

[Lodestar] – CHARGER ANTENNA EXHIBITS

1 GENERAL DESCRIPTION

This document presents the antenna exhibits for the antennas integrated on the charger main board for the Lodestar LNK9 project. It provides the relevant performance characteristics as implemented in the charger hardware. These exhibits are intended to document and substantiate the antenna implementation for review, validation, and compliance purposes within the scope of the LNK9 project.

2 EXHIBITS

2.1 BLUETOOTH MODULE

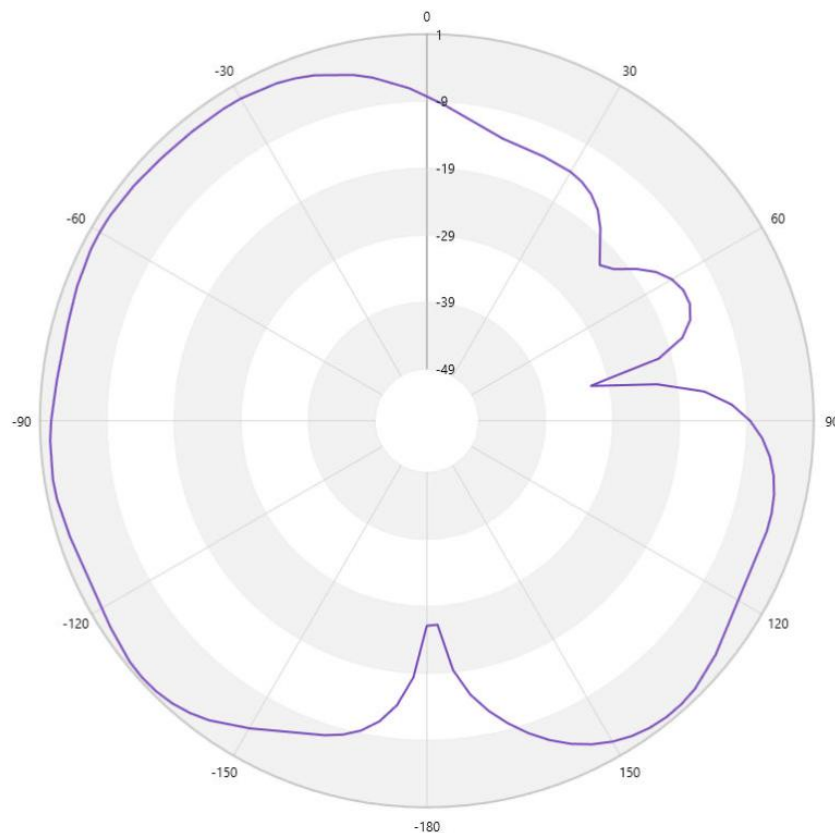


Figure 1: Antenna Radiation Pattern when $\Phi = 0$ deg.

