

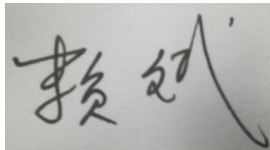


福州市瀚宇正达电子有限公司

Word Easy Electronics Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL



日期 2022/10/27
Date

编号 22102701
File No

版本 1.0
Revision

客 户 星网

CUSTOMER: _____

客户料号 DR4 (WIFI 1)

CUSTOMER NO: _____

品 名 WIFI Antenna L=80mm MHF

PART NAME: _____

供方料号 WE007N.P0029.V01

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

Hunter

Zhou Hongtao

Fang

WE-RD-F01-A



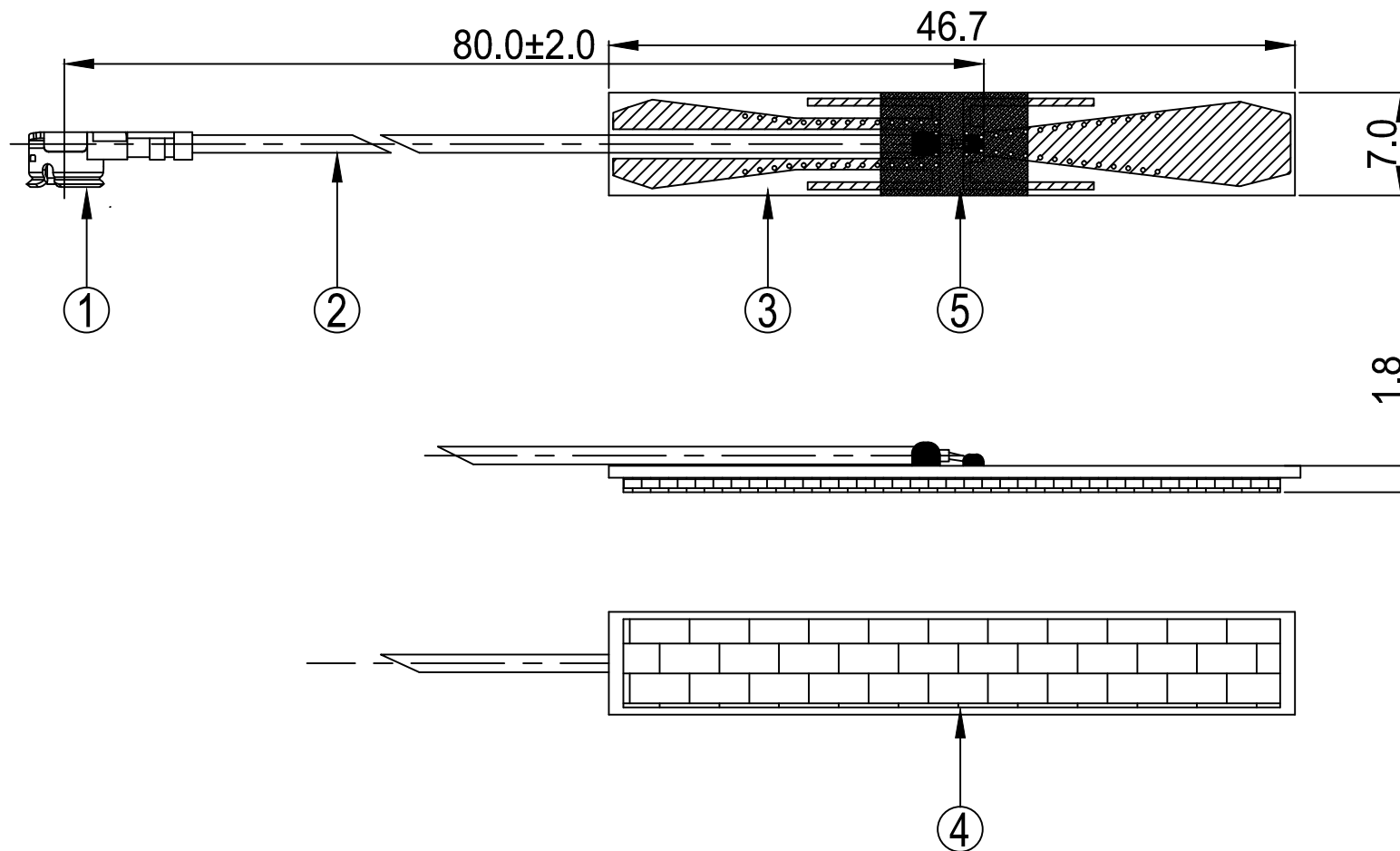
承认书项目表

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10	N/A	N/A	N/A
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12	-	-	-
13	-	-	-

