

**Antenna  
Test Report**

**CB3S Antenna test report**

Version 1.0.0

Date: 2021-04-16

NO: 0000000001

Powered by



Intelligence  
Inside

|               |                  |
|---------------|------------------|
| Product Name: | CB3S             |
| Antenna Type: | PCB antenna      |
| Writer:       | Jianwei Wang     |
| Maximum       | Gain: 1.37dBi    |
|               | Efficiency:47.2% |

Manufacturer: Shenzhen Whale Vision Technology Co., Ltd

Address: Room 510-511, Building A8, Peking University Sci-Tech Park,  
3000-1 Songbai Road,Shiyan Town, Bao'an District, Shenzhen, China

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## 1. General Description

|               |              |
|---------------|--------------|
| EUT Name      | CB3S Antenna |
| Wireless type | BLE          |
| 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<br>for Antennas |

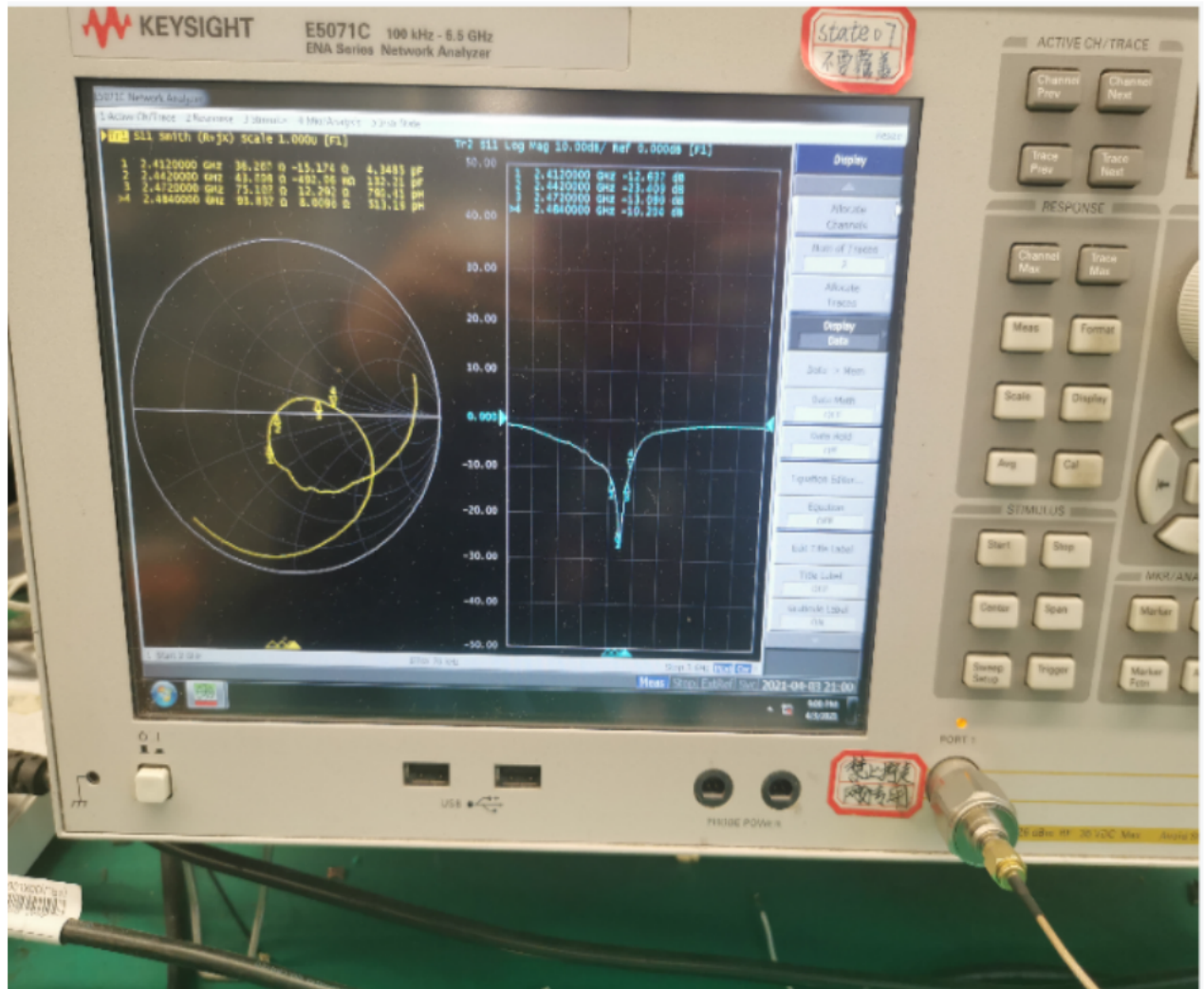
## 4. Test Item

| 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 B S11/VSWR

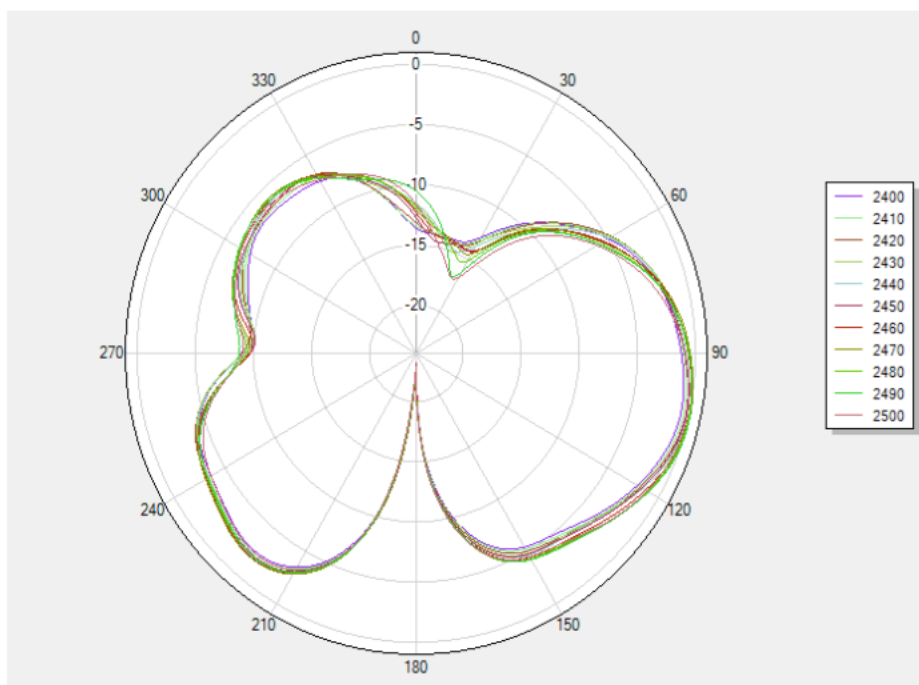


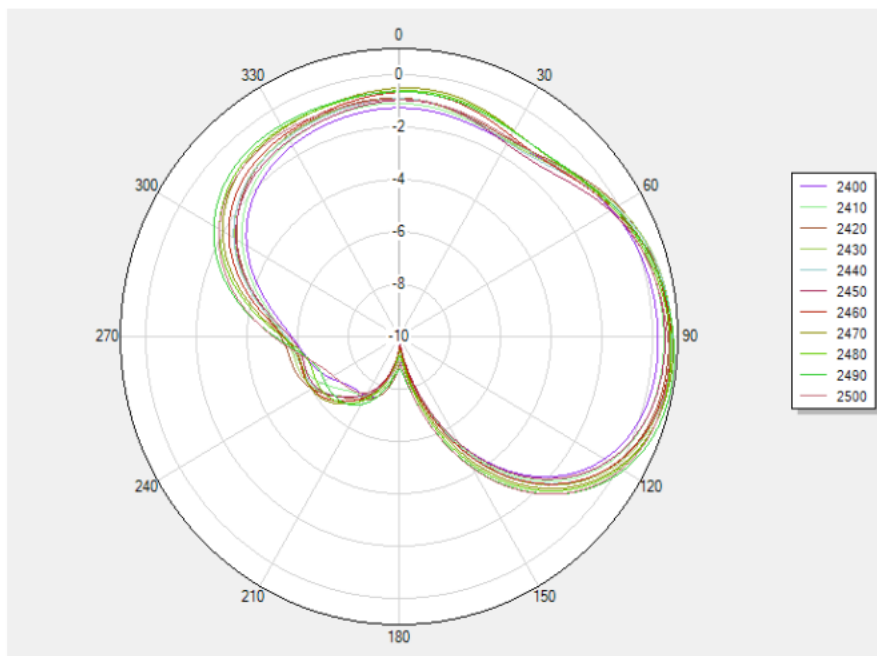
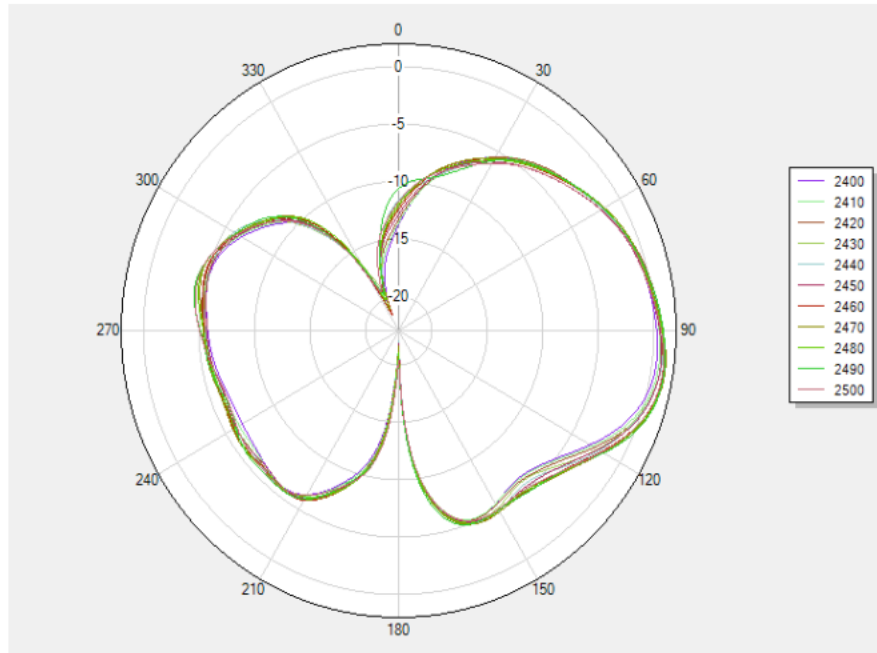
|                 |      |      |      |
|-----------------|------|------|------|
| Frequency (MHz) | 2400 | 2450 | 2500 |
| Return Loss     | -12  | -23  | -13  |

## Appendix C Gain and Efficiency

| Frequency<br>/ MHz | Gain/<br>dB | Efficiency<br>/ % |
|--------------------|-------------|-------------------|
| 2400               | 0.46        | 44.36             |
| 2410               | 0.71        | 45.71             |
| 2420               | 0.92        | 45.92             |
| 2430               | 0.91        | 45.6              |
| 2440               | 0.95        | 45.6              |
| 2450               | 0.93        | 45.29             |
| 2460               | 1.27        | 46.45             |
| 2470               | 1.37        | 46.88             |
| 2480               | 1.25        | 47.21             |
| 2490               | 1.24        | 46.67             |
| 2500               | 1.05        | 44.87             |

## Appendix D Radiation Pattern(2D )





## Appendix E Test Setup Photo

