



# 產品承認書

## SPECIFICATION FOR APPROVAL

CUSTOMER: **艾創科技股份有限公司**

Customer Part NO. :

Product Description: US361 WLAN Antenna OD1.13 Black Cable L90mm  
I-PEX

Gaobotech Part NO. : GA17-02201090B1-107

Product Weight :

客戶簽核(CSUTOMER APPROVAL)

客戶承認 Customer approval	核准 (Authorized)	檢驗 (Approved)
	Date : 2018 年 01 月 31 日	

高泊科技股份有限公司

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內部簽核 (Signature)	Version Date:	2018/01/31
<b>Approved by</b>	<b>Checked by</b>	<b>Tested by</b>
<i>Darren Chen</i>	<i>Kevin Chen</i>	<i>Johnny Hsueh</i>

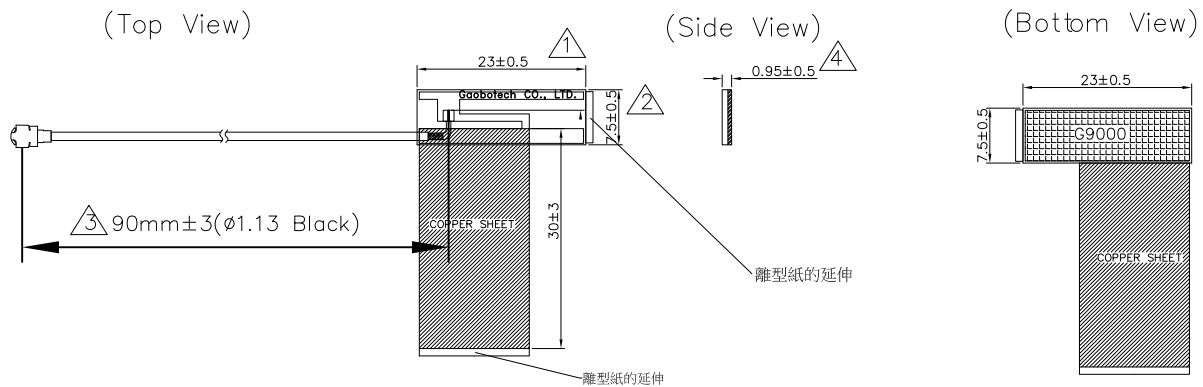
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# Specification

Electrical Properties			
Frequency	2400MHz	2450MHz	2500MHz
Impedance	50Ω		
VSWR	2.0:1MAX		
Peak Gain	3.66dBi		
Connector	I-PEX		

	ECN NO.	DRAWING	DESCRIPTION	APPROVED	DATE
A		Hank	初版發行	Darren	2017/11/09
B		Hank	更改Cable走線方向	Darren	2017/11/21
C		Hank	Gain改為3.66dBi	Darren	2018/01/31



**ELECTRICAL:**

Frequency: 2400MHz~2500MHz  
 Impedance: 50Ω  
 Peak Gain: 3.66dBi  
 Return Loss: ≤ -10dB

**MECHANICAL:**

Material: FR-4(Black) T=0.8mm  
 Cable: D1.13 Black 90mm  
 Connector: I-PEX

**NOTE:**

1. ①~④ 為重點量測尺寸
2. MHF 方向請按照圖面所示

TOLERANCE UNLESS OTHERWISE SPECIFIED				<b>Gaobotech CO., LTD.</b>				INITIAL MODEL:			
DIMENSION		ANGLES		CONFIDENTIAL	FINISH:		SCALE:		PART NAME		
.X±	0.2	X.*±	0.5		SIZE:	UNIT:	SCALE:		US361 WLAN Antenna OD1.13		
.XX±	0.1	.X.*±	0.02	DRAWING	DESIGNED	CONCURRED	APPROVED		Black Cable L90mm I-PEX		
.XXX±	0.05			Hank			Darren		PART NO.	REV.	SHT.
									GA17-02201090B1-107	C	1/1



