17 |
| 2460 | 61.55% | 2.45 |
| 2470 | 60.64% | 2.38 |

| | | |
|------|--------|------|
| 2480 | 62.86% | 2.50 |
| 2490 | 59.85% | 2.30 |
| 2500 | 60.41% | 2.49 |

Appendix D Radiation Pattern(1D and 3D)







Appendix E Test Setup Photo

