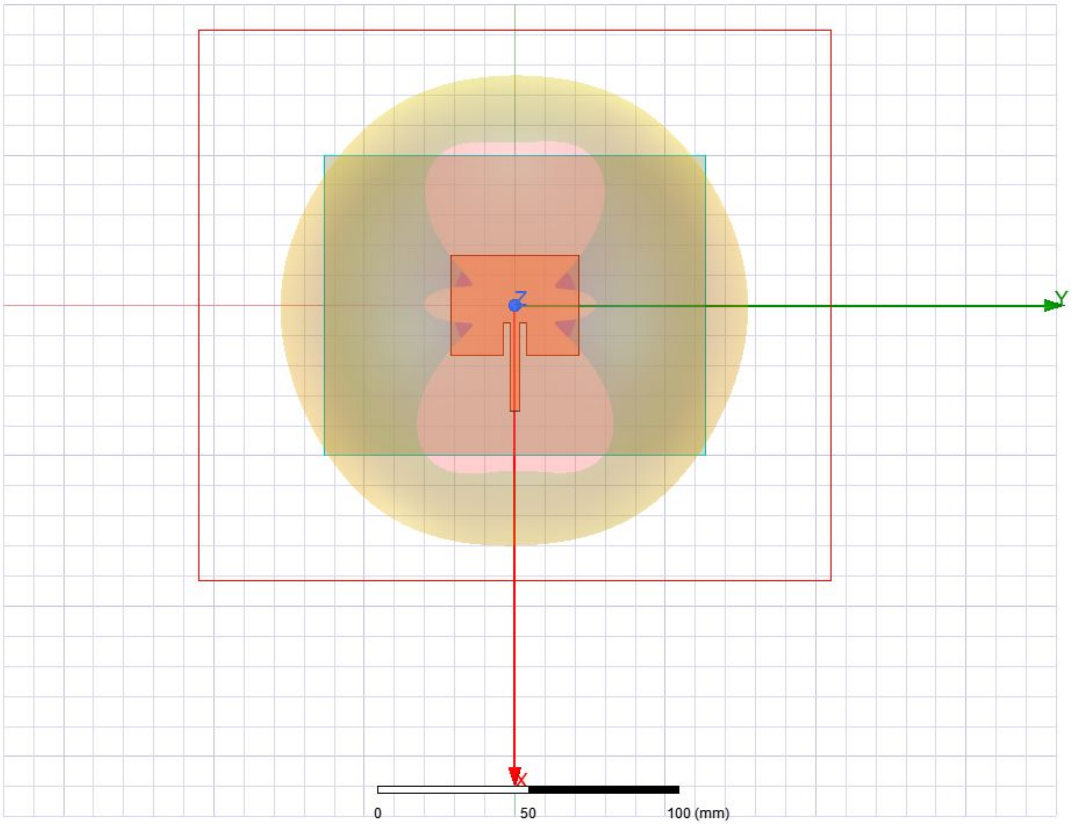
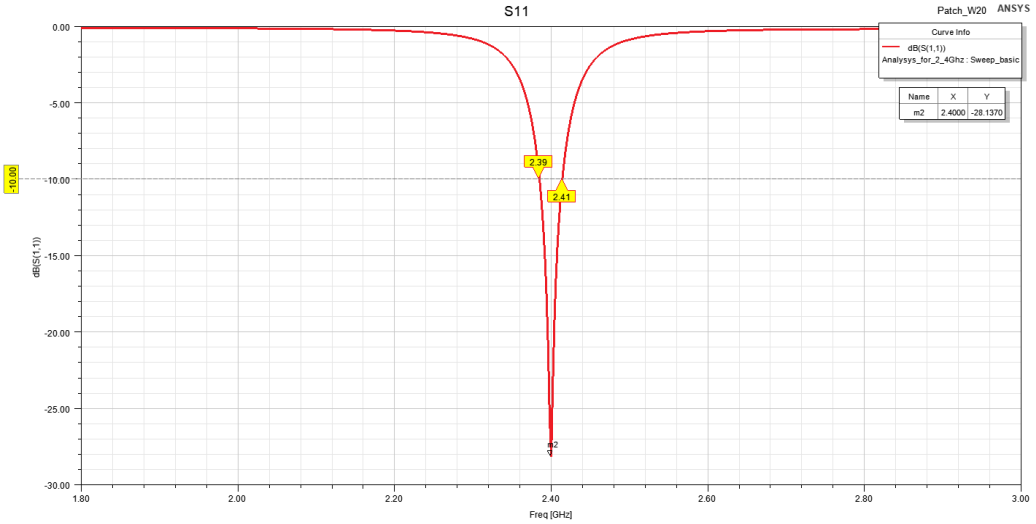