RoHS

Compatible

REV.	DESCRIPTION	DATE
A	首次发行	2022.10.13
B		



5	Acetate Cloth	10.0*8.0MM	Acetate Cloth	FAB0002.V01	1
4	EVA	44.0*6.0*T1.0MM	3M+EVA	EVA0027.V01	1
3	PCB Black	46.7*7.0*T0.8MM	PCB	PCB0067.V01	1
2	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	CAB0113.V02	1
1	Mini Connector	1代I-PEX	Cu	MET0XD1.V01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

		福州市瀚宇正达电子有限公司		Tel :0591-22628085	
		World Easy Electronics Co.,Ltd.		Fax:0591-22627656	
PART NAME: WiFi Antenna L=80mm MHF					
PART NO.: WE007N.P0029.V01				DATE: 2022-10-13	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
		周红涛	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	2400-2500MHz 5150~5850MHz
Impedance	50 Ohm Nominal
V.S.W.R	<2.0
Return Loss	<-9.4
Radiation	Omni-directional
Gain (Peak)	2.6dBi@2400-2500MHz 3.8dBi@5150~5850MHz
Polarization	Linear
Connector	1代I-PEX

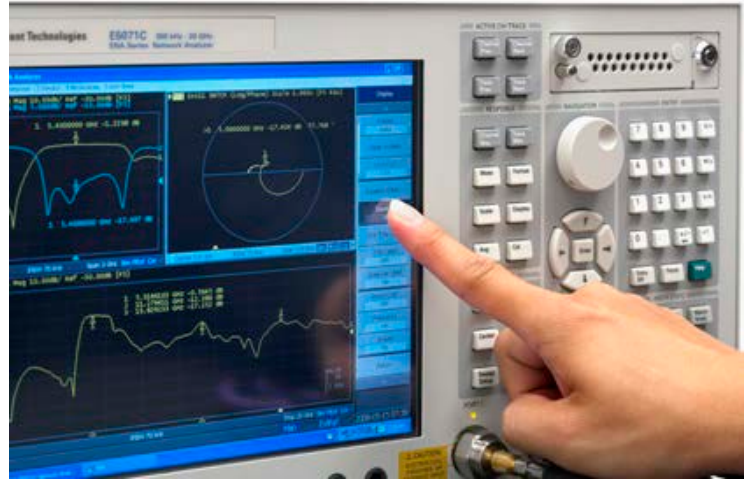
Physical Properties

Antenna Material	PCB
Cable Type	O.D.1.13//L=80mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray

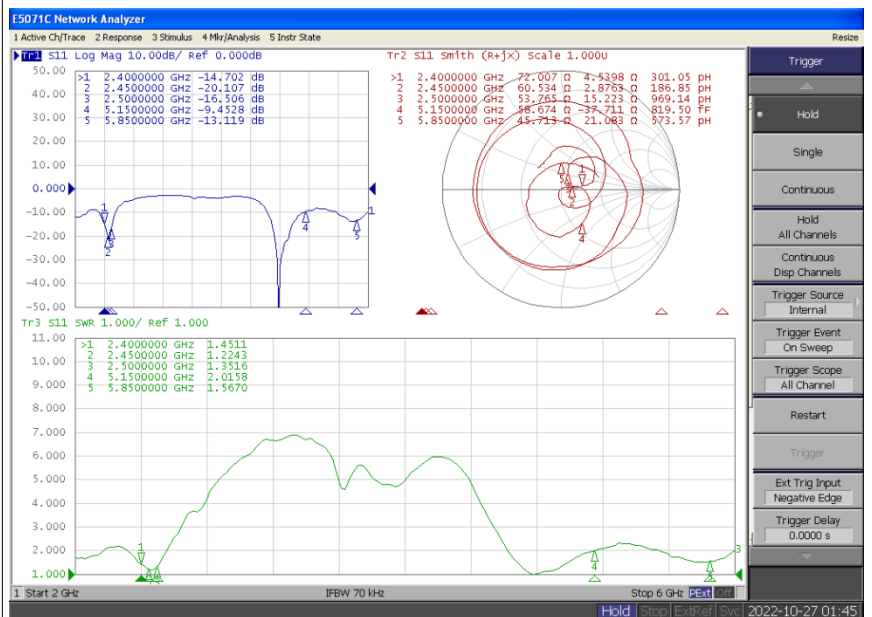


Antenna Performance Test

**Agilent
E5071C**

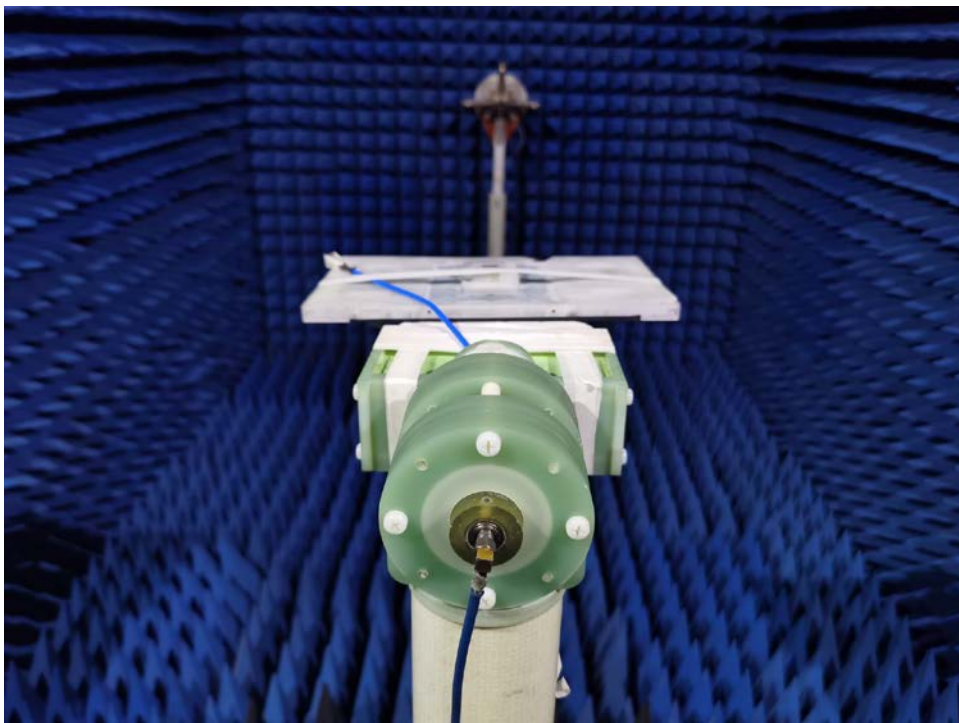
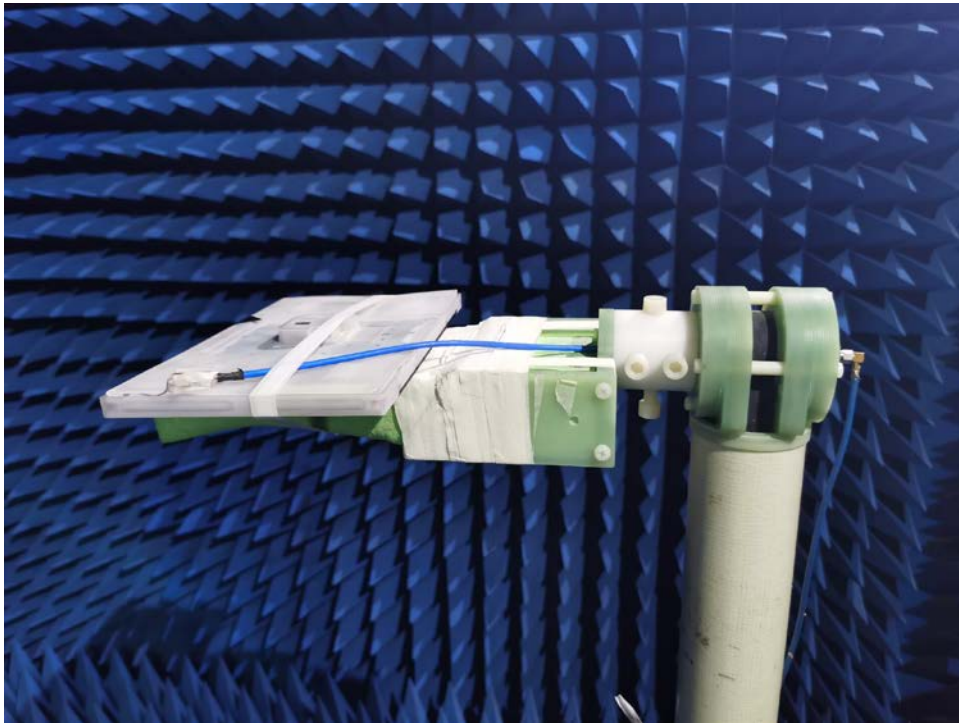


