

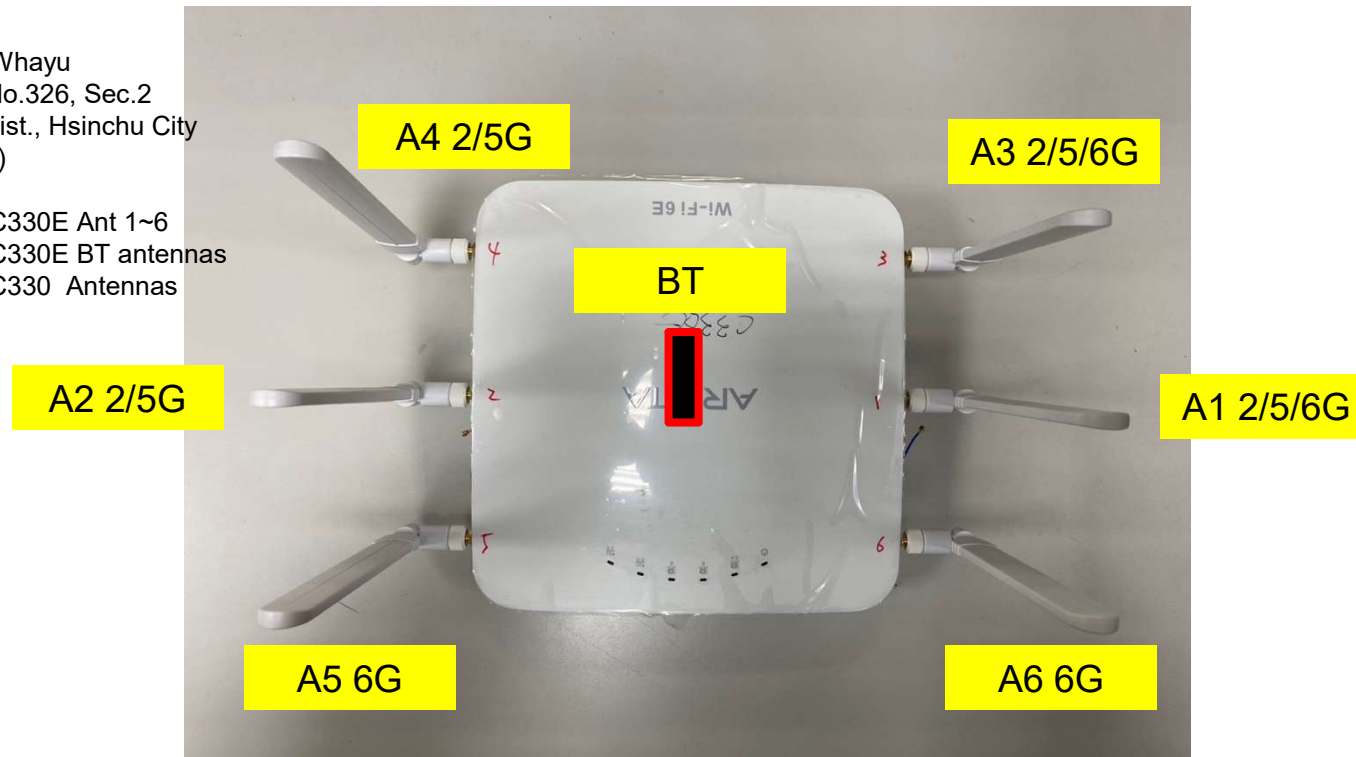


C330E DVT Antenna Test Report



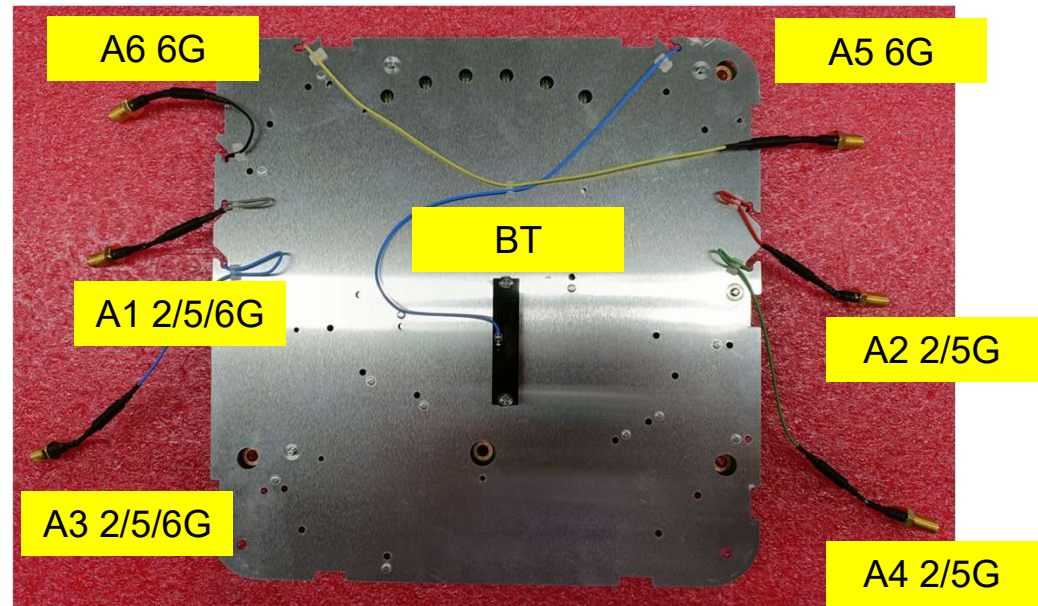
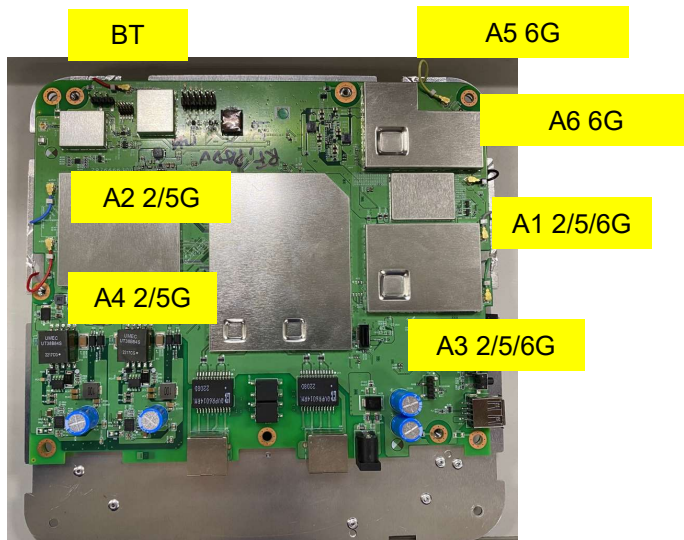
Antenna Location

Antenna Manufacturer: Whayu
Manufacturer address: No.326, Sec.2
Gongdao 5th Rd., East Dist., Hsinchu City
300042, Taiwan.(R.O.C.)
Model number:
C393-510225-A for AP-C330E Ant 1~6
C393-510224-A for AP-C330E BT antennas
C393-510223-A for AP-C330 Antennas





