



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 2021/08/06
Date

编号 21080603
File No

版本 1.0
Revision

客户 Autel Robotics Co.,Ltd.

CUSTOMER:

客户料号 Medol X Mini

CUSTOMER NO:

品名 WiFi Dual-frequency Antenna

PART NAME:

供方料号 YJI01.005.034.303A

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

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11	N/A	N/A	N/A
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13	-	-	-

RoHS
Compatible

CUSTOMER
PART NO

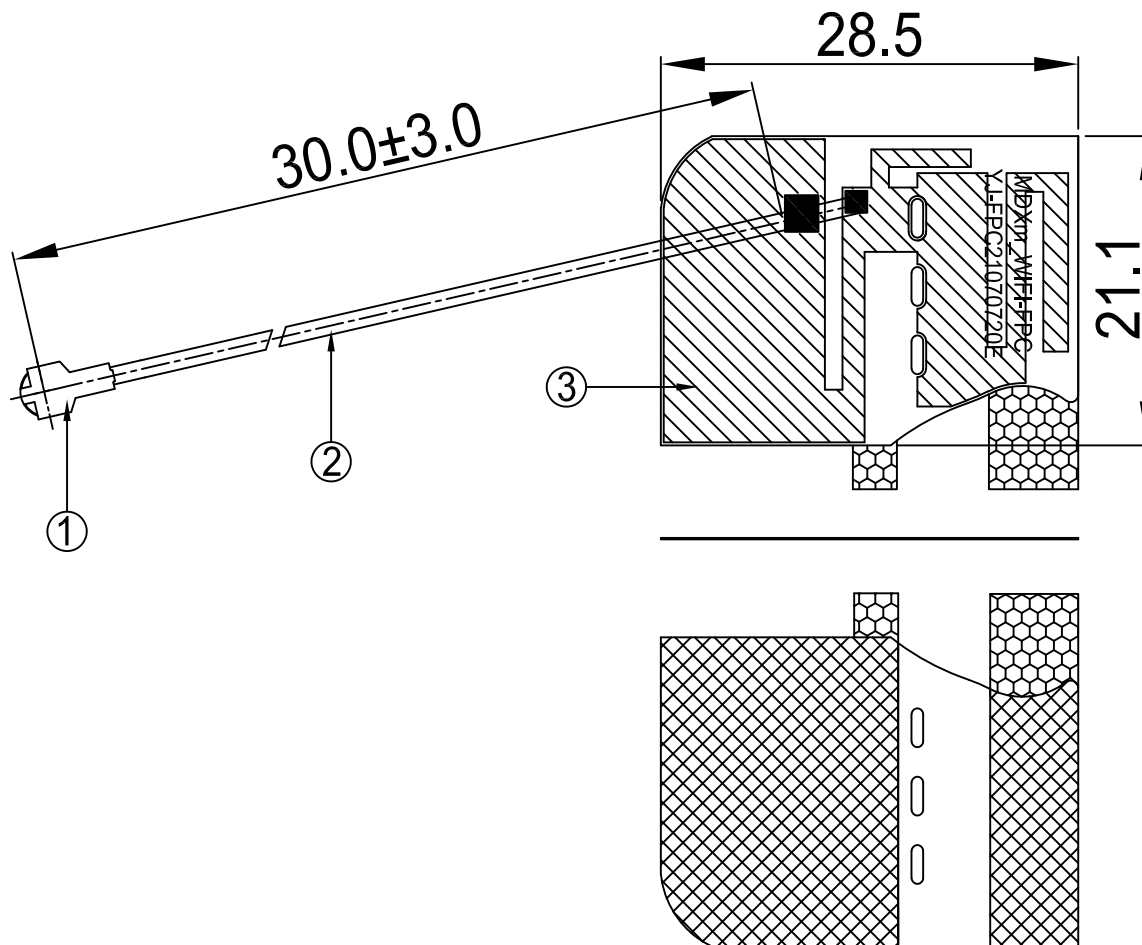
REV.

DESCRIPTION

DATE

△

2021-08-04



3	FPCB	28.5*21.1MM	FPCB	FPC1000XA.P01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA1000XA.P01	1
1	Mini Connector	Au Plated 4	Cu	TER1000XA.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: WiFi Dual-frequency Antenna

PART NO.: YJ101.005.034.303A

DATE: 2021-08-04

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.15

REVISION: A

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@2.4-2.5GHz 5.0 Max@5.15-5.85GHz
Gain	2.2dBi@2.4-2.5GHz 5.4dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

