

Antenna  
Test Report

## CB2S Antenna test report

Version 1.0.0

Date: 2021-03-18

NO: 0000000001

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Intelligence  
Inside

|               |                   |
|---------------|-------------------|
| Product Name: | CB2S              |
| Antenna Type: | PCB antenna       |
| Writer:       | Haigang ruan      |
| Maximum       | Gain: 0.0dBi      |
|               | Efficiency:27.48% |

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## 1. General Description

|               |              |
|---------------|--------------|
| EUT Name      | CB2S Antenna |
| Wireless type | WIFI         |
| 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 |



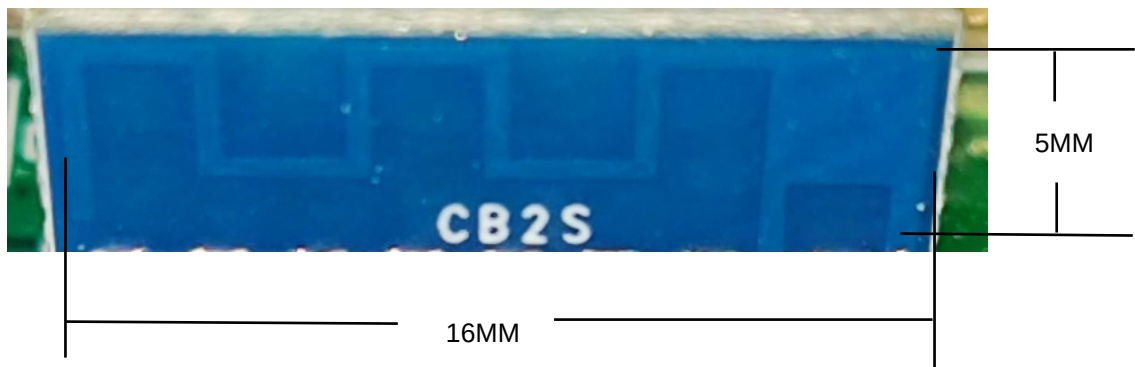
## 4. Test Item

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

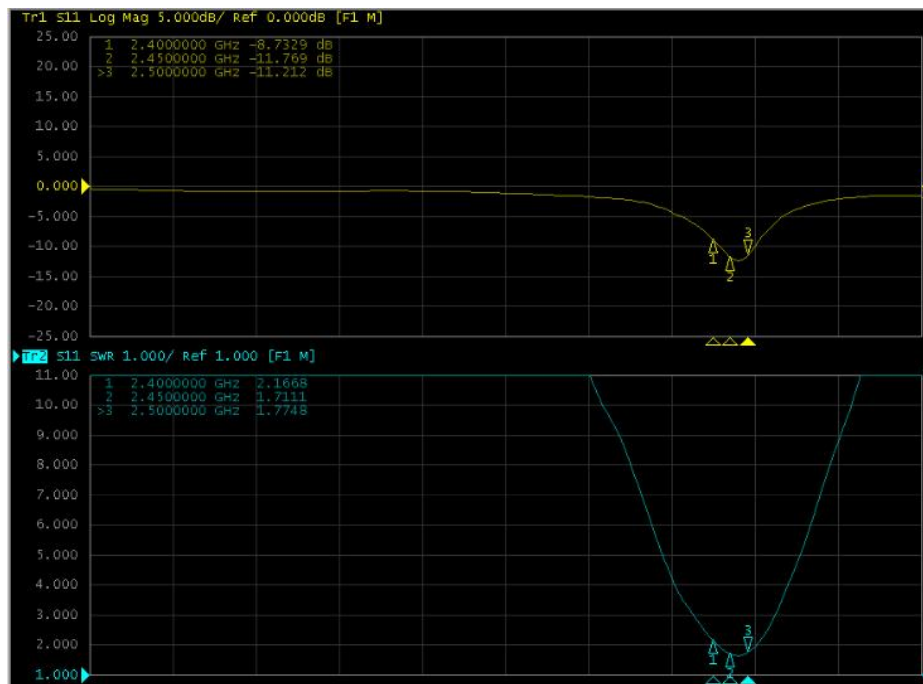
## 5. Test Photo

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

## Appendix A Antenna Dimension



## Appendix B S11/VSWR



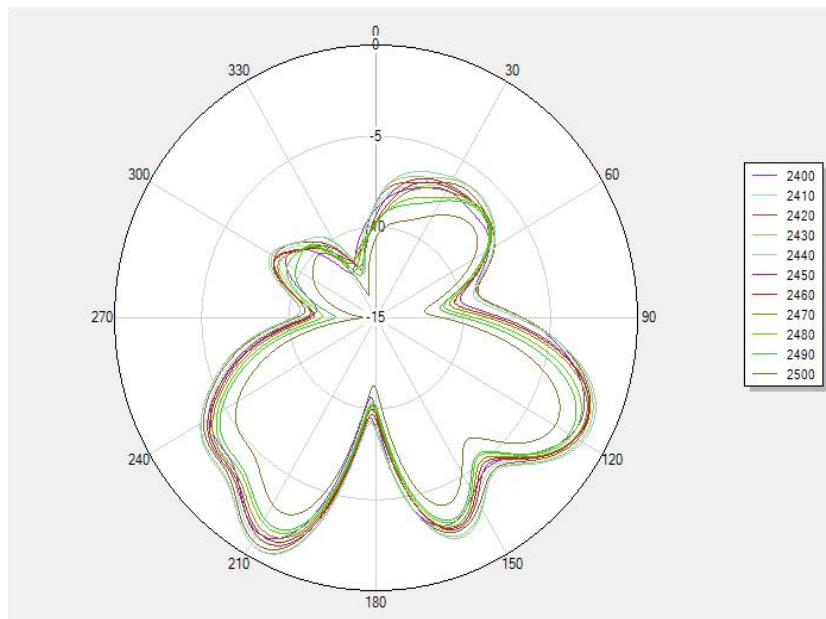
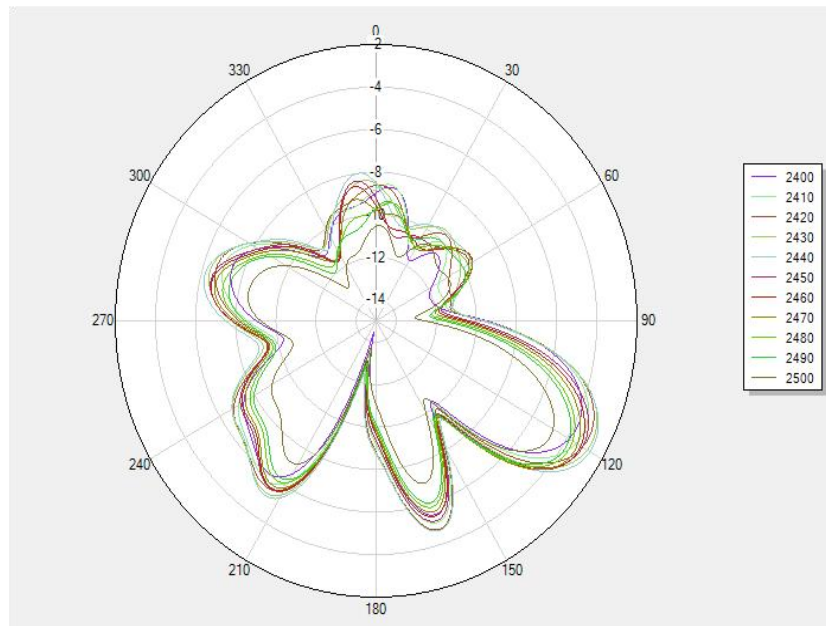
| Frequency (MHz) | 2400  | 2450   | 2500   |
|-----------------|-------|--------|--------|
| Return Loss     | -8.73 | -11.76 | -11.21 |
| VSWR            | 2.16  | 1.71   | 1.77   |

