



HUEIZHOU DONZHI ELECTRONICS CO.,LTD

FOR APPROVAL

Customer: Dongguan Zhiyun IOT Co., Ltd.

Part NO.:

Part Name: FPC built-in antenna

Pat Models:

| Manufacturer Confirmation Column |             |             |             |
|----------------------------------|-------------|-------------|-------------|
| Confirmation seal                | Prepared by | Reviewed by | Approved by |
|                                  | Zenghongfa  | Luoqujian   | Luyongxing  |

| Customer Recognition Column |           |             |             |
|-----------------------------|-----------|-------------|-------------|
| Recognition seal            | Tested by | Reviewed by | Approved by |
|                             |           |             |             |

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## WiFi Antenna Passive Test Data

| Frequency(MHz) | Efficiency(%) |  | Frequency(MHz) | Gain(dBi) |
|----------------|---------------|--|----------------|-----------|
| 2400           | 10.08         |  | 2400           | 1.17      |
| 2410           | 10.53         |  | 2410           | 1.2       |
| 2420           | 11.4          |  | 2420           | 1.45      |
| 2430           | 12.53         |  | 2430           | 1.65      |
| 2440           | 13.39         |  | 2440           | 2.03      |
| 2450           | 14.05         |  | 2450           | 1.71      |
| 2460           | 14.52         |  | 2460           | 1.47      |
| 2470           | 14.98         |  | 2470           | 0.5       |
| 2480           | 16.62         |  | 2480           | -0.67     |
| 2490           | 19.09         |  | 2490           | -1.25     |
| 2500           | 20.77         |  | 2500           | -2.05     |

