天 线 规 格 书
Antenna specification for approval

客户名称:东莞凯韵　　机型:

天线类型:WIFI天线　　天线频段:2.4G/5.8G

天线料号:V7-332124-000-A　　制作日期:2026-07-03

Version: A 承 认 签 章 Admit that signature			
云 希 承 认 **Confirmation Signature**		客 户 承 认 Customer Approved	
承 辦 人 **Responsible**		承 辦 人 **Responsible**	
品质 **QC**		主管 **Chief**	
核准 **Approve**		核准 **Approve**	
日 期 **Date**		日 期 **Date**	

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一：概述

- **This approval sheet supports for WiFi antennas project. This report is for the performance of WiFi antenna.**
- **Antenna shape size：Meet the requirement of WiFi antennas**
- **Antenna band：2400MHz~2500MHz,5150MHz-5850MHz**
- **Antenna material：Antenna material meet the requirement of WiFi antennas**
- **Adhesive performance：Adhesive performance meet the requirement of WiFi antennas**
- **Antenna performance meet the spec below：**

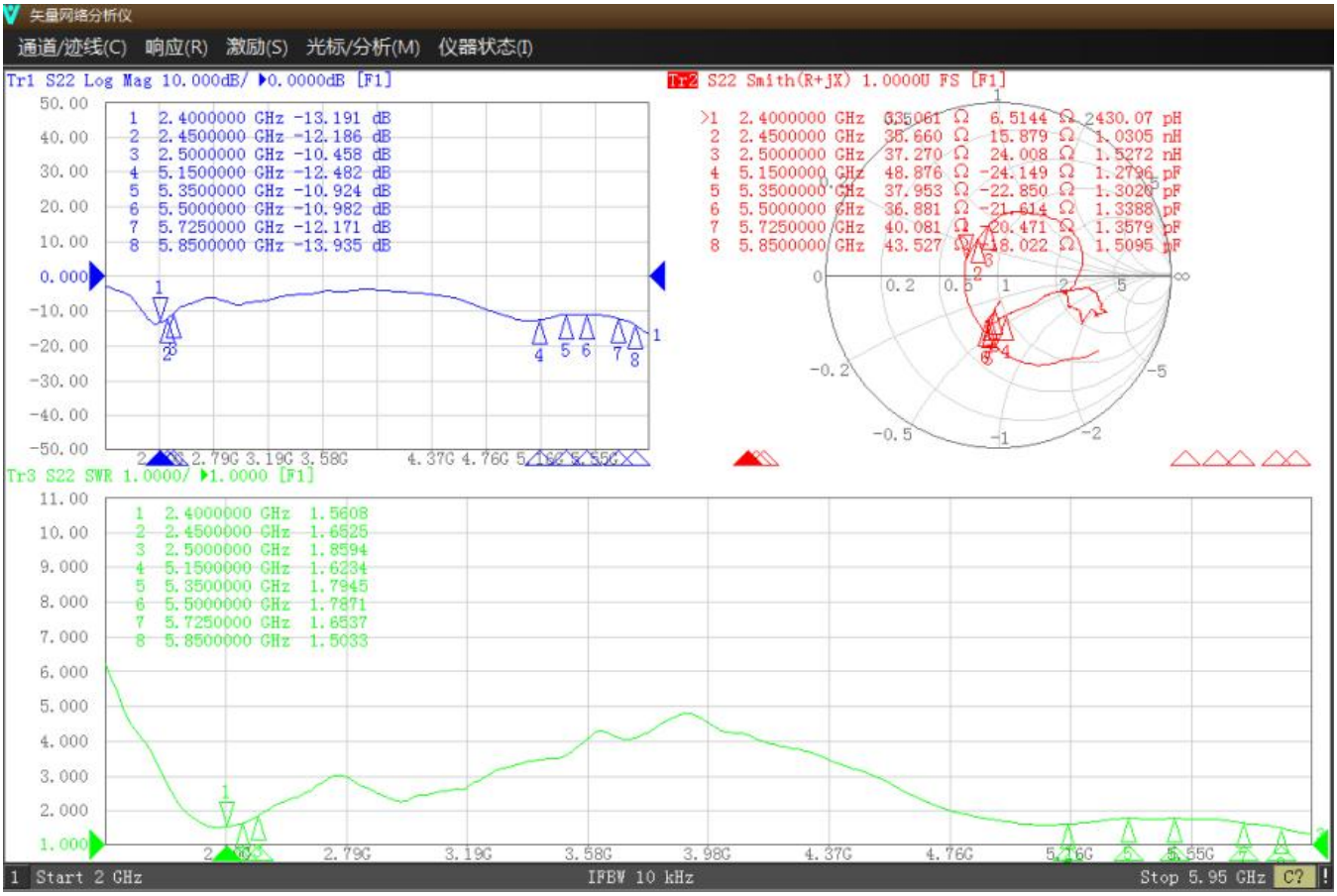
Description	2.4GHz~2.5GHz， 5.15GHz—5.85GHz		Units
VSWR	≤2.5	≤2.5	
Antenna Gain	≥3.99	≥4.64	dB
Antenna Efficiency	≥60	≥60	%

