Designing 5G Microstrip Antenna by CST program and report describing this design

This report should include:

1. Abstract
2. introduction, designing of this antenna, antenna parameters
3. result and discussion (proposed antenna's return loss with the figure, proposed antenna's return loss and bandwidth as a table, proposed antenna's voltage standing wave ratio with the figure, proposed antenna's directivity at 5GHz in E-plane with the figure, proposed antenna's directivity in E and H plane at resonance frequency as a table, and proposed antenna's gain
4. conclusion.

Technical requirements

5 GHz (center frequency)

Return loss (S11) value must be less than -20 dB

VSWR value must be less than 1.5

Bandwidth must be greater than 200 MHz

Gain must be greater than 4 dBi

A 2D radiation pattern graphic must be included on the report.

The surface current graph must be included in the report.

The real part of the input impedance should be close to 50 ohms. The imaginary part of the input impedance should be close to 0 ohms.