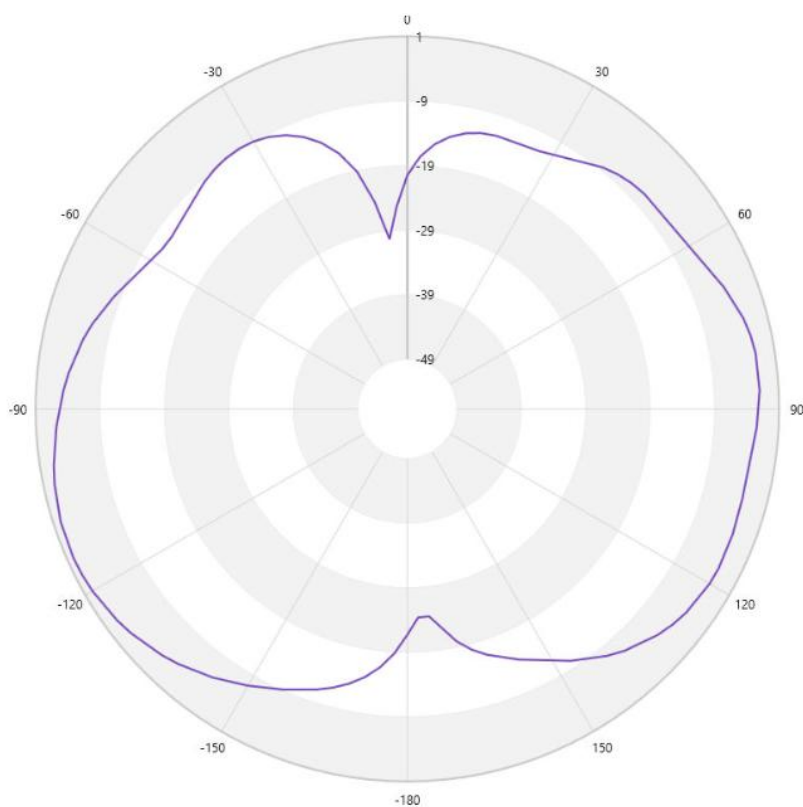


Figure 2: Antenna Radiation Pattern when $\Phi = 90^\circ$.

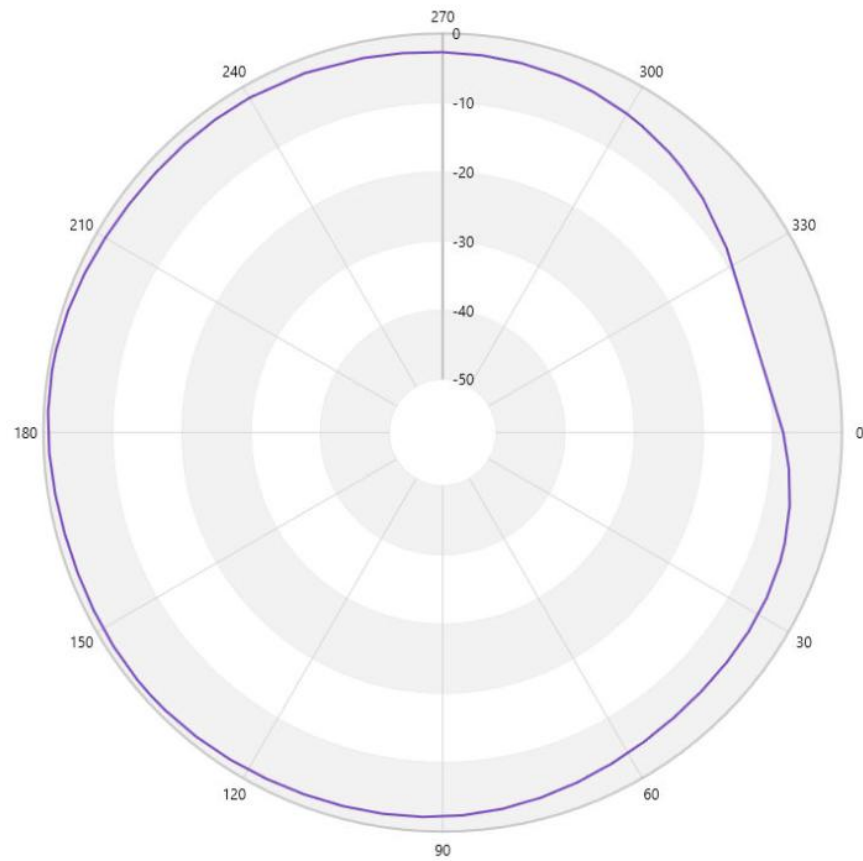


Figure 3: Antenna Radiation Pattern when $\Theta = 0$ deg.

