

承認書

SPECIFICATION FOR APPROVAL

■樣品承認□新品承認□規格/材質變更承認

客戶名稱(Customer):	友達光電股份有限公司		
客戶料號(Customer P/N):	50.S3204.005		
產品料號(Product No.):	A8-A006-00739		
產品品名(Product Name) :	PCB 11a/b/g/n 1.02dBi/4.36dBi 41mmx7.8mm T0.8 BLACK OD1.13 low loss 380mm MHF plug(4L)		
文件編號(Approved No) :			
日期(Issued Date) :	2024 年 12 月 27 日		
客戶承認簽章 Customer Approval Signature	In Charge	Checked	Approval

 天凱科技股份有限公司 TSKY CO., LTD.

新竹縣竹北市自強南路8號21F-2 Tel:03-5502626 Fax:03-5503131
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業務	核准	審核	主辦員

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Specification

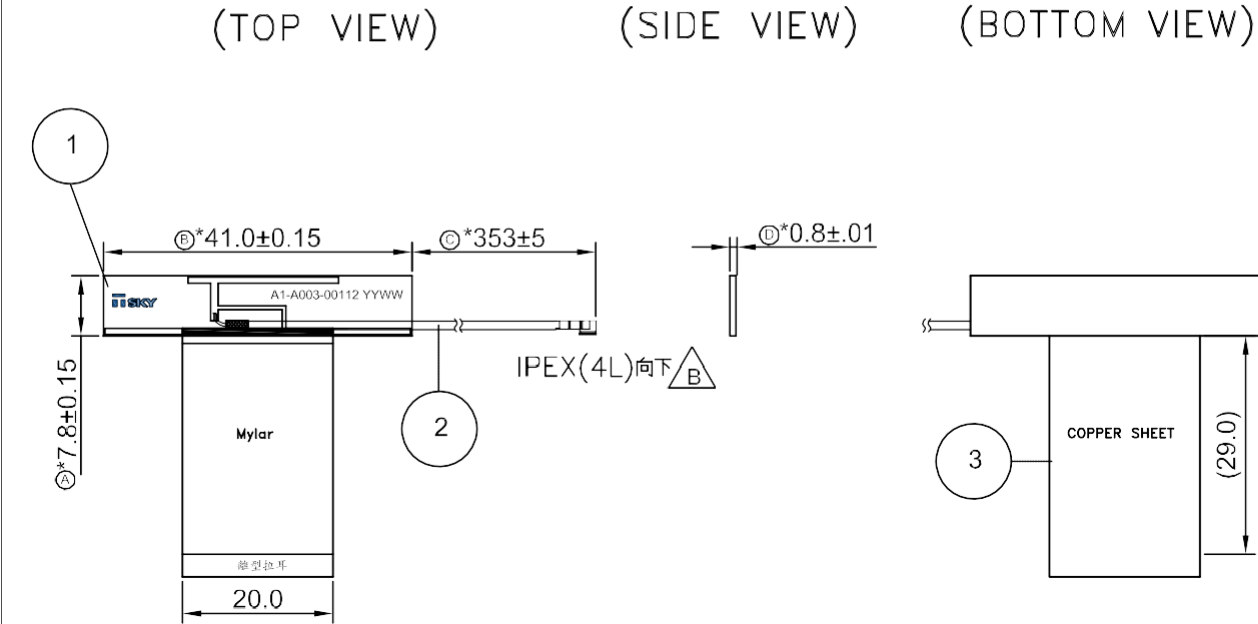
. Electrical Properties :

1. Frequency : 2400MHz-2500MHz / 5100MHz-5900MHz
2. Impedance : 50Ω
3. Peak Gain : 1.02dBi / 4.36dBi

. Physical Properties :

1. Material : FR-4 T=0.8mm
2. Cable : OD1.13 Low Loss
3. Connector : MHF PLUG(4L)

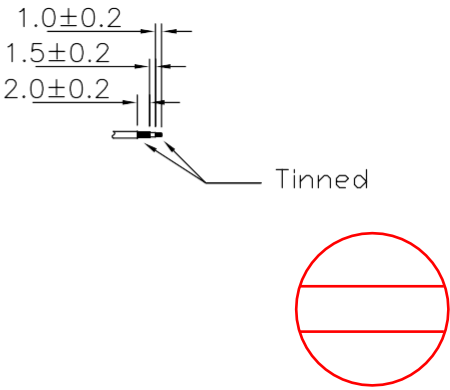
J		H		G		F		E		D		C		B		A	
												REV	ECN NO	DRAWING	DESCRIPTION	APPROVED	DATE
												A		Nydia	初版發行	Gary	2024/08/28
												B	20240021	Nydia	PCB/銅箔/端子方向變更	Gary	2024/10/08
												C	20240024	Nydia	銅箔上焊接處取消背膠	Gary	2024/11/01
												D	20240034	Nydia	Gain值變更為裸測值	Gary	2024/12/27



