

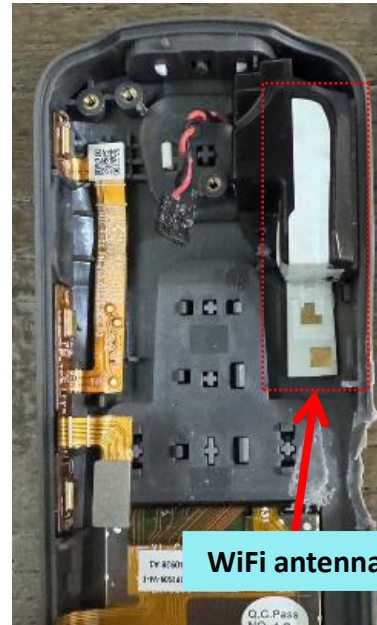
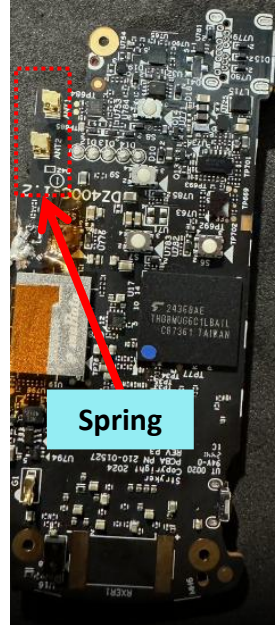
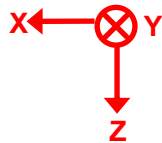
Stryker Macaw Antenna Test Report

Nov. 21, 2024

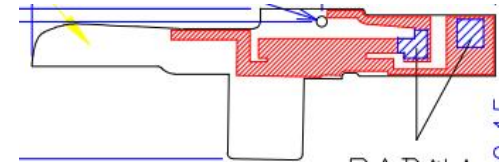
Carl Hung

Antenna Design Department

Antenna Structure & Placement

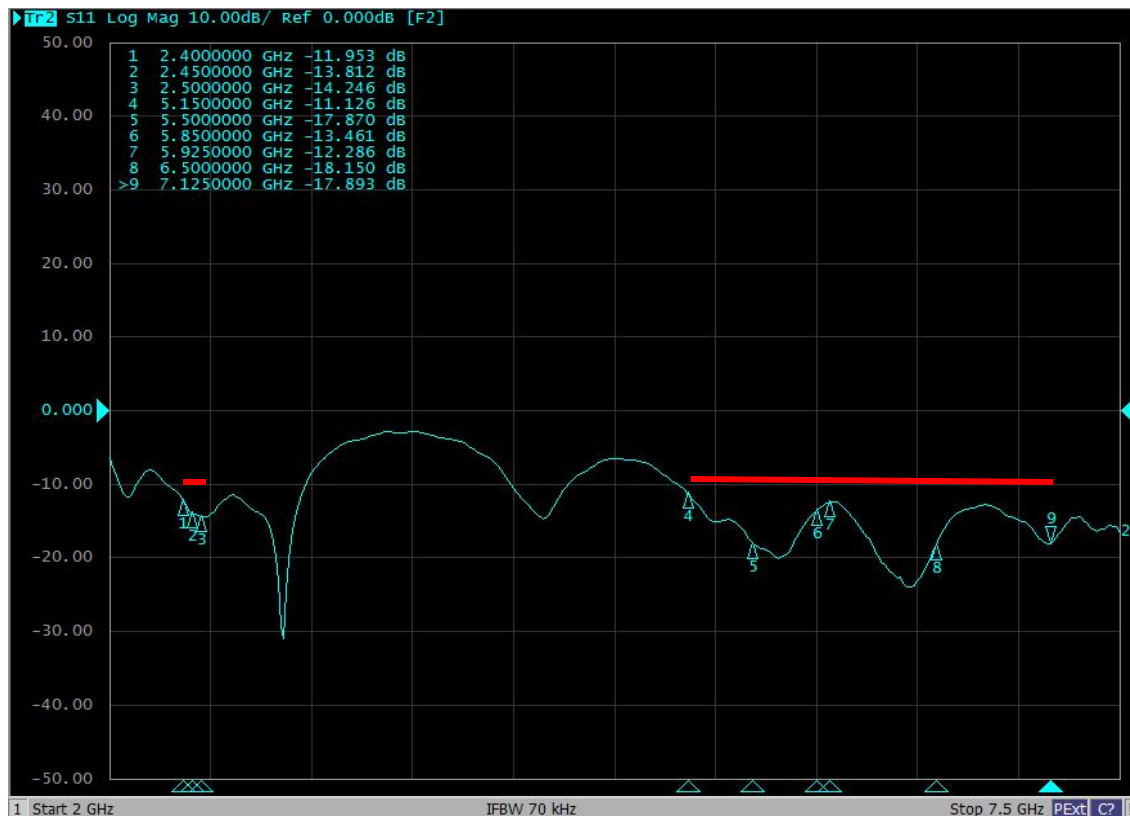


Antenna Structure
(P3)



