Shenzhen Yixinyi Technology Co., Ltd

2.4G suction cup antenna

Specification sheet

Project Name	W141
Material Name	2.4G suction cup antenna
Customer part number	Y801B091
Sealing version	V1.1
Internal part number	F08500101C09
Supplier Name	Shenzhen Yixinyi Technology Co., Ltd
Supplier address	No. 7, No. 102, Shanghenglang Fourth Industrial Zone, Tongsheng Community, Dalang Street, Longhua District, Shenzhen

Supplier				Recipient			
work out		date		work out		date	
ratify		date		ratify		date	

The recipient confirms the type of sample seal	☐ Temporary sample sealing ☑ Formal sample sealing
Standard attributes	☐ National standard ☑Enterprise standard ☐other

Catalogue

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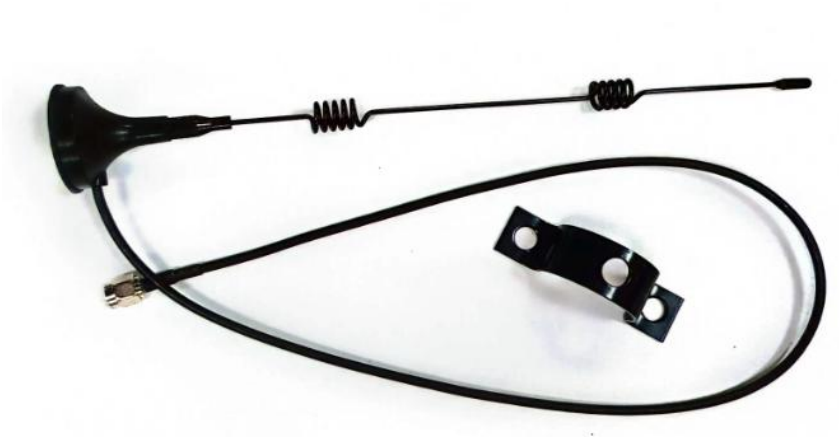
1、Product images

The report mainly provides parameter tests on the performance of 2400MHz to 2500MHz antennas, which are external suction cup antennas.



