



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 21111802
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 YJI01.005.034.305A
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

add:Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City

Tel:0769-82586086 Fax:0769-82586086



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RoHS
Compatible

CUSTOMER
PART NO

REV.

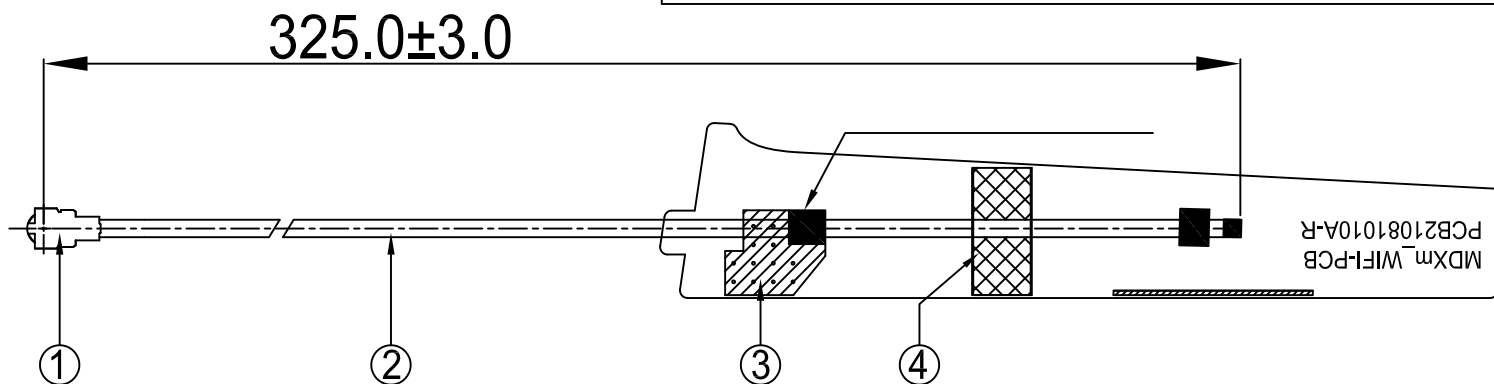
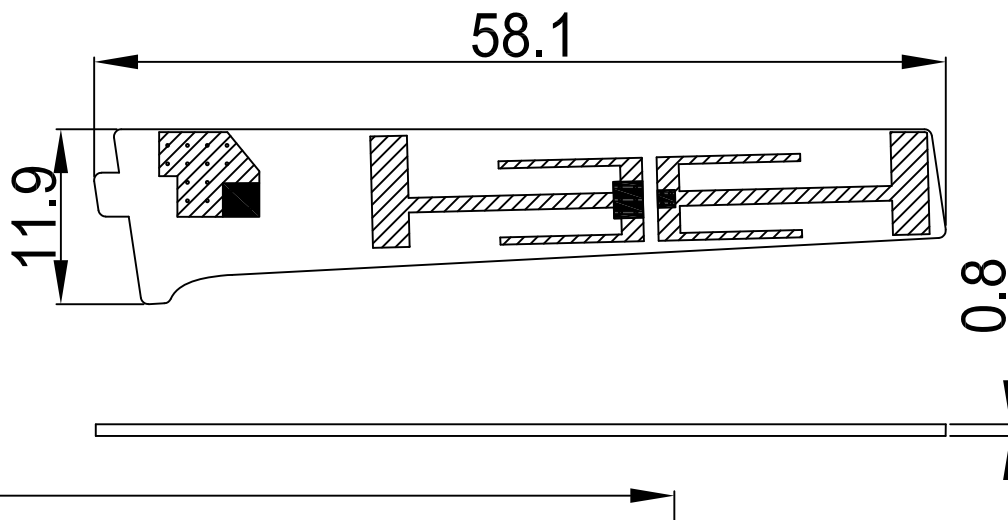
DESCRIPTION

