

Antenna  
Test Report

## CB2S Antenna test report

Version 1.0.0

Date: 2021-03-18

NO: 0000000001

Powered by

tuya<sup>®</sup>

Intelligence  
Inside

M/N:	CB2S
Antenna Type:	PCB antenna
Writer:	Haigang ruan
Maximum	Gain: 0.04dBi
	Efficiency:27.48%

## Content

1. General Description .....	2
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	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

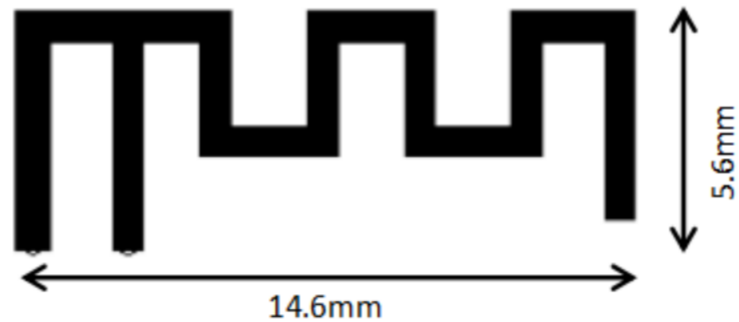
Report Section	Description
Appendix B	S11/VSWR
Appendix C	Gain and Efficiency
Appendix D	Radiation Pattern (1D and 3D)

## 5. Test Photo

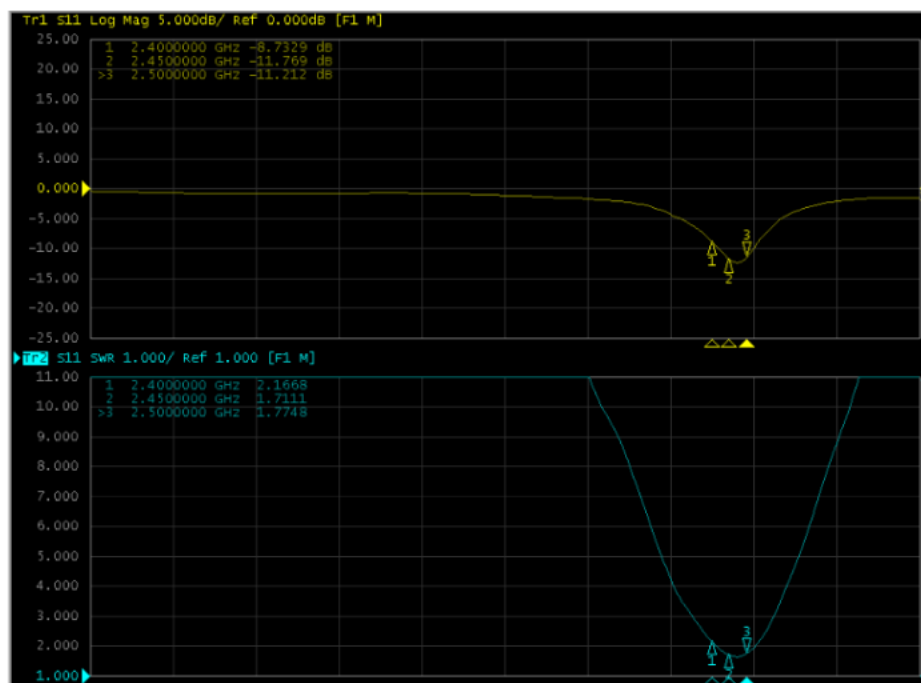
Report Section	Description
Appendix E	Test Setup Photo