Feed Impedance	50 ohms
Operating Temperature	-40 to +85 deg C
Polarization / Azimuth	Linear / Omni-directional

- **Mechanical Information**

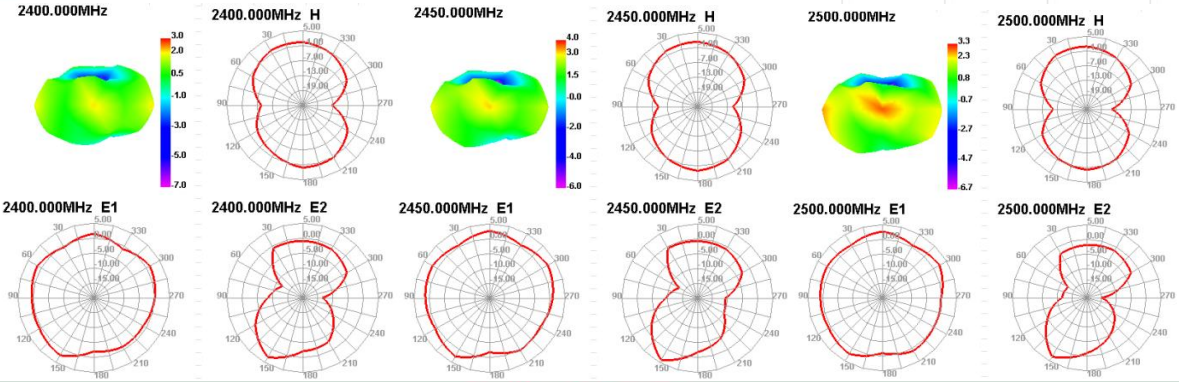
Mechanical Dimension	
Cable Length	/
Description	**WLAN antenna**
Material	/
Coaxial Cable	/
Environmental	
Operation Temperature	**-40 to +85 deg C**
Storage Temperature	**-40 to +85 deg C**

