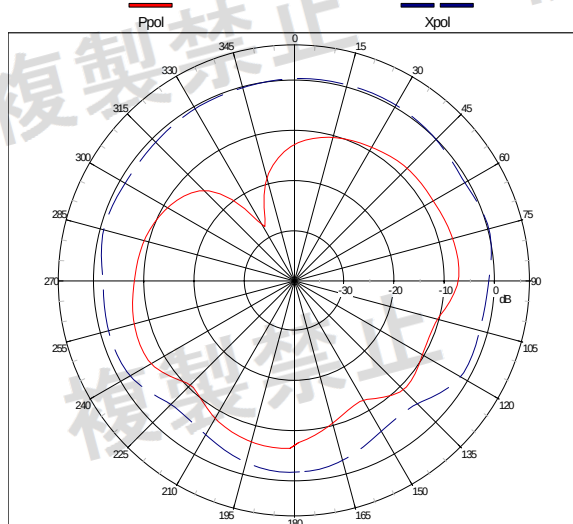
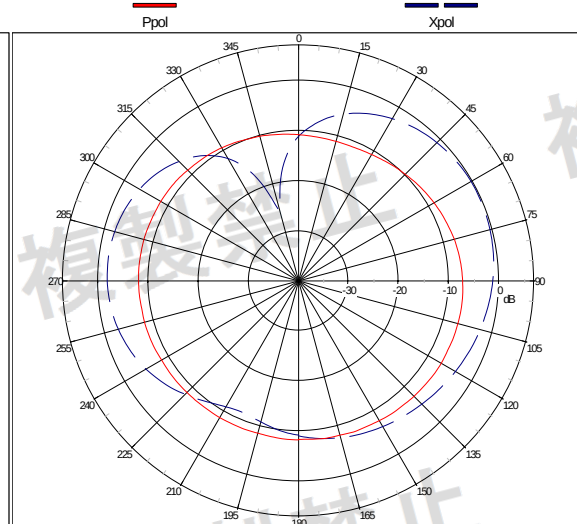


Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg/(Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.6 dB; Plot PeakGain(V-Pol): 0.5dB @ Freq: 0.90200 GHz

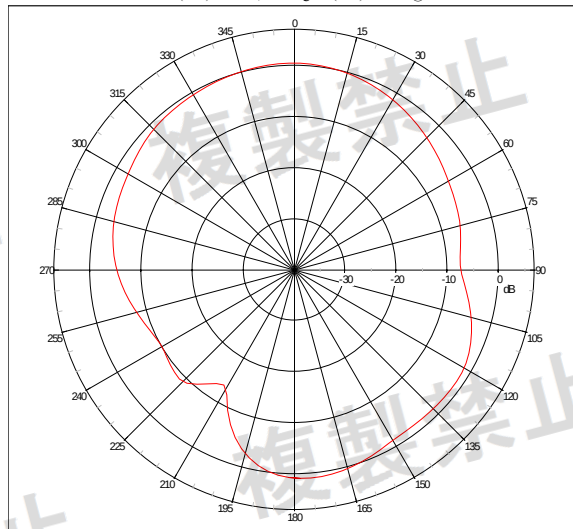


Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg/(X-Y Plane-Cut)
Plot PeakGain(H-Pol): -7.2 dB; Plot PeakGain(V-Pol): -0.4dB @ Freq: 0.90200 GHz



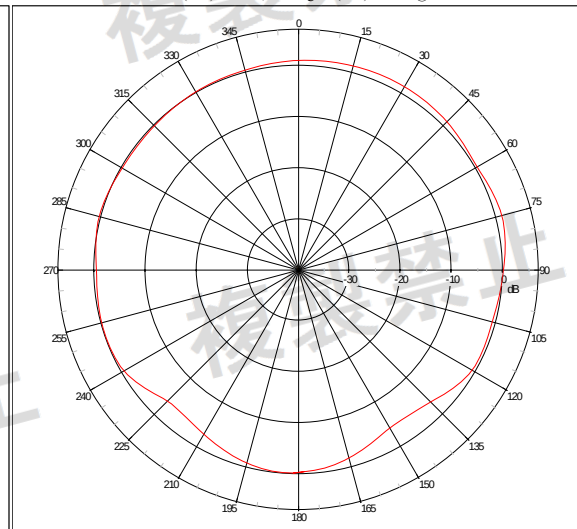
Far-field Power Distribution(H+V) on X-Z Plane

Plot PeakGain(H+V)= 0.7 dB; Plot AvgGain(H+V)= 0.0dB @0.91000 GHz



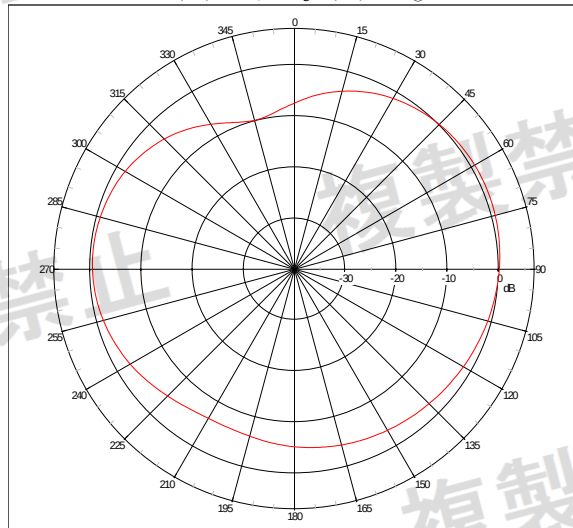
Far-field Power Distribution(H+V) on Y-Z Plane

Plot PeakGain(H+V)= 1.3 dB; Plot AvgGain(H+V)= 0.0dB @0.91000 GHz



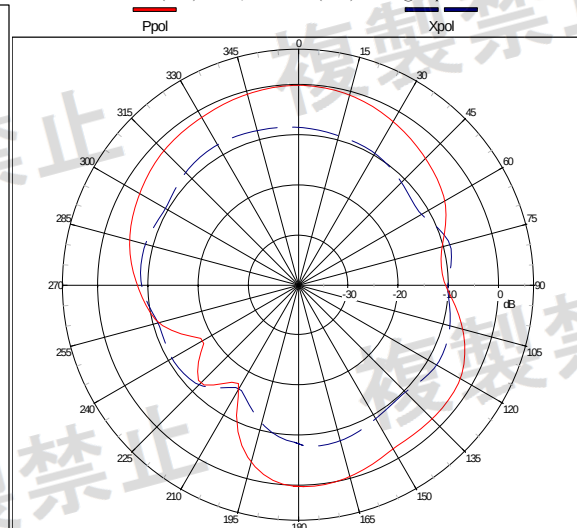
Far-field Power Distribution(H+V) on X-Y Plane

Plot PeakGain(H+V)= 0.7 dB; Plot AvgGain(H+V)= 0.0dB @0.91000 GHz

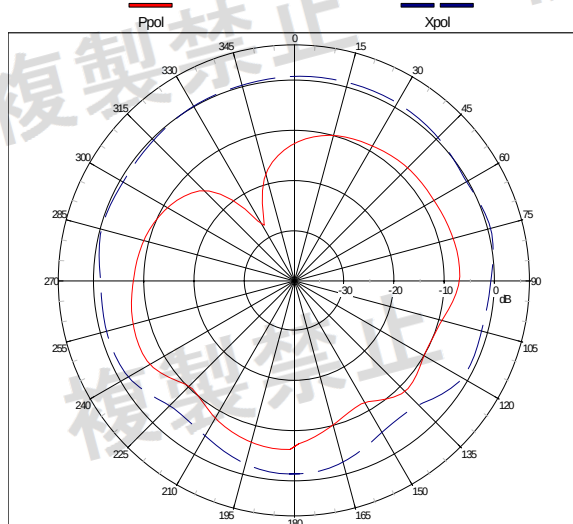


Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg/(X-Z Plane-Cut)

Plot PeakGain(H-Pol): 0.1 dB; Plot PeakGain(V-Pol): -7.7dB @ Freq: 0.91000 GHz



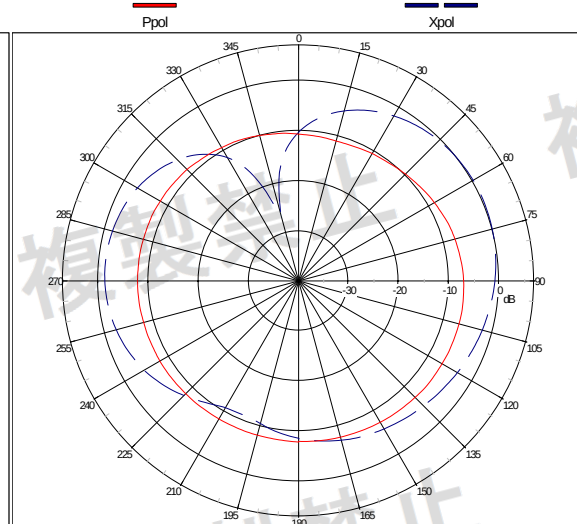
Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.4 dB; Plot PeakGain(V-Pol): 0.9 dB @ Freq: 0.91000 GHz



Far-field Power Distribution(H+V) on X-Z Plane

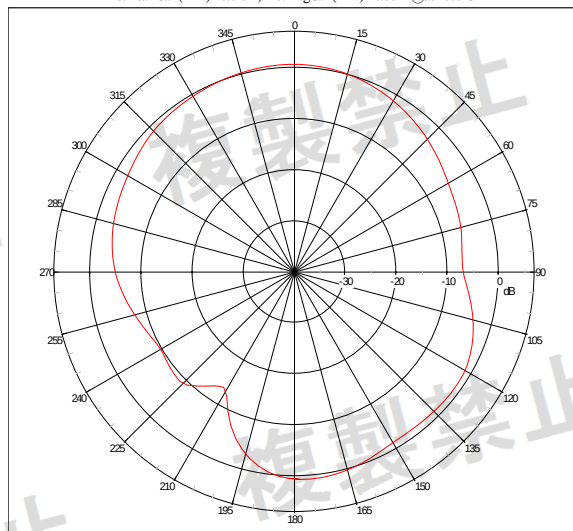
Plot PeakGain(H+V)= 0.6 dB; Plot AvgGain(H+V)= 0.0dB @0.92000 GHz

Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)
Plot PeakGain(H-Pol): -6.9 dB; Plot PeakGain(V-Pol): 0.1 dB @ Freq: 0.91000 GHz



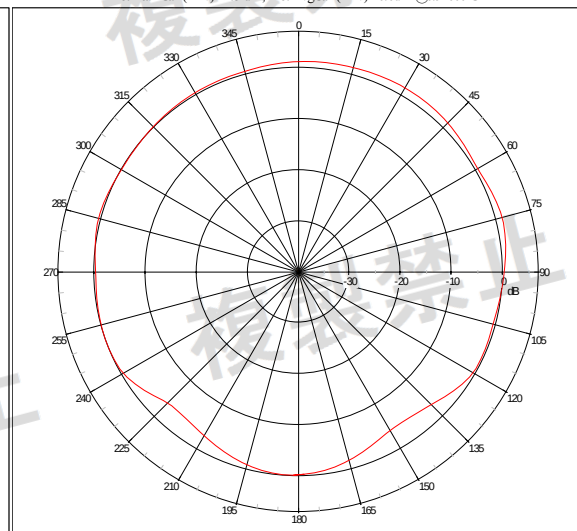
Far-field Power Distribution(H+V) on Y-Z Plane

Plot PeakGain(H+V)= 1.5 dB; Plot AvgGain(H+V)= 0.0dB @0.92000 GHz



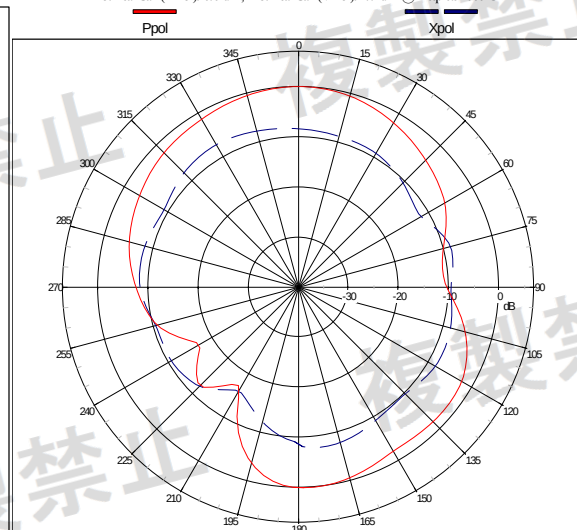
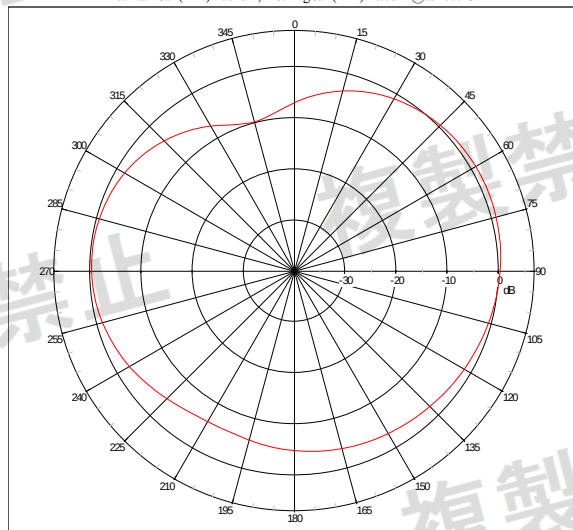
Far-field Power Distribution(H+V) on X-Y Plane

Plot PeakGain(H+V)= 0.9 dB; Plot AvgGain(H+V)= 0.0dB @0.92000 GHz

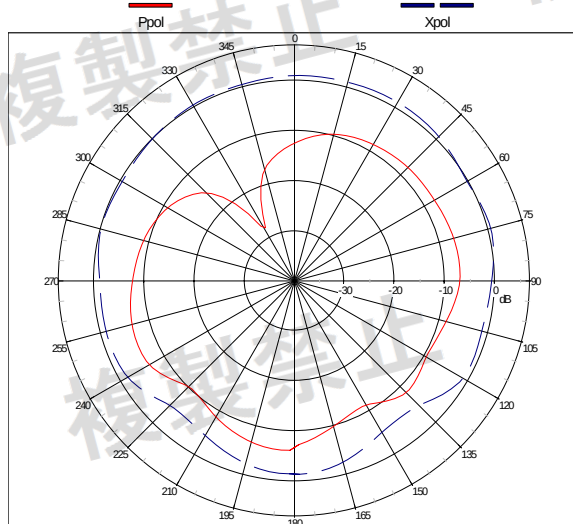


Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): 0.0 dB; Plot PeakGain(V-Pol): -7.2dB @ Freq: 0.92000 GHz



Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.2 dB; Plot PeakGain(V-Pol): 1.1 dB @ Freq: 0.92000 GHz

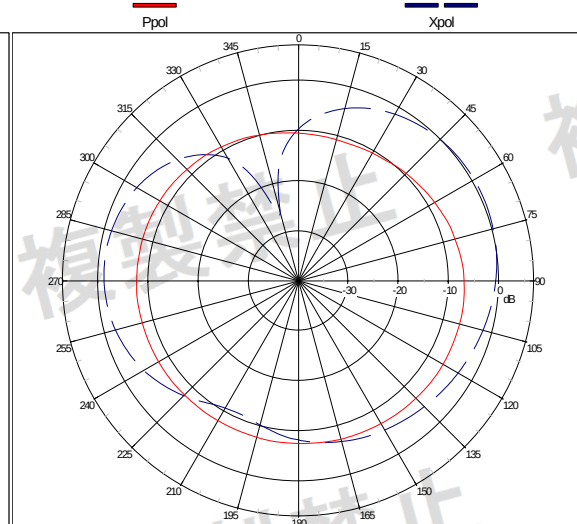


Far-field Power Distribution(H+V) on X-Z Plane

Plot Peak Gain(H+V)= 0.5 dB; Plot AvgGain(H+V)= 0.0dB @0.92800 GHz

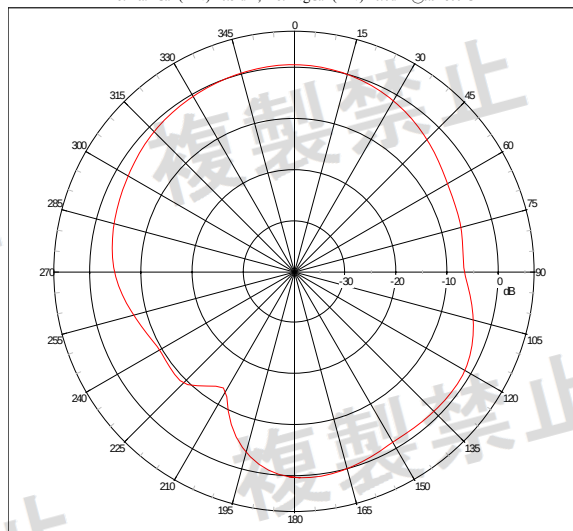
Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)

Plot PeakGain(H-Pol): -6.8 dB; Plot PeakGain(V-Pol): 0.4dB @ Freq: 0.92000 GHz



Far-field Power Distribution(H+V) on Y-Z Plane

Plot Peak Gain(H+V)= 1.5 dB; Plot AvgGain(H+V)= 0.0dB @0.92800 GHz

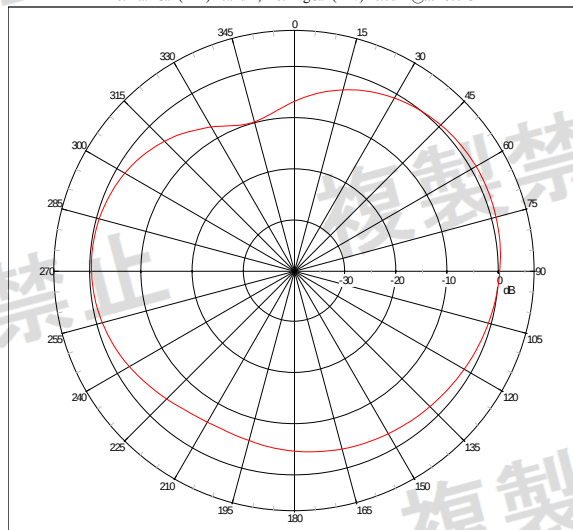
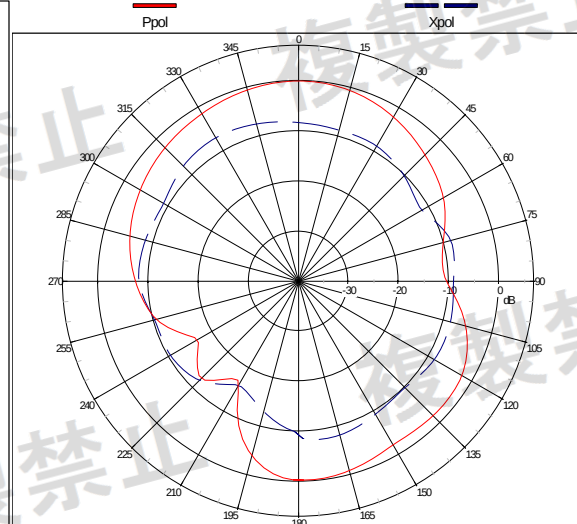


Far-field Power Distribution(H+V) on X-Y Plane

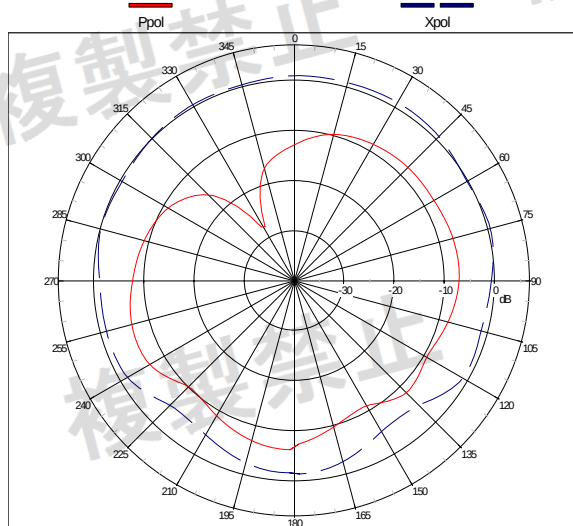
Plot Peak Gain(H+V)= 0.9 dB; Plot AvgGain(H+V)= 0.0dB @0.92800 GHz

Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): -0.1 dB; Plot PeakGain(V-Pol): -7.0dB @ Freq: 0.92800 GHz



Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.3 dB; Plot PeakGain(V-Pol): 1.0dBi @ Freq: 0.92800 GHz

