

Antenna
Test Report

CB2S Antenna test report

Version 1.0.0

Date: 2021-03-18

NO: 0000000001

Powered by



Intelligence
Inside

| | |
|---------------|-------------------|
| M/N: | CB2S |
| Antenna Type: | PCB antenna |
| Writer: | Haigang ruan |
| Gain: | 0.04dBi |
| Maximum | 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 for Antennas |

4. Test Item

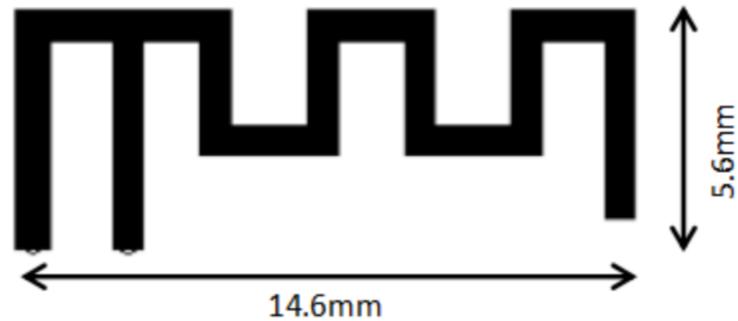
| Report Section | Description |
|----------------|-------------------------------|
| Appendix B | S11/VSWR |
| Appendix C | Gain and Efficiency |
| Appendix D | Radiation Pattern (1D and 3D) |

5. Test Photo

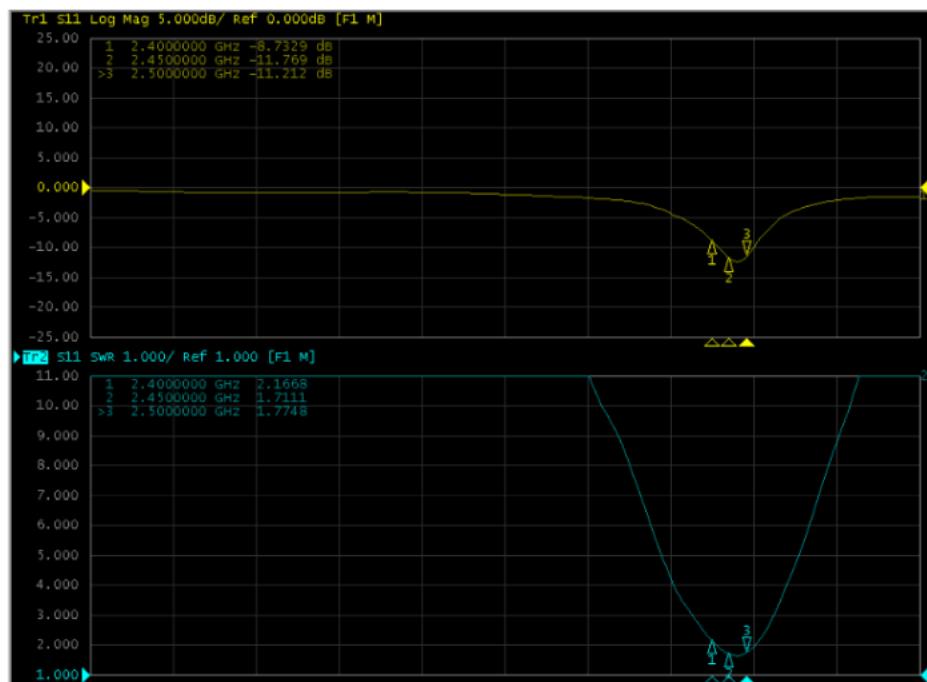
| Report Section | Description |
|----------------|------------------|
| Appendix E | Test Setup Photo |

| | |
|--------------|--|
| Manufacturer | Hangzhou Tuya Information Technology Co.,Ltd |
| Address | Room 701, Building 3, More Center, No.87 GuDun Road, Hangzhou, Zhejiang, China |

