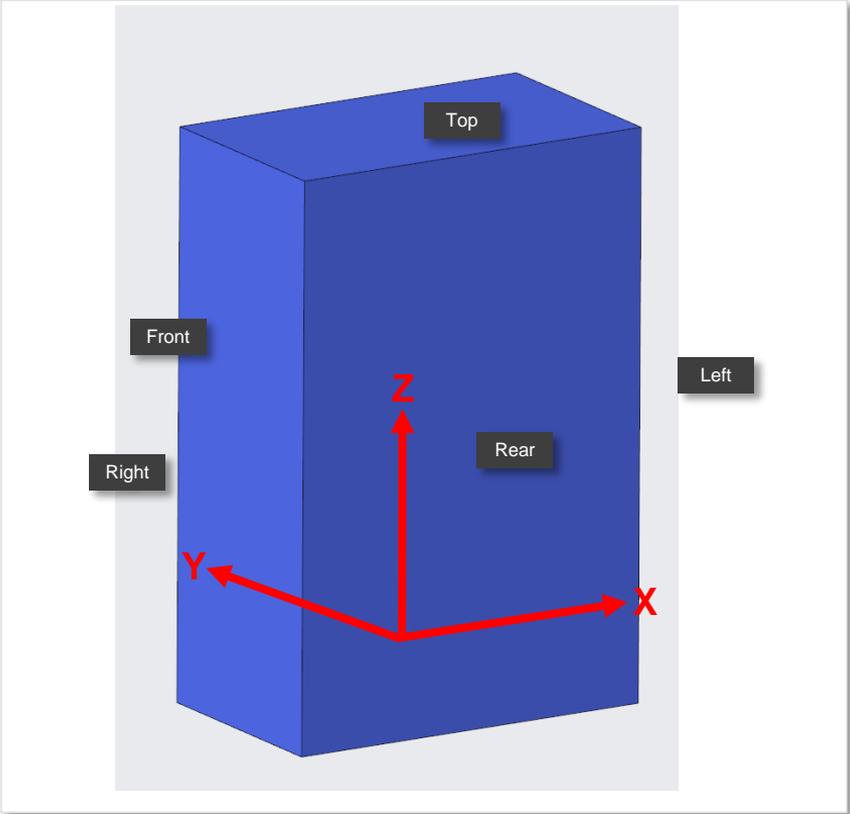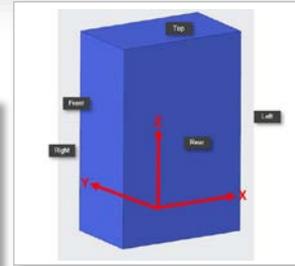# Radiation Patterns
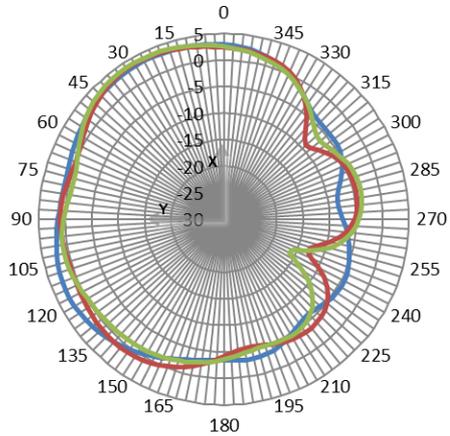
Orientation of Sercomm WIFI 7 for Charter
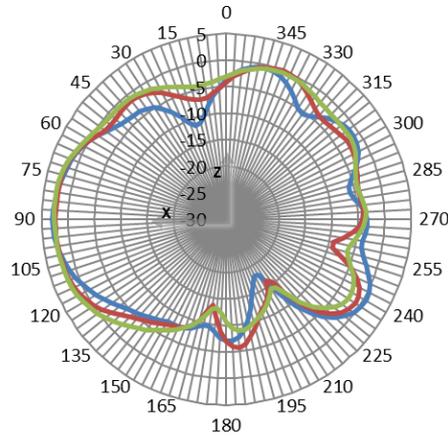
Total Gain Patterns: Ant0_2G4

Ant0_2G4 Azimuth XY

2400MHz: Max=3.47 Avg=0.08
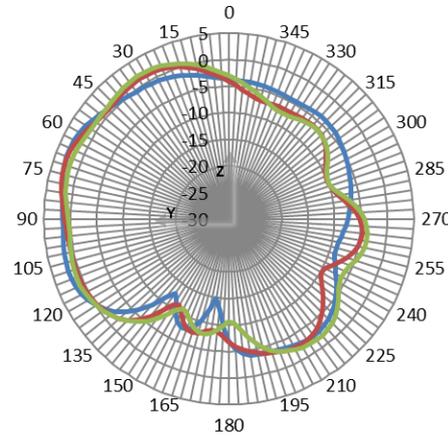2440MHz: Max=3.83 Avg=-0.33
2480MHz: Max=4.04 Avg=-0.49

Azimuth (XY)

Ant0_2G4 Elevation XZ

2400MHz: Max=2.94 Avg=-2.35
2440MHz: Max=2.40 Avg=-2.12
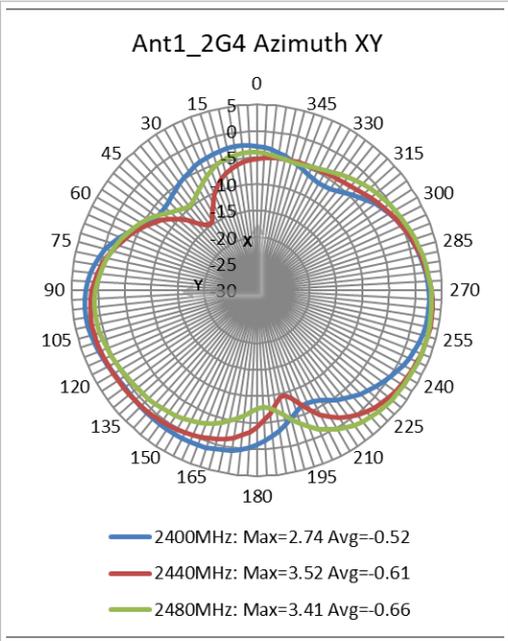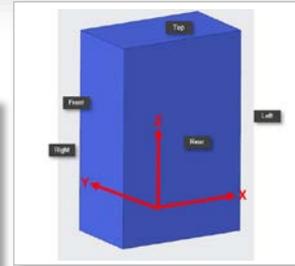2480MHz: Max=2.65 Avg=-1.74

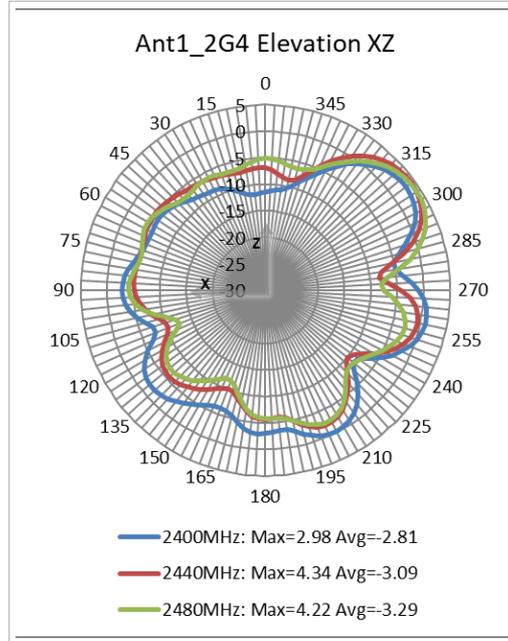**Side to Side (XZ)**

Ant0_2G4 Elevation YZ

2400MHz: Max=2.93 Avg=-2.01
2440MHz: Max=2.80 Avg=-2.21
2480MHz: Max=1.96 Avg=-2.05