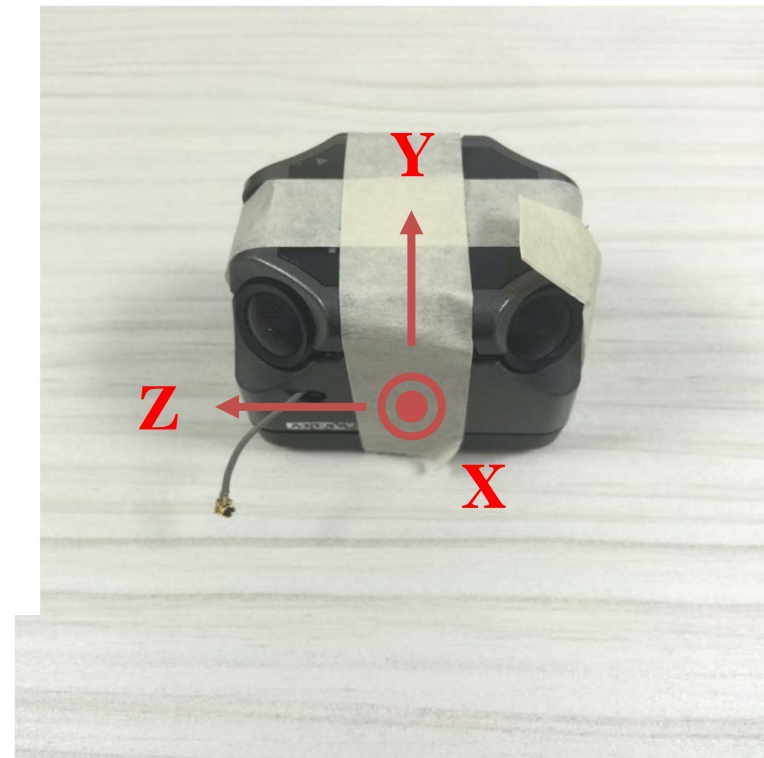
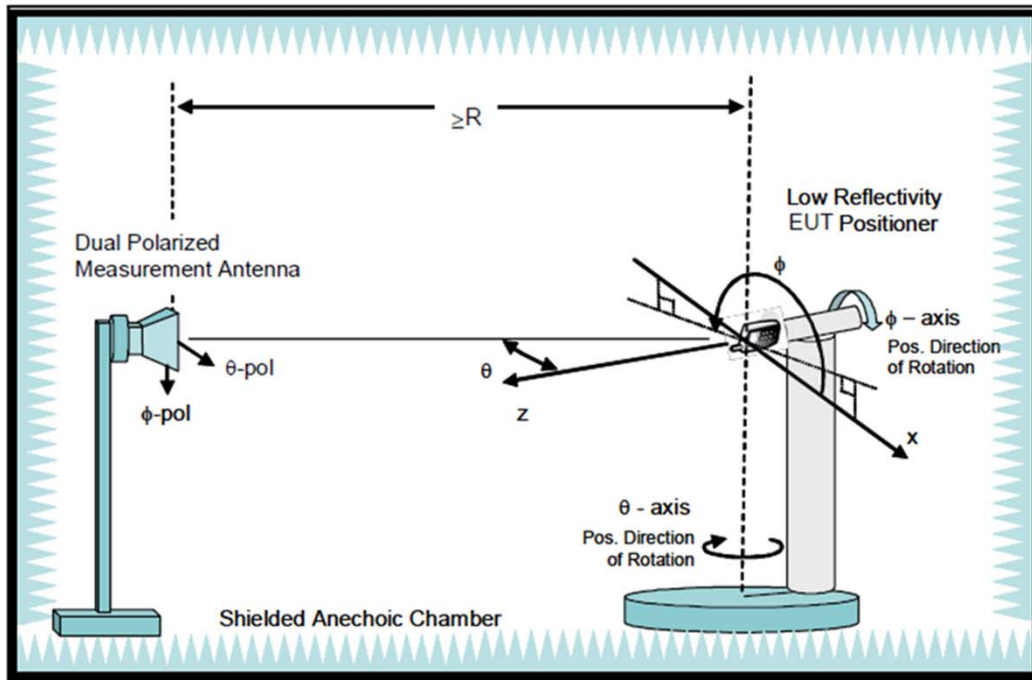
高泊科技股份有限公司