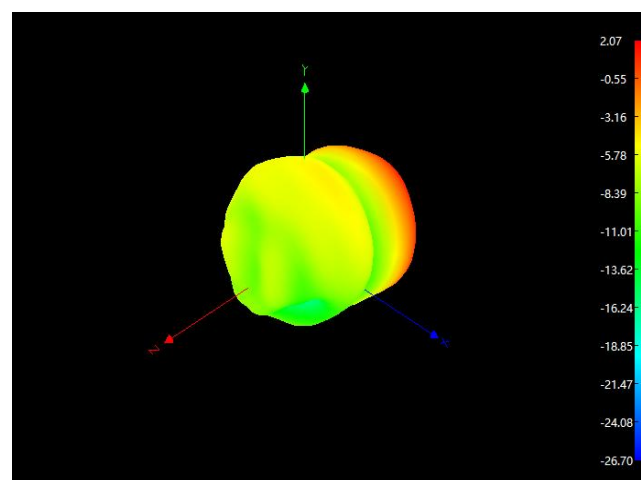
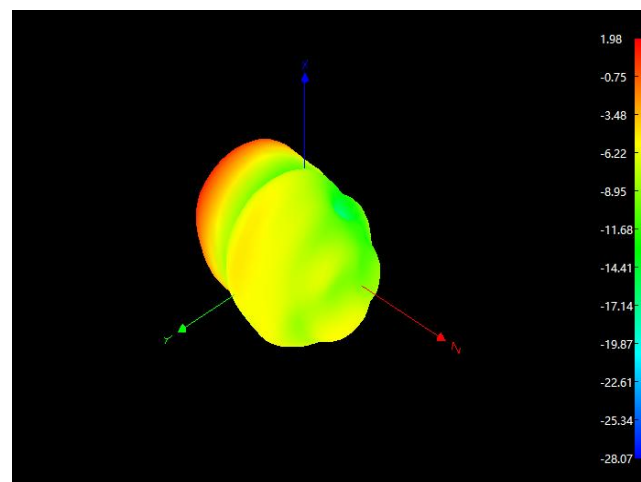
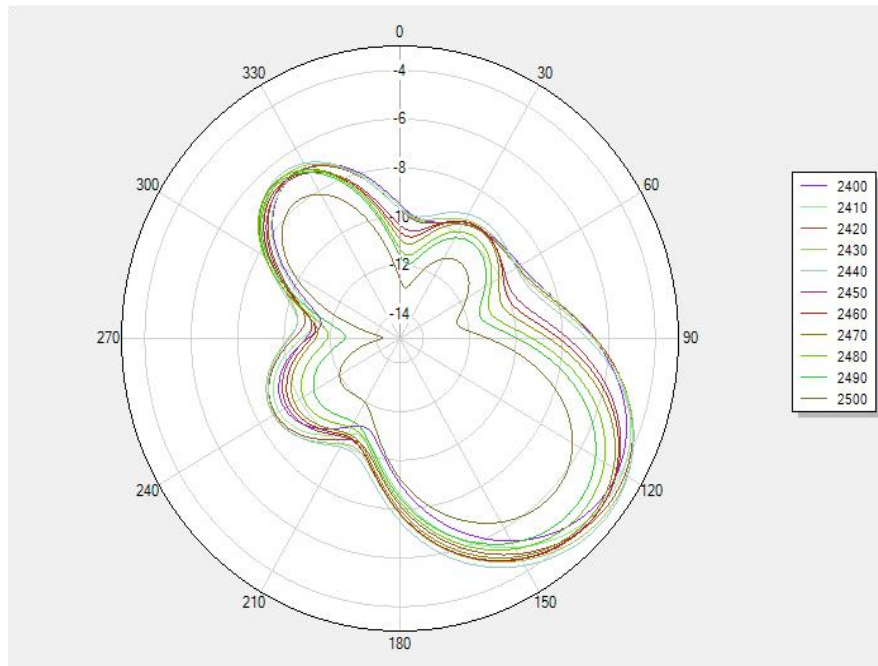


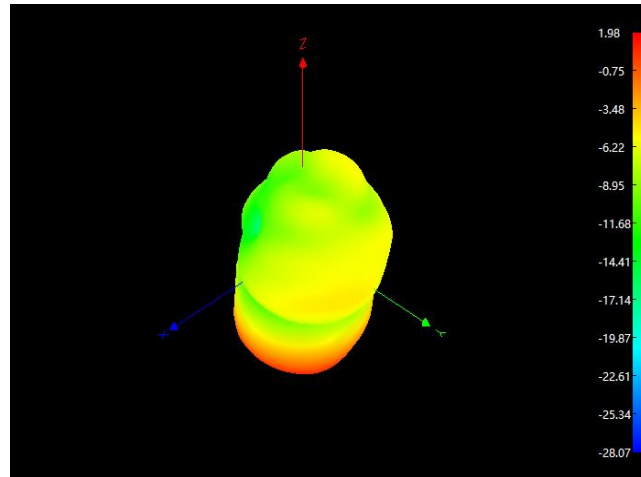
## Appendix C Gain and Efficiency

| Frequency (MHz) | Efficiency(%) | Gain (dBi) |
|-----------------|---------------|------------|
| 2400            | 24.43%        | -0.98      |
| 2410            | 25.64%        | -0.67      |
| 2420            | 26.24%        | -0.37      |
| 2430            | 27.04%        | -0.12      |
| 2440            | 27.48%        | 0.04       |
| 2450            | 25.25%        | -0.45      |
| 2460            | 23.88%        | -0.55      |
| 2470            | 22.65%        | -0.69      |
| 2480            | 21.78%        | -0.93      |
| 2490            | 20.04%        | -1.11      |
| 2500            | 16.18%        | -2.07      |

## Appendix D Radiation Pattern(1D and 3D)







## Appendix E Test Setup Photo