Front to Back (YZ)

Total Gain Patterns: Ant1_2G4
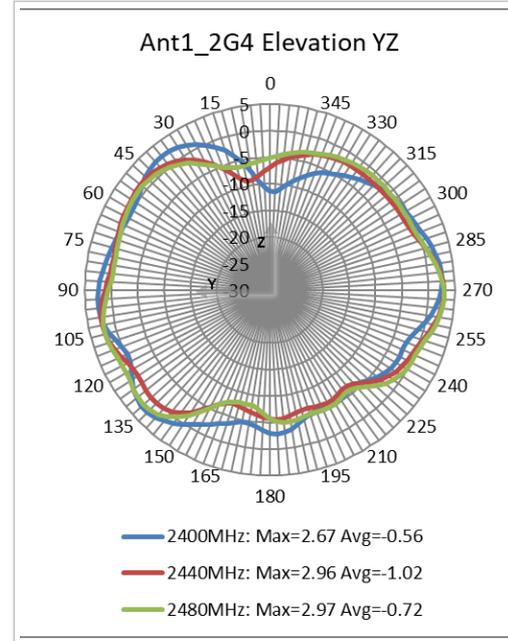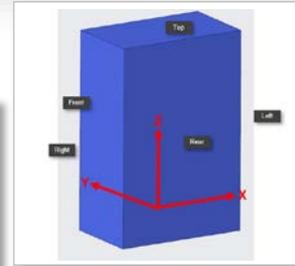

Ant1_2G4 Azimuth XY

- 2400MHz: Max=2.74 Avg=-0.52
- 2440MHz: Max=3.52 Avg=-0.61
- 2480MHz: Max=3.41 Avg=-0.66

Azimuth (XY)

Ant1_2G4 Elevation XZ

- 2400MHz: Max=2.98 Avg=-2.81
- 2440MHz: Max=4.34 Avg=-3.09
- 2480MHz: Max=4.22 Avg=-3.29

Side to Side (XZ)

Ant1_2G4 Elevation YZ

- 2400MHz: Max=2.67 Avg=-0.56
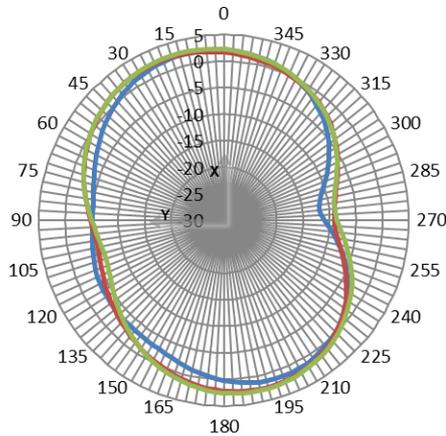- 2440MHz: Max=2.96 Avg=-1.02
- 2480MHz: Max=2.97 Avg=-0.72

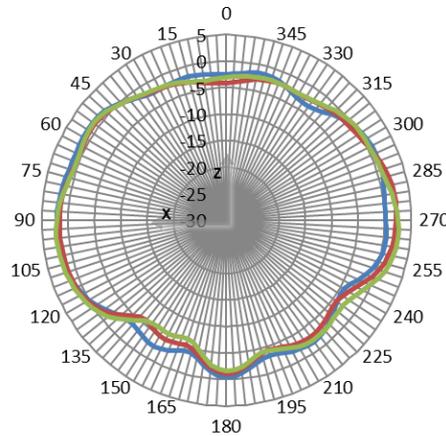Front to Back (YZ)

Total Gain Patterns: Ant2_2G4

Ant2_2G4 Azimuth XY

2400MHz: Max=2.25 Avg=-1.30
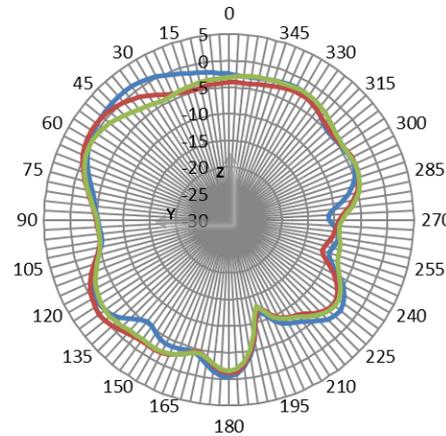2440MHz: Max=2.58 Avg=-0.54
2480MHz: Max=2.85 Avg=-0.33

Azimuth (XY)

Ant2_2G4 Elevation XZ

2400MHz: Max=2.20 Avg=-0.69
2440MHz: Max=2.29 Avg=-0.82
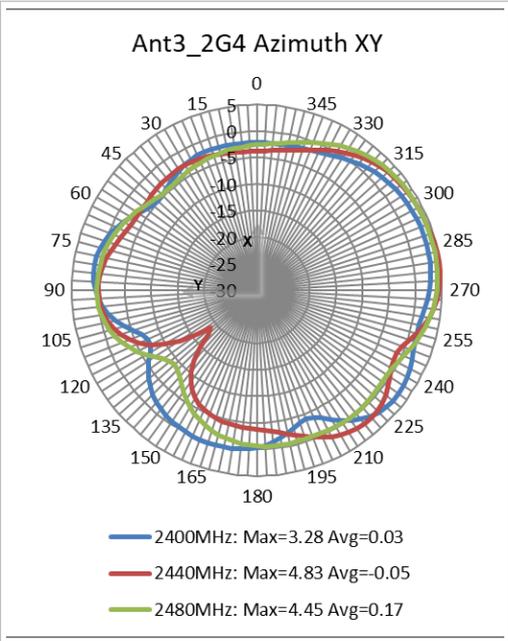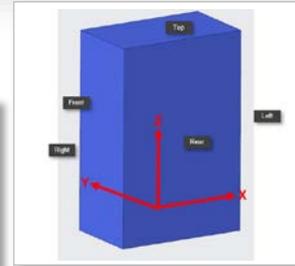2480MHz: Max=2.75 Avg=-0.53

Side to Side (XZ)
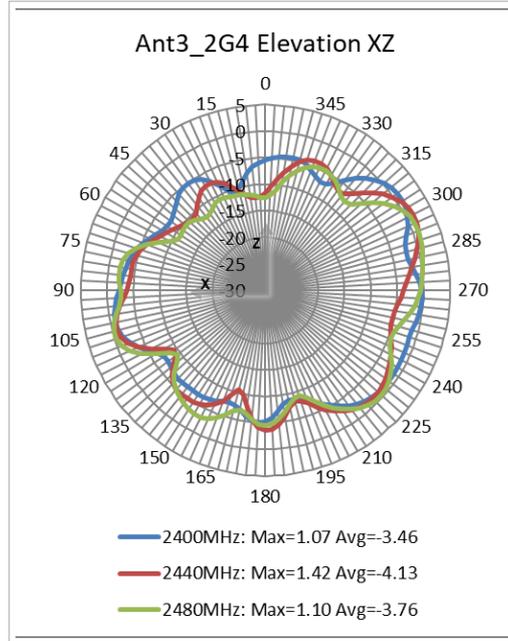
Ant2_2G4 Elevation YZ

2400MHz: Max=1.26 Avg=-2.90
2440MHz: Max=0.96 Avg=-3.18
2480MHz: Max=-0.09 Avg=-3.46

Front to Back (YZ)