Appendix A Antenna Dimension



Appendix B S11/VSWR

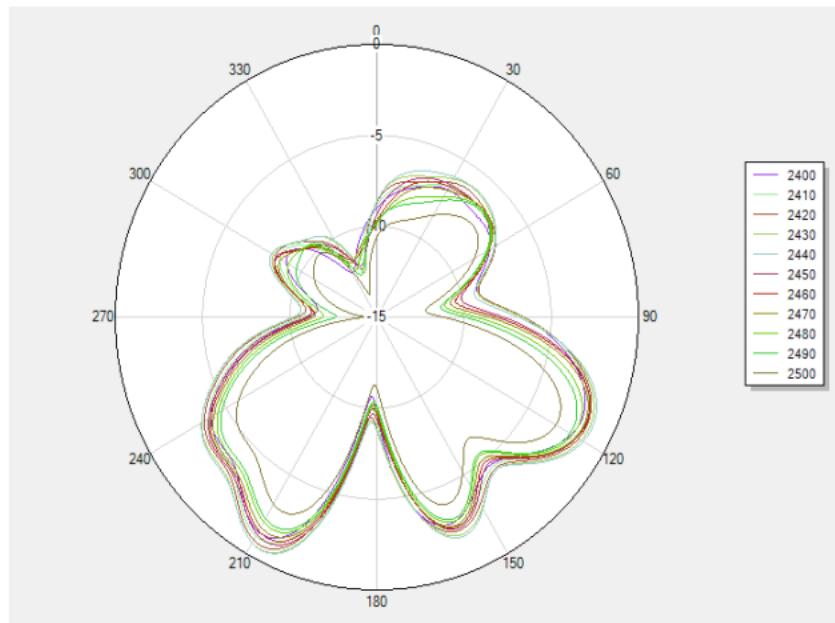
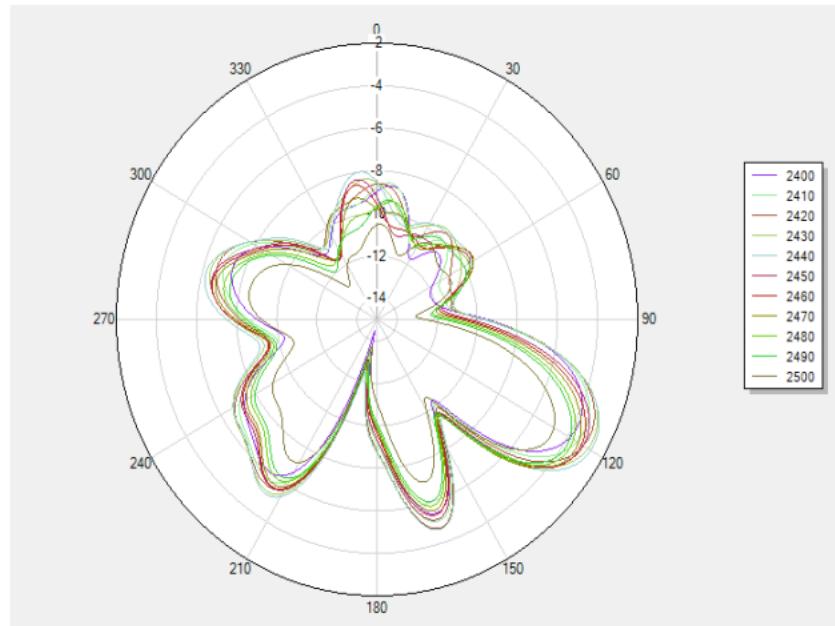


