TES
2’nd Simulate Report WiFi antenna of FCD-215 CBR RevA

2022.07.25 / Raymond Wang

EVERY CONNECTION COUNTS

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TEST DETAILS AND SPEC

TE Engineering Location, Engineer	Taiwan, Raymond Wang
Customer Equipment Name	TES
Bands / Frequencies	Band: WiFi F [MHz]: 2400-2500, 5150-5875
Requirements or Targets	Target:
Test Equipment	CST
Test Report Type	Preliminary
Antennas	2x4654 -0/-9
Task	Simulate for currently placement
Antenna Gain (Peak)	< 1dBi

FCD-215 CBR

Simulate the antenna performance for currently placement

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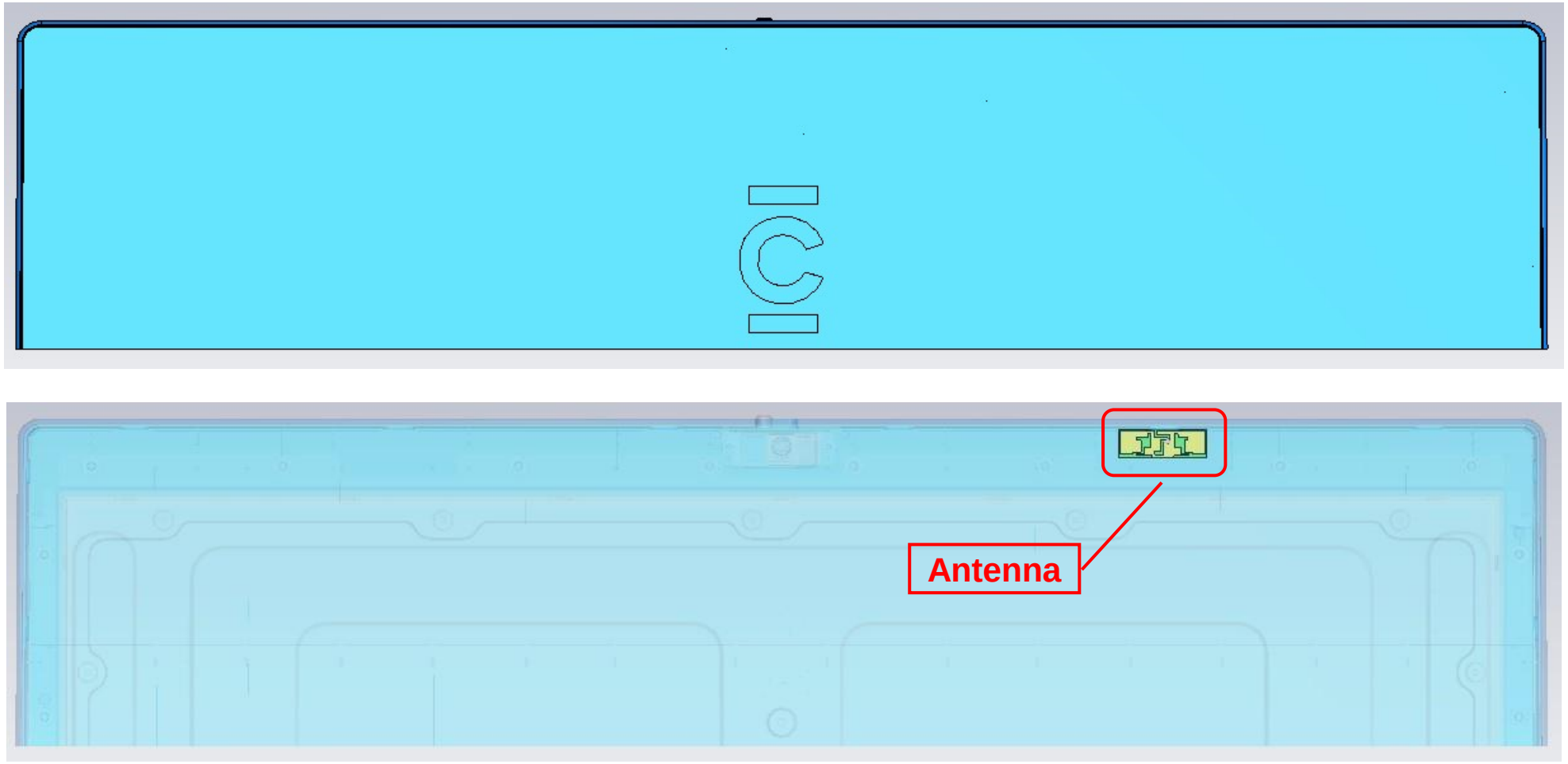
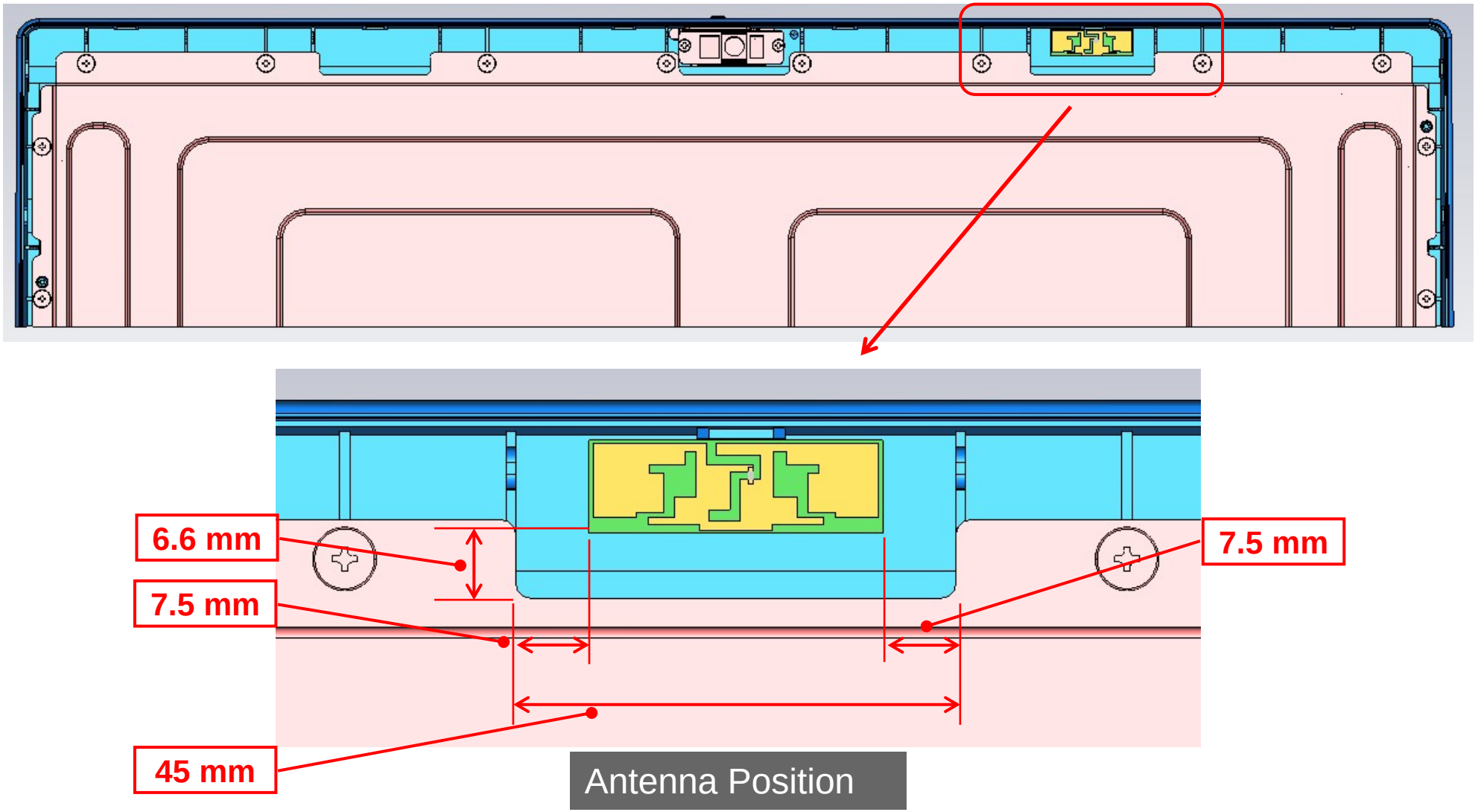
Picture for Antenna Position

