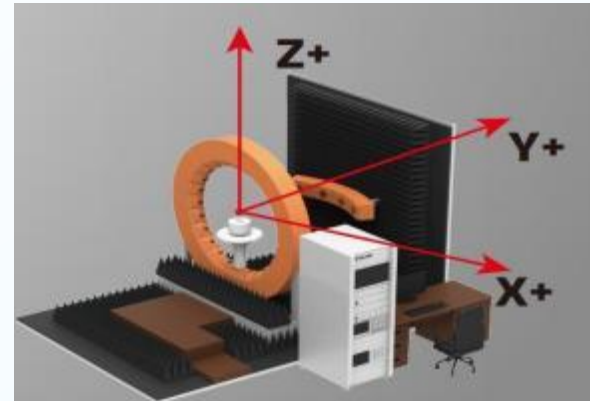


TestSystem

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



Test Result VSWR&Log Mag&Smith(Ω) 1#



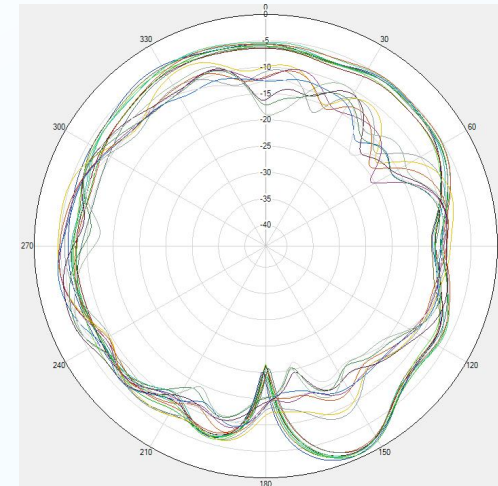
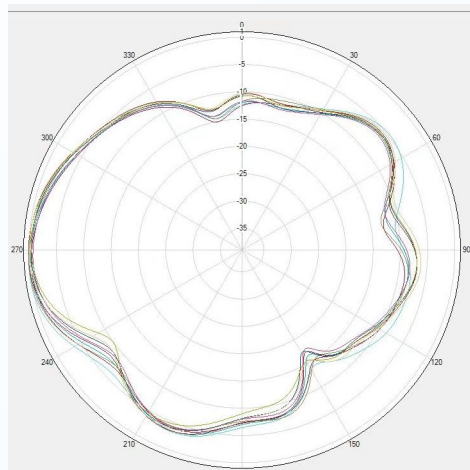
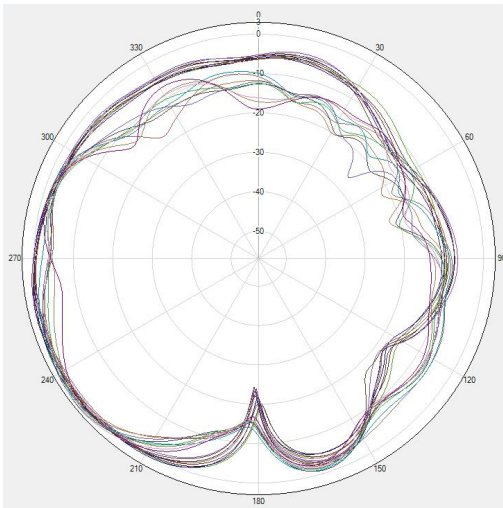
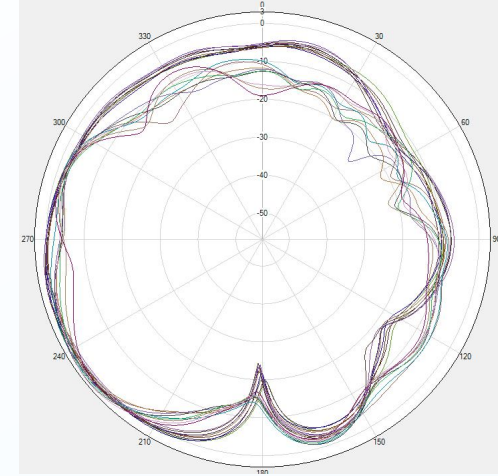
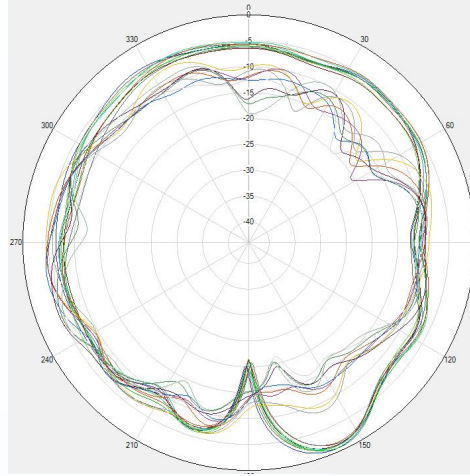
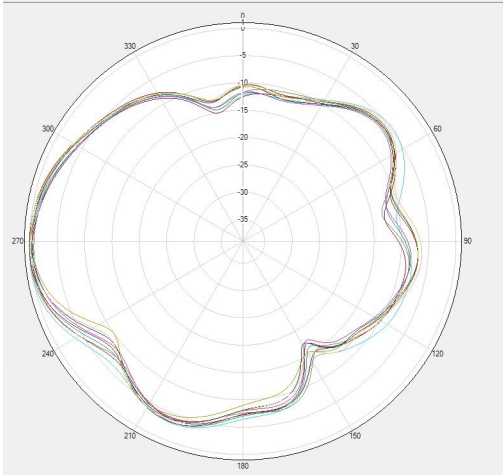
Test Result VSWR&Log Mag&Smith(Ω)

