

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.S1301.001		
產品料號(Product No.):	A8-A006-00783		
產品品名(Product Name) :	FPCB 11a/b/g/n 47.8mmx37mm T0.13 BLACK OD1.13 LOW LOSS 310mm MHF Compatible PLUG(4L)		
文件編號(Approved No) :			
日期(Issued Date) :	2026 年 02 月 11 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

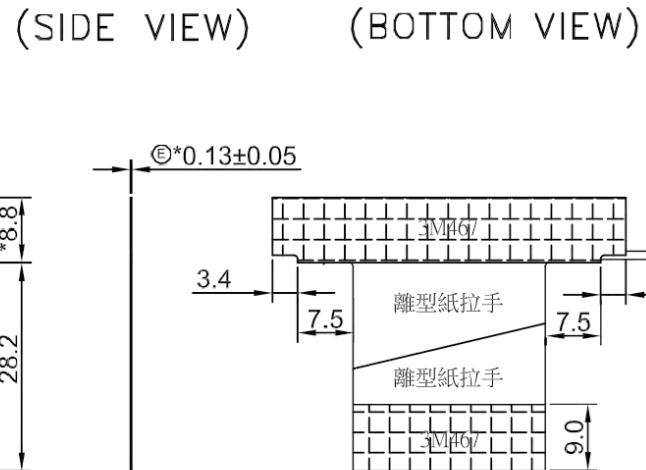
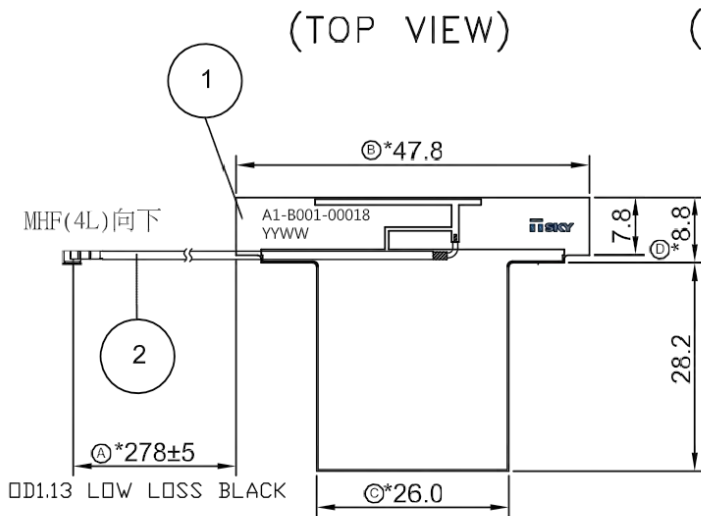
. Electrical Properties :

1. Frequency : 2400MHz-2500MHz
2. Impedance : 50Ω
3. Return Loss : $\leq$ -10dB

. Physical Properties :

1. Material : FPCB T=0.13mm
2. Connector : MHF PLUG(4L)
3. Antenna Type : PIFA

REV	ECN NO.	DRAWING	DESCRIPTION	APPROVED	DATE
A		Nydia	初次發行	Gary	2026/01/15



Frequency:2400MHz~2500MHz/5100MHz~5900MHz

Impedance: 50Ω

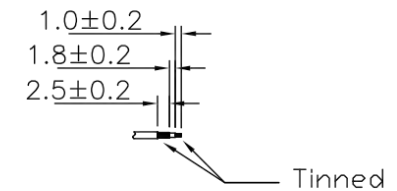
Return Loss: ≤ -10 dB

MECHANICAL:

Cable: D1.13 Low Loss BLACK L=310mm

NOTE:

- 1.文字顏色為白色
- 2.*A~E為重點量測尺寸
- 3.MHF 方向請按照圖面所示
- 4.YYWW為date code，會隨著生產週期產生序號



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

2	RF CABLE OD1.13 LOW LOSS 310mm BLACK MHF compatible PLUG+2.5(編)-1.8(絶)-1(芯),MHF(4L)										A	1
1	FPC 47.8mmx37mm 0.13T FOR A8-A006-00783										A	1
NO.	DESCRIPTION										REV.	Q' TY
TOLERANCE UNLESS OTHERWISE SPECIFIED				TSKY CO., LTD.						INITIAL MODEL:		
DIMENSION		ANGLES		CONFIDENTIAL	FINISH:			PART NAME				
.X±	0.2	X.°±	0.5		SIZE: A4	UNIT: mm	SCALE: 1:1	FPCB 11a/b/g/n 47.8mmx37mm T0.13 BLACK OD1.13 LOW LOSS 310mm MHF Compatible PLUG(4L)				
.XX±	0.1			DRAWING	DESIGNED	CONCURRED	APPROVED					
.XXX±	0.05			Nydia			Gary	PART NO. A8-A006-00783	REV. A	SHT. 1/1		