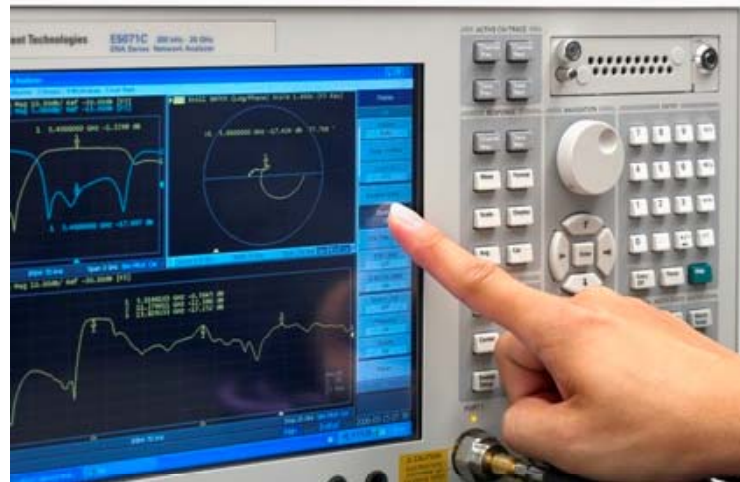
Physical Properties

Connector	Generation 4PEX
Cable Type	O.D.0.81mm
Cable Length	30mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

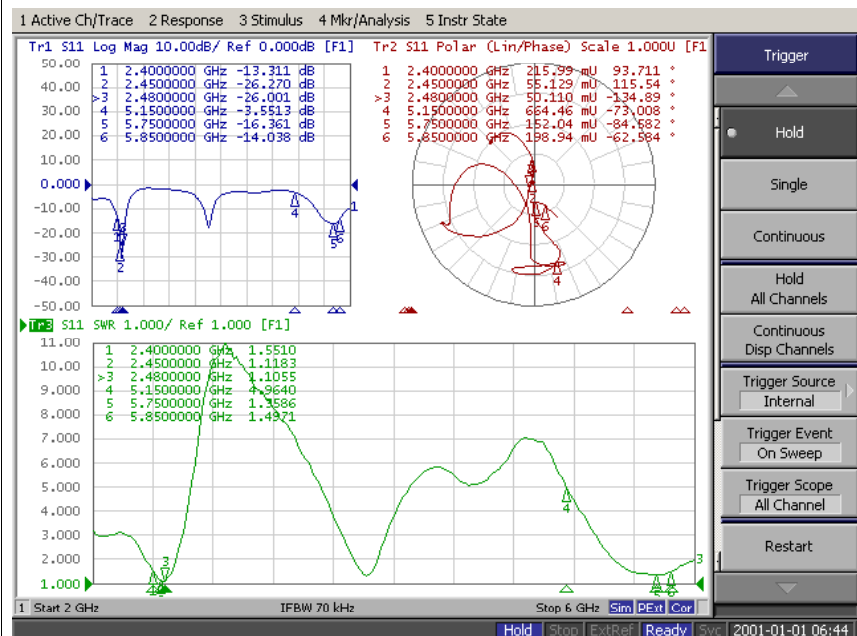


Antenna Performance Test

**Agilent
E5071B**

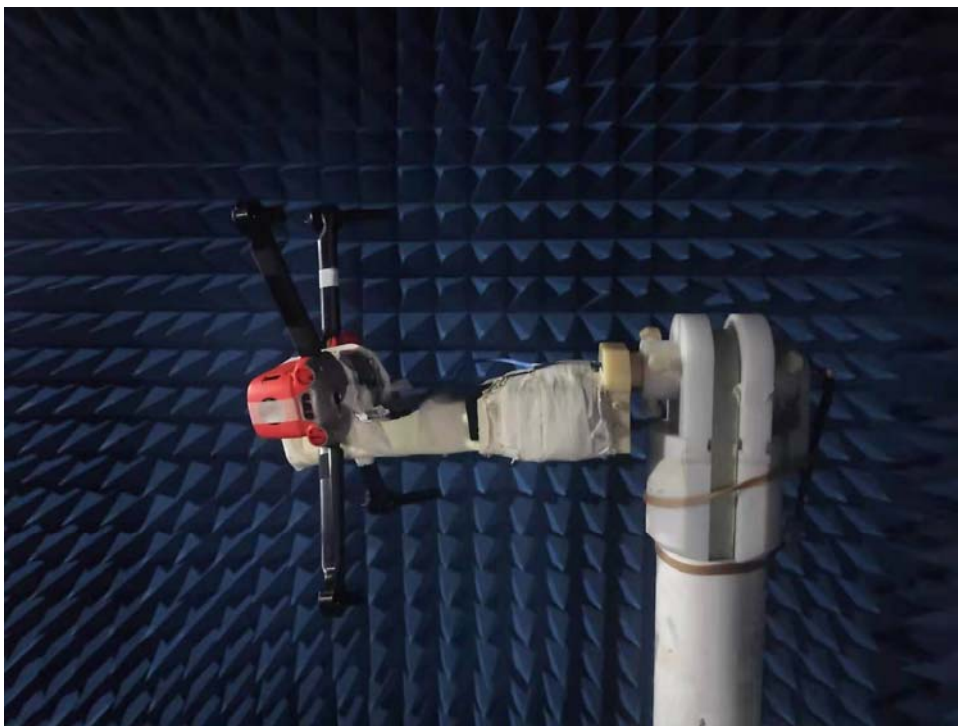
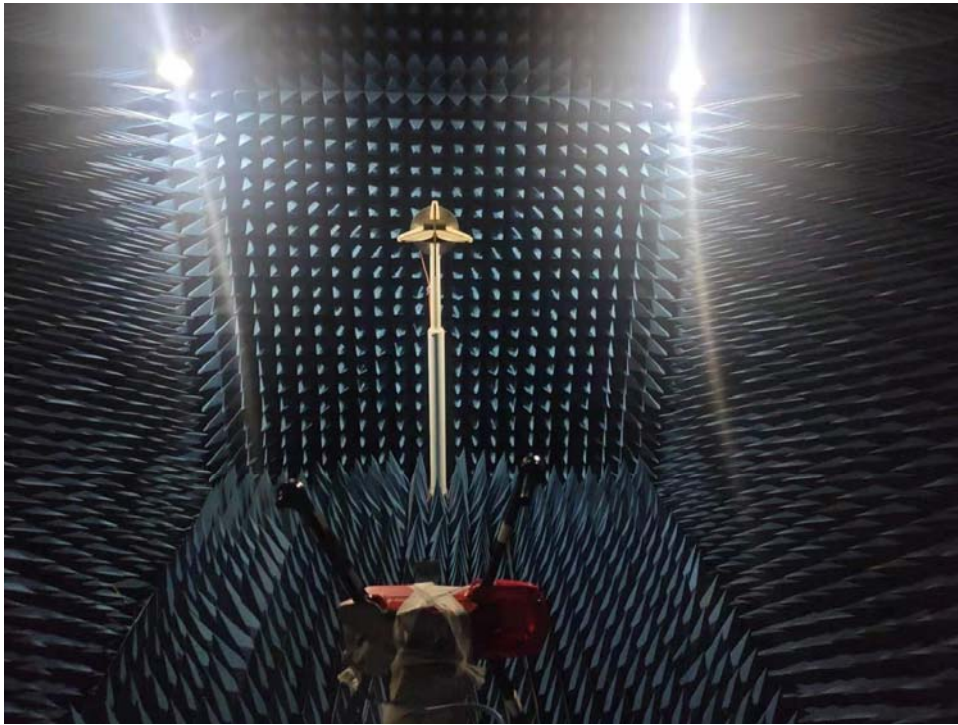