Gain & Efficiency——**ANT 1#**

Frequency (MHz)	Max GAIN (dBi)	Efficiency (%)	Frequency (MHz)	Max GAIN (dBi)	Efficiency (%)
2400	1.87	40.46	5100	2.13	35.26
2410	1.93	41.59	5190	1.9	36.17
2420	2.09	44.36	5280	2.18	37.44
2430	1.96	45.39	5370	2.42	38.29
2440	2.03	46.67	5460	1.65	39.26
2450	2.04	45.08	5550	1.18	38.44
2460	1.99	44.26	5640	2.86	37.57
2470	2.13	43.25	5730	2.84	37.11
2480	2.22	41.31	5800	3.16	36.24

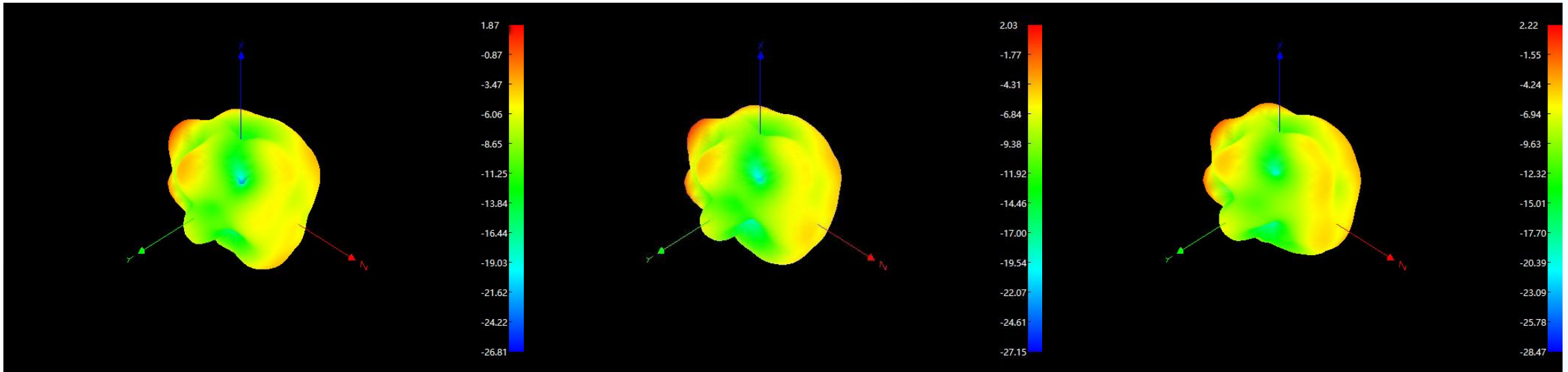
Test Result

2D Pattern——WFIANT 1#



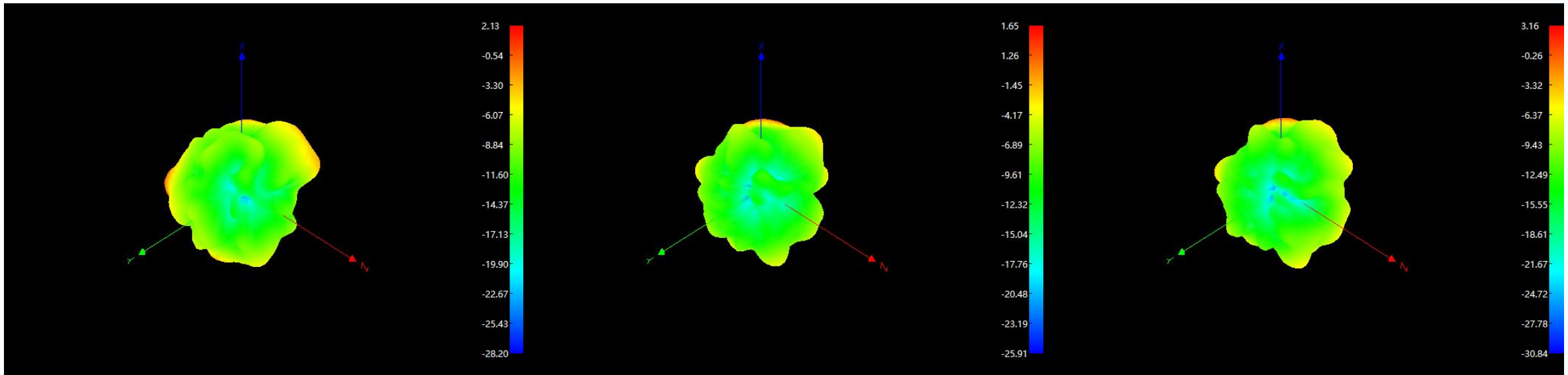
Test Result

3D Pattern—WFI **ANT 1#**

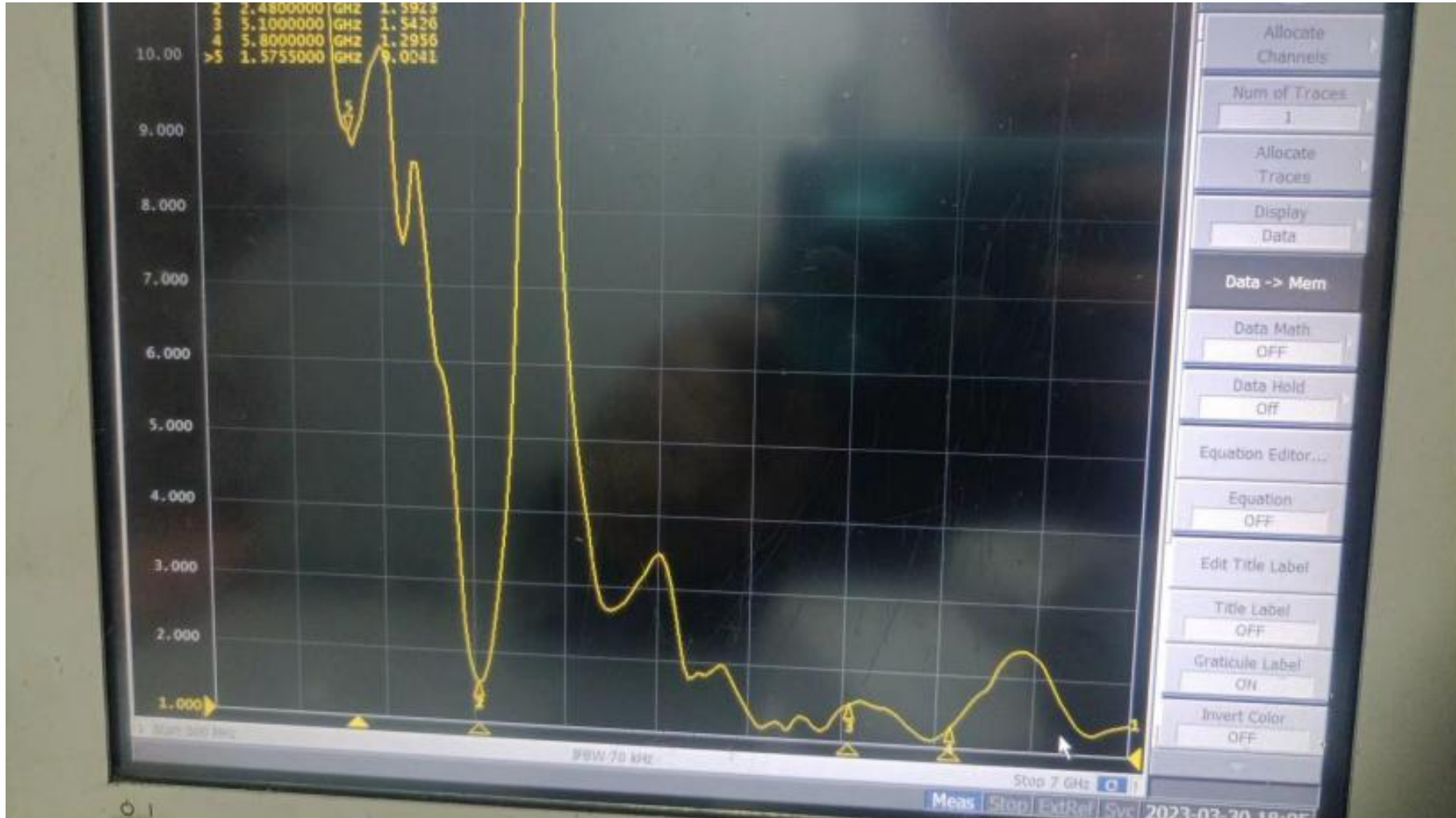


Test Result

3D Pattern——WFIANT 1#



