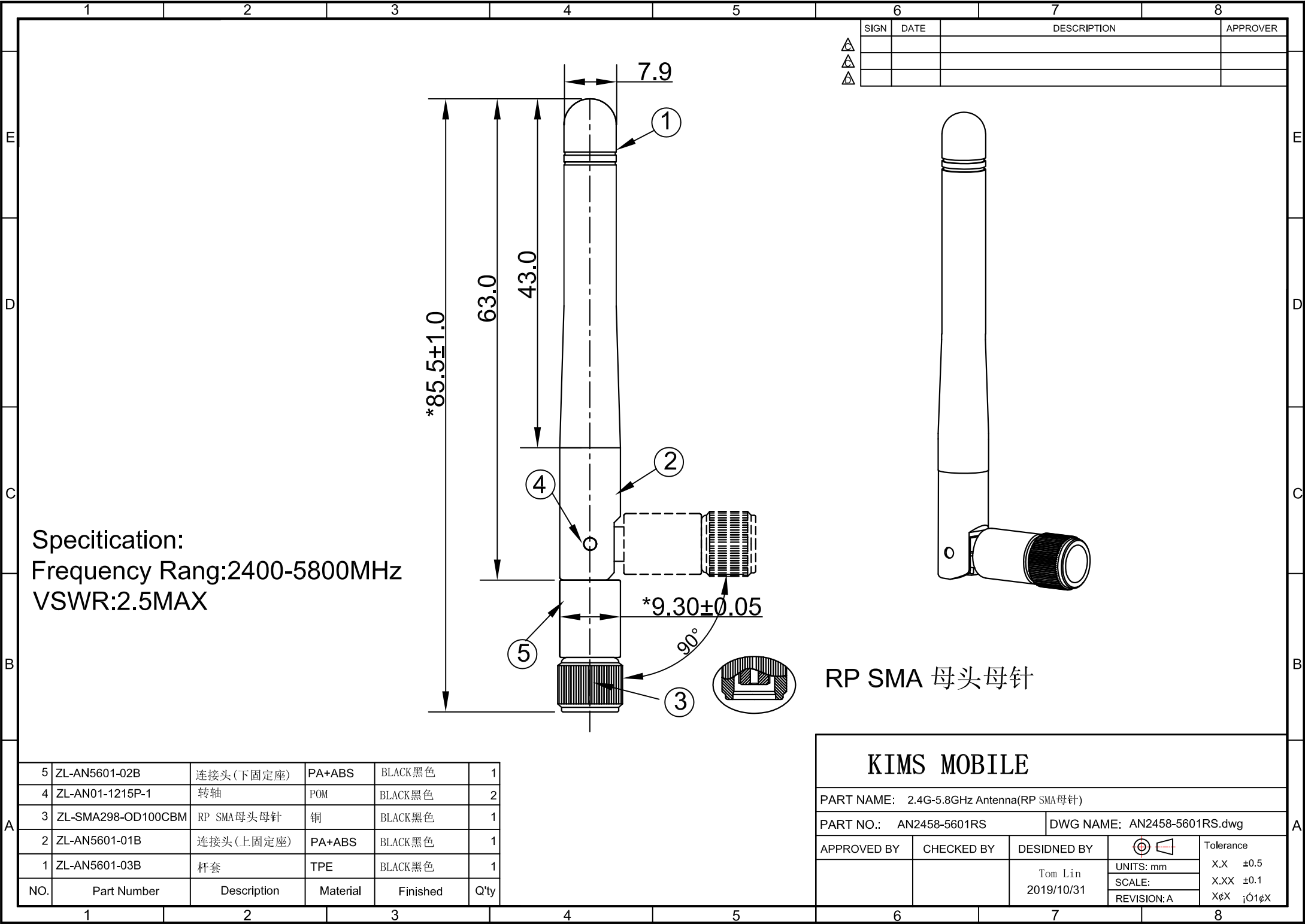




Specitication:
Frequency Rang:2400-5800MHz
VSWR:2.5MAX

SIGN	DATE	DESCRIPTION	APPROVER
△			
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RP SMA 母头母针

5	ZL-AN5601-02B	连接头(下固定座)	PA+ABS	BLACK黑色	1
4	ZL-AN01-1215P-1	转轴	POM	BLACK黑色	2
3	ZL-SMA298-OD100CBM	RP SMA母头母针	铜	BLACK黑色	1
2	ZL-AN5601-01B	连接头(上固定座)	PA+ABS	BLACK黑色	1
1	ZL-AN5601-03B	杆套	TPE	BLACK黑色	1
NO.	Part Number	Description	Material	Finished	Q'ty

