



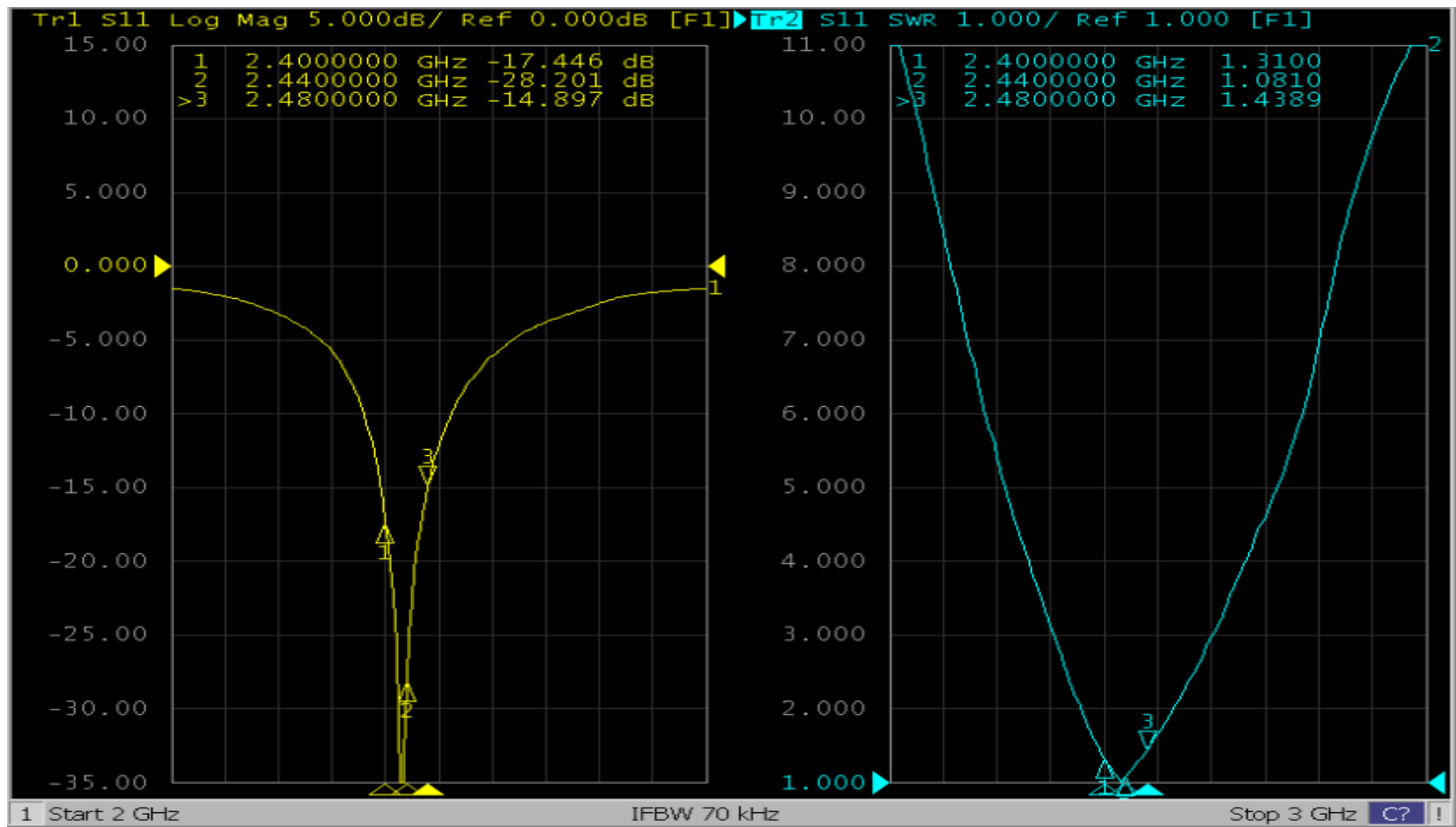
群光重慶 WIFI Antenna 【RG-2410(MCR2413 dongle)】 Project