2、Product testing parameters

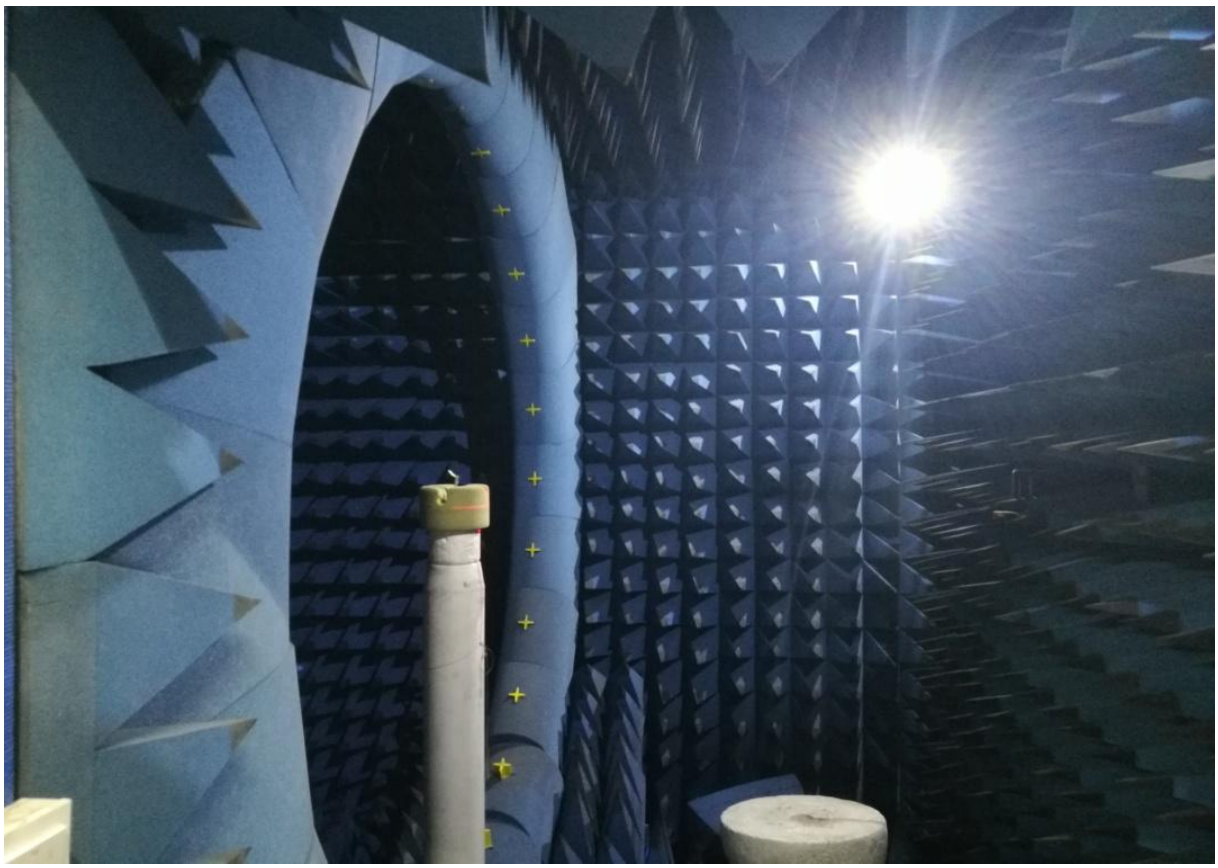
产品名称(Name)	2.4G suction cup antenna	产品型号(Model Type)	F08500101B09
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frenquency Range)	2400Mhz-2500Mhz	极化方式 （Polarization）	垂直 vertical
输入阻抗(Impedance)	50 Ω	辐射方向 (Radiation direction)	全向 omnidirectional
驻波比（VSWR）	≦1.5	功率容量(Power)	50W
增益（Gain）	3.62dBi	天线类型(Antenna type)	Monopole
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	195mm±3mm	外壳颜色(Radome Color)	black
连接器型号 (Connector)	RP-SMA	引线长度(Cable Length)	500mm
外壳材料 Radome Material	ABS/PC	线材规格 (Wire specifications)	RG174
		固定方式(Fixed method)	Magnetic attraction
工作温度 (Working Temperature)	-40℃-+85℃	存放温度 (Limit Temperature)	-40℃-+125℃
海拔(altitude)	All below 4000 meters meet the usage requirements	湿度(humidity)	Less than 95% meet usage requirements

The appearance surface is clean, undamaged, the pins are smooth and upright, and the surface characters are clear and firm

