



Shenzhen Jinhong Wireless Technology LTD

Antenna specificationg

Part Description	Vendor: Youkai Communication		Description: JHYK2409-321-C	
	Product Name: GWB Antenna		Project: W638	
	Part NO:		Version: A1	
Attachments	☒ Spec	☒ Drawing	☒ Sample	☒ ROHS Repot
	☒ Cpk Report	☒ FAI Report	☒ Reliability Report	☐ Safety Report
	☐ QC Flow Chart	☐ Molding conditions	☒ Material Verification Sheet	
	☒ Packing Content	☐ 3C Certificate	☒ <i>Material inspection standard</i>	
Vendor	Design: Peng Biao		Check:	Approval: Peng Fahui
Technology check	Mechanical:		Hardware:	
	ID:		Market:	
	DQE/SQE:			
Final check	ROHS: Quality plannin			
Approval condition	☐ Approved		☐ Reject	
	☐ Condition approved			
	Temporary approved			
Approval by	RD Leader(Technology Director)		Quality Director	
Distribute	☐ IQC			

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2 instructions

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna. Below is a picture of the antenna.



3 Product specifications

Electrical Specifications	
Supplier Name	Shenzhen Jinhong Wireless Technology Co., Ltd
Company address	3rd Floor, Building B, Weiye Innovation 18 Industrial Park, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province
Model Name	GWB
Antenna type	PIFA
Antenna size (mm)	15.7*21.6
Antenna color	black antenna
Frequency Range (MHz)	1575&2400`2500&5100`5850
Gain (dBi)	
VSWR	≤2
Input Impedance (Ω)	50
Polarization	Vertical
Maximum input power (W)	2
Input connector type	4th generation IPEX

4 Reliability test

1	SAIT SPRAY TEST	Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6.5~7 Spray volume: 1.4me80cm ² / H compressed air pressure: 1kgf / cm ² Test Relativity: 98 ° Temperature: 45 ° ~ 47 ° Pressure temperature: 35 ° Test time: 24hr	All characteristic range is 30% of the initial value
2	HEAT TEST	85+2℃ for 96 hours, after keep in normal condition for 30min the to test.	
3	HUMIDITY TEST	40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30min the to test.	
4	COLD TEST	-40+2℃ for 96hours, after keep in normal condition for 30min the to test.	

5 Electrical performance test

5.1 Test equipment and environment

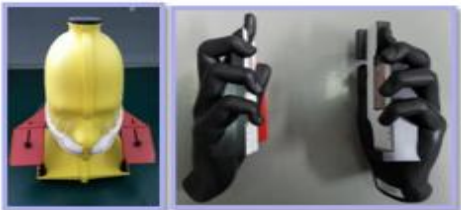
测试设备



SATIMO-24



ETS



模拟人头手



安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

测试系统	测试环境	有源测试	无源测试
SATIMO—24	温度：22℃ ± 3℃	支持2G/3G/4G	400MHZ——6G
ETS	湿度：50% ± 15%	BT/WIFI/GPS	

5.2 OTA test

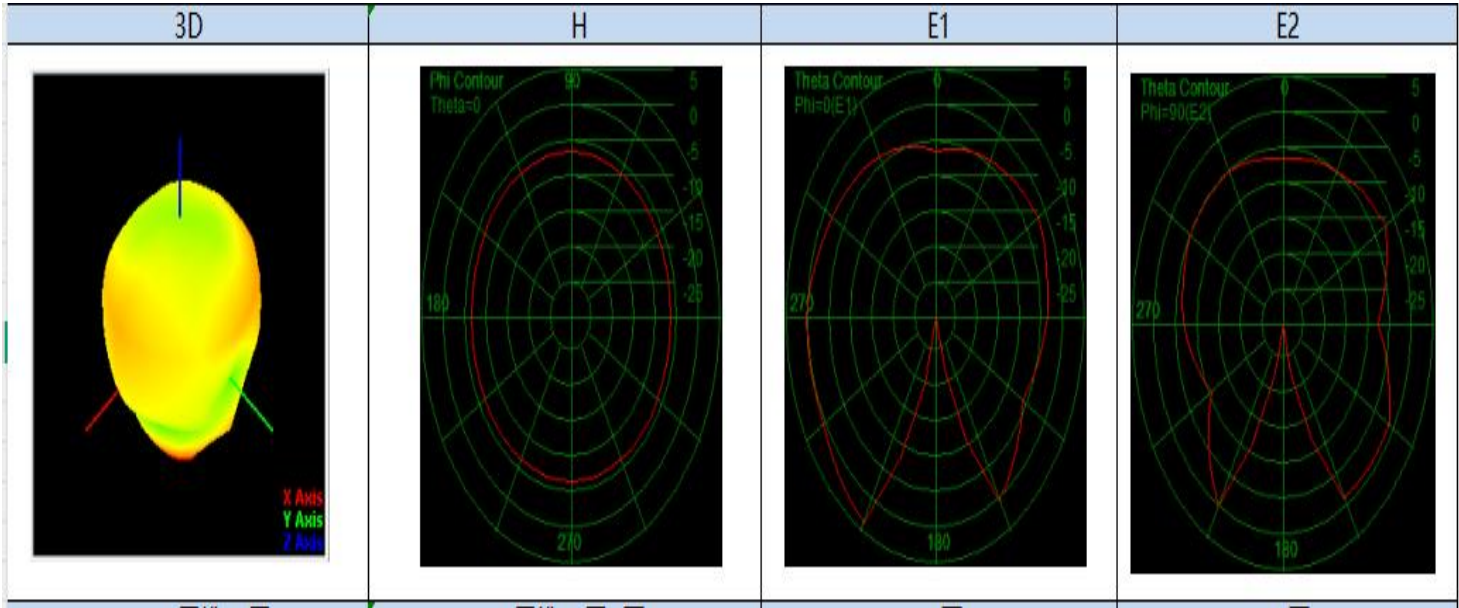
2.4G(11M)	1	9.4			-83.0		
	7	9.4			-83.1		
	13	11.3			-82.1		
5.8G(54M)	36	11.7			-70.3		
	149	10.3			-70.1		
	165	12.6			-69.2		



5.3 Antenna passive test data

GWB		
Frequency (MHz)	Gain (dB)	Efficiency (%)
1570.0	1.18	36.0%
1571.0	1.06	38.0%
1572.0	1.05	37.7%
1573.0	1.09	39.9%
1574.0	1.15	39.0%
1575.0	1.06	39.8%
1576.0	1.08	38.1%
1577.0	1.11	39.0%
1578.0	1.13	38.1%
1579.0	1.07	38.7%
1580.0	1.04	35.6%
2400.0	1.49	40.8%
2420.0	1.22	42.9%
2440.0	1.37	47.6%
2460.0	1.43	45.5%
2480.0	0.42	43.2%
2500.0	1.22	42.8%
5150.0	0.48	31.3%
5200.0	0.67	34.7%
5250.0	0.42	37.0%
5300.0	0.64	38.7%
5350.0	0.57	39.9%
5400.0	0.24	34.3%
5450.0	0.52	37.8%
5500.0	0.17	32.1%
5550.0	0.29	33.2%
5600.0	0.87	36.9%
5650.0	0.30	36.3%
5700.0	0.24	33.4%
5750.0	0.30	31.5%
5800.0	0.21	35.8%
5850.0	0.68	39.8%

Antenna Pattern



6 Engineering drawings