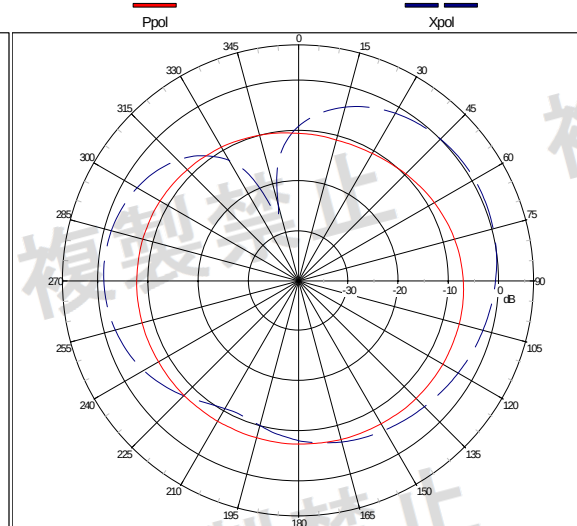


Far-field Power Distribution(H+V) on X-Z Plane

Plot Peak Gain(H+V)= 0.7 dBi; Plot AvgGain(H+V)= 0.0dBi @0.93000 GHz

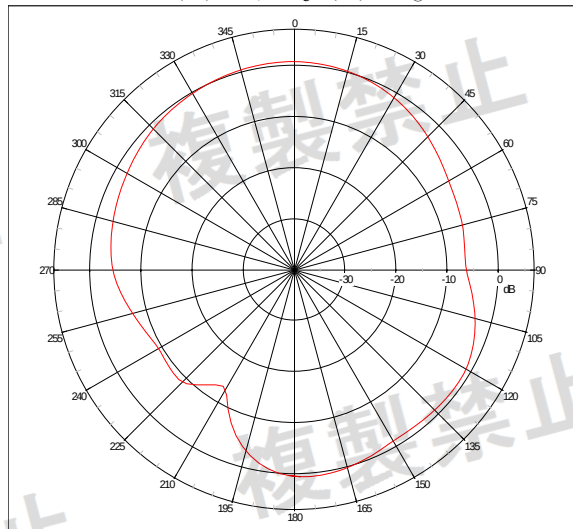
Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)

Plot PeakGain(H-Pol): -6.8 dB; Plot PeakGain(V-Pol): 0.4dBi @ Freq: 0.92800 GHz



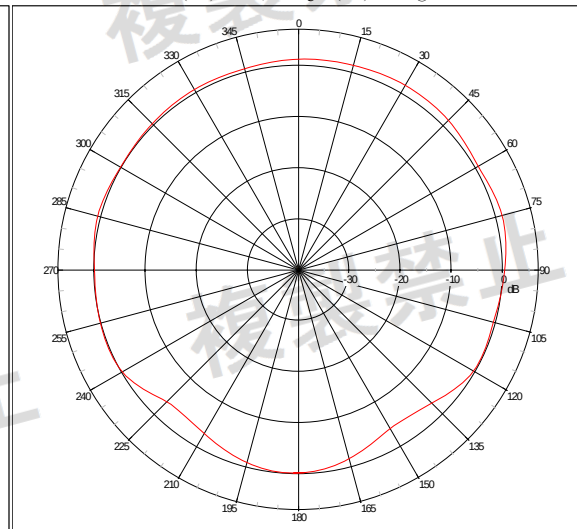
Far-field Power Distribution(H+V) on Y-Z Plane

Plot Peak Gain(H+V)= 1.6 dBi; Plot AvgGain(H+V)= 0.0dBi @0.93000 GHz



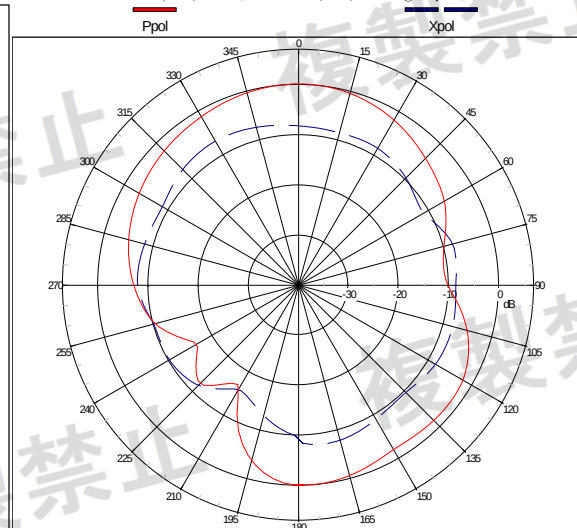
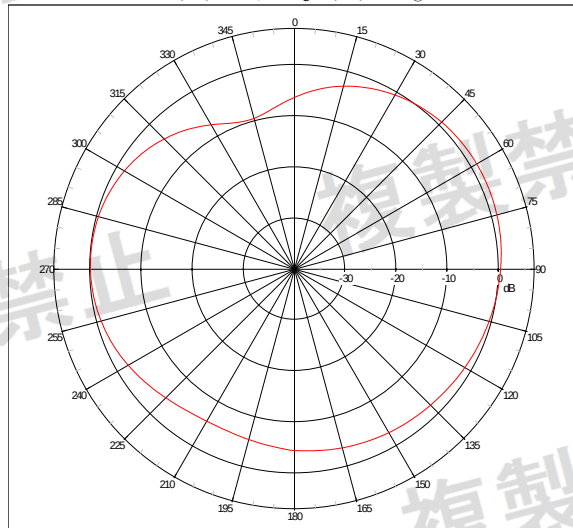
Far-field Power Distribution(H+V) on X-Y Plane

Plot Peak Gain(H+V)= 1.1 dBi; Plot AvgGain(H+V)= 0.0dBi @0.93000 GHz



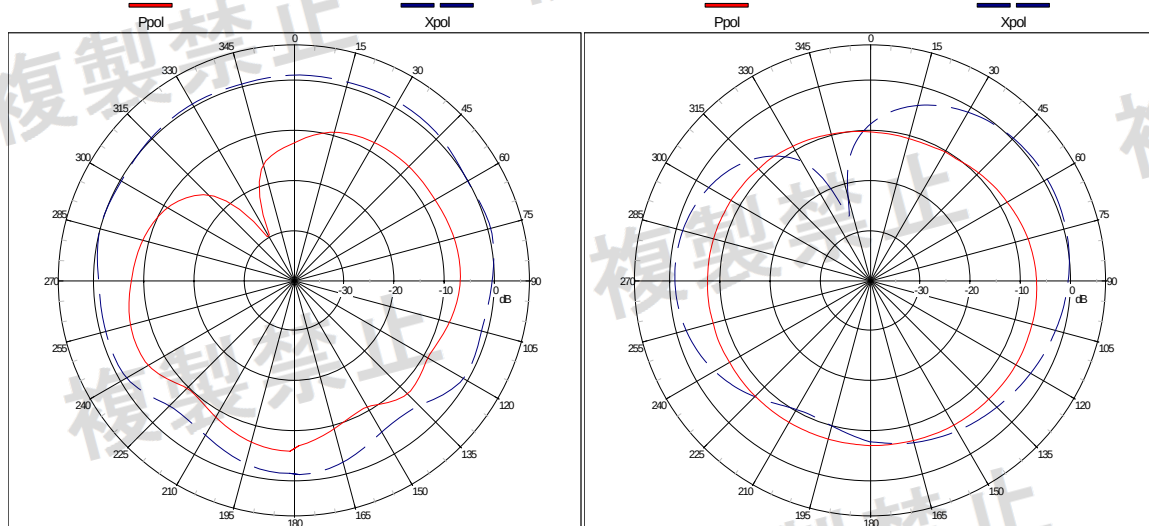
Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): 0.1 dBi; Plot PeakGain(V-Pol): -6.9dBi @ Freq: 0.93000 GHz



Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg/(Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.0 dB; Plot PeakGain(V-Pol): 1.2dBi @ Freq: 0.93000 GHz

Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg/(X-Y Plane-Cut)
Plot PeakGain(H-Pol): -6.6 dB; Plot PeakGain(V-Pol): 0.6dBi @ Freq: 0.93000 GHz



2.Test Value

Frequency(MHz)	X-Z plane(Phi=0)	Y-Z plane(Phi=90)	X-Y plane(Theta=90)	Gain-3D (H+V) dBi	Efficiency (%)
	Peak Gain (H+V)	Peak Gain (H+V)	Peak Gain (H+V)		
900	0.8	1	0.4	1.3	62
902	0.8	0.9	0.2	1.2	61
910	0.7	1.3	0.7	1.5	66
920	0.6	1.5	0.9	1.5	68
928	0.5	1.5	0.9	1.5	68
930	0.7	1.6	1.1	1.6	71



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SUZHOU AEON TECH CO.,LTD.(CHINA)
AEON TECH (SHANGHAI) CO.,LTD(CHINA)
DONGGUAN PARNER TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 鴻海科技股份有限公司

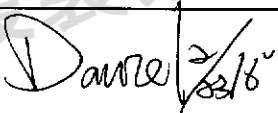
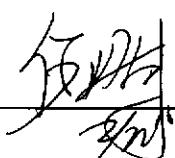
PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C107-511326-A(SRF2016196)

REV.: XI

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

譚裕實業股份有限公司

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AEON TECH (SHANGHAI) CO., LTD(CHINA)

普翔電子貿易(上海)有限公司

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Tel: +86-21-64959151

Fax: +86-21-64959059

DONGGUAN PARNER TECH CO., LTD.(CHINA)

東莞倍能電子有限公司

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Dong Guan City, Guangdong, China

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Fax: +86-769-81602681

Contents

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2.	成品圖	2
3.	測試報告	3~15

RF Antenna Assembly

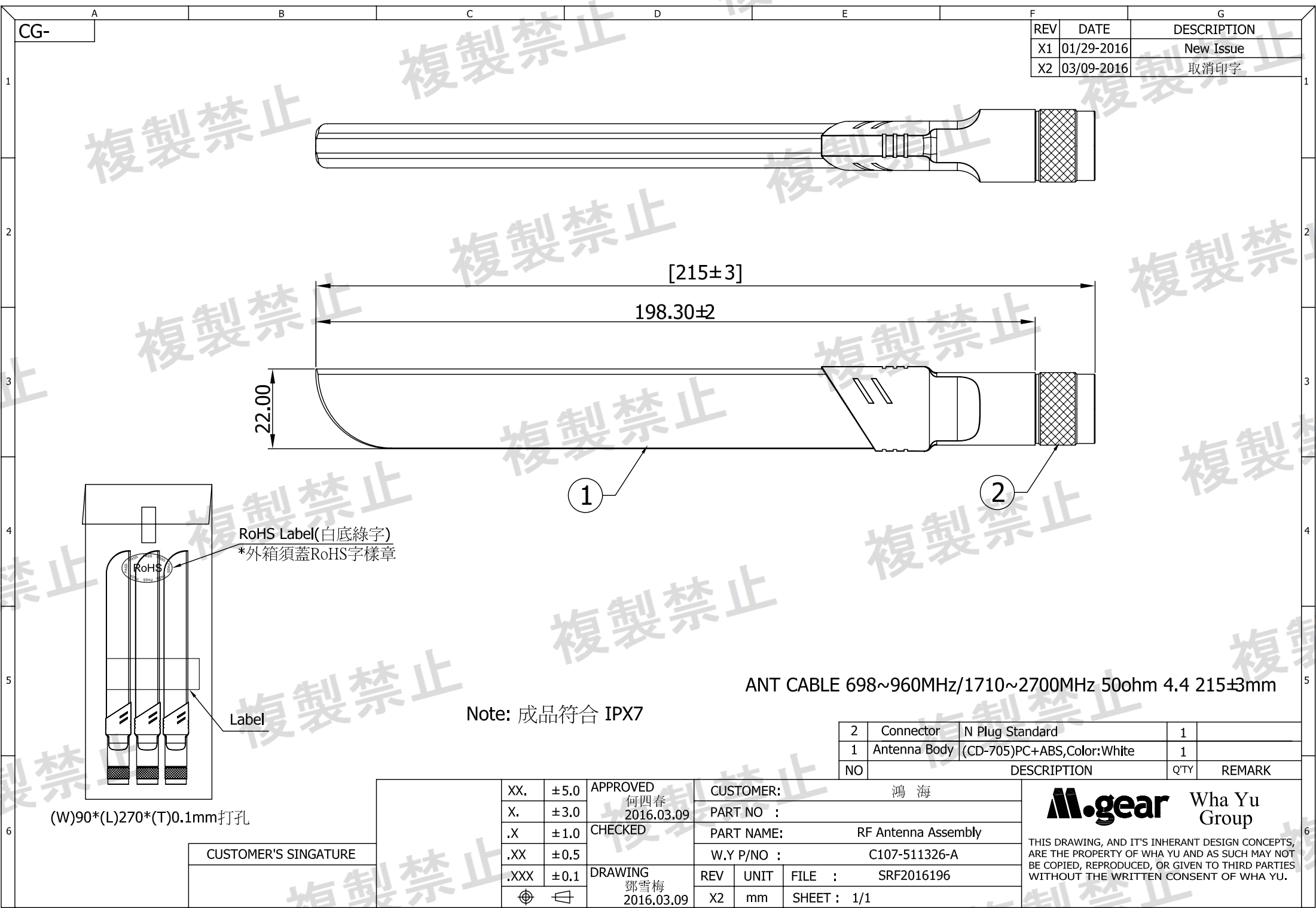
Specification

1. Electrical Properties (With Housing)

- 1.1 Frequency Range.....698~960MHz /1710~2700MHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR<3.5
- 1.4 Return Loss.....-5.11 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Average Gain..... 0~1dBi
- 1.7 Polarization.....Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable.....RG-178 Coaxial Cable
- 1.10 Connector.....N Plug Standard

2. Physical Properties :

- 2.1 Antenna Body.....PC+ABS
- 2.2 Operating Temp.-10°C ~ +60°C
- 2.3 Storage Temp.-10°C ~ +70°C
- 2.4 Color White



CG-

REV	DATE	DESCRIPTION
X1	01/29-2016	New Issue
X2	03/09-2016	取消印字

RoHS Label(白底綠字)
*外箱須蓋RoHS字樣章

Label

(W)90*(L)270*(T)0.1mm打孔

ANT CABLE 698~960MHz/1710~2700MHz 50ohm 4.4 215±3mm

Note: 成品符合 IPX7

2	Connector	N Plug Standard	1	
1	Antenna Body	(CD-705)PC+ABS,Color:White	1	
NO	DESCRIPTION		Q'TY	REMARK

CUSTOMER'S SINGATURE

XX.	±5.0	APPROVED 何四春 2016.03.09
X.	±3.0	
.X	±1.0	CHECKED
.XX	±0.5	
.XXX	±0.1	DRAWING 鄧雪梅 2016.03.09
⊕	⊖	

CUSTOMER: 鴻海		
PART NO :		
PART NAME: RF Antenna Assembly		
W.Y P/NO : C107-511326-A		
REV	UNIT	FILE : SRF2016196
X2	mm	SHEET : 1/1

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Antenna Test Report

V1.00

Document Number	
1 st Released Date	2015/10/02
Last Released Date	2015/10/02
Author	JH
Review by	Sean

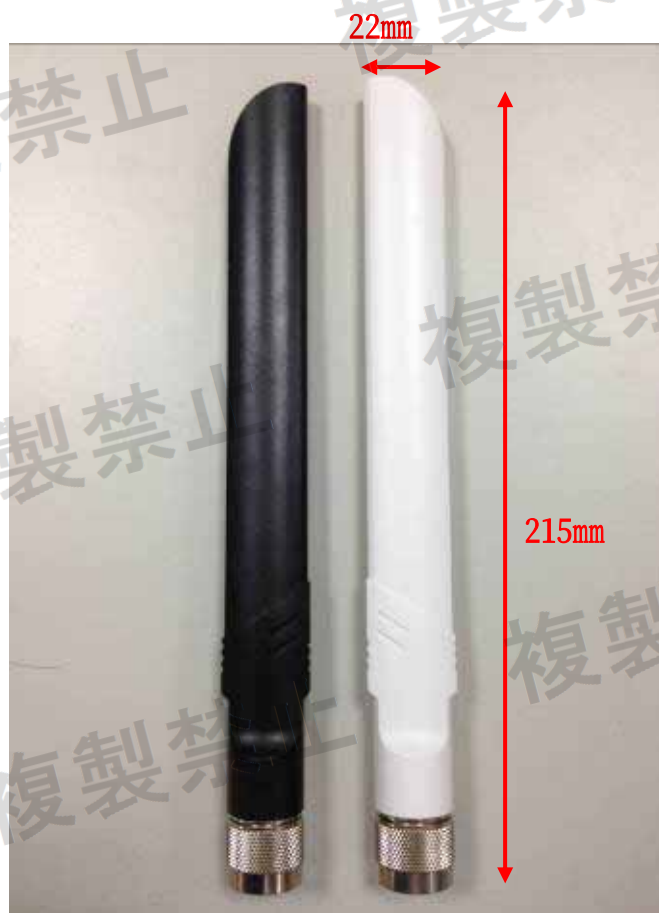
Revised History

[illegible]

Electrical Specification

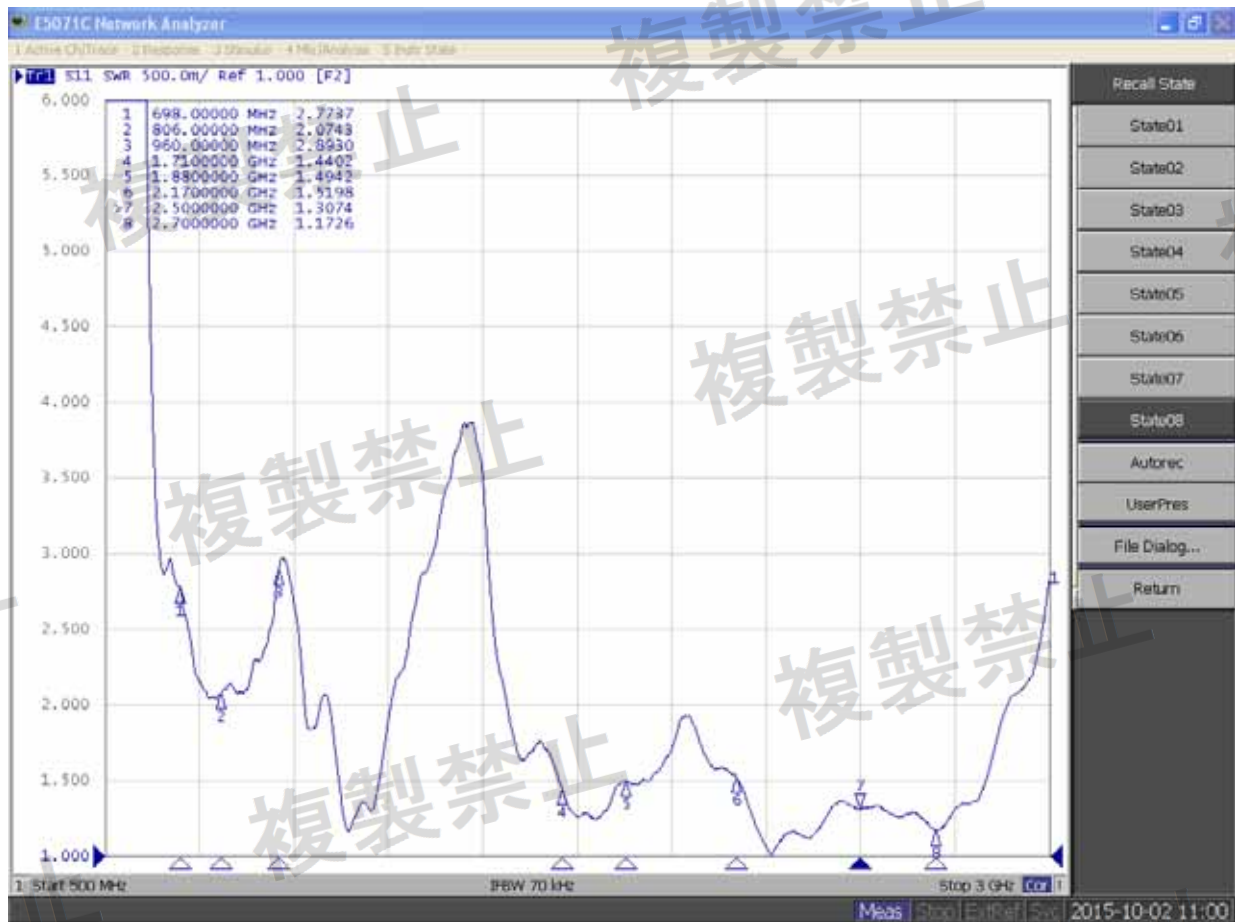
Rough description	None	
Item	Initial Specification	
Dimensions	(L)215*(W)22*(T)11mm	
Impedance	50 Ω	
Test environment	None	
Spectrum	None	
Freq. Range	698~960MHz 1710~2700MHz	
Antenna type	PCB type	
Average Gain	0~1dBi	
VSWR	<3.5	
Radiation	Omni	
Polarization	Vertical Linear	
HPBW / H	None	
HPBW / E	None	
Rad. efficiency	None	
Connector type	N-type	
Cable type	None	
Cable length	None	
Isolation	None	

