深圳市雅诺讯科技有限公司

Shenzhen Yetnorson Technology Co.,ltd.

Shenzhen Yetnorson Technology Co., Ltd. is a reputable RF design company known for its high-quality Antennas in the technology sector. With years of experience in the industry, they have established themselves as a trusted provider of innovative solutions, demonstrating reliability and excellence in their field. Antennas you can trust.

产品规格书

PRODUCT SPECIFICATION

Customer: Micro Robotics (ZA)

Customer's part number: YN-868MHZ-5DBI

Product description: 868mhz Antenna

Uni Link's part number: Issue Date: 2023-06-14

Note: 868MHZ,SMA, ROHS

1、产品技术指标（PRODUCT TECHNICAL SPECIFICATION）

Electrical Specifications	
Frequency Range (MHz)	868MHZ
Bandwidth (MHz)	100
Input Impendence (Ω)	50
V.S.W.R	≤1.7
Gain (dBi)	5
Polarization Type	Vertical
Power Capacity (w)	50
Mechanical Specification	
Antenna Length (mm)	210mm (21cm)
Radiator	Cuprum / Copper
Connect Type	SMA MALE
Working Temp(℃)	-40~60
Radome Color	Black（黑色）
Weight (g) 重量	25

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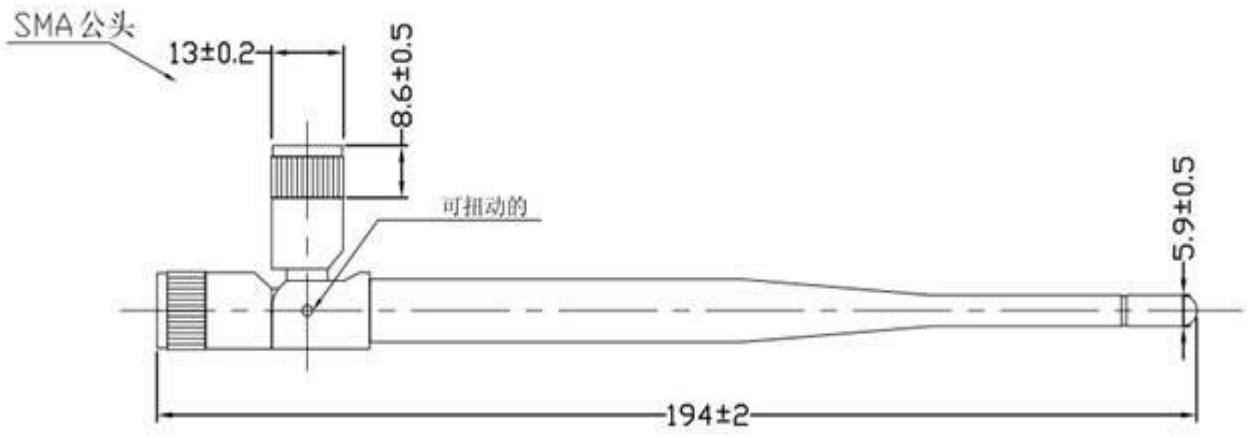
2. Product Image

3. Dimensions



4、电气特性(ELECTRIC APPLIANCE CHARACTERISTICS)

项目 ITEM		测试环境TEST CONDITION	规格 SPECIFICATION
1	返回损耗 Return Loss	使用 Agilent 网络分析仪 8753ET 测量天线 S11之返回损耗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Return Loss Characteristics.	
2	电压驻波比 VSWR	使用 Agilent 网络分析仪 8753ET 测量天线 S11之电压驻波比参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 VSWR Characteristics.	
3	阻抗 Smith chart	使用 Agilent 网络分析仪 8753ET 测量天线 S11之史密斯阻抗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Gain Response Characteristics.	
4	增益效应 Gain response	使用 Agilent 网络分析仪 8753ET 测量天线 S21 之史密斯阻抗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S21 Gain Response Characteristics.	

5□MECHANICAL CHARACTERISTICS

1	摇摆测试 BENDING TEST	放离接头 30CM 的线端上荷重 120g，固定接头后进行遥摆测试，遥摆角度左右各 60 度， 遥摆 1000 次后测试特性.	遥摆 1000 次后测试特性无任何现象显示电器性能之损坏.
2	强度测试 STRENG TEST	一个 15 磅之静负荷施加放线端底部持续一分钟.	无任何现象显示机械及电器性能之损坏.
3	拉力测试 PULLING FORCE	用拉力计接头及线财间进行拉力测试.	可承受拉力为7Kg 无任何现象显示电器性能之损坏.
4	振动测试 VIBRATION TEST	以 1.10mm 和振幅和 33.30Hz/sec 振动频率以 X 轴方向振动 120 分钟，Y 轴方向振动 120 分钟，Z 轴方向振动 240 分钟.	无任何现象显示电器性能之损坏.

