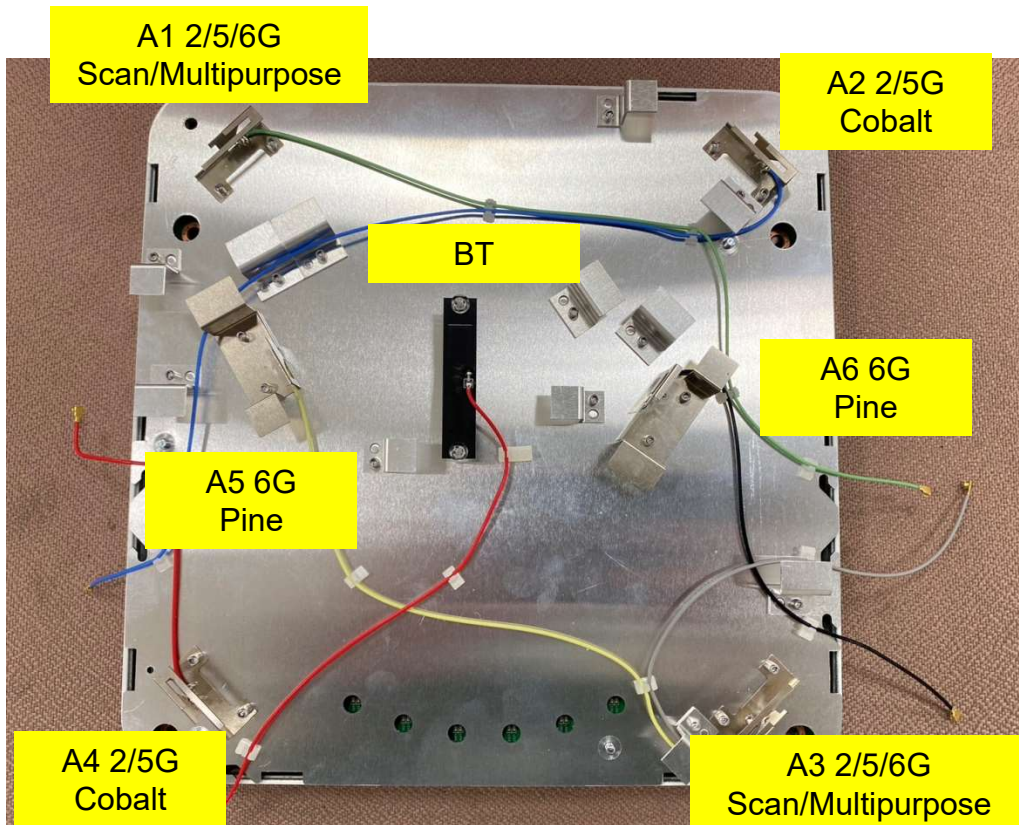




## C330 DVT Antenna Test Report



## Antenna Location



Manufacturer: Whayu

Manufacturer address:  
No.326, Sec.2 Gongdao 5<sup>th</sup> Rd., East Dist.,  
Hsinchu City 300042, Taiwan.(R.O.C.)

Antenna Model number:

Ant1 ~Ant6:

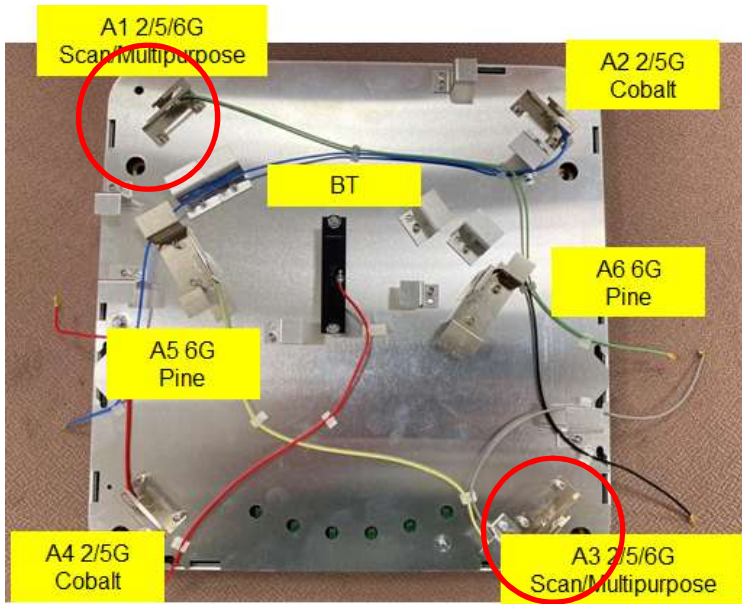
- C393-510223-A for AP-C330

BT Ant7:

- C393-510224-A for AP-C330E
- C393-510223-A for AP-C330



# Antenna Return Loss \_ Ant1&3



2.41~2.48GHz

5.15GHz

7.125GHz



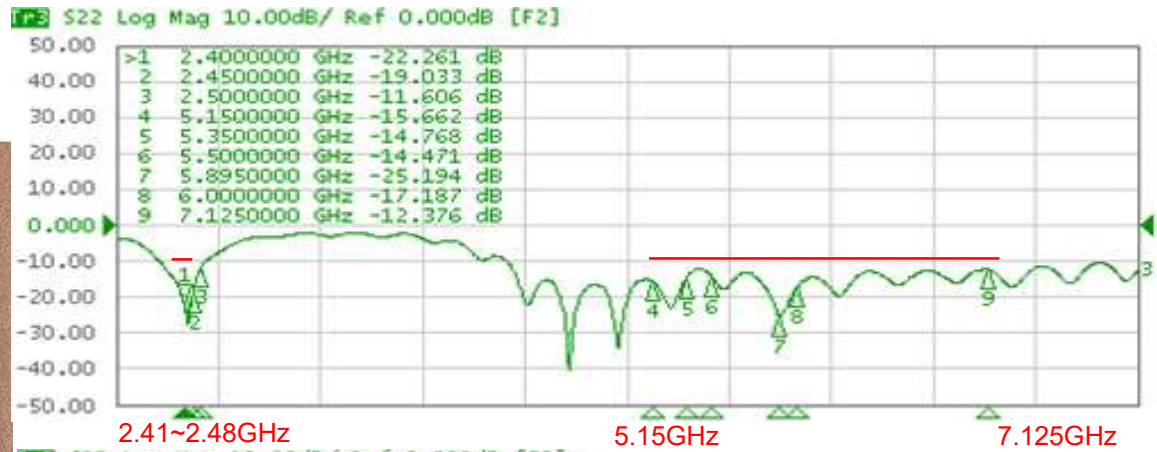
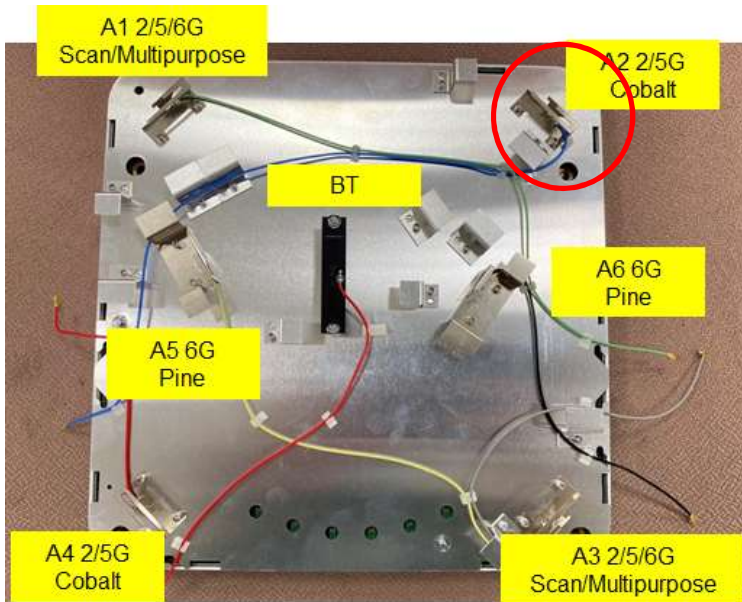
2.41~2.48GHz