1. Antennas' setup and environment



2. Network Analyzer Measurement

2.1 S11 Test Results

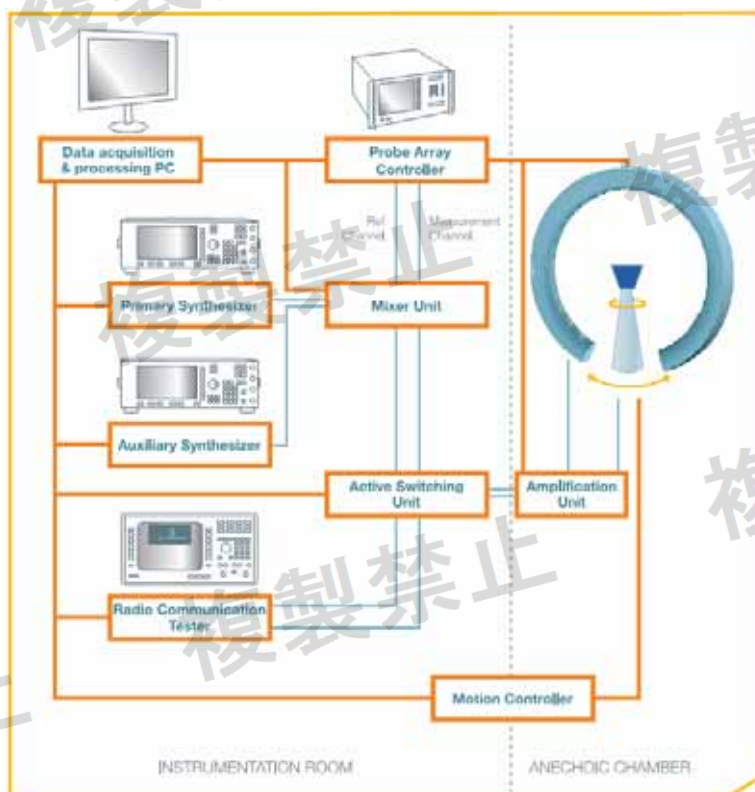


3.1 Lab information

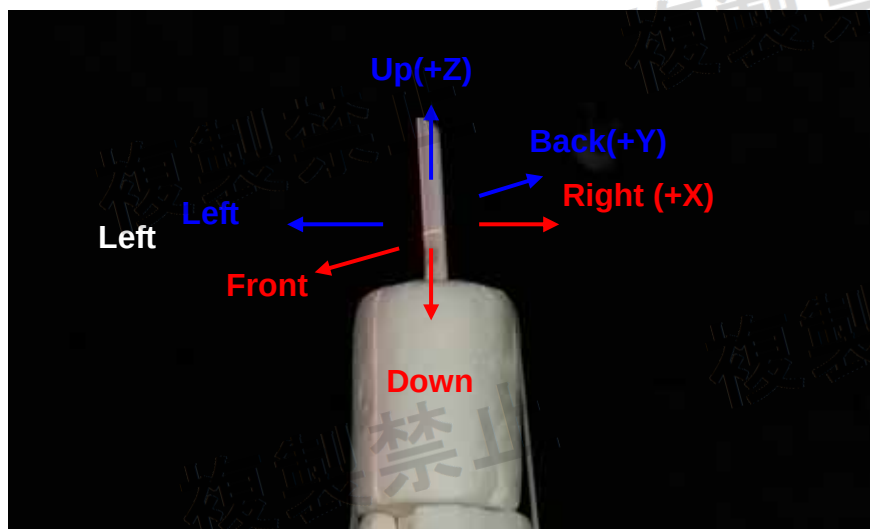
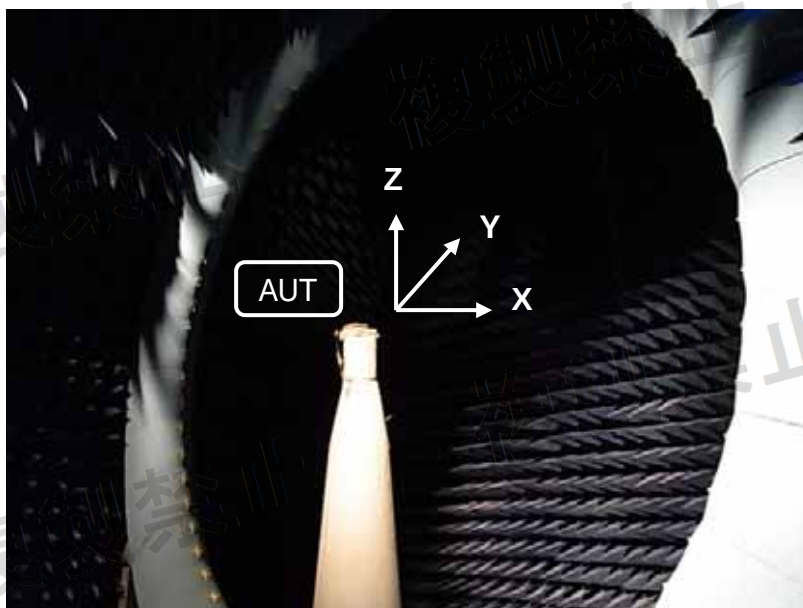
- Lab name : Satimo
- Address : No.326 Sec.2, Kung Tao 5 Road, HsinChu City, Taiwan
- Certification : none (Satimo system certification: CTIA, 3GPP, Wi-Fi alliance and WiMAX Forum)
- Size (LxWxH) : 5m x 5m x 5m
- Isolation level : >100dB
- Normal applications : antenna radiation pattern measurement, OTA performance testing.
- Frequency measurement range : 0.4 to 6 GHz
- EUT scanning method : conical cut method
- Measurement distance : 1.6m
- Measurement antenna specification (for θ and Φ polarization each) : dual polarization antenna for 0.4 to 6.0 GHz frequency range



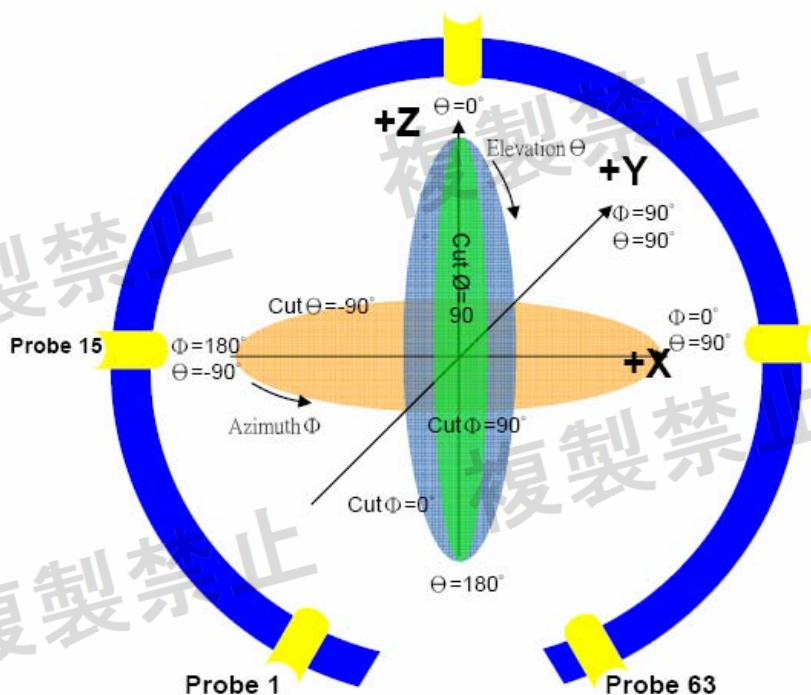
- Equipment list :



3.2 Measurement setting

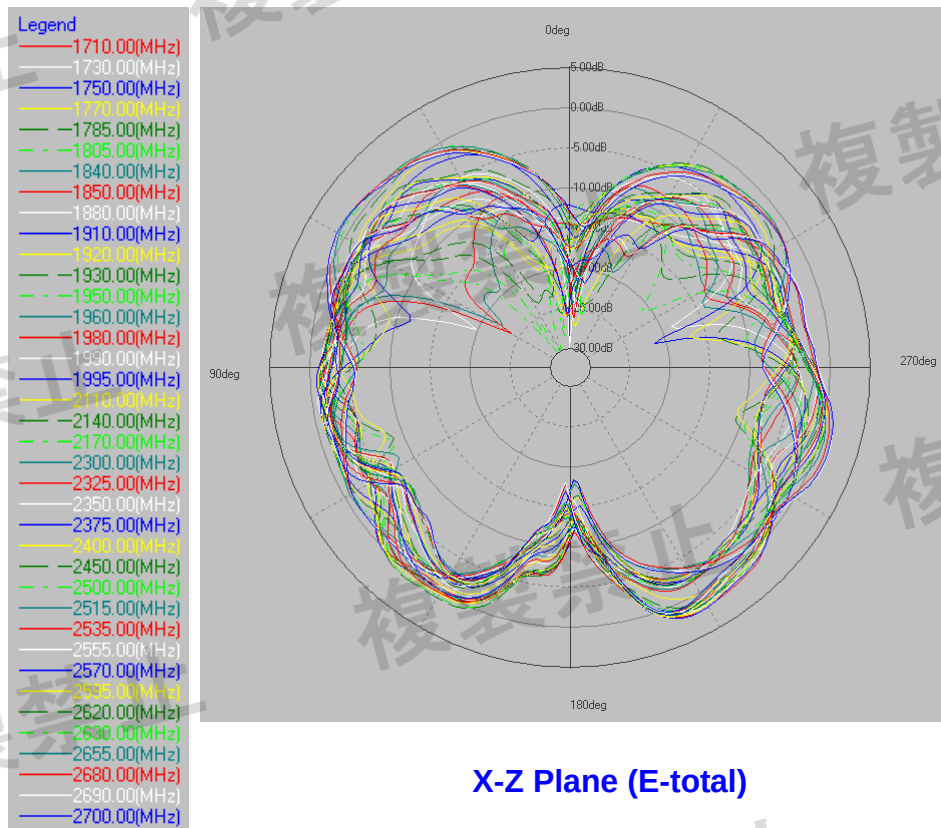
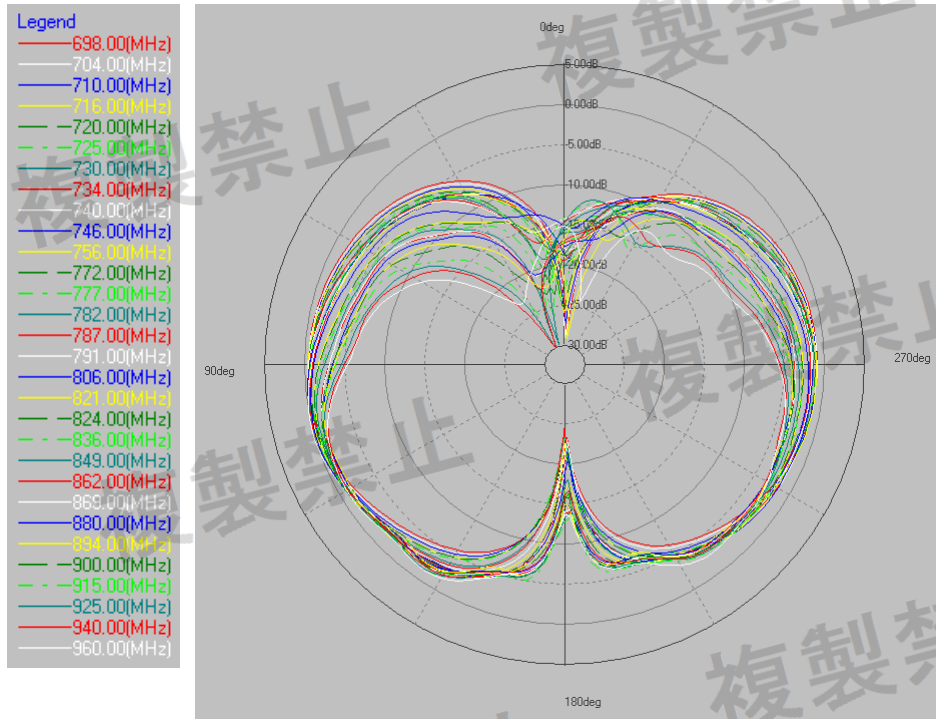


	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

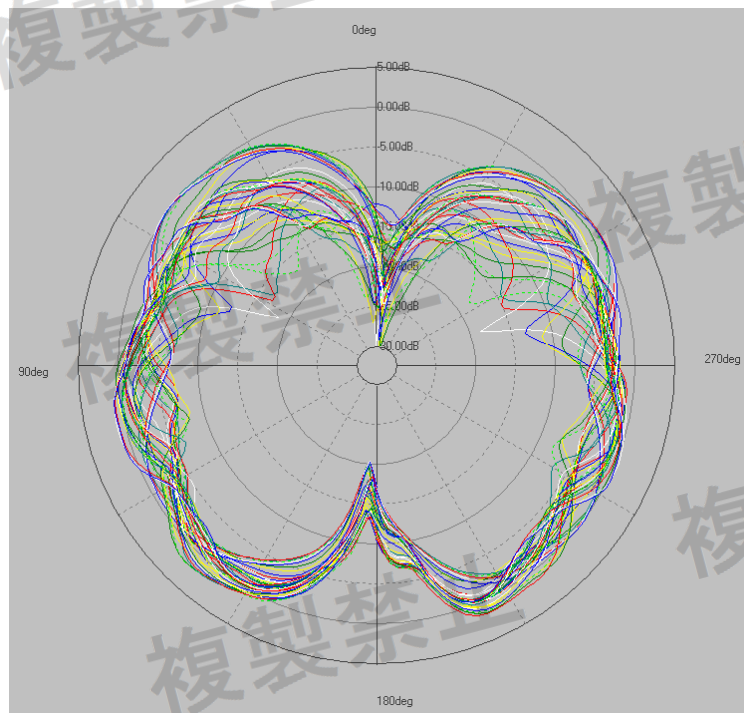
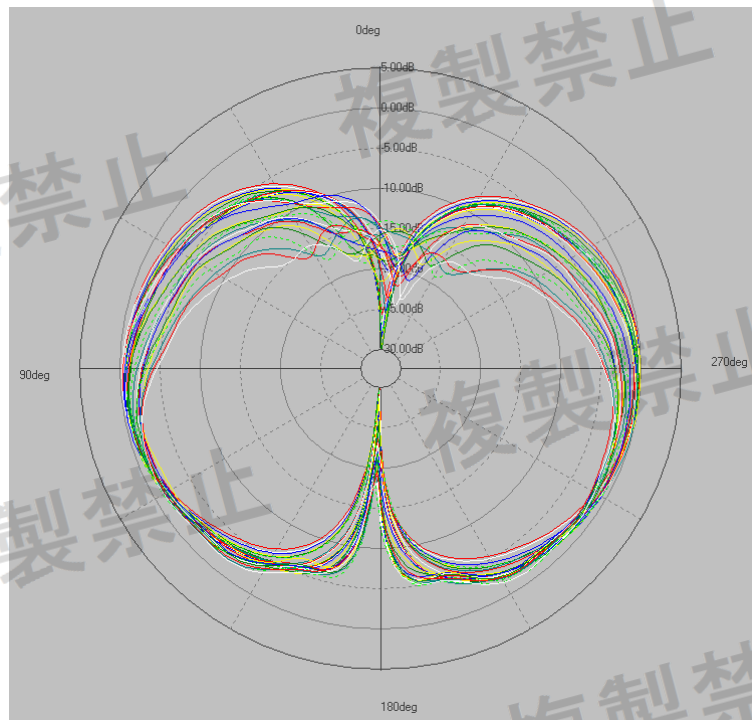
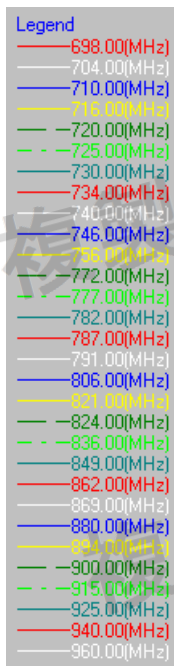


	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

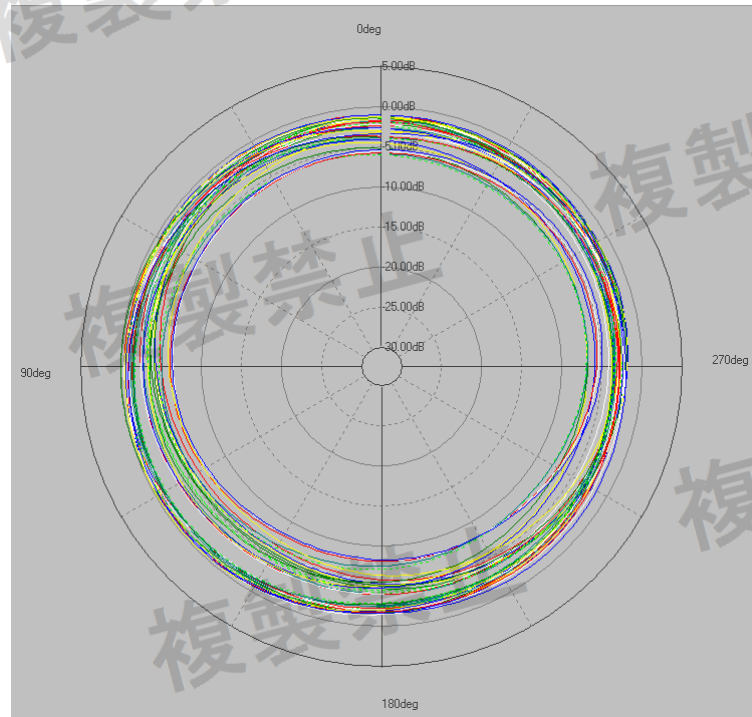
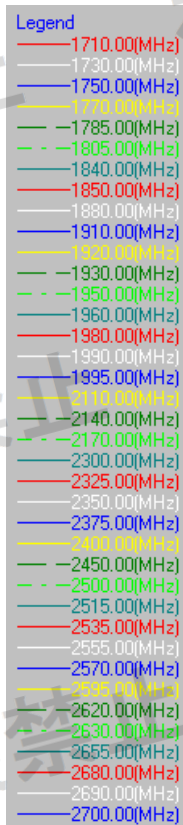
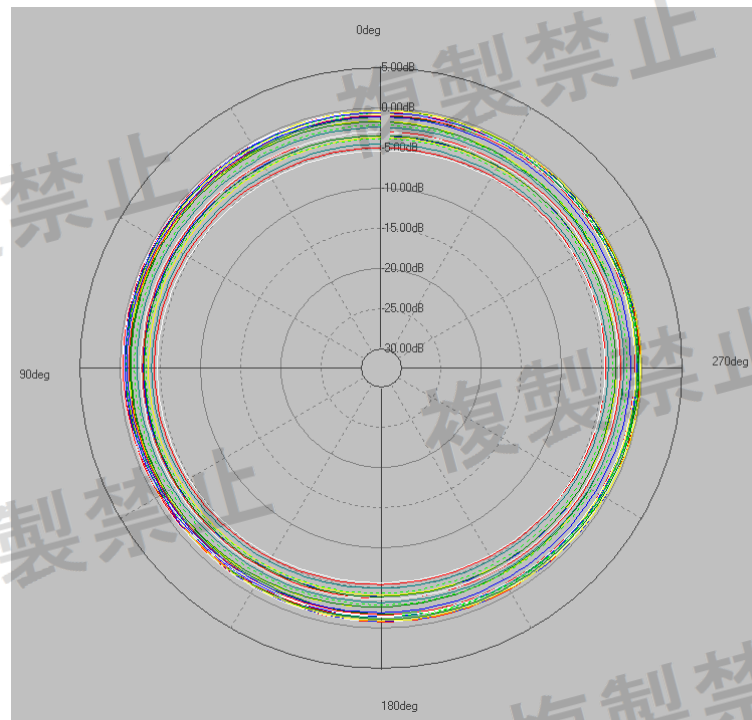
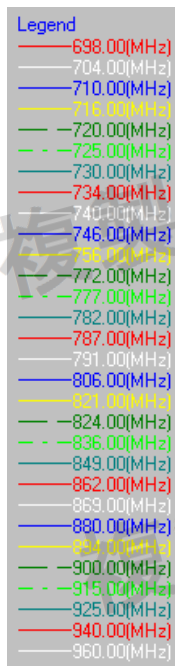
3.3 2D Patterns



