

Shenzhen Yishengbang Technology Co. LTD

Shenzhen Yi Sheng Bang technology Co., LTD. Antenna Specification

Customer: MingZhi

Project: MT-1008OU

Product: WIFI Antenna—FPC

Report date: 2023-7-12

Prepared by : Zeng Li Weng

Checked by : Eason Huang

Approved by :



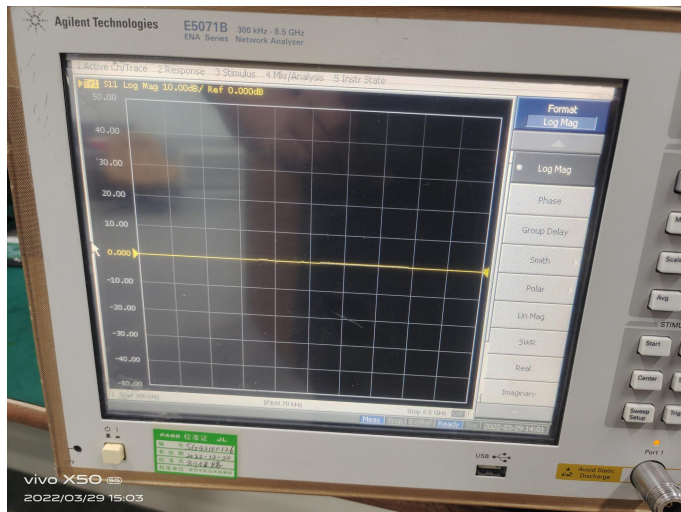
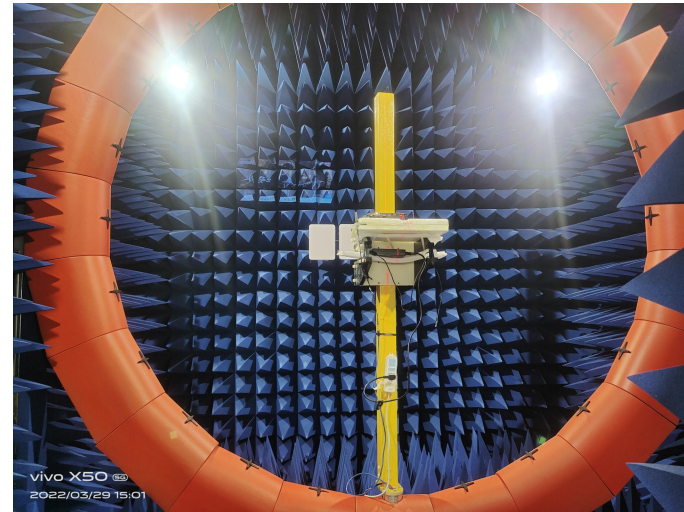
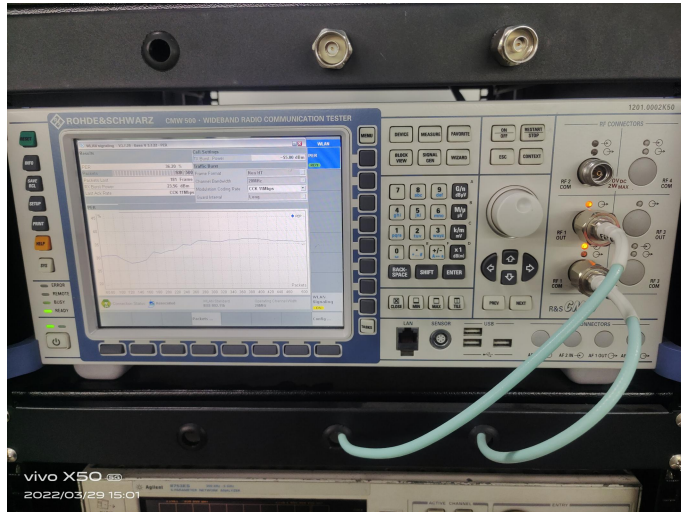
Purpose

This report is to measure the performance of SLK for Master Antenna on MingZhi. All measure data are showed below.