5.15GHz

7.125GHz

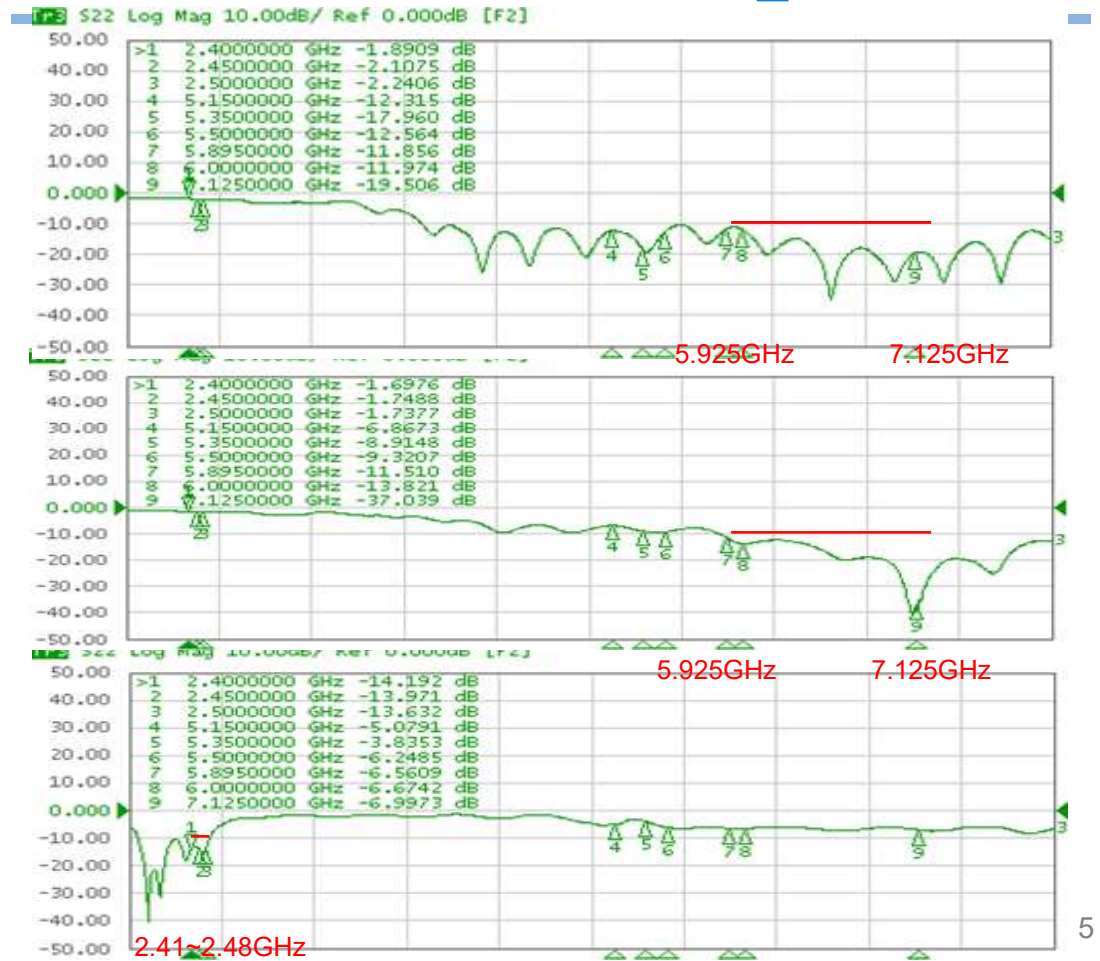
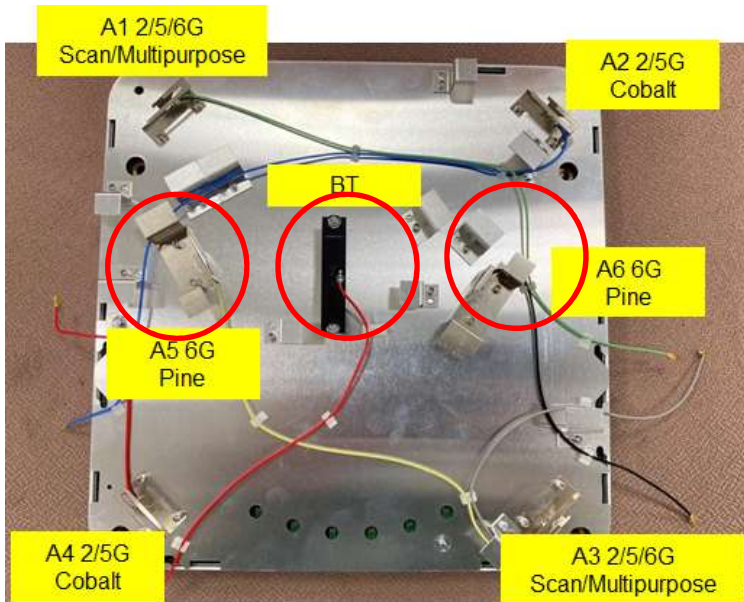


# Antenna Return Loss \_ Ant2&4



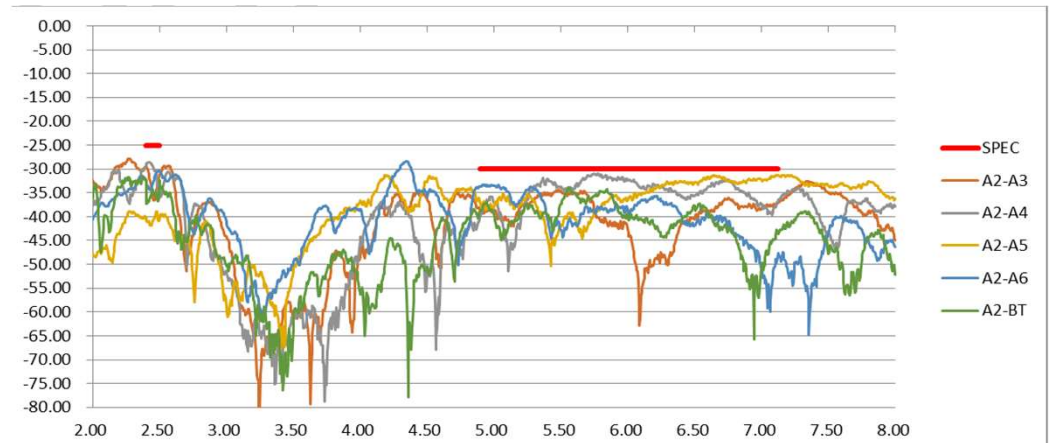
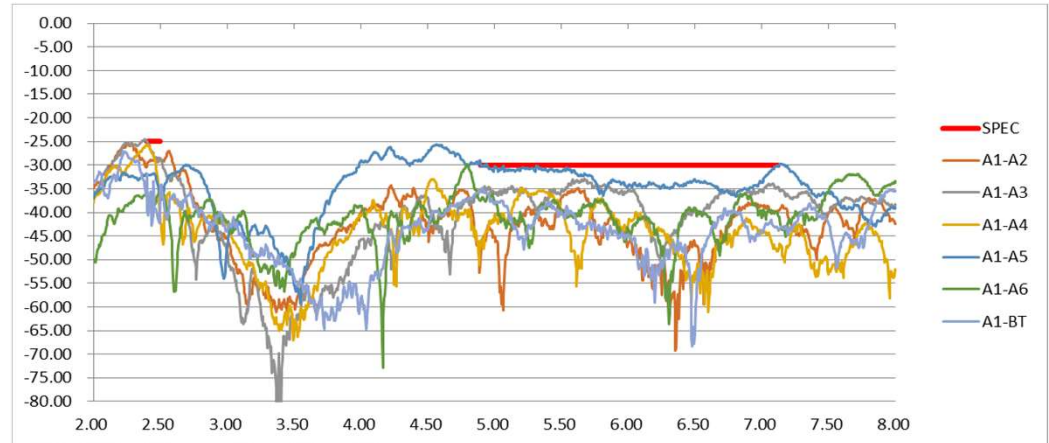
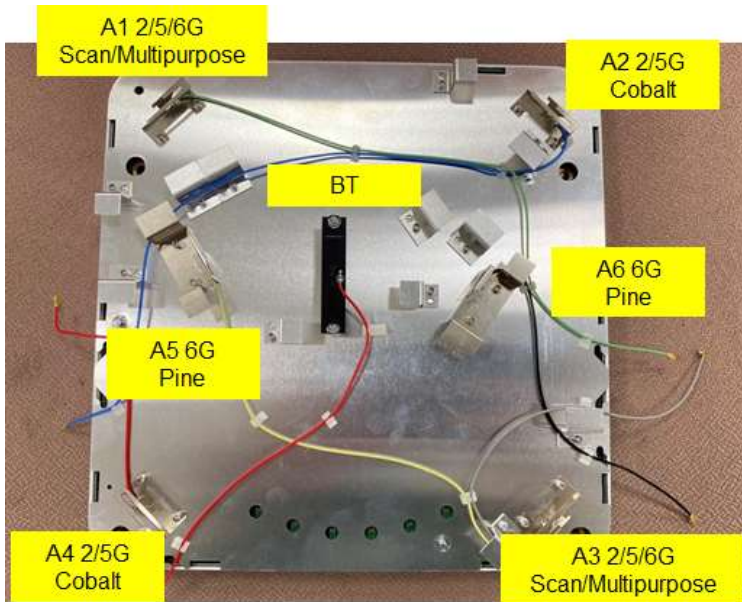