X-Z Plane (E-total)



Y-Z Plane (E-total)



X-Y Plane (E-total)

4. Summary

4.1 3D test data

Frequency(MHz)	Peak Gain(dBi)	Efficiency
698	-0.20	58%
704	-0.13	58%
710	-0.09	58%
716	-0.02	59%
720	-0.20	57%
725	-0.31	55%
730	-0.23	55%
734	-0.17	55%
740	-0.19	56%
746	-0.10	55%
756	-0.20	54%
772	-0.15	53%
777	0.09	56%
782	0.07	55%
787	0.00	53%
791	0.14	55%
806	-0.10	51%
821	-0.40	46%
824	-0.40	46%
836	-0.47	46%
849	-0.73	42%
862	-1.33	38%
869	-1.21	39%
880	-1.46	36%
894	-1.26	35%
900	-1.10	37%
915	-0.79	37%
925	-0.83	34%
940	-1.10	32%
960	-1.03	33%

Frequency(MHz)	Peak Gain(dBi)	Efficiency
1710	0.04	40%
1730	0.34	40%
1750	0.25	39%
1785	0.34	37%
1805	0.15	34%
1840	-0.15	32%
1850	-0.05	33%
1880	-0.77	34%
1910	-0.56	43%
1920	-0.44	47%
1930	-0.05	51%
1950	0.62	55%
1960	0.91	58%
1980	1.09	58%
1990	1.06	58%
2110	0.94	41%
2140	1.93	42%
2170	2.03	40%
2300	2.44	43%
2325	2.26	51%
2350	1.86	49%
2375	2.23	56%
2400	1.89	55%
2450	1.59	57%
2500	1.40	53%
2535	1.48	53%
2555	1.34	54%
2570	1.63	54%
2595	1.99	54%
2620	1.21	50%
2655	0.90	50%
2680	1.64	57%
2700	1.82	60%



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SUZHOU AEON TECH CO.,LTD.(CHINA)
AEON TECH (SHANGHAI) CO.,LTD(CHINA)
DONGGUAN PARNER TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 鴻海科技股份有限公司

PART NAME: Outdoor Omni Antenna

PART NO.:

REVISION:

W. Y. P/NO.: C107-511380-A(SRF20161358)

REV.: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

華裕實業股份有限公司

Address: No. 326, Sec. 2, Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

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東莞倍能電子有限公司

Address: Hupan Industrial District, Shida Road, Tai Ling Shan Town,

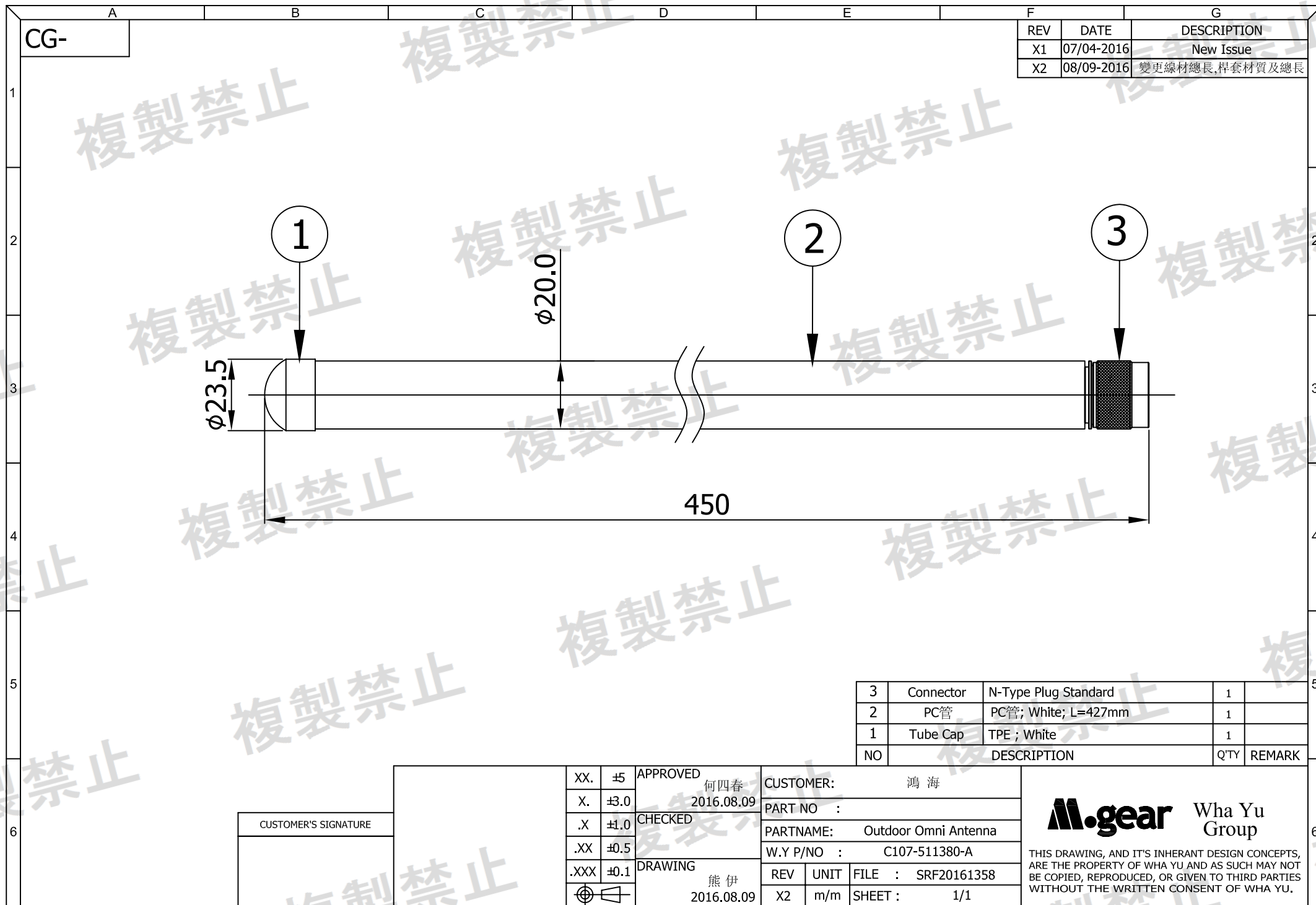
Dong Guan City, Guangdong, China

Tel: +86-769-81662366 Fax: +86-769-81602681

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Specification	
Electrical	
Test Environment	N/A
Frequency Range	902~928MHz
VSWR	<2 (max)
Input Impedance	50 ohm
Isolation	N/A
Polarization	Vertical
Gain(Peak gain)	2.8dBi
Efficiency	>50%
Half Power Beam Width (HPBW)	45±5deg @ Vertical Cut 360 deg @ Horizontal Cut
Mechanical	
Dimensions	(φ)20(23.5)*(L)450mm
Connector	N-type
Cable Type	N/A
Cable length	N/A
Radome Material	PC
Ingress Protection	N/A
Operating Temperature	-20°C ~70°C
Storage Temperature	-20°C ~70°C



Antenna Test Report

(902~928MHz Omni)

V3.00

Product Development Status		
Concept Study	In Development	Production
	X	

Document Number	NE3-16053
1 st Released Date	2016/5/25
Last Released Date	2016/8/05
Designers	JH
Testers	JH
Review by	Sean

Revised History

[illegible]

Specification

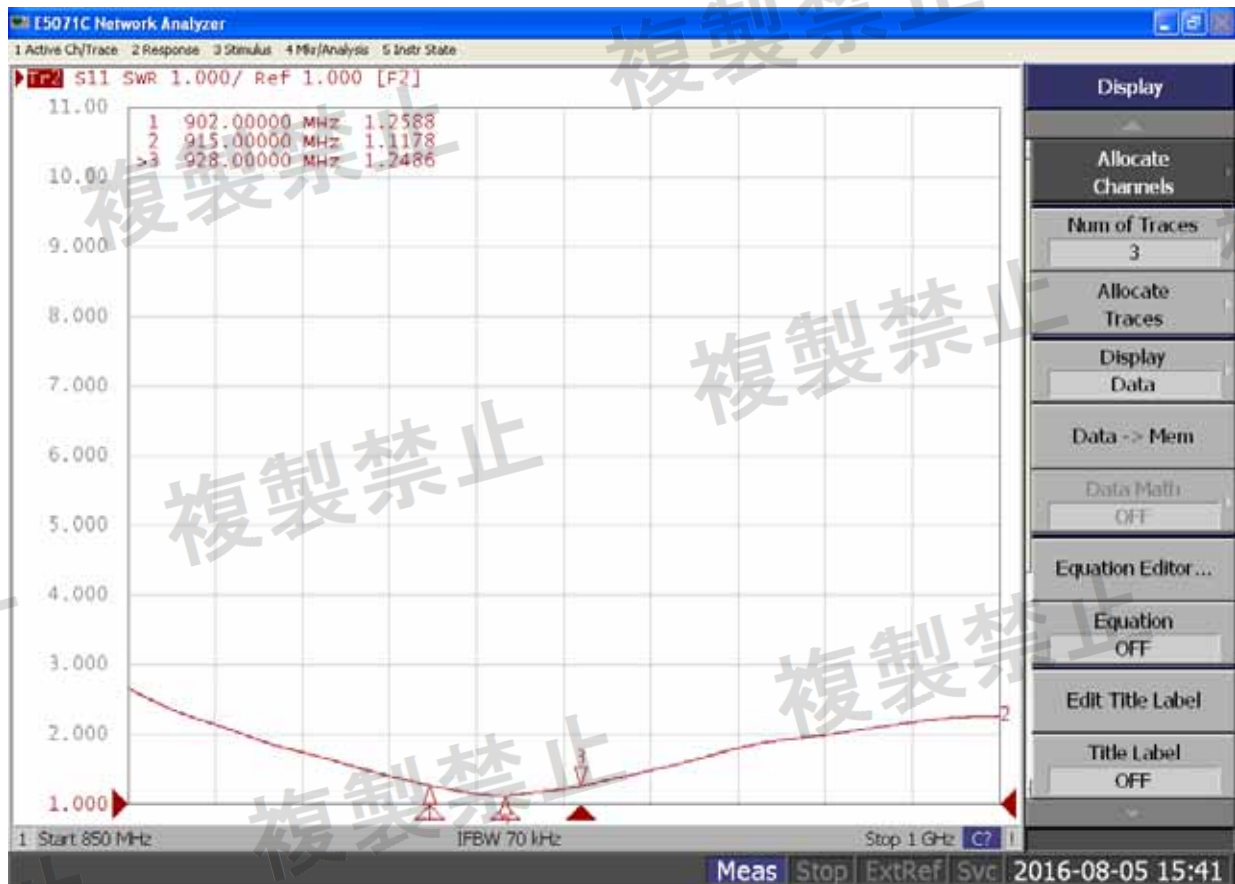
Electrical		
Item	Specification	Remark
Test Environment	N/A	
Frequency Range	902~928MHz	
VSWR	<2 (max)	
Input Impedance	50 ohm	
Port to Port Isolation	N/A	
Polarization	Vertical	
Gain(Peak gain)	2.8dBi	
Efficiency	>50%	
Half Power Beam Width (HPBW)	45±5deg @ Vertical Cut 360 deg @ Horizontal Cut	
Mechanical		
Dimensions	(φ)20(23.5)*(L)450mm	
Connector	N-type	
Cable Type	N/A	
Cable length	N/A	
Radome Material	PC	
Ingress Protection	N/A	
Operating Temperature	-20°C ~70°C	
Storage Temperature	-20°C ~70°C	

THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

1. Antennas' setup and environment



2. Network Analyzer Measurement



3. Gain & Patterns test results

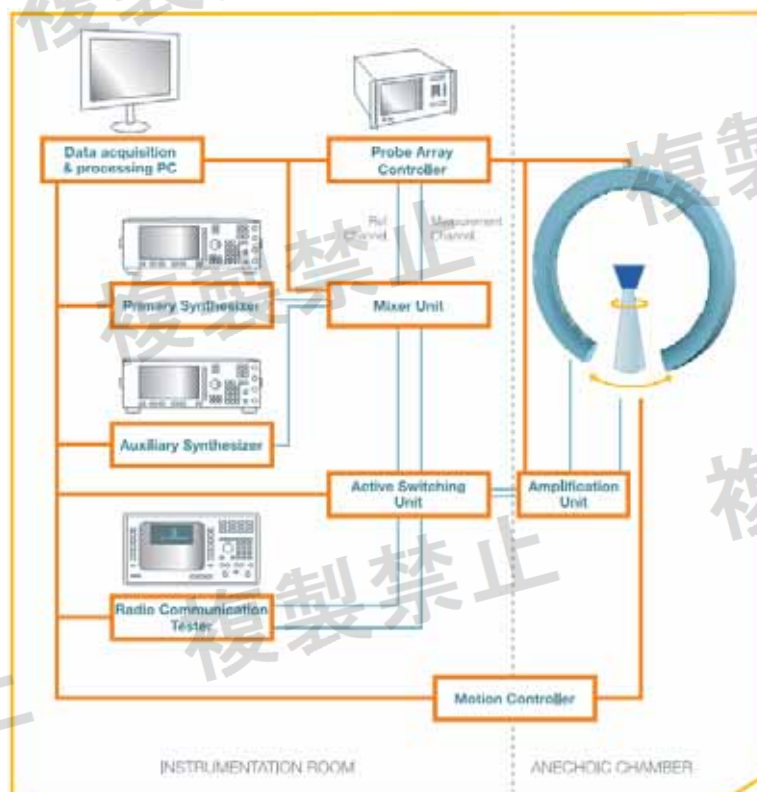
3.1 Lab information

- Lab name : Satimo
- Address : No.326 Sec.2, Kung Tao 5 Road, HsinChu City, Taiwan
- Certification : none (Satimo system certification: CTIA, 3GPP, Wi-Fi alliance and WiMAX Forum)
- Size (LxWxH) : 5m x 5m x 5m
- Isolation level : >100dB
- Normal applications : antenna radiation pattern measurement, OTA performance testing.
- Frequency measurement range : 0.4 to 6 GHz
- EUT scanning method : conical cut method
- Measurement distance : 1.6m
- Measurement antenna specification (for θ and Φ polarization each) : dual polarization antenna for 0.4 to 6.0 GHz frequency range

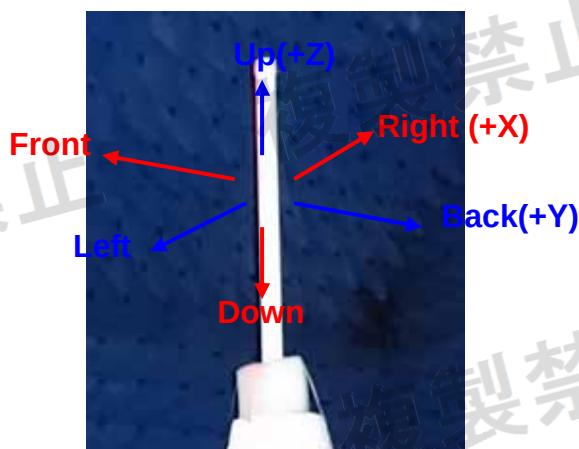


0.4 to 6.0 GHz probe

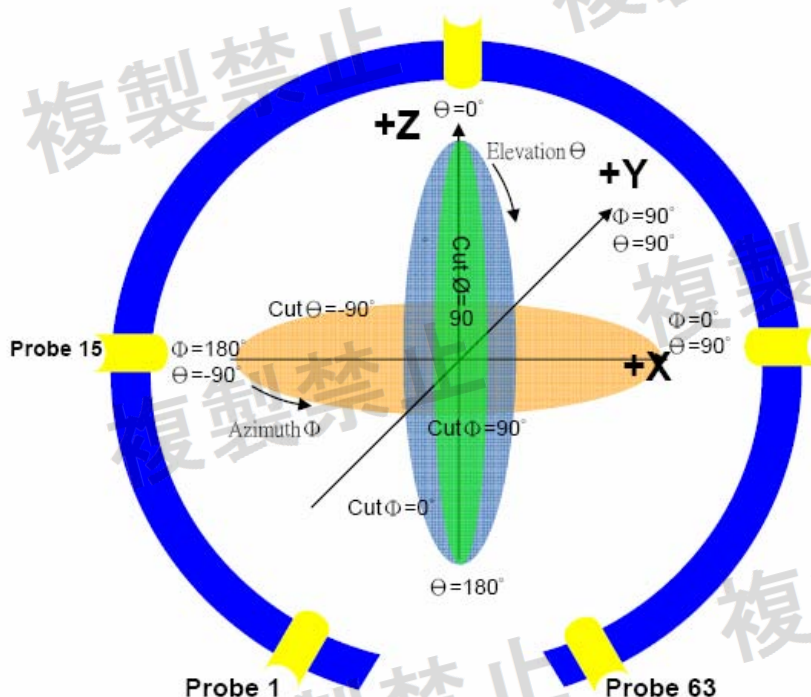
- Equipment list :



3.2 Measurement setting

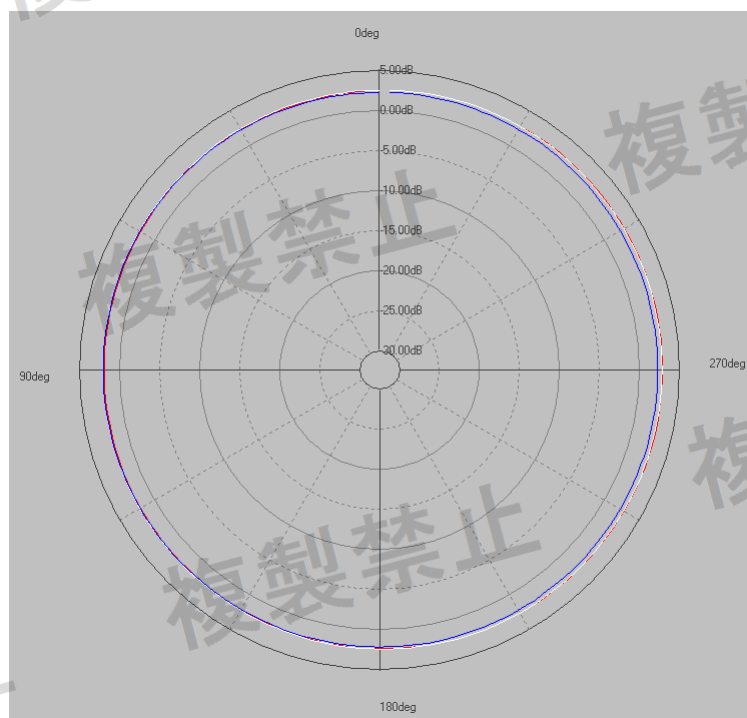
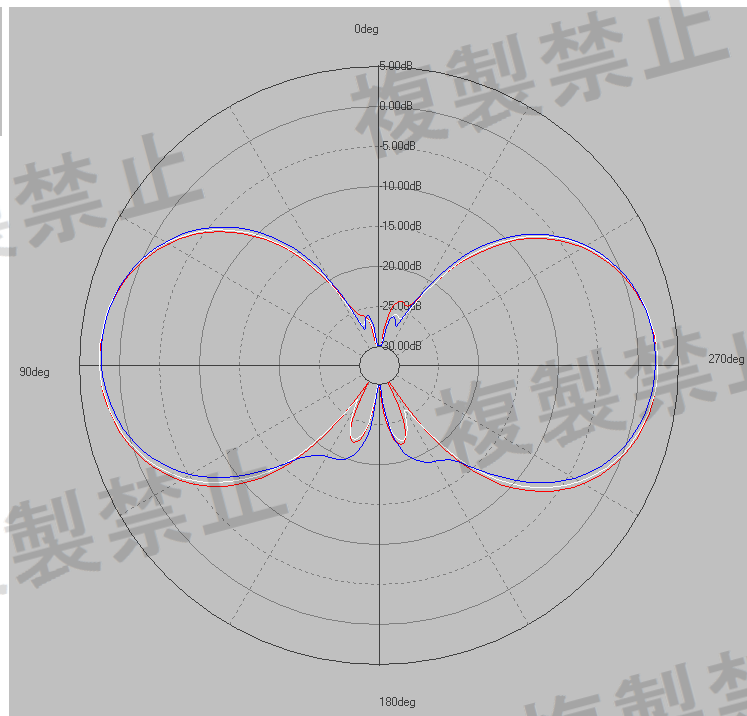
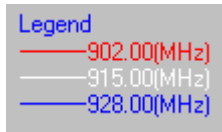


