



好天线 · 优比造

东莞市优比电子有限公司
Dongguan UB Electronic Co.,Ltd

Letter of Acknowledgment

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME:

产 品 名 称 2.4G 小 SMA 公头母针-2dBi 白色天线

PRODUCT NAME: 2.4G small SMA male-female pin-2dBi white antenna

客 户 料 号

CUSTOMER P/N: 18080350A

优比电子料号

UB P/N: UB02S94W2D383A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2019/05/18	



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronic Co.,Ltd

Contents

Item

Description

1.-----Specifications

2.-----Finished product image

3.-----Test report

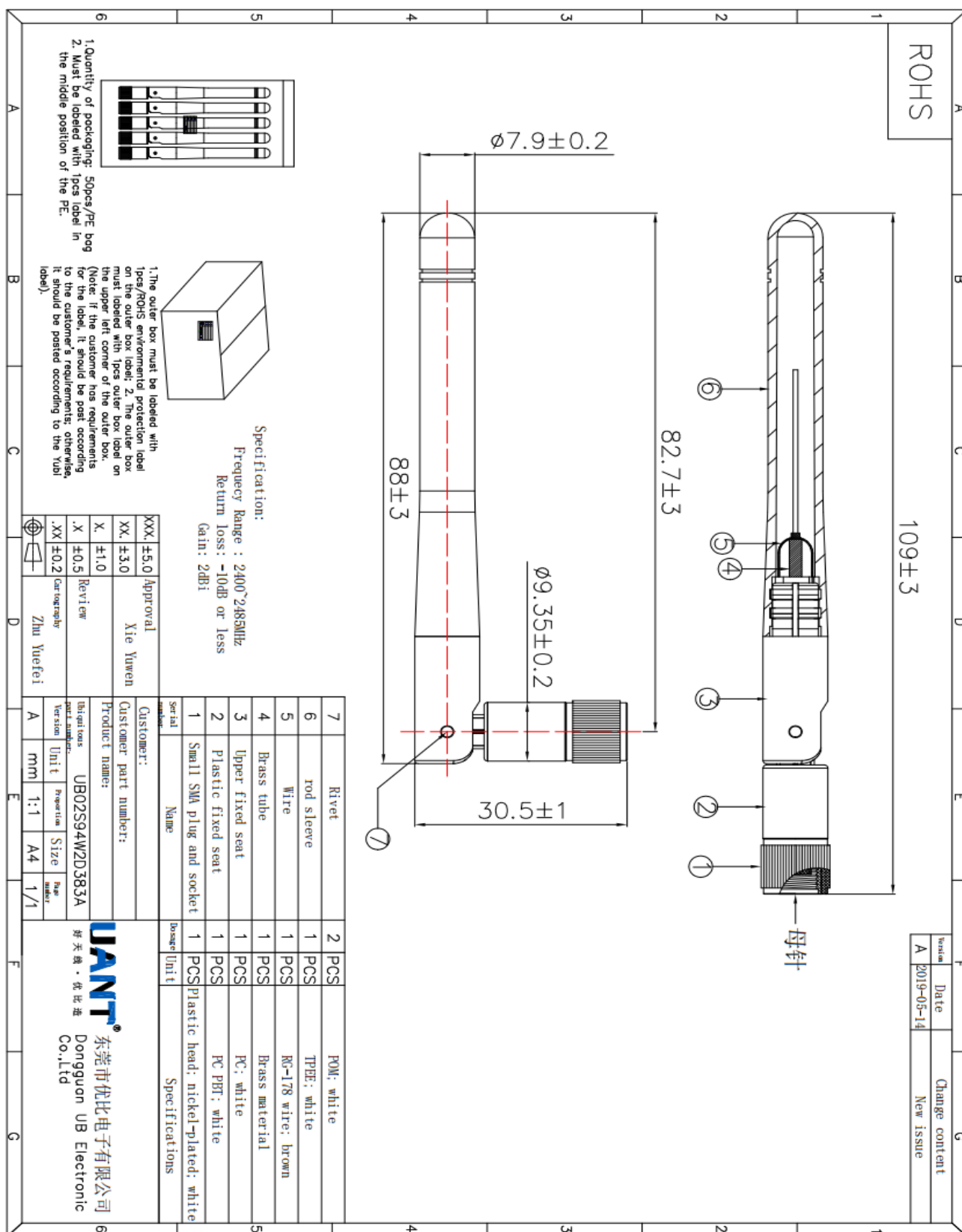