# Antenna Return Loss \_ Ant5&6&7



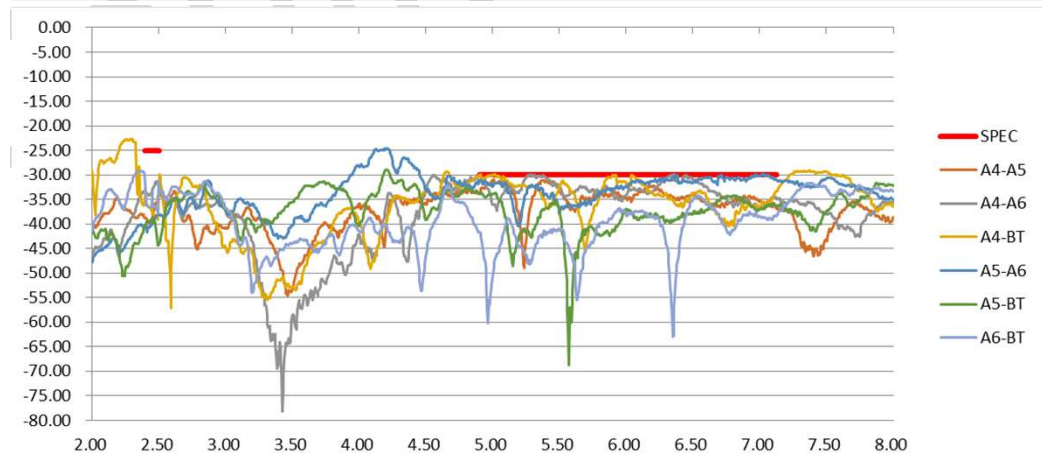
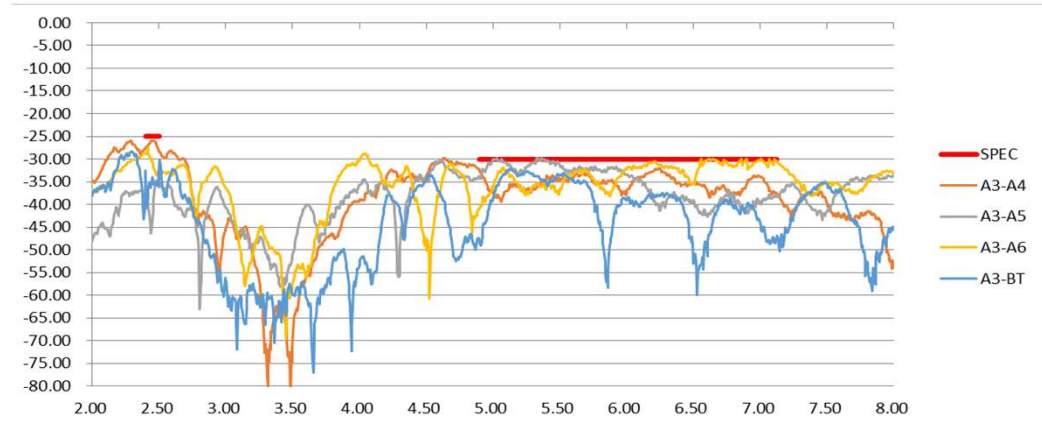
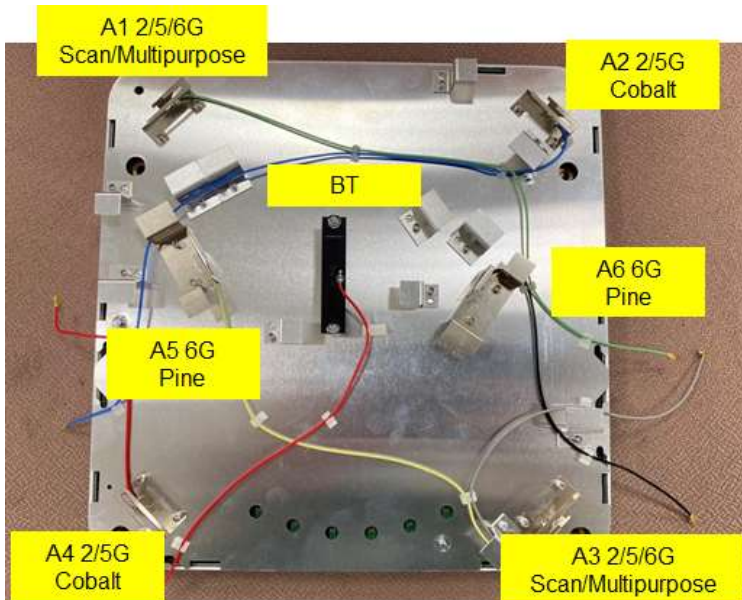


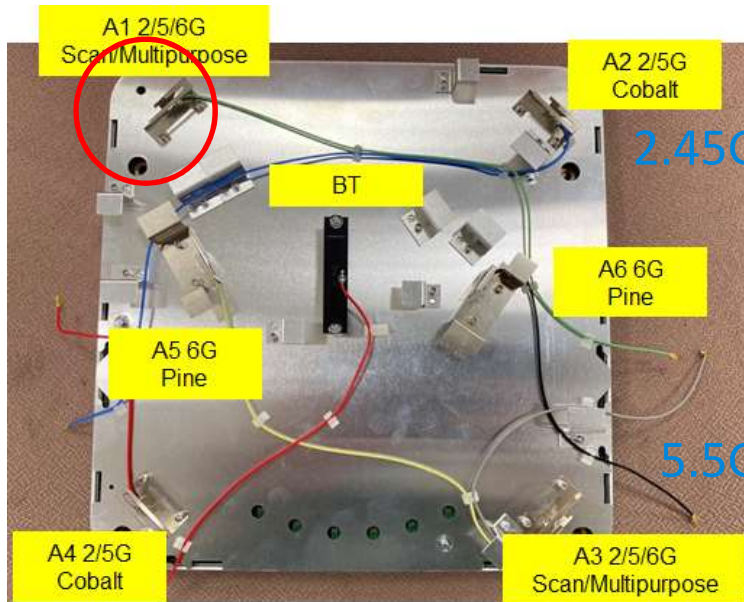
# Antenna Isolation(1/2)





## Antenna Isolation(2/2)

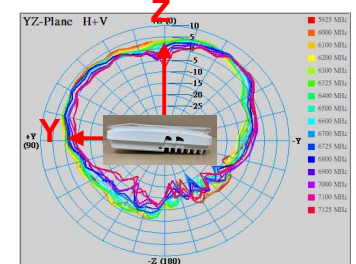
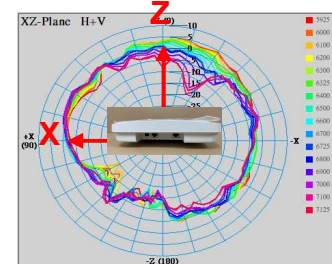
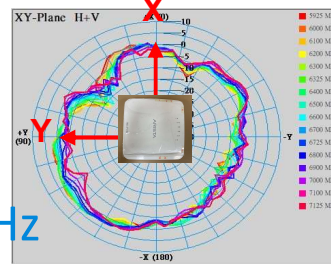
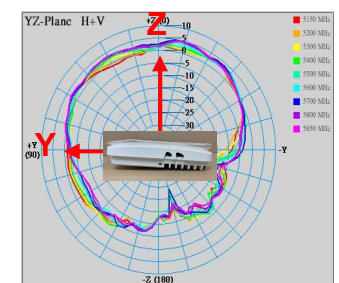
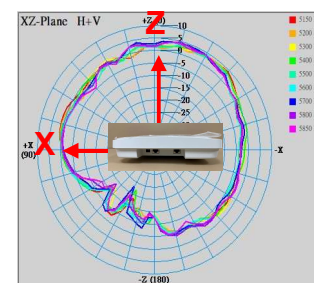
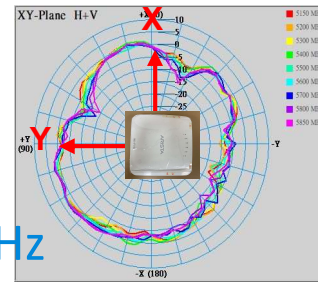
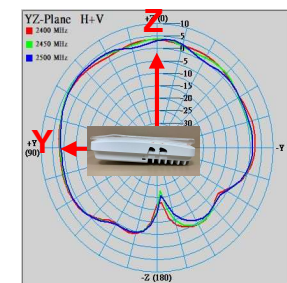
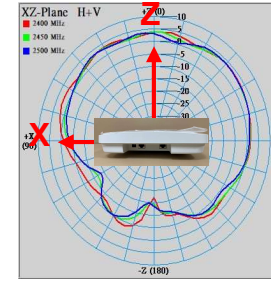
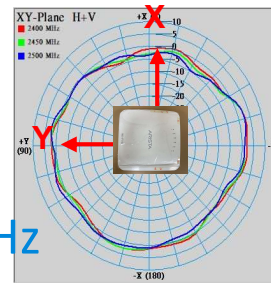




