

产品承认书 PART SPECIFICATION

料号 PART NO. : W7-2000YK-ZT01

物料描述 PART DESCRIBE: 2.4G-WIFI 天线 L:200MM

机型名称 MODEL NO. : 天线

客户签核栏 CUSTOMER SIGNATURE

概特力（东莞）科技有限公司

GTL (Dongguan) Electric Technology Co., Ltd

研发 (RD SIGNATURE)	研发审核 VERIFY

供应商签核栏 SUPPLIER SIGNATURE

XXXXXXXXXX

业务部 (SALES)	品质部 (QC)	产品开发部 (RD)

Project:		Author:Wang	File Name: 2.4G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
地址： 深圳市光明区光明街道白花社区第一工业区丽霖工业园一栋厂房 4 楼			
电话：0755-29195258 传真：0755-29590286			

Revision History

Date	Revision	Description of Changes
2023-05-26	RA	Measured with SUS301 sample.

错误！未定义书签。

2.4G 天线 PROJECT 错误！未定义书签。

ANTENNA COMPONENTST 错误！未定义书签。

1 TECHNICAL SUMMARY **3**

2 GENERAL DESCRIPTION **3**

2.1 Components/Part revisions 3

3 MECHANICAL DESCRIPTION **3**

4 ELECTRICAL PERFORMANCE **3**

4.1 Set-up 3

4.1.1 VSWR 3

4.1.2 Gain & Radiation Patterns 3

4.1.3 Matching Circuit Description 3

4.2 Measurement Data 4

4.2.1 Active result (GSM) 4

6 Mechanical drawing 5

7 RELIABILITY TESTS **6**

7.1 Test content 6

7.2 Test results 6

8 CONCLUSION **9**

Project:		Author:Wang	File Name: 2.4G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
地址：深圳市光明区光明街道白花社区第一工业区丽霖工业园一栋厂房 4 楼 电话：0755-29195258 传真：0755-29590286			

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the **2.4G 天线** program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

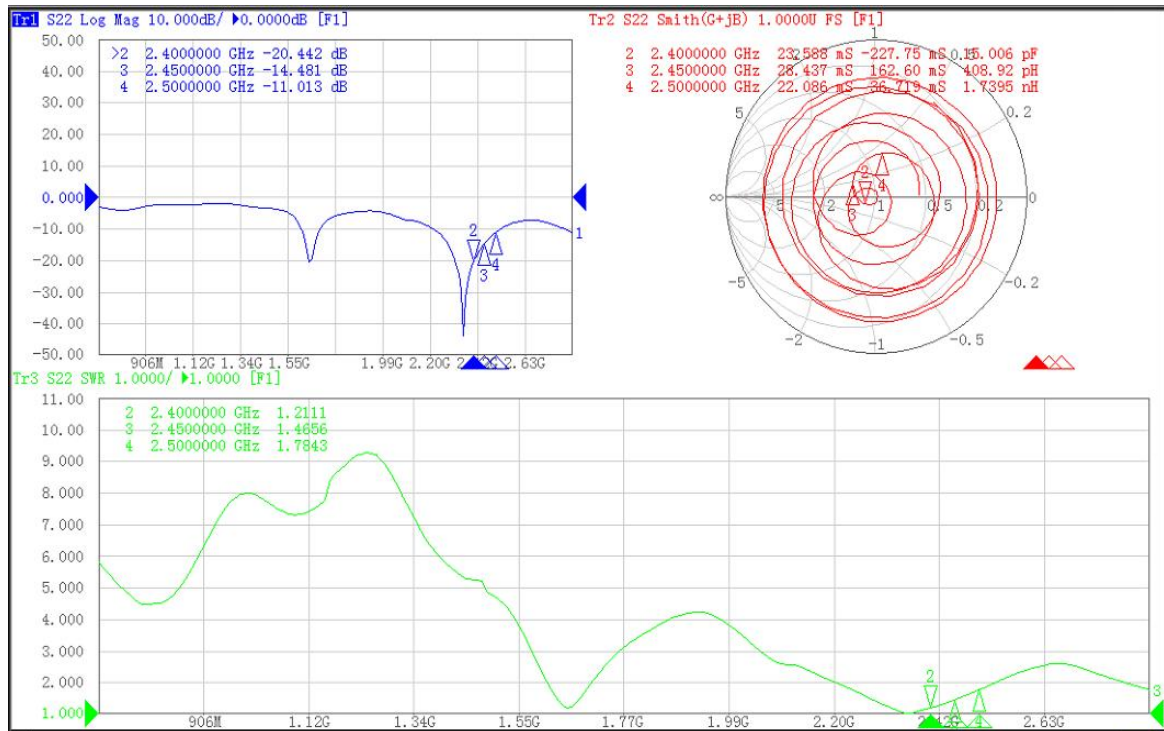
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

Project:		Author:Wang	File Name: 2.4G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
地址：深圳市光明区光明街道白花社区第一工业区丽霖工业园一栋厂房 4 楼 电话：0755-29195258 传真：0755-29590286			