Date 2024/11/22
Author Nick

Environment

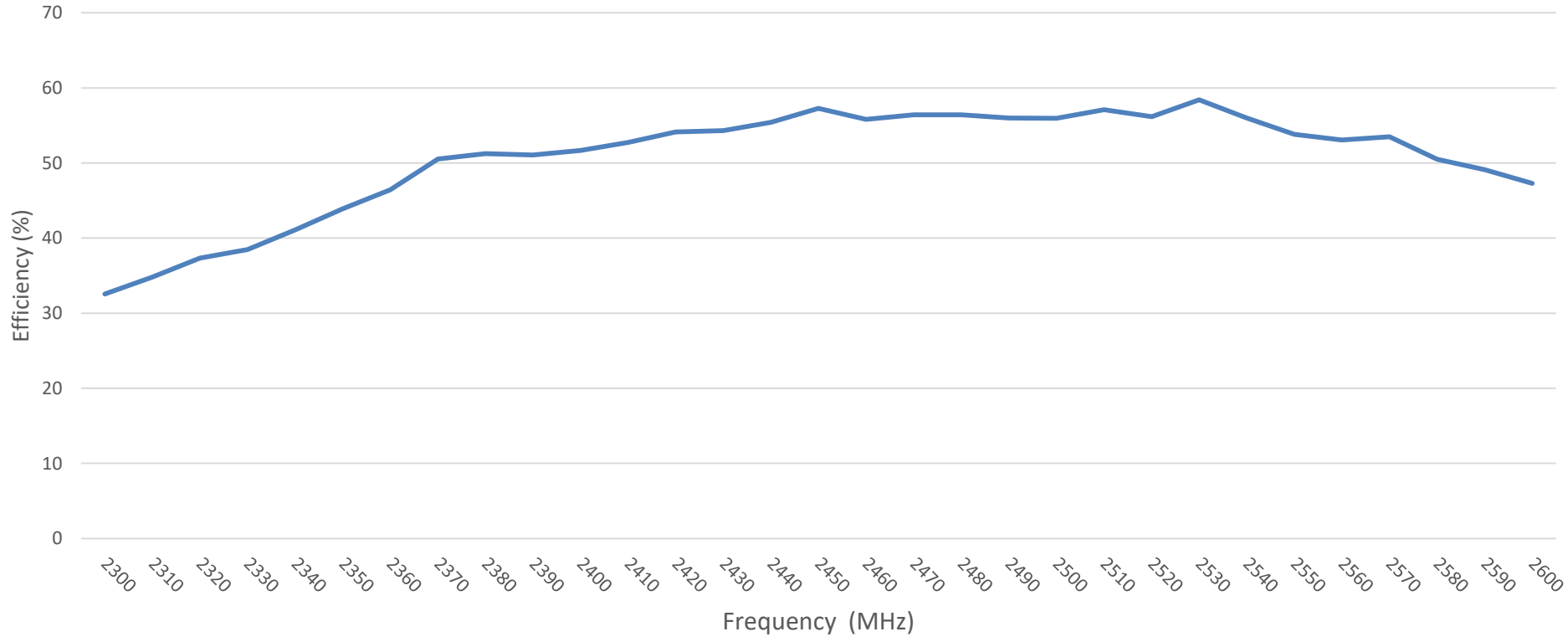


Antenna S11



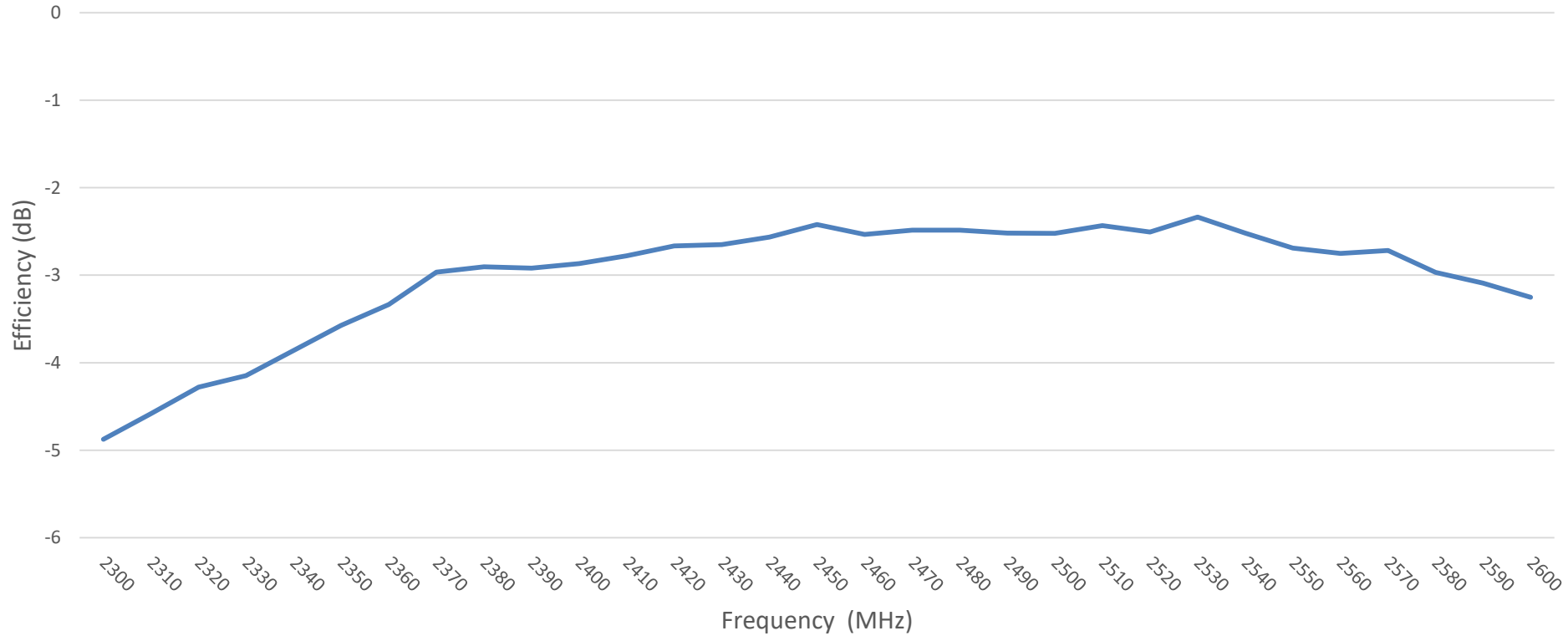
	2400 MHz	2440 MHz	2480 MHz