Test Result VSWR&Log Mag&Smith(Ω) 2#



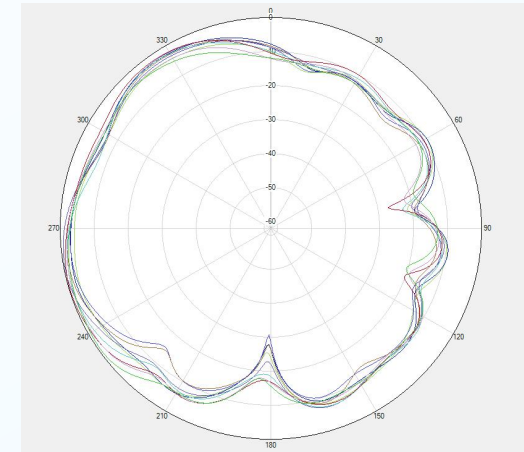
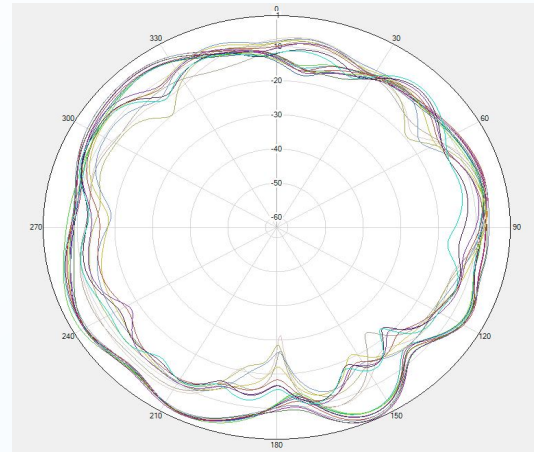
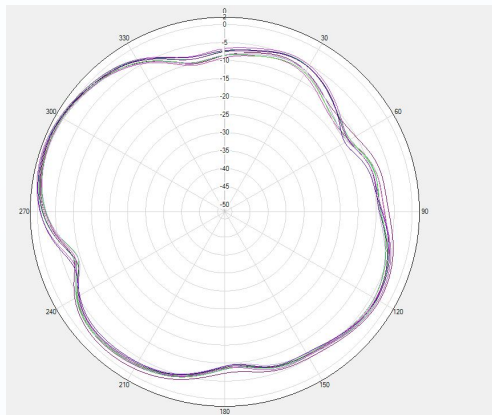
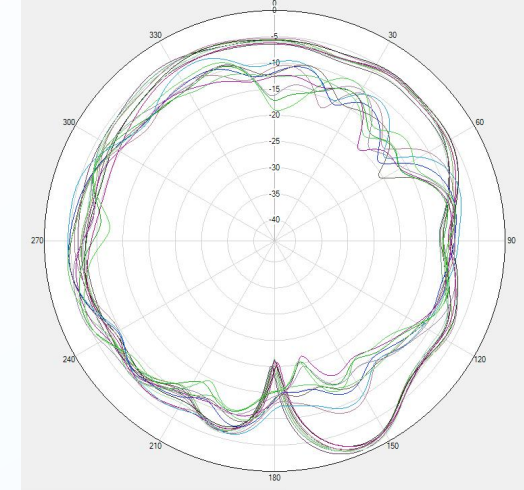
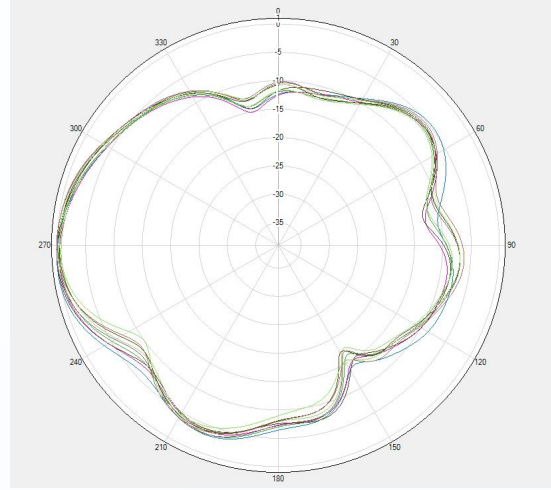
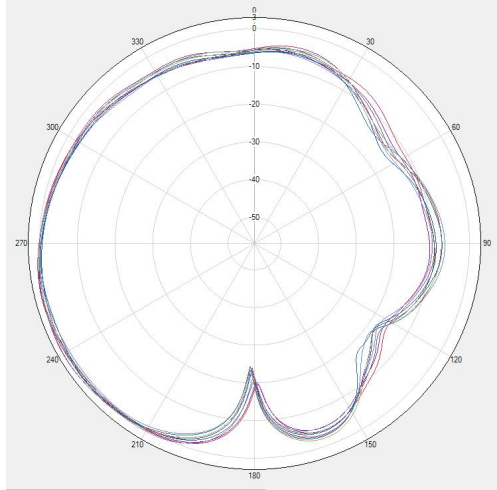
Test Result VSWR&Log Mag&Smith(Ω)