2.45GHz

5.5GHz

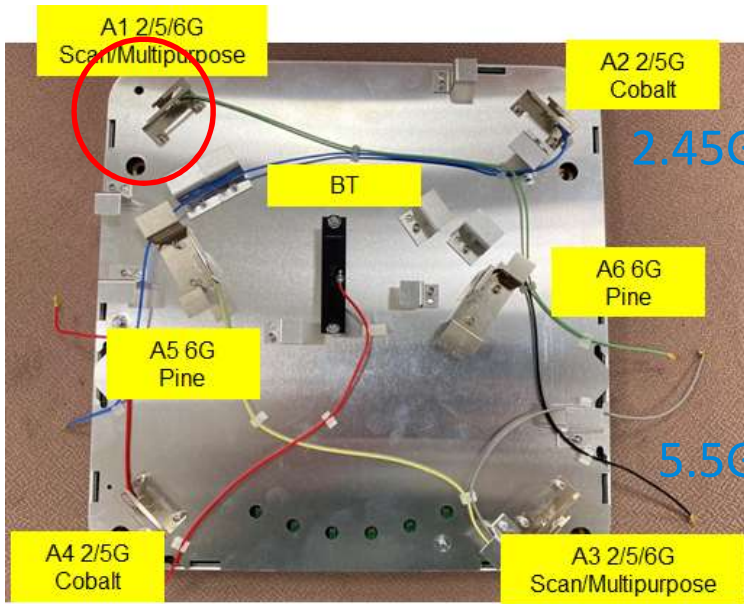
6.5GHz







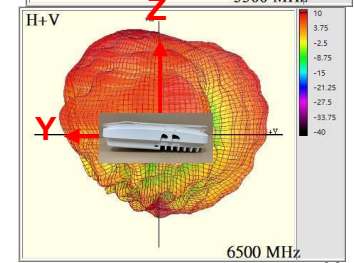
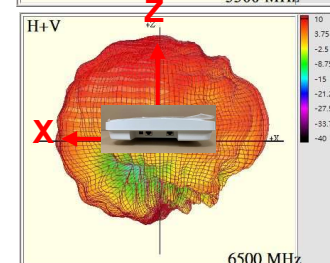
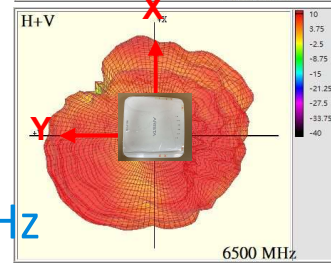
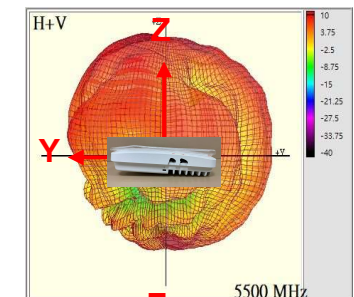
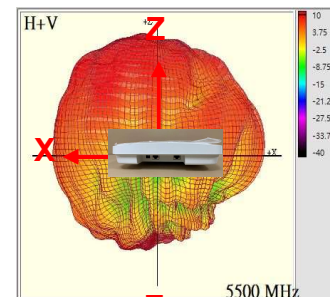
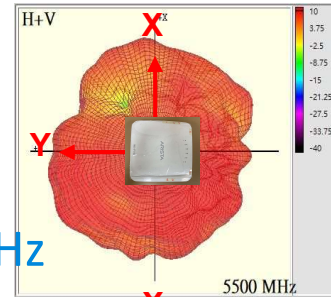
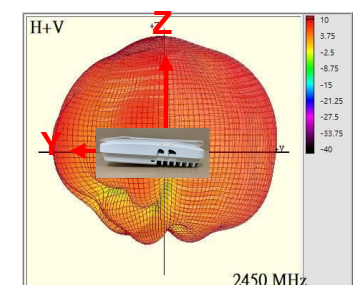
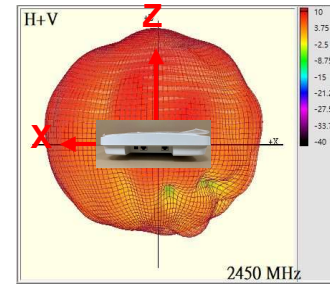
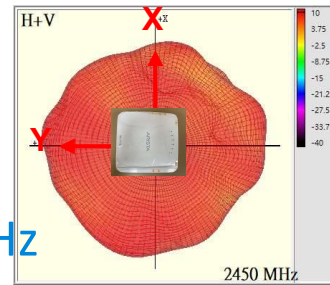
# 3D Radiation Pattern Ant 1

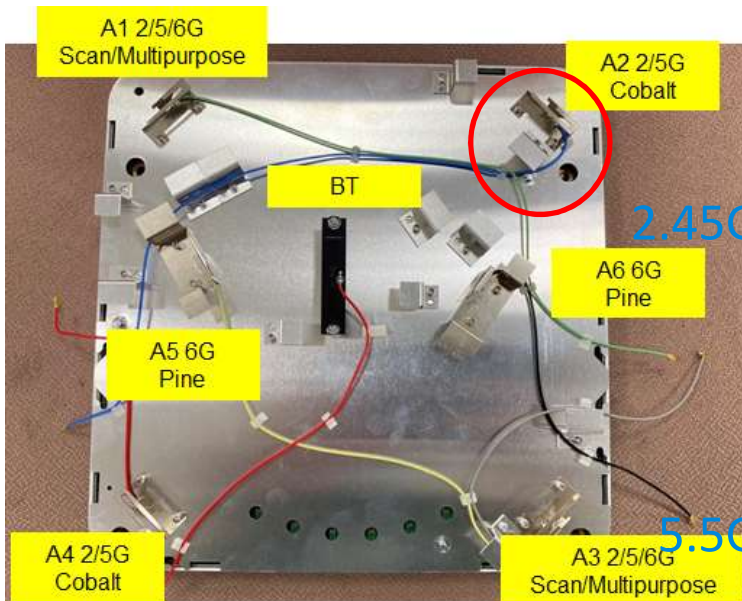


2.45GHz

5.5GHz

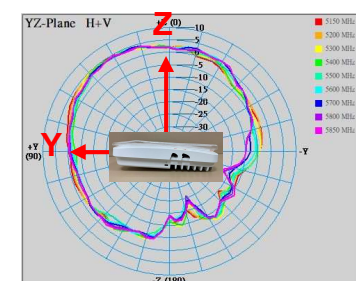
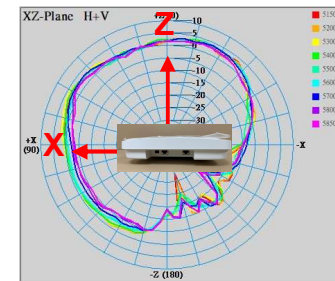
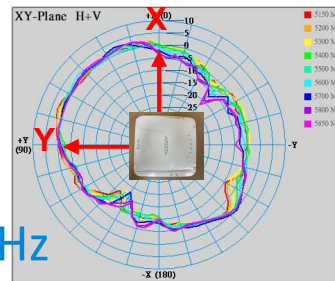
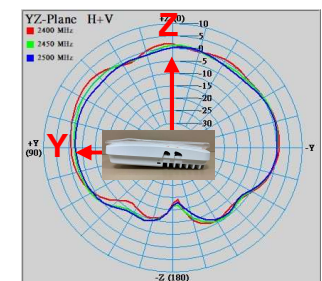
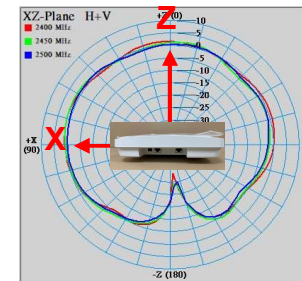
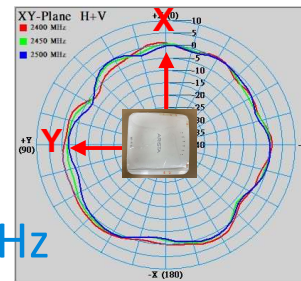
6.5GHz