# ULTRACKER US361 WLAN Antenna Test Report

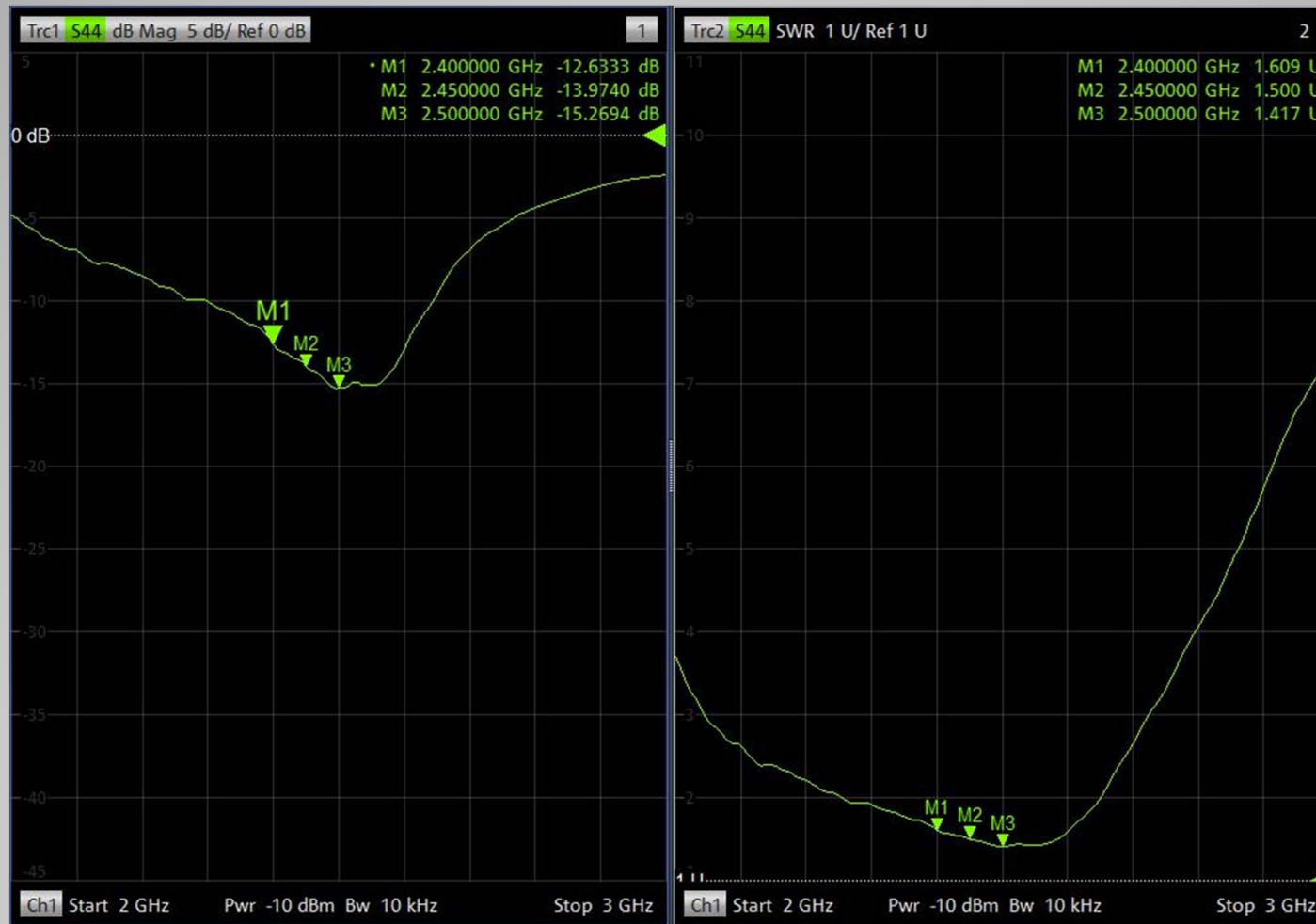
Created : 2017-07-20

Antenna & IR-Cut Solution Provider