二：驻波

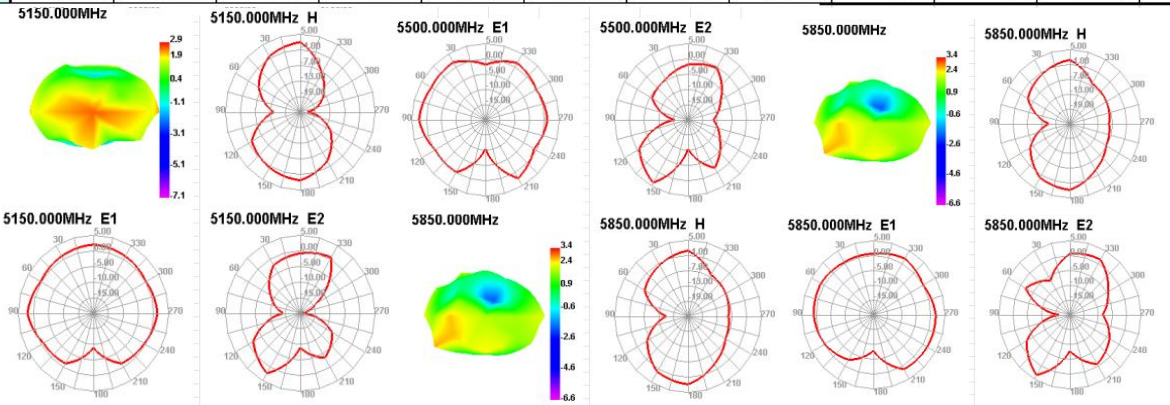

矢量网络分析仪
通道/迹线(C) 响应(R) 激励(S) 光标/分析(M) 仪器状态(I)
Tr1 S22 Log Mag 10.000dB/ ▶0.0000dB [F1]
1 2.4000000 GHz -13.191 dB
2 2.4500000 GHz -12.186 dB
3 2.5000000 GHz -10.458 dB
4 5.1500000 GHz -12.482 dB
5 5.3500000 GHz -10.924 dB
6 5.5000000 GHz -10.982 dB
7 5.7250000 GHz -12.171 dB
8 5.8500000 GHz -13.935 dB
Tr2 S22 Smith(R+jX) 1.0000U FS [F1]
>1 2.4000000 GHz 35.061 Ω 6.5144 Ω 2430.07 pH
2 2.4500000 GHz 35.660 Ω 15.879 Ω 1.0305 nH
3 2.5000000 GHz 37.270 Ω 24.008 Ω 1.5272 nH
4 5.1500000 GHz 48.876 Ω -24.149 Ω 1.2796 pF
5 5.3500000 GHz 37.953 Ω -22.850 Ω 1.3026 pF
6 5.5000000 GHz 36.881 Ω -21.614 Ω 1.3388 pF
7 5.7250000 GHz 40.081 Ω -20.471 Ω 1.3579 pF
8 5.8500000 GHz 43.527 Ω -18.022 Ω 1.5095 pF
Tr3 S22 SWR 1.0000/ ▶1.0000 [F1]
1 2.4000000 GHz 1.5608
2 2.4500000 GHz 1.6525
3 2.5000000 GHz 1.8594
4 5.1500000 GHz 1.6234
5 5.3500000 GHz 1.7945
6 5.5000000 GHz 1.7871
7 5.7250000 GHz 1.6537
8 5.8500000 GHz 1.5033
Start 2 GHz
IFBW 10 kHz
Stop 5.95 GHz