DATE

A

B

C



4	Paste+EVA	7.5*3.0*2.0MM	EVA	EVA10429A.P01	1
3	PCB	58.4*11.9*0.8MM	PCB	PCB10456A.P01	1
2	Coaxial Cable	O.D.1.37 Black 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.: YJ101.005.034.305A

DATE: 2021-11-03

APPROVED BY

CHECKED BY

DESIGNED BY

UNITS: mm

SCALE: 1/1

REVISION: A

Tolerance
X.X ±0.50
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	1.1dBi@2.4-2.5GHz 3.6dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

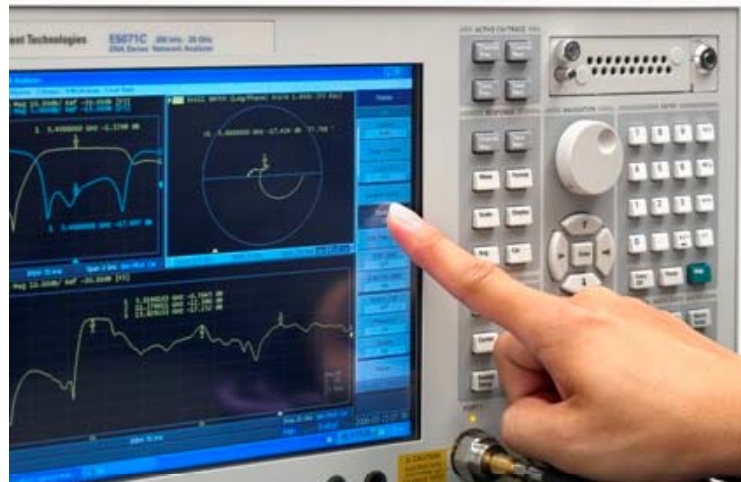
Physical Properties

Connector	1 Generation IPEX
Cable Type	O.D.1.37mm
Cable Length	325mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