S11 (dB)	-17.46	-28.2	-14.8
VSWR	1.31	1.08	1.43

Antenna Efficiency



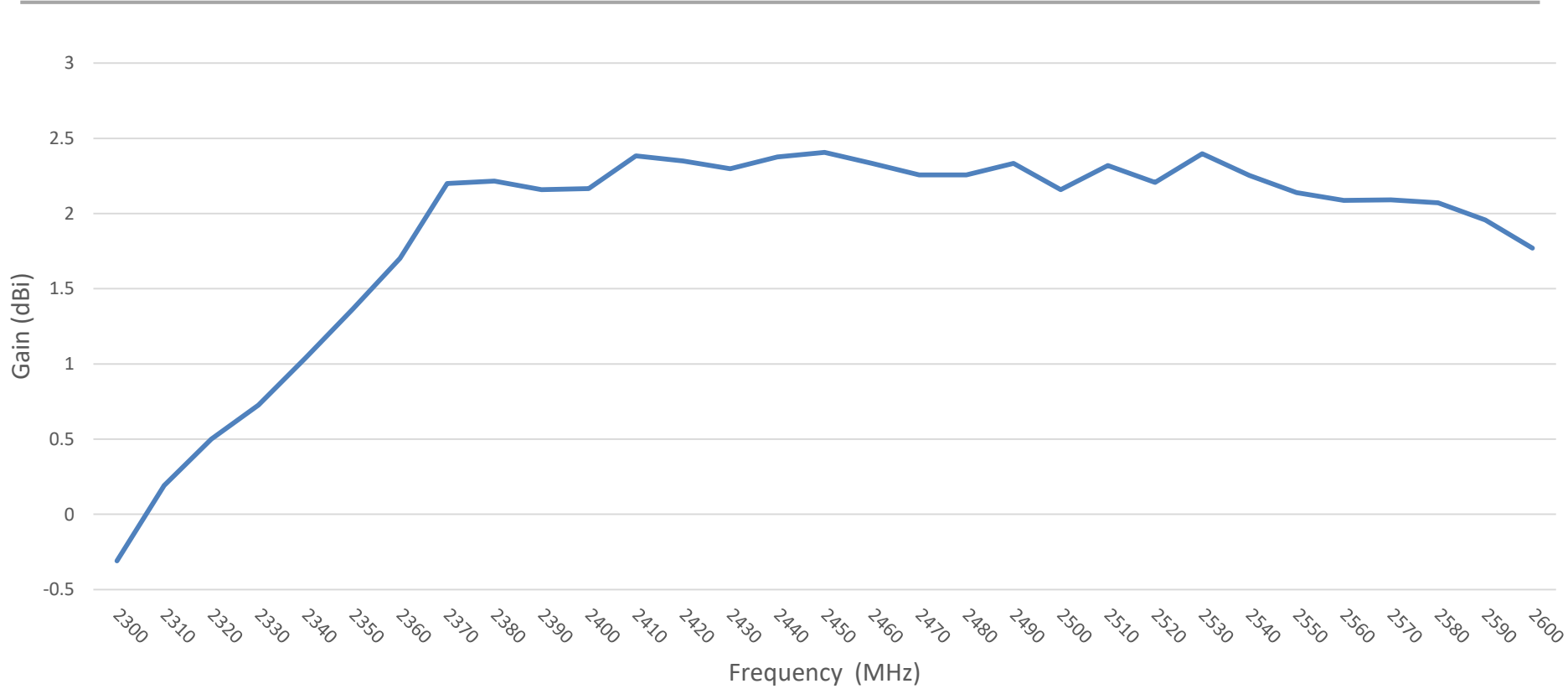
Frequency (MHz)	2400	2440	2480
DCAJ0S10	51.65	55.41	56.43