三：效率

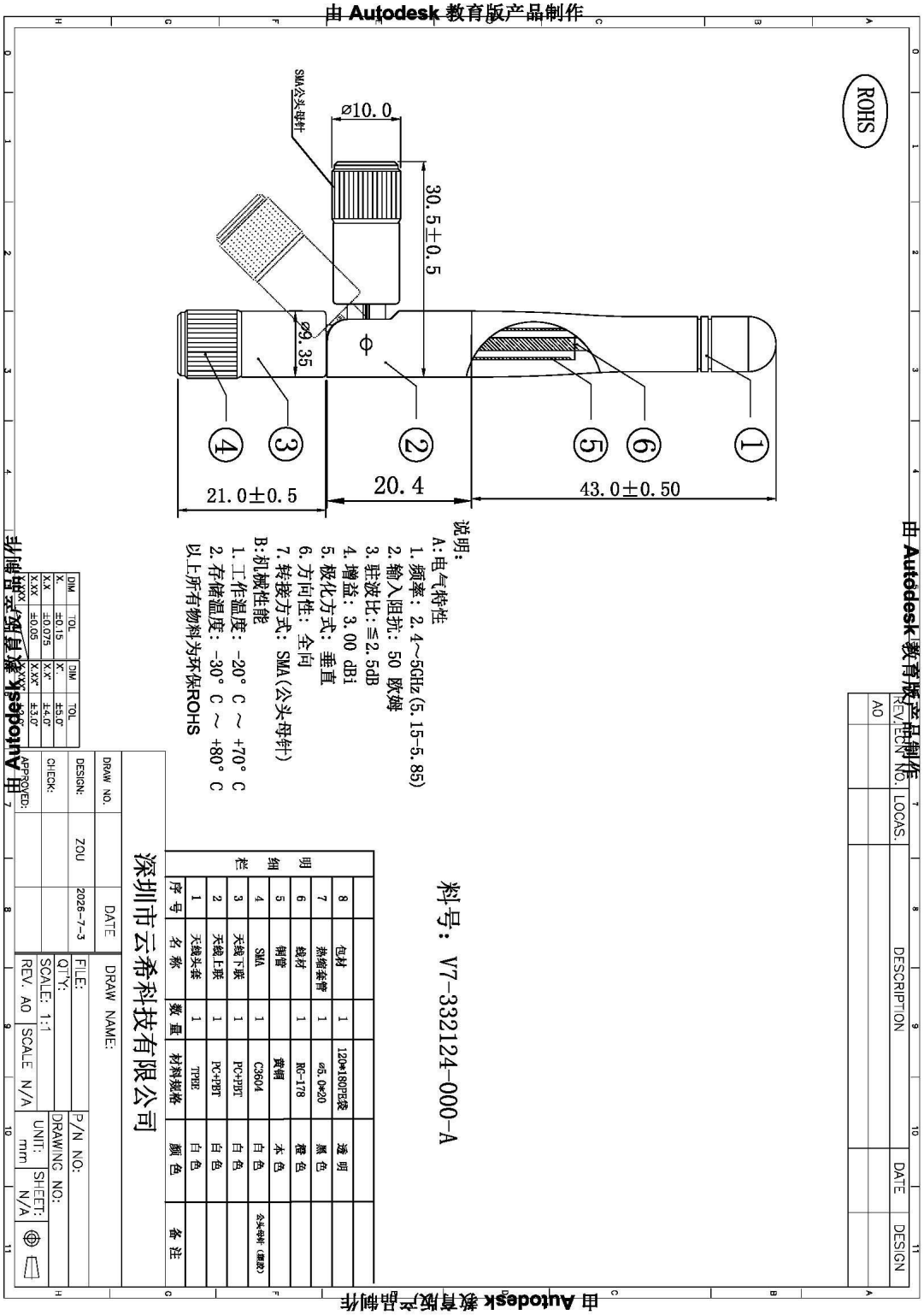
Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	76.11	-1.19	2.96	0.81	34.662	41.444	2.96	-13.53	4.15	150	46.42	46.25
2410	77.34	-1.12	3.15	1	35.604	41.733	3.15	-12.8	4.26	150	46.44	46.31
2420	82.21	-0.85	3.44	1.29	38.333	43.878	3.44	-11.87	4.29	240	46.85	46.64
2430	80.51	-0.94	3.47	1.32	37.847	42.66	3.47	-12.77	4.41	240	46.74	46.56
2440	81.22	-0.9	3.61	1.46	38.447	42.773	3.61	-13.32	4.51	240	46.92	46.69
2450	86.33	-0.64	3.99	1.84	40.986	45.349	3.99	-13.12	4.62	240	47.04	46.87
2460	83.86	-0.76	3.85	1.7	39.95	43.907	3.85	-13.59	4.61	300	46.95	46.74
2470	77.21	-1.12	3.47	1.32	36.831	40.378	3.47	-14.17	4.59	240	46.73	46.59
2480	76.33	-1.17	3.31	1.16	36.359	39.968	3.31	-14.18	4.48	240	46.84	46.65
2490	75.44	-1.22	3.19	1.04	36.079	39.358	3.19	-14.14	4.42	300	46.94	46.96
2500	80.85	-0.92	3.26	1.11	38.817	42.034	3.26	-14.9	4.19	300	47.02	47.07



Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	68.52	-1.64	2.89	0.74	30.68	37.844	2.89	-22.02	4.53	240	54.81	54.06
5200	72.75	-1.38	3.79	1.64	31.15	41.601	3.79	-18.5	5.17	270	55.24	54.38
5250	55.25	-2.58	2.7	0.55	23.658	31.59	2.7	-19.61	5.27	300	55.19	53.81
5300	58.37	-2.34	2.95	0.8	24.827	33.544	2.95	-17.35	5.29	210	54.87	54.05
5350	61.45	-2.11	3.77	1.62	26.454	34.995	3.77	-17.25	5.88	60	54.91	54.01
5400	68.13	-1.67	4.22	2.07	29.665	38.468	4.22	-13.55	5.89	90	55.63	54.38
5450	70.39	-1.52	4.25	2.1	31.023	39.371	4.25	-14.87	5.78	60	55.63	54.51
5500	77.51	-1.11	4.49	2.34	33.244	44.262	4.49	-15.48	5.6	120	57.03	55.67
5550	75.04	-1.25	4.18	2.03	31.54	43.504	4.18	-12.54	5.42	90	57.4	56.1
5600	68.62	-1.64	4.47	2.32	29.066	39.554	4.47	-20.41	6.1	120	58.17	56.51
5650	77.65	-1.1	4.64	2.49	32.975	44.671	4.64	-21.95	5.73	90	58.62	57.01
5700	74.81	-1.26	4.44	2.29	31.656	43.158	4.44	-16.67	5.7	60	58.45	57.15
5750	63.13	-2	3.55	1.4	28.668	34.465	3.55	-20.29	5.54	60	58.19	56.69
5800	68.81	-1.62	3.15	1	31.614	37.194	3.15	-23.08	4.77	270	58.33	56.85
5850	79.13	-1.02	3.43	1.28	36.957	42.169	3.43	-16.19	4.44	270	58.96	57.55



四：结构图纸


由 Autodesk 教育版产品制作
ROHS
SMA公头母针
Ø10.0
30.5±0.5
Ø9.35
Φ
④ ③ ② ⑤ ⑥ ①
21.0±0.5
20.4
43.0±0.50
说明：
A:电气特性
1.频率：2.4~5GHz(5.15-5.85)
2.输入阻抗：50 欧姆
3.驻波比：≤2.5dB
4.增益：3.00 dBi
5.极化方式：垂直
6.方向性：全向
7.转接方式：SMA(公头母针)
B:机械性能
1.工作温度：-20° C ~ +70° C
2.存储温度：-30° C ~ +80° C
以上所有物料为环保ROHS
料号：V7-332124-000-A
序号 名称 数量 材料规格 颜色 备注
1 天线支座 1 TPEE 白色
2 天线上联 1 PC+PBT 白色
3 天线下联 1 PC+PBT 白色
4 SMA 1 C3604 白色 金头母针（镀金）
5 铜管 黄铜 本色
6 线材 1 RG-178 棕色
7 热缩套管 1 φ2.0*20 黑色
8 包材 1 120*180PE袋 透明
DRAW NO.
DESIGN: ZOU 2026-7-3
CHECK:
APPROVED:
DATE
深圳市云希科技有限公司
DRAW NAME:
FILE:
QTY:
SCALE: 1:1
REV. A0
SCALE N/A
UNIT: mm
SHEET: N/A
P/N NO:
DRAWING NO:
DIM TOL
X ±0.15
X.X ±0.075
X.XX ±0.05
X° ±5.0°
X.X° ±4.0°
X.XX° ±3.0°
REV. ECN NO. LOCAS. DESCRIPTION DATE DESIGN
A0
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