**S
Parameter
Test //
WIFI
Antenna**





Antenna Passive Test





Passive Test For WIFI Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	39.5	-4.0	1.7
2410	40.9	-3.9	2.1
2420	42.0	-3.8	1.9
2430	42.2	-3.7	1.9
2440	42.6	-3.7	1.7
2450	46.0	-3.4	2.1
2460	46.4	-3.3	2.0
2470	48.1	-3.2	2.2
2480	47.6	-3.2	2.0
2490	47.8	-3.2	1.9
2500	48.3	-3.2	1.9



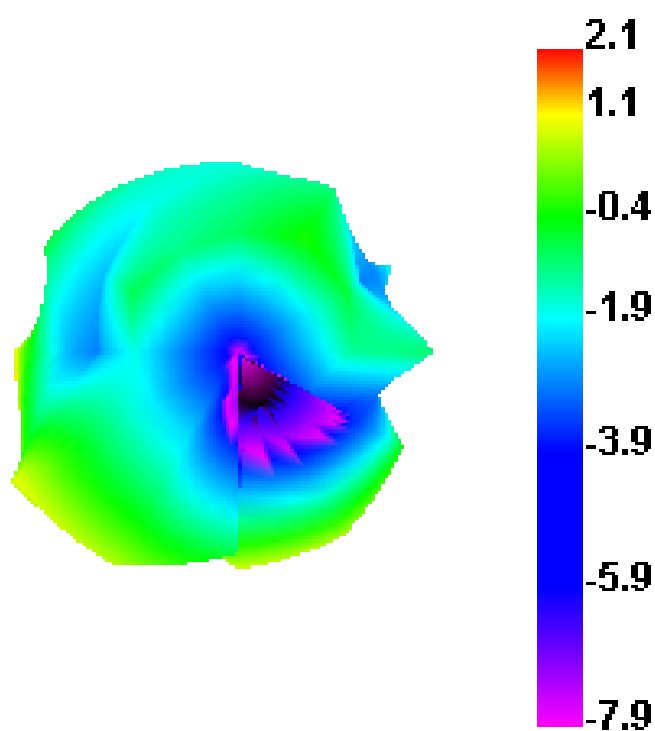
Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	22.0	-6.6	-1.2
5200	23.8	-6.2	-0.6
5250	25.5	-5.9	-0.2
5300	31.6	-5.0	0.4
5350	38.7	-4.1	1.3
5400	40.3	-4.0	1.7
5450	42.5	-3.7	2.2
5500	46.1	-3.4	3.2
5550	46.8	-3.3	3.7
5600	50.0	-3.0	4.0
5650	71.0	-1.5	5.4
5700	64.3	-1.9	4.6
5750	59.6	-2.3	4.1
5800	53.8	-2.7	3.2
5850	53.3	-2.7	2.8



Radiation Patten For 2450MHz

2450.000MHz





Radiation Patten For 5850MHz

5850.000MHz