Antenna Location



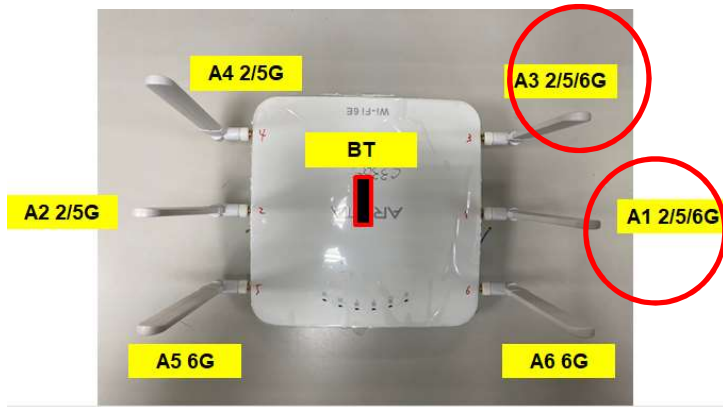


Test Method for S Parameter



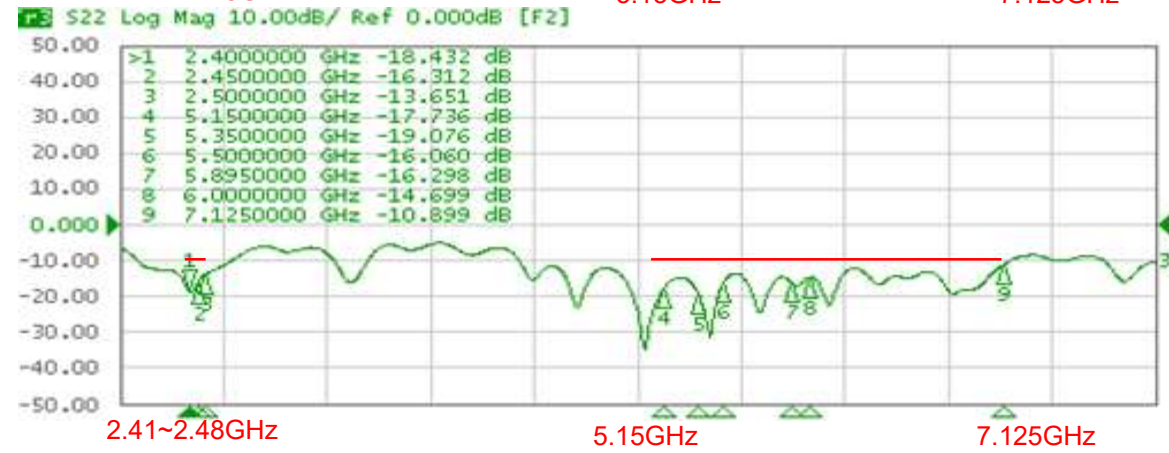
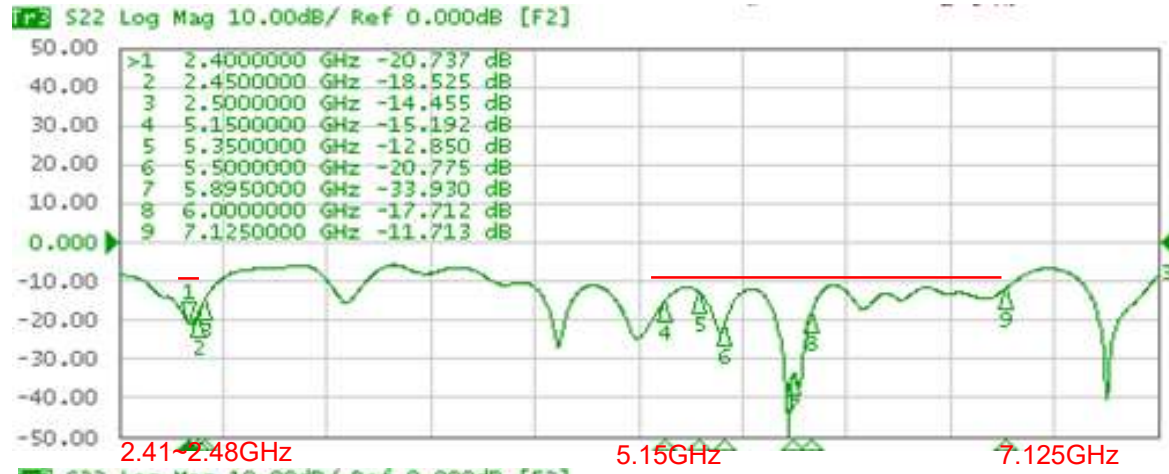
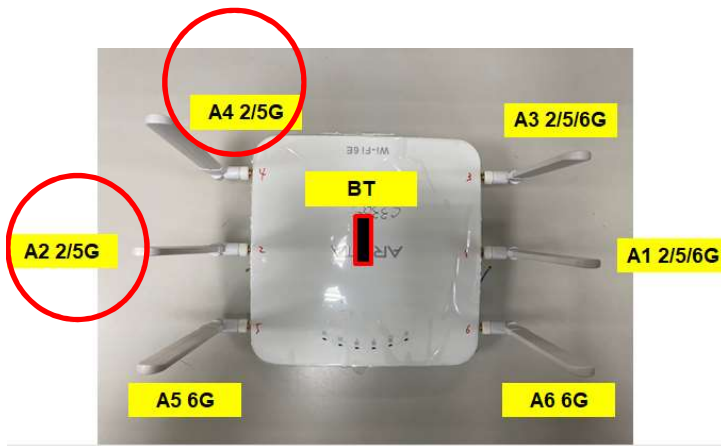


Antenna Return Loss _ Ant1&3



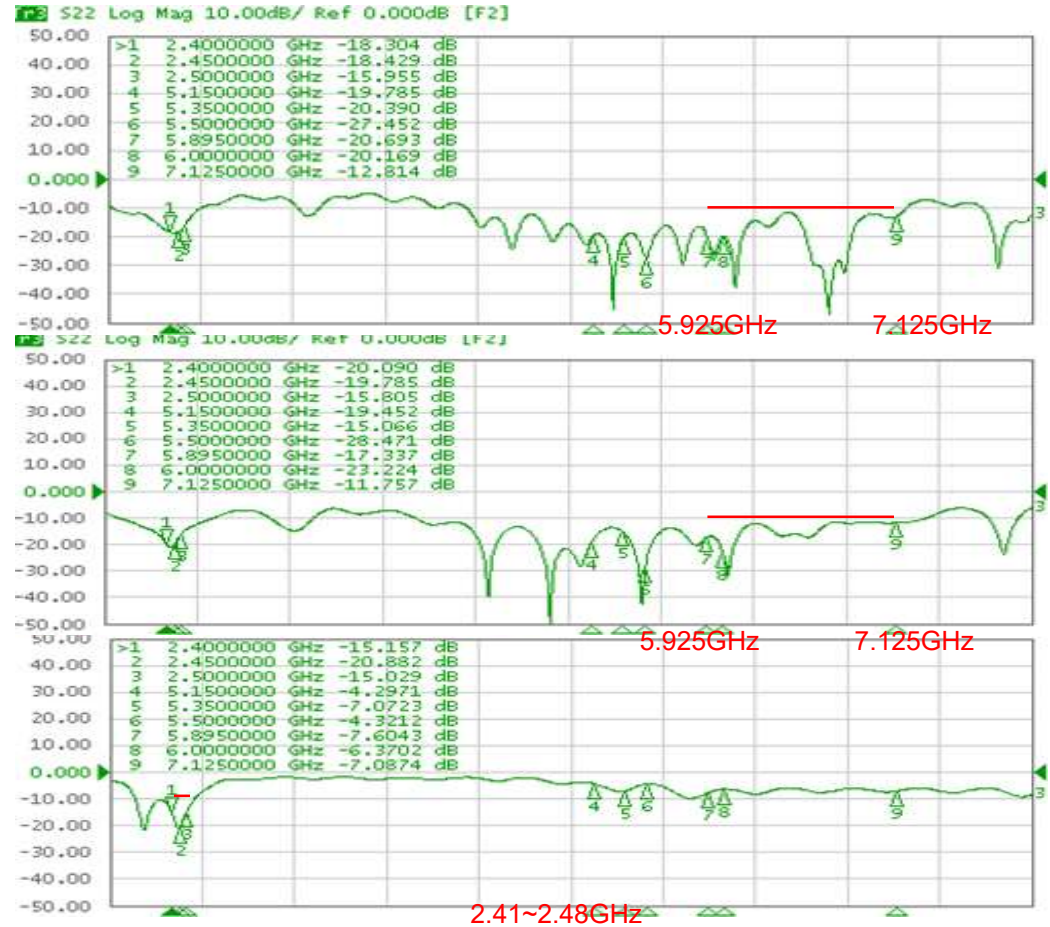
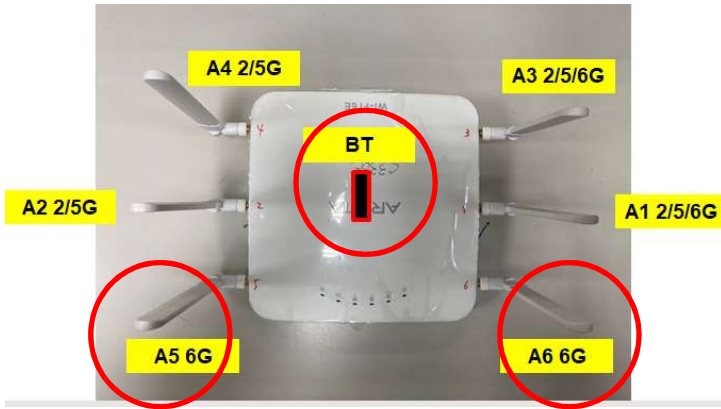