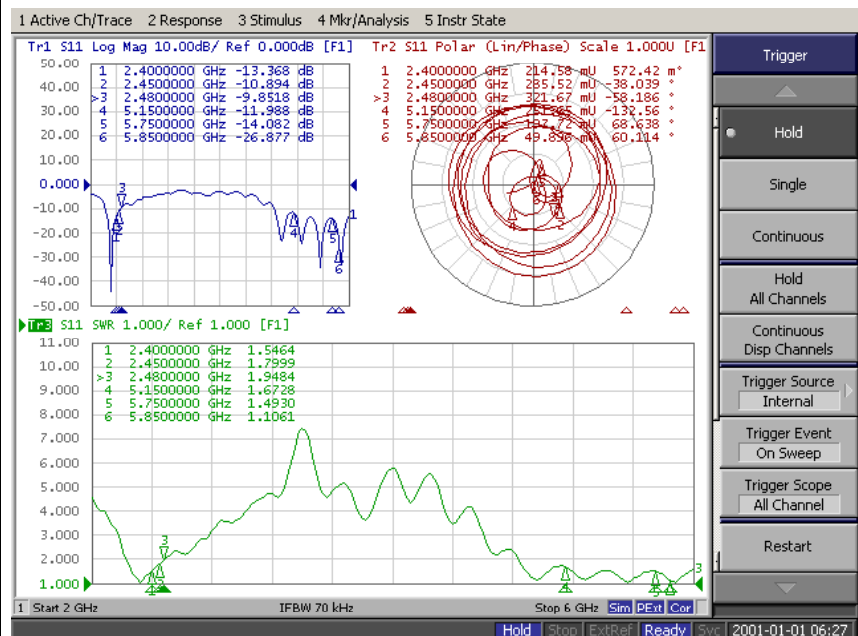


Antenna Performance Test

**Agilent
E5071B**

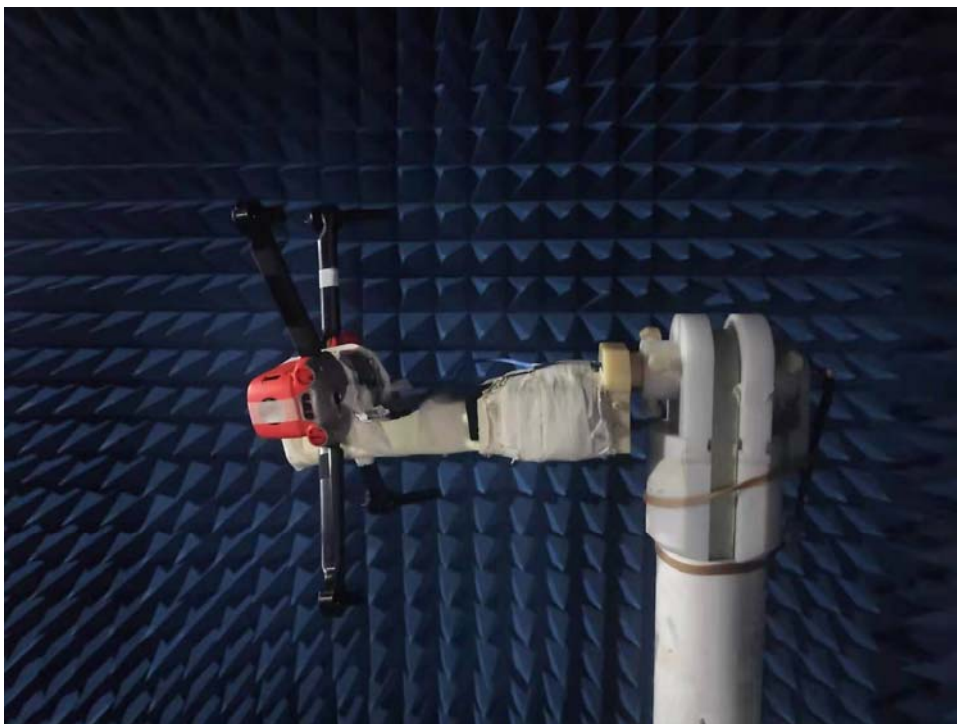
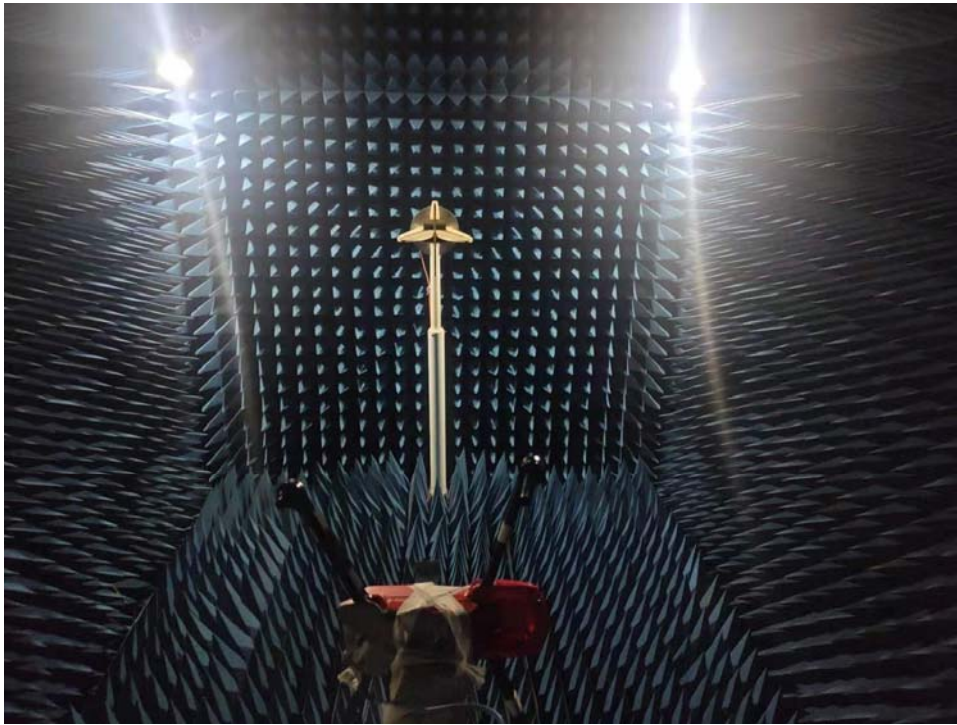