Antenna Average Gain



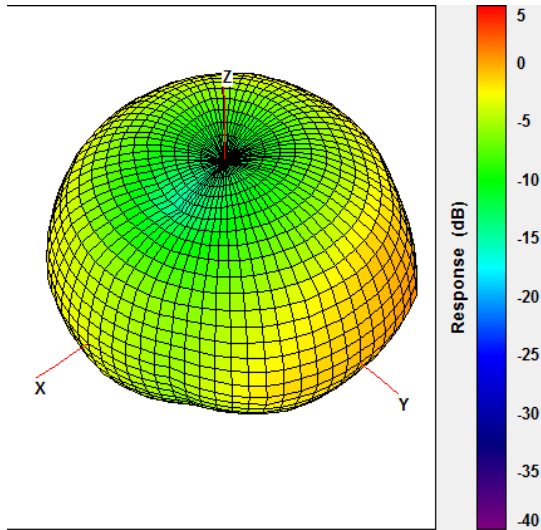
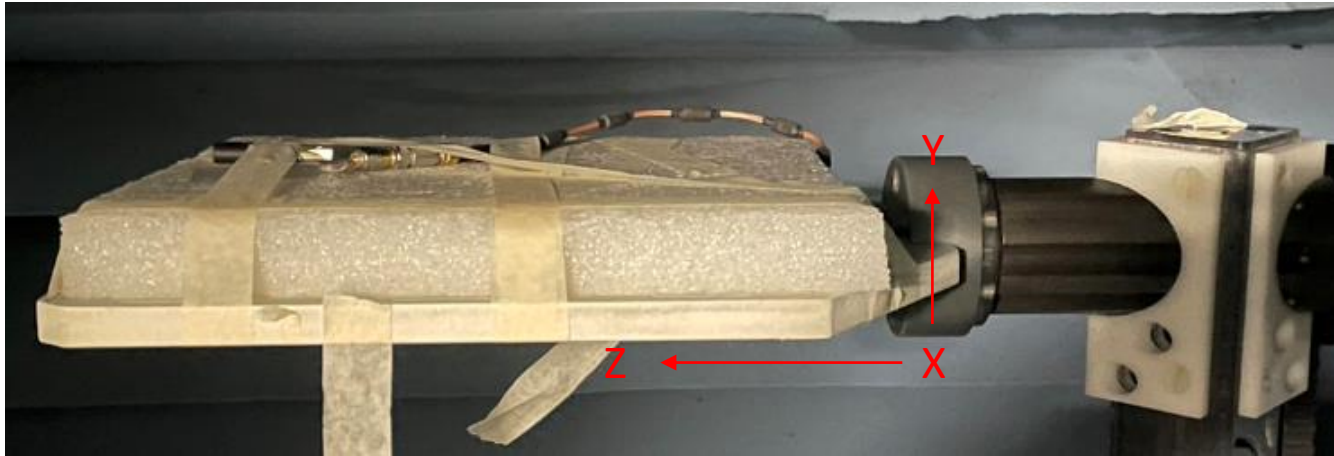
Frequency (MHz)	2400	2440	2480
DCAJ0S10	-2.86	-2.56	-2.48