Antenna Return Loss _ Ant2&4



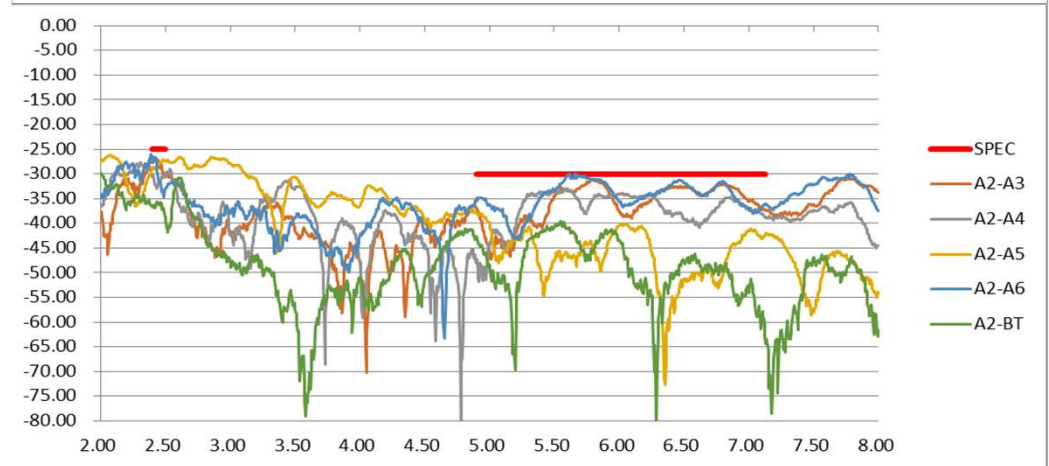
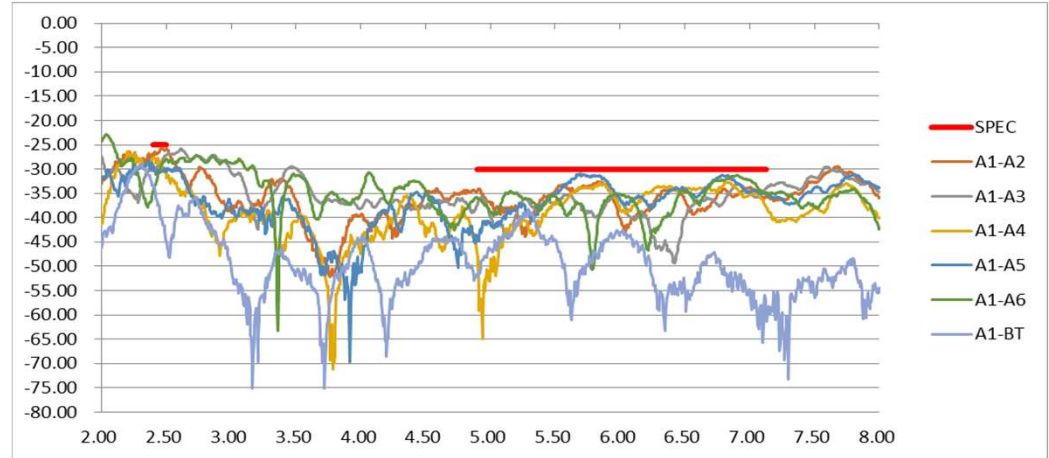
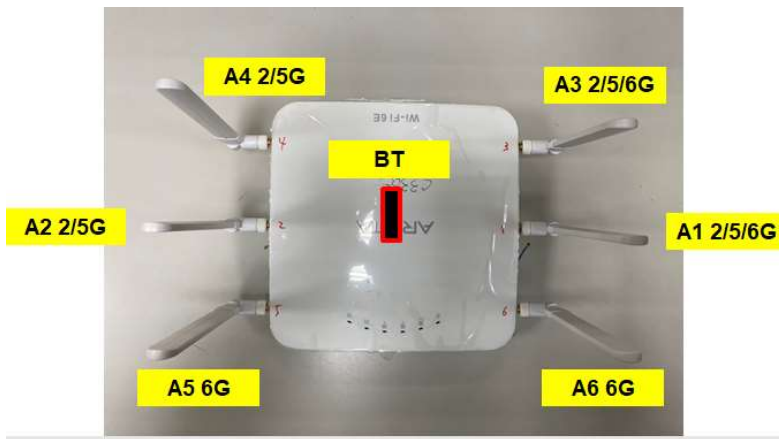


Antenna Return Loss _ Ant5&6&7



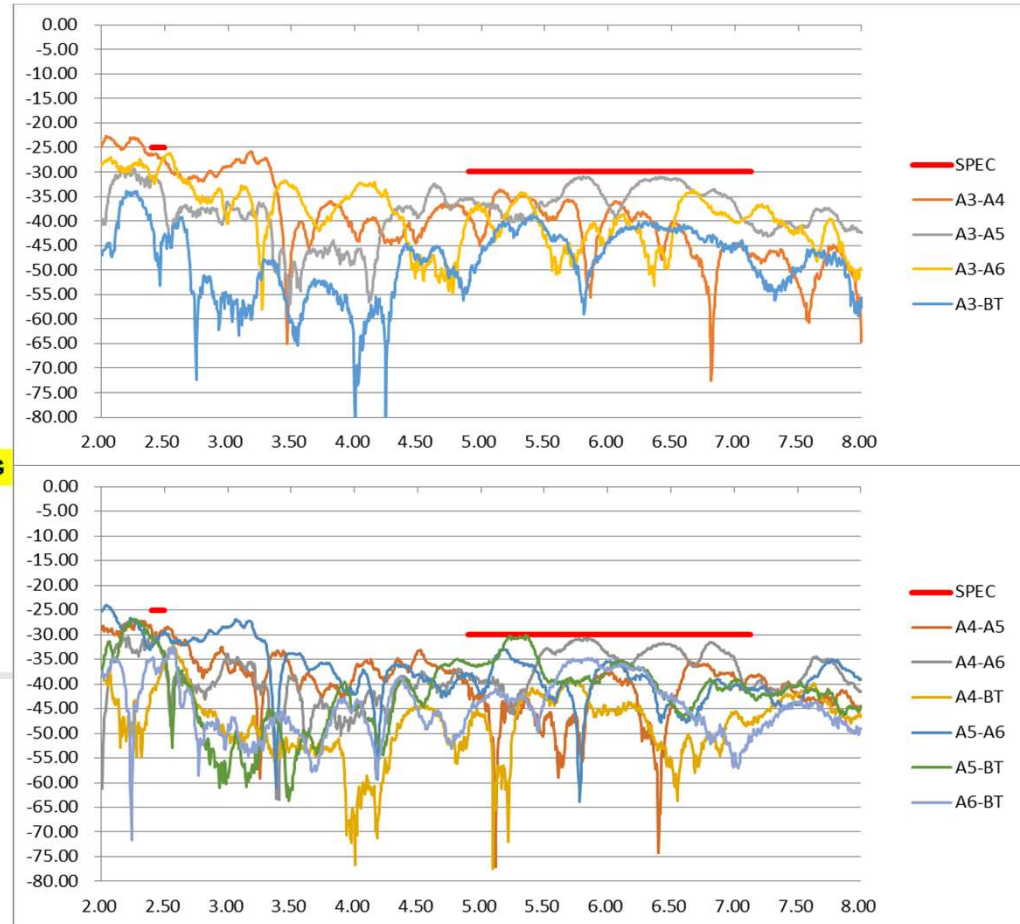
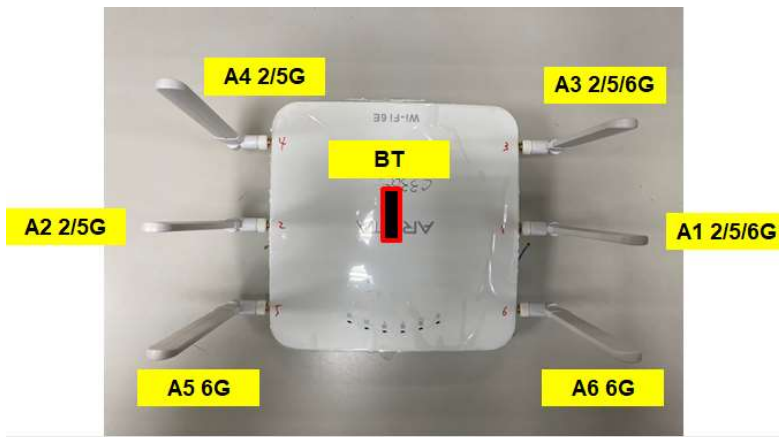


Antenna Isolation(1/2)





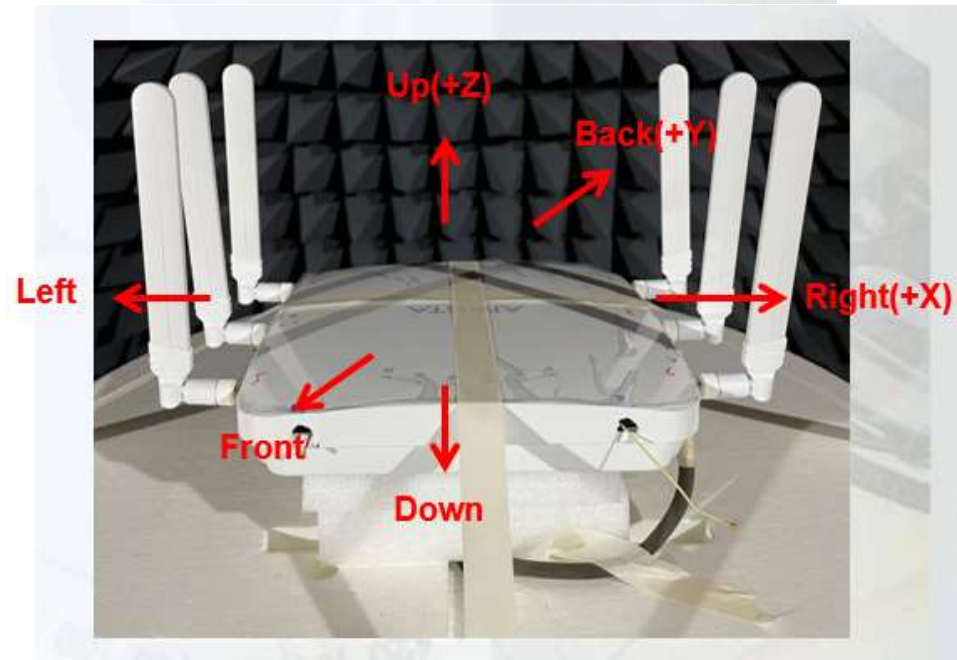
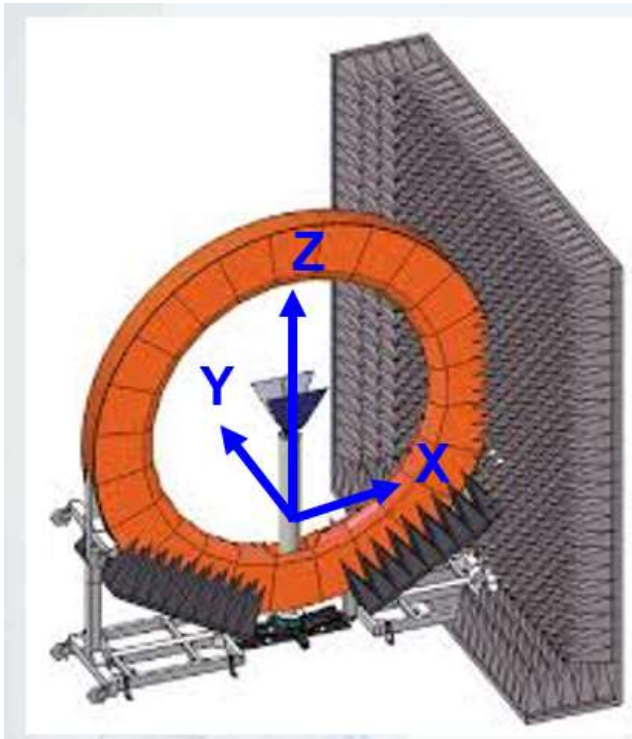
Antenna Isolation(2/2)