3、Test environment

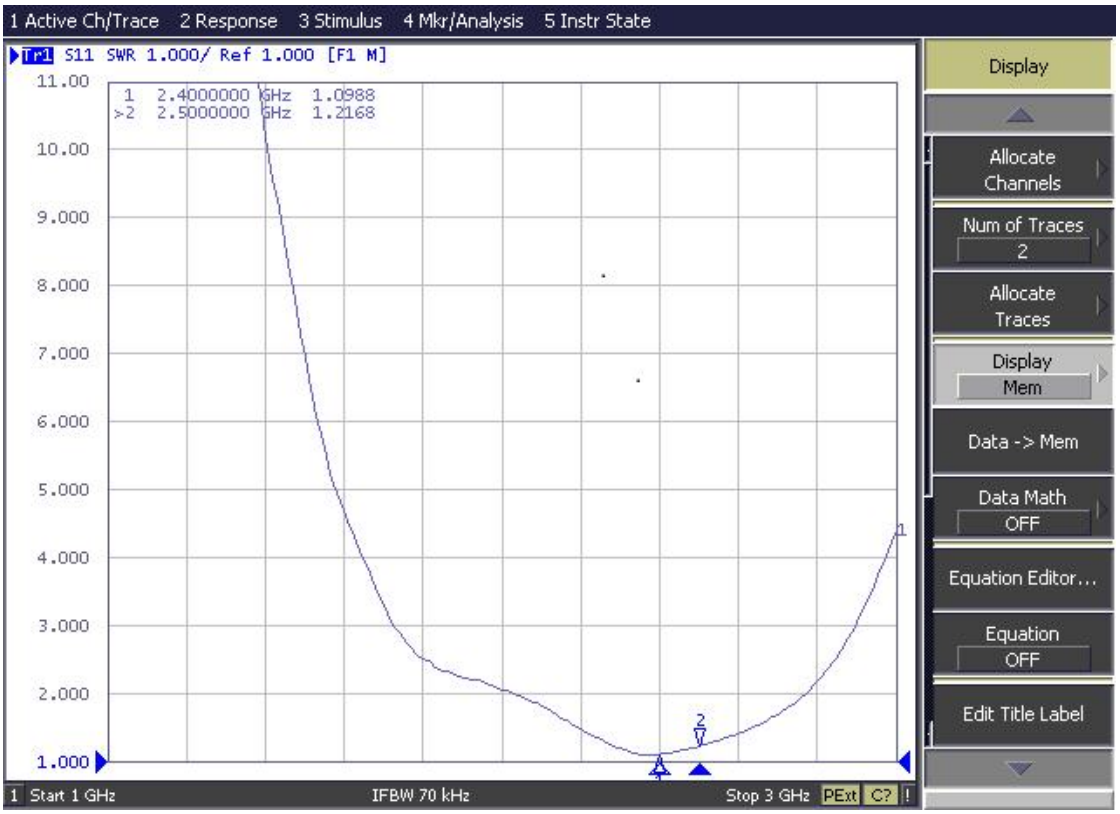
The company has the leading French Satimo SG24 OTA testing system, ETS OTA standard testing system, and MicroPross NFC testing system in the communication industry, which can provide customers with accurate testing reports quickly and stably. It fully complies with CITA standards and supports active and passive testing of various standards such as GSM/CDMA/WCDMA/TD/LTE/WIFI/GPS/MIMO.

The MicroPross NFC system can meet the testing requirements of various operators, conduct rapid performance testing on NFC equipment, and output formal certification test reports