4.-----Salt spray report

1. Specifications:

Main technical parameters of the product

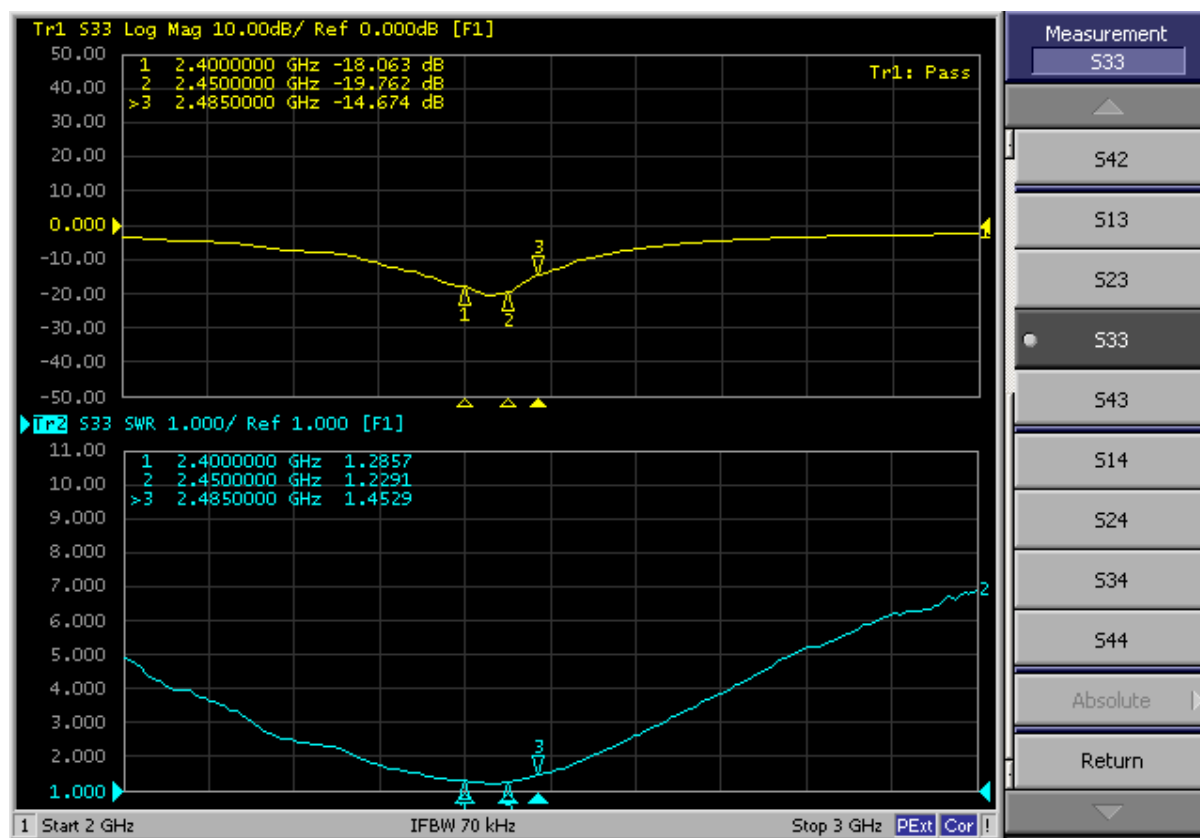
主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400~2485	Frequency Range (MHZ)	2400~2485
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	2.5 ± 0.5	Gain(dBi)	2.5 ± 0.5
输出电压 驻波比	≤ 1.92	VSWR	≤ 1.92
最大功率	10W	Admitted Power	10W
极化方式	垂直极化	Polarization	Linear, Vertical
连接方式	SMA	Connector Type	SMA
物理性能		Physical Properties	
天线本体材料	TPEE	Antenna Base	TPEE
工作温度	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$