Gain & Efficiency——WFI2#

Frequency (MHz)	Max GAIN (dBi)	Efficiency (%)	Frequency (MHz)	Max GAIN (dBi)	Efficiency (%)
2400	0.79	36.31	5100	3.93	40.12
2410	1.12	37.76	5190	3.53	41.43
2420	1.29	39.17	5280	3.46	42.37
2430	1.26	40.28	5370	3.54	43.14
2440	1.35	39.87	5460	4.44	44.26
2450	1.17	38.66	5550	4.85	43.15
2460	0.97	37.65	5640	4.12	42.26
2470	0.87	36.43	5730	4.17	40.79
2480	1.34	35.79	5800	4.21	40.06

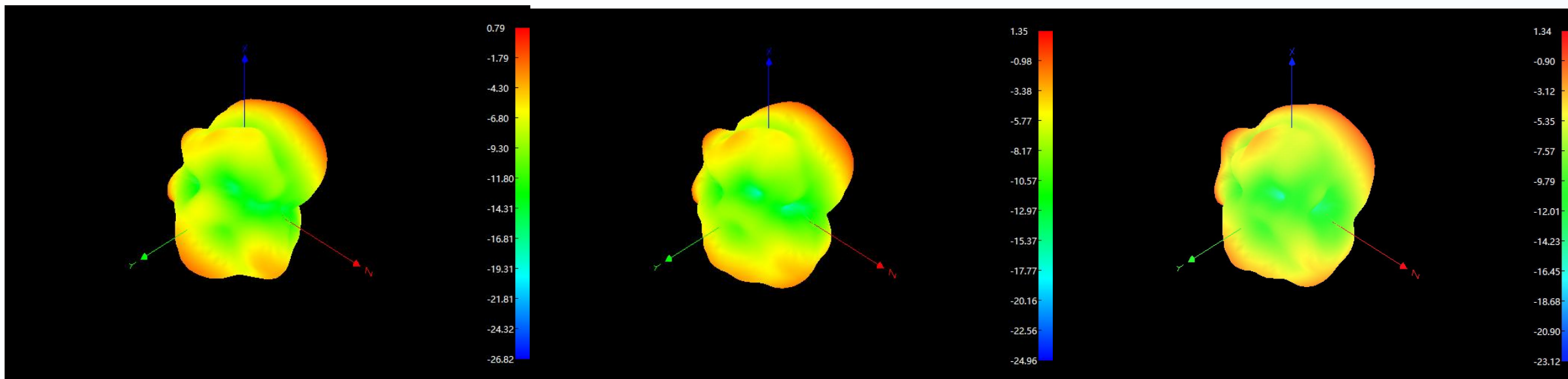
Test Result

2D Pattern——WFIANT 2#



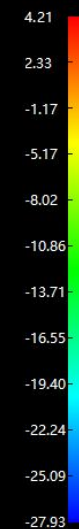
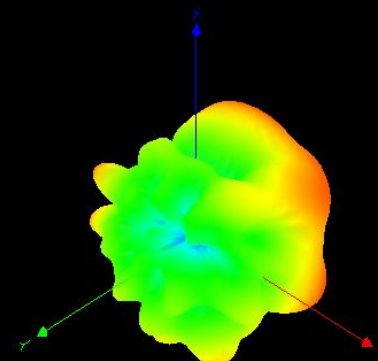
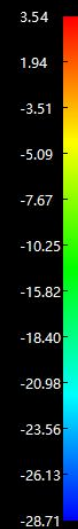
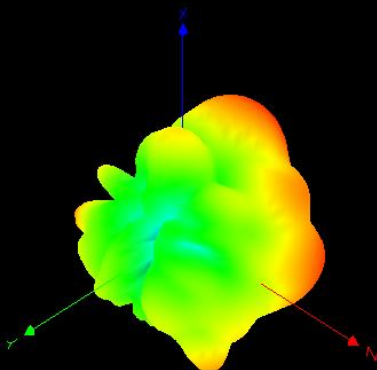
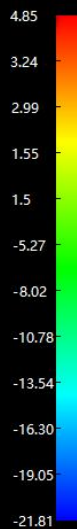
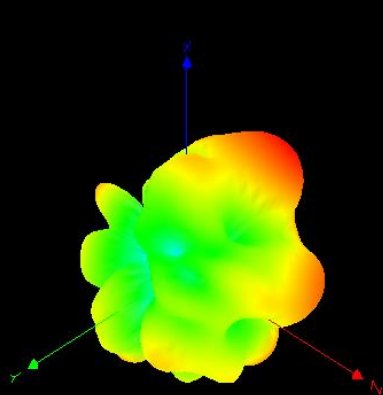
Test Result