Total Gain Patterns: Ant3_2G4
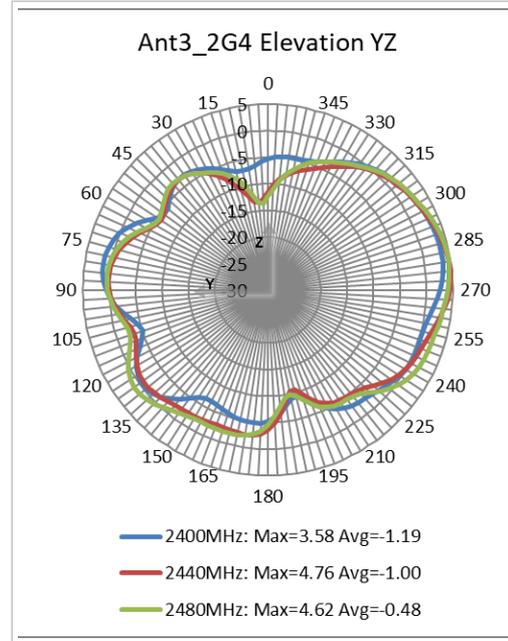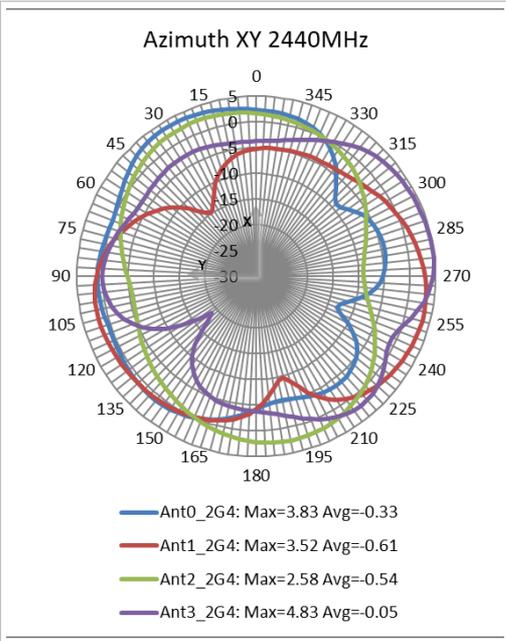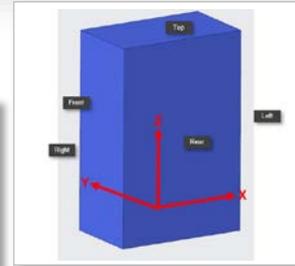

Ant3_2G4 Azimuth XY

2400MHz: Max=3.28 Avg=0.03
2440MHz: Max=4.83 Avg=-0.05
2480MHz: Max=4.45 Avg=0.17

Azimuth (XY)

Ant3_2G4 Elevation XZ

2400MHz: Max=1.07 Avg=-3.46
2440MHz: Max=1.42 Avg=-4.13
2480MHz: Max=1.10 Avg=-3.76

Side to Side (XZ)

Ant3_2G4 Elevation YZ

2400MHz: Max=3.58 Avg=-1.19
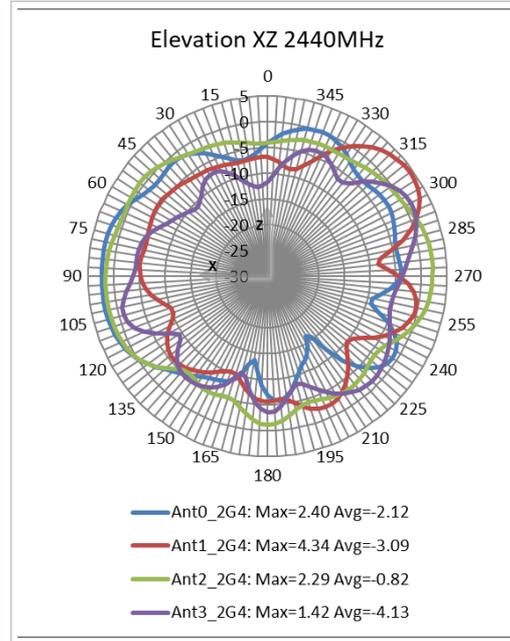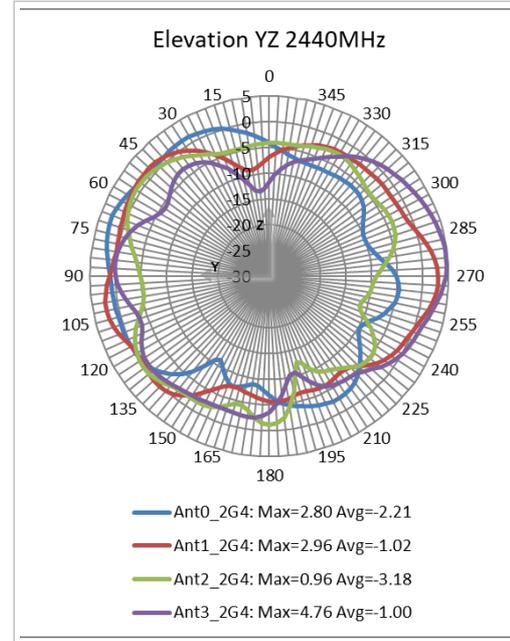2440MHz: Max=4.76 Avg=-1.00
2480MHz: Max=4.62 Avg=-0.48

Front to Back (YZ)

Coverage Total Gain Patterns: Wi-Fi Antennas at 2440MHz

Azimuth XY 2440MHz

Ant0_2G4: Max=3.83 Avg=-0.33
Ant1_2G4: Max=3.52 Avg=-0.61
Ant2_2G4: Max=2.58 Avg=-0.54
Ant3_2G4: Max=4.83 Avg=-0.05

Azimuth (XY)

Elevation XZ 2440MHz

Ant0_2G4: Max=2.40 Avg=-2.12
Ant1_2G4: Max=4.34 Avg=-3.09
Ant2_2G4: Max=2.29 Avg=-0.82
Ant3_2G4: Max=1.42 Avg=-4.13

Side to Side (XZ)

Elevation YZ 2440MHz

Ant0_2G4: Max=2.80 Avg=-2.21
Ant1_2G4: Max=2.96 Avg=-1.02
Ant2_2G4: Max=0.96 Avg=-3.18
Ant3_2G4: Max=4.76 Avg=-1.00

Front to Back (YZ)

Azimuth (XY)

Side to Side (XZ)

Front to Back (YZ)

Azimuth (XY)

Side to Side (XZ)