2. Finished product image:



3. Test report:

3.1: Network analyzer test report



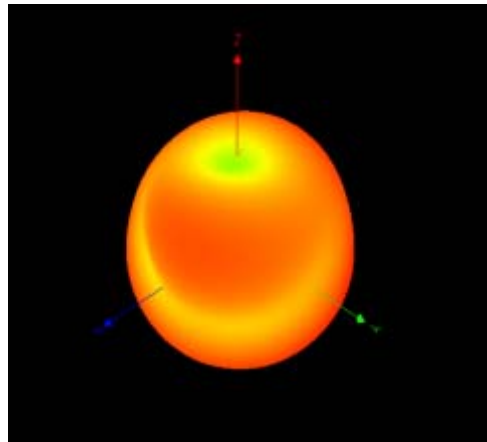
3.3: Darkroom 2D, 3DRaditation Pattern (Passive Test Report)

3.3.1 Efficiency and gain

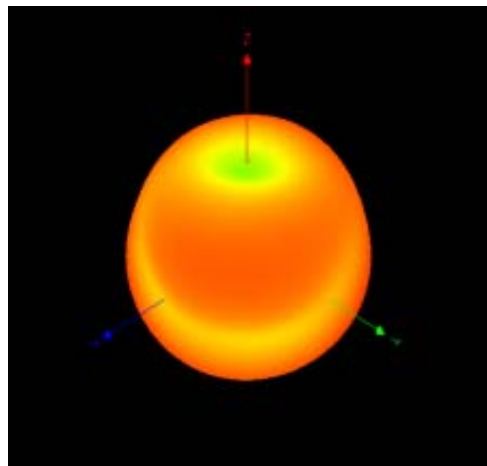
Frequency (MHz)	Efficiency (%)	Gain / dBi
2400	84.14	2.09
2450	83.18	2.41
2500	84.92	2.55