2.2 CELLULAR MODULE

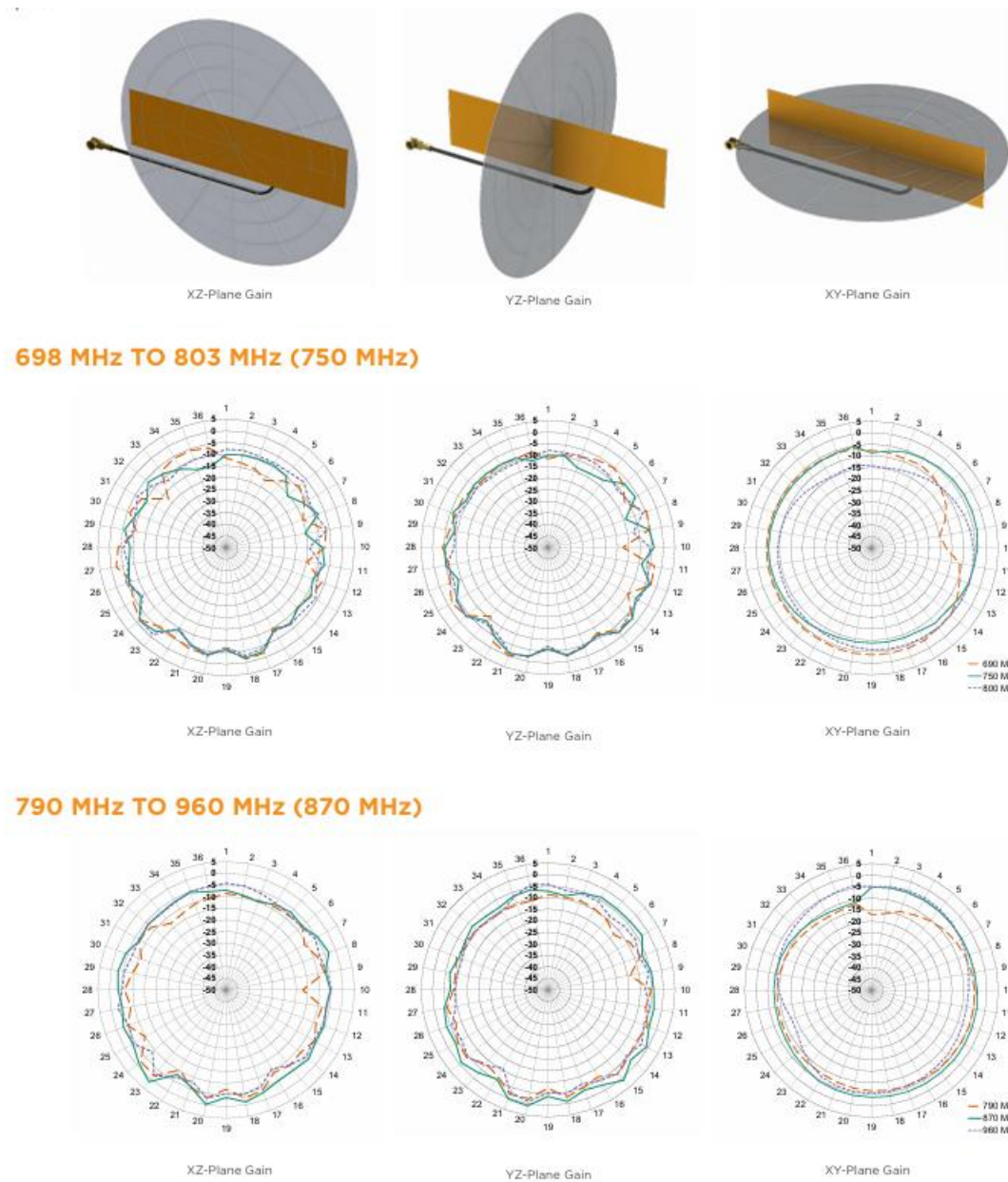
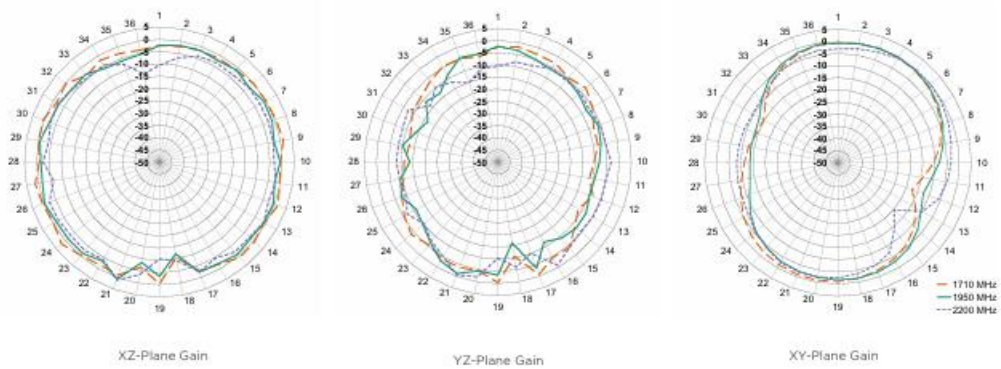
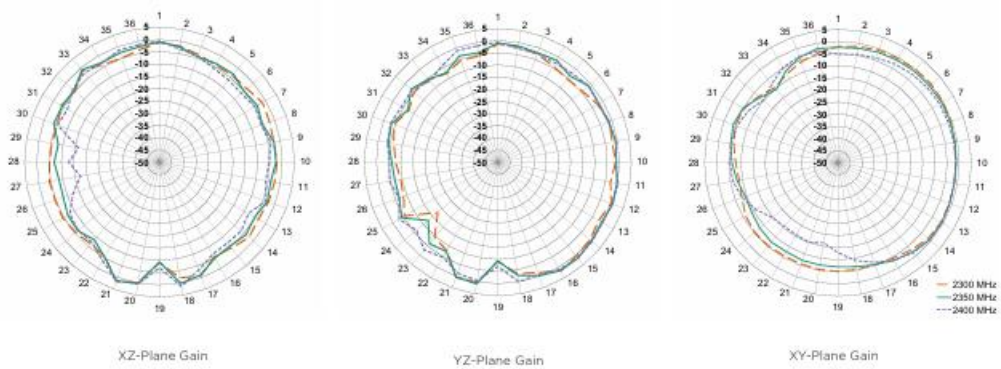