Front to Back (YZ)
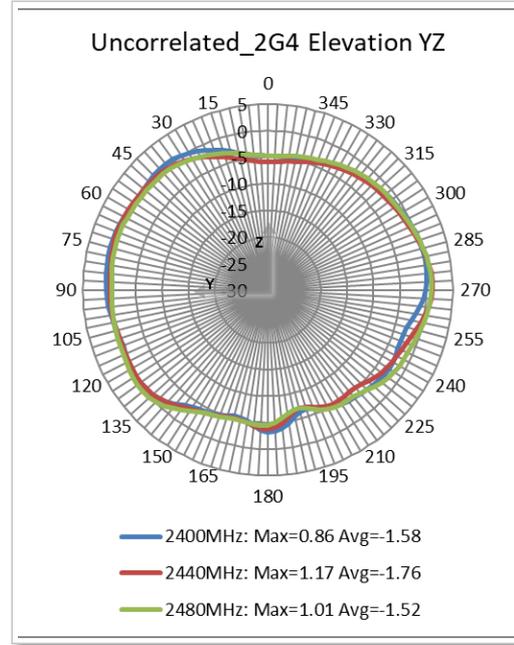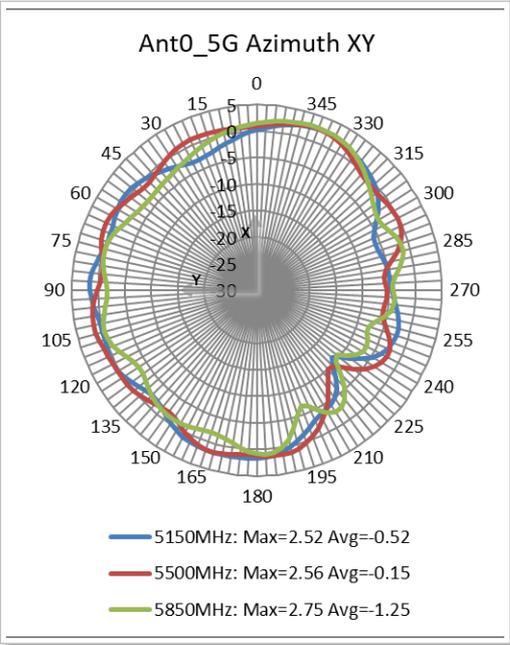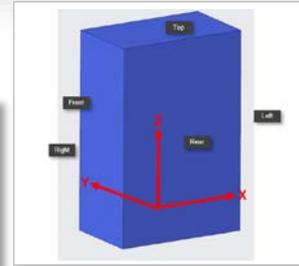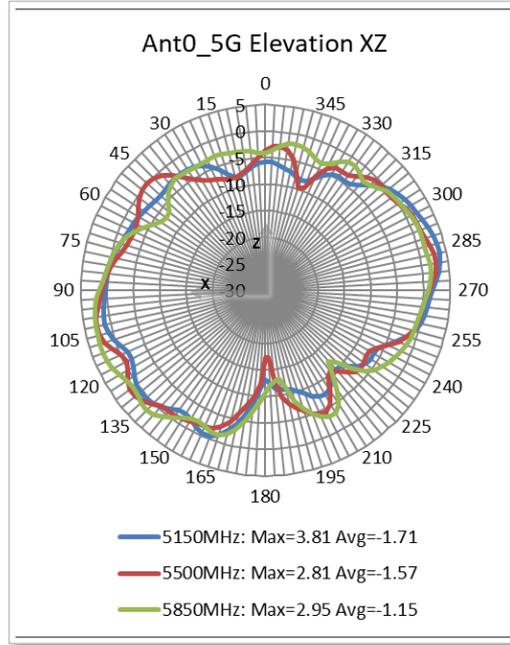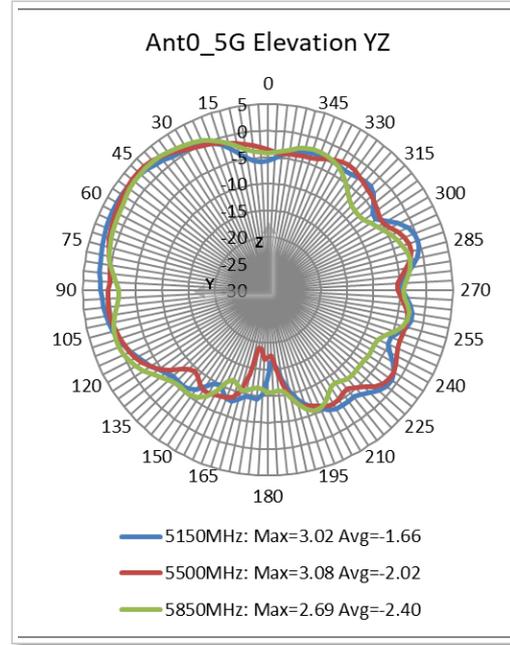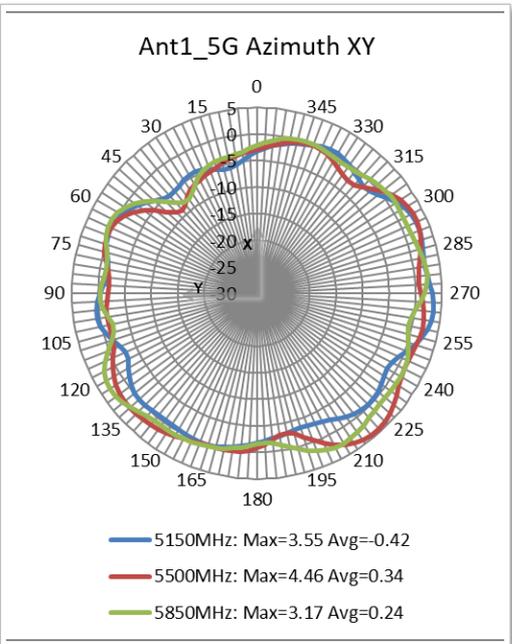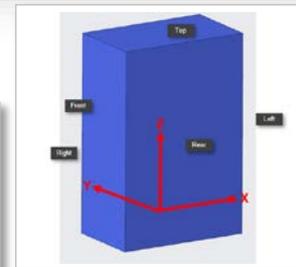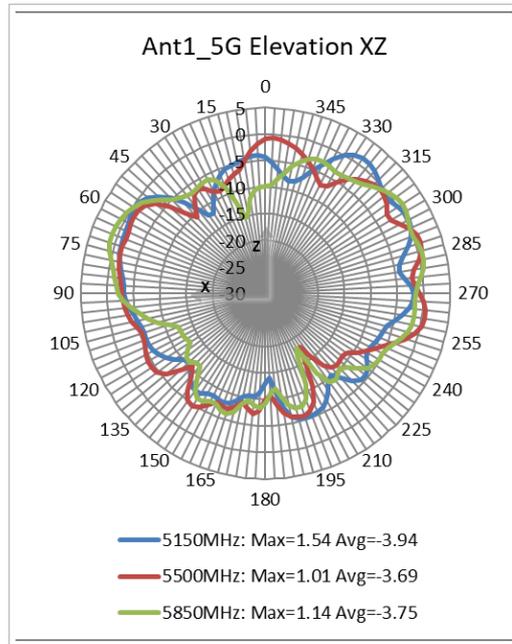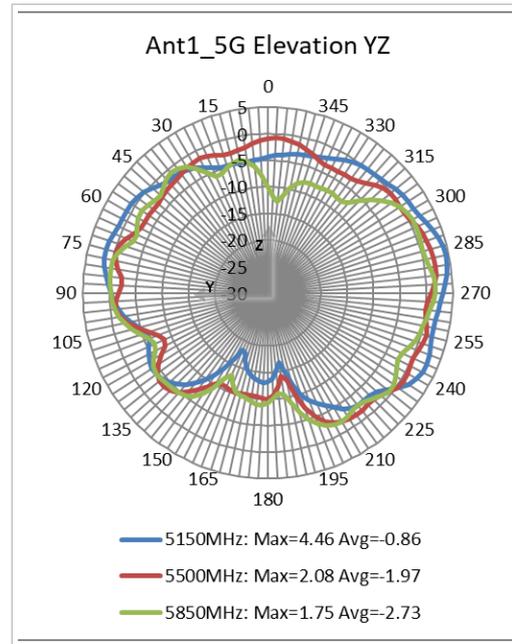
Total Gain Patterns: Ant1_5G

Ant1_5G Azimuth XY

5150MHz: Max=3.55 Avg=-0.42
5500MHz: Max=4.46 Avg=0.34
5850MHz: Max=3.17 Avg=0.24

Azimuth (XY)

Ant1_5G Elevation XZ

5150MHz: Max=1.54 Avg=-3.94
5500MHz: Max=1.01 Avg=-3.69
5850MHz: Max=1.14 Avg=-3.75

Side to Side (XZ)