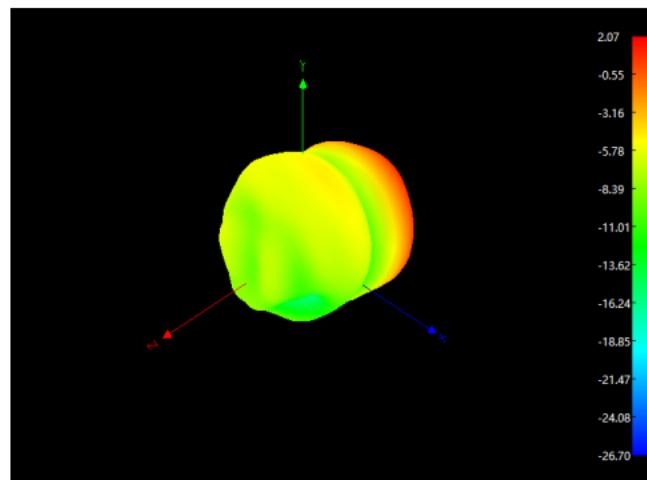
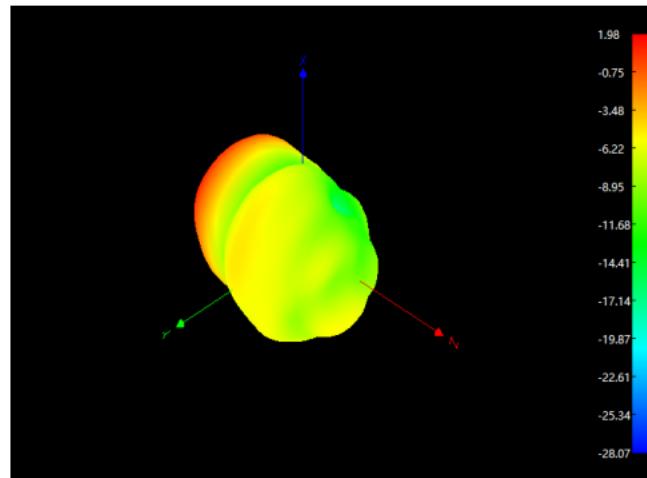
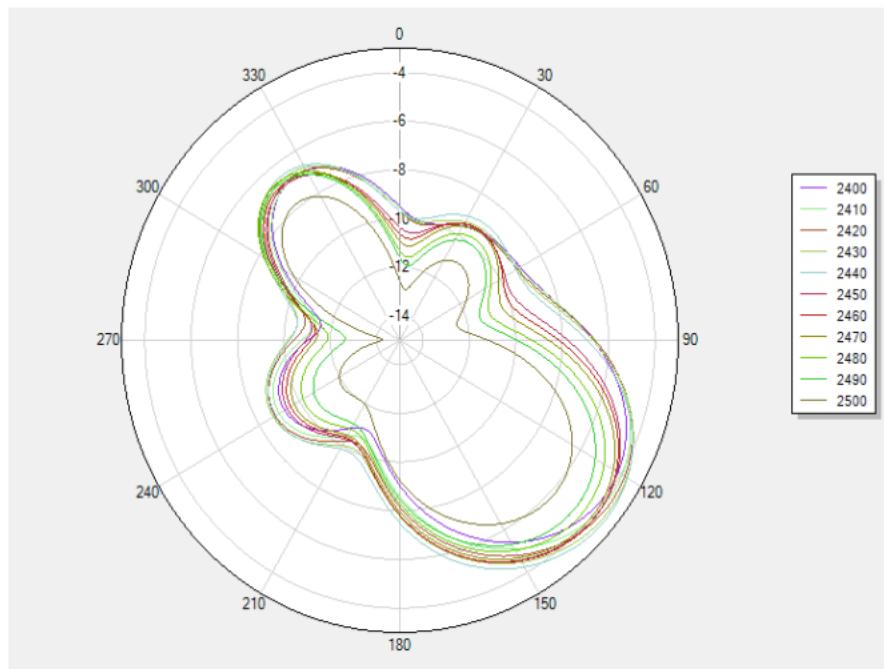
| | | | |
|-----------------|-------|--------|--------|
| Frequency (MHz) | 2400 | 2450 | 2500 |
| Return Loss | -8.73 | -11.76 | -11.21 |
| VSWR | 2.16 | 1.71 | 1.77 |

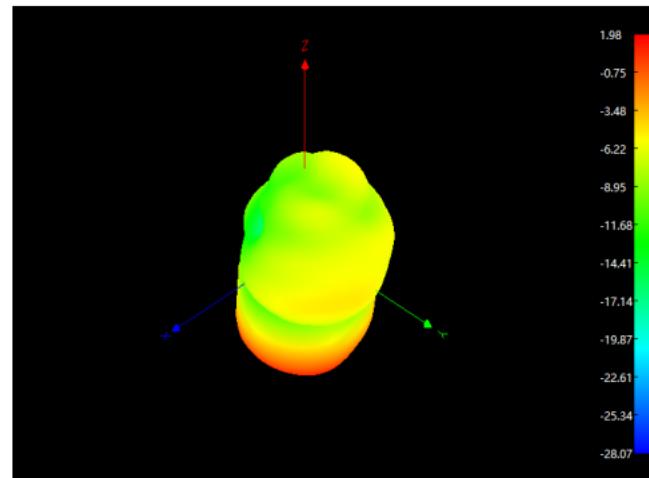
Appendix C Gain and Efficiency

| 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