天凱科技股份有限公司

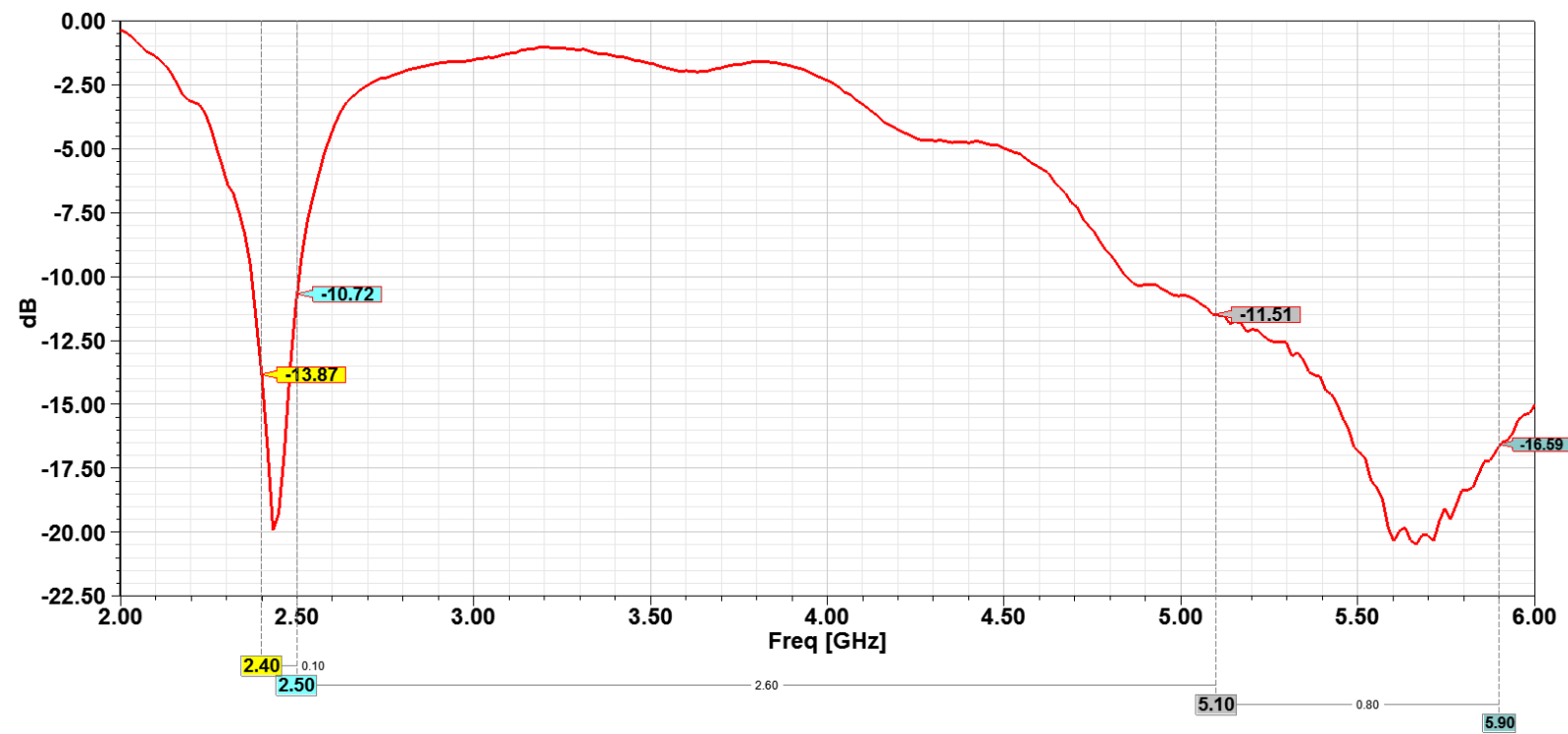
FPC Naked Antenna Test Report

2025/12/11

Antenna

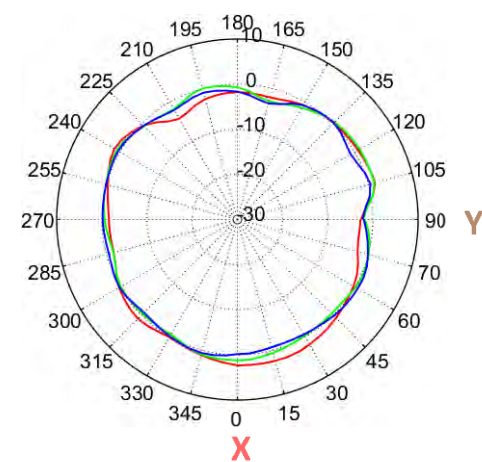
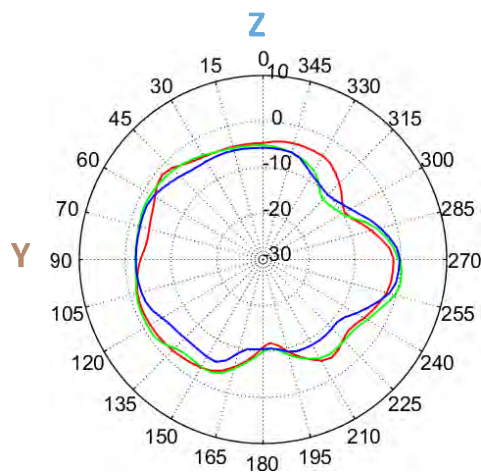
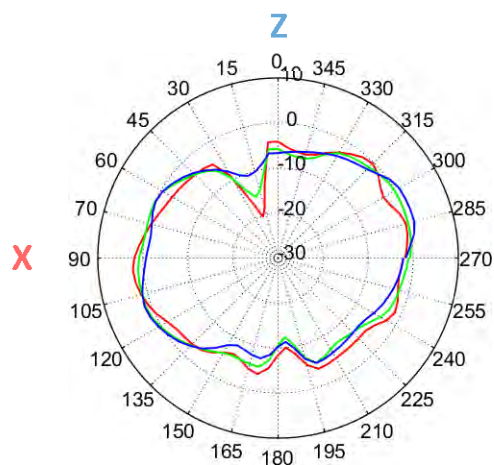
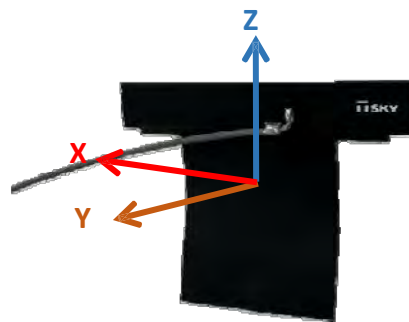


Antenna Return Loss



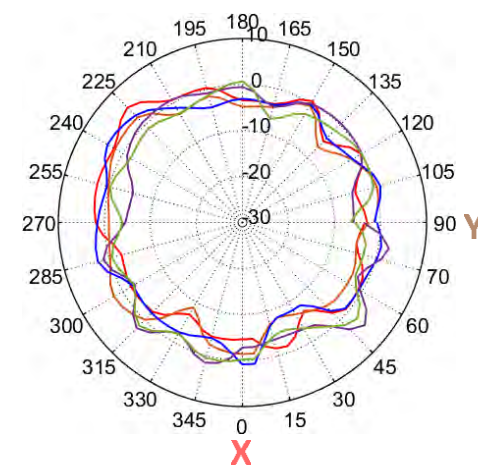
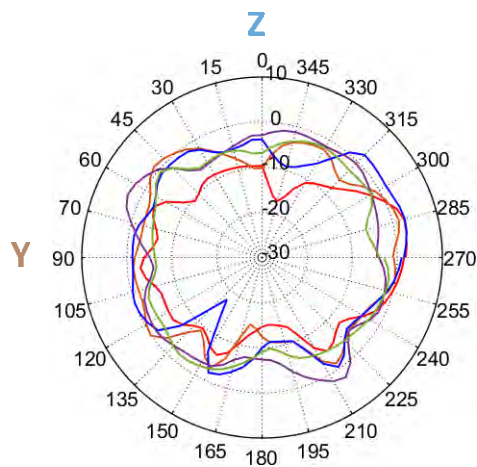