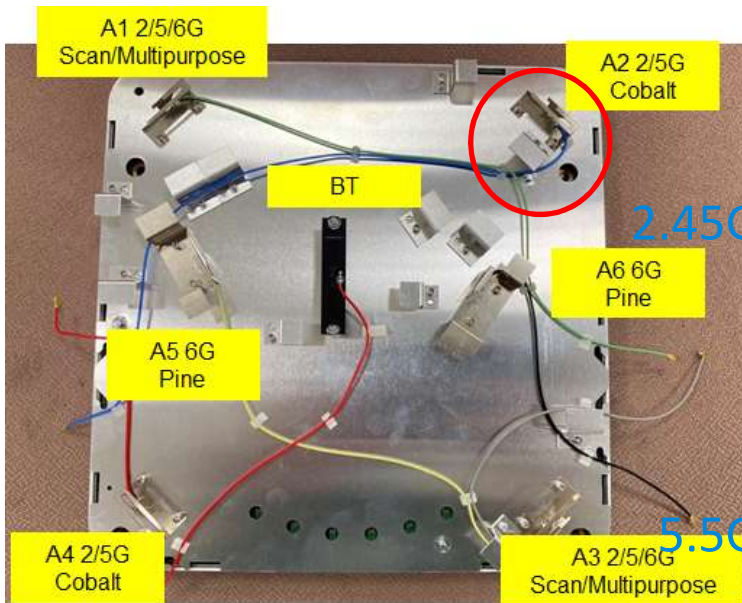


2.45GHz

5.5GHz

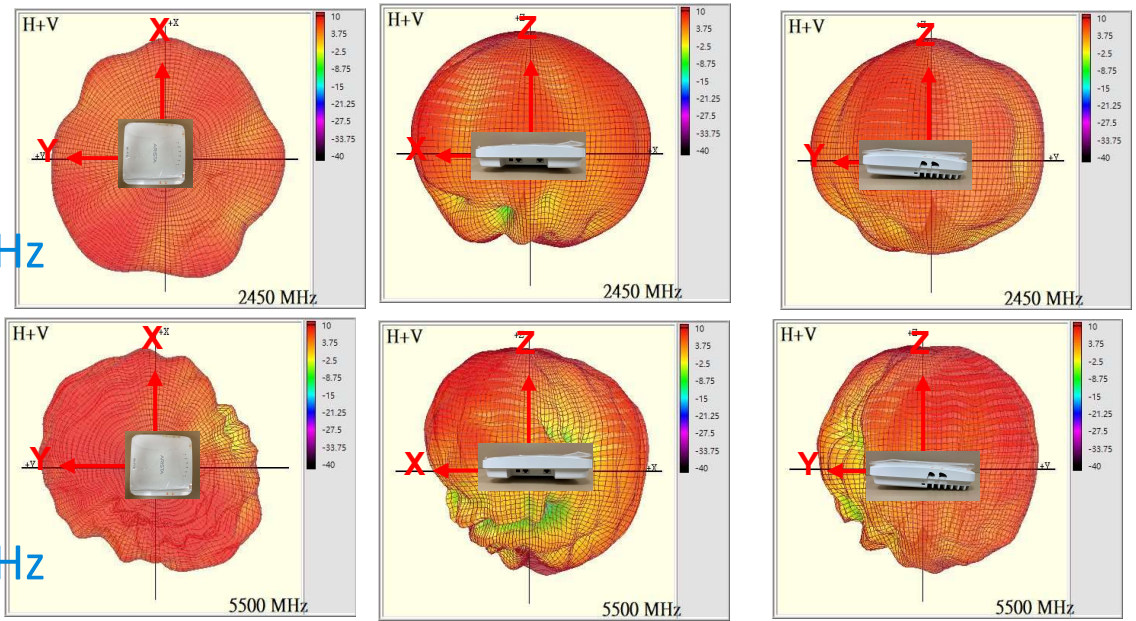


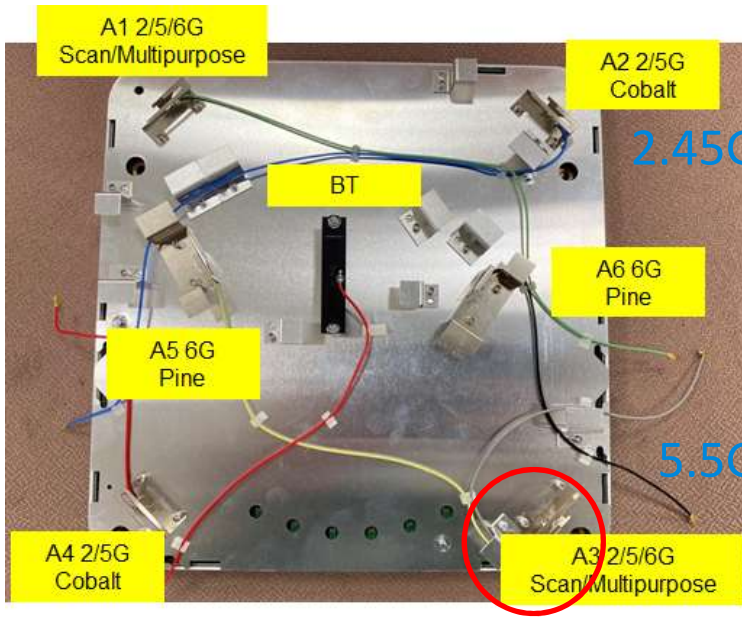
## 3D Radiation Pattern Ant 2



2.45GHz

5.5GHz

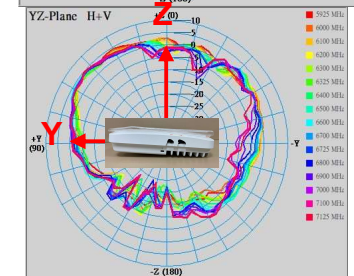
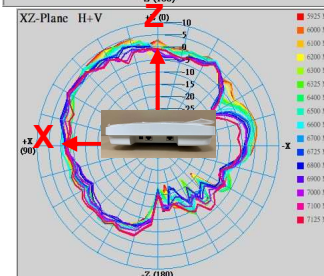
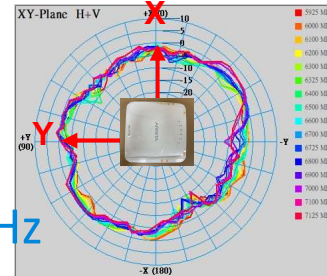
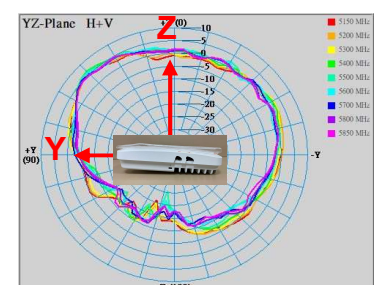
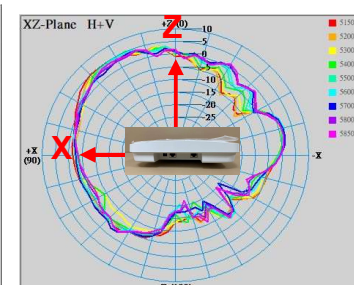
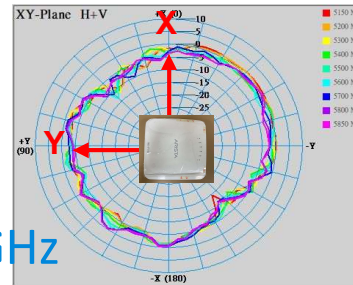
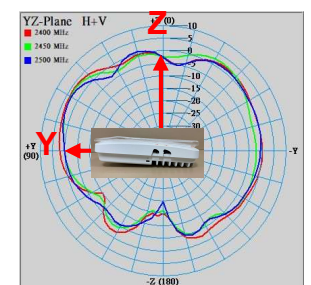
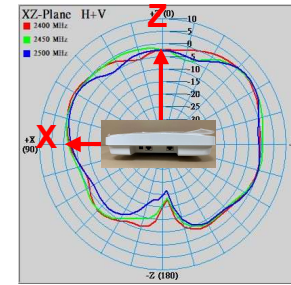
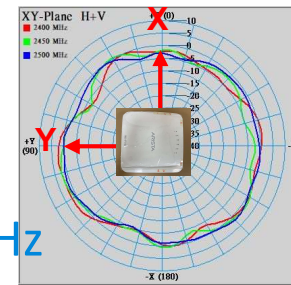