	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left



	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

3.3 2D Patterns



4. Summary

Frequency (MHz)	Peak gain(dBi)	Efficiency
902	2.88	69%
915	2.81	69%
928	2.31	66%



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DONGGUAN PARNER TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 鴻海科技股份有限公司

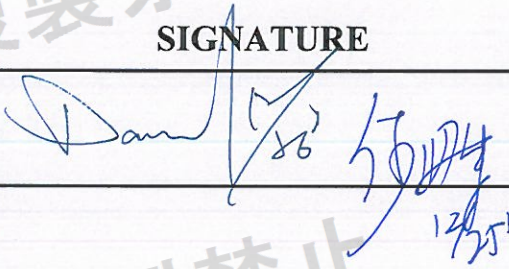
PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C107-511516-A(SRF20171850)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :	12/25/17	

WHA YU GROUP

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RF Antenna Assembly

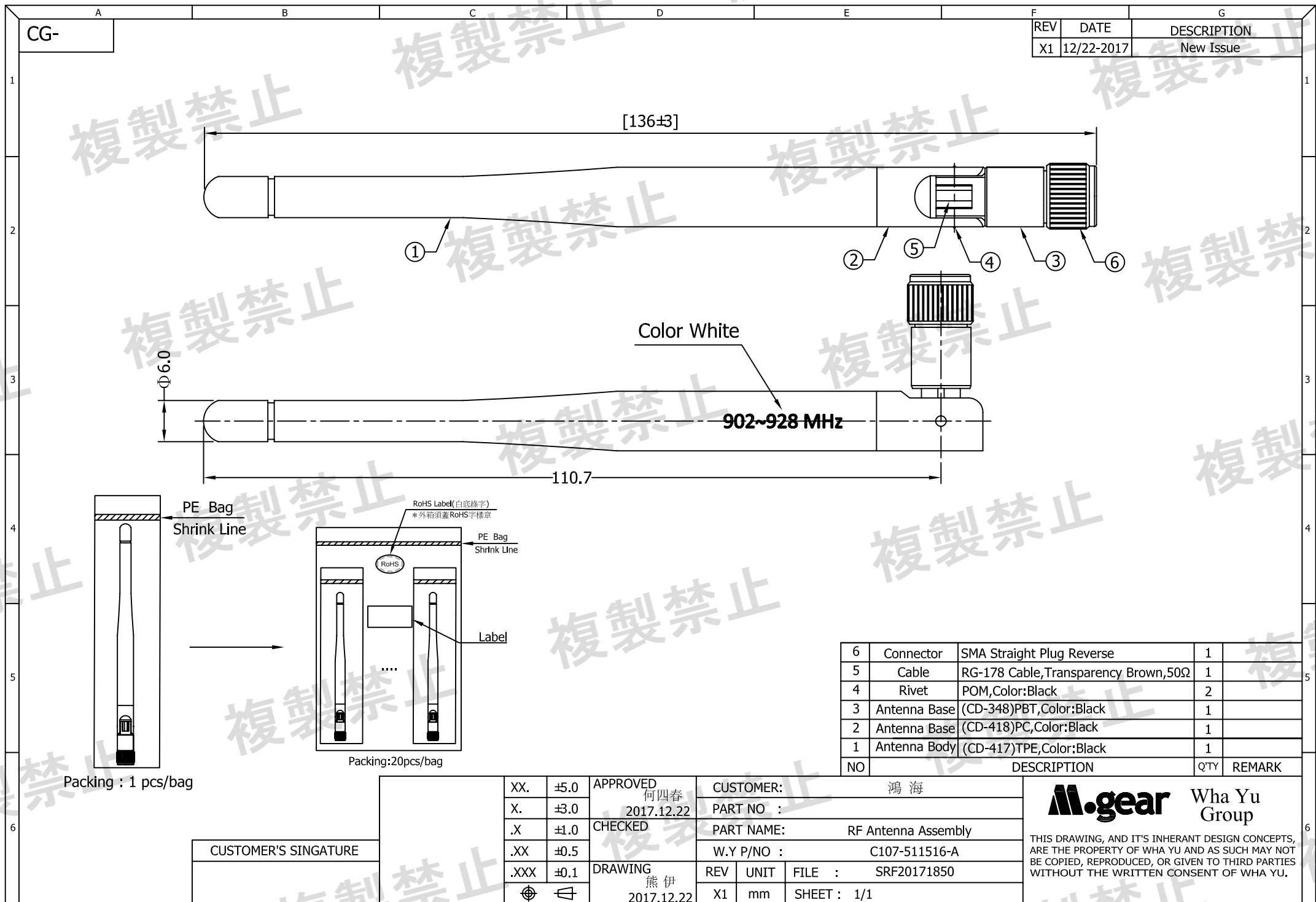
Specification

1. Electrical Properties :

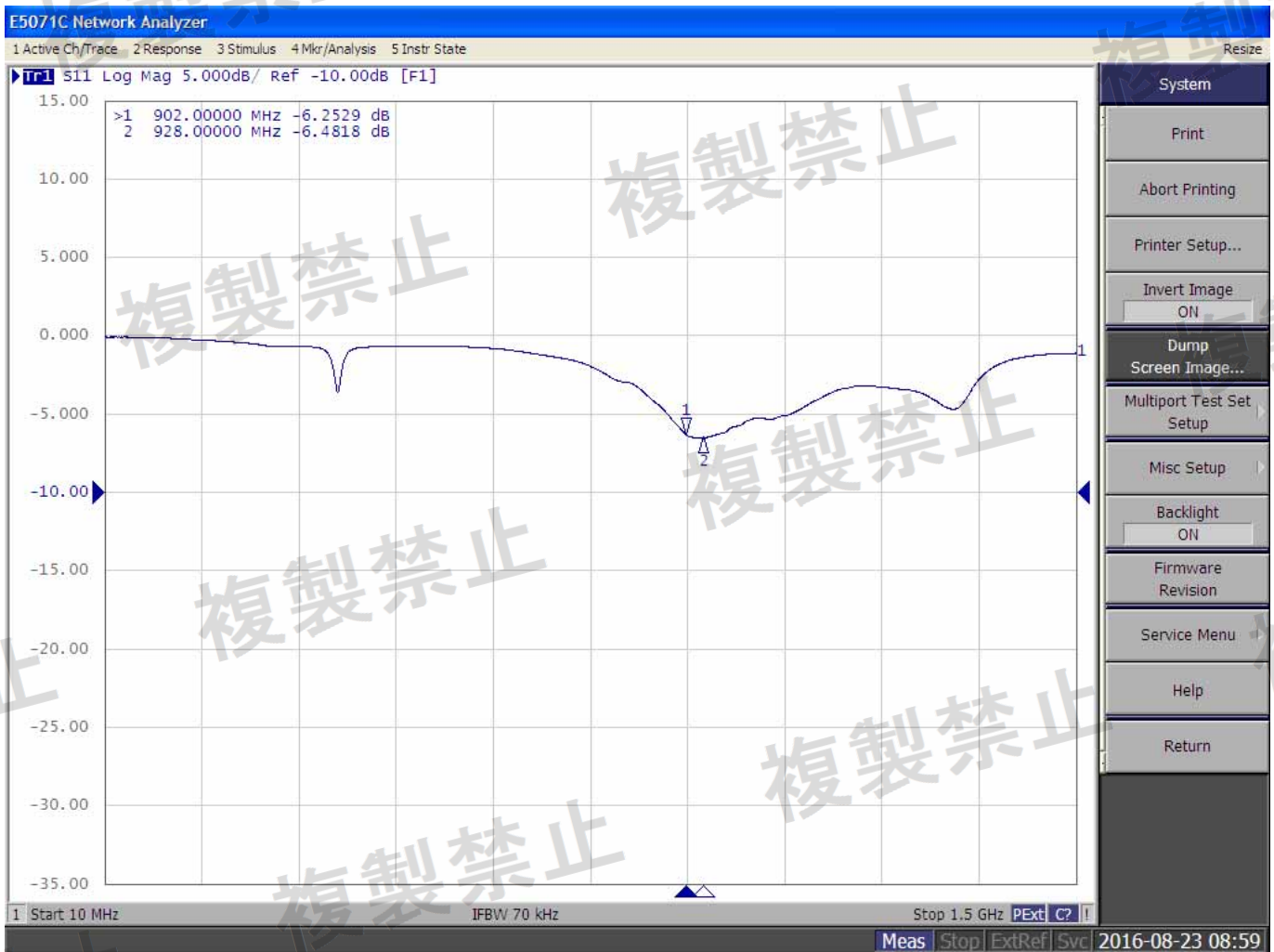
- 1.1 Frequency Range..... 902~928MHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 3:1 Max.
- 1.4 Return Loss..... -6 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 1.5dBi
- 1.7 Efficiency..... 60%
- 1.8 Cable loss..... NA
- 1.9 Admitted Power..... 1W
- 1.10 Cable..... RG-178 Cable
- 1.11 Connector..... SMA Plug Reverse

2. Physical Properties :

- 2.1 Operating Temp. -10°C ~ +60°C
- 2.2 Storage Temp. -10°C ~ +70°C

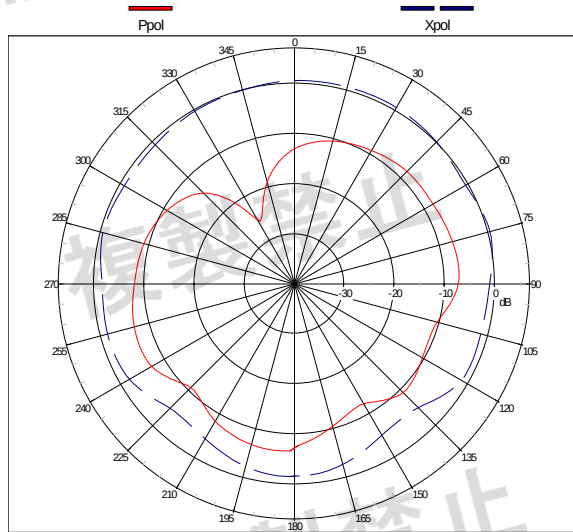


1. Antenna S-parameter test results (Passive Antenna)

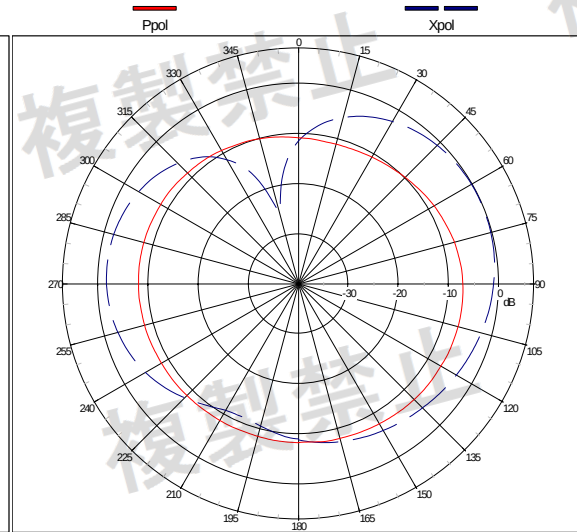


1.2 2D Radiation patterns test results (Passive Antenna)

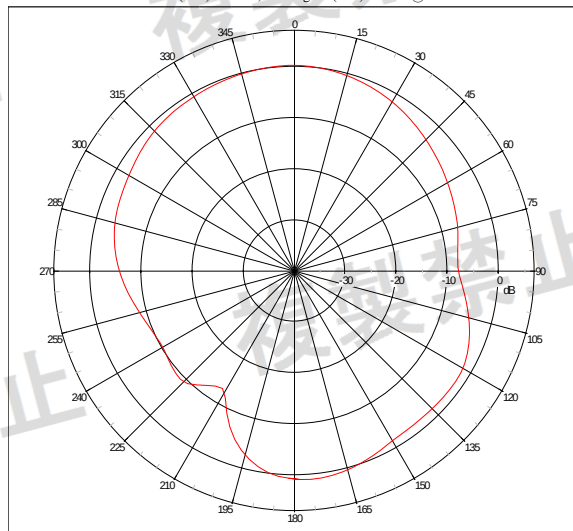
Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg/(Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.7 dB; Plot PeakGain(V-Pol): 0.6dB @ Freq: 0.90000 GHz



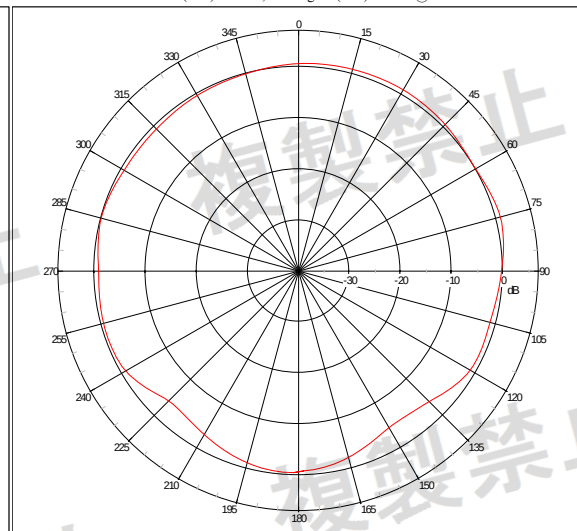
Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg/(X-Y Plane-Cut)
Plot PeakGain(H-Pol): -7.2 dB; Plot PeakGain(V-Pol): -0.2dB @ Freq: 0.90000 GHz



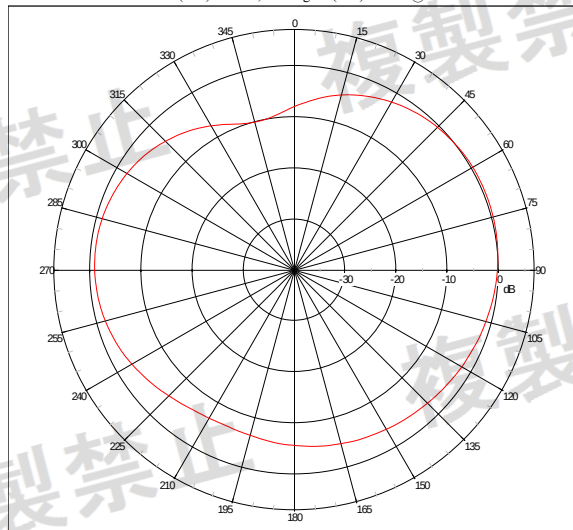
Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 0.8 dB; Plot AvgGain(H+V)=0.0dB @0.90200 GHz



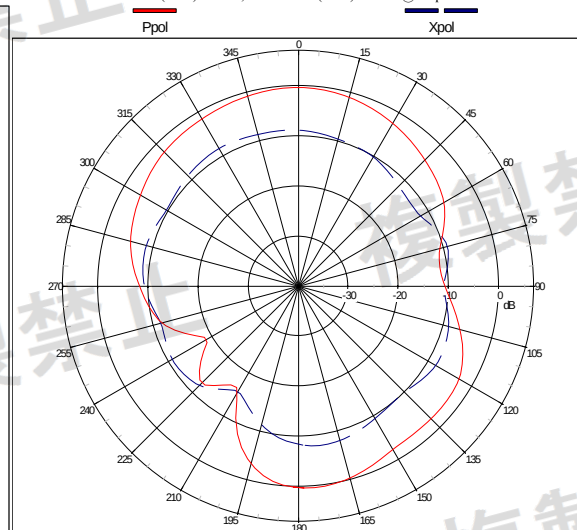
Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 0.9 dB; Plot AvgGain(H+V)= 0.0dB @ 0.90200 GHz



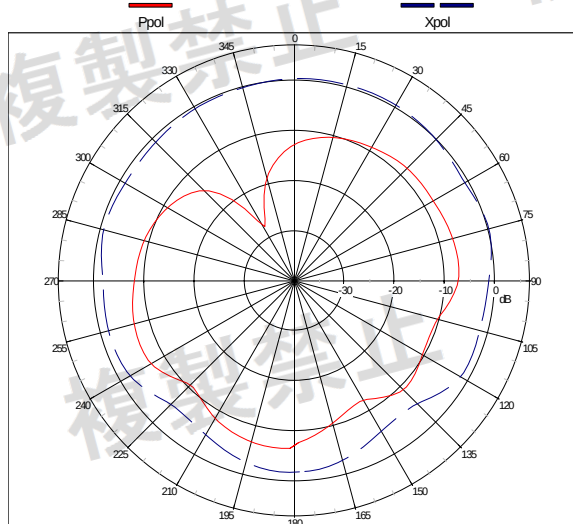
Far-field Power Distribution(H+V) on X-Y Plane
Plot Peak Gain(H+V)= 0.2 dB; Plot AvgGain(H+V)= 0.0dB @0.90200 GHz



Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg/(X-Z Plane-Cut)
Plot PeakGain(H-Pol): 0.2 dB; Plot PeakGain(V-Pol): -8.1dB @ Freq: 0.90200 GHz



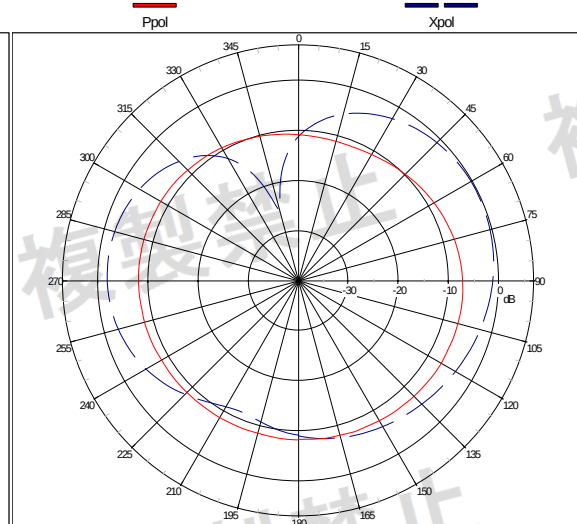
Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.6 dB; Plot PeakGain(V-Pol): 0.5 dB @ Freq: 0.90200 GHz



Far-field Power Distribution(H+V) on X-Z Plane

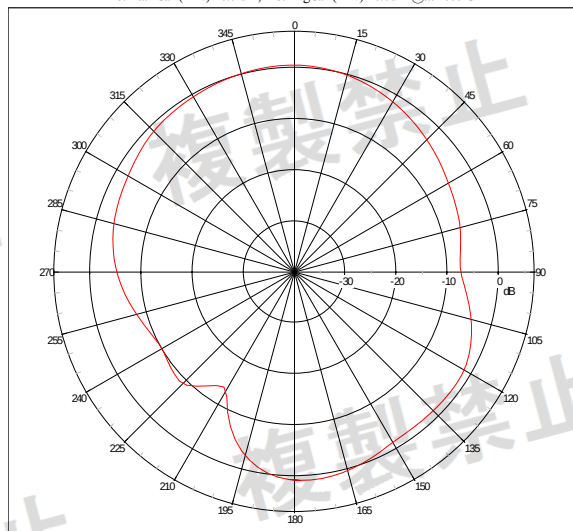
Plot Peak Gain(H+V)= 0.7 dB; Plot AvgGain(H+V)= 0.0 dB @ 0.91000 GHz

Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)
Plot PeakGain(H-Pol): -7.2 dB; Plot PeakGain(V-Pol): -0.4 dB @ Freq: 0.90200 GHz



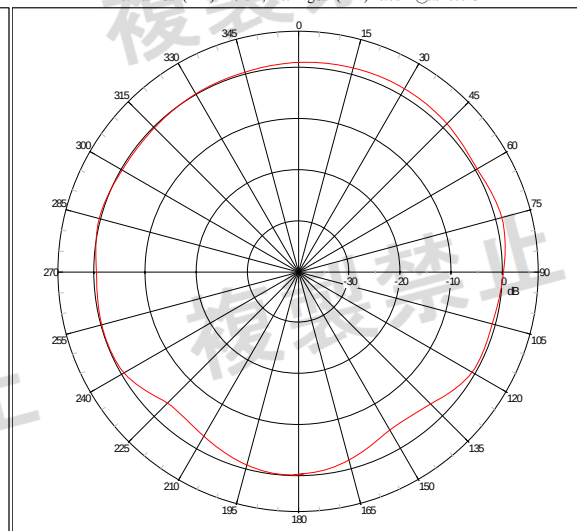
Far-field Power Distribution(H+V) on Y-Z Plane

