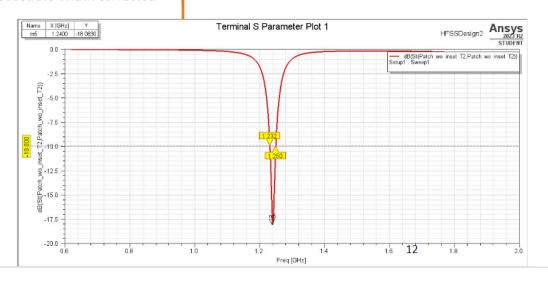
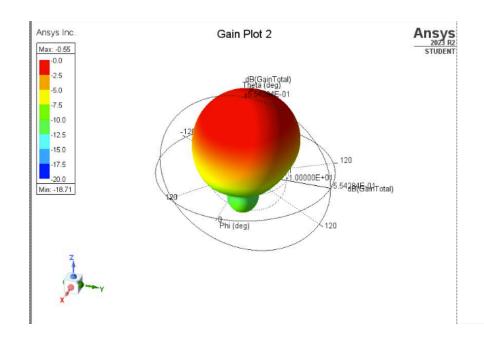
PATCH ANTENNA DIMENSIONS / CHARACTERISTICS

Substrate thickness (height)	1.2mm
Patch Width	70mm
Patch Length	53.975mm
Substrate Width	120.5mm
Substrate Length	89.475mm
Feed line length	17.75mm
Distance from patch edge to substrate edge (on the side of the patch that the feed line protrudes from)	22mm
Distance from patch edge to substrate edge (side w/o feed line)	13.5mm
S(1,1) gain at 1.24 GHz (Maximum S(1,1))	-18.08 dB
-10 dB Gain minimum frequency bandwidth (centered at 1.24 GHz)	18 MHz
Total Gain Maximum	-0.55 dB

Antenna simulations with thicker substrate – Substrate Width corrected

1.24 GHz +/- 9 MHz has AT LEAST 10 dB of gain [18 MHz bandwidth]





Maximum Gain: -0.55 dB