ELECTRICAL:
Frequency:2400MHz~2500MHz/5100MHz~5900MHz
Impedance:50Ω
△ Peak Gain:1.02dBi/4.36dBi
Return Loss: ≤ -6dB/-4dB

MECHANICAL:
Cable: D1.13 Low Loss BLACK L=380mm

- NOTE:
- 1.文字顏色為黑色
 - 2.*A~D為重點量測尺寸
 - 3.MHF 方向請按照圖面所示



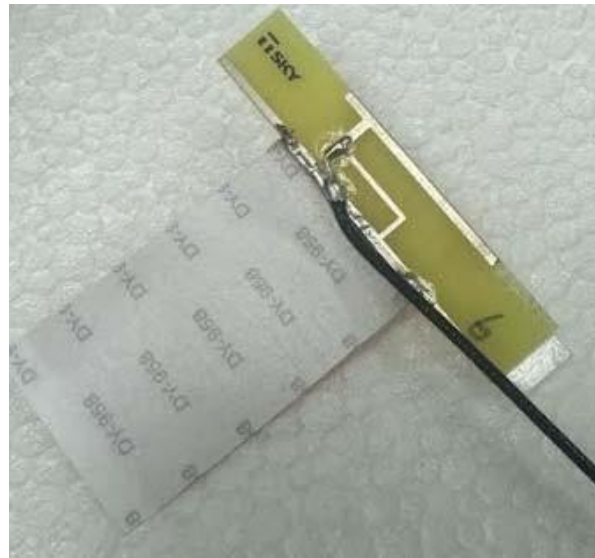
MHF compatible 方向控管	
線長	角度
1~150	±30°
151~200	±50°
201以上	不控管

C B B B	3	銅箔30x20mm背膠(導電膠) with Mylar 28x20mm	C	1
	2	RF CABLE OD1.13 LOW LOSS 380mm BLACK MHF compatible PLUG+2(銅)-1.5(絕)-1(芯),IPEX(4L)	B	1
	1	PCB ANT FR-4 L41 W7.8 T0.8mm 表面處理:單面化鋁 FOR AS-A006-00739	B	1
	NO.	DESCRIPTION	REV.	Q' TY
TOLERANCE UNLESS OTHERWISE SPECIFIED		TSKY CO., LTD.		INITIAL MODEL:
DIMENSION		ANGLES		D
.X±	0.2	X'±	0.5	
.XX±	0.1			
.XXX±	0.05			
		CONFIDENTIAL	FINISH:	PART NAME
			SIZE: A4	UNIT: mm
		DRAWING	DESIGNED	CONCURRED
		Nydia		APPROVED
				Gary
				PART NO. A8-A006-00739
				REV. D
				SHT. 1/1

PIFA Test Report

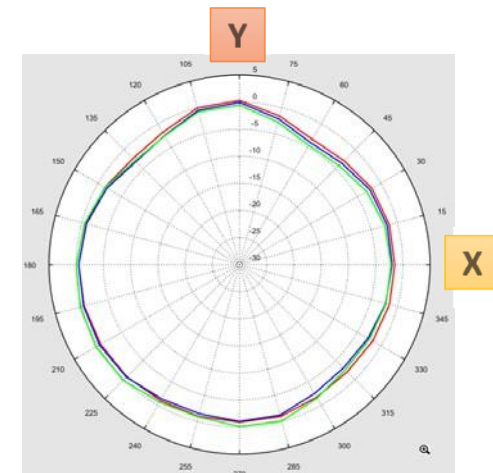
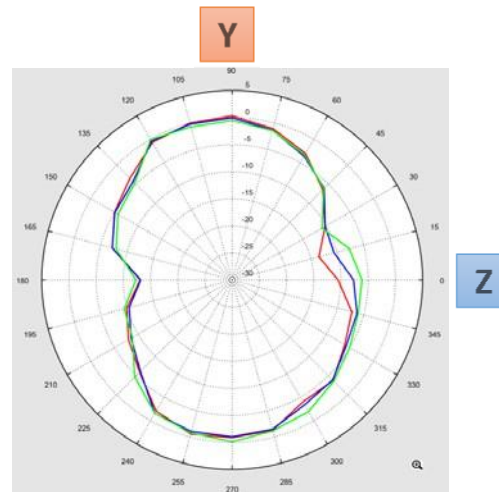
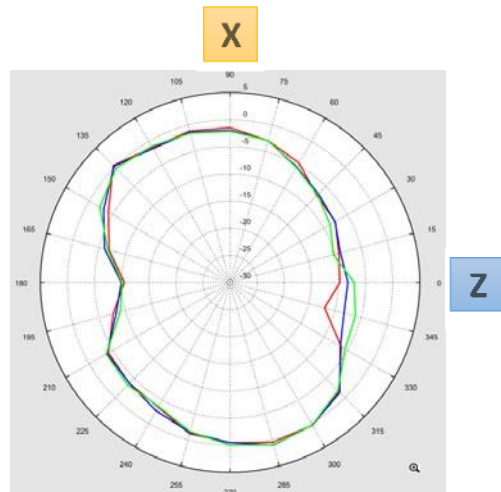
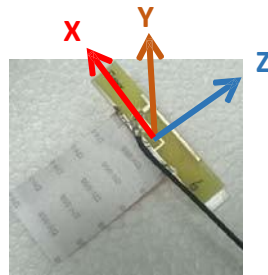
2024/08/06