Ant No.	Operating Band	Type	Material	Feeding	Dimension
WiFi 2.4G/5G/6G	2400 MHz ~ 2500 MHz 5150 MHz ~ 5850 MHz 5925 MHz ~ 7125 MHz	PIFA	FPCB	Trace & Spring	43.18(L) x 18.78(W) x 0.18(T) mm ³

P3 - Return Loss

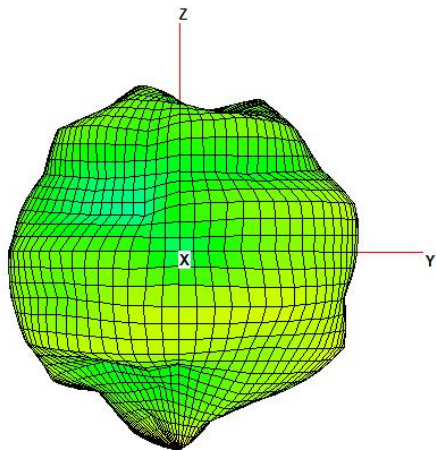
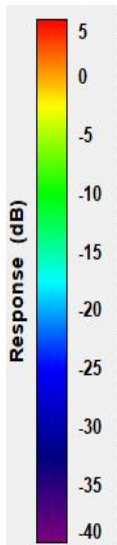


P3 - Peak Gain & Efficiency

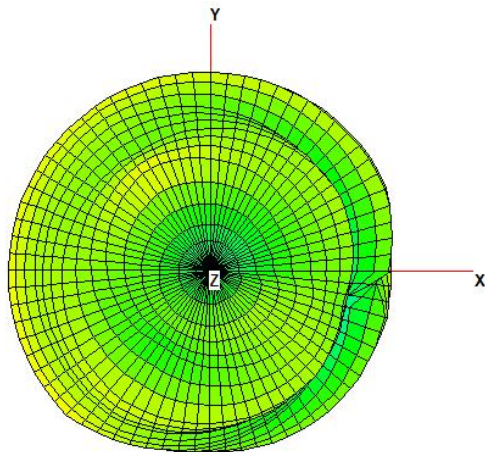
	P3	
Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	51.6	2.57
2450	52.1	2.76
2500	52.3	2.68
5150	45.1	2.01
5500	46.6	2.27
5850	52.6	2.95
5925	52.9	3.04
6500	51.5	2.82
7125	50.4	2.72

Efficiency Spec :
>50% @ 2.4G
>45% @ 5G/6G

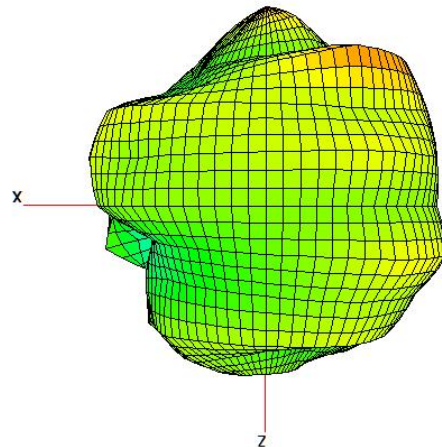
Radiation Pattern @ WiFi 2450 MHz



ZY-plane



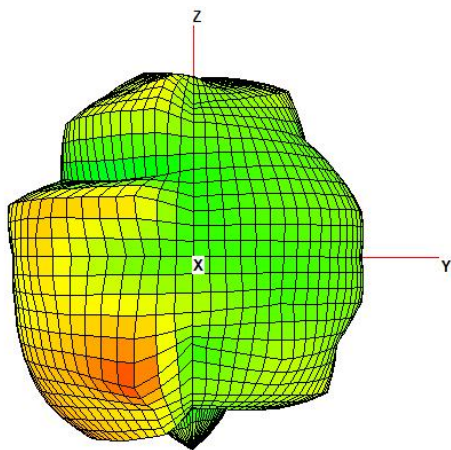
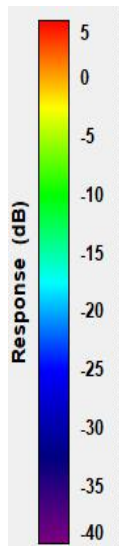
XY-plane