Plot Peak Gain(H+V)= 1.3 dB; Plot AvgGain(H+V)= 0.0 dB @ 0.91000 GHz



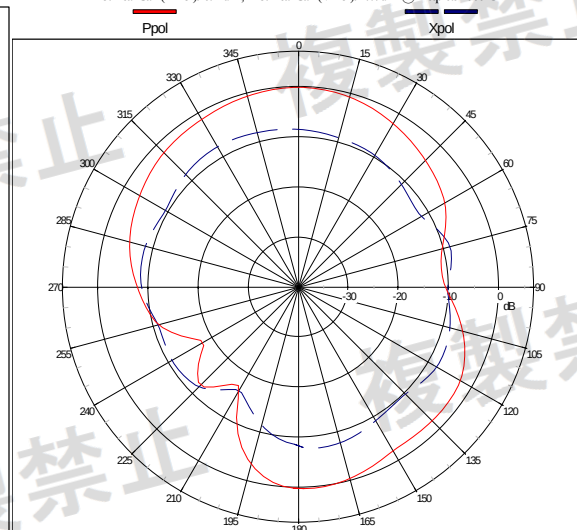
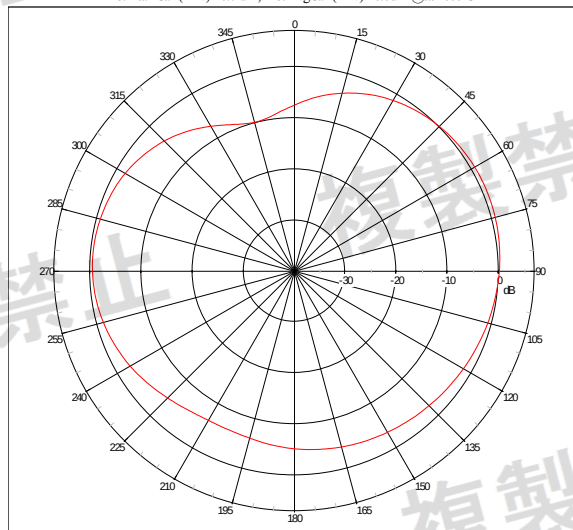
Far-field Power Distribution(H+V) on X-Y Plane

Plot Peak Gain(H+V)= 0.7 dB; Plot AvgGain(H+V)= 0.0 dB @ 0.91000 GHz

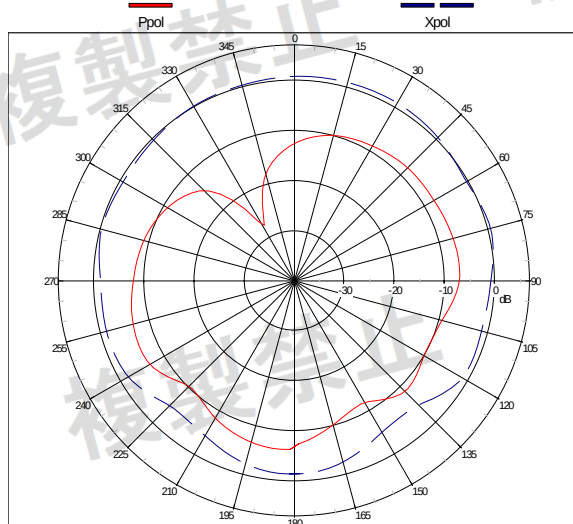


Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): 0.1 dB; Plot PeakGain(V-Pol): -7.7 dB @ Freq: 0.91000 GHz



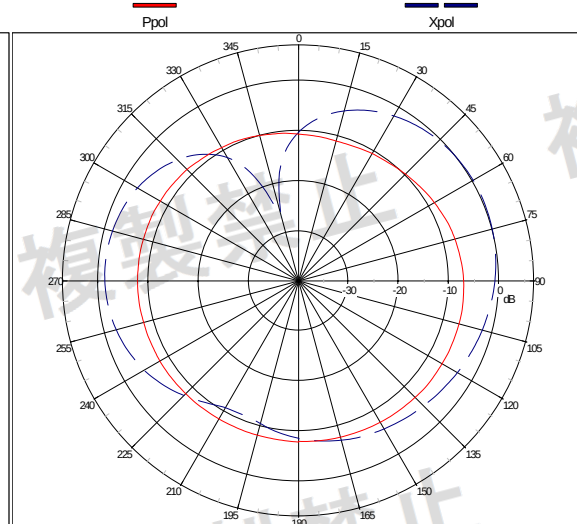
Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.4 dB; Plot PeakGain(V-Pol): 0.9 dB @ Freq: 0.91000 GHz



Far-field Power Distribution(H+V) on X-Z Plane

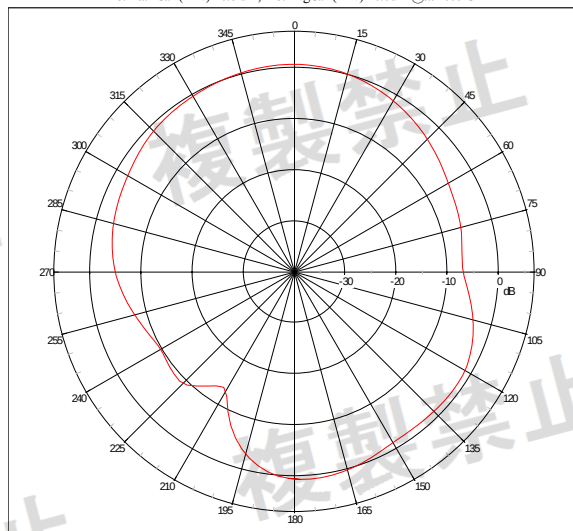
Plot PeakGain(H+V)= 0.6 dB; Plot AvgGain(H+V)= 0.0dB @0.92000 GHz

Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)
Plot PeakGain(H-Pol): -6.9 dB; Plot PeakGain(V-Pol): 0.1 dB @ Freq: 0.91000 GHz



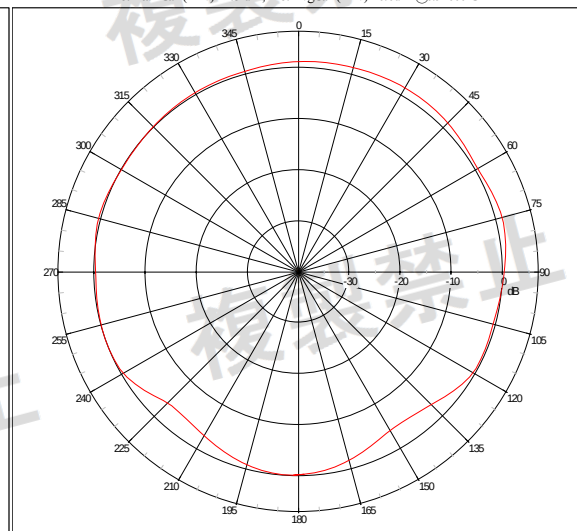
Far-field Power Distribution(H+V) on Y-Z Plane

Plot PeakGain(H+V)= 1.5 dB; Plot AvgGain(H+V)= 0.0dB @0.92000 GHz



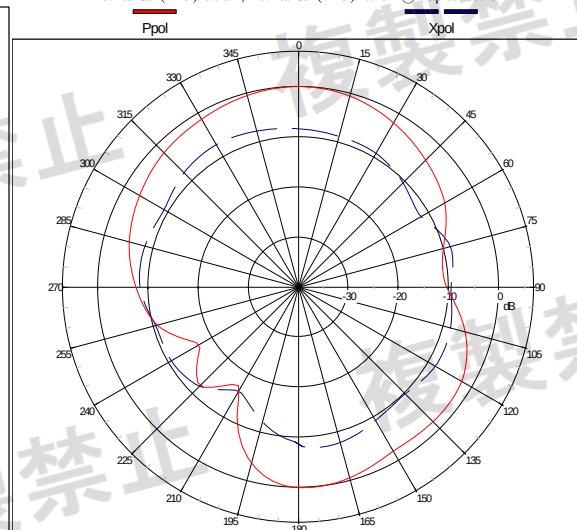
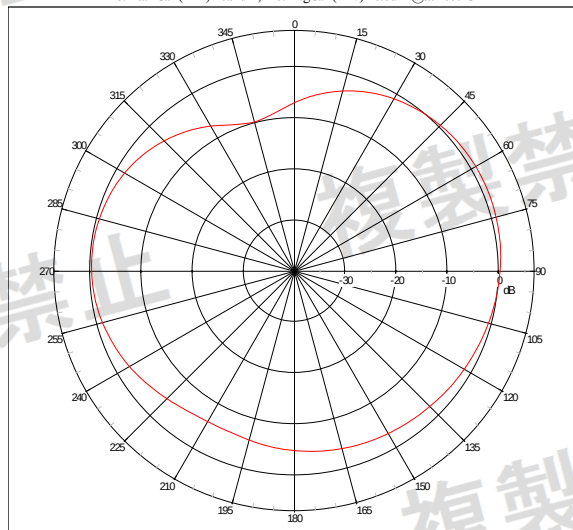
Far-field Power Distribution(H+V) on X-Y Plane

Plot PeakGain(H+V)= 0.9 dB; Plot AvgGain(H+V)= 0.0dB @0.92000 GHz

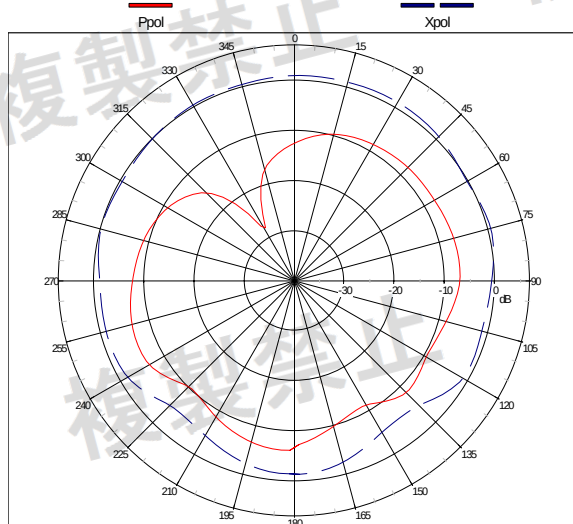


Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): 0.0 dB; Plot PeakGain(V-Pol): -7.2dB @ Freq: 0.92000 GHz



Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.2 dB; Plot PeakGain(V-Pol): 1.1 dB @ Freq: 0.92000 GHz

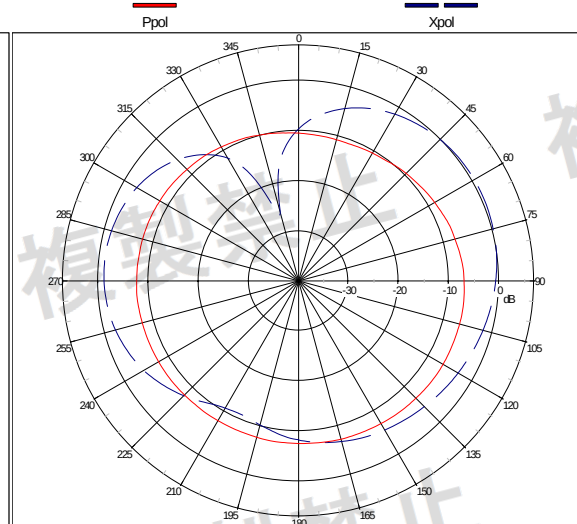


Far-field Power Distribution(H+V) on X-Z Plane

Plot PeakGain(H+V)= 0.5 dB; Plot AvgGain(H+V)= 0.0dB @0.92800 GHz

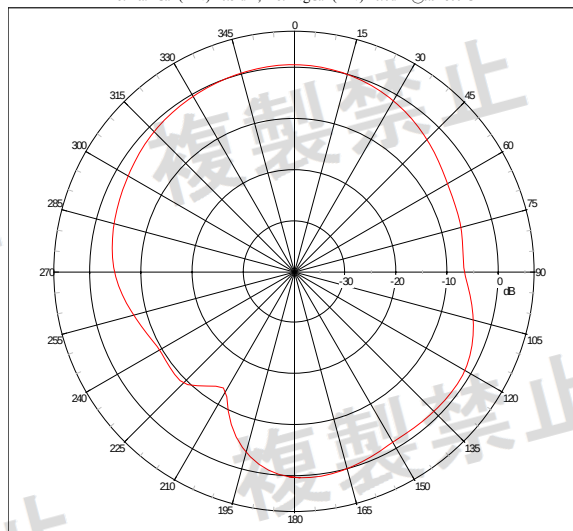
Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)

Plot PeakGain(H-Pol): -6.8 dB; Plot PeakGain(V-Pol): 0.4dB @ Freq: 0.92000 GHz



Far-field Power Distribution(H+V) on Y-Z Plane

Plot PeakGain(H+V)= 1.5 dB; Plot AvgGain(H+V)= 0.0dB @0.92800 GHz

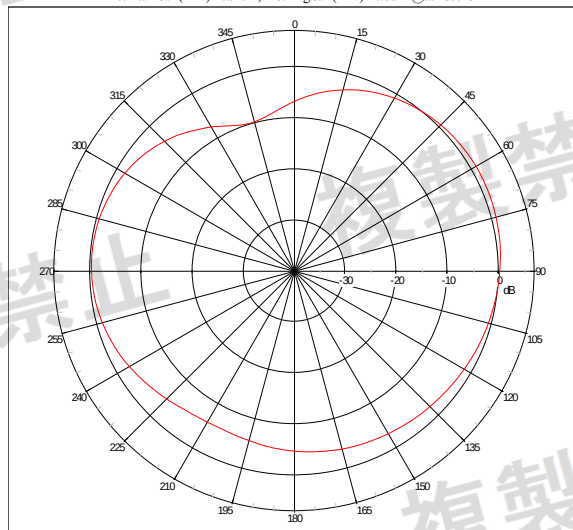
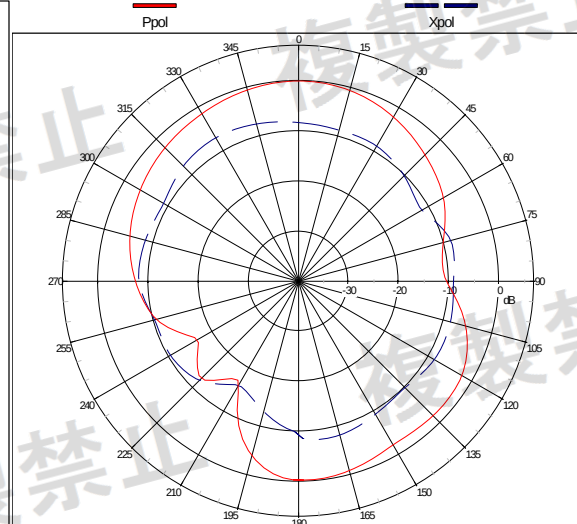


Far-field Power Distribution(H+V) on X-Y Plane

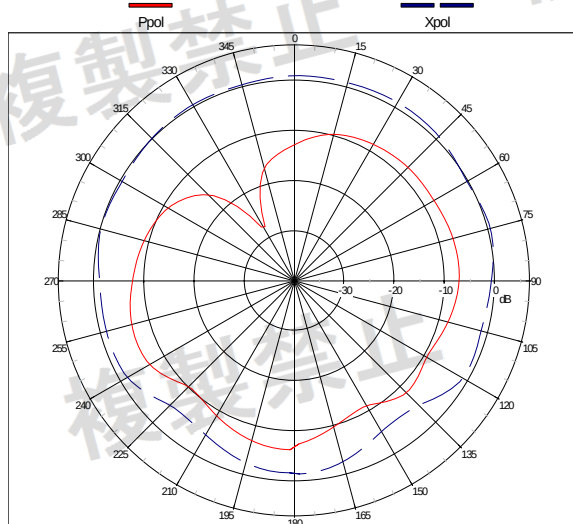
Plot PeakGain(H+V)= 0.9 dB; Plot AvgGain(H+V)= 0.0dB @0.92800 GHz

Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): -0.1 dB; Plot PeakGain(V-Pol): -7.0dB @ Freq: 0.92800 GHz



Far-field Patterns of H-Pol & V-Pol @ $\Phi=90$ deg (Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.3 dB; Plot PeakGain(V-Pol): 1.0 dB; @ Freq: 0.92800 GHz

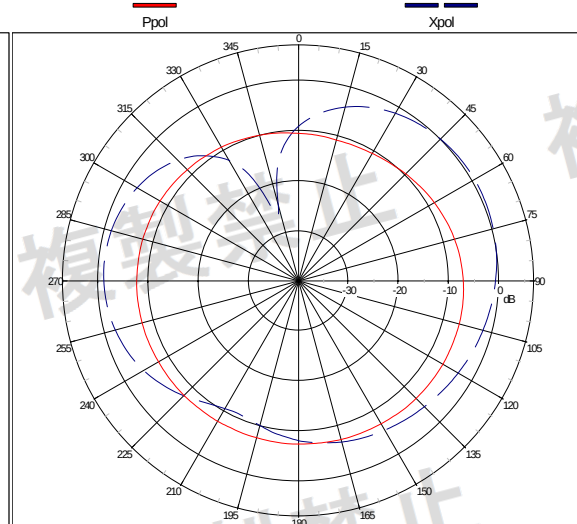


Far-field Power Distribution(H+V) on X-Z Plane

Plot PeakGain(H+V)= 0.7 dB; Plot AvgGain(H+V)= 0.0 dB; @0.93000 GHz

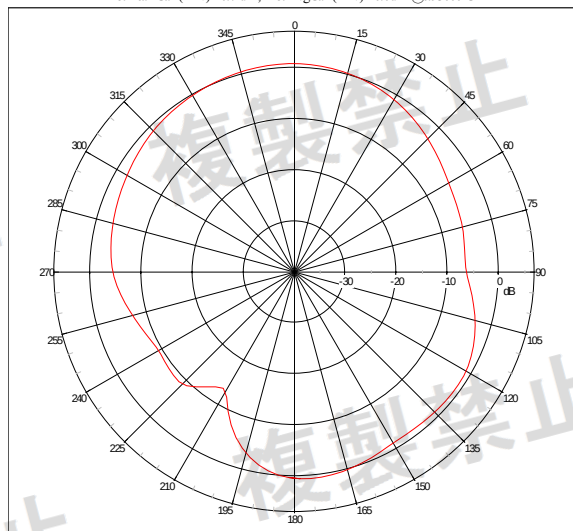
Far-field Patterns of H-Pol & V-Pol @ $\Theta=90$ deg (X-Y Plane-Cut)

Plot PeakGain(H-Pol): -6.8 dB; Plot PeakGain(V-Pol): 0.4 dB; @ Freq: 0.92800 GHz



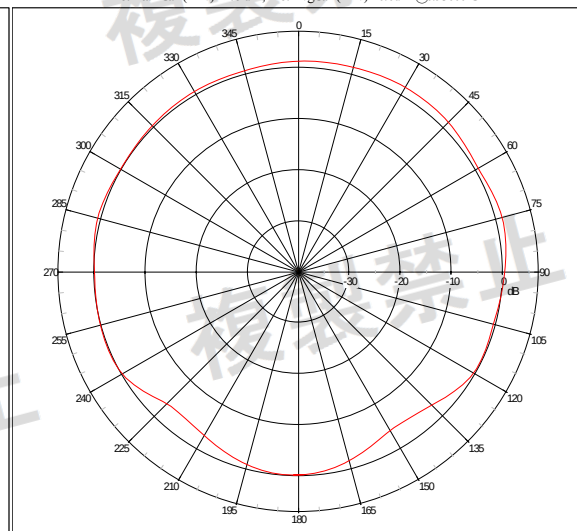
Far-field Power Distribution(H+V) on Y-Z Plane

Plot PeakGain(H+V)= 1.6 dB; Plot AvgGain(H+V)= 0.0 dB; @0.93000 GHz



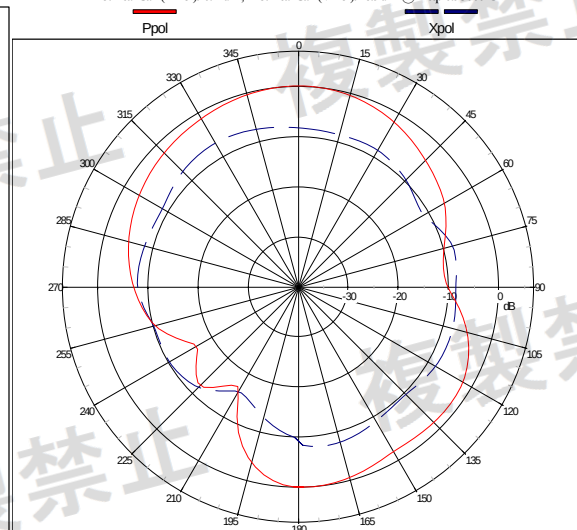
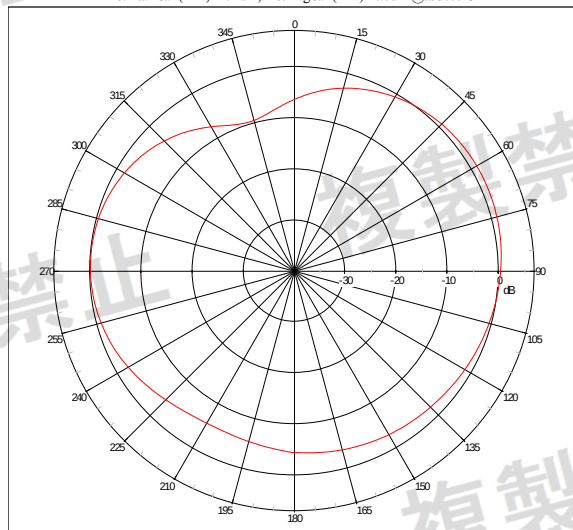
Far-field Power Distribution(H+V) on X-Y Plane

