

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):	正基科技股份有限公司		
客戶料號(Customer P/N):			
產品料號(Product No.):	A8-A006-00XXX		
產品品名(Product Name):	PCB 11a/b/g/n 1.02dBi/4.36dBi 41mmx7.8mm T0.8 BLACK OD1.13 low loss 470mm MHF plug(4L)		
文件編號(Approved No):			
日期(Issued Date):	2024 年 08 月 09 日		
客戶承認簽章 Customer Approval Signature	In Charge	Checked	Approval

TSKY™ 天凱科技股份有限公司 TSKY CO., LTD.

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業務	核准	審核	主辦員

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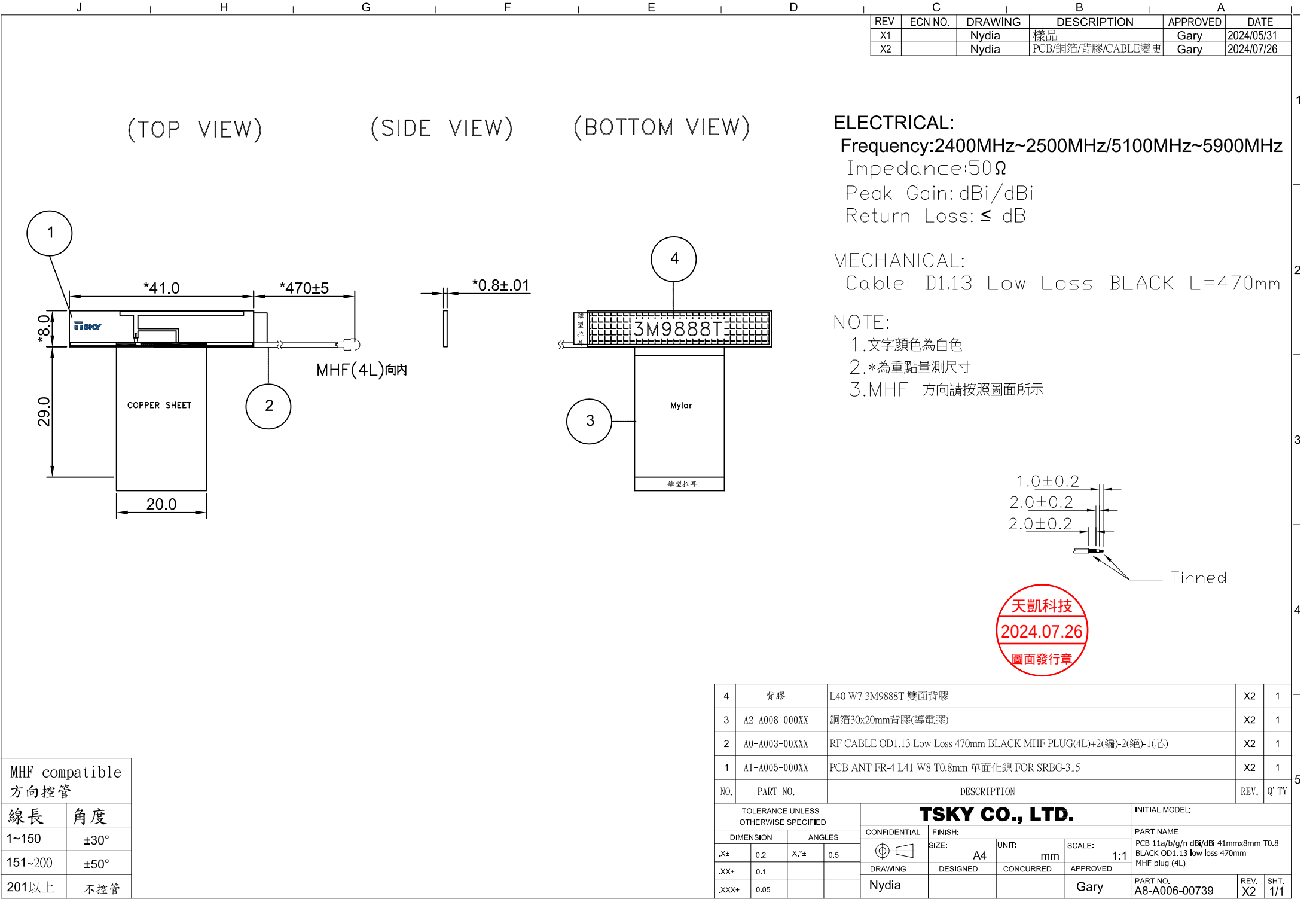
Specification