Ant1_5G Elevation YZ

5150MHz: Max=4.46 Avg=-0.86
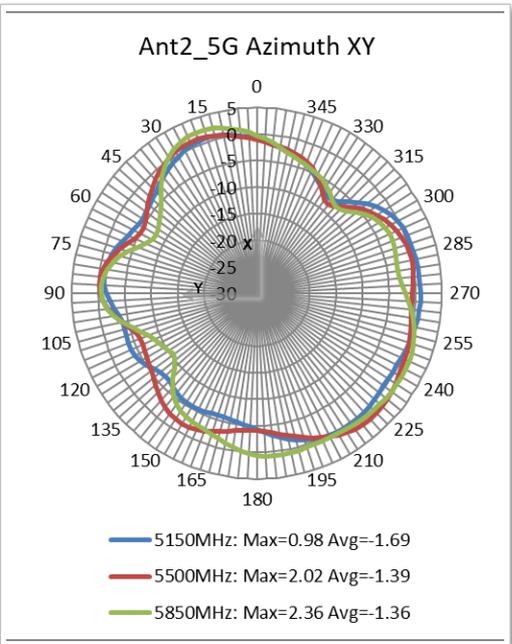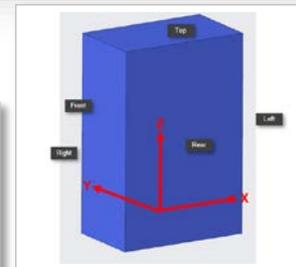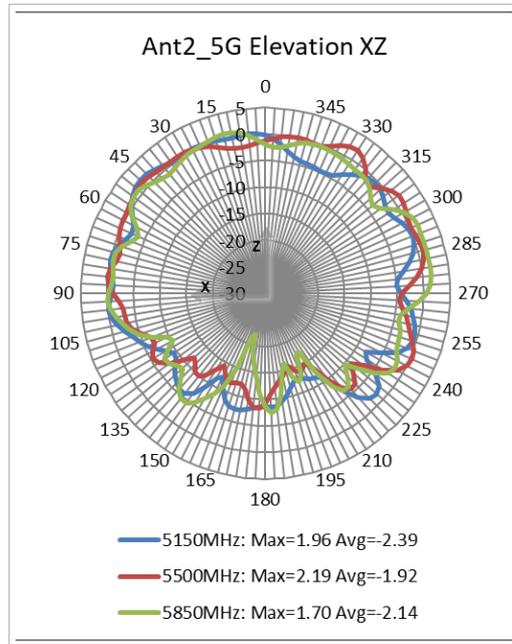5500MHz: Max=2.08 Avg=-1.97
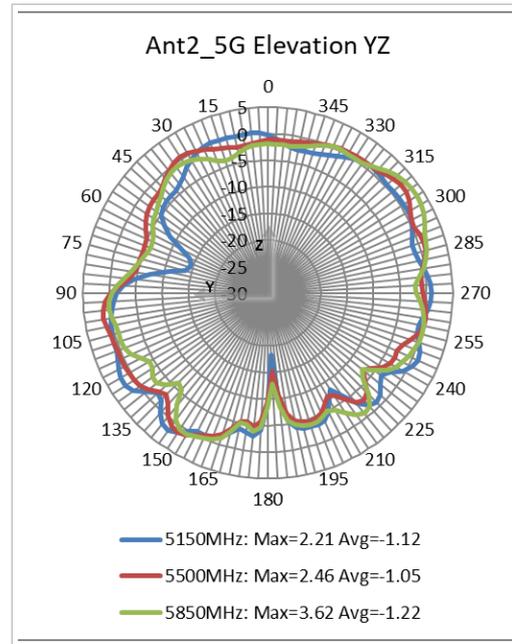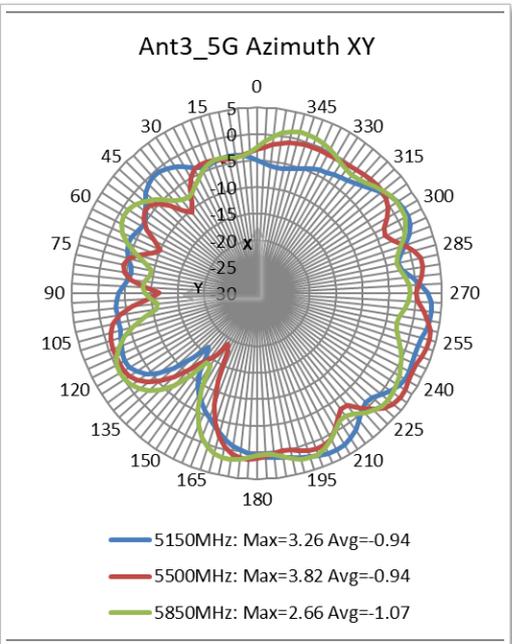5850MHz: Max=1.75 Avg=-2.73

Front to Back (YZ)

Azimuth (XY)

Side to Side (XZ)

Front to Back (YZ)

Ant3_5G Azimuth XY

5150MHz: Max=3.26 Avg=-0.94
5500MHz: Max=3.82 Avg=-0.94
5850MHz: Max=2.66 Avg=-1.07

Azimuth (XY)

Ant3_5G Elevation XZ

5150MHz: Max=1.25 Avg=-3.32
5500MHz: Max=1.23 Avg=-3.48
5850MHz: Max=0.95 Avg=-3.41

Side to Side (XZ)

Ant3_5G Elevation YZ

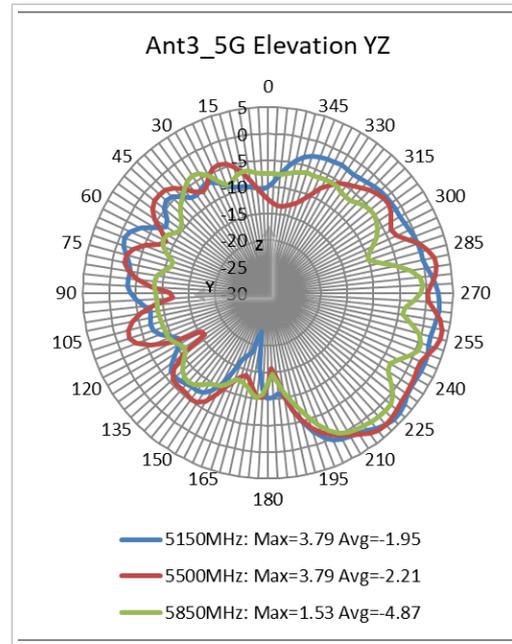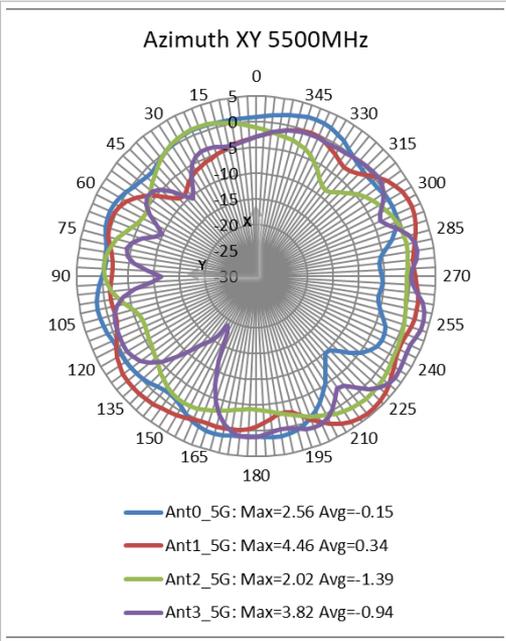5150MHz: Max=3.79 Avg=-1.95
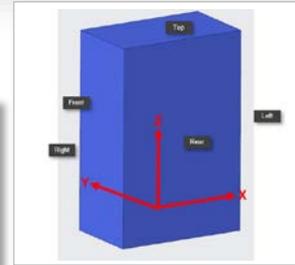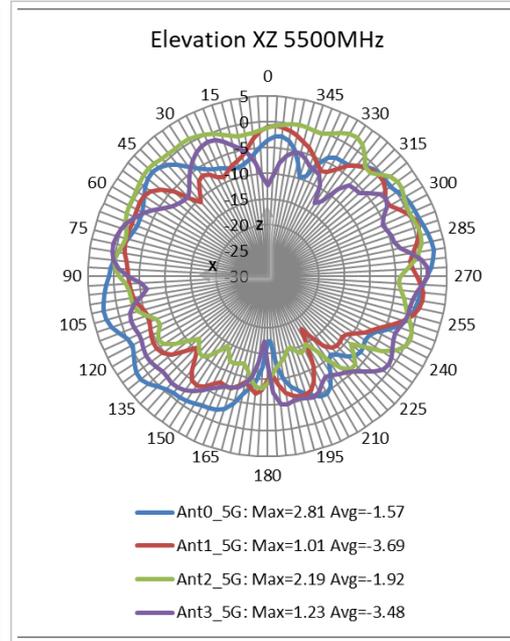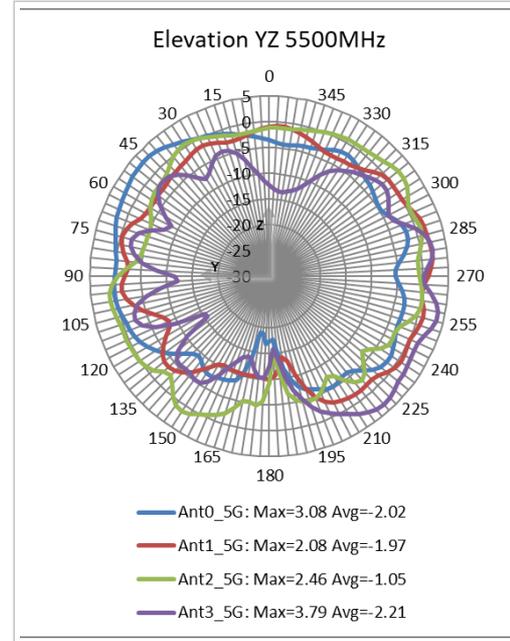5500MHz: Max=3.79 Avg=-2.21
5850MHz: Max=1.53 Avg=-4.87

