



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 2021/11/18
Date

编号 21111801
File No

版本 1.0
Revision

客 户
CUSTOMER: Autel Robotics Co.,Ltd.

客户料号 Model x mini

CUSTOMER NO:

品 名 RF Antenna
PART NAME:

供方料号 YJI01.005.034.306A
SUPPLIER NO:

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	WenXue	ChenXingyi

YJ-RD-F04-A



承认书项目表

NO .	内 容 (Contents)	页 数 (Number of Page)	页 码 (Page Code)
1	承认书封面 (Spec Cover)	1	1
2	承认书项目表 (Spec Item)	1	2
3	工程成品图 (Drawing)	1	3
4	天线规格 (Antenna Specification)	1	4
5	S参数测试 (S Parameter)	1	5
6	无源测试 (Passive Test)	3	6 ~ 8
7	方向图 (Radiation Patten)	2	9 ~ 10
8	天线装配图 (Antenna Profile)	3	11~ 13
9	材质证明 (Material Certificate)	29	14 ~ 42
10	RoHS报告 (RoHS Test Report)	**	**
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

RoHS
Compatible

CUSTOMER
PART NO

REV.

DESCRIPTION

DATE

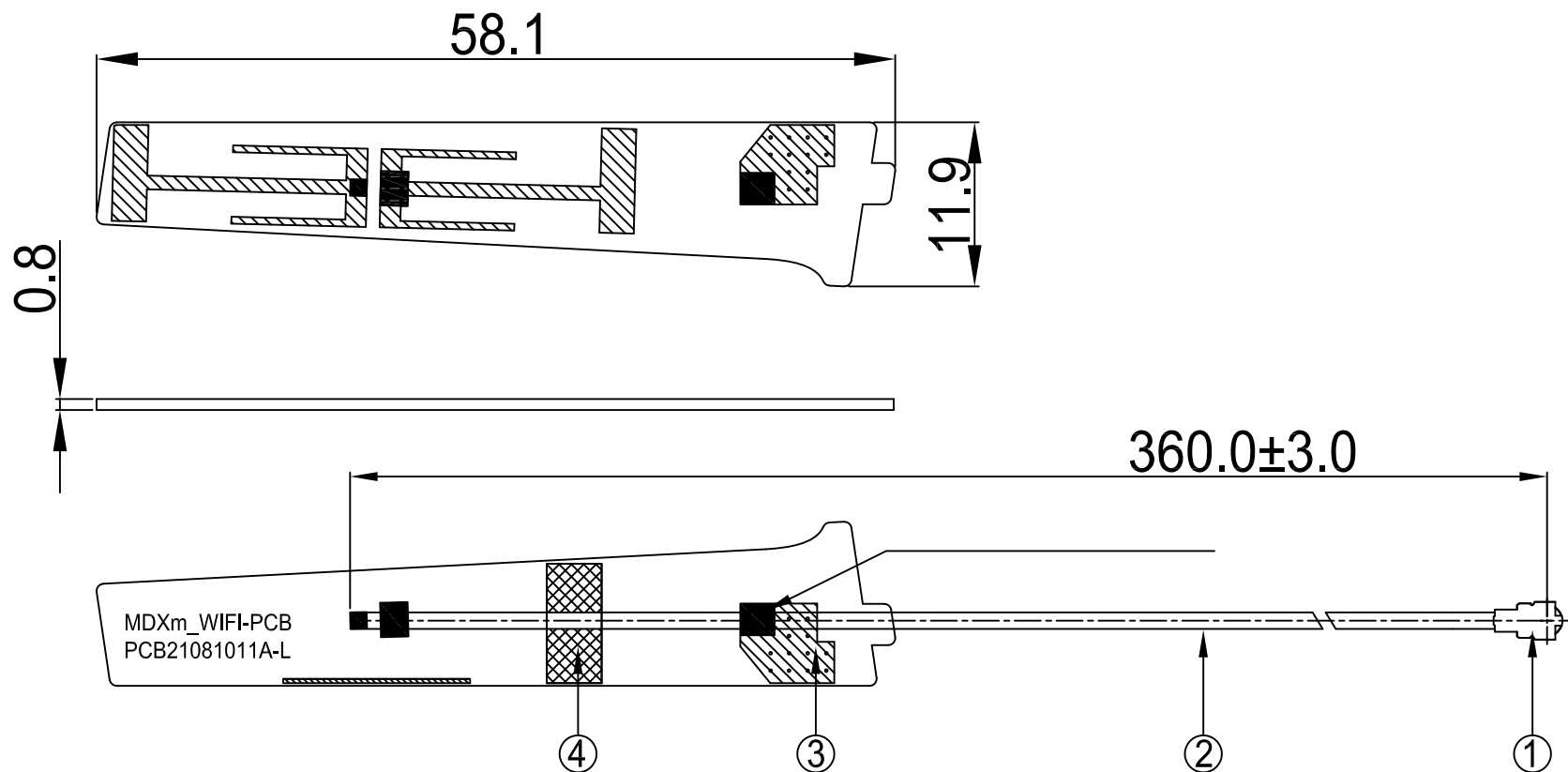
A

2021-11-03

B