Antenna Overview



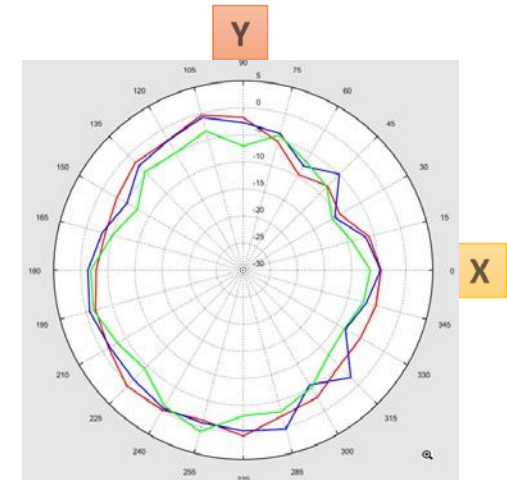
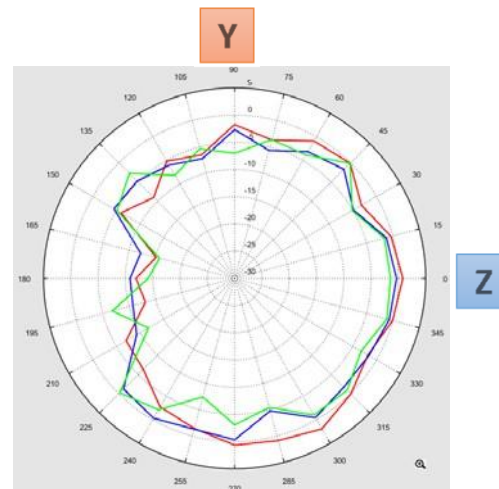
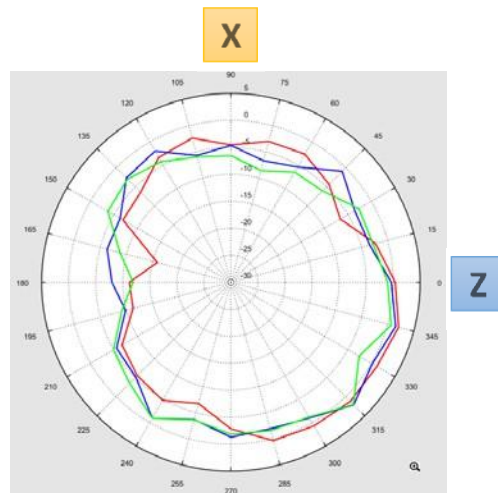
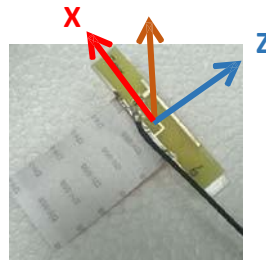
Antenna Gain Total (dBi) Pattern