Antenna Peak Gain

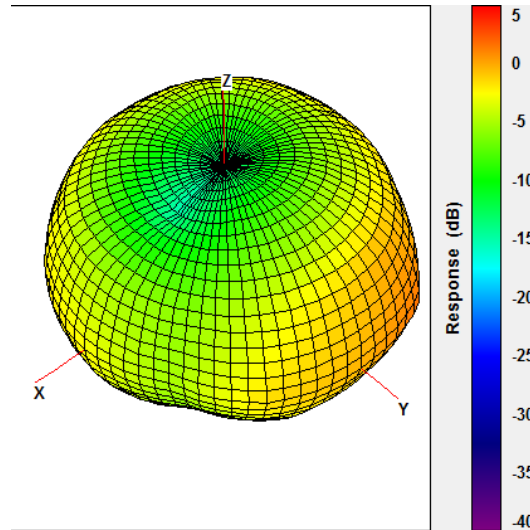


Frequency (MHz)	2400	2440	2480
DCAJ0S10	2.16	2.37	2.25

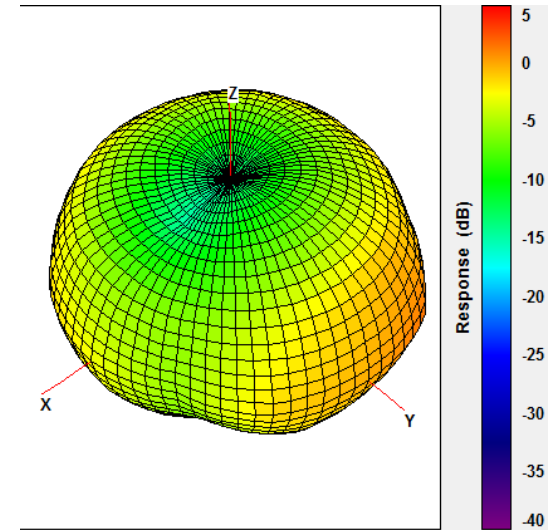
Antenna 3D Pattern



2400MHz