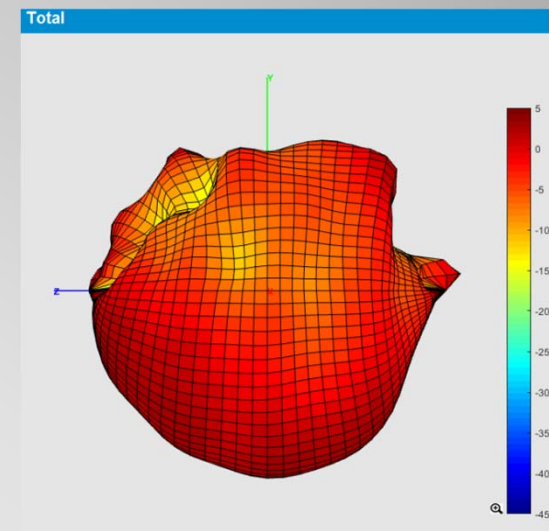
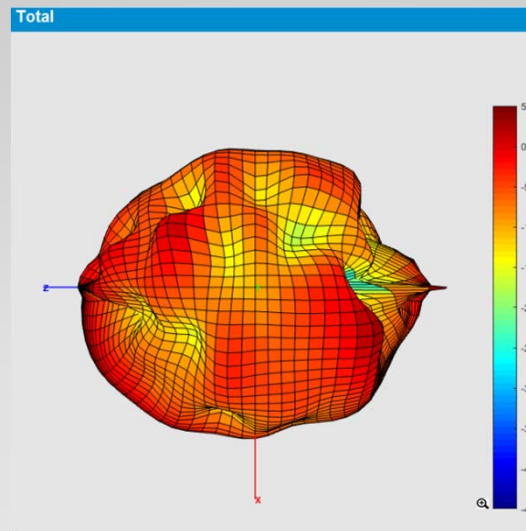
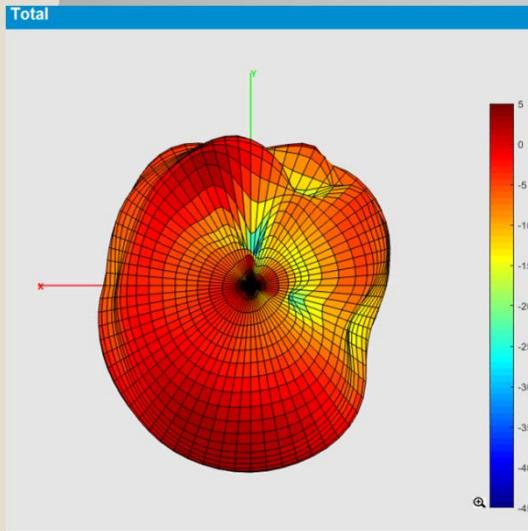
# Antenna Coordinate System Definition