Test Method for Radiation Pattern

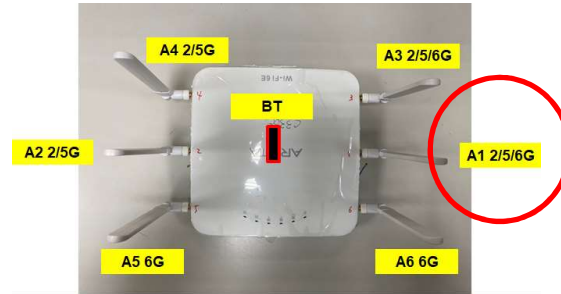
- **SATIMO SG-24L Multi-Probe Antenna Measurement System**

- Angle between probes: 15°
- Frequency range: 400 MHz – 8.5 GHz
- Chamber Room Size: 5m L x 5m W x 5m H

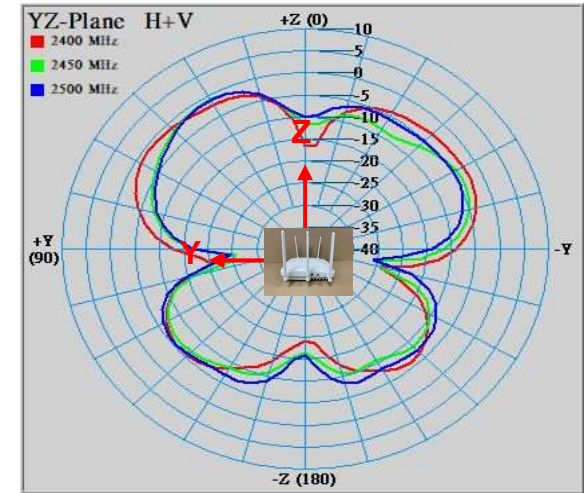
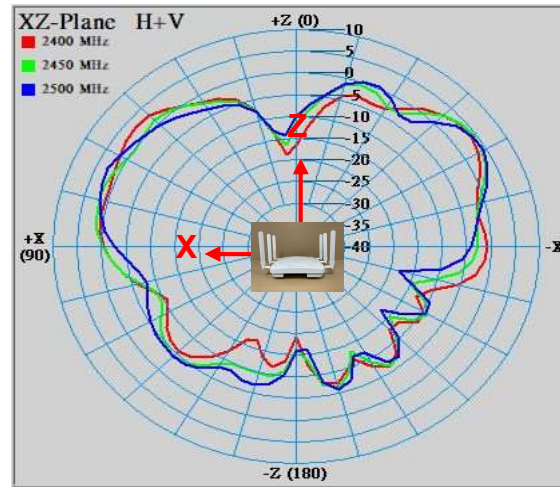
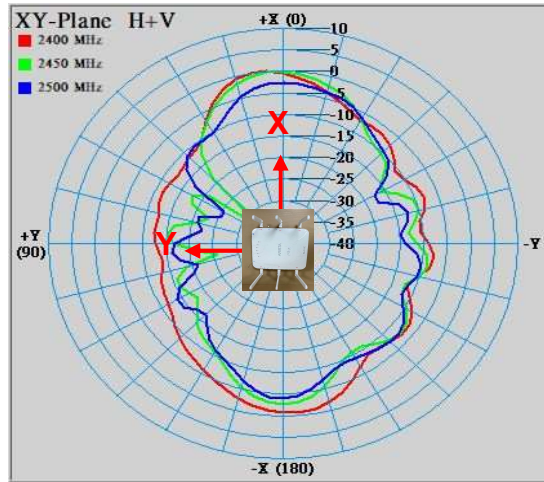




2D Radiation Pattern Ant 1

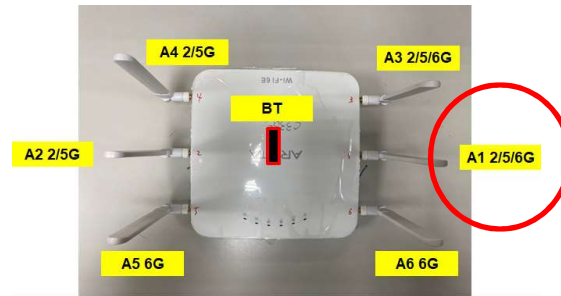


2.45GHz

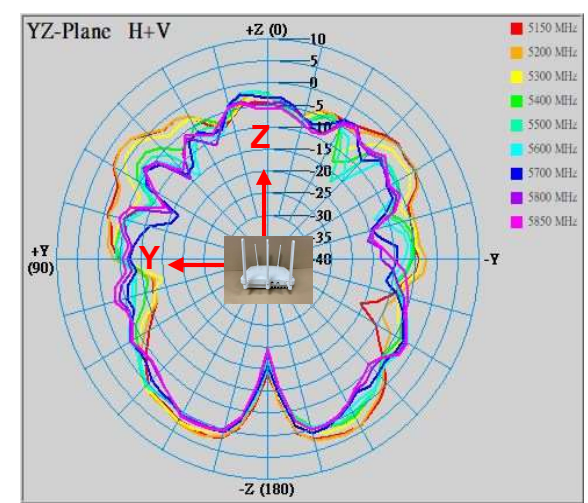
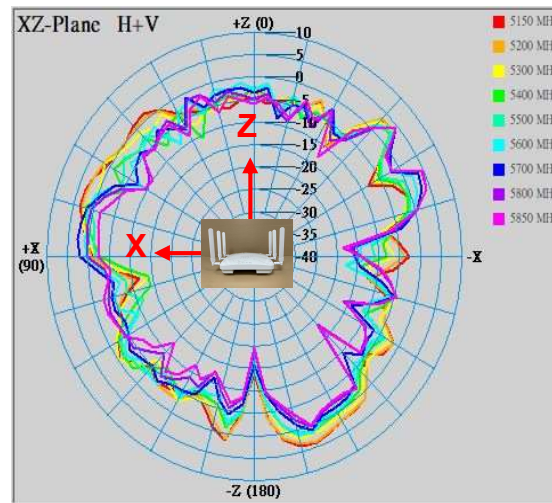
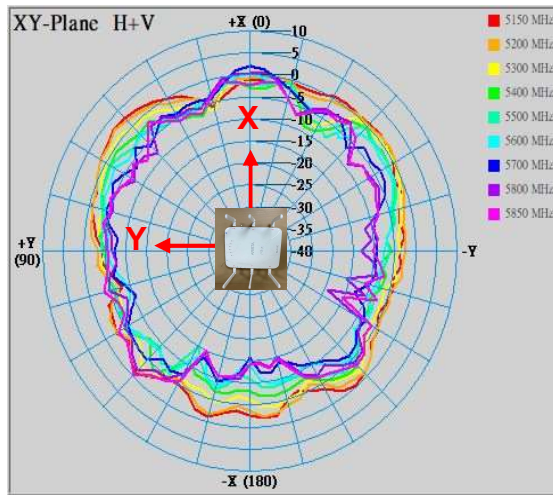




2D Radiation Pattern Ant 1

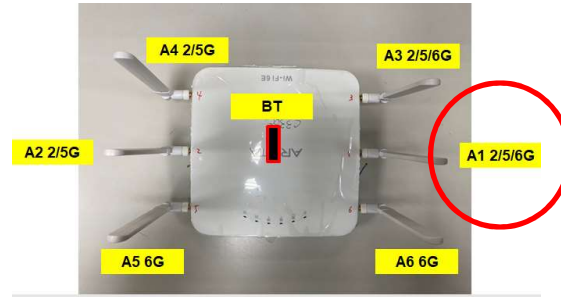


5.5GHz

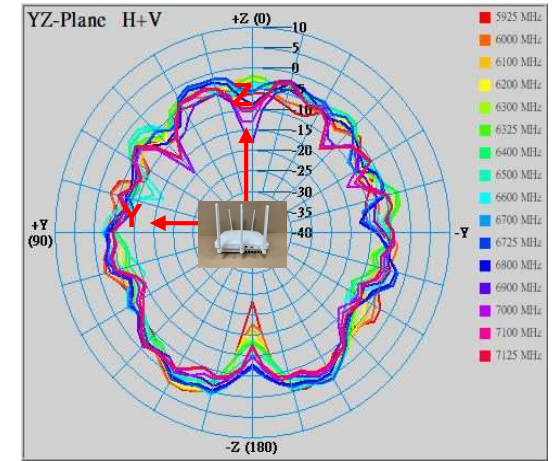
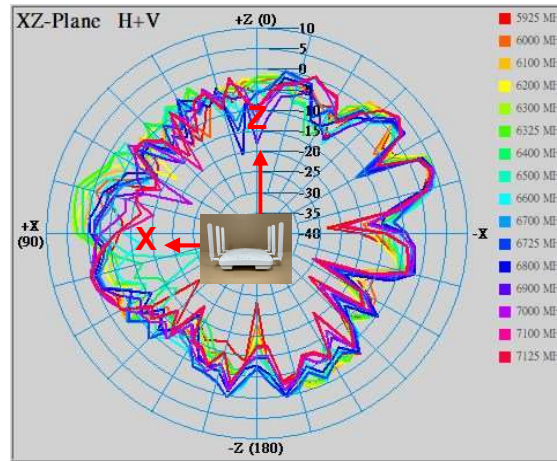
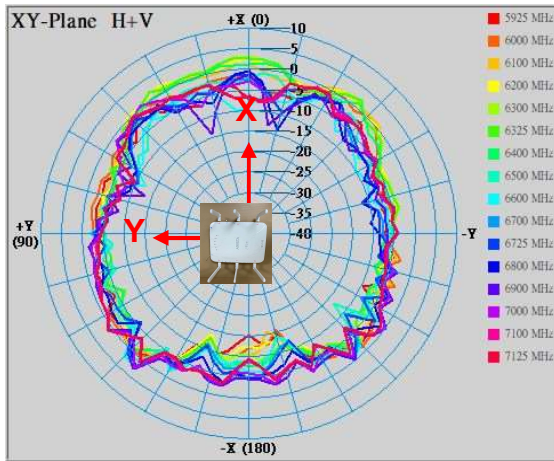