**S
Parameter
Test //
WIFI 1**





Antenna Passive Test





Passive Test For WIFI 1 (2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	44.1	-3.6	2.2
2410	49.3	-3.1	2.6
2420	47.5	-3.2	2.4
2430	48.6	-3.1	2.4
2440	52.6	-2.8	2.5
2450	51.9	-2.9	2.3
2460	55.8	-2.5	2.4
2470	47.8	-3.2	1.8
2480	49.5	-3.1	2.0
2490	47.3	-3.3	1.8
2500	51.3	-2.9	1.9

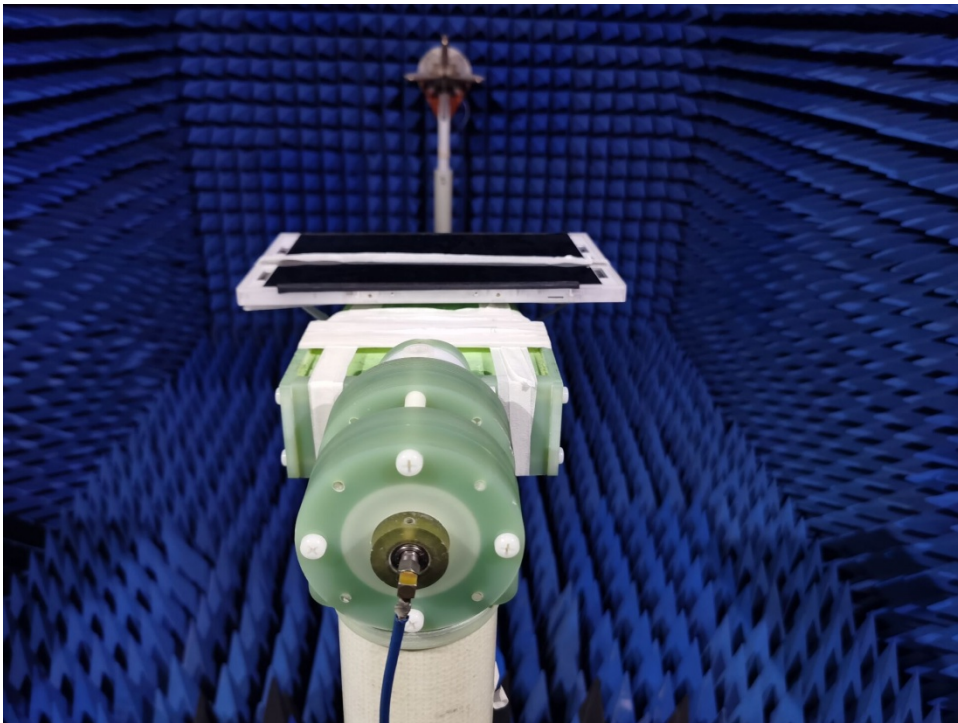
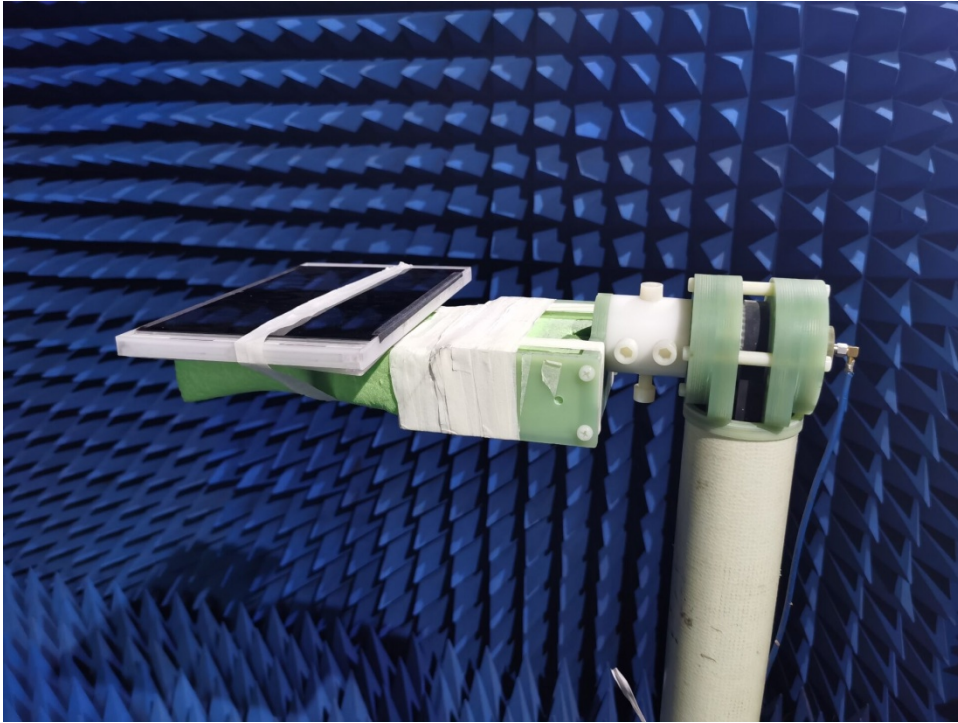