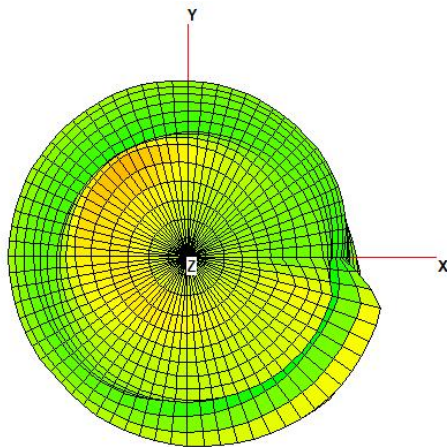
ZX-plane



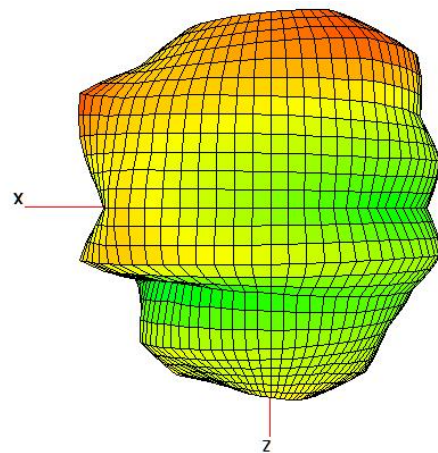
Radiation Pattern @ WiFi 5500 MHz



ZY-plane



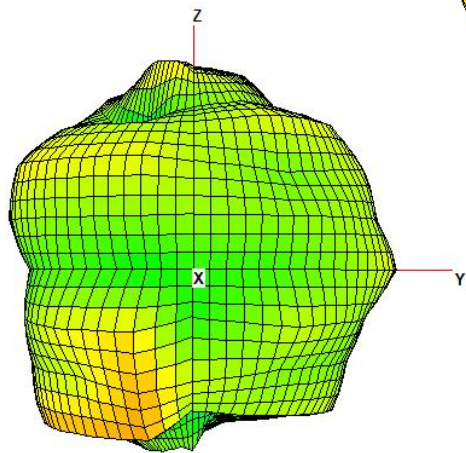
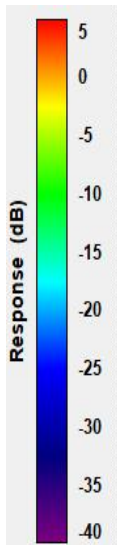
XY-plane



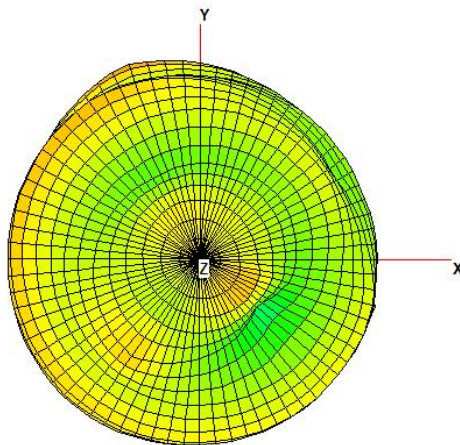
ZX-plane



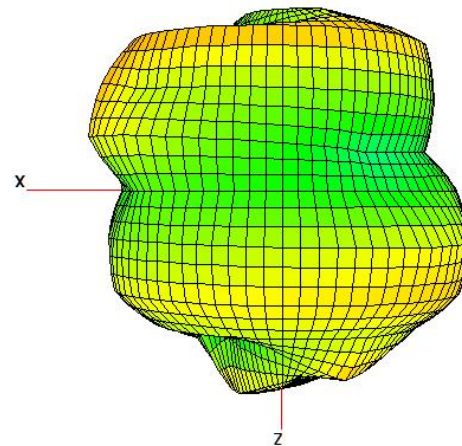
Radiation Pattern @ WiFi 6500 MHz



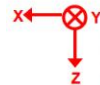
ZY-plane



XY-plane



ZX-plane



Summary

- P3 build antenna performance is similar to previous P2 build optimized design.

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