## WiFiAntenna Passive Test Data

### Efficiency

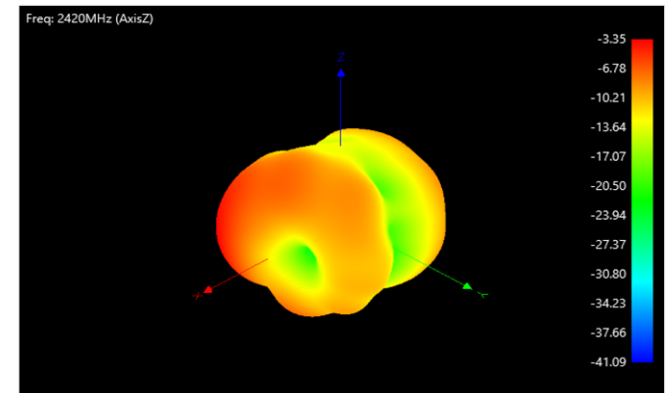
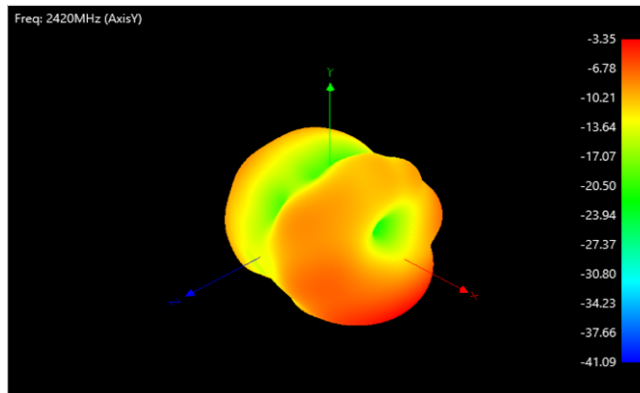
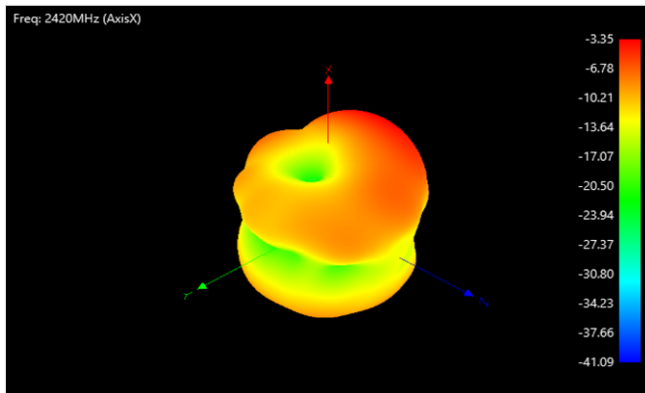
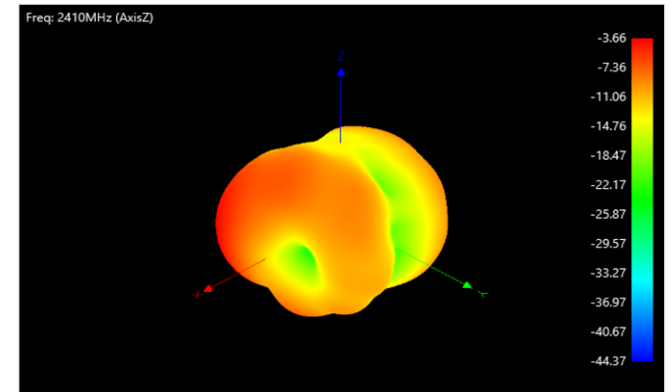
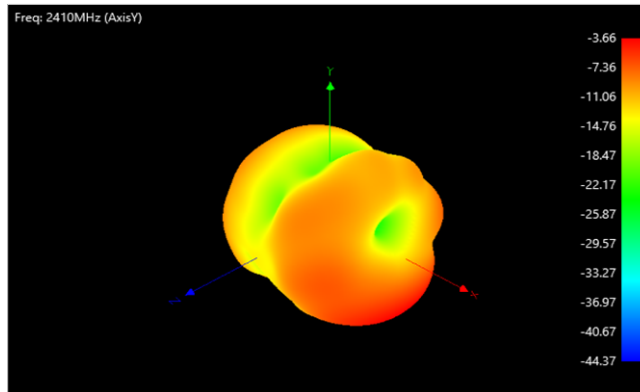
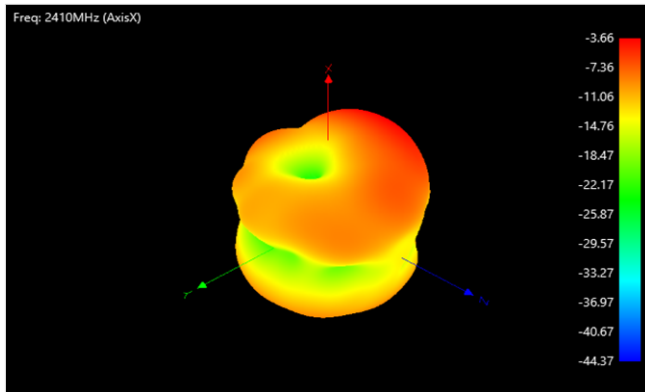
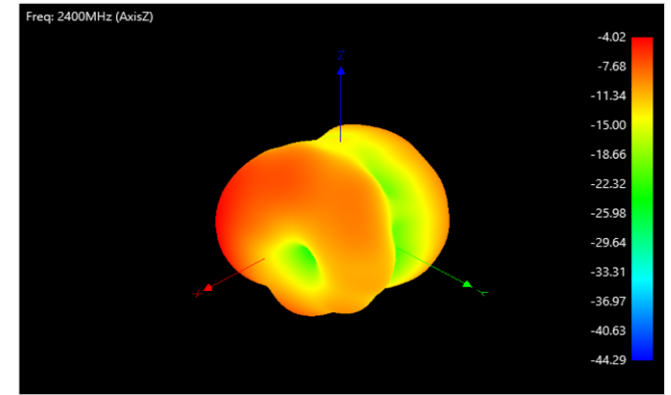
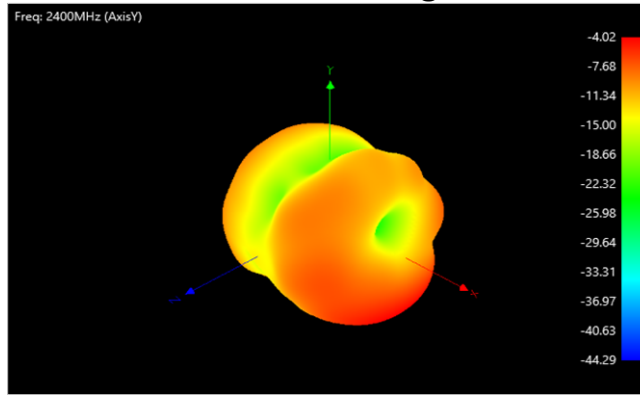
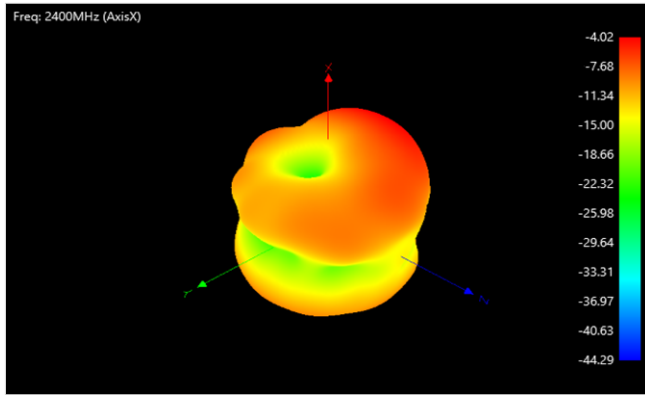
| Frequency(MHz) | Efficiency(%) | Freq(MHz) | Efficiency(%) | Freq(MHz) | Efficiency(%) |
|----------------|---------------|-----------|---------------|-----------|---------------|
| 5000           | 38.74         | 5000      | 47.5          | 5000      | 21.78         |
| 5050           | 38.47         | 5050      | 43.94         | 5050      | 20.34         |
| 5100           | 39.71         | 5100      | 45.82         | 5100      | 21.07         |
| 5150           | 42.63         | 5150      | 46.27         | 5150      | 21.41         |
| 5200           | 48.24         | 5200      | 46.83         | 5200      | 22.43         |
| 5250           | 50.14         | 5250      | 49.29         | 5250      | 68.44         |
| 5300           | 48.03         | 5300      | 56.35         | 5300      | 71.25         |
| 5350           | 40.33         | 5350      | 77.23         | 5350      | 76.64         |
| 5400           | 32.24         | 5400      | 59.68         | 5400      | 73.99         |
| 5450           | 26.05         | 5450      | 75.8          | 5450      | 74.8          |
| 5500           | 22.96         | 5500      | 72.1          | 5500      | 68.14         |