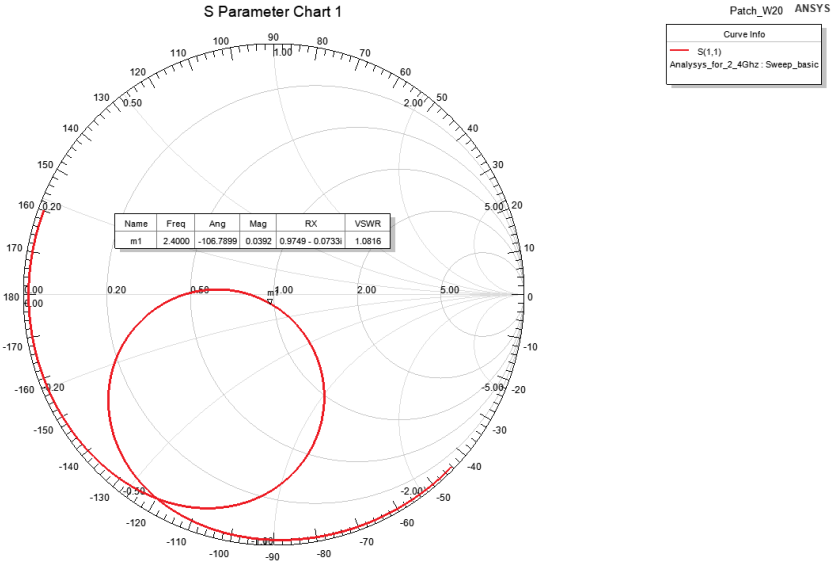
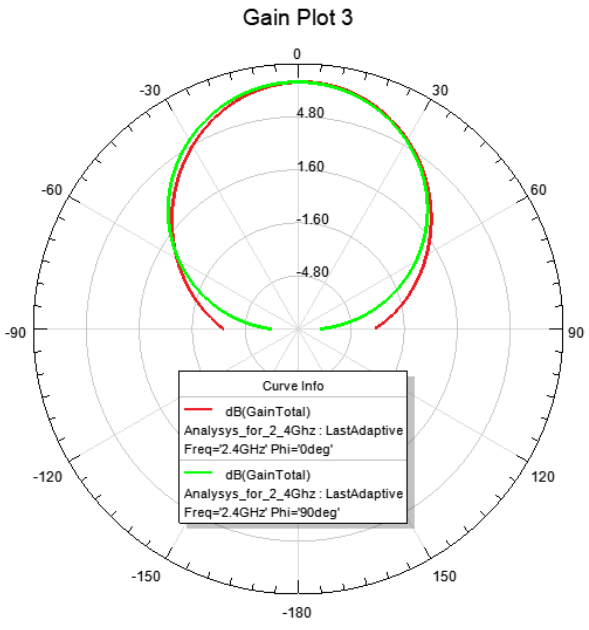
Patch Model