Figure 4: Radiation Patterns for ANT-LPC-FPC-ccc Antenna (1)

1710 MHz TO 2200 MHz (1950 MHz)



2300 MHz TO 2400 MHz (2350 MHz)



2496 MHz TO 2690 MHz (2600 MHz)

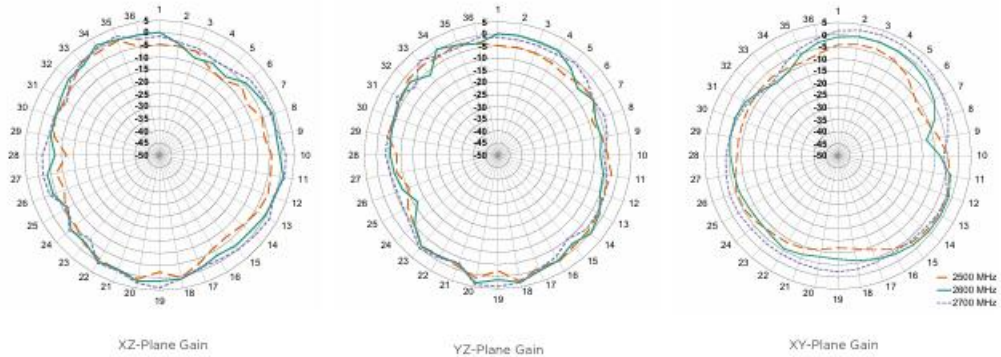
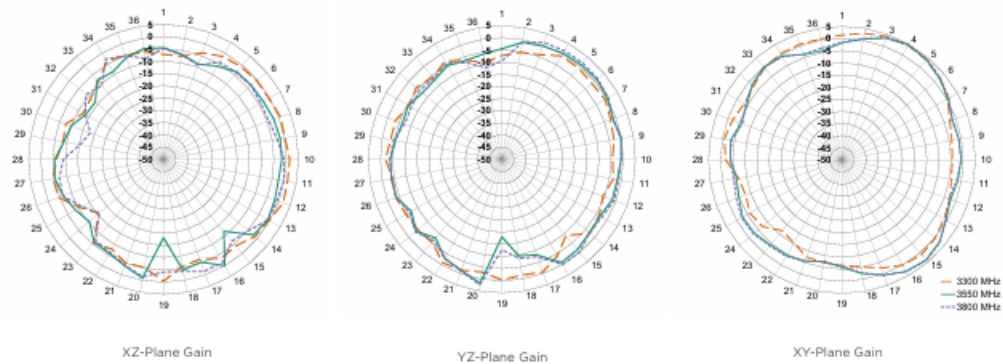
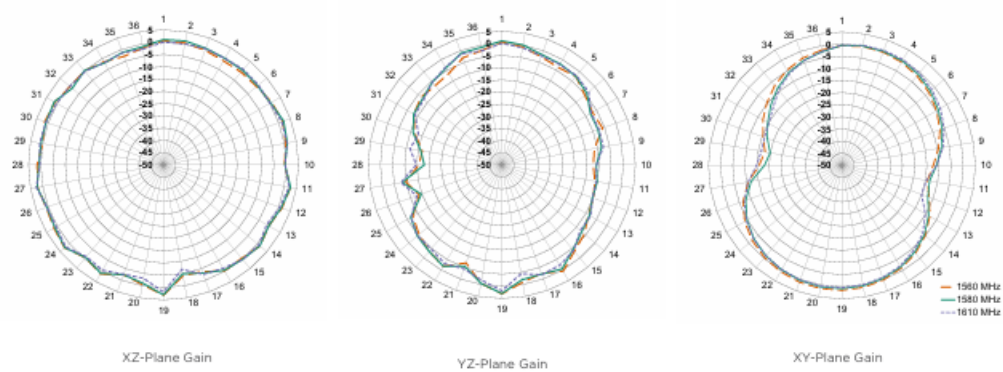