4.2 Measurement Data

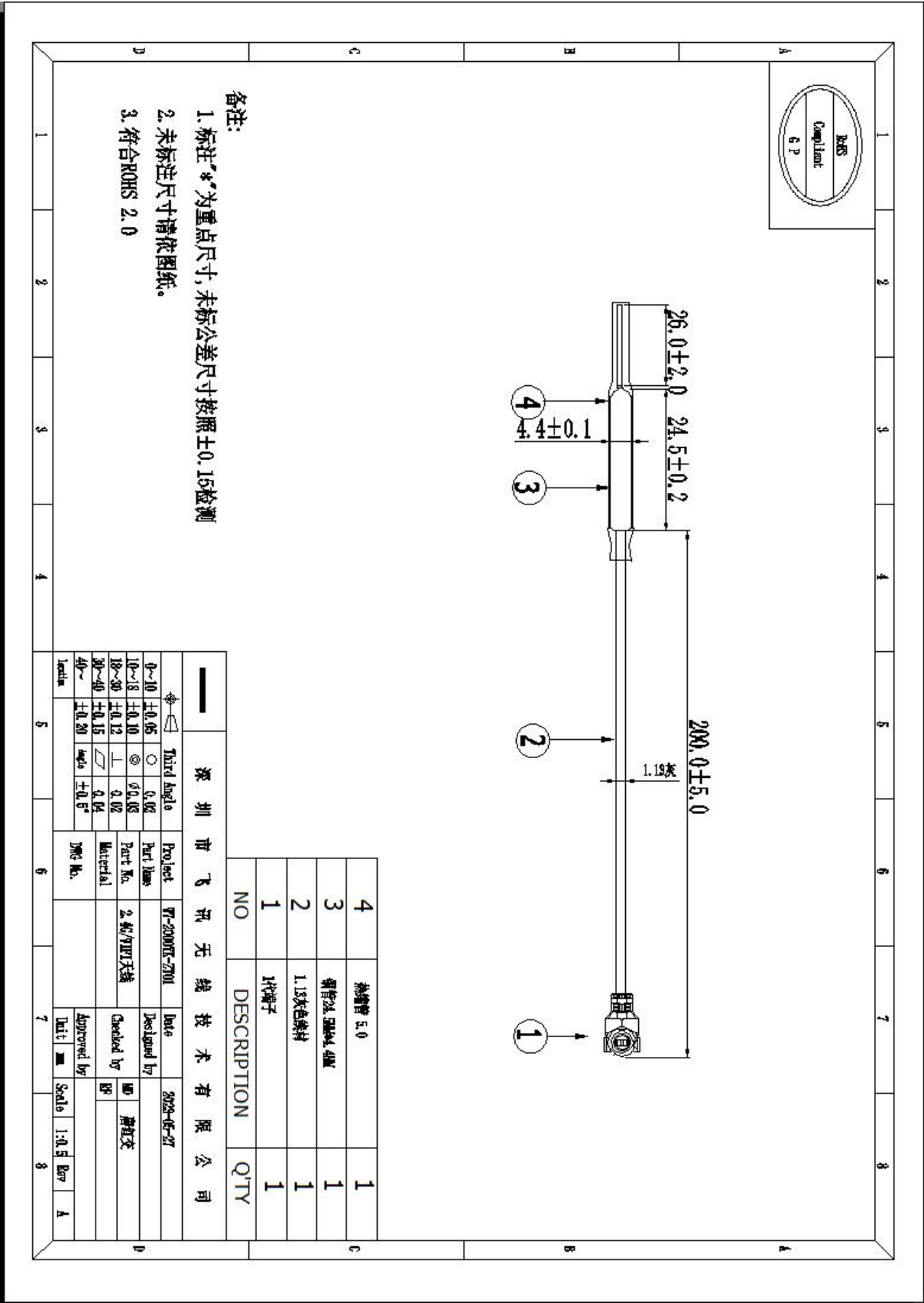
4.2.1 Active result (2.4WIFI)



Passive Test For WIFI2.4							
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)
2400	68.49	-1.64	5.29	3.14	32.236	36.254	5.29
2410	69.82	-1.56	5.33	3.18	32.809	37.006	5.33
2420	67.8	-1.69	5.25	3.1	32.128	35.675	5.25
2430	68.62	-1.64	5.43	3.28	32.934	35.686	5.43
2440	73.54	-1.33	5.78	3.63	35.889	37.652	5.78
2450	80.58	-0.94	6.13	3.98	39.637	40.948	6.13
2460	84.15	-0.75	6.17	4.02	41.3	42.854	6.17
2470	80.5	-0.94	5.75	3.6	39.436	41.069	5.75
2480	81.13	-0.91	5.64	3.49	39.405	41.721	5.64
2490	79.41	-1	5.5	3.35	38.4	41.005	5.5
2500	74.88	-1.26	5.3	3.15	36.379	38.497	5.3

Project:		Author:Wang	File Name: 2.4G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
地址：深圳市光明区光明街道白花社区第一工业区丽霖工业园一栋厂房 4 楼 电话：0755-29195258 传真：0755-29590286			

6 Mechanical drawing



Project:		Author:Wang	File Name: 2.4G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
地址： 深圳市光明区光明街道白花社区第一工业区丽霖工业园一栋厂房 4 楼			
电话：0755-29195258 传真：0755-29590286			

7 Reliability tests

7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度 5%的溶液喷雾 48HR	不能有变色，歪（变形）脱落等的缺点 腐蚀面积不能过大

7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	50	24 小时	OK	技术等级为 9 级 腐蚀<0.4mm
2	50	48 小时	OK	技术等级为 9 级 腐蚀<0.4mm

8

Conclusion

From the above test results, we can know the electrical performance of the antenna is seems good.

Shenzhen Lxc Electronics Technology Co ., Ltd ,look forward to your confirmation, thank you for your cooperation !

Project:		Author:Wang	File Name: 2.4G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
地址：深圳市光明区光明街道白花社区第一工业区丽霖工业园一栋厂房 4 楼 电话：0755-29195258 传真：0755-29590286			