## WiFiAntenna Passive Test Data

### Gain

| Frequency(MHz) | Gain(dBi) | Frequency(MHz) | Gain(dBi) |
|----------------|-----------|----------------|-----------|
| 5000           | 1.17      | 5500           | -2.05     |
| 5050           | 1.2       | 5550           | -1.91     |
| 5100           | 1.45      | 5600           | -2.16     |
| 5150           | 1.65      | 5650           | -3.04     |
| 5200           | 2.2       | 5700           | -2.29     |
| 5250           | 1.71      | 5750           | -1.98     |
| 5300           | 1.47      | 5800           | -1.28     |
| 5350           | 0.5       | 5850           | -0.66     |
| 5400           | -0.67     | 5900           | 0.03      |

## 3D drawing





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1. Product Parameters    Product Name:    2.4G FPC built-in antenna

| Mechanical Performance Indicators |            |                        |            |
|-----------------------------------|------------|------------------------|------------|
| Size:                             | 36*9.1mm   | Wire length:           | 80mm       |
| Material:                         | FPC        | Color:                 | black      |
| Terminal:                         | IPEX Gen-I | Operating temperature: | -40°C±85°C |

| Electrical Performance Indicators |              |                      |                  |
|-----------------------------------|--------------|----------------------|------------------|
| Frequency range:                  | 2400~2500MHZ | Polarization type:   | Vertical         |
| Impedance:                        | 50Ω          | Radiation direction: | Omni-directional |
| Standing wave ratio:              | ≤1.6         | Operating voltage:   | 5V               |
| Gain:                             | 2DBI         | Bandwidth:           | 100MHZ           |

2. Product Picture