3D Pattern——WFIANT 2#

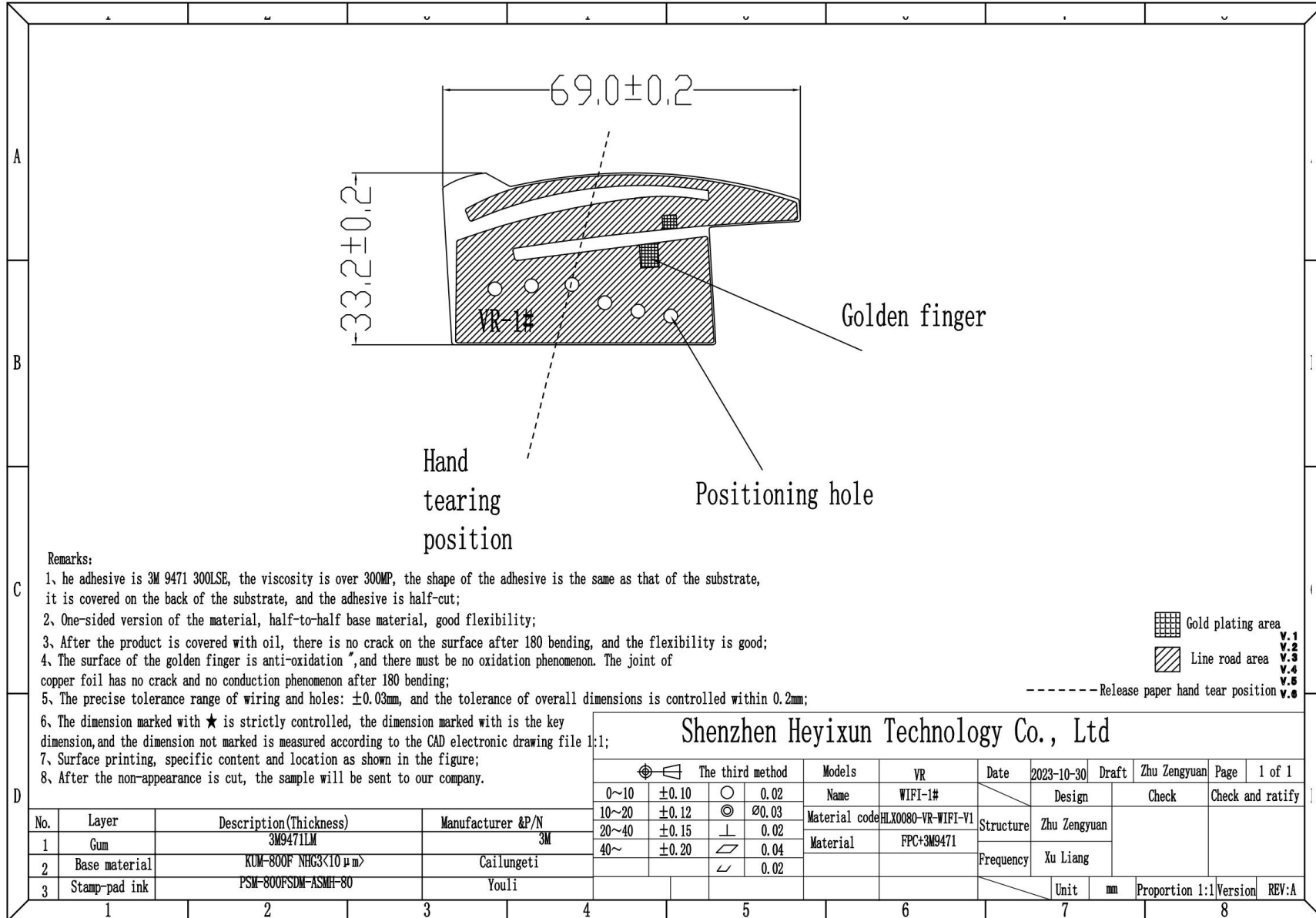


Test Result

3D Pattern—WFIANT 2#



ANT 1#



ANT 1#

A

B

C

D