4、Passive test data

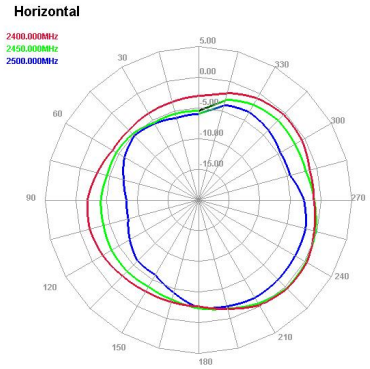
SWR

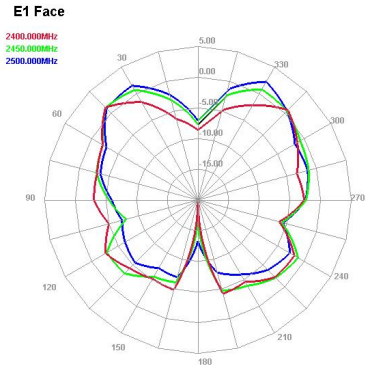


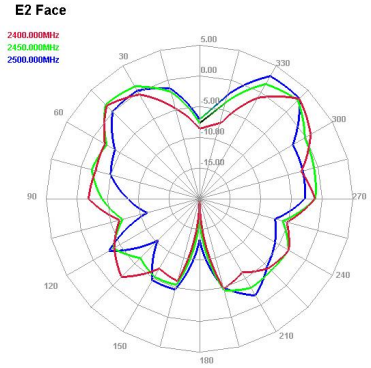
Passive efficiency/gain

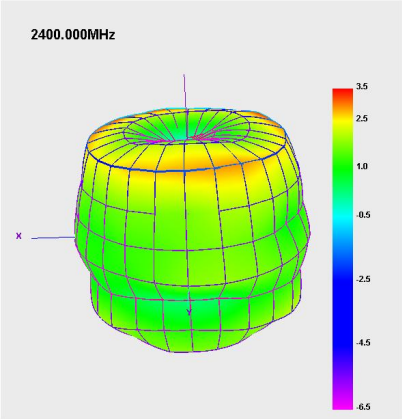
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	63.93	-1.94	3.50
2410	64.39	-1.91	3.58
2420	65.28	-1.85	3.62
2430	67.06	-1.74	3.59
2440	67.65	-1.70	3.49
2450	67.01	-1.74	3.21
2460	64.69	-1.89	3.08
2470	61.91	-2.08	3.19
2480	56.91	-2.45	3.34
2490	56.06	-2.51	3.61
2500	56.44	-2.48	3.87