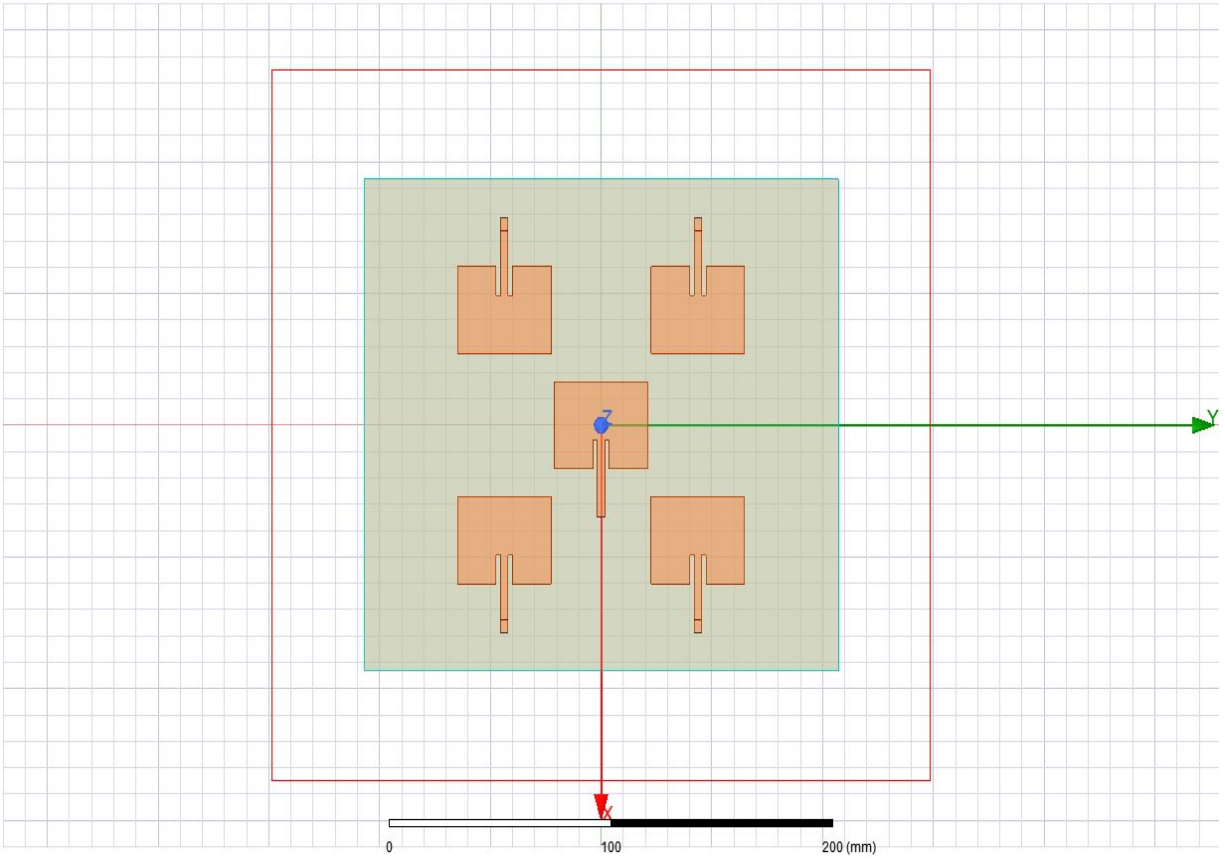
Results


S11
Patch_W20 ANSYS
Curve Info
dB(S(1,1))
Analysys_for_2_4Ghz : Sweep_basic
Name X Y
m2 2.4000 -28.1370
2.39
2.41
-10.00
dB(S(1,1))
Freq [GHz]


S Parameter Chart 1
Patch_W20 ANSYS
Curve Info
S(1,1)
Analysys_for_2_4Ghz : Sweep_basic
Name Freq Ang Mag RX VSWR
m1 2.4000 -106.7899 0.0392 0.9749 - 0.0733i 1.0816