The fourth generation terminals face down.

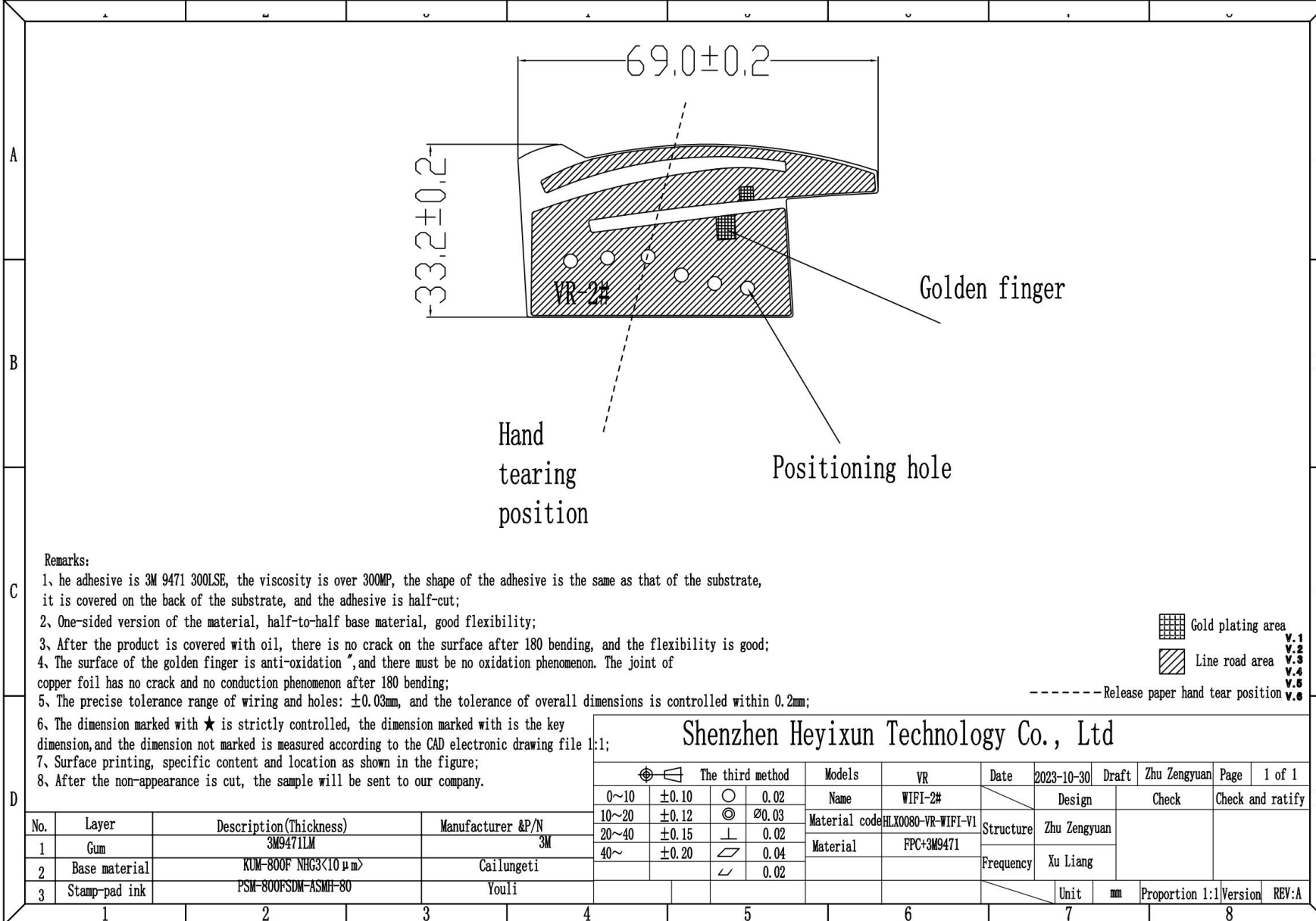
Remarks: Four-generation terminal 0.81 wire is used. Total length:85mm