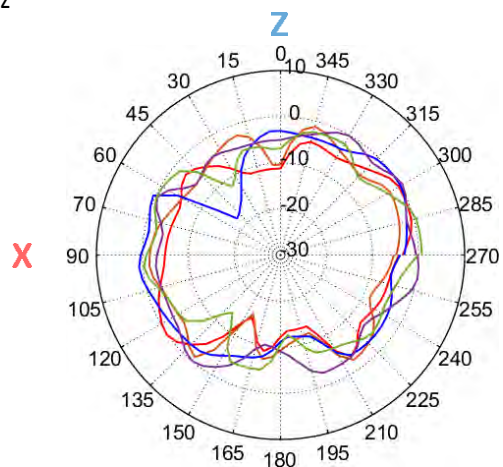
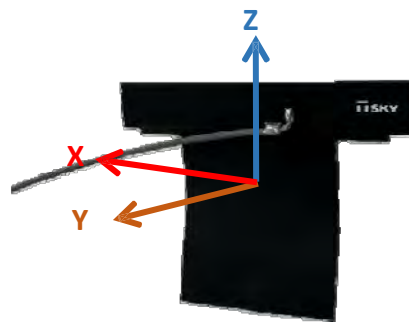
WiFi_Ant Gain Total (dBi) Pattern

2400 MHz —
2450 MHz —
2500 MHz —



WiFi_Ant Gain Total (dBi) Pattern

5100 MHz —
5300 MHz —
5500 MHz —
5700MHz —
5900MHz —



Antenna Efficiency & Peak Gain

2.4GHz			
Frequency (MHz)	2400	2450	2500
Efficiency (%)	54.7	58.98	54.06
Peak Gain (dBi)	2.06	2.19	2.4