Passive Test For WIFI 1(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	49.2	-3.1	3.0
5200	43.6	-3.6	1.9
5250	42.9	-3.7	2.0
5300	43.0	-3.7	2.4
5350	48.7	-3.1	2.9
5400	49.7	-3.0	3.2
5450	47.8	-3.2	2.7
5500	45.4	-3.4	2.3
5550	46.6	-3.3	2.8
5600	46.5	-3.3	2.7
5650	50.2	-3.0	3.5
5700	52.6	-2.8	3.8
5750	54.7	-2.6	3.2
5800	51.6	-2.9	2.4
5850	50.0	-3.0	2.8



Antenna Active Test





OTA Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	20.8	24.5	11Mbps	-80.0	-83.2
	6		20.0	23.7		-80.3	-83.8
	13		18.1	23.1		-79.6	-84.4
WIFI 2.4G 802.11g	1	6Mbps	19.7	22.9	54Mbps	-74.7	-75.8
	6		17.8	20.7		-74.9	-75.3
	13		17.7	21.3		-73.6	-74.8



OTA Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11n	1	MCS7	19.7	22.8	MCS7	-71.3	-72.3
	6		17.8	20.7		-70.3	-70.7
	13		17.7	21.3		-68.2	-69.4
WIFI 5G 802.11a	36	6Mbps	13.1	16.9	54Mbps	-69.6	-71.6
	64		12.7	17.0		-68.9	-72.5
	161		12.9	16.6		-69.4	-70.8

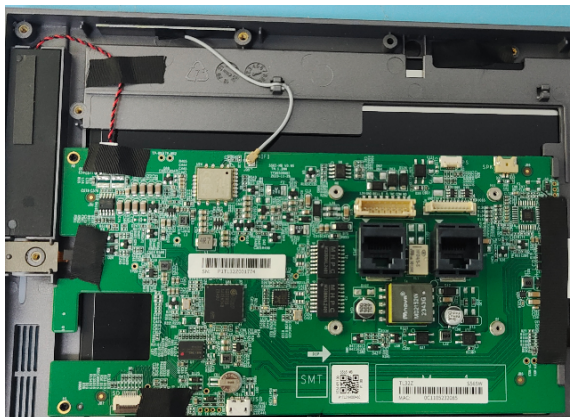


Antenna Profile

Device



WIFI1



Antenna

WIFI 1





Assembly Drawing

WIFI 1 Antenna