Front to Back (YZ)

Coverage Total Gain Patterns: Wi-Fi Antennas at 5500MHz

Azimuth XY 5500MHz

Ant0_5G: Max=2.56 Avg=-0.15
Ant1_5G: Max=4.46 Avg=0.34
Ant2_5G: Max=2.02 Avg=-1.39
Ant3_5G: Max=3.82 Avg=-0.94

Azimuth (XY)

Elevation XZ 5500MHz

Ant0_5G: Max=2.81 Avg=-1.57
Ant1_5G: Max=1.01 Avg=-3.69
Ant2_5G: Max=2.19 Avg=-1.92
Ant3_5G: Max=1.23 Avg=-3.48

Side to Side (XZ)

Elevation YZ 5500MHz

Ant0_5G: Max=3.08 Avg=-2.02
Ant1_5G: Max=2.08 Avg=-1.97
Ant2_5G: Max=2.46 Avg=-1.05
Ant3_5G: Max=3.79 Avg=-2.21

Front to Back (YZ)

Uncorrelated_5G Azimuth XY

5150MHz: Max=1.80 Avg=-0.86
5500MHz: Max=1.76 Avg=-0.48
5850MHz: Max=0.68 Avg=-0.81

Azimuth (XY)

Uncorrelated_5G Elevation XZ

5150MHz: Max=0.82 Avg=-2.76
5500MHz: Max=0.48 Avg=-2.57
5850MHz: Max=0.77 Avg=-2.49

Side to Side (XZ)

Uncorrelated_5G Elevation YZ

5150MHz: Max=1.31 Avg=-1.38
5500MHz: Max=1.05 Avg=-1.79
5850MHz: Max=-0.21 Avg=-2.62

Front to Back (YZ)
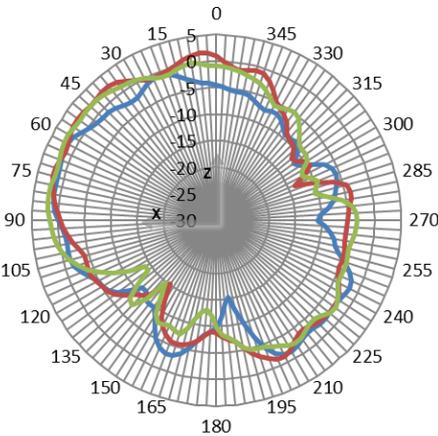
Ant0_6G Azimuth XY

5925MHz: Max=1.74 Avg=-0.83
6500MHz: Max=3.36 Avg=-0.96
7125MHz: Max=1.61 Avg=-1.21

Azimuth (XY)
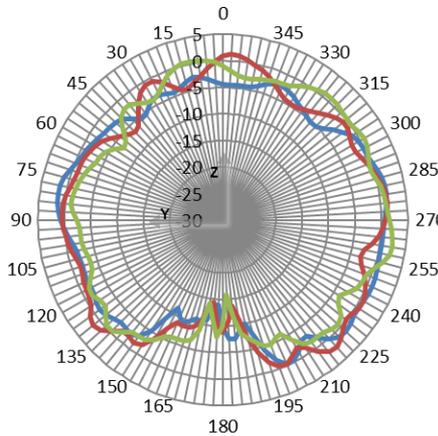
Ant0_6G Elevation XZ

5925MHz: Max=1.81 Avg=-3.32
6500MHz: Max=2.51 Avg=-2.12
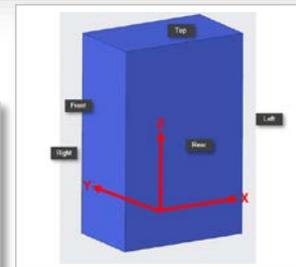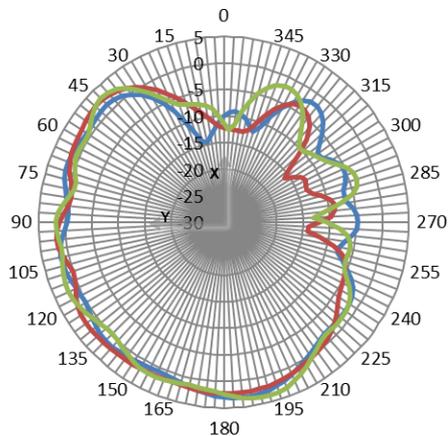7125MHz: Max=2.37 Avg=-2.26

Side to Side (XZ)

Ant0_6G Elevation YZ

5925MHz: Max=1.56 Avg=-1.70
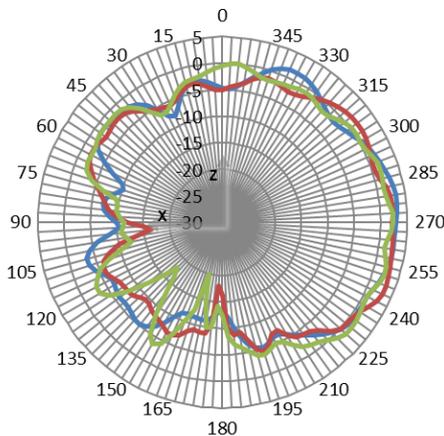6500MHz: Max=2.25 Avg=-1.36
7125MHz: Max=2.50 Avg=-1.65

Front to Back (YZ)

Ant1_6G Azimuth XY

5925MHz: Max=3.18 Avg=-0.75
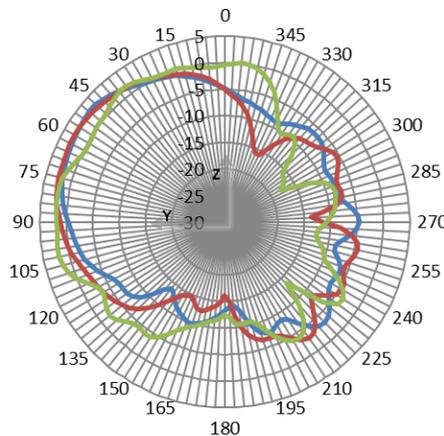6500MHz: Max=2.72 Avg=-0.66
7125MHz: Max=3.81 Avg=-0.41