3.3.2 2D/3D field pattern diagram

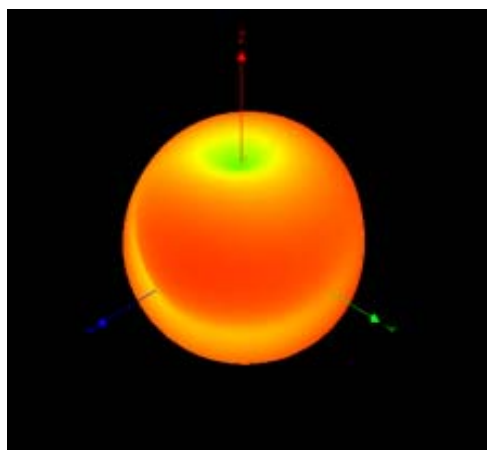
ANT 3D Radiation with MaxGain



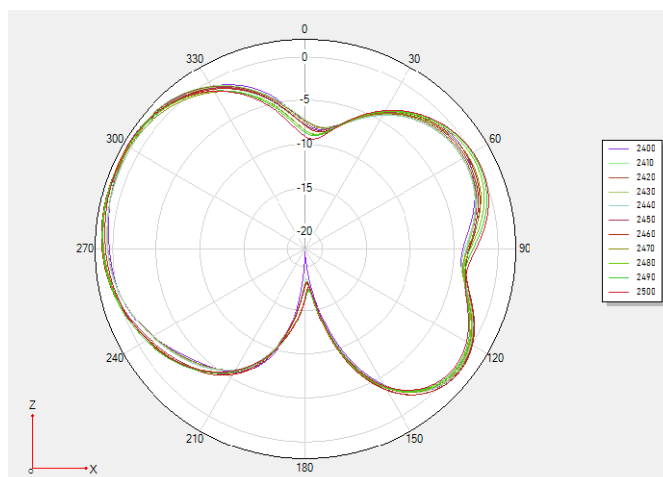
2400MHz



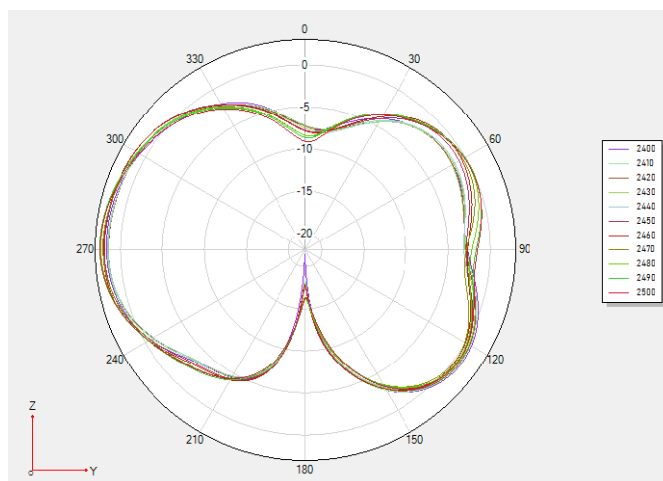
2450MHz



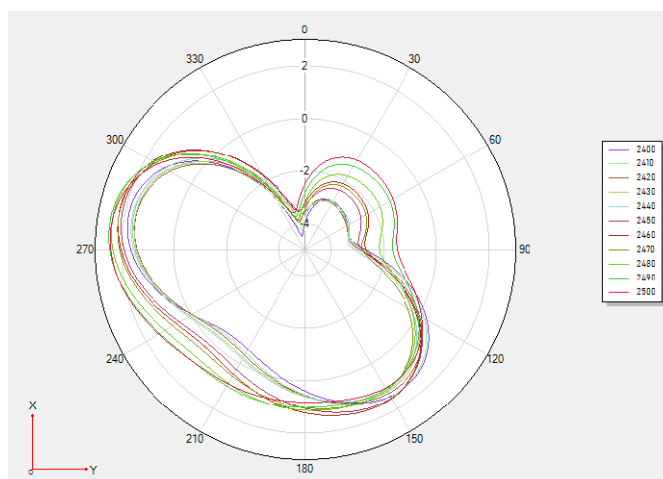
2500MHz



Phi 0 2D diagram



Phi 90 2D diagram



Theta 90 2D plot

4. Salt spray report

Salt spray test report

Supplier/Customer Name	/	During the trial	11/23 08:40-11/25 08:40		
Product name and specification	Connector	Comprehensive judgment	OK		
Part number/material number	20B00045A	Version	A		
Objective of the test: ☐ New product development test ☐ Design change test ☐ Mass production tracking test ☐ Other special requirements test ☒ Incoming/process/finished product		● 表示第 0 小时与试验结束时，试验人员需确认之时机。 ▲ 表示将试验品取出清洗与干燥，并静置 1 小时。			
Equipment name: Salt spray machine Test specification: temperature 10-55 ℃ Average collection of salt solution: 500 ml/hr Salt water solution concentration: 5 /-1 % Test time: 48 hours Sample quantity: 5 pieces					
Sample	Appearance inspection	Electrical test	Determine		
1	No rust, oxidation	/	OK		
2	No rust, oxidation	/	OK		
3	No rust, oxidation	/	OK		
4	No rust, oxidation	/	OK		
5	No rust, oxidation	/	OK		
Note:					
Approval	Li Shufei	Confirm	Yu Yapeng	Table making	Zhou Jianming

FM-QA-0010-A0