Content

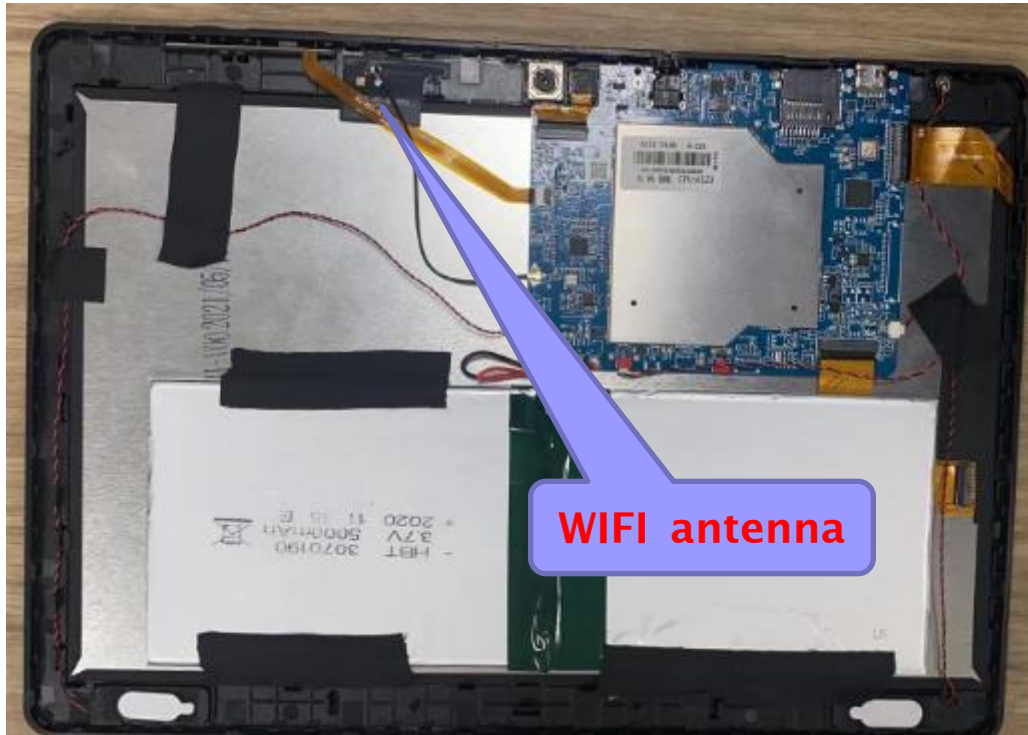
1. Test equipment
2. Product Overview
3. Test Result
 - 3.1 WIFI/BT Antenna VSWR/S11
 - 3.2 WIFI/BT Antenna Gain/Efficiency/3D DATE
 - 3.3 Schematic Diagram Of Antenna Size
 - 3.4 WIFI Antenna TRP/TIS
 - 3.5 Environmental Treatment
4. Company Address
5. Conclusions

1. Test equipment



Test equipment	Test content
network analyzer: 5071B	1.VSWR 2.Return loss 3.Smith
network analyzer: 5071B darkroom: 4*4*4M 24Probe	1.Antenna efficiency 2.Antenna gain 3.3D field pattern of antenna
Comprehensive measuring instrument: CMW500 darkroom: 4*4*4M 24Probe	1.TRP 2.TIS

