



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

2.4/5.8G W73 White External Antenna L=55mm

PRODUCT

NAME:

+Connector

客 户 料 号

CUSTOMER

P/N:

优比电子料号

Youbi

P/N:

UB02C55W2Daaa1A

REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Changxing.Liu	
DATE:	2024/1/9	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-1-9

Content

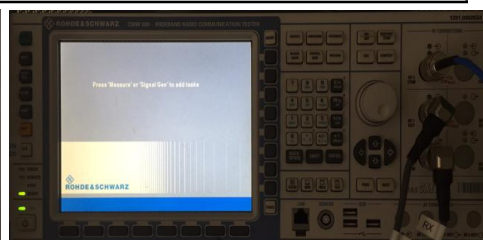
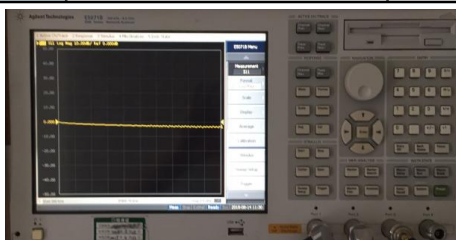
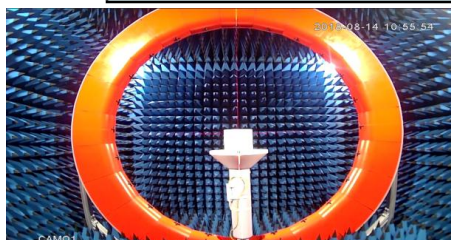
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Active test data
6.-----	Antenna installation diagram
7.-----	Mechanical Specification

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	63x13.96x12,L55	mm
Frequency	2400-2500;5150-5850	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	2.5±0.8	dBi
Efficiency	>60	%
Connector Type	RF 1	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



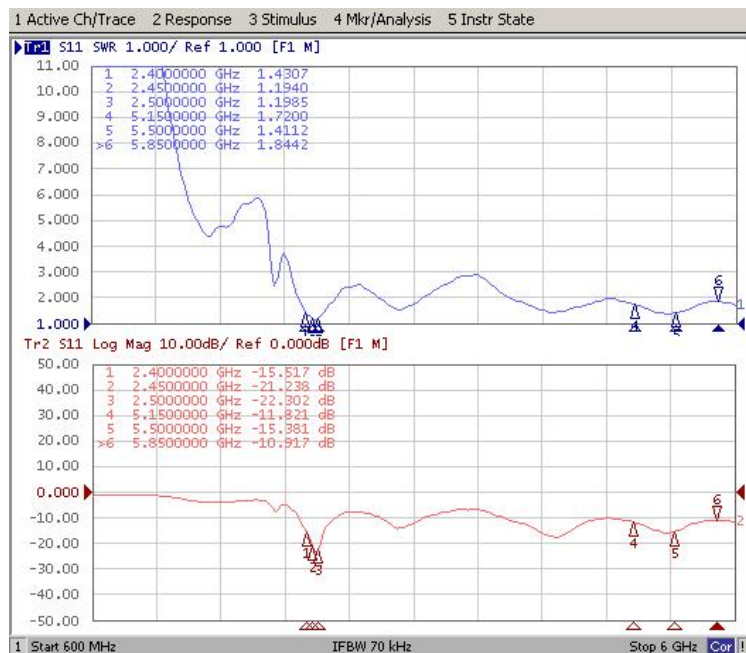
3. S Parameter

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-15.51	1.43
2450	-21.23	1.19
2500	-22.30	1.19
5150	-11.82	1.72
5500	-15.38	1.41
5850	-10.91	1.84

* Voltage Standing Wave Ratio(VSWR)

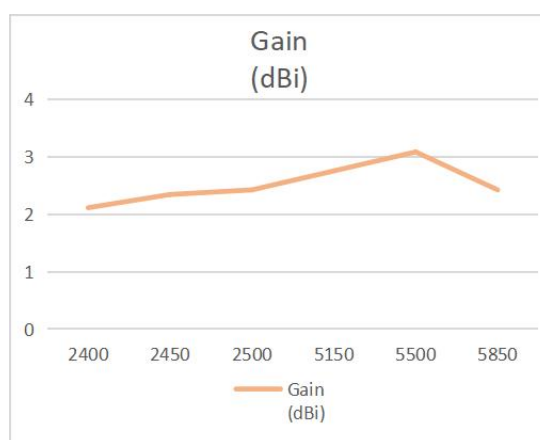
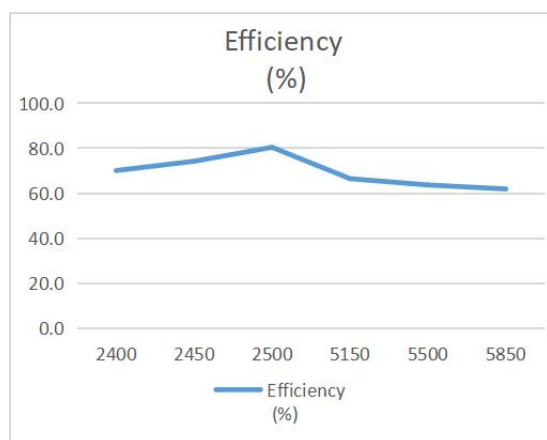
Return Loss(RL)

$RL = 20 * \log_{10}[(VSWR+1)/(VSWR-1)]$



4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	70.06	74.19	80.39	66.46	63.65	61.87
Gain (dBi)	2.11	2.34	2.42	2.75	3.08	2.42

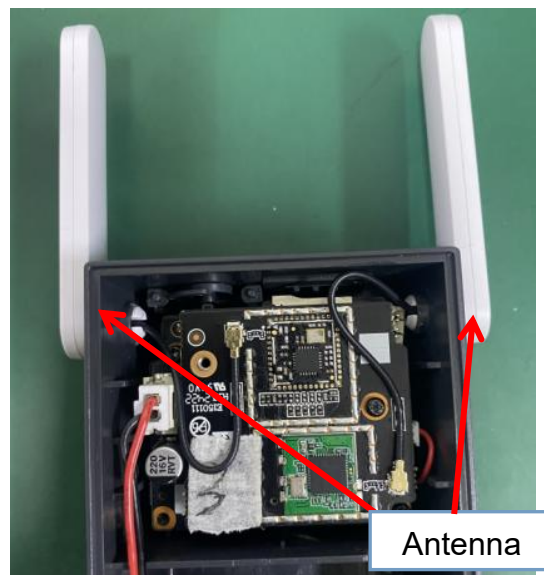


5.Active test data

B 模 11M			N 模 MCS 7	
Channel	Measurement	Total	Measurement	Total
1	TRP	18.66	TRP	18.02
6	TRP	18.21	TRP	18.65
11	TRP	17.95	TRP	18.20
1	TIS(EIRP)	-89.06	TIS(EIRP)	-70.38
6	TIS(EIRP)	-88.59	TIS(EIRP)	-69.40
11	TIS(EIRP)	-88.68	TIS(EIRP)	-72.23

G 模 54M			A 模 54M	
Channel	Measurement	Total	Measurement	Total
36	TRP	18.59	TRP	15.08
149	TRP	18.68	TRP	15.65
165	TRP	17.89	TRP	16.53
36	TIS(EIRP)	-74.55	TIS(EIRP)	-76.10
149	TIS(EIRP)	-73.73	TIS(EIRP)	-75.59
165	TIS(EIRP)	-75.74	TIS(EIRP)	-75.64

6.Antenna installation diagram



7.Mechanical Specification