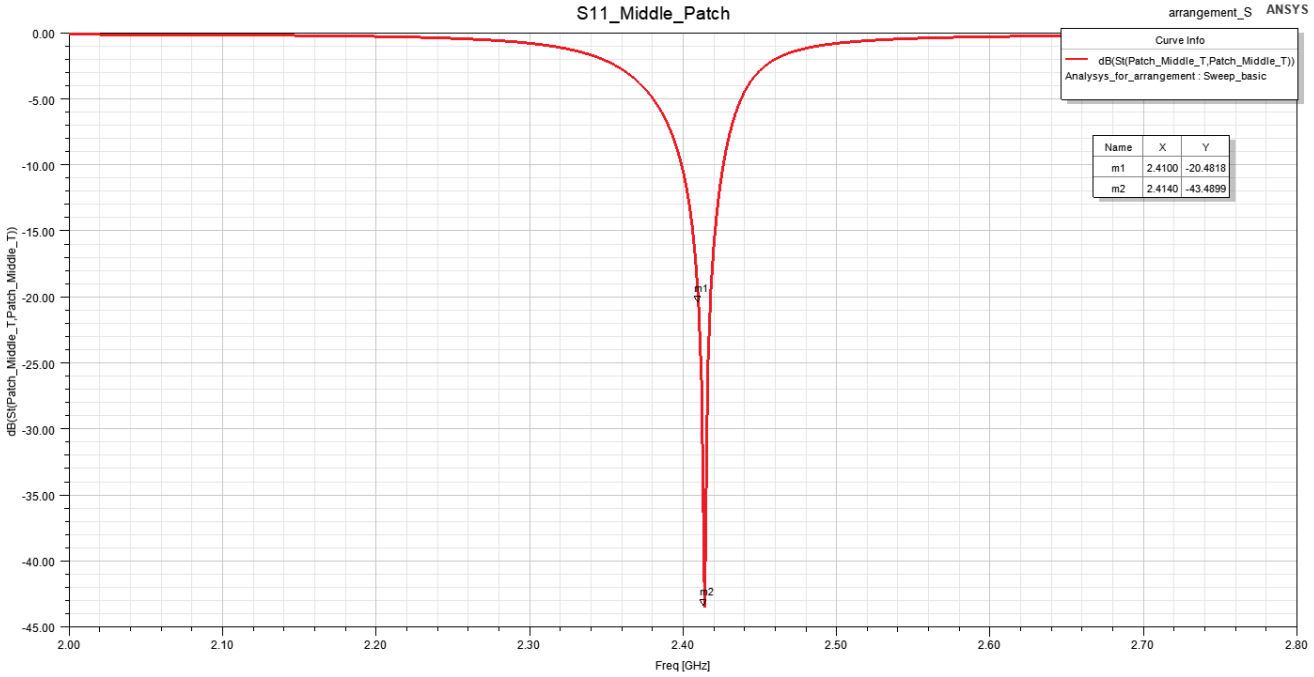

Gain Plot 3
Patch_W20 ANSYS
4.80
1.60
-1.60
-4.80
Curve Info
dB(GainTotal)
Analysys_for_2_4Ghz : LastAdaptive
Freq='2.4GHz' Phi='0deg'
dB(GainTotal)
Analysys_for_2_4Ghz : LastAdaptive
Freq='2.4GHz' Phi='90deg'