2D Radiation Pattern Ant 1

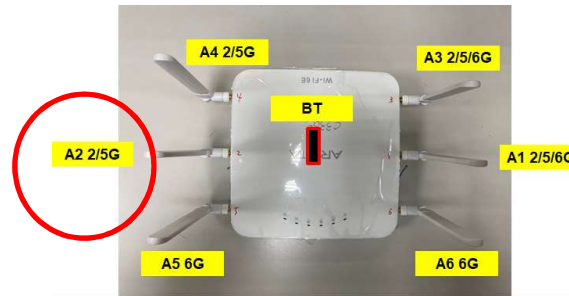


6.5GHz

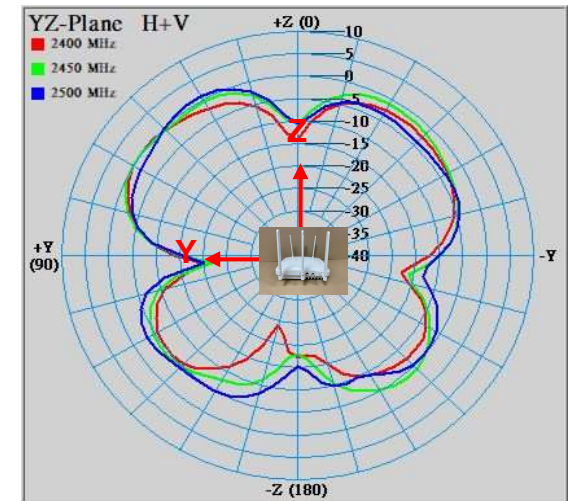
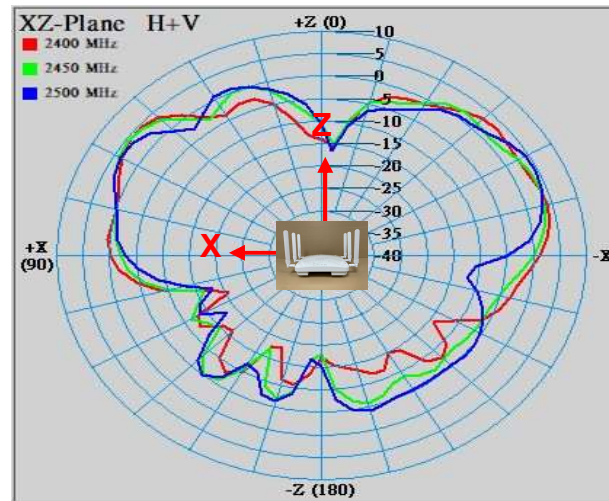
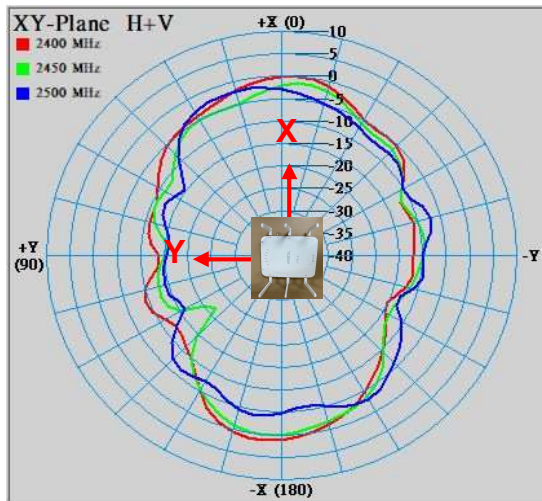




2D Radiation Pattern Ant 2

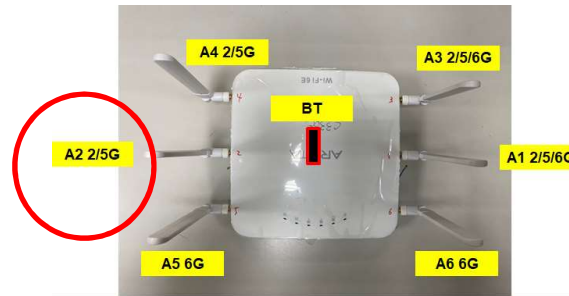


2.45GHz

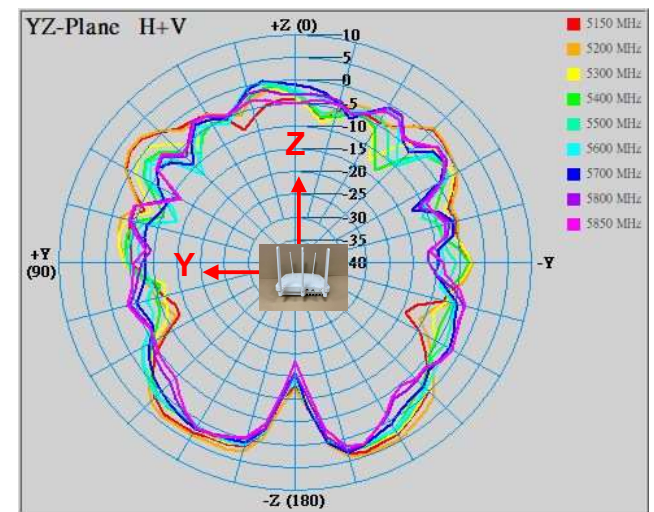
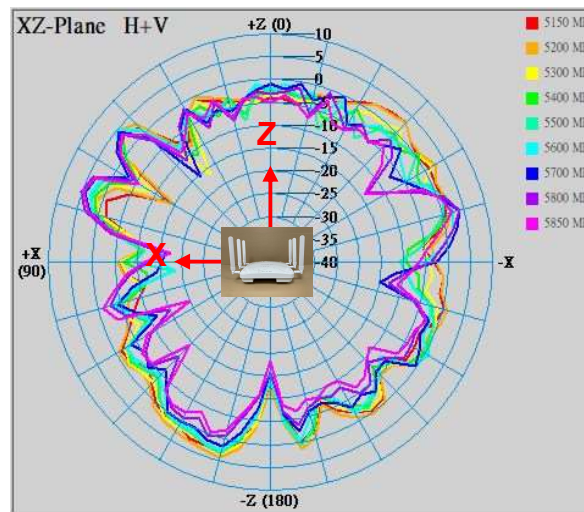
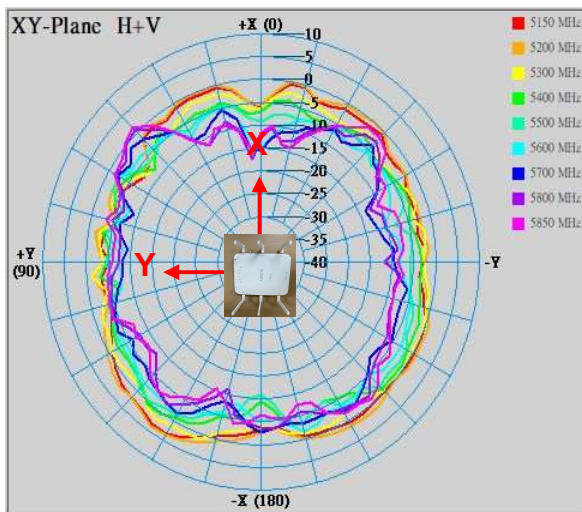