2.45GHz

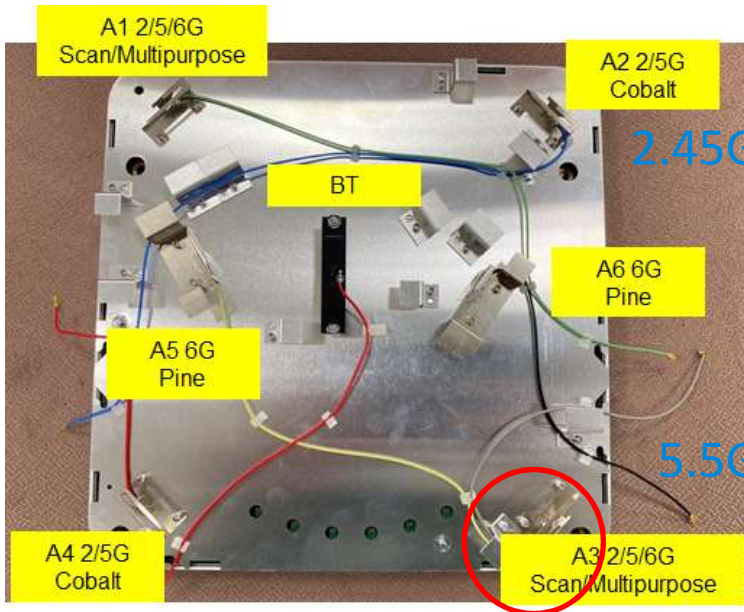
5.5GHz

6.5GHz





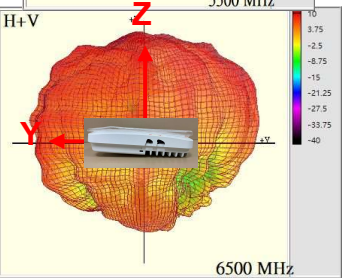
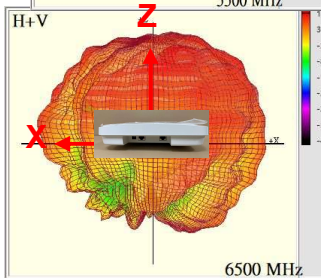
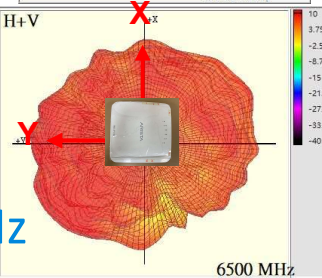
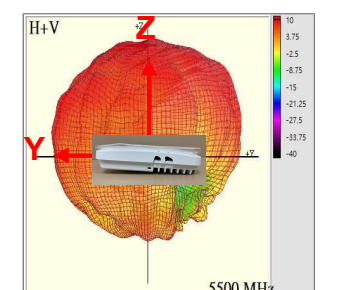
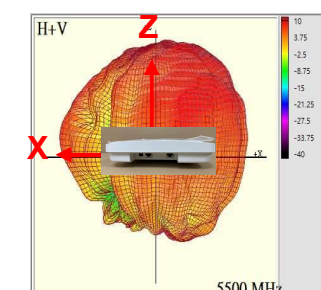
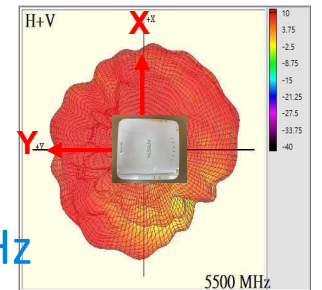
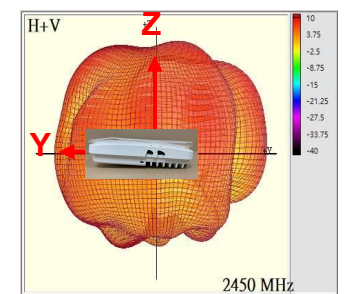
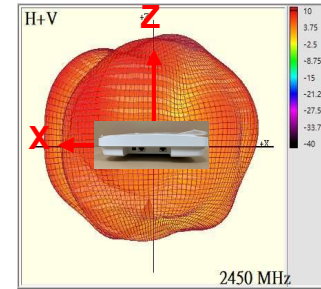
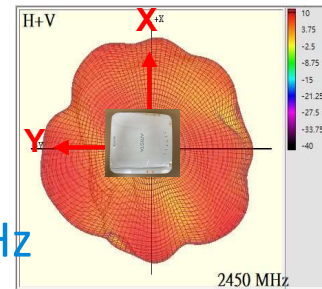
# 3D Radiation Pattern Ant 3

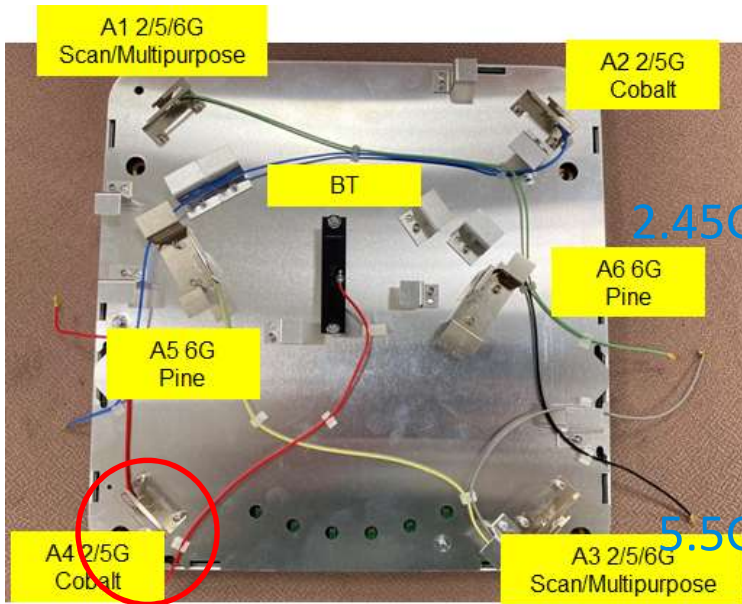


2.45GHz

5.5GHz

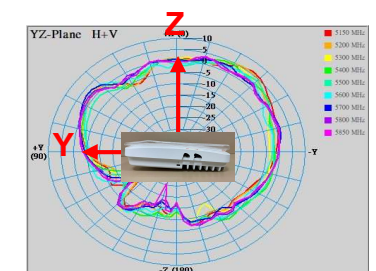
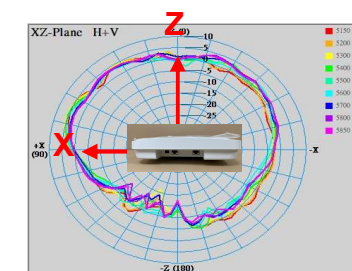
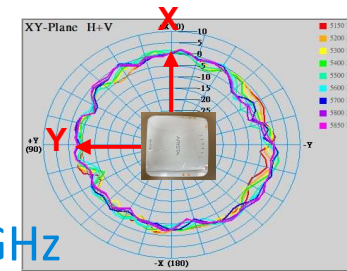
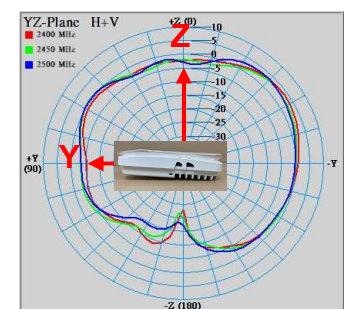
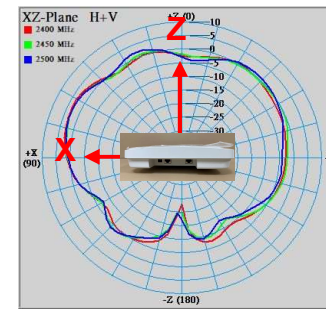
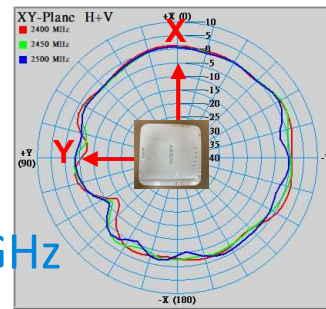
6.5GHz