- **Electrical Properties :**

1. Frequency : 2400MHz-2500MHz / 5100MHz-5900MHz
2. Impedance : 50Ω
3. Return Loss : $\leq$ -10dB
4. 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)



REV	ECN NO.	DRAWING	DESCRIPTION	APPROVED	DATE
X1		Nydia	樣品	Gary	2024/05/31
X2		Nydia	PCB/銅箔/背膠/CABLE變更	Gary	2024/07/26

ELECTRICAL:
Frequency:2400MHz~2500MHz/5100MHz~5900MHz
Impedance:50Ω
Peak Gain:dBi/dBi
Return Loss: ≤ dB

MECHANICAL:
Cable: D1.13 Low Loss BLACK L=470mm

- NOTE:**
- 1.文字顏色為白色
 - 2.*為重點量測尺寸
 - 3.MHF 方向請按照圖面所示



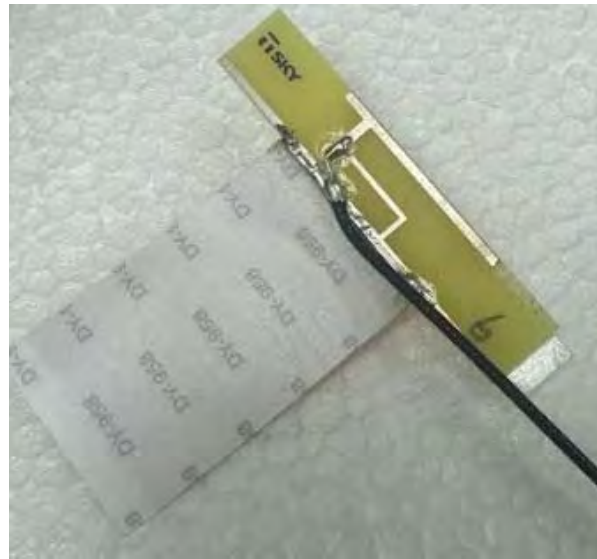
MHF compatible 方向控管	
線長	角度
1~150	±30°
151~200	±50°
201以上	不控管

4	背膠	L40 W7 3M9888T 雙面背膠	X2	1
3	A2-A008-000XX	銅箔30x20mm背膠(導電膠)	X2	1
2	A0-A003-00XXX	RF CABLE OD1.13 Low Loss 470mm BLACK MHF PLUG(4L)+2(編)-2(絕)-1(芯)	X2	1
1	A1-A005-000XX	PCB ANT FR-4 L41 W8 T0.8mm 單面化鍍 FOR SRBG-315	X2	1
NO.	PART NO.	DESCRIPTION	REV.	Q' TY
TOLERANCE UNLESS OTHERWISE SPECIFIED		TSKY CO., LTD.		INITIAL MODEL:
DIMENSION		CONFIDENTIAL	FINISH:	PART NAME
.X±	0.2	X.*±	0.5	PCB 11a/b/g/n dBi/dBi 41mmx8mm T0.8
.XX±	0.1			BLACK OD1.13 low loss 470mm
.XXX±	0.05			MHF plug (4L)
		DRAWING	DESIGNED	CONCURRED
		Nydia		Gary
				SCALE: 1:1
				APPROVED
				REV. X2
				SHT. 1/1
				PART NO. A8-A006-00739