2021-11-17

C



4	Paste+EVA	7.5*3.0*2.0MM	EVA	EVA10429A.P01	1
3	PCB	58.1*11.9*0.8MM	PCB	PCB10457A.P01	1
2	Coaxial Cable	O.D.1.37 Gray Low loss	O.D.1.37	COA10001A.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER10001A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel:0769-85535057 Fax:0769-81664308

PART NAME: RF Antenna

PART NO.: YJI01.005.034.306A

DATE: 2021-11-17

APPROVED BY

CHECKED BY

DESIGNED BY

UNITS: mm

Tolerance

SCALE: 1/1

X.X ±0.50

REVISION: A

X.XX±0.15

X° ±3°



天线规格

Antenna Specification

Electrical Properties

Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	1.5dBi@2.4-2.5GHz 4.9dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

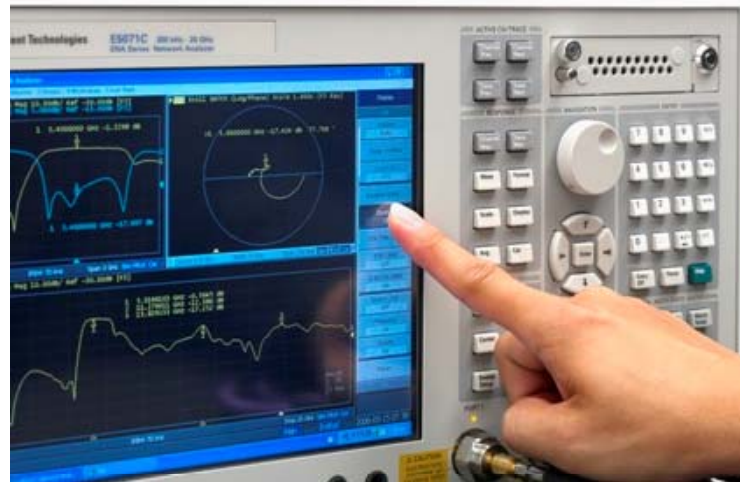
Physical Properties

Connector	1 st Generation IPEX
Cable Type	O.D.1.37mm
Cable Length	360mm
Cable Color	Gray
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