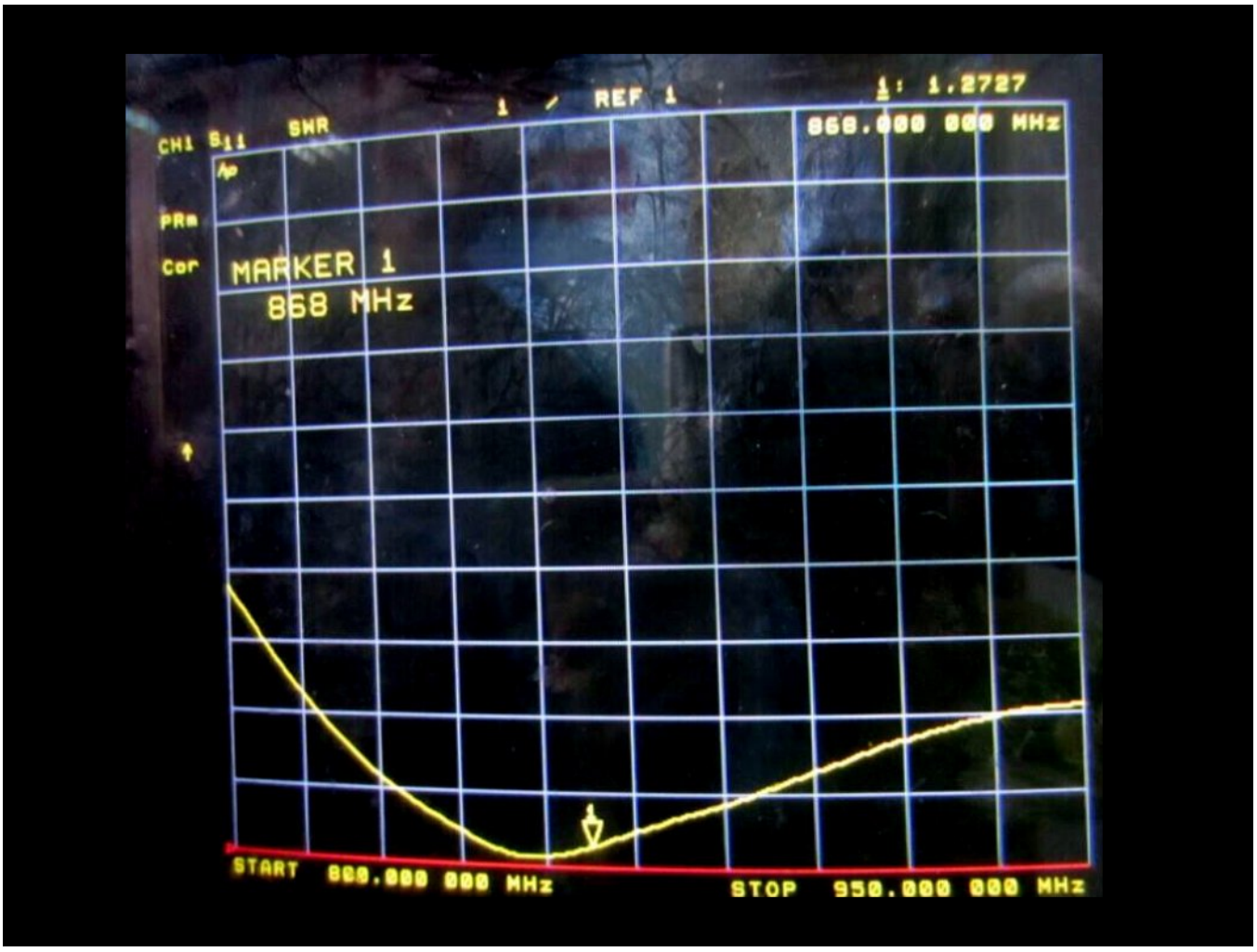
6、耐久性测试（DURABILITY）

1	盐雾试验 SAIT SPRAY TEST	盐水喷雾试验：依 GB1266-86 标准 蒸馏水：一次蒸馏 PH6.5~7 喷雾 量：1.4me80cm² /h 压缩空 气压力：1Kgf/ cm² 试验 相对度：98° 温 度：45°~47° 压力温 度：35° 测试时 间：96hr	所有规格变华范围初始值30% All characteristic range is 30% of the initial value
2	高温试验 HEAT TEST	在 85+2℃环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 85+2℃ for 96 hours, after keep in normal condition for 30mim the to test.	
3	温试验 HUMIDITY TEST	在 40+2℃ 90-95%RH 环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30mim the to test.	
4	底温试验 COLD TEST	在-40+2℃ 环境中放 96 小时，再置放正常环境中 30 分钟后进行测试 -40+2℃ for 96hours, after keep in normal condition for 30mim the to test.	