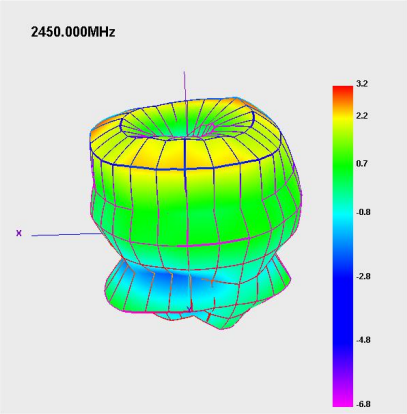
Antenna pattern 2D/3D

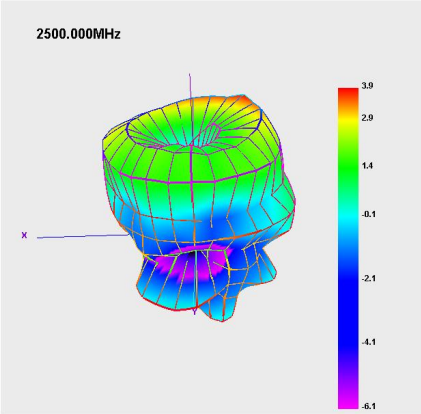




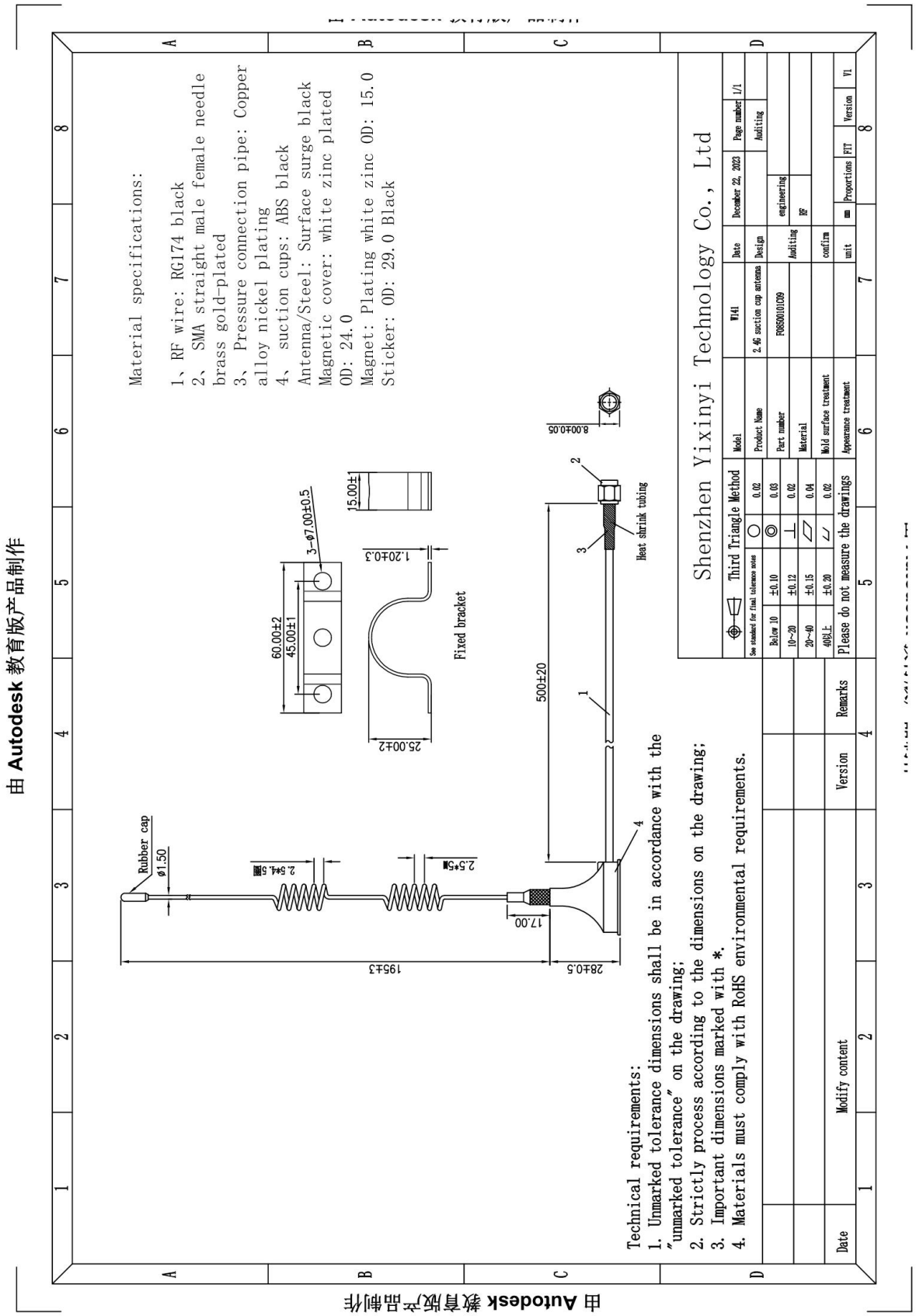








5、Product structure diagram



6、High temperature and high humidity test record table

Shenzhen Yixinyi Technology Co., Ltd

High temperature and high humidity test record table

Test date	October 21, 2023	Test number:20231021009
Test time	From 12:10 on October 21st to 12:10 on October 23rd, a total of 48 hours	
Machine operation during the experiment: normal		
During the experiment, there is no interruption: no interruption		
1	Customer	
2	Product Name	W141
3	Part number	F08500101C09
4	quantity	5pcs
5	Test temperature	T=105±2℃
	Test humidity	RH=93±3%
	Test time	48 hours
determine	After being reheated to room temperature for 2 hours, the appearance inspection of the test product was carried out, and there were no cracks, deformations, or peeling of the components	
	Performance test OK	
	After the experiment, the appearance and function of the product showed no abnormalities	
Remarks:		

Review: Chen Bingbing Tested by: Wu Chen

7、环境管理限用物质调查表

Environmental Management Restricted Substance Survey Form

供应商名称（supplier' s Name）
Shenzhen Yixinyi Technology Co., Ltd

制造商名称（Raw material Manufacturer）：
Shenzhen Yixinyi Technology Co., Ltd

品名规格(Names of material and type)：2.4G suction cup antenna

有害物质名称	Name of hazardous substance	限定值 Threshold value ppm（mg/Kg）	料号 If yes，which products/part numbers	是否含限用物质 Do you products contain this substance（Yes or No）	含量 How much ppm（mg/kg）	测试日期 Implement schedule
镉及其混合物	Cadminm and its compounds	100	F08500101C09	NO	/	2023-10-25
铅及其混合物	Lead and its compounds	1000		NO	/	2023-10-25
六价铬及其混合物	Chromium VI and its compounds	1000		NO	/	2023-10-25
汞及其混合物	Mercury and its compounds	1000		NO	/	2023-10-25
多溴联苯	Poly bramjnated Biphenyls（PBBS)	1000		NO	/	2023-10-25
多溴联苯醚类	Poly bramjnated Diphenyl ethers(PBDES)	1000		NO	/	2023-10-25

供应商联络人(Contact Person)：陈冰冰　　职位(Position)：品质主管　　填表日期(Date):2023-10-25