2. Product Overview



3. Test Result

3.1 WIFI Antenna VSWR/S11

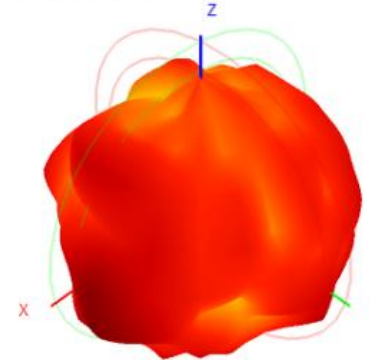


3. Test Result

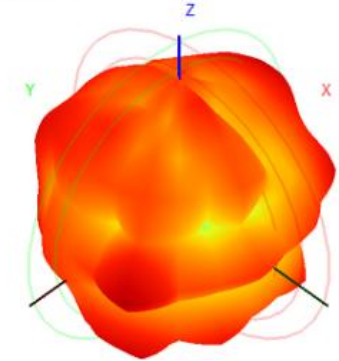
3.2 WIFI Antenna Gain/Efficiency/3D DATE

Frequency	Efficiency	Gain (dBi)	Efficiency (%)
2400.0	-4.84	0.52	34.80
2410.0	-4.43	0.91	36.05
2420.0	-4.62	0.74	34.50
2430.0	-4.52	0.91	35.31
2440.0	-4.17	1.33	38.25
2450.0	-4.40	1.08	36.32
2460.0	-4.38	1.10	36.50
2470.0	-4.89	0.66	35.44
2480.0	-4.65	0.91	34.29
2490.0	-4.71	0.99	33.83
2500.0	-4.49	1.09	35.58

2450.0MHz H+V, Eff: 36.3%

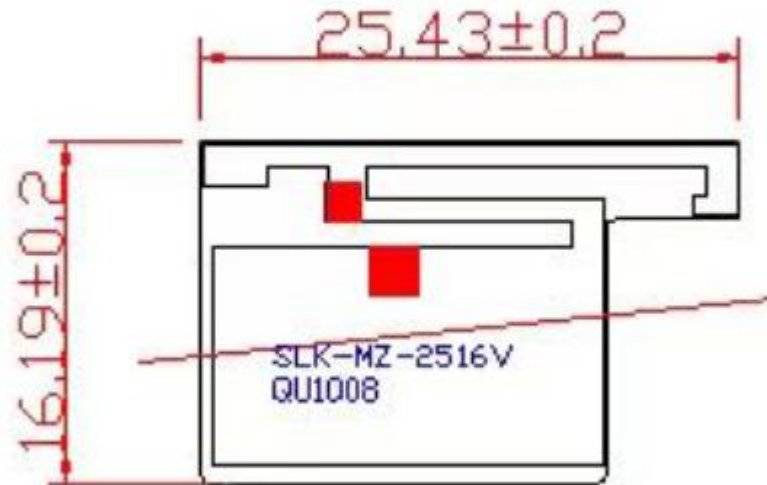


Back View



3. Test Result

3.3 Schematic Diagram Of Antenna Size



3. Test Result

3.4 WIFI Antenna TRP/TIS

WIFI	CH	power(54M)	sensitivity (54M)	WIFI	CH	power(54M)	sensitivity (54M)
802.11a	36			802.11g	1	15.6	-65.5
	149				6	15.5	-66.4
	165				11	15.6	-65.7
WIFI	CH	power(11M)	sensitivity (11M)	WIFI	CH	power (MCS7)	sensitivity (MCS7)
802.11b	1	16.1	-80.4	802.11n	1	15.5	-65.2
	6	16.3	-80.5		6	15.4	-64.5
	11	16.3	-80.2		11	15.3	-64.3



4. Company Address

2nd Floor, No. 5 Yinyuan Street,
Jiaoyitang, Tangxia Town,
Dongguan City

FCC Radiation Exposure Statement:

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: Tablet PC (FCC ID: 2AAC3-F10XIPG) has also been tested against this SAR limit. SAR information can be viewed on - line at <http://www.fcc.gov/oet/ea/fccid/>. Please use the device FCC ID number for search. This device was tested simulation typical 0mm to body. To maintain compliance with FCC RF exposure requirements, use accessories should maintain a separation distance between the user's bodies mentioned above, the use of holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.



5. Conclusions

Thank you