Azimuth (XY)

Ant1_6G Elevation XZ

5925MHz: Max=3.27 Avg=-1.77
6500MHz: Max=3.38 Avg=-1.97
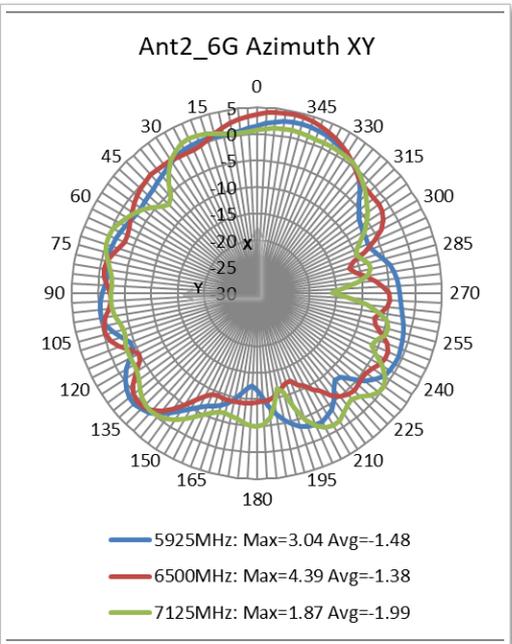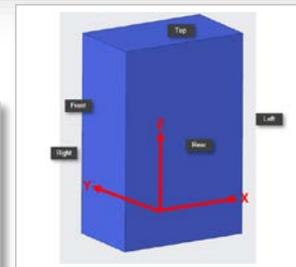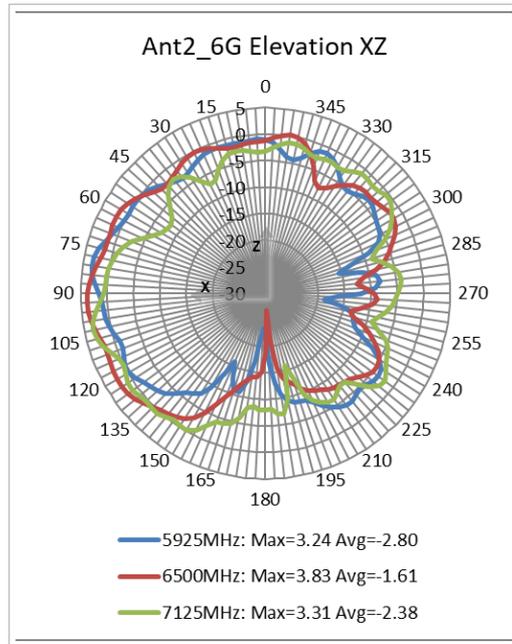7125MHz: Max=2.43 Avg=-1.87

Side to Side (XZ)

Ant1_6G Elevation YZ

5925MHz: Max=3.00 Avg=-3.19
6500MHz: Max=2.84 Avg=-2.76
7125MHz: Max=2.14 Avg=-2.53

Front to Back (YZ)

Ant2_6G Azimuth XY
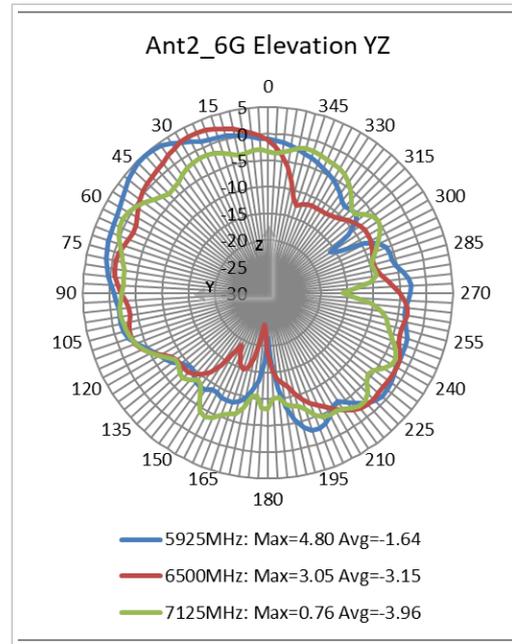
5925MHz: Max=3.04 Avg=-1.48
6500MHz: Max=4.39 Avg=-1.38
7125MHz: Max=1.87 Avg=-1.99

Azimuth (XY)

Ant2_6G Elevation XZ

5925MHz: Max=3.24 Avg=-2.80
6500MHz: Max=3.83 Avg=-1.61
7125MHz: Max=3.31 Avg=-2.38

Side to Side (XZ)

Ant2_6G Elevation YZ

5925MHz: Max=4.80 Avg=-1.64
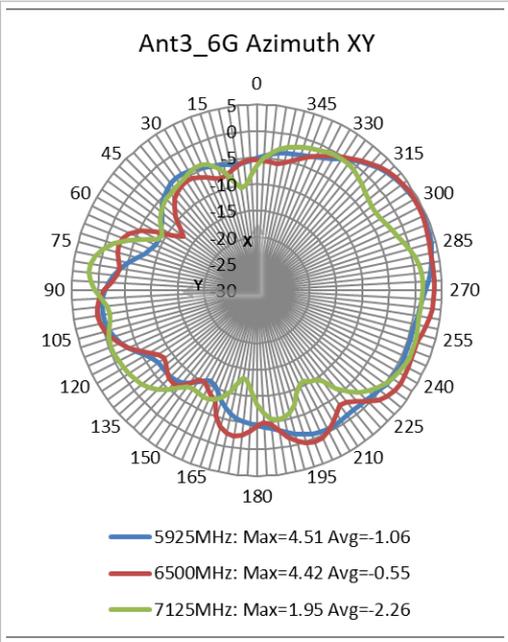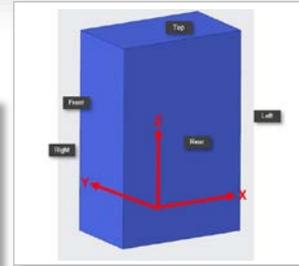6500MHz: Max=3.05 Avg=-3.15
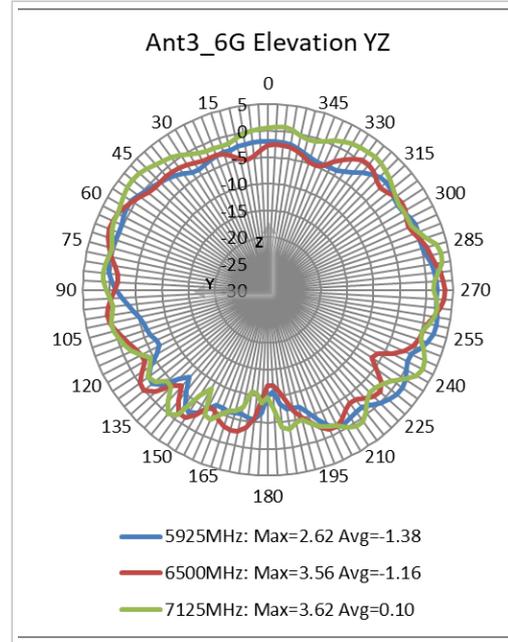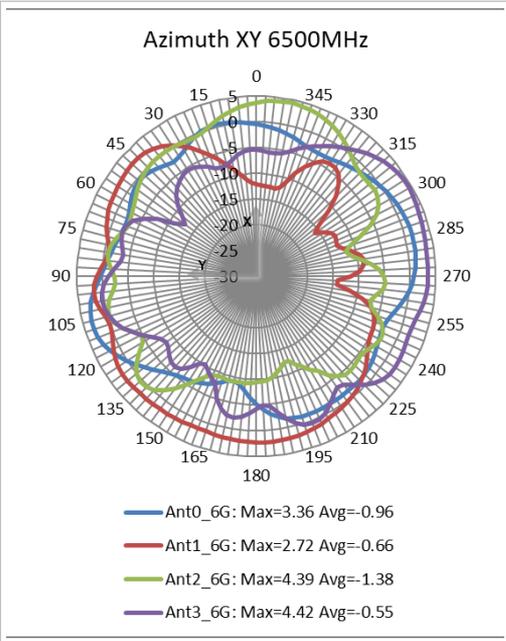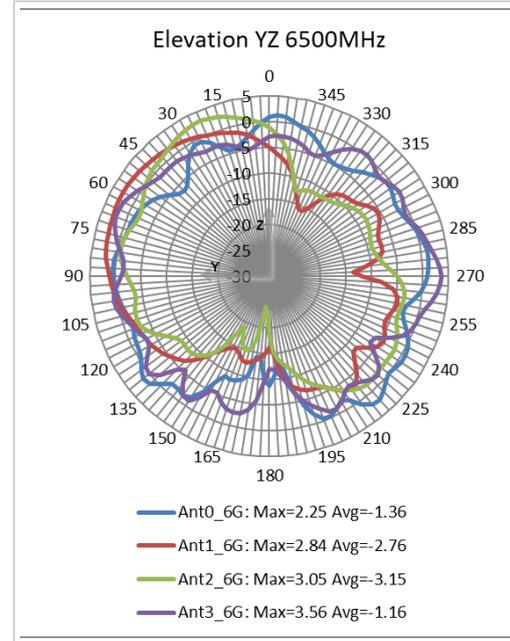7125MHz: Max=0.76 Avg=-3.96