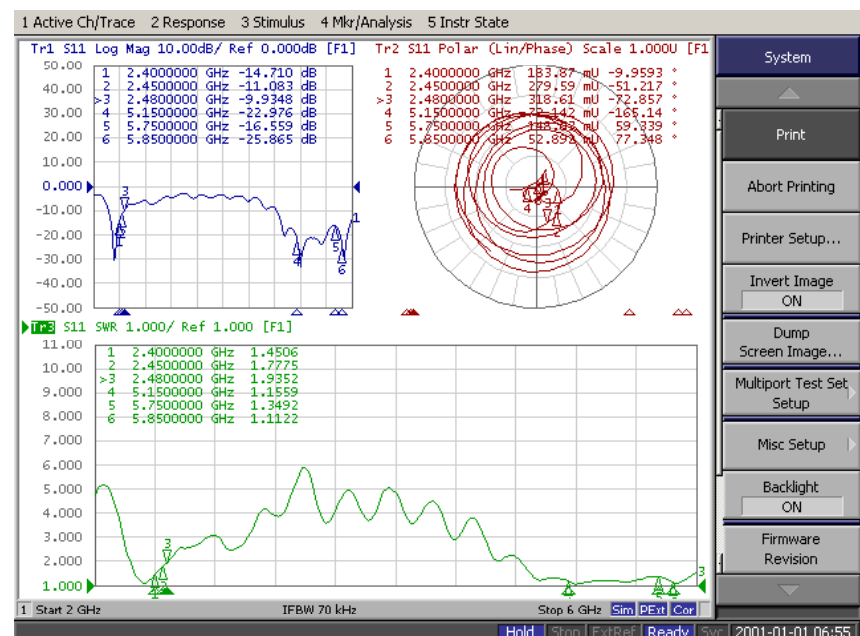


Antenna Performance Test

**Agilent
E5071B**

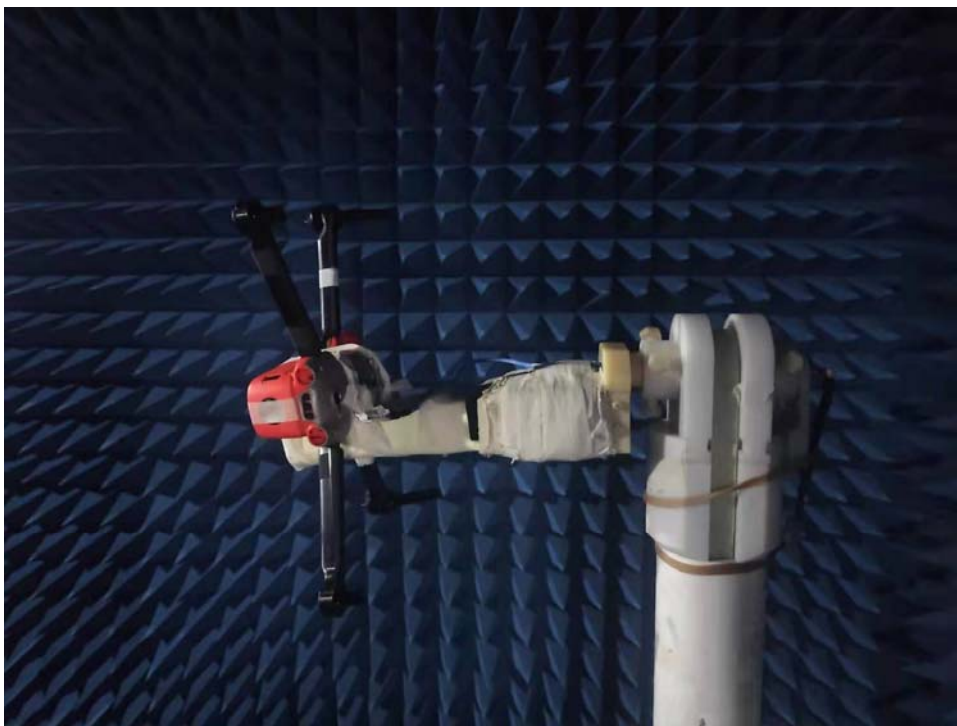
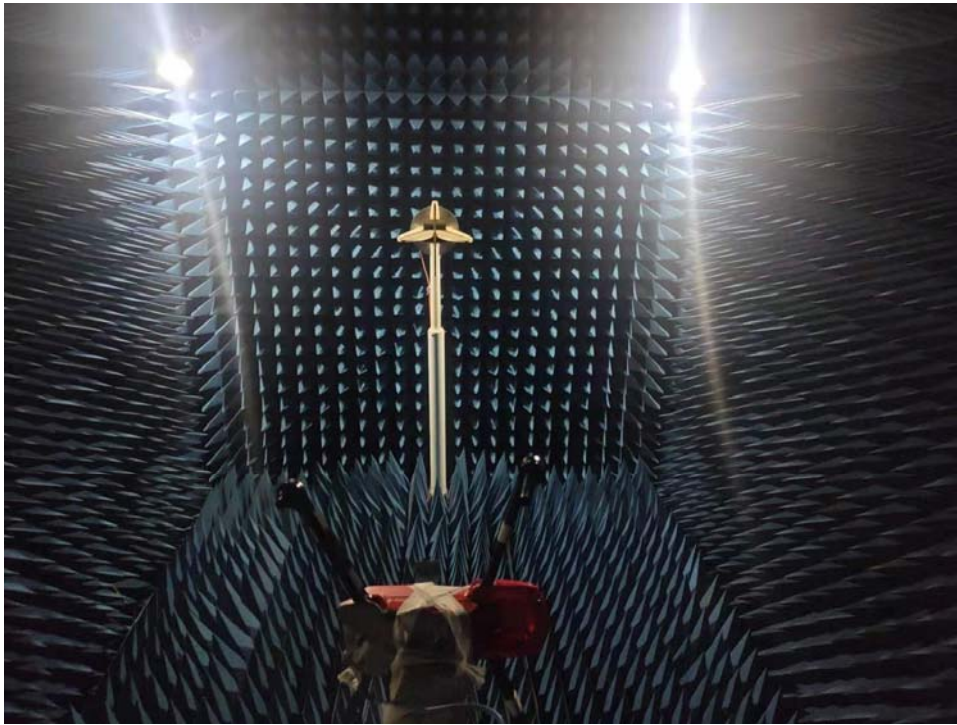