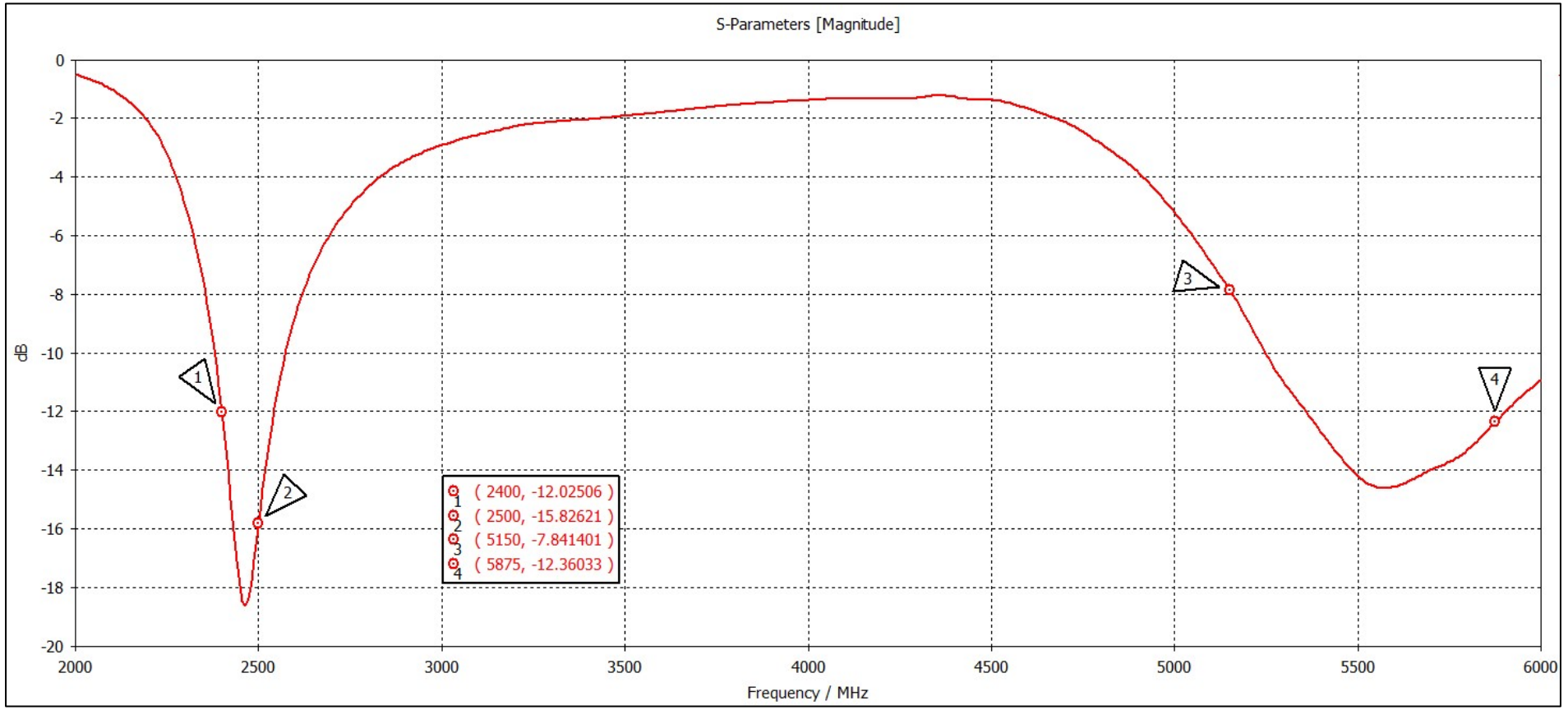


Antenna Position

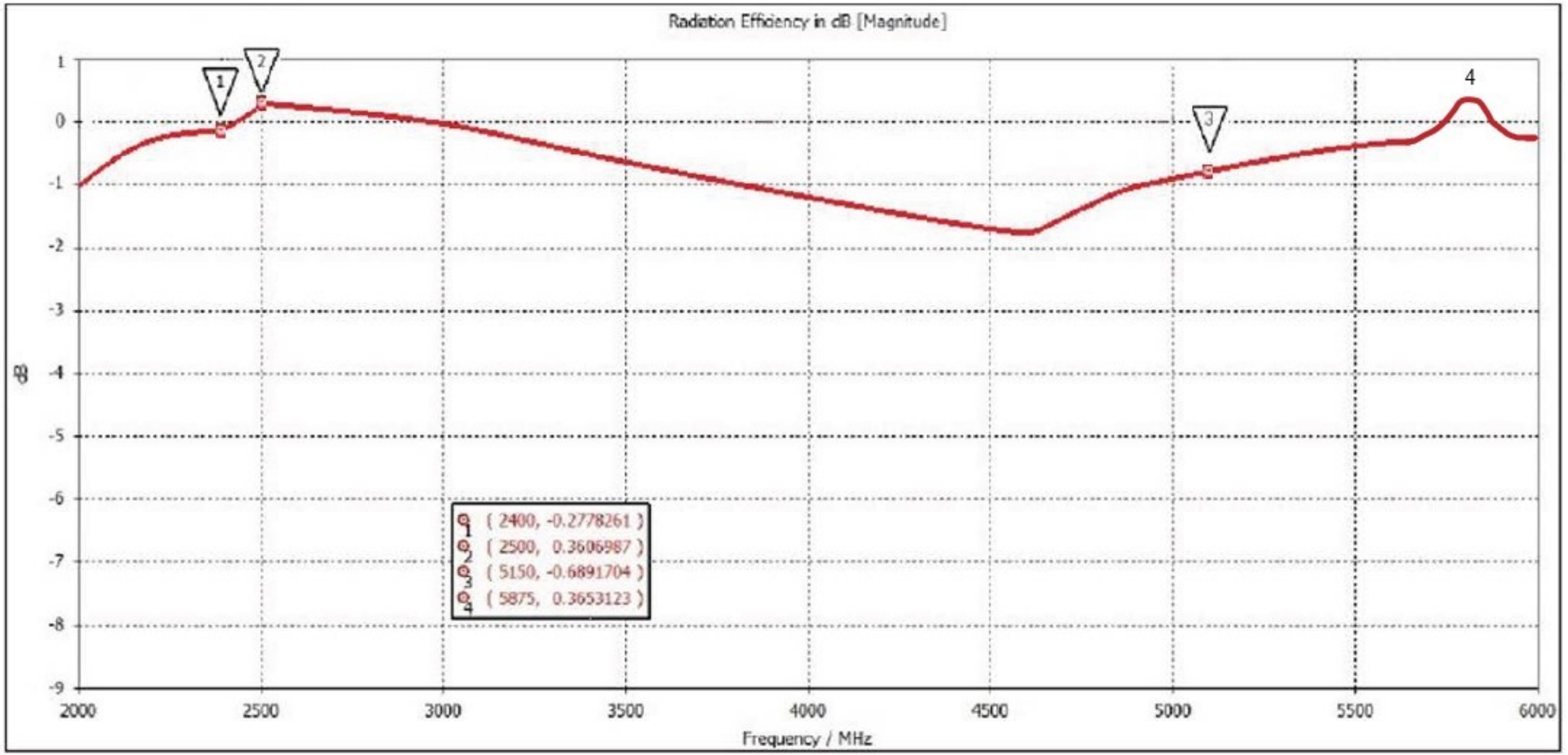
Picture for Antenna Position



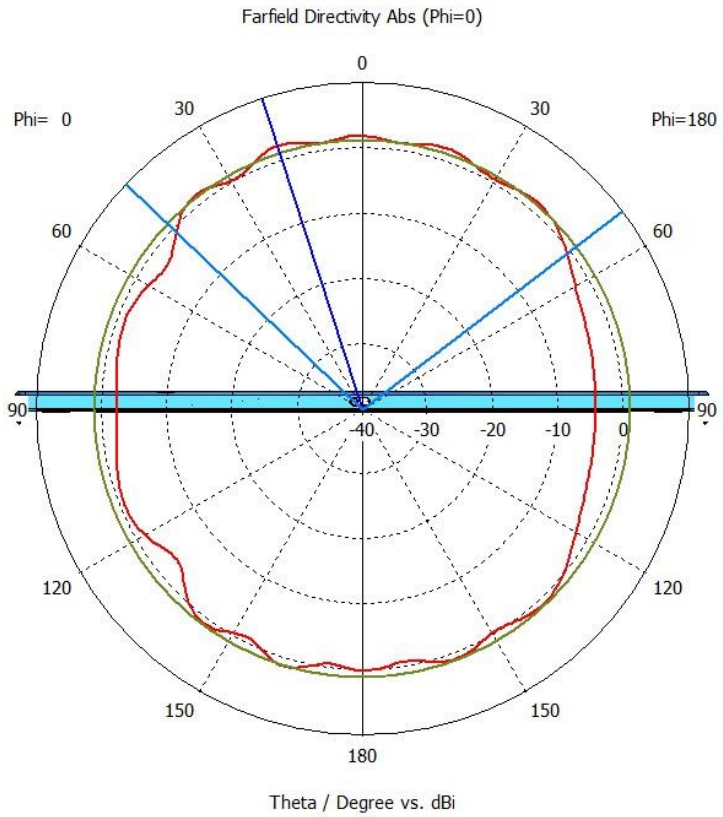
