

AMA01 - Antenna Specs				
Brand	Model	Type	Peak gain	Impedance
Silicon Labs	MGM210PA32JIA2	Built-in antenna Connectorized Coaxial Dipole	1.86 dBi	50 Ω

4.17.1 Antenna Radiation and Efficiency

Typical MGM210P radiation patterns and efficiency for the on-board chip antenna under optimal operating conditions are plotted in the figures that follow. Antenna gain and radiation patterns have a strong dependence on the size and shape of the application PCB the module is mounted on, as well as on the proximity of any mechanical design to the antenna.

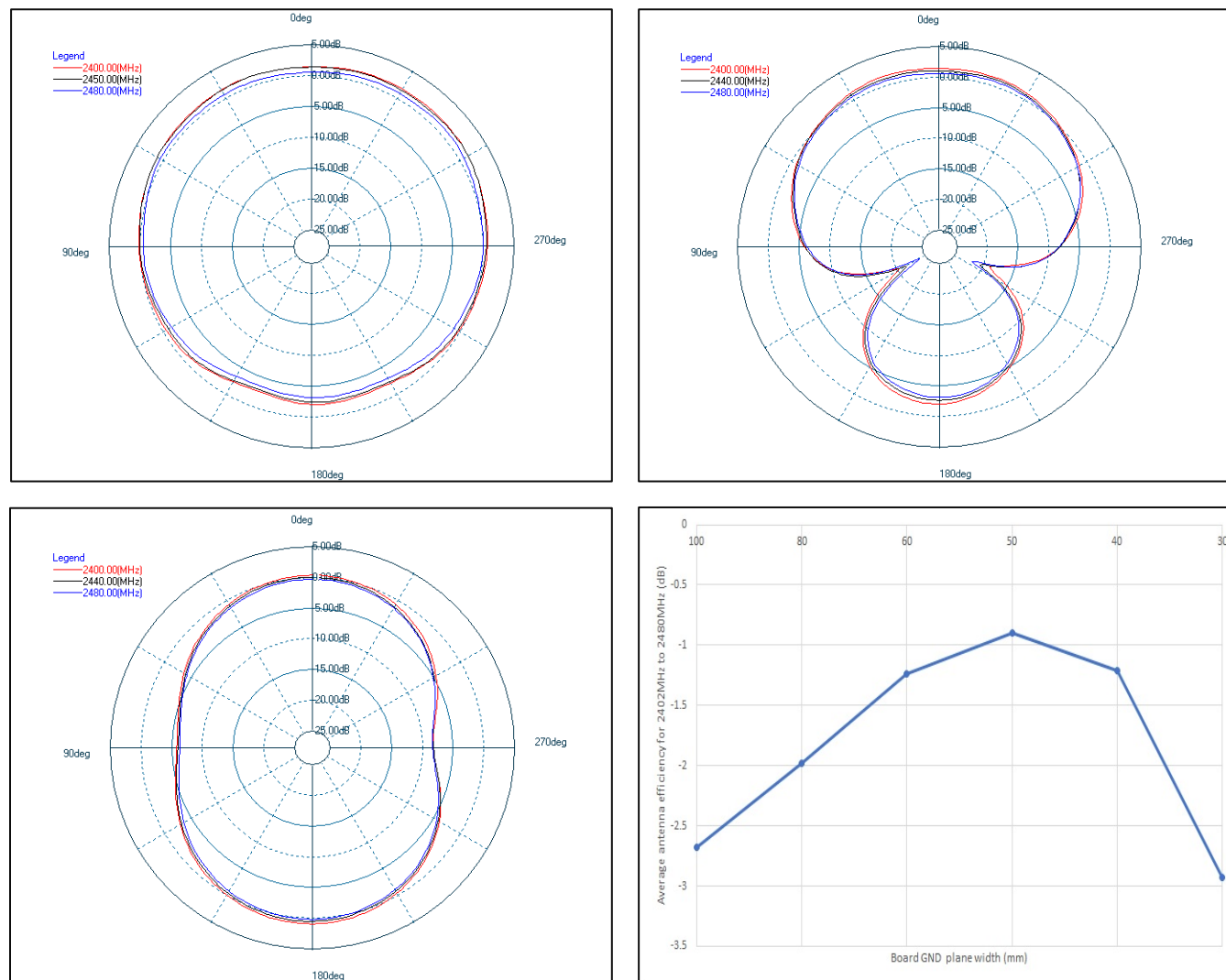


Figure 4.1. Typical 2D Antenna Radiation Patterns and Efficiency

Top Left: $\Phi = 0^\circ$, Top Right: $\Phi = 90^\circ$, Bottom Left: $\Theta = 90^\circ$, Bottom Right: Radiation Efficiency vs Application Board GND Plane Width