Plot PeakGain(H+V)= 1.1 dB; Plot AvgGain(H+V)= 0.0 dB; @0.93000 GHz



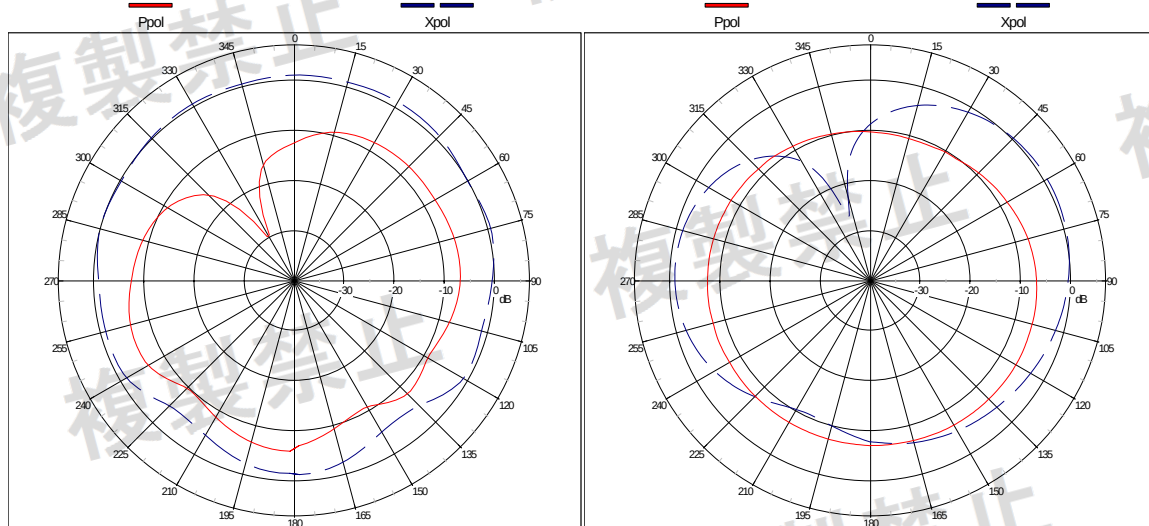
Far-field Patterns of H-Pol & V-Pol @ $\Phi=0$ deg (X-Z Plane-Cut)

Plot PeakGain(H-Pol): 0.1 dB; Plot PeakGain(V-Pol): -6.9 dB; @ Freq: 0.93000 GHz



Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg/(Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -6.0 dB; Plot PeakGain(V-Pol): 1.2dBi @ Freq: 0.93000 GHz

Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg/(X-Y Plane-Cut)
Plot PeakGain(H-Pol): -6.6 dB; Plot PeakGain(V-Pol): 0.6dBi @ Freq: 0.93000 GHz



2.Test Value

Frequency(MHz)	X-Z plane(Phi=0)	Y-Z plane(Phi=90)	X-Y plane(Theta=90)	Gain-3D (H+V) dBi	Efficiency (%)
	Peak Gain (H+V)	Peak Gain (H+V)	Peak Gain (H+V)		
900	0.8	1	0.4	1.3	62
902	0.8	0.9	0.2	1.2	61
910	0.7	1.3	0.7	1.5	66
920	0.6	1.5	0.9	1.5	68
928	0.5	1.5	0.9	1.5	68
930	0.7	1.6	1.1	1.6	71



TO: CNSBG

SPECIFICATION FOR APPROVAL

CUSTOMER DWG. No./PART No. : N/A REV. : N/A

DESCRIPTION : Internal LoRA 920 HMz antenna A'ssy

FOXCONN PART. No. : ANTP2M6-CZZ61-EH REV. : X1

ATTACHMENTS:

- | | |
|----------------------------|------------|
| 1. CUSTOMER DRAWING | 2 |
| 2. PCB DRAWING | 3 |
| 3. PACKAGING SPECIFICATION | 4~9 |
| 4. TEST REPORT | 10~18 |

PLEASE RETURN TO FOXCONN ONE COPY OF

APPROVED SIGNATURES

Approved by : Eric

Checked by: Erin Dong

Prepared by: Wang Qin

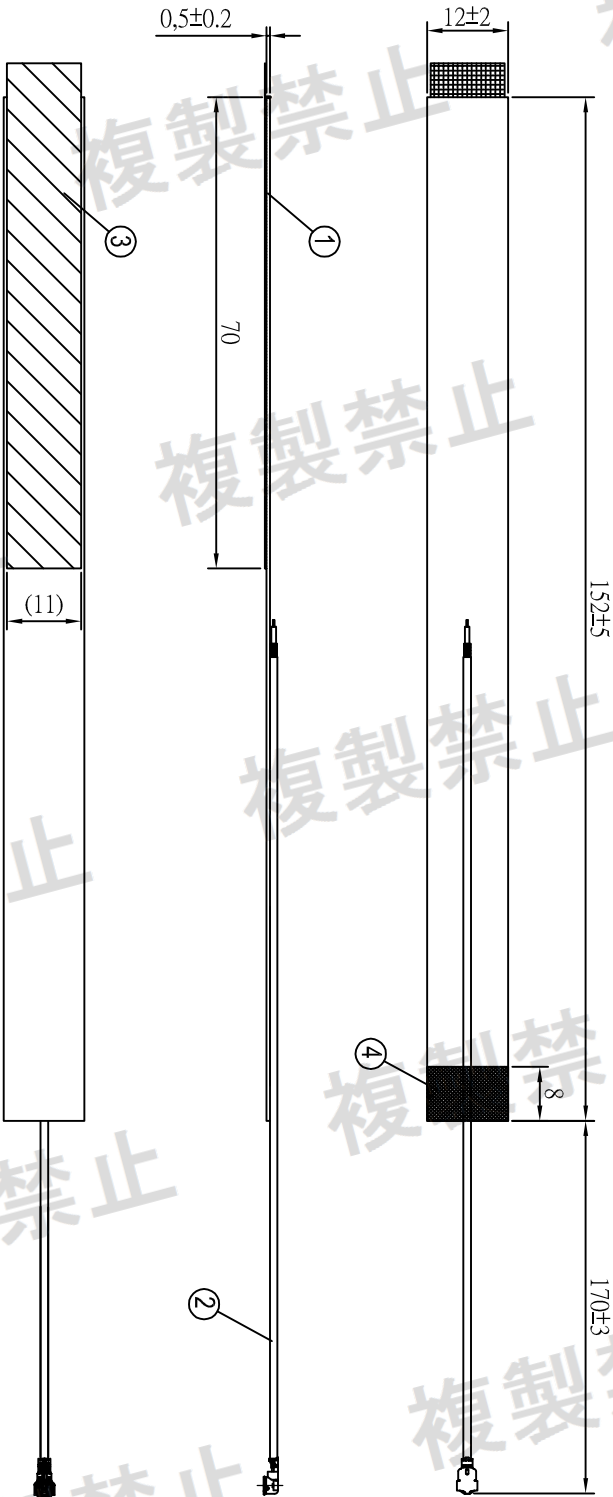
File No.: ANTP2M6-CZZ61-EH

Revision No.: X1

Date: 2018/7/9

IDEAS GENERATED DRAWING. DON'T CHANGE BY HAND.

REV.	ECN. NO.	APP.D.



NOTES:

1. Harmful material control please follow Doc. No."EP112" AND HALOGEN FREE(Br<900ppm;Cl<900ppm;Br+Cl<1500ppm)
- 2.VSWR SPEC in System @ 915~925MHz < 2.5

ITEM	PRAT NAME	DESCRIPTION	Q'TY
4	醋酸布	W*L=8*12mm	1 PCS
3	ADHESIVE	SONY G9000	1 PCS
2	Cable Ass'y	ø1.13/LLS/IPEX1/Black Jacket	1 PCS
1	PCB	PCB Size:152*12*0.5mm	1 PCS

X±	1.00	X±	UNITS	NAME(INTENDED USED)	CLASS
X±	0.25	X±	mm	CUSTOMER	CONFIDENTIAL/SECRET
X±	0.12	X±	FR4	PART NO.(INTENDED USED)	GENERAL
XXX±	XXX±	FINISH	APPD:	Roger Ruan 07/23'18	TITLE: Internal LoRA 920 MHz antenna A say
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED.				CHKD: Shengtai 07/23'18	DWG NO.
				DRAW: Ming Ho 07/23'18	SCALE
					SHEET
					REV.



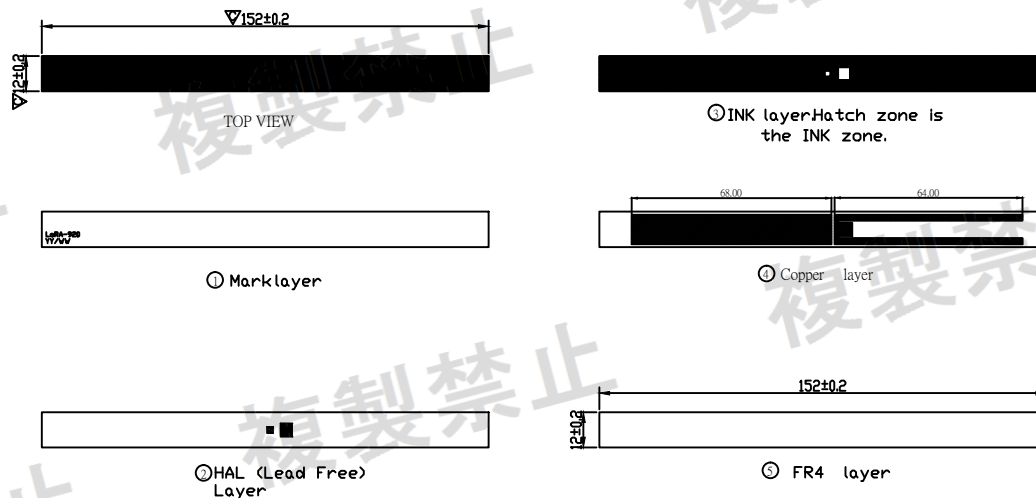
FOXCONN INTERCONNECT TECHNOLOGY LIMITED

TBD

1/1 1/1 X1

IDEAS GENERATED DRAWING. DON'T CHANGE BY HAND.

REV.	ECN. NO.	APPD.



NOTES:

1. Harmful material control please follow Doc. No."EPI12"
2. Dimension marked ∇ should be checked.
3. The mass production should be compared with the golden sample when IQC make a careful check of the PCB board.
4. PCB Total Thickness is 0.6 $\pm$ 0.10mm
5. Material : FR4
6. HAL (Lead Free) Finish: Normal,Thickness= 1~40 μ M
7. Solder mask : INK ; Color: Green ; Legend mark: White. The thickness is 0.4mil min.
8. The shadow section of PCB must be covered by soldermask .
9. Plating is smooth and uniform through hole. The maximum shift less than 0.025mm
10. Best no wicking present. And wicking does not exceeds 0.10mm [4mil] is acceptable.
11. PCB thermal resists is max 288°C, time is 10second. 3 Times.
12. Material must meet UL 94V-0.
13. All the words on the mark layer must be capital letters.
14. The words on the process side should be at the center and the contents of process side should be VENDOR LOGO, PCB PART NO, REVISION and its text height is 2.0 $\pm$ 0.3mm
15. All the mark must follow the mark layer,especially the dimensions. The YY/WW height is 1.5 $\pm$ 0.3mm, the height of UL MARK is 2.0 $\pm$ 0.3mm such as 94V-0 or 94V-0. Unless otherwise specified,the text height is 1.5 $\pm$ 0.3mm The PAD should not be covered with the mark.

1	MARK LAYER
2	HAL LAYER
3	COPPER LAYER
4	FR4 LAYER

SIDE VIEW

VENDOR LOGO,UL MARK,PCB PART NO. REV. X1

Process side mark

X $\pm$ 1.00	X* $\pm$	UNITS mm	NAME<INTENDED USE> COMPONENT	 FOXCONN INTERCONNECT TECHNOLOGY LIMITED.
.X $\pm$ 0.25	.X* $\pm$	MAT'L FR4	PART NO.<INTENDED USE> ANTP2M6-CZZ61-EH	
.XX $\pm$ 0.12	.XX* $\pm$		APPD: Roger Ruan 05/22'18	CLASS: ☐ CONFIDENTIAL ☐ SECRET ☒ GENERAL
.XXX $\pm$	.XXX* $\pm$	FINISH	Q'TY	TITLE: Internal LoRA 920 MHz antenna A'ssy
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED.			CHKD: Sheng.tai 05/22'18	DWG NO.: TBD
			DRAW: Misa Ho 05/22'18	SCALE SHEET REV. 1/1 1/1 X1

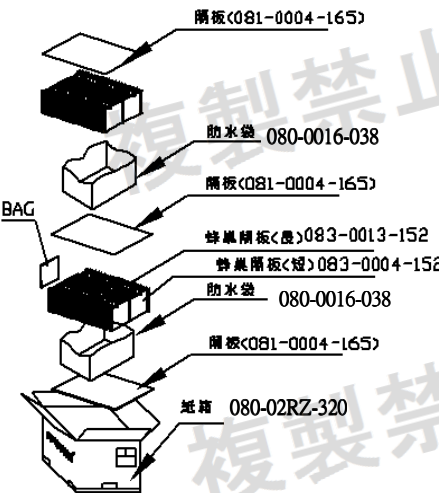
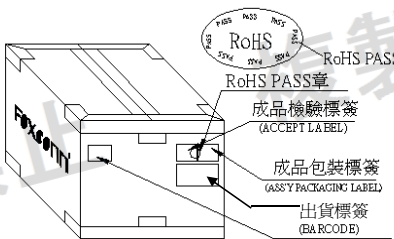


環保要求
符合 EPI12 規定

FK3B00281D



包裝作業規範

規範編號		EB5-APAN-***		保密等級		☐ 機密 ☐ 密 ☒ 一般															
				PAGE		2/6	REV.	X1													
適用客戶		CNSBG		適用產品		ANTP2M6-CZZ61-EH															
				包裝類別		蜂巢隔板															
包裝作業圖示及說明				備 注																	
一：1.每10PCS產品用PE BAG 包裝起來，將50PCS(5個PE BAG)包裝好的產品疊放在一起,放入隔板中.(圖示供參考) 				二： 1.在外箱(080-02RZ-320)內放入隔板（081-0004-165） 2.在外箱內放入防水袋（080-0016-038），并敞開袋口。 3.分別放入蜂巢隔板（083-0013-152）3PCS,及蜂巢隔板（083-0004-152）11PCS,成蜂巢狀放入袋中,每1隔間內放入50PCS 產品。 4.包好防水袋,在上面放入隔板（081-0004-165），再放1PC防水袋(080-0016-038),并敞開袋口。 5.如上重複3.4，上下兩層各1000PCS,共2000PCS。 6.封好防水袋，在頂層放1隔板（081-0004-165），封箱。 7.封箱后,在外箱上貼上標籤。 如圖： 					1.標籤張貼位置及填寫注意事項,請參照生產管理作業標準: (THE STICKING POSITION OF LABEL AND THE POINTS FOR ATTENTION, 外裝瓦楞紙箱及標籤應用管理辦法(文件編號:P103-P01), REFER TO FILE: P103-P01.) 2.外箱封箱請依據ESH-KKG-003成品出貨之封箱作業標準文件, (HOW TO SEAL THE BOX, REFER TO FILE: ESH-KKG-003.) 3.封後之外箱,在棧板上最高堆疊高度：5層, (THERE ARE FIVE STOREYS AT MOST ON THE PALLET AFTER SEALED BOX.) 4.包裝標籤: (PACKAGING LABEL) <table><tr><td>P/N:</td><td>FOXCONN P/N</td></tr><tr><td>C.P/N:</td><td>CUSTOMER P/N #</td></tr><tr><td>DATE:</td><td>MM/DD/YYYY ☐</td></tr><tr><td>Q'TY:</td><td>PCS W'T: _____</td></tr></table> 1.標籤中"#"表客戶版次, FOXCONN料號,客戶料號及版次依計劃表為準;如CISCO無鉛料號, 版次後加*; 2.標籤中MM/DD/YYYY表示: 生產月份/日期/年份 (例如: 12/13/2009) 3.標籤中"□"表UL認可製造地代碼。 例如: B: 龍華; T:台灣; K:昆山 H:淮安 4.Q'TY:裝箱數量, 依包規; 零數箱依實際為準。 5.W'T:產品標重, 依系統為準。 備注：如產品出國外，標籤需帶"Made in china". *若出貨為成品時,每箱實重應以實測重量為準。					P/N:	FOXCONN P/N	C.P/N:	CUSTOMER P/N #	DATE:	MM/DD/YYYY ☐	Q'TY:	PCS W'T: _____
P/N:	FOXCONN P/N																				
C.P/N:	CUSTOMER P/N #																				
DATE:	MM/DD/YYYY ☐																				
Q'TY:	PCS W'T: _____																				
三：外箱標籤粘貼方式 																					



FOXCONN INTERCONNECT TECHNOLOGY LIMITED

包裝作業規範

				保密等級		☐ 機密 ☐ 密 ☒ 一般			
規範編號		EB5-APAN-***		PAGE		3/6	REV.	X1	
適用客戶		CNSBG	適用產品		ANTP2M6-CZZ61-EH		包裝類別		蜂巢隔板
包裝作業圖示及說明						備 注			
內箱BARCODE： 客戶料號&版次 包裝數量 廠內料號&版次 生產日期 生產D/C 包裝序列號 50mm 80mm (P)C P/N: 61P6331 Rev.A (Q)QTY: 1000 (M)Mfr P/N: JA1333L-112 Rev.A (D)Date Code: 130116 (L)Lot#: 31GA (S)PKG ID: 0T001303000001 (N)FOXCONN 條碼內容：(僅指樣例) 一維條碼: 第一欄: P61P6331 第二欄: Q1000 第三欄: MJA1333L-112 第四欄: D130116 第五欄: L31GA 第六欄: S0T000801000001 第七欄: NFOXCONN 二維條碼: P61P6331,Q1000,MJA1333L-112,D130116,L31GA,S0T000801000001(條碼在一行)						1.用法：內箱BARCODE，內箱最小包裝； 2.客戶料號（C P/N）：指最終客戶料號； 3.Date Code：生產日期，用YYMMDD表示，如110103；交群創之產品需打印廠內實際之生產D/C，以保持與產品本體一致； 4.Lot#：用廠內生產D/C表示； 5.訂單號（P.O.#）:內部客戶之訂單號，如內交部分之Forecast的交貨，PO欄位則空白不填； 6.PK G ID編碼原則如下： XXXXXX---XXX XXXX XXXXXX A B C A.XXXXXX---XXX：Vender Code依鴻海供應商代碼為準； 昆山廠是0T00，英泰廠是F300，寶科廠是M PT000，淮安廠是M MX00，重慶廠是M MA000，江西廠是M M E00，鄭州廠是BFH001； 交群創Vender Code統一為A04541302；交建漢Vender Code統AC159. B.XXXX：共4位，生產年月代碼，用YYMM表示； C.XXXXXX:共6位，流水碼，採用三十六進制循環； 華東000001~N00000，華南N00001~ZZZZZZ 即000001~ZZZZZZ，一年刷新一次； 注：交鴻富錦（客戶代碼：BHF001）之CMMSG-DPBU之所有產品及武漢CMMSG(客戶代碼BHF111)之所有產品需在供應商名稱前加"（N）"及加印供應商名稱一維條碼。 其它出貨範圍則不用在供應商名稱前加"（N）"及加印一維條碼。 7.Barcode型號：Code 128/Code 93(交PCEBG DMDIII請使用Code93);二維條碼：QR Code. 8.Barcode一維條碼高度：5mm(min); 9.不允許在內包裝箱內放置幾種不同的Date Code,不同Lot#等物料。 備註：物料版次為內交客戶有需求時才打印，客戶無需求時Barcode上不得有REV字樣。 * 10.B/C 蓋Rohs PASS 章和 HF章. 11.詳細規格依據工標文件BC-FOXC-03最新版.			