Return Loss



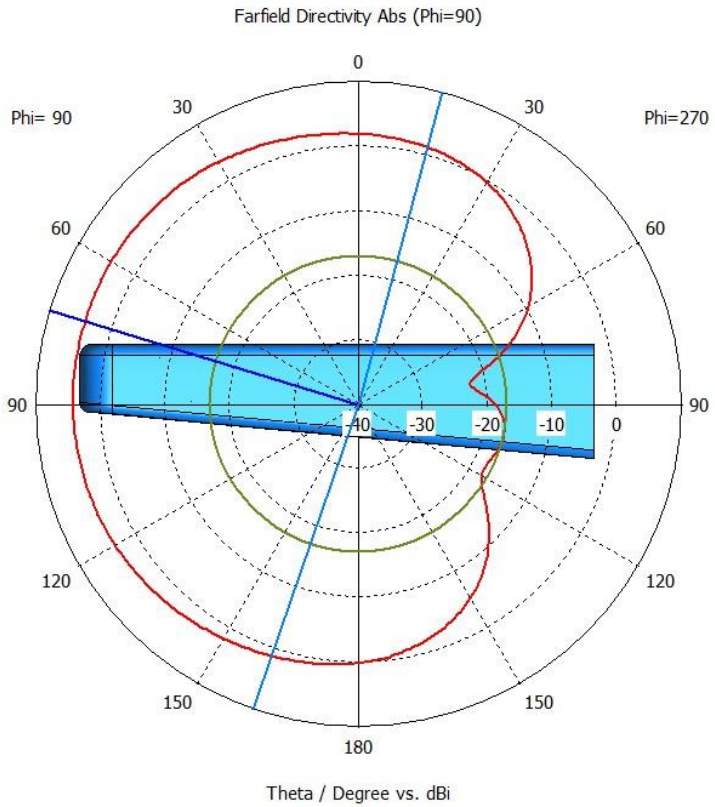
Average Gain



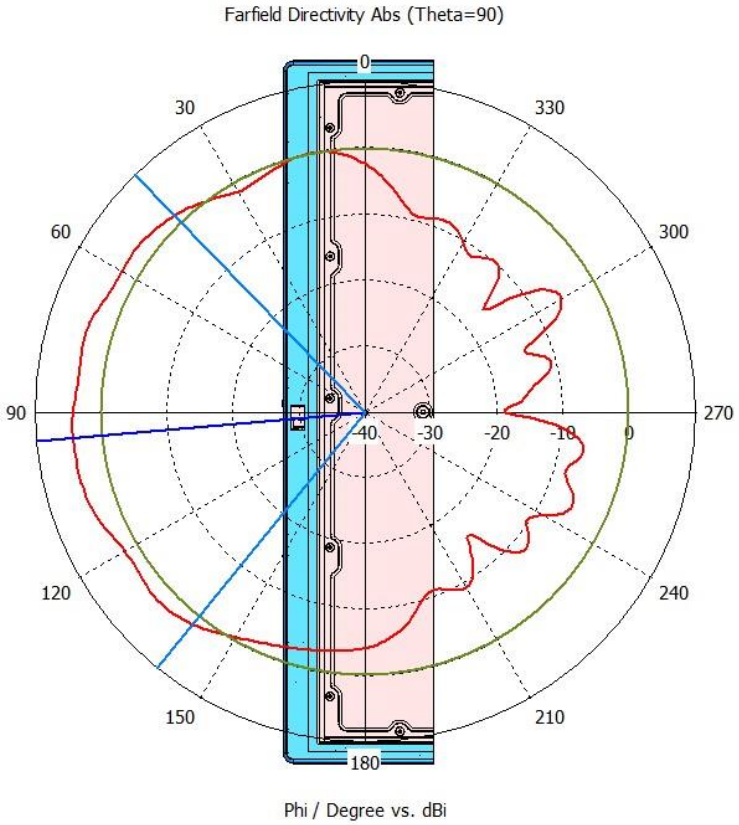
2D Radiation for 2450MHz



Phi 0