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

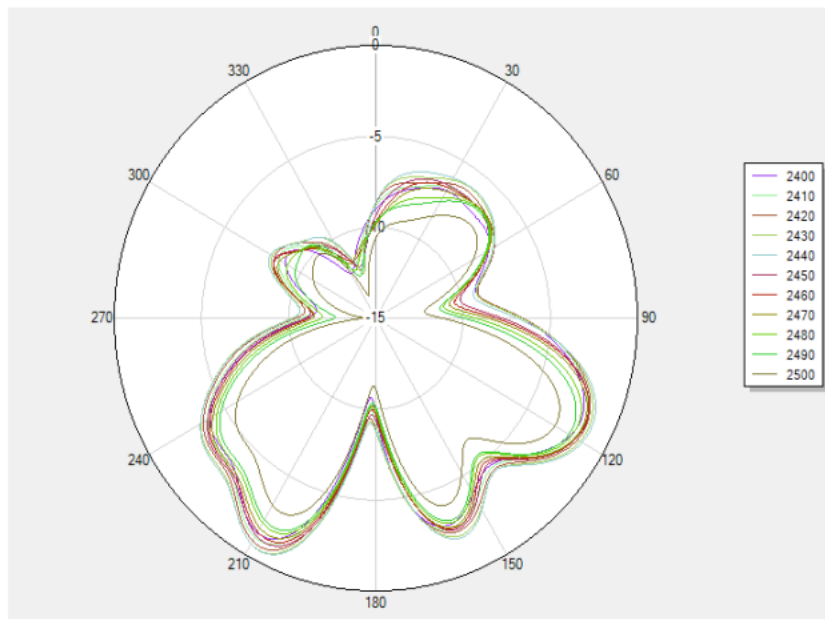
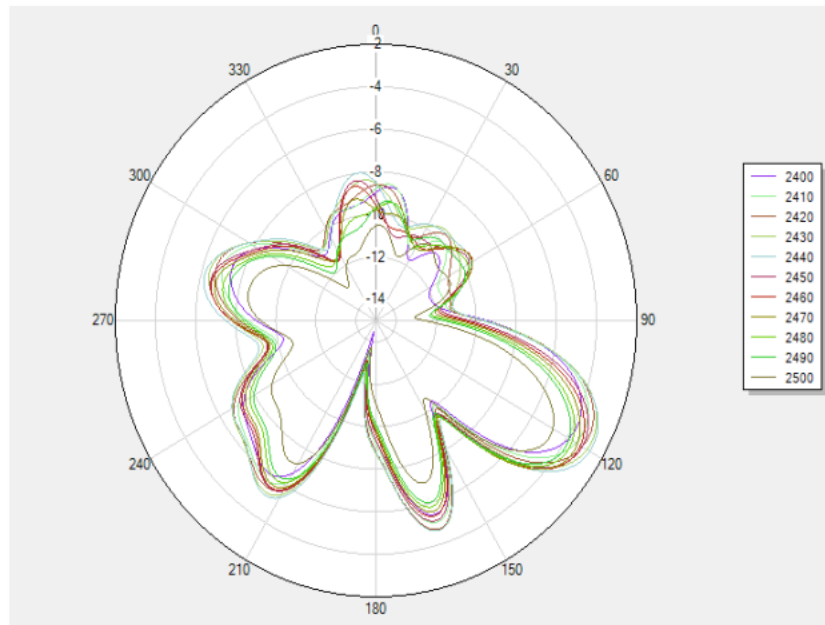