**S
Parameter
Test //
WIFI
Antenna**





Antenna Passive Test





Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.1	-2.8	0.8
2410	55.9	-2.5	1.0
2420	55.3	-2.6	0.9
2430	53.7	-2.7	0.9
2440	52.2	-2.8	1.0
2450	53.9	-2.7	1.2
2460	52.3	-2.8	1.2
2470	51.7	-2.9	1.4
2480	50.9	-2.9	1.5
2490	49.2	-3.1	1.3
2500	46.2	-3.4	1.0



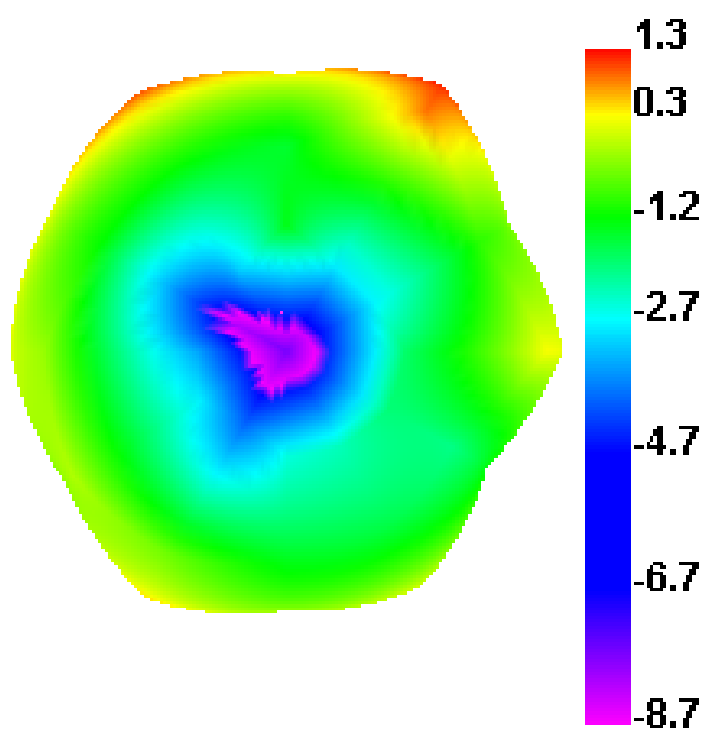
Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	46.7	-3.3	2.4
5200	53.0	-2.8	2.9
5250	55.3	-2.6	3.2
5300	59.1	-2.3	3.4
5350	56.0	-2.5	3.1
5400	53.6	-2.7	2.6
5450	53.9	-2.7	3.0
5500	51.3	-2.9	3.0
5550	47.1	-3.3	2.6
5600	51.0	-2.9	3.3
5650	66.8	-1.8	4.6
5700	67.7	-1.7	4.9
5750	63.0	-2.0	4.5
5800	55.8	-2.5	3.6
5850	51.1	-2.9	3.5



Radiation Patten For 2490MHz

2490.000MHz





Radiation Patten For 5750MHz

5750.000MHz