# Return Loss

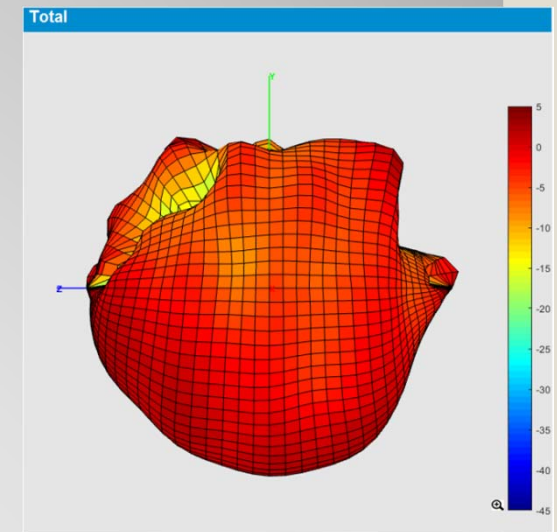
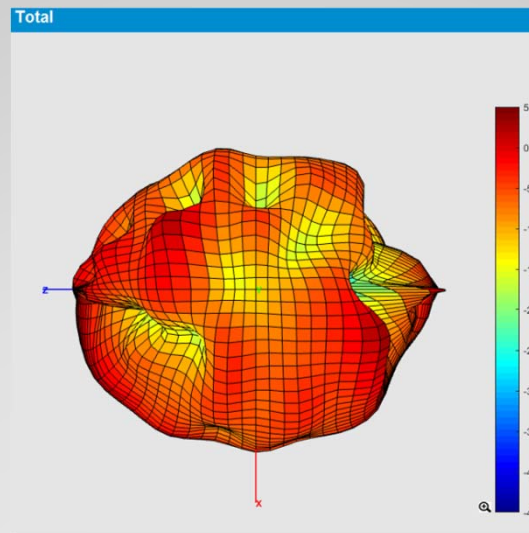
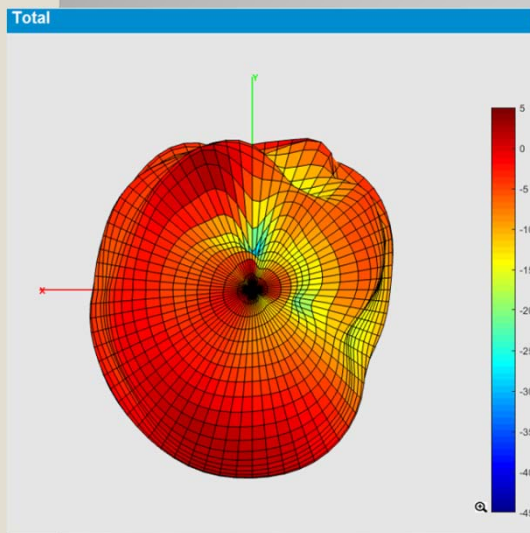


# 3D Radiation Patterns @2400MHz

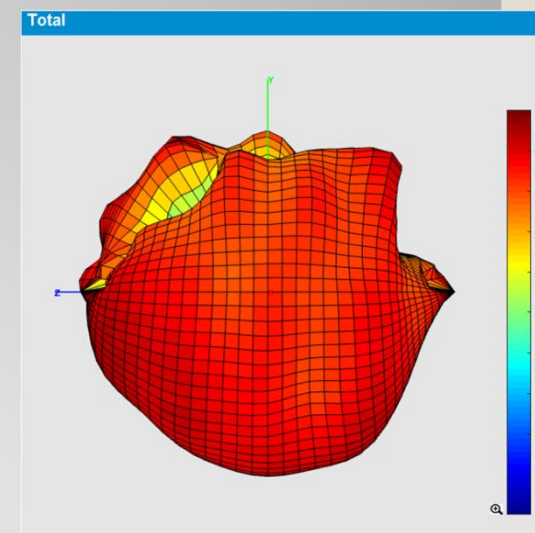
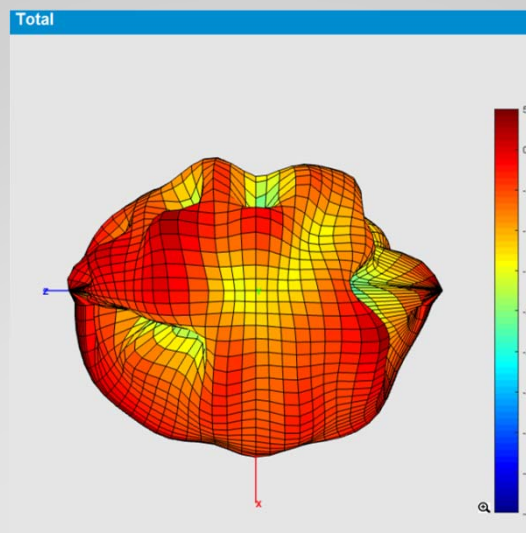
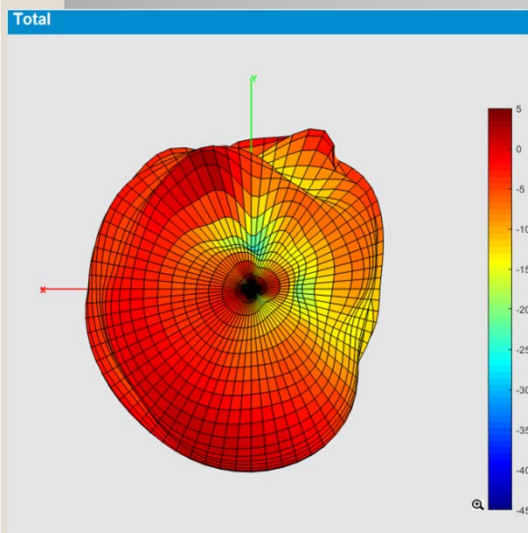