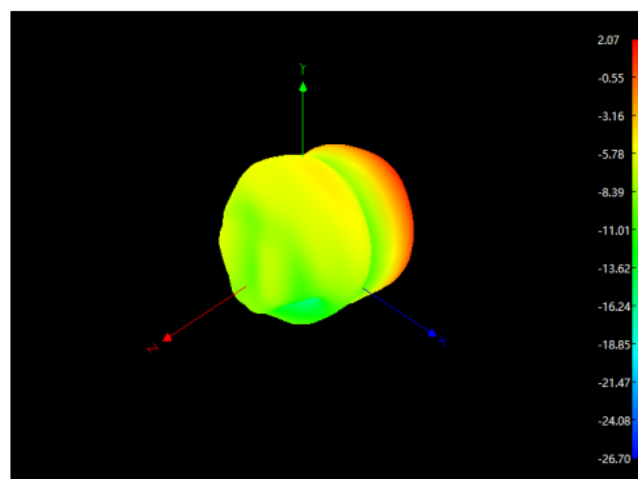
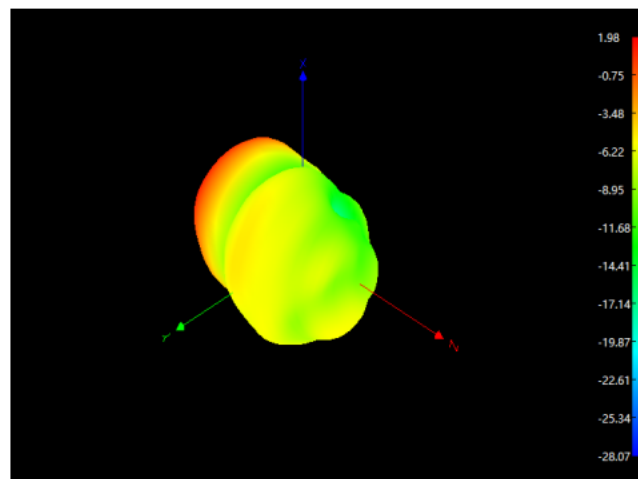
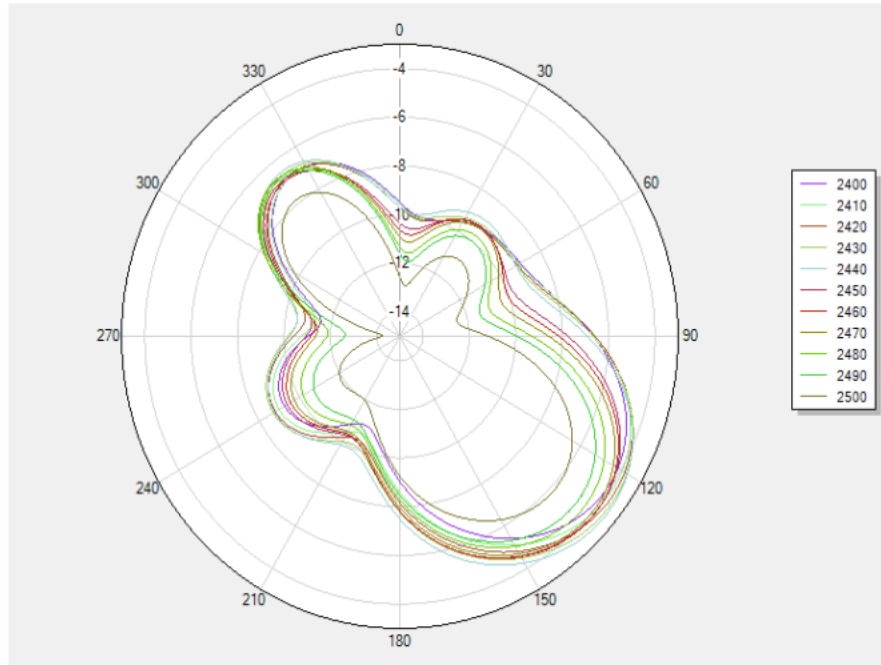
Frequency (MHz)	2400	2450	2500
Return Loss	-8.73	-11.76	-11.21
VSWR	2.16	1.71	1.77

## Appendix C Gain and Efficiency

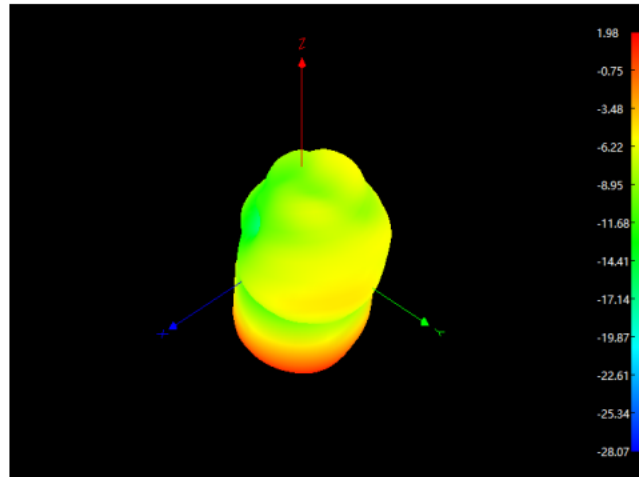
Frequency (MHz)	Efficiency(%)	Gain (dBi)
2400	24.43%	-0.98
2410	25.64%	-0.67
2420	26.24%	-0.37
2430	27.04%	-0.12
2440	27.48%	0.04
2450	25.25%	-0.45
2460	23.88%	-0.55
2470	22.65%	-0.69
2480	21.78%	-0.93
2490	20.04%	-1.11
2500	16.18%	-2.07

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









## Appendix E Test Setup Photo