Front to Back (YZ)

Azimuth (XY)

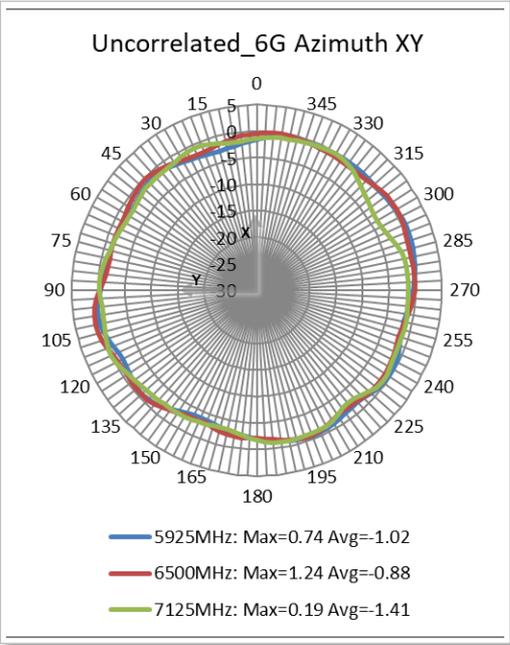Side to Side (XZ)

Front to Back (YZ)

Azimuth XY 6500MHz

- Ant0_6G: Max=3.36 Avg=-0.96
- Ant1_6G: Max=2.72 Avg=-0.66
- Ant2_6G: Max=4.39 Avg=-1.38
- Ant3_6G: Max=4.42 Avg=-0.55
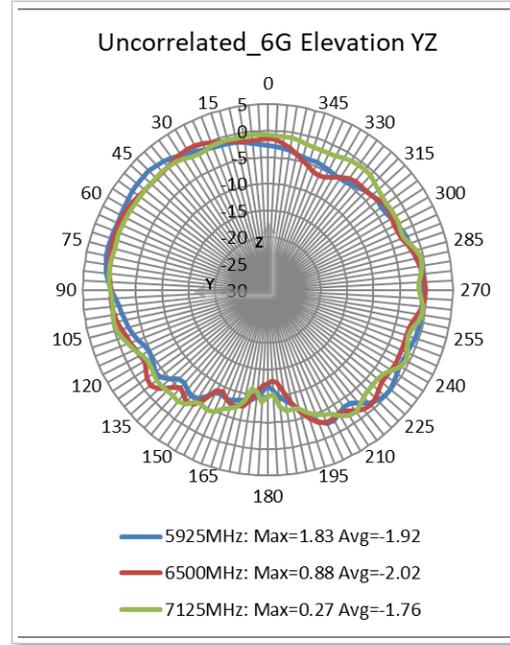
Azimuth (XY)

Elevation XZ 6500MHz

- Ant0_6G: Max=2.51 Avg=-2.12
- Ant1_6G: Max=3.38 Avg=-1.97
- Ant2_6G: Max=3.83 Avg=-1.61
- Ant3_6G: Max=0.18 Avg=-3.78

Side to Side (XZ)

Elevation YZ 6500MHz

- Ant0_6G: Max=2.25 Avg=-1.36
- Ant1_6G: Max=2.84 Avg=-2.76
- Ant2_6G: Max=3.05 Avg=-3.15
- Ant3_6G: Max=3.56 Avg=-1.16
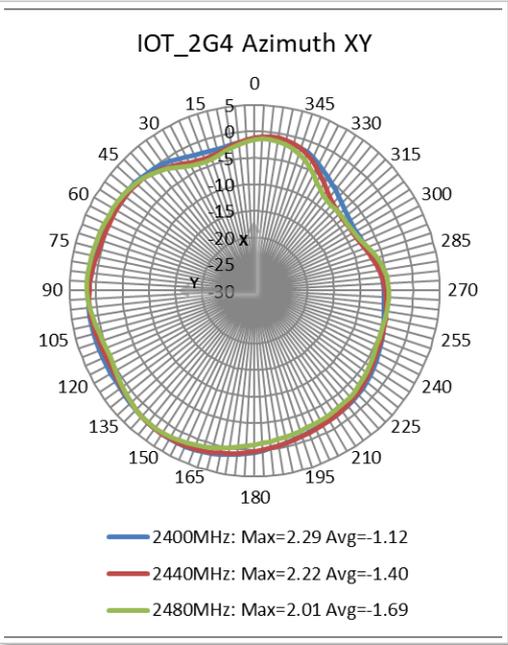
Front to Back (YZ)

Azimuth (XY)

Side to Side (XZ)
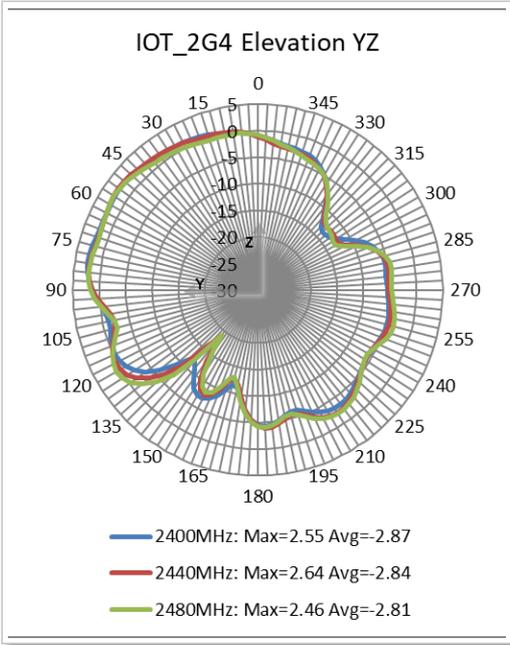
Front to Back (YZ)

Azimuth (XY)

Side to Side (XZ)

Front to Back (YZ)