Legend:
 Gold plating area
 Line road area
 Release paper hand tear position

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	⊕	The third method		Models	VR	Date	2023-10-30	Draft	Zhu Zengyuan	Page	1 of 1
	0~10	±0.10	○	0.02	Name	WIFI-1#	Design		Check	Check and ratify	
	10~20	±0.12	◎	0.03	Material code	HLX0080-VR-WIFI-V1	Structure	Zhu Zengyuan			
	20~40	±0.15	⊥	0.02	Material	FPC+3M9471	Frequency	Xu Liang			
	40~	±0.20	∠	0.02			Unit	mm	Proportion 1:1	Version	REV:A

ANT 2#



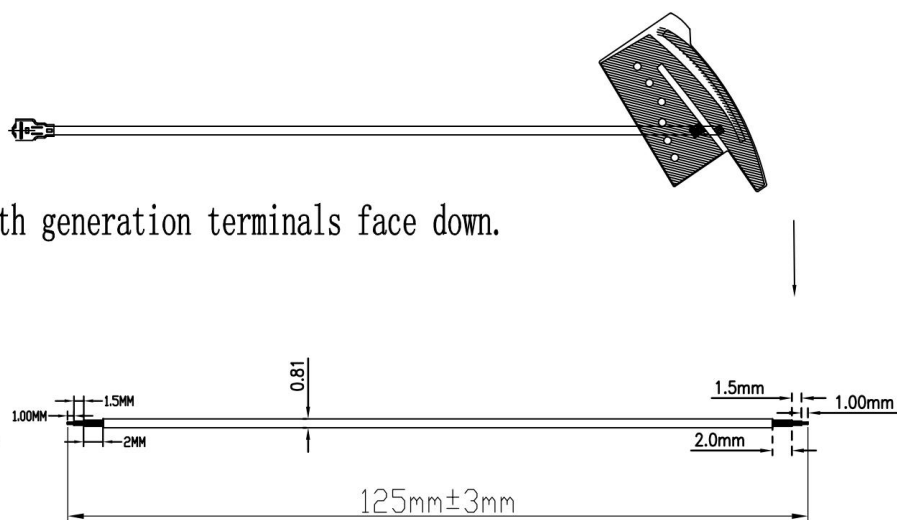
ANT 2#

A

B

C

D



The fourth generation terminals face down.

Remarks: Four-generation terminal 0.81 wire is used. Total length:125mm

-----Release paper hand tear position

一、Technical parameter

- Rated voltage: 60VAC (R. M. S)
- Frequency test range: 0~6GHz
- Characteristic impedance: 50 ± 2 ohms
- Operating temperature range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Working humidity: 95%R. H. Max.

二、Behaviour of electricity

- Insulation impedance: 500M ohms
- Contact resistance: centrePIN needle 25m ohms Max.
External iron shell 15m ohms Max.
- Voltage withstand: 200V AC 2 Min
- line loss: 900M Hz 0.5dB Max
1800M Hz 0.7dB Max
- VSWR: 0.1~3GHz 1.3 Max.
3~6GHz 1.5 Max.

三、Mechanical character

- Withdrawal force: Initial stage 4N Min. 30Huihou 2N Min.
- Pulling force: 10N Min

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	The third method		Models	VR	Date	2023-10-30	Draft	Zhu Zengyuan	Page	1 of 1	
0~10	± 0.10	○	Name	WIFI-2#	Design	Check	Check and ratify				
10~20	± 0.12	◎	Material code	HLX0080-VR-WIFI-V1	Structure	Zhu Zengyuan					
20~40	± 0.15	⊥	Material	FPC+3M9471	Frequency	Xu Liang					
40~	± 0.20	∕					Unit	mm	Proportion 1:1	Version	REV:A

No.	Layer	Description(Thickness)	Manufacturer &P/N
1	Gum	Description(Thickness)	Manufacturer &P/N
2	Base material	0.81	Tianmai
3	Stamp-pad ink	1st generation	Zep

1	2	3	4	5	6	7	8
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Gold plating area **v.1**
 Line road area **v.2**
 v.3
 v.4
 v.5
 v.6

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WORK REPORT

Thank you for watching