**S
Parameter
Test //
WIFI
Antenna**





Antenna Passive Test





Passive Test For WIFI Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	54.5	-2.6	0.7
2410	54.7	-2.6	1.1
2420	52.7	-2.8	1.1
2430	51.1	-2.9	1.0
2440	49.2	-3.1	1.0
2450	50.4	-3.0	1.1
2460	48.5	-3.1	1.0
2470	48.0	-3.2	0.9
2480	48.1	-3.2	0.8
2490	46.8	-3.3	0.6
2500	44.4	-3.5	0.2



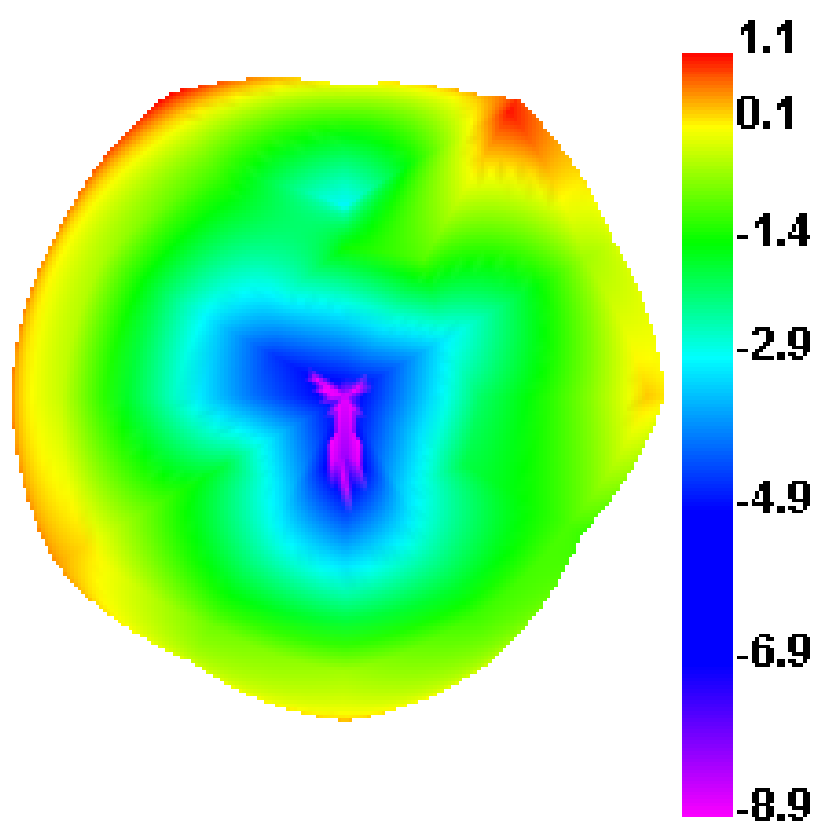
Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	42.5	-3.7	3.2
5200	47.9	-3.2	3.5
5250	52.5	-2.8	3.6
5300	56.3	-2.5	3.2
5350	52.6	-2.8	2.8
5400	50.3	-3.0	2.4
5450	47.9	-3.2	2.2
5500	44.4	-3.5	1.9
5550	42.3	-3.7	1.8
5600	48.7	-3.1	2.6
5650	61.2	-2.1	3.2
5700	63.2	-2.0	3.6
5750	58.2	-2.4	2.9
5800	49.1	-3.1	2.4
5850	46.9	-3.3	2.7



Radiation Patten For 2450MHz

2450.000MHz





Radiation Patten For 5750MHz

5750.000MHz