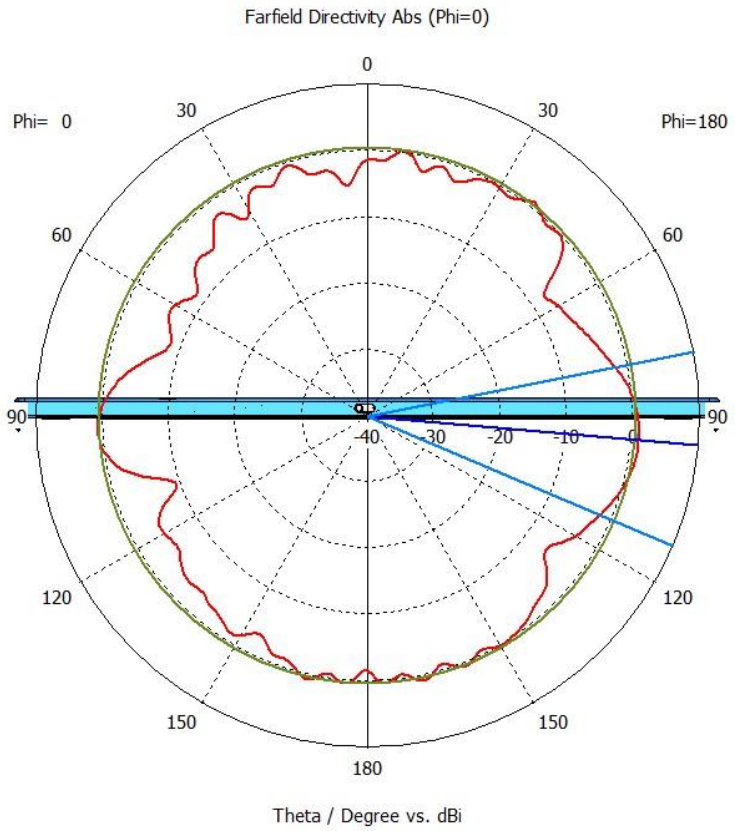


Phi 90

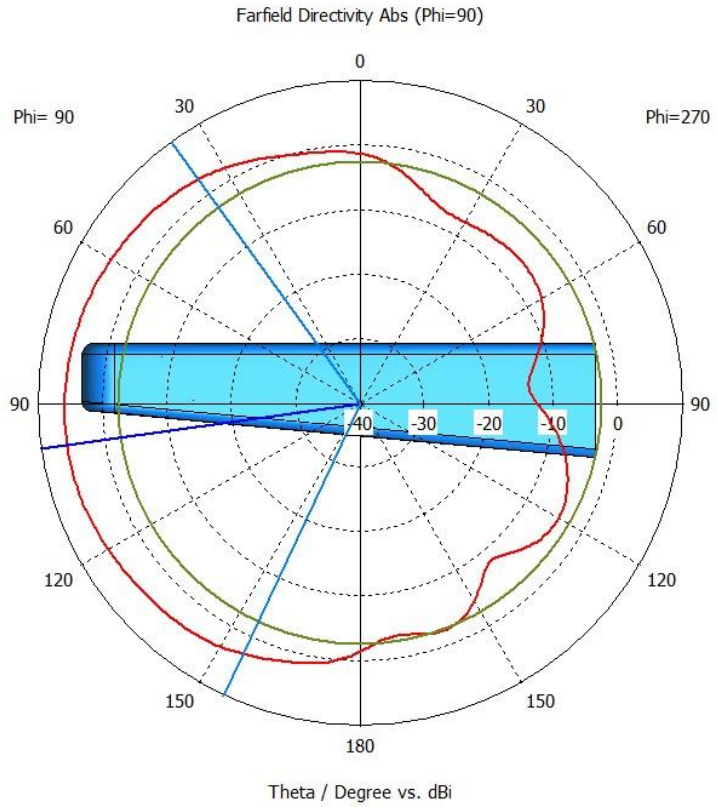


Theta 90

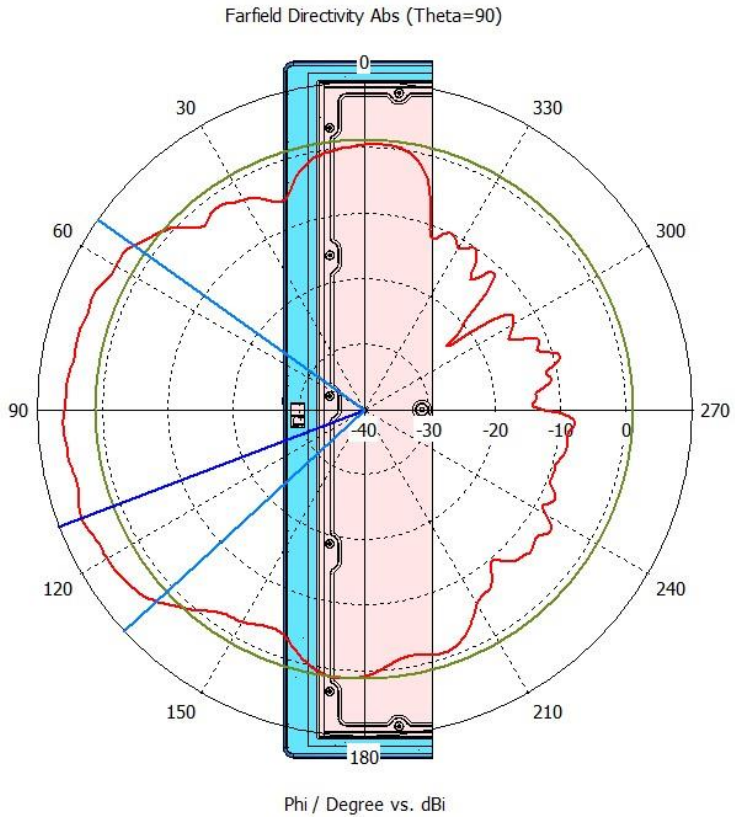
2D Radiation for 5470MHz