2D Radiation Pattern Ant 2

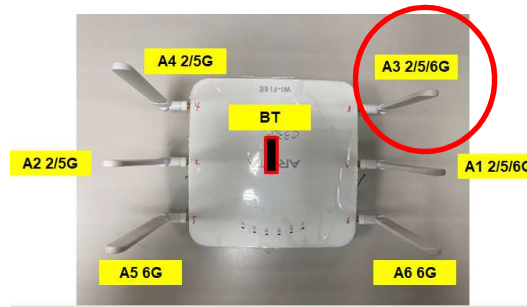


5.5GHz

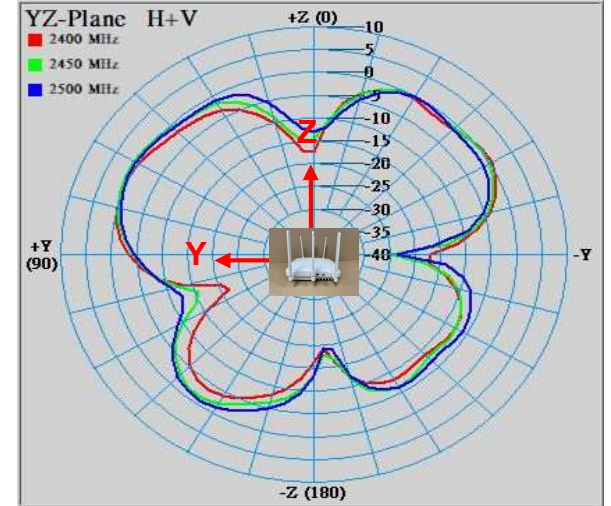
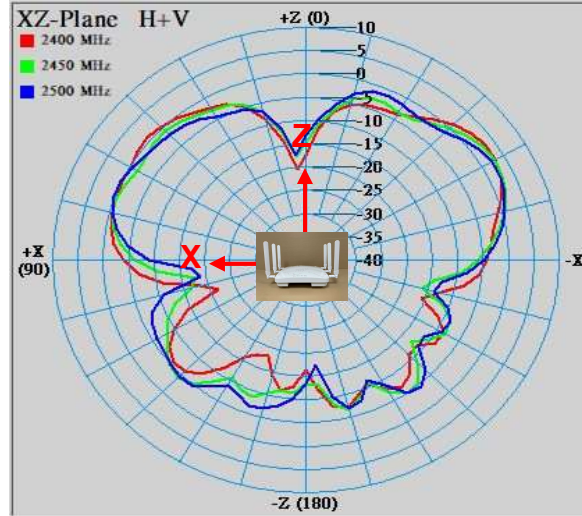
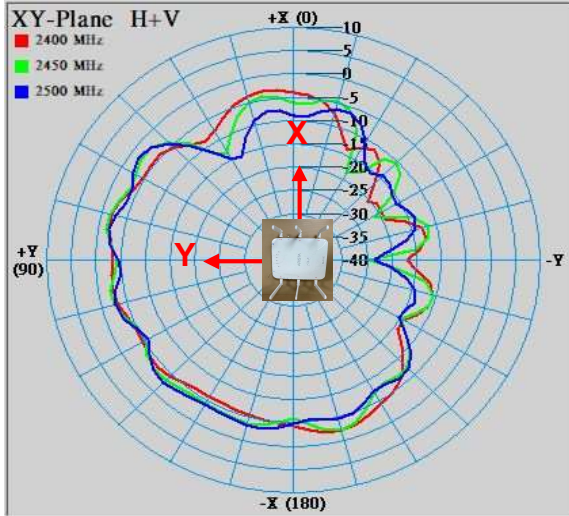




2D Radiation Pattern Ant 3

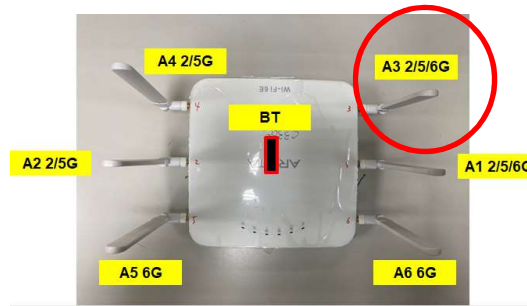


2.45GHz

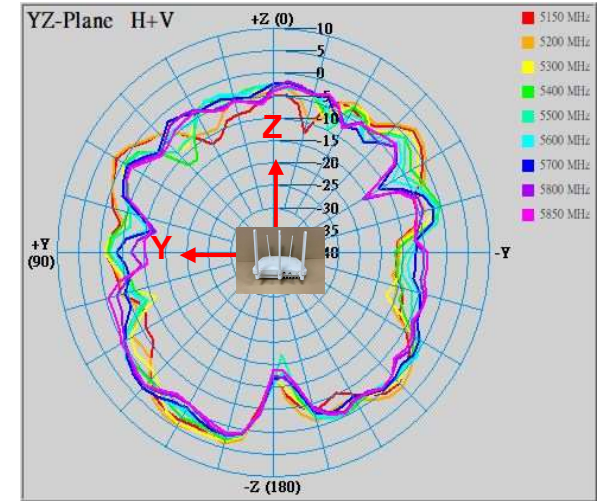
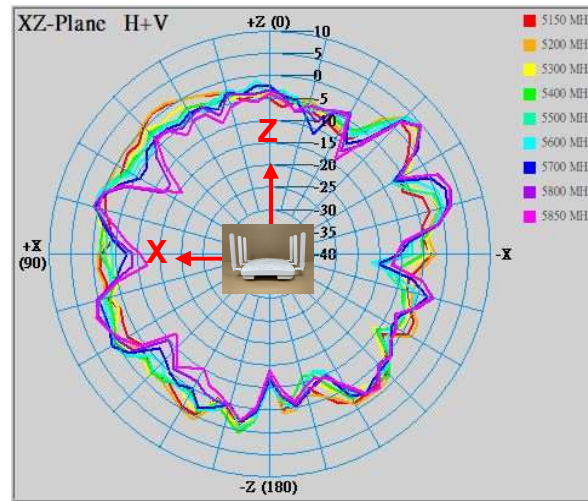
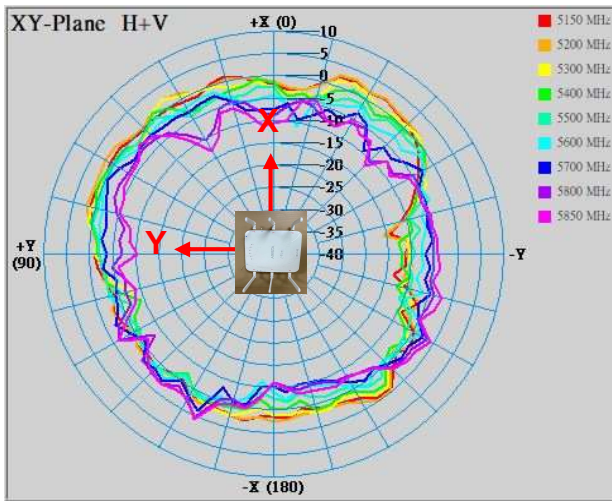




2D Radiation Pattern Ant 3

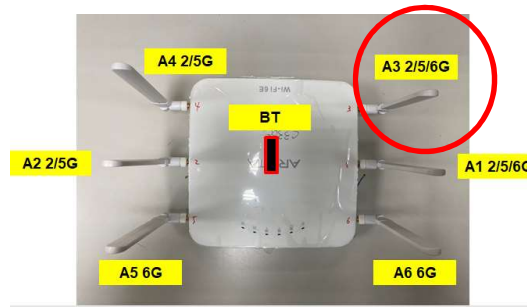


5.5GHz

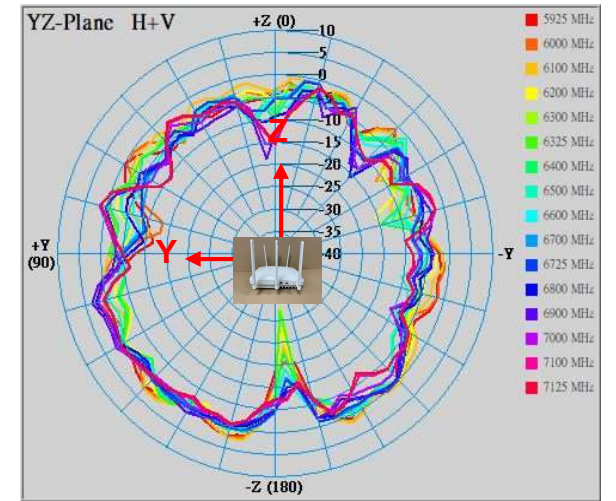
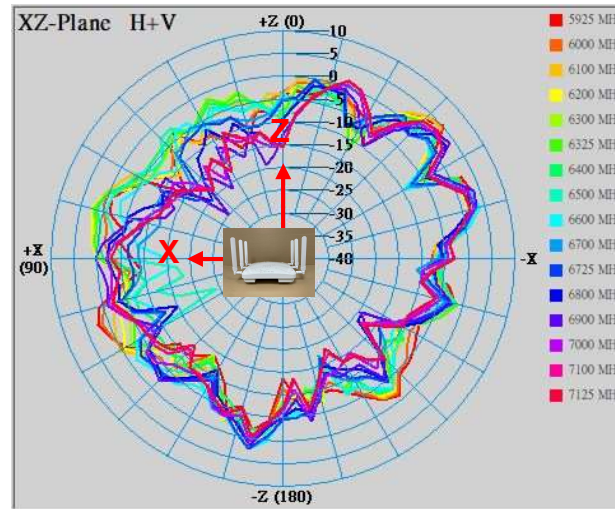
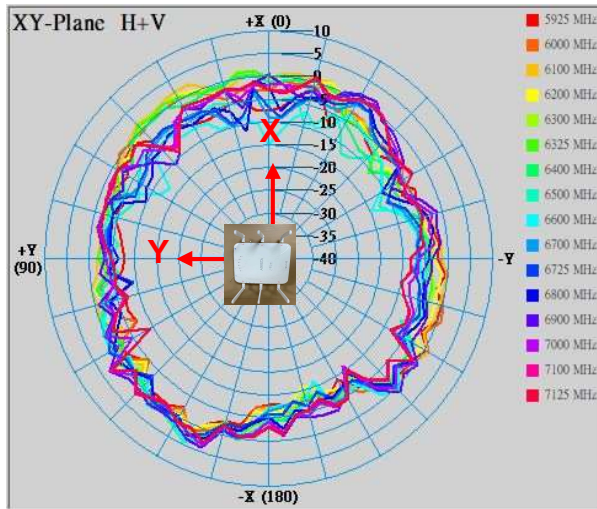