KIMS MOBILE					
PART NAME: 2.4G-5.8GHz Antenna(RP SMA母针)					
PART NO.: AN2458-5601RS			DWG NAME: AN2458-5601RS.dwg		
APPROVED BY	CHECKED BY	DESIDNED BY		Tolerance	
		Tom Lin 2019/10/31		X.X ±0.5	X.XX ±0.1
				XφX	¡Ó1φX
			UNITS: mm		
			SCALE:		
			REVISION:A		

Product Number: AN2458-5601RS
Product Name: 2.4G/5.8G 双频天线

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- 6. Material Description and RoHS Test Report / Page 10 ~ end**

Product Number: AN2458-5601RS

Product Name: 2.4G/5.8G 双频天线

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz 5000 ~ 5800 MHz
S.W.R.	≤ 2.5
Antenna Gain	2.0 dBi @ 2450MHz 1.5 dBi @ 5100MHz
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	Body: TPE Hinge: ABS Holder: PA+ABS
Cable Type	RG-178
Connector Type	RP SMA
Connector Pull Test	≥ 5 Kg
Connector Torque Test	300 ~ 1000 g.cm
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Product Number: AN2458-5601RS

Product Name: 2.4G/5.8G 双频天线

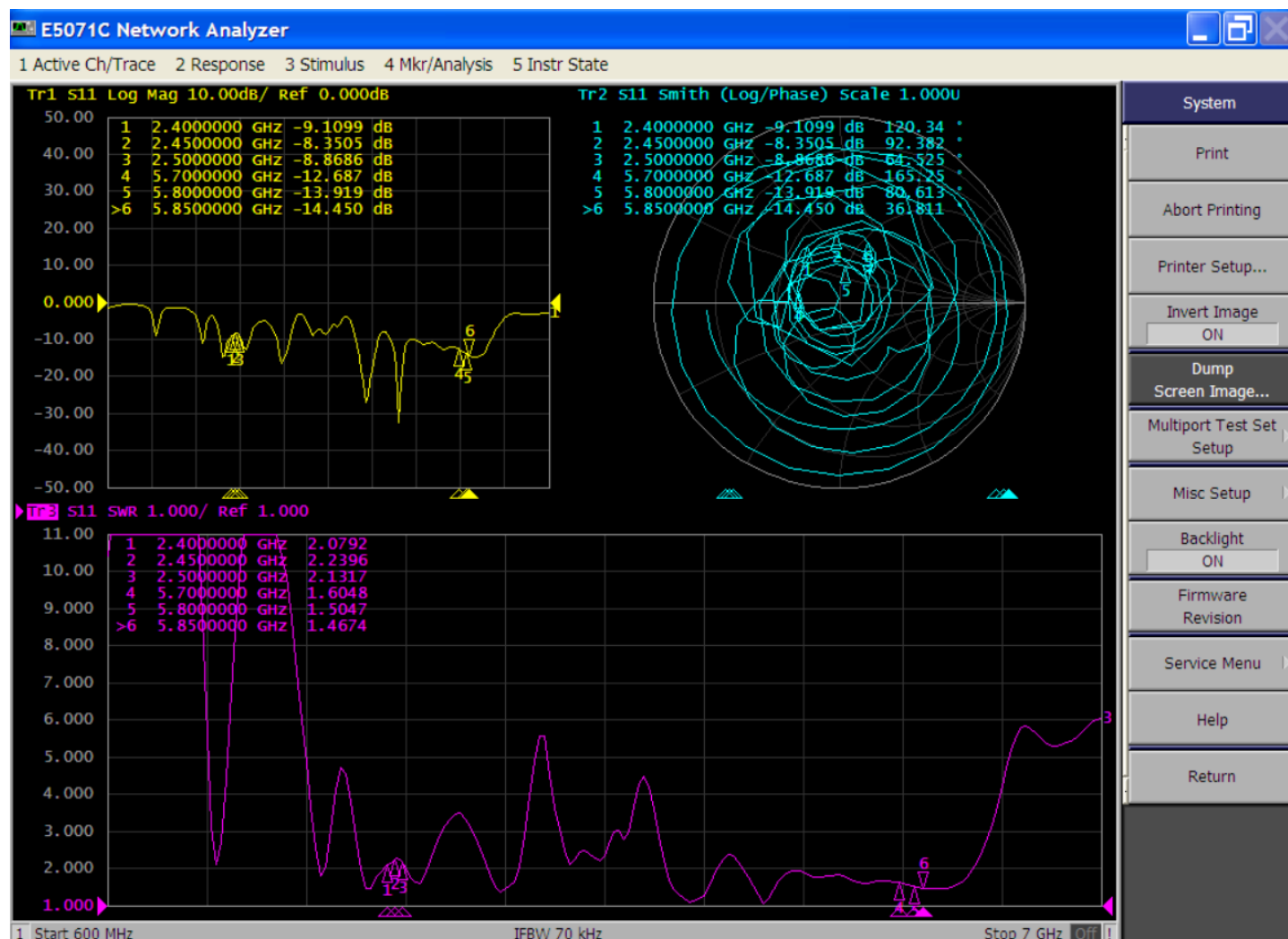
2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