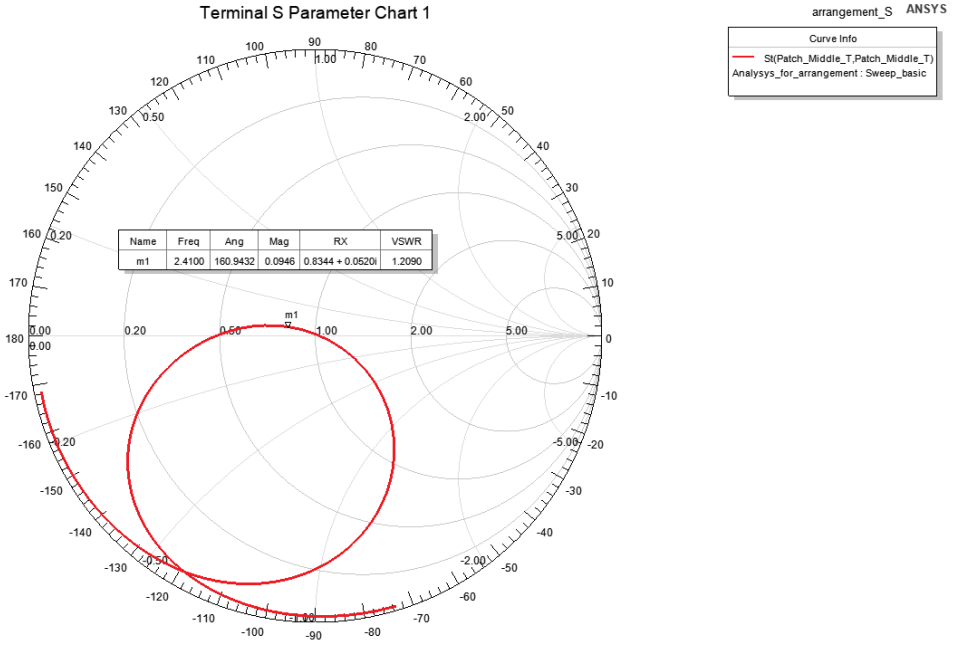
Antennas arrangement



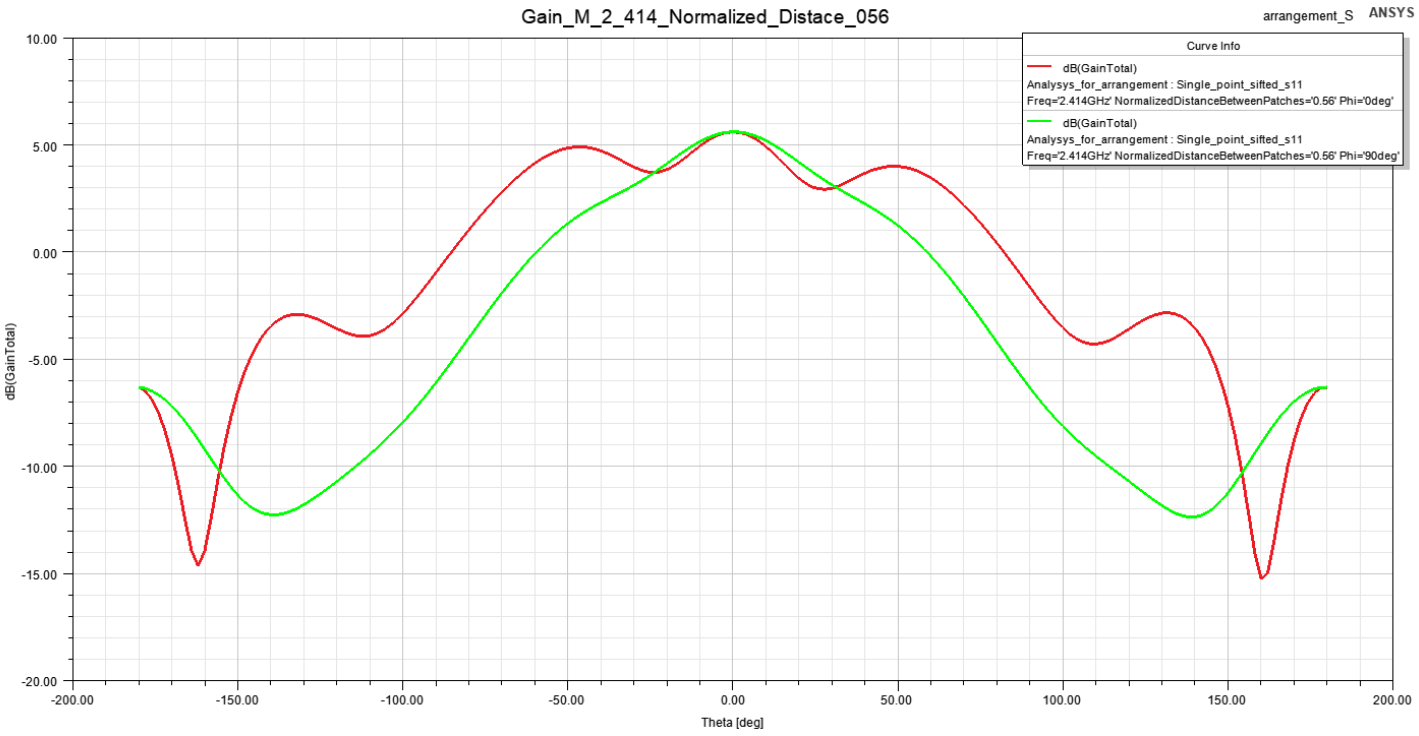
Results

A) S11 for middle patch - Excitation on M partch (1V), another are terminated

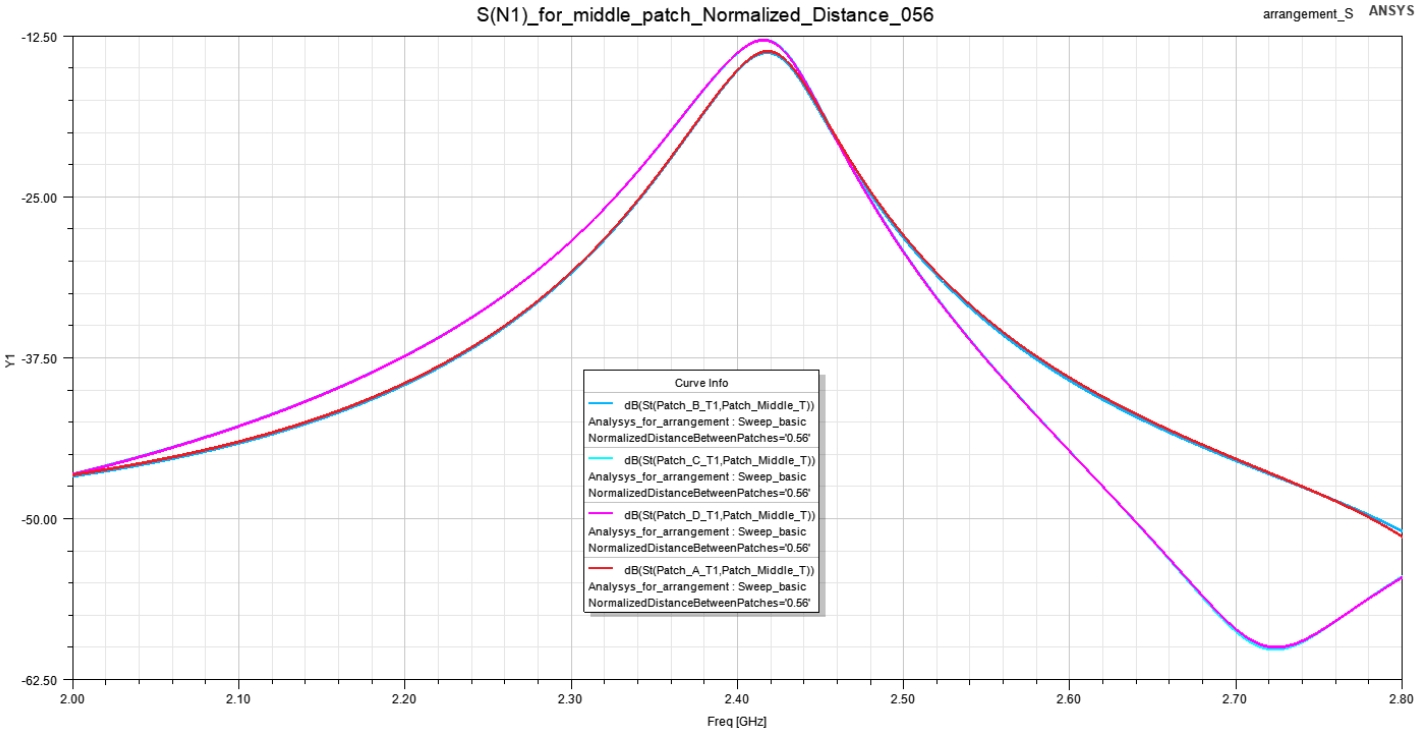




B) Gain for M patch