Figure 5: Radiation Patterns for ANT-LPC-FPC-ccc Antenna (2)

3300 MHz TO 3800 MHz (3550 MHz)



1560 MHz TO 1610 MHz (1580 MHz)



2400 MHz TO 2490 MHz (2450 MHz)

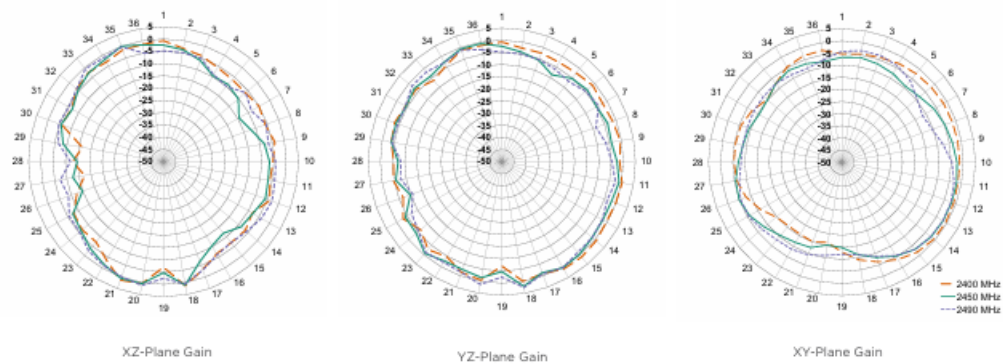


Figure 7. Radiation Patterns for ANT-LPC-FPC-ccc Antenna

Figure 6: Radiation Patterns for ANT-LPC-FPC-ccc Antenna (3)

2.3 WIFI MODULE

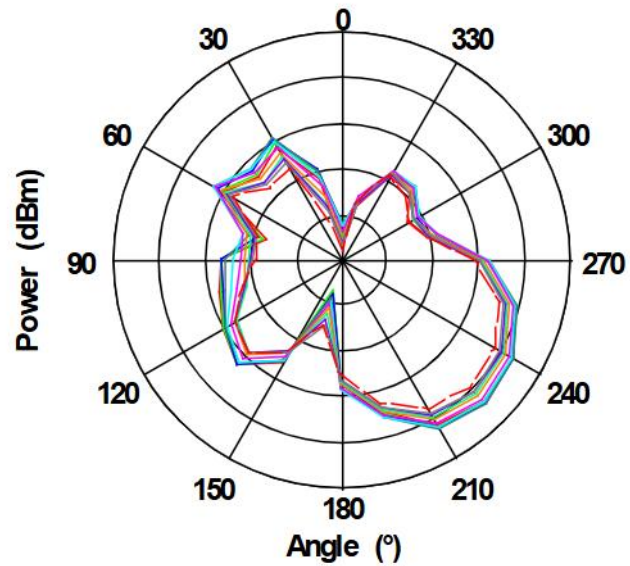


Figure 7: RNBD350 Antenna Radiation Pattern when $\Phi = 0^\circ$.