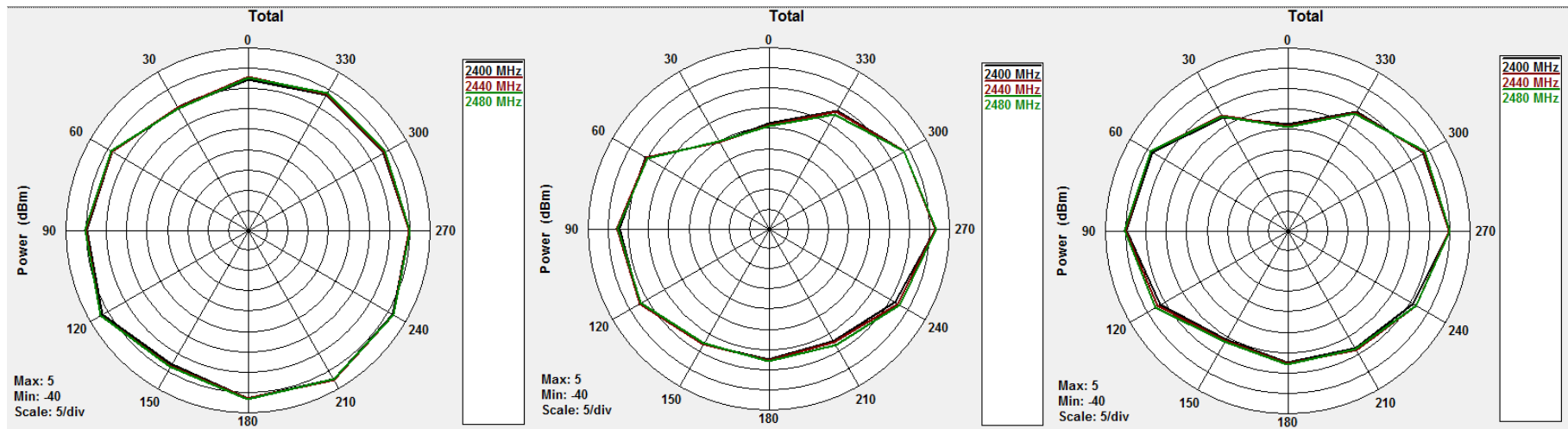
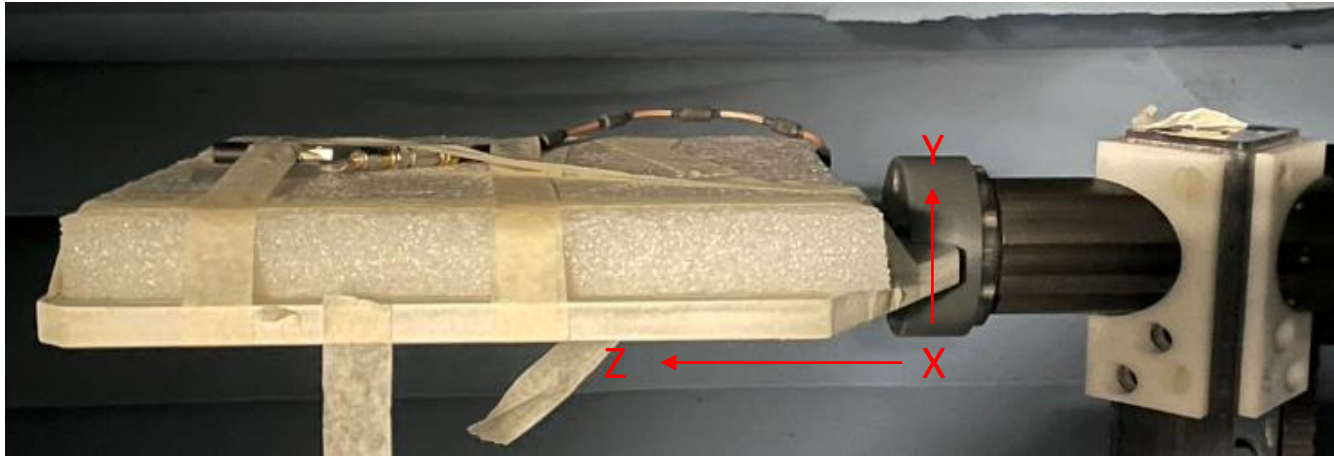


2440MHz



2480MHz

Antenna 2D Pattern

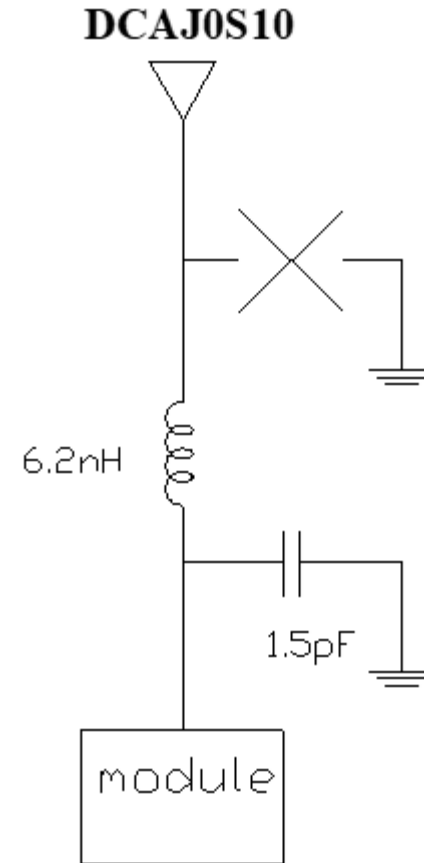
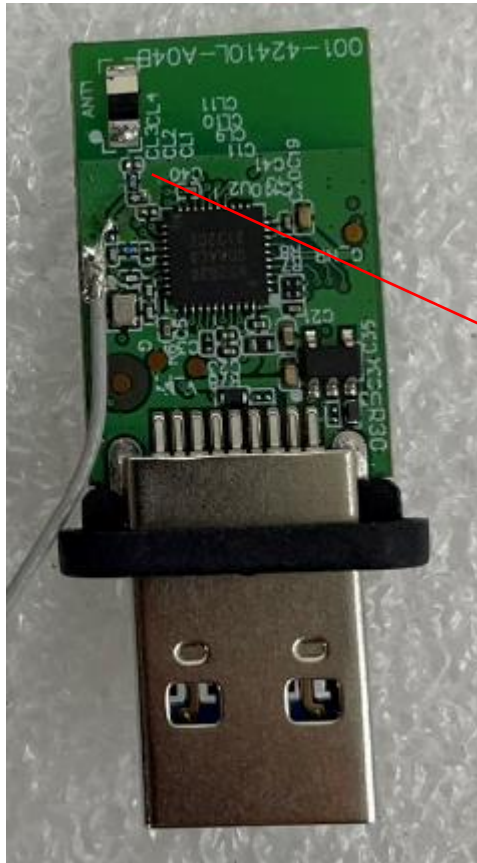