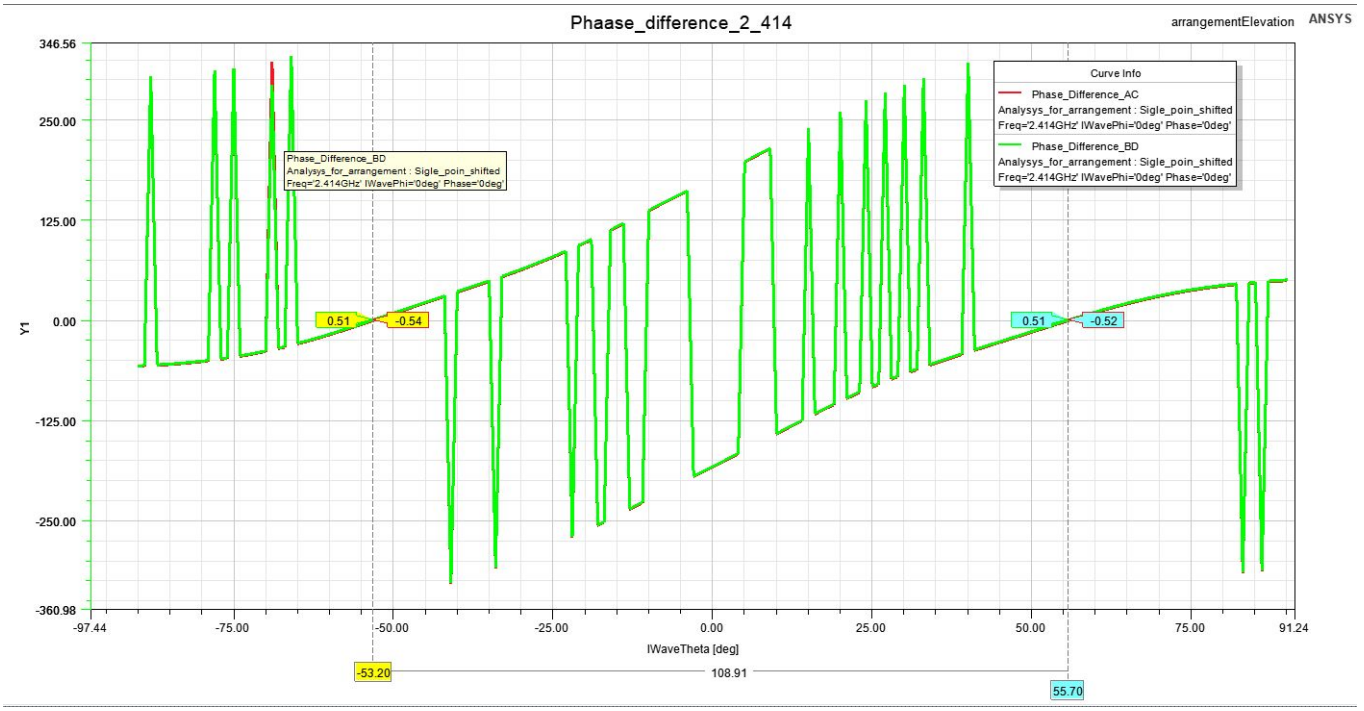
C) Isolation for M patch



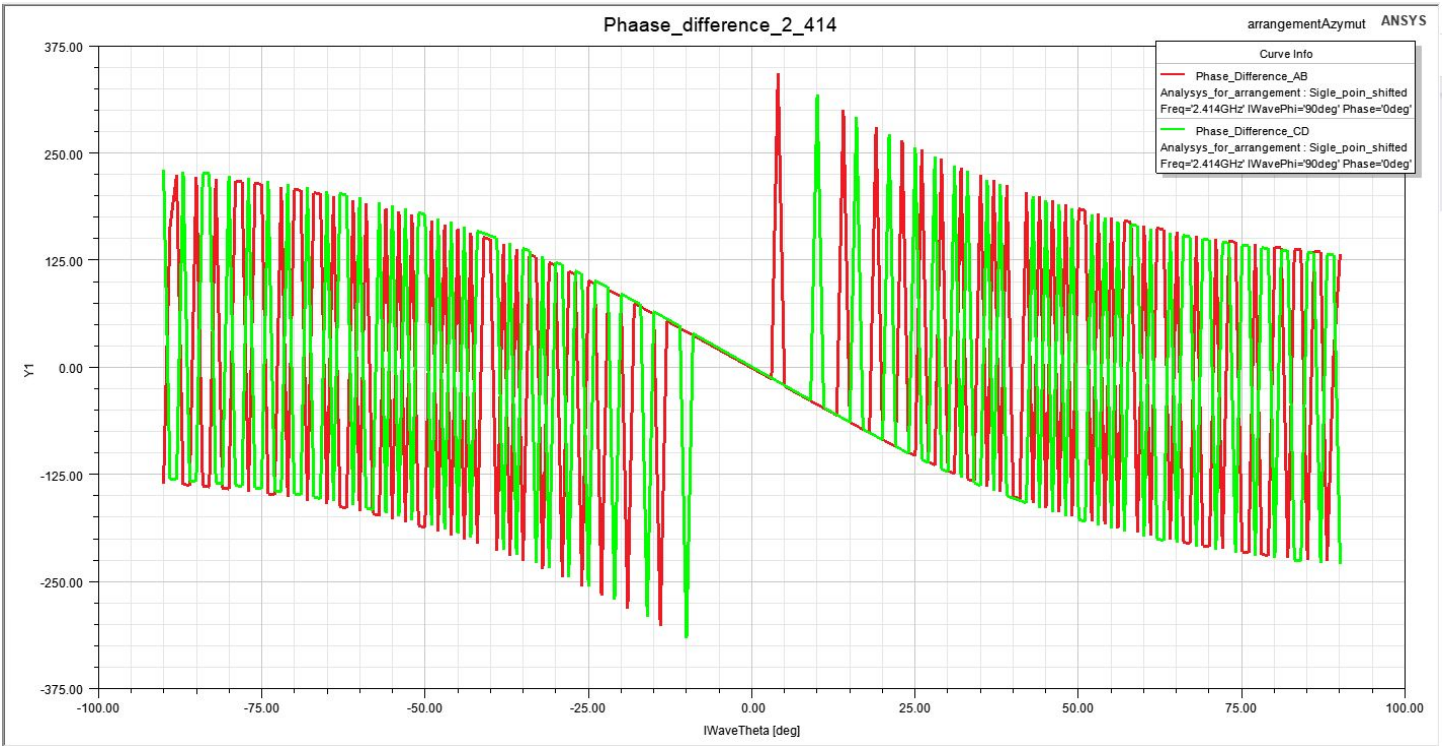
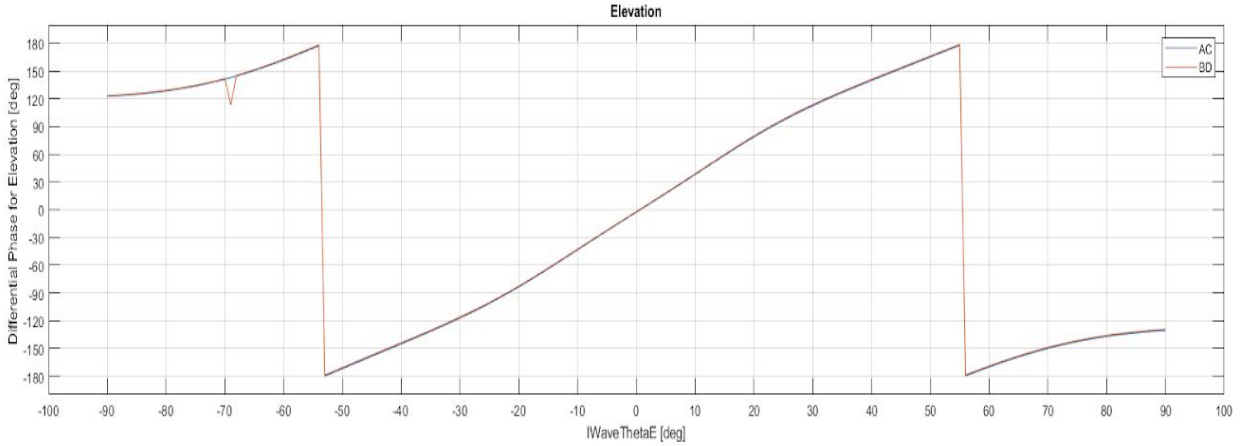