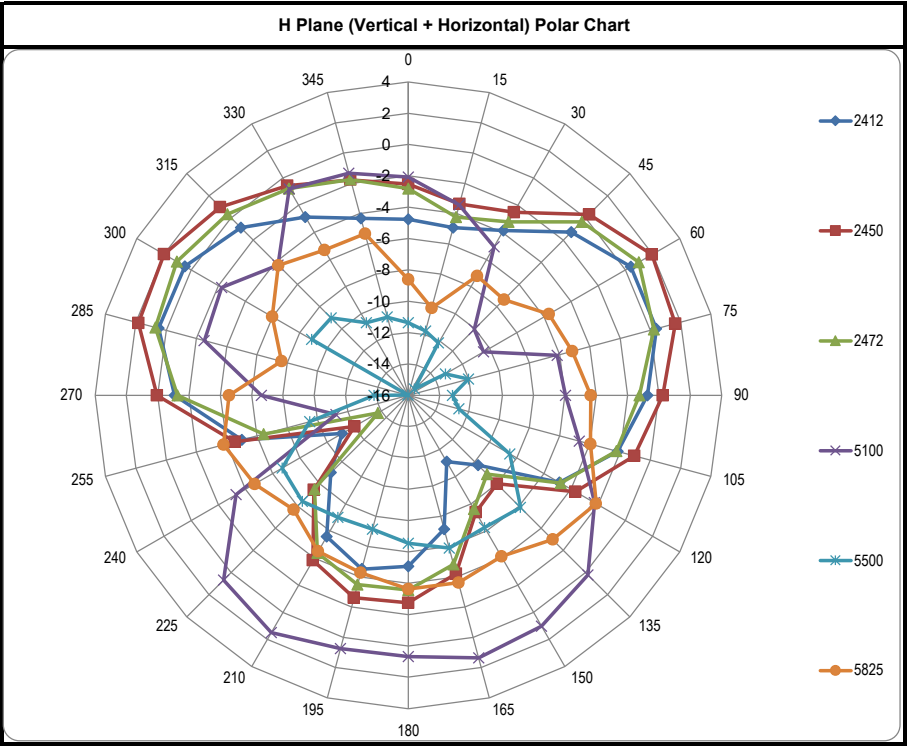
Product Number: AN2458-5601RS

Product Name: 2.4G/5.8G 双频天线

3. Antenna - S Parameter Test Data



H Plane (Vertical + Horizontal)									
No	Frequency	Maximum Value			Minimum Value			Avg. Gain	Efficiency
	[MHz]	Θ [Deg]	Φ [Deg]	Value[dBi]	Θ [Deg]	Φ [Deg]	Value[dBi]	[dBi]	[%]
1	2412	90	285	0.50	90	240	-11.11	-4.09	51.40
2	2450	90	300	2.00	90	240	-12.03	-2.47	56.16
3	2472	90	300	1.05	90	240	-13.75	-3.33	60.03
4	5100	90	210	1.50	90	255	-11.23	-3.18	10.94
5	5500	90	135	-5.87	90	285	-15.97	-10.04	12.47
6	5825	90	120	-2.16	90	15	-10.24	-5.21	32.59
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Product Number: AN2458-5601RS

Product Name: 2.4G/5.8G 双频天线

4. Antenna - Radiation Pattern Test Data

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