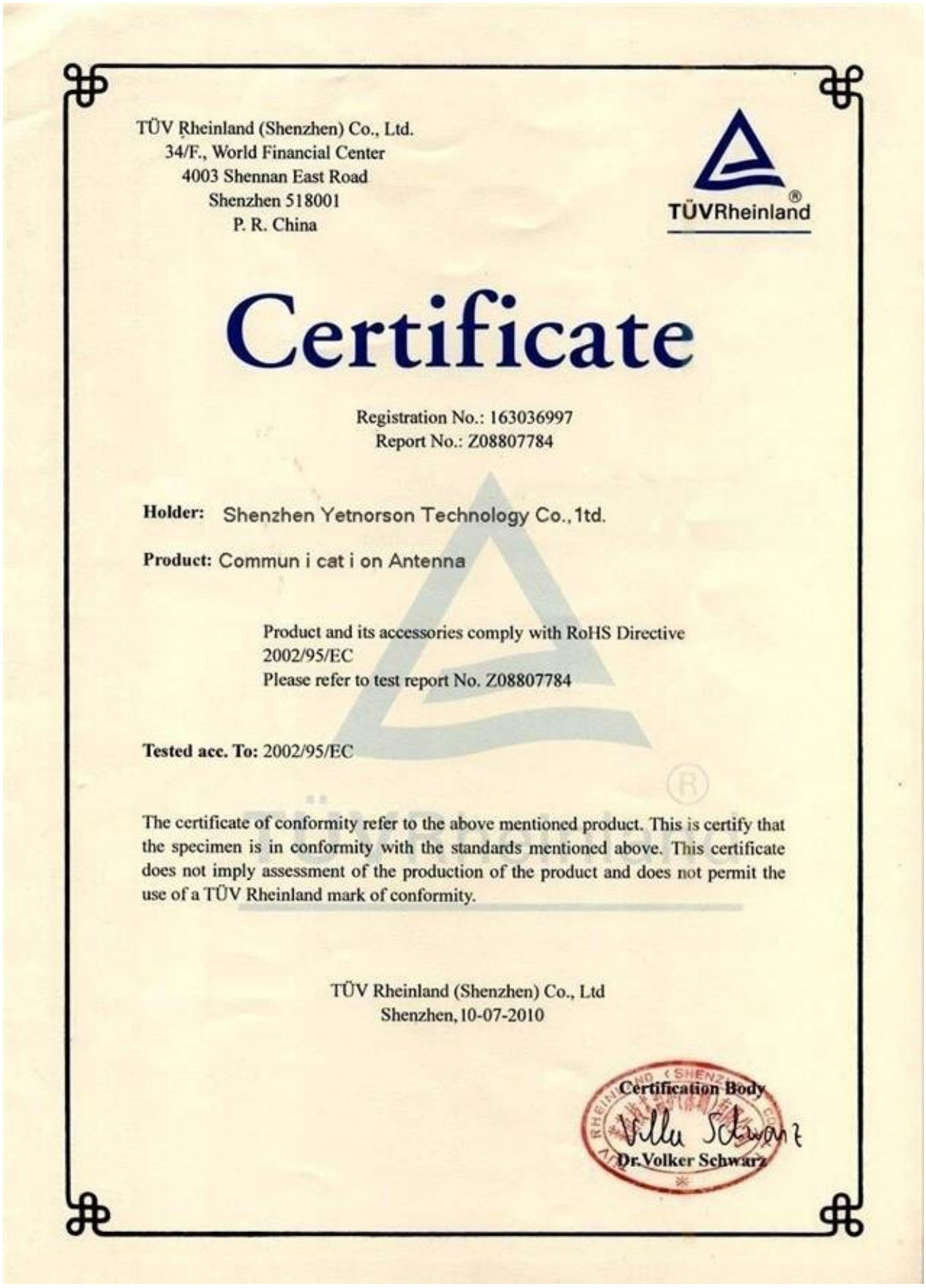
7. Antenna Gain Response tested on Agilent Network Analyzer 8753ET

The Agilent Network Analyzer 8753ET is renowned for its accuracy and versatility.

Test Range 800MHz to 950MHz



8. TUV Certificate



TÜV Rheinland (Shenzhen) Co., Ltd.
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TÜVRheinland®

Certificate

Registration No.: 163036997
Report No.: Z08807784

Holder: Shenzhen Yetnorson Technology Co., ltd.

Product: Commun i cat i on Antenna

Product and its accessories comply with RoHS Directive 2002/95/EC
Please refer to test report No. Z08807784

Tested acc. To: 2002/95/EC

The certificate of conformity refer to the above mentioned product. This is certify that the specimen is in conformity with the standards mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

TÜV Rheinland (Shenzhen) Co., Ltd
Shenzhen, 10-07-2010

Certification Body
Dr. Volker Schwarz