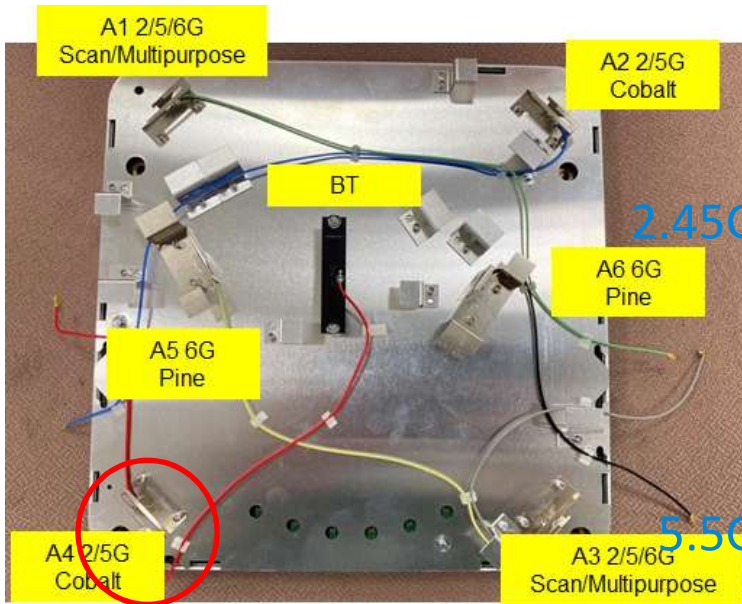




2.45GHz

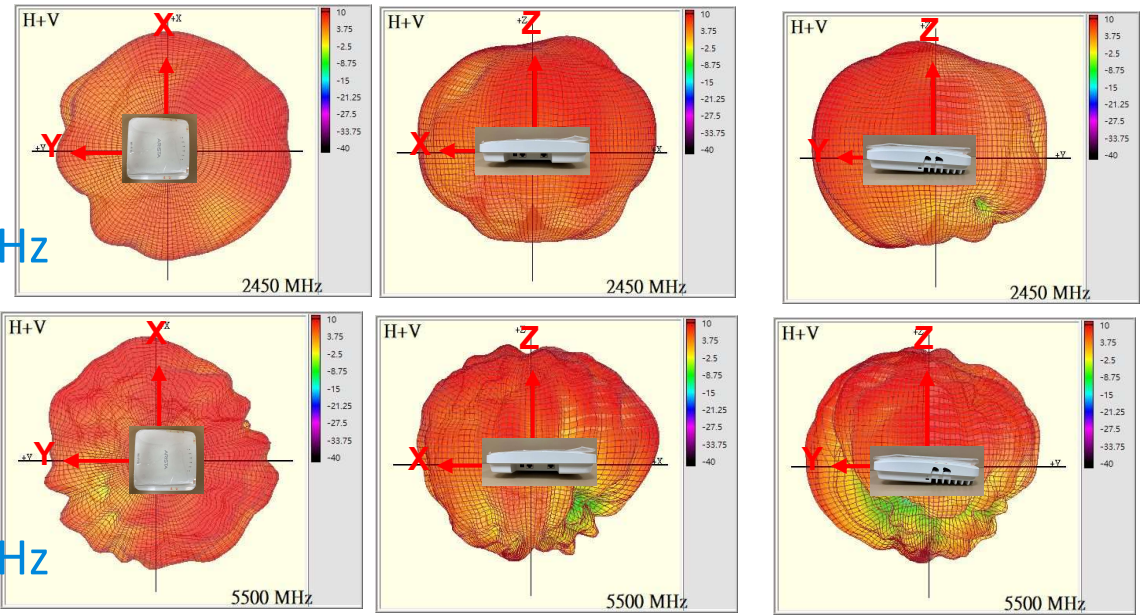
5.5GHz

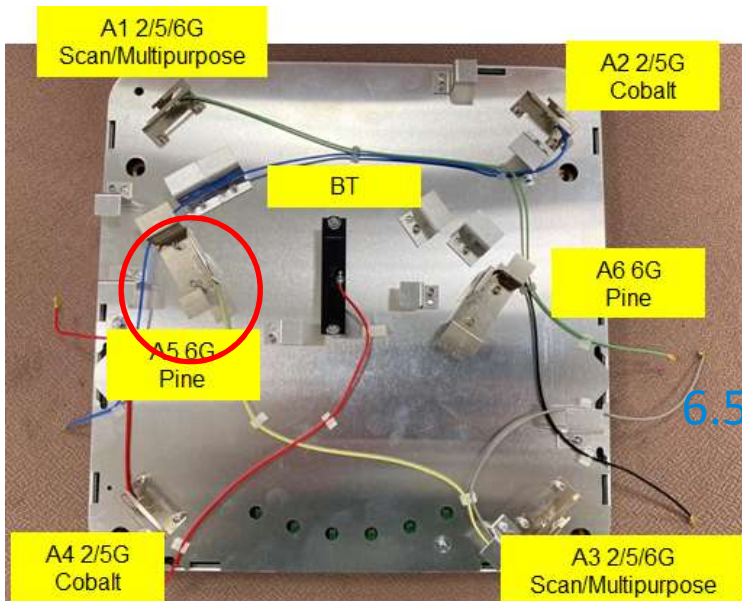




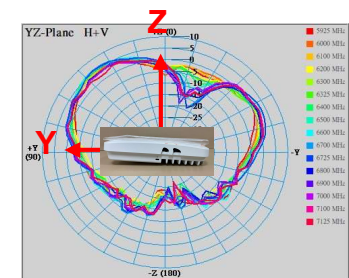
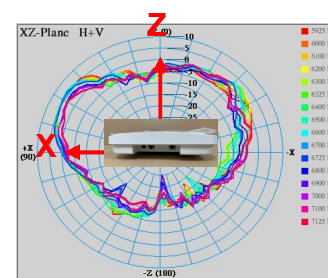
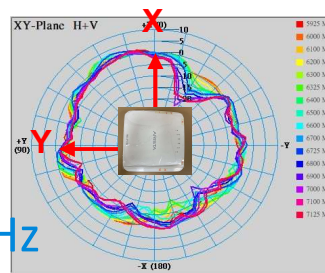
2.45GHz

5.5GHz



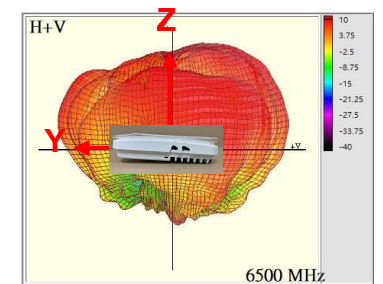
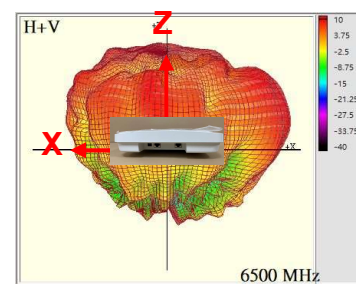
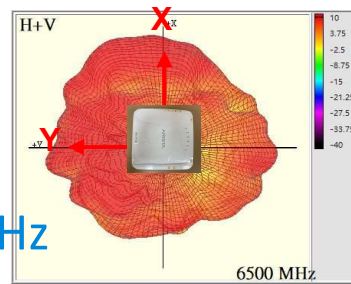
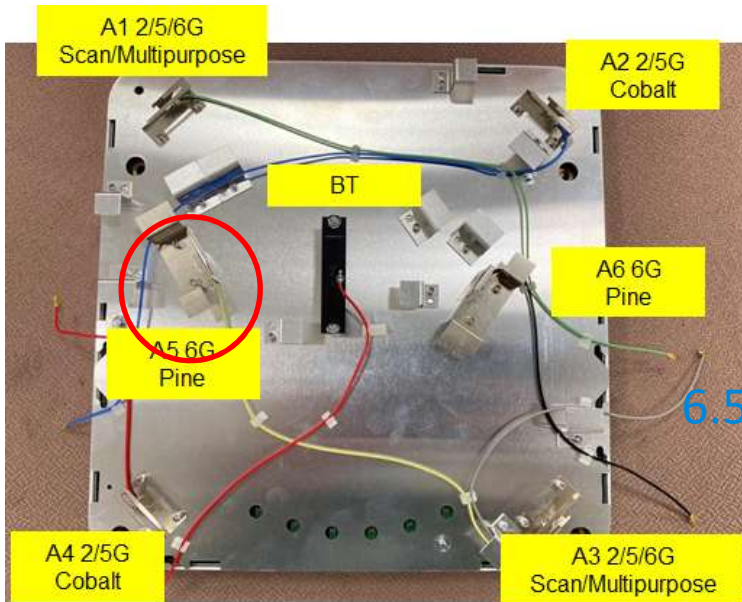


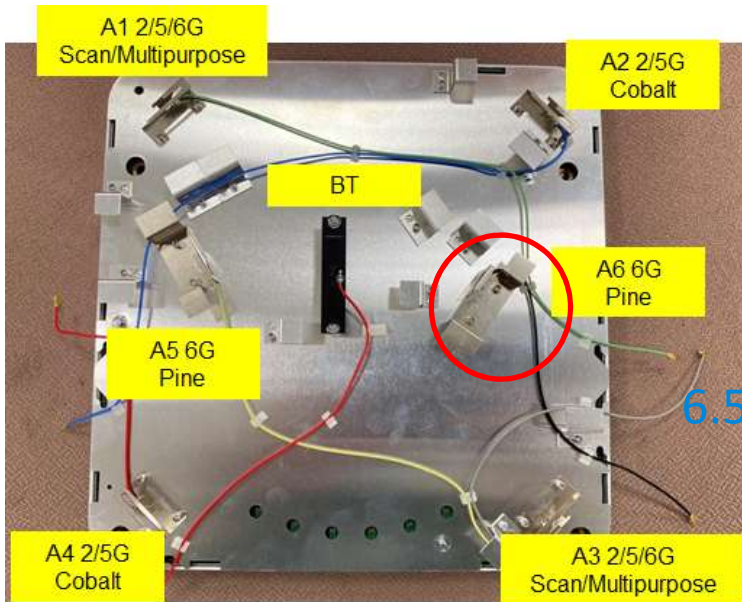
6.5GHz



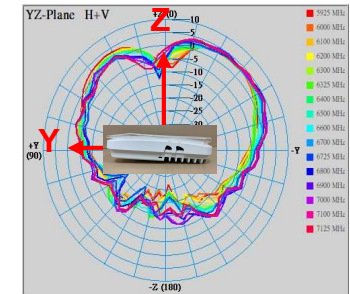
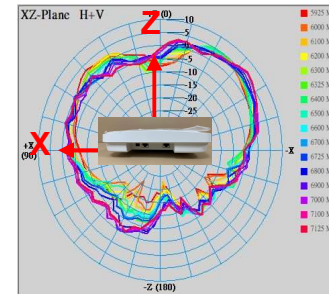
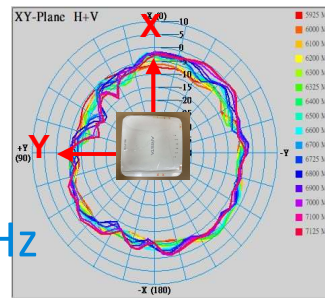