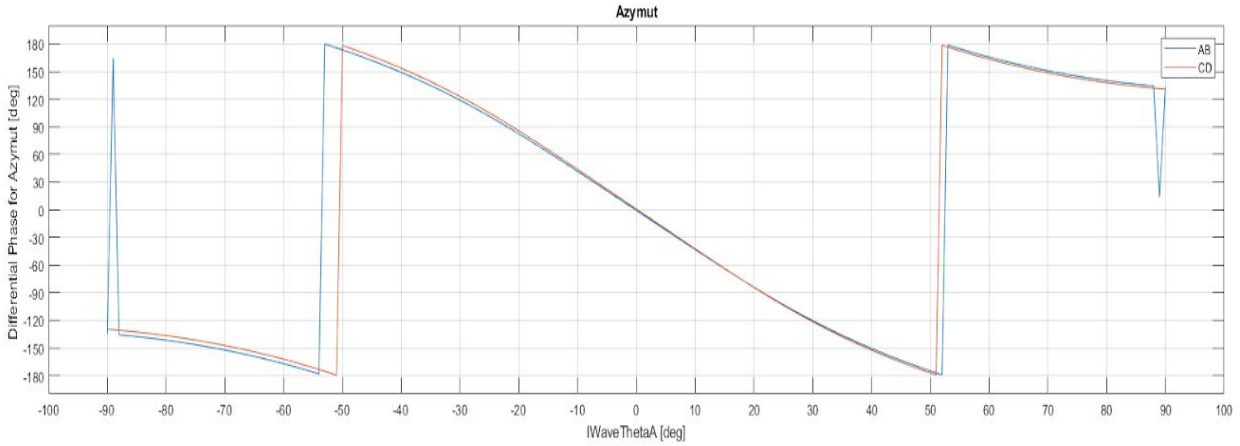
Differential Phase Results

A) In HFSS

a)Elevation



b) Azymut



B) After Matlab calculations