2400 MHz —
2450 MHz —
2500 MHz —



Antenna Gain Total (dBi) Pattern

5100 MHz —
5500 MHz —
5900 MHz —



Antenna Efficiency & Peak Gain

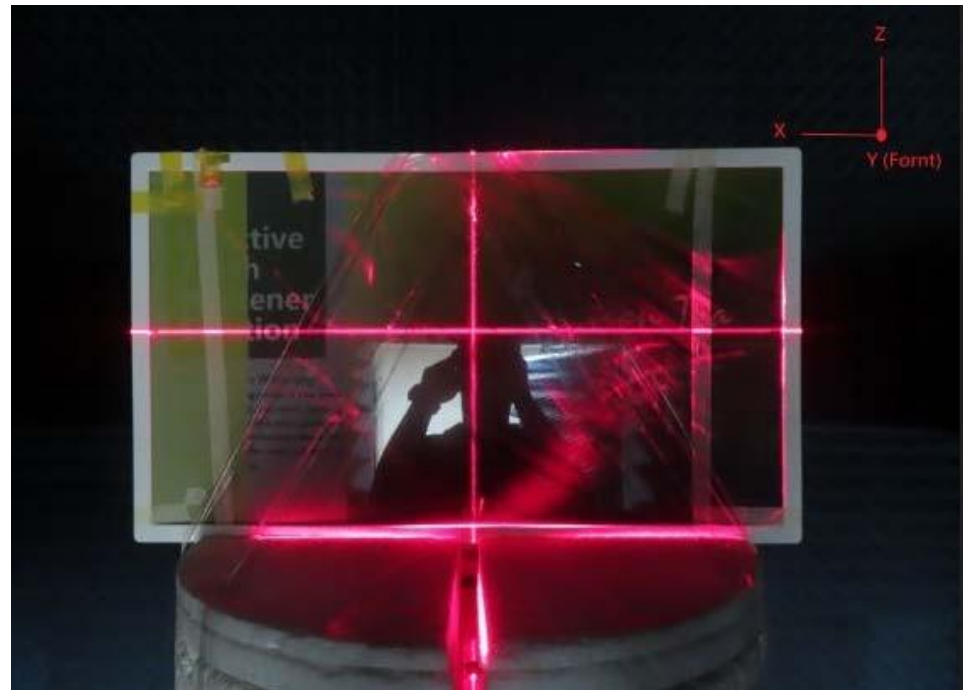
2.4GHz			
Frequency (MHz)	2400	2450	2500
Efficiency (%)	58.48	57.15	57.68
Peak Gain (dBi)	0.48	1.02	0.96

5GHz					
Frequency (MHz)	5100	5300	5500	5700	5900
Efficiency (%)	54.83	56.75	59.43	50.35	53.21
Peak Gain (dBi)	4.36	3.67	3.27	2.56	3.11

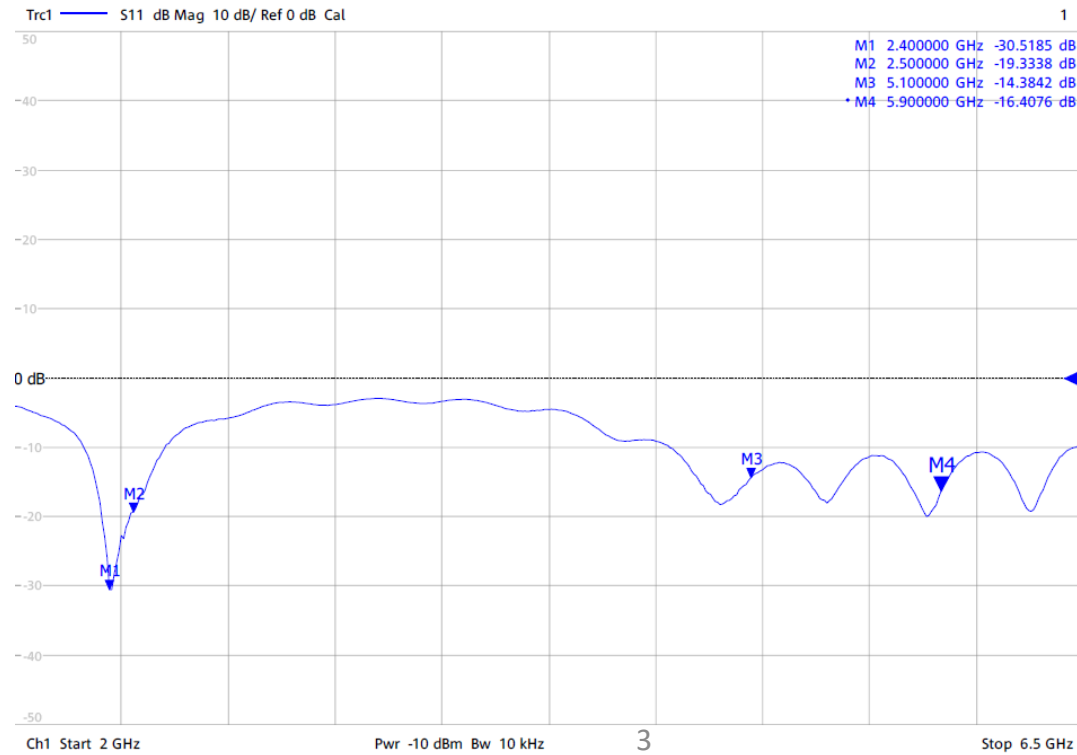
TV Dual Band Antenna Test Report

2024/08/27

Test Setting in Chamber



Antenna Return Loss



Antenna Pattern at horizontal Plane (X-Y)