2D Radiation Pattern Ant 3

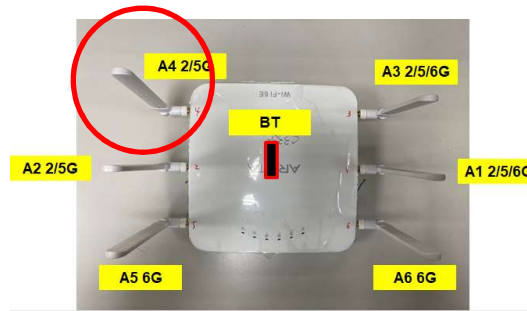


6.5GHz

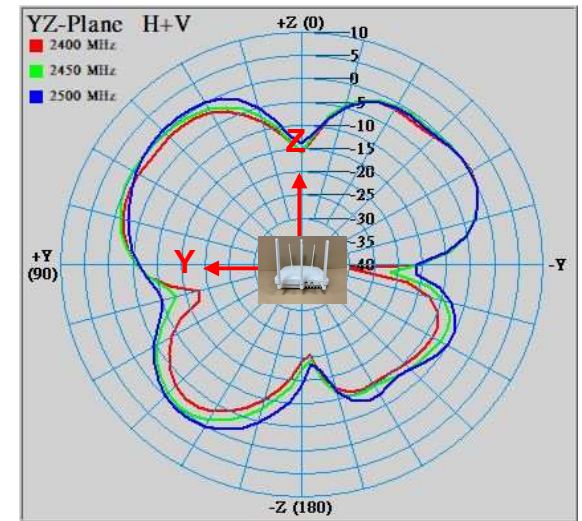
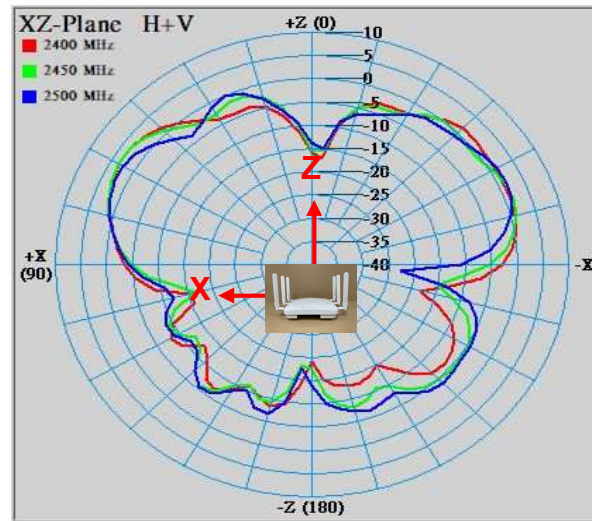
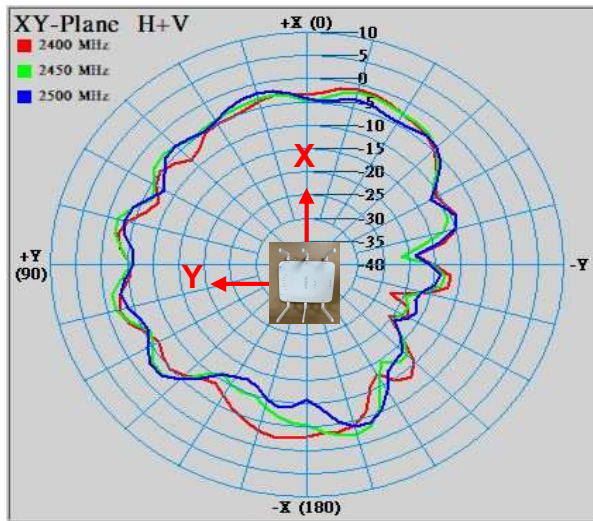




2D Radiation Pattern Ant 4

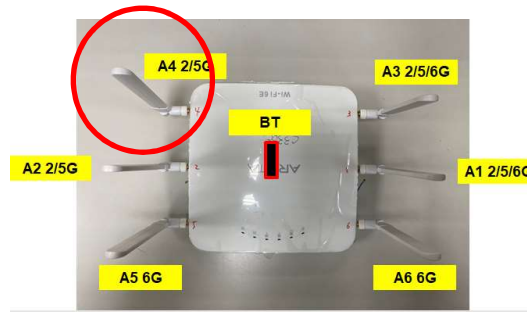


2.45GHz

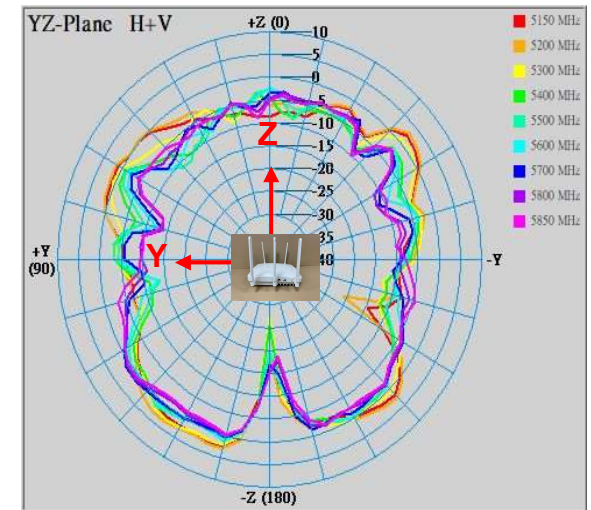
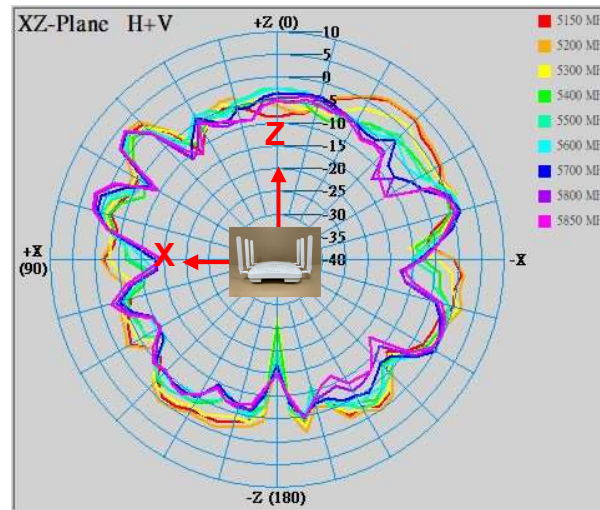
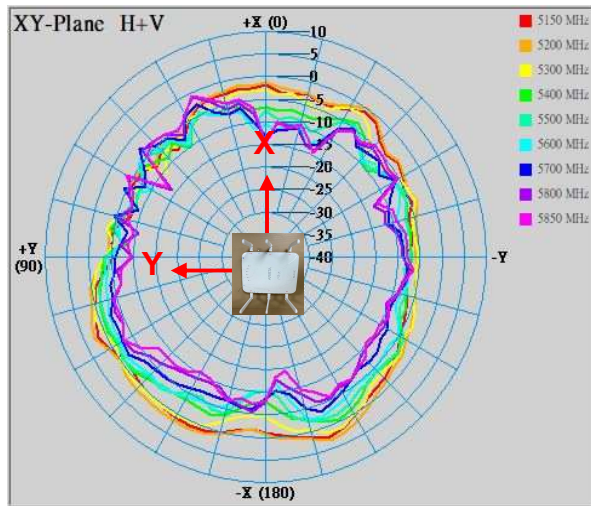