# 3D Radiation Patterns @2450MHz



# 3D Radiation Patterns @2500MHz



# Antenna Gain and Efficiency

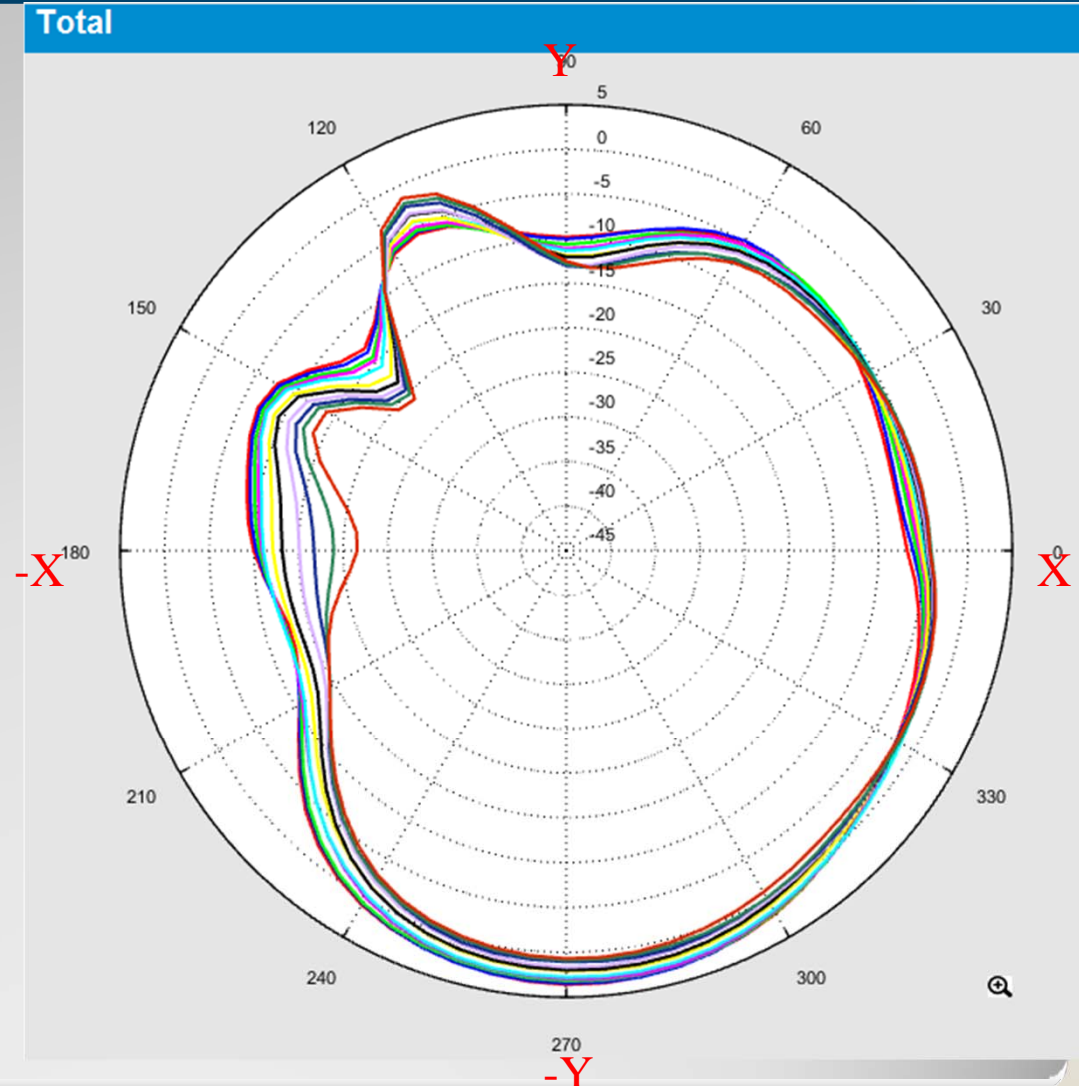


Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Directivity (dBi)	5.96	5.78	6.37	6.18	5.97	5.93	5.95	6.08	6.22	6.02	6.19
Efficiency (dB)	-2.91	-2.89	-2.77	-2.72	-2.43	-2.27	-2.55	-2.6	-2.62	-2.83	-2.86
Efficiency (%)	51.17	51.4	52.84	53.46	57.15	59.29	55.59	54.95	54.70	52.12	51.76
Gain (dBi)	3.05	2.89	3.6	3.46	3.54	3.66	3.4	3.48	3.6	3.19	3.33

# 2D Radiation Patterns@ XY-Plane



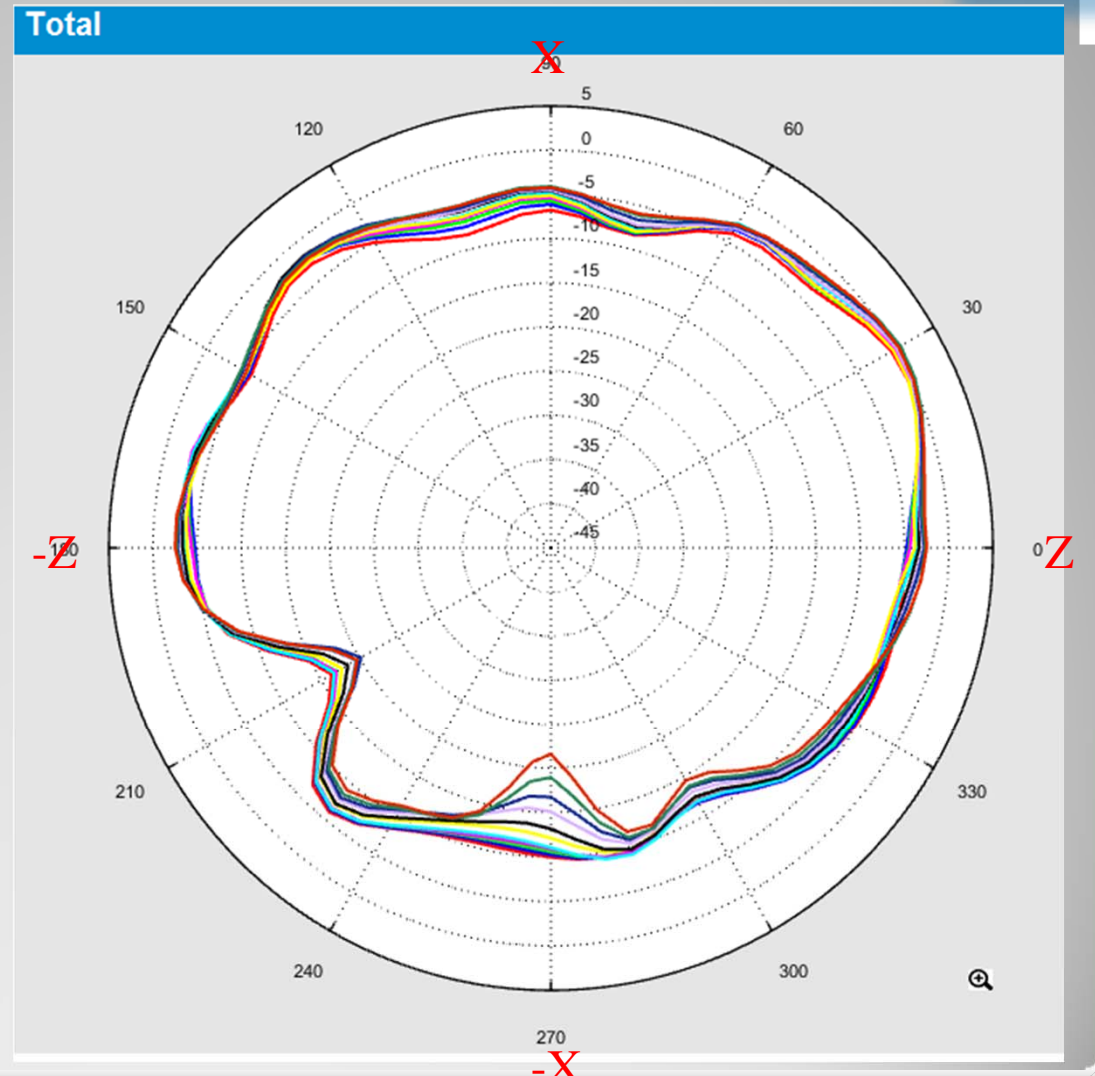
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<input checked="" type="checkbox"/>	2.41GHz	Blue
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<input checked="" type="checkbox"/>	2.43GHz	Magenta
<input checked="" type="checkbox"/>	2.44GHz	Cyan
<input checked="" type="checkbox"/>	2.45GHz	Yellow
<input checked="" type="checkbox"/>	2.46GHz	Black
<input checked="" type="checkbox"/>	2.47GHz	Purple
<input checked="" type="checkbox"/>	2.48GHz	Dark Blue
<input checked="" type="checkbox"/>	2.49GHz	Dark Green
<input checked="" type="checkbox"/>	2.5GHz	Dark Red