# 3D Radiation Pattern Ant 5

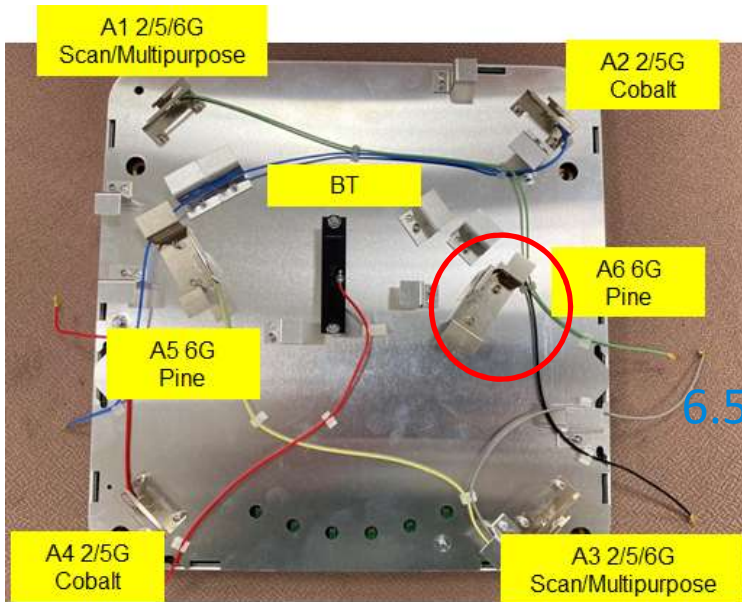




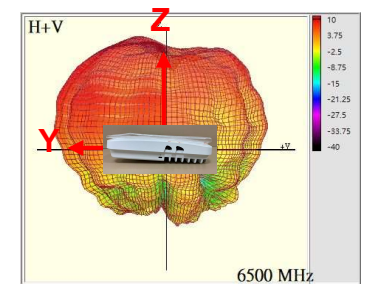
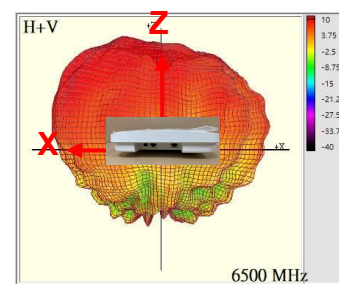
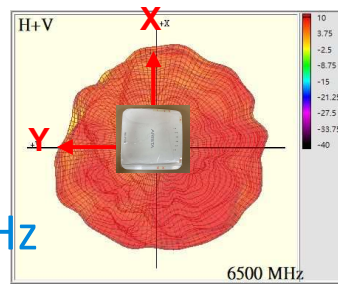
6.5GHz

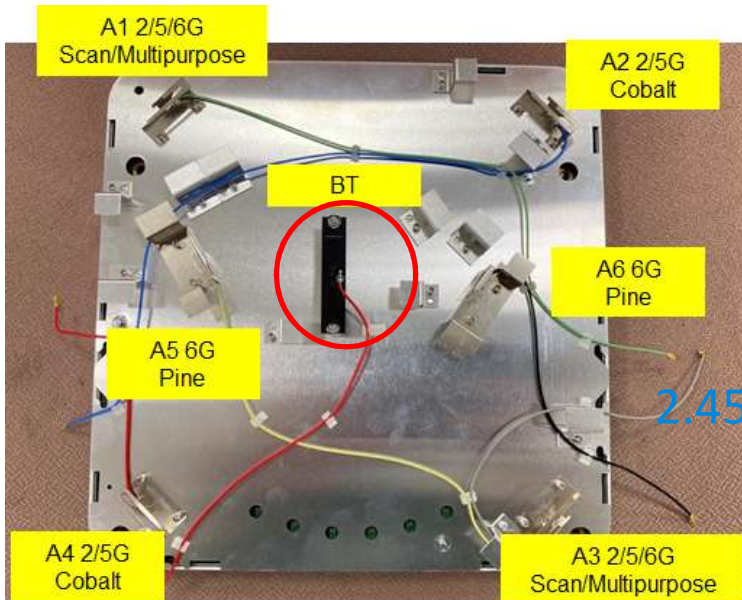


# 3D Radiation Pattern Ant 6

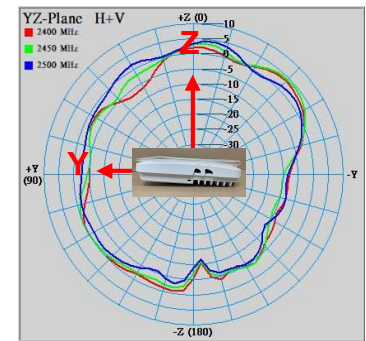
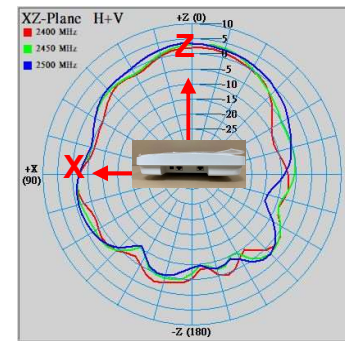
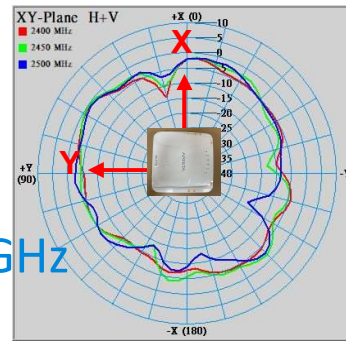


6.5GHz

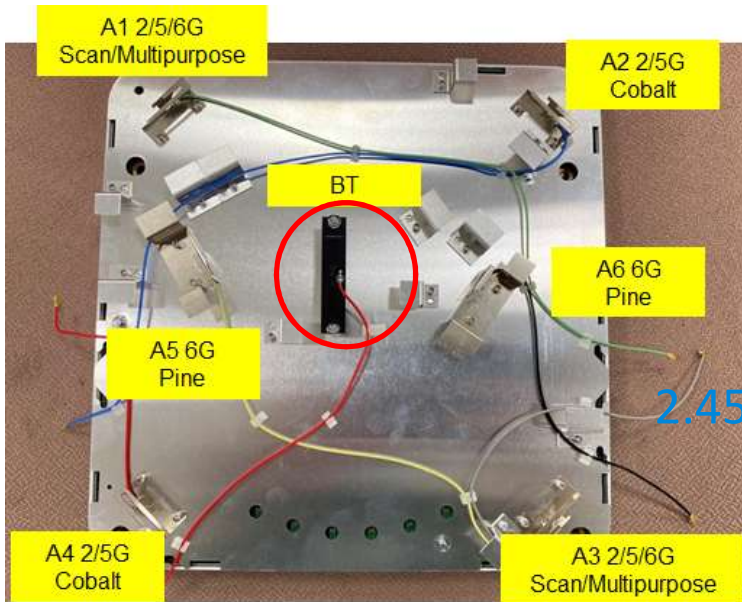




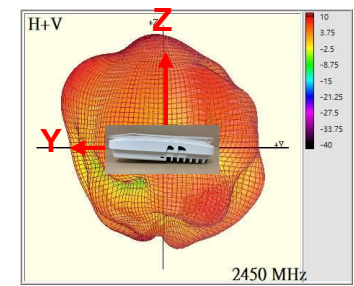
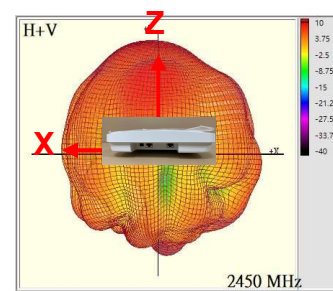
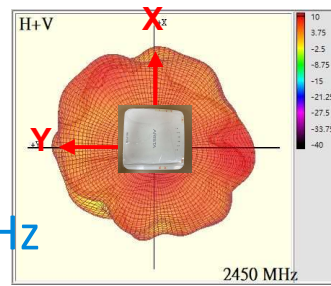
2.45GHz



# 3D Radiation Pattern Ant 7



2.45GHz





## Antenna Spec. Summary

|                        | <b>Ant1 (2/5/6G)</b> |             |             | <b>Ant2 (2/5G)</b> |