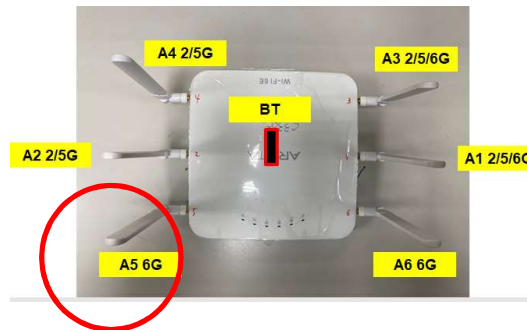


2D Radiation Pattern Ant 4

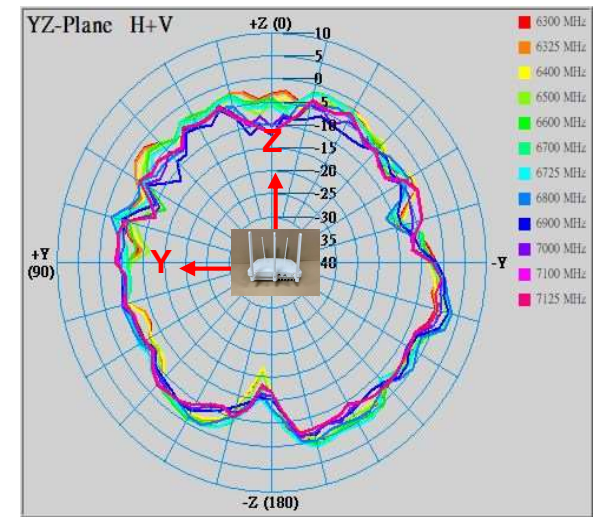
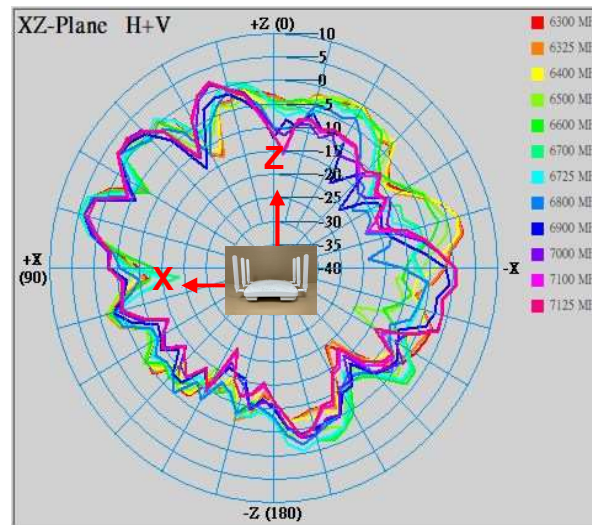
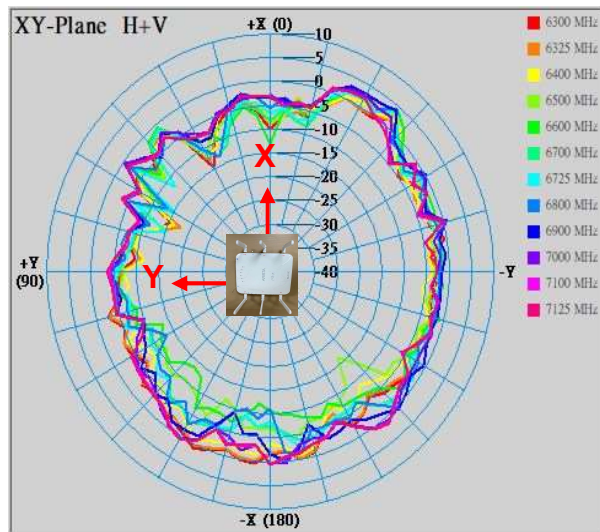


5.5GHz



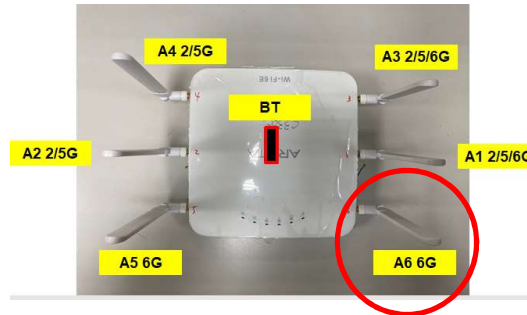


6.5GHz

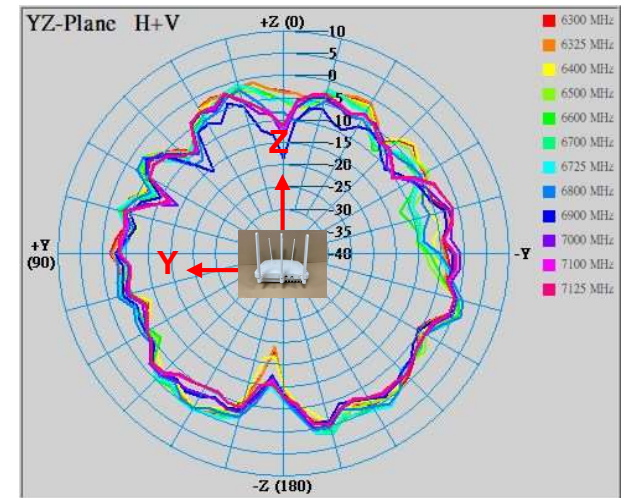
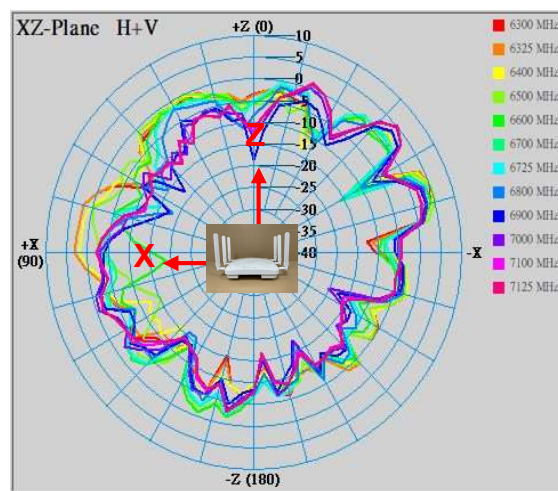
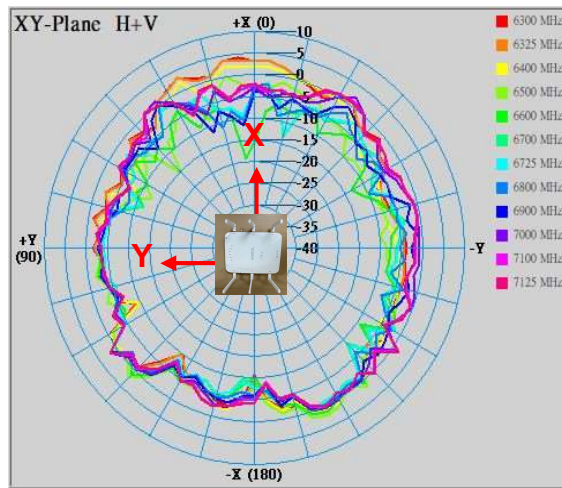


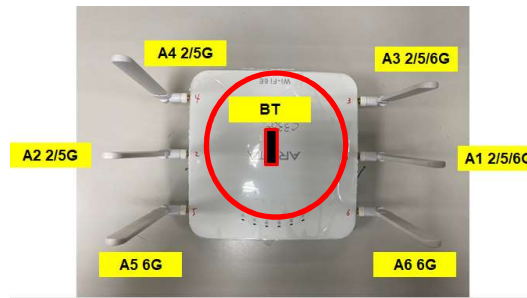


2D Radiation Pattern Ant 6

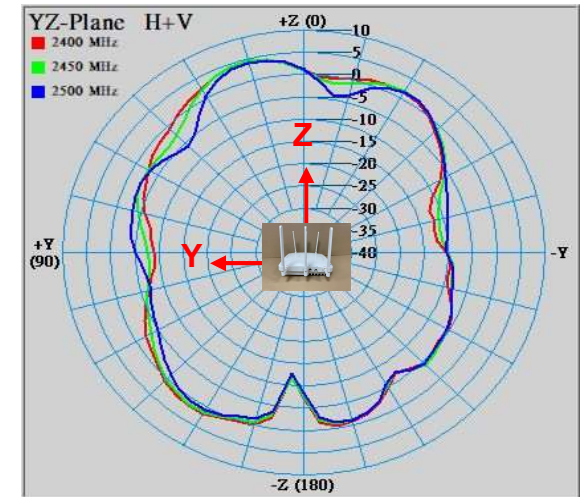
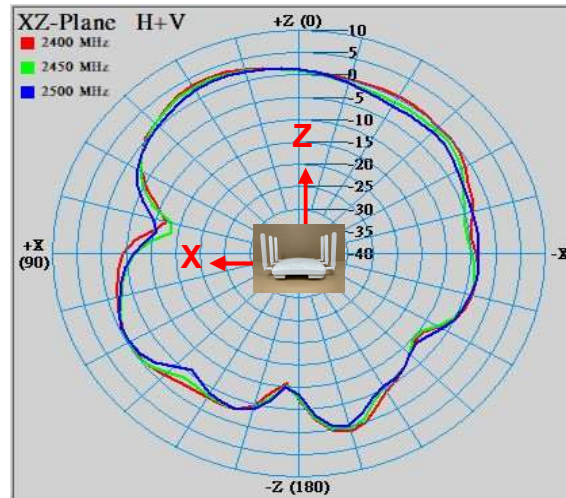
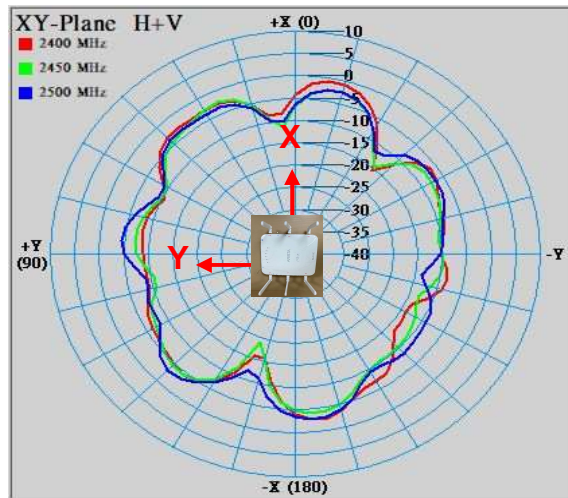


6.5GHz





2.45GHz





Antenna Spec. Summary

	Ant1 (2/5/6G)			Ant2 (2/5G)		Ant3 (2/5/6G)			Ant4 (2/5G)		Ant5	Ant6	Ant7
Band	2GHz	5GHz	6GHz	2GHz	5GHz	2GHz	5GHz	6GHz	2GHz	5GHz	6GHz	6GHz	2GHz
Peak Gain (dBi)	5.2	5.6	5.2	4.9	5.9	4.7	6.6	6.1	4.4	5.6	6.1	6.6	4.6
Efficiency (%)	66.2	67.2	72.6	69.1	68.6	69.9	68.8	67.6	67	68.8	67.6	69.3	70.8

- We test the C330E DVT antennas samples with housing.