# 2D Radiation Patterns @ XZ-Plane



Choose	Freq. / Chan.	Color
<input checked="" type="checkbox"/>	2.4GHz	Red
<input checked="" type="checkbox"/>	2.41GHz	Blue
<input checked="" type="checkbox"/>	2.42GHz	Green
<input checked="" type="checkbox"/>	2.43GHz	Magenta
<input checked="" type="checkbox"/>	2.44GHz	Cyan
<input checked="" type="checkbox"/>	2.45GHz	Yellow
<input checked="" type="checkbox"/>	2.46GHz	Black
<input checked="" type="checkbox"/>	2.47GHz	Purple
<input checked="" type="checkbox"/>	2.48GHz	Dark Blue
<input checked="" type="checkbox"/>	2.49GHz	Dark Green
<input checked="" type="checkbox"/>	2.5GHz	Dark Red



# 2D Radiation Patterns @ YZ-Plane



Choose	Freq. / Chan.	Color
<input checked="" type="checkbox"/>	2.4GHz	Red
<input checked="" type="checkbox"/>	2.41GHz	Blue
<input checked="" type="checkbox"/>	2.42GHz	Green
<input checked="" type="checkbox"/>	2.43GHz	Magenta
<input checked="" type="checkbox"/>	2.44GHz	Cyan
<input checked="" type="checkbox"/>	2.45GHz	Yellow
<input checked="" type="checkbox"/>	2.46GHz	Black
<input checked="" type="checkbox"/>	2.47GHz	Purple
<input checked="" type="checkbox"/>	2.48GHz	Dark Blue
<input checked="" type="checkbox"/>	2.49GHz	Dark Green
<input checked="" type="checkbox"/>	2.5GHz	Dark Red