XY-Plane

XZ-Plane

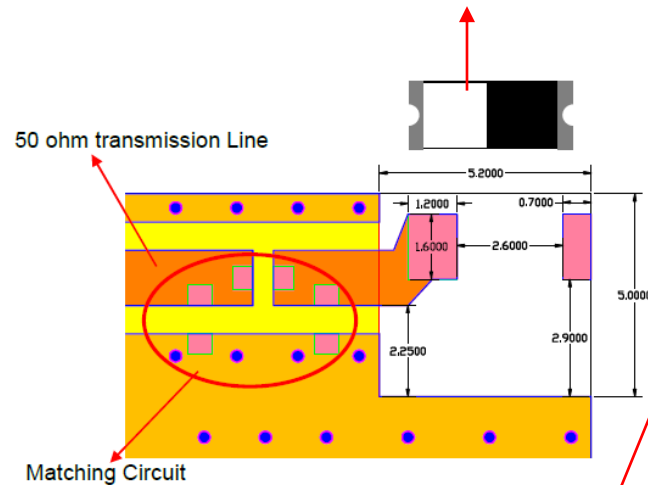
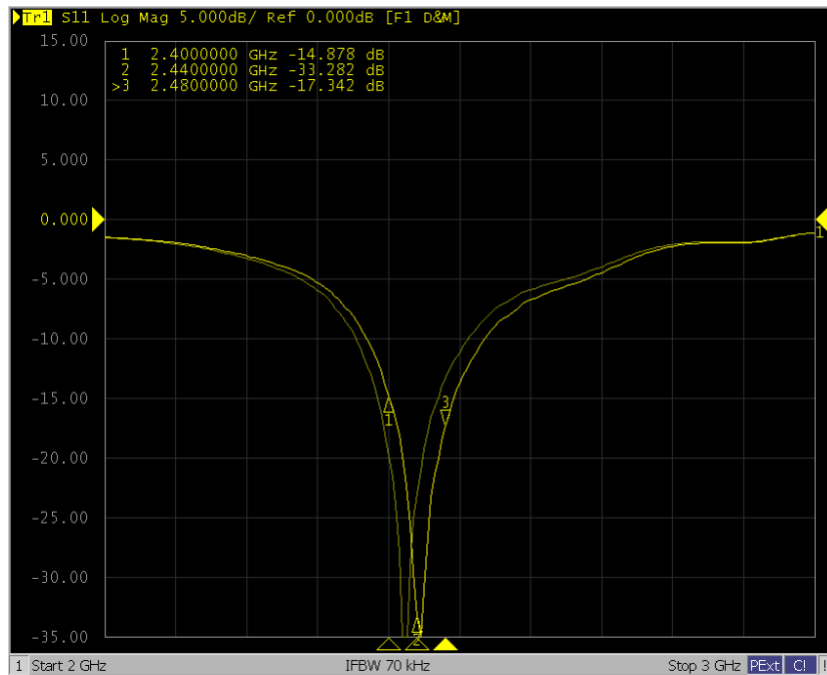
YZ-Plane

Matching Circuit



Summary

1. 依客戶提供樣機調測天線
2. DCAJ0S10天線效率約51%~57%
3. 根據收到的樣機，我們發現天線放置方向顛倒。以下圖表為S11的天線翻轉比較，雖然天線的兩面皆可使用，但依據 DCAJ0S10規格書，我們還是建議設定白色面為Feed In
4. 其餘特性如上述報告所示，供客戶參考。 規格書建議擺放方式



擺放顛倒