Phi 0



Phi 90

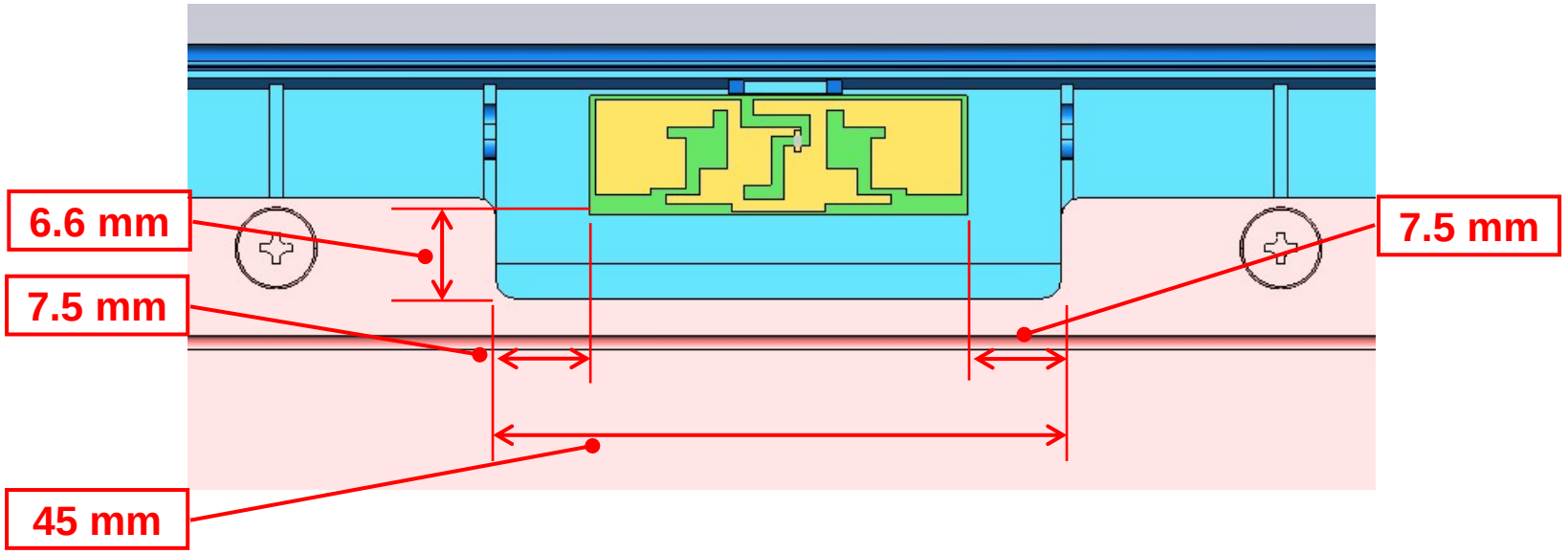


Theta 90

TEST RESULT / CONCLUSION

For the currently placement, the average gain of simulation result is better than -1dBi by CST. The performance of antenna without the antenna cable.

The simulation results shown that the below antenna propose keep out area can provide good antenna performance.



WHEN TECHNOLOGY CONNECTS, SO DOES HUMANITY.

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TE connectivity