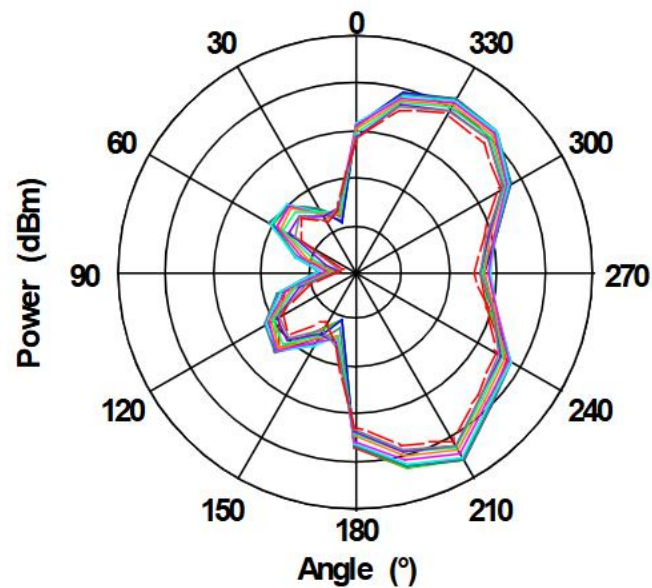


Figure 8: RNBD350 Antenna Radiation Pattern when $\Phi = 90^\circ$.

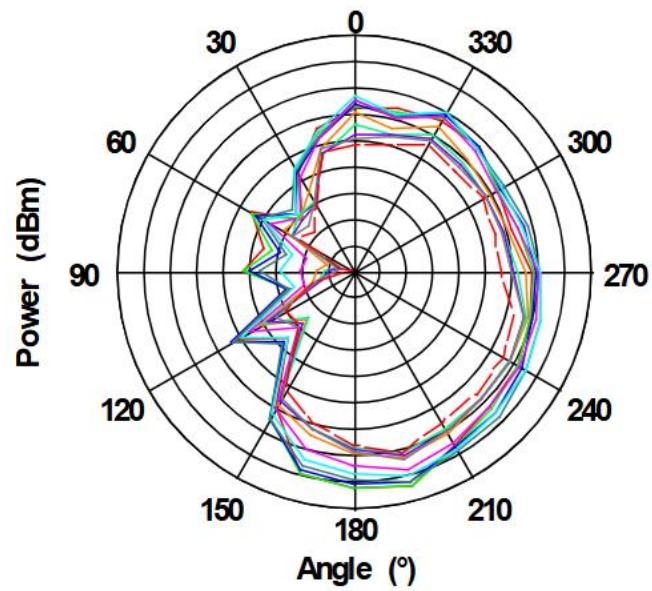


Figure 9: RNBD350 Antenna Radiation Pattern when Theta = 0 deg.

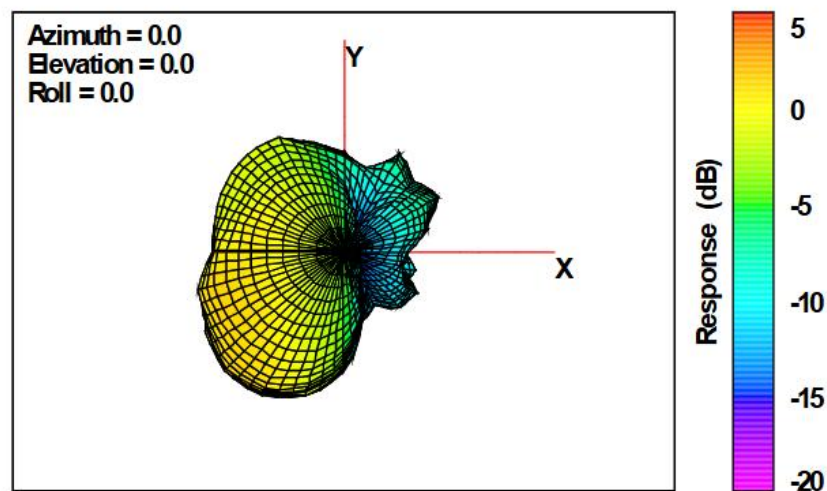


Figure 10: RNBD350 Antenna Radiation 3D Pattern