PIFA Test Report

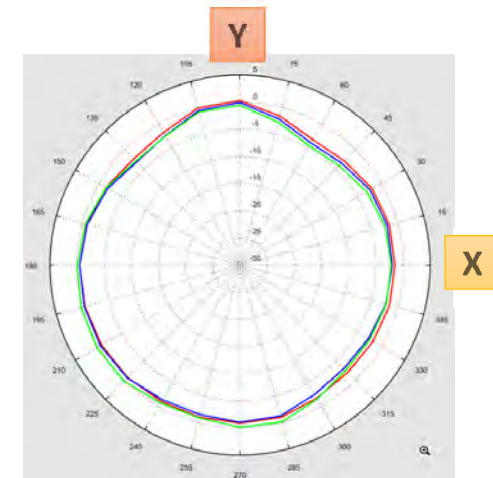
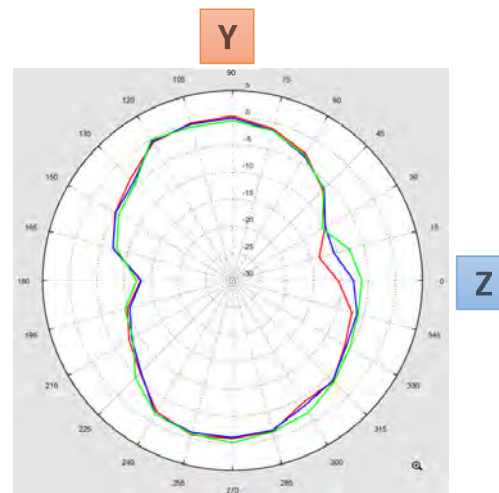
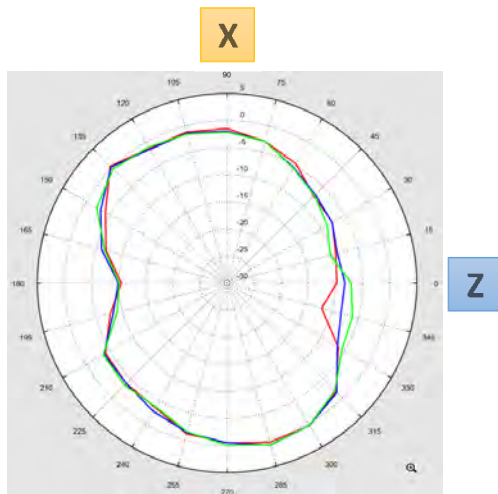
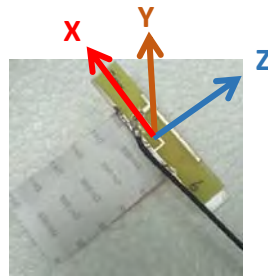
2024/08/06

Antenna Overview



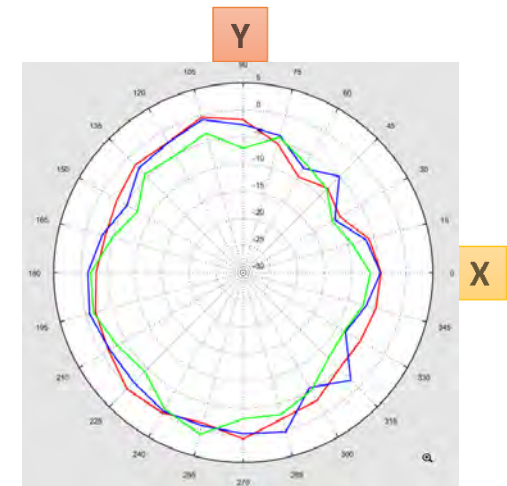
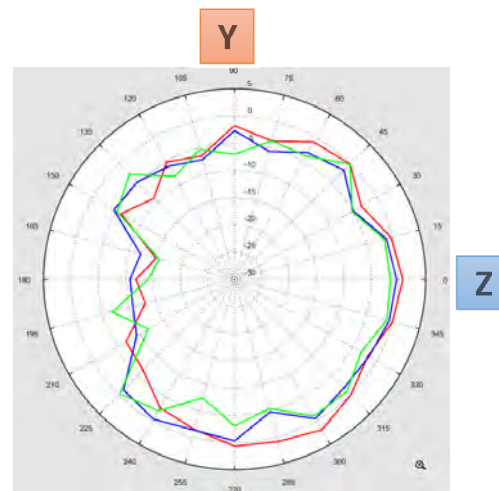
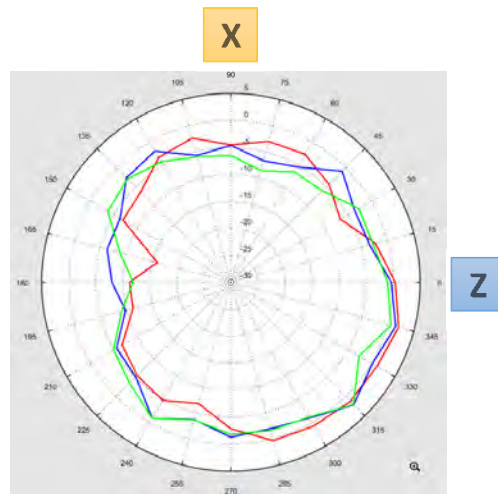
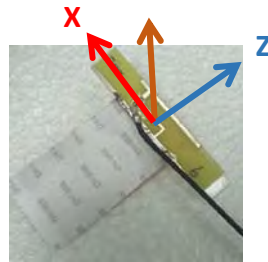
Antenna Gain Total (dBi) Pattern

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