FOXCONN INTERCONNECT TECHNOLOGY LIMITED

包裝作業規範

規範編號	EB5-APAN-***			保密等級	☐ 機密 ☐ 密 ☒ 一般
適用客戶	CNSBG	適用產品	ANTP2M6-CZZ61-EH	PAGE	4/6 REV. X1
				包裝類別	蜂巢隔板

包裝作業圖示及說明

備 注

外箱Barcode內容與規格:

同一包裝內不同Lot #

客戶料號&版次	(P)C P/N: 61P6331 Rev.A	(P)C P/N: 61P6331 Rev.A
包裝數量	(Q)QTY: 1000	(M)Mfr P/N: JA1333L-112 Rev.A
廠內料號&版次	(M)Mfr P/N: JA1333L-112 Rev.A	(D)Date Code: 130116
生產日期	(D)Date Code: 130116	(L)Lot#: 31GA (Q)QTY: 1000
生產D/C	(L)Lot#: 31GA	(L)Lot#: 31HA (Q)QTY: 2000
客戶訂單號	(K)P.O.: P0A-240058	(K)P.O.: P0A-240058

(N)FOXCONN

條碼內容: (僅指樣例)

第一欄: P61P6331

第二欄: Q1000

第三欄: MJA1333L-112

第四欄: D130116

第五欄: L31GA

第六欄: KP0A-240058

第七欄: S0T001303000001

第八欄: NFOXCONN

二維條碼: P61P6331,Q1000,MJA1333L-112,D130116,L31GA,KP0A-240058 (條碼在一行)

二維條碼: P61P6331,MJA1333L-112,D130116,L31GA,Q1000,L31HA,Q2000,KP0A-240058 (條碼在一行)

一層包裝方式:

一層包裝方式內不同Lot#

(P)C P/N: 61P6331 Rev.A	(P)C P/N: 61P6331 Rev.A
(Q)QTY: 1000	(M)Mfr P/N: JA1333L-112 Rev.A
(M)Mfr P/N: JA1333L-112 Rev.A	(D)Date Code: 130116
(D)Date Code: 130116	(L)Lot#: 31GA (Q)QTY: 1000
(L)Lot#: 31GA	(L)Lot#: 31HA (Q)QTY: 2000
(K)P.O.: P0A-240058	(K)P.O.: P0A-240058
(S)PKG ID: 0T001303000001	(S)PKG ID: 0T001303000001

(N)FOXCONN

二維條碼: P61P6331,Q1000,MJA1333L-112,D130116,L31GA,KP0A-240058,S0T001303000001(條碼在一行)

二維條碼: P61P6331,MJA1333L-112,D130116,L31GA,Q1000,L31HA,Q2000,KP0A-240058,S0T001303000001(條碼在一行)

- 用法: 外箱BARCODE, 外箱之正面;
- 客戶料號 (C P/N): 指最終客戶料號;
- Date Code: 生產日期, 用YYMMDD表示, 如110103; 交群創之產品需打印廠內實際之生產D/C, 以保持與產品本體一致;
- Lot#: 用廠內生產D/C表示;
- 訂單號 (P.O.#): 內部客戶之訂單號, 如內交部分之Forecast的交貨, PO欄位則空白不填;
- PK G ID編碼原則如下:
XXXXXX---XXX XXXX XXXXXX
A B C
A.XXXXXX---XXX: Vender Code依鴻海供應商代碼為準;
昆山廠是0T00, 英泰廠是F300, 寶科廠是M PT000, 淮安廠是M MX00, 重慶廠是M MA000, 江西廠是M M E00, 鄭州廠是BFH001;
交群創Vender Code統一為A04541302; 交建漢Vender Code統AC159.
B.XXXX: 共4位, 生產年月代碼, 用YYMM表示;
C.XXXXXX: 共6位, 流水碼, 採用三十六進制循環;
華東000001~N00000, 華南N00001~ZZZZZZ
即000001~ZZZZZZ, 一年刷新一次;
- 注: 交鴻富錦 (客戶代碼: BHF001)之CMMMSG-DPBU之所有產品及武漢CMMMSG(客戶代碼BHF111)之所有產品需在供應商名稱前加" (N) "及加印供應商名稱一維條碼。
其它出貨範圍則不用在供應商名稱前加" (N) "及加印一維條碼。
- Barcode型號: Code 128/Code 93(交PCEBG DMDIII請使用Code93); 二維條碼: QR Code.
- Barcode一維條碼高度: 5mm(min);
- 備註: 物料版次為內交客戶有需求時才打印, 客戶無需求時Barcode上不得有REV字樣。
* 9.B/C 蓋Rohs PASS 章和 HF章。
- 詳細規格依據工標文件BC-FOXC-01最新版。



FOXCONN INTERCONNECT TECHNOLOGY LIMITED

包裝作業規範

規範編號		EB5-APAN-***		保密等級		☐ 機密 ☐ 密 ☒ 一般			
適用客戶		CNSBG		適用產品		ANTP2M6-CZZ61-EH		包裝類別	蜂巢隔板
PAGE		5/6		REV.		X1			
包裝作業圖示及說明						備 注			
						1. 木棧板上放滿後, 在4個角各放1PC角板, 之後於四周纏繞打包膜; 打包膜至少纏繞 3 層.(打包膜一定要從棧板底部一直纏繞到貨物頂部) 2. 棧板尺寸為1.2Mx1.0Mx0.12M,0.12M為支承木塊的高度. 3. 棧板必須為木質的,包括原木和膠合木. 4. 棧板連同貨物堆積高度不大於1.7M. 5. 木棧板上每層最多擺放8箱,每棧板最多放5層, 共40箱。(棧板連同貨物堆積高度不大於1.7M) .			
						***本產品,制程之原物料/零件必須符合EPI12環境管理物質規定.			



複製禁止

複製禁止

規範編號		EB5-APAN-***
包裝材料		
材料名稱 (替代材料名稱)	料號 (替代材料料號)	淨重 (N.W.)
外箱(576x150*360mm)	080-02BZ-320	1.78

FK3B00281D

複製禁止

禁止製炮



T77I914 920MHz Antenna test report



(This evaluated report is used for reference only)

Prepared by:

Sheng

from Foxconn Lab.

Data: 2018/07/25

RFQ:

DFC NO.:

FOXCONN®

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Page:1



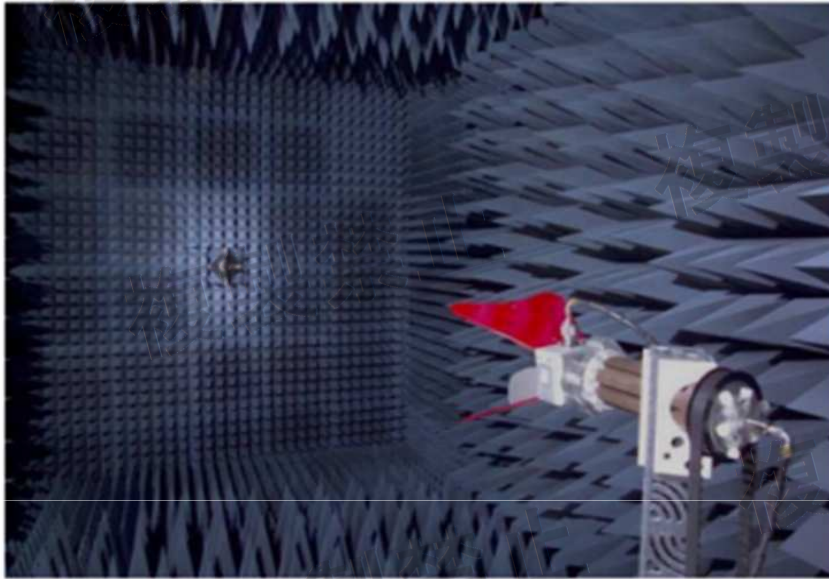
History

Revision	Description	Date
X_01	The evaluated report of 920MHz antenna	2018/07/25
	End	



Description of Antenna Test Environment

OTA-Chamber Active test

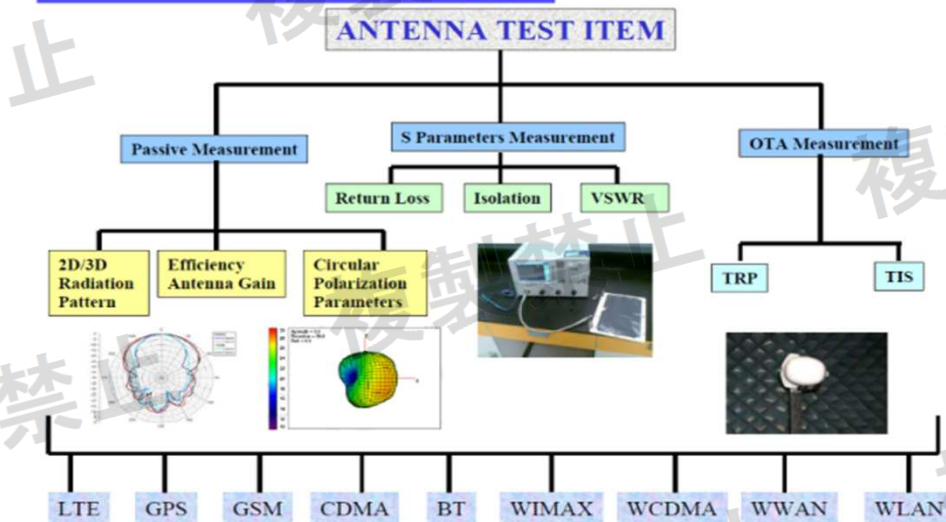


Foxconn 3D Chamber Test Compatibility

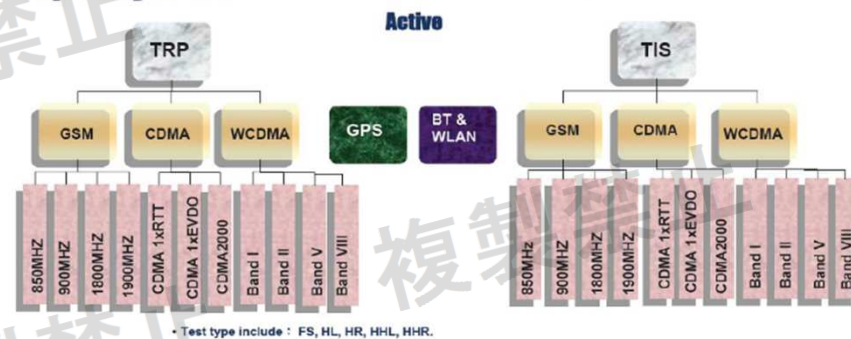


S11 measurements were taken with Agilent N5230C Network Analyzer.

OTA Capability in Foxconn



Capability Of OTA



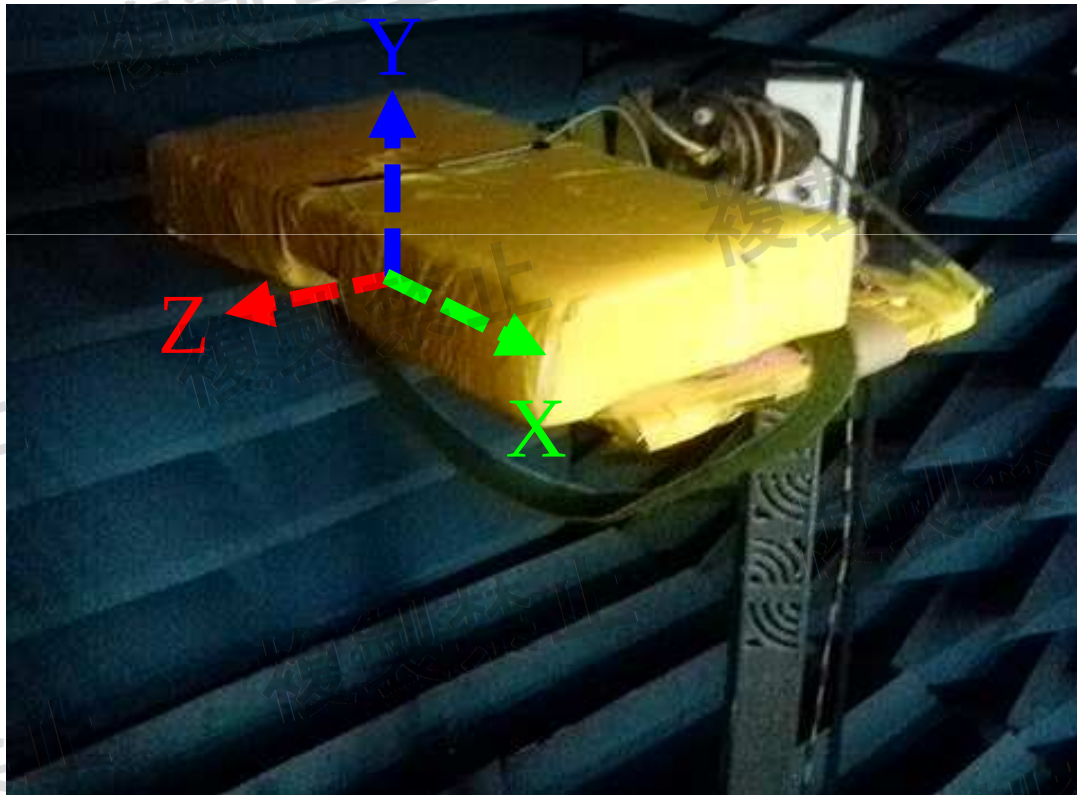
OTA test function had certificated by TAF in 2011 Q4.



Description of Antenna Test Environment(Chamber)

Coordination System

Antenna Measurement Coordination (In Chamber)



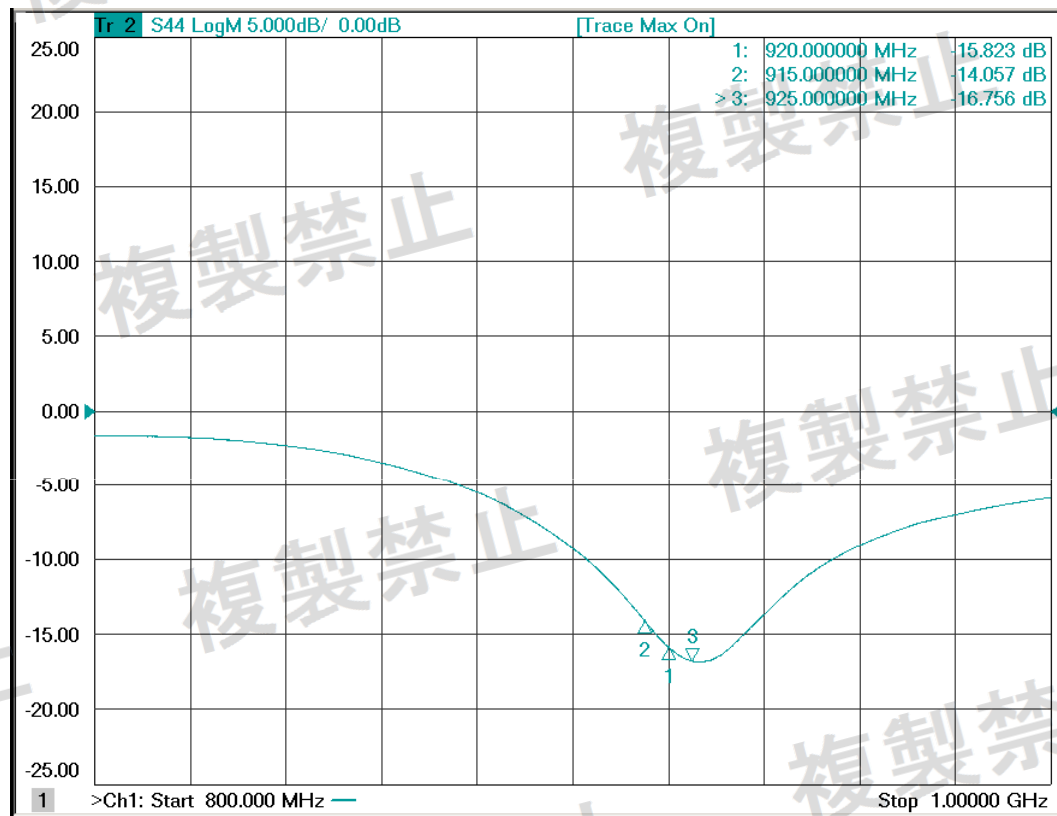


The Specification of Antenna

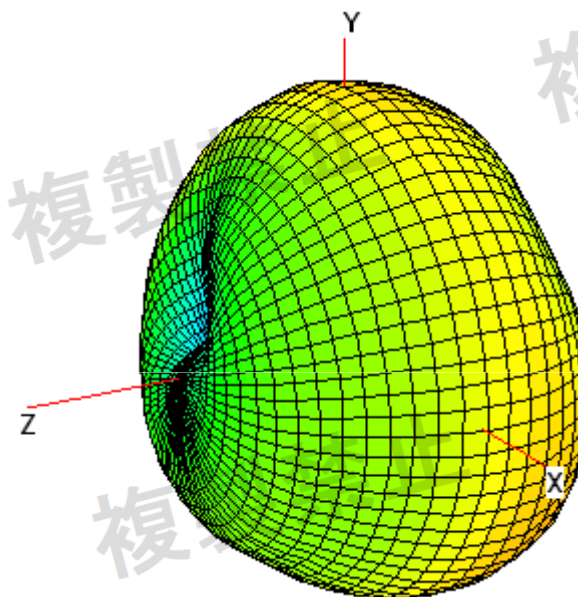
Parameter	RoLA
Frequency (MHz)	920MHz
Antenna Type	Dipole
Return Loss (dB)	≤ -10
Efficiency (%)	≥ 60
Peak Gain (dBi)	≤ 2
Impedance	50 ohms
Cable Length	170mm
Cable O.D	1.13mm LL Cable

Antenna Performance

R/L



3D Radiation Pattern

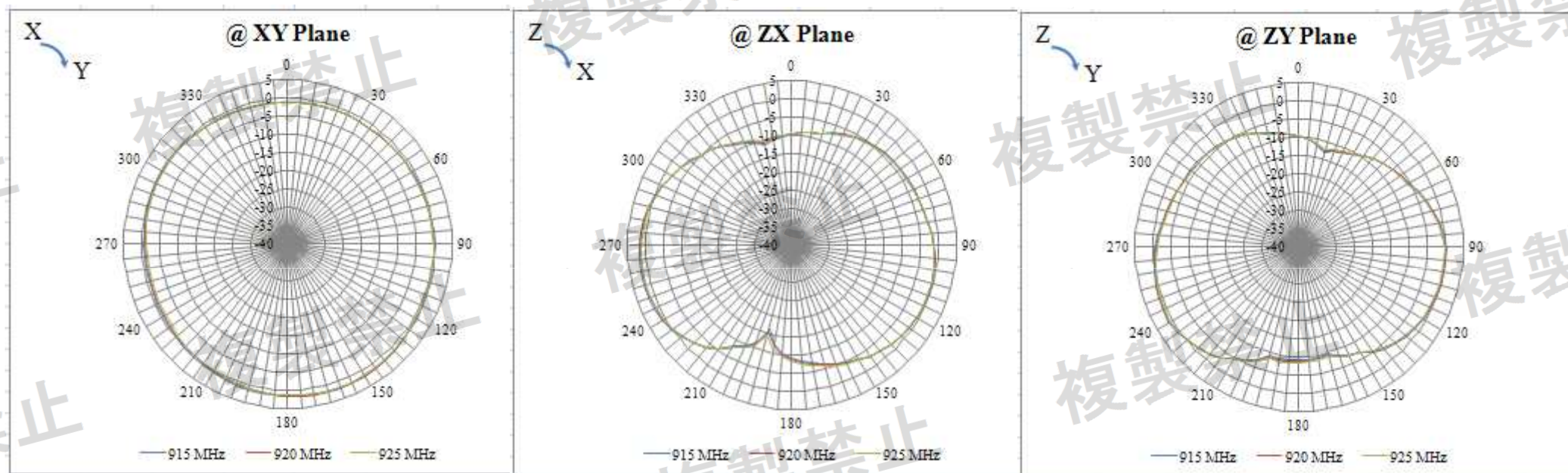


Gain Table

	920MHz Internal Antenna		
Frequency (MHz)	915	920	925
Efficiency (dB)	-1.99	-1.88	-1.74
Efficiency (%)	63.19	64.88	67.03
Peak Gain(dBi)	1.14	1.31	1.51



The 2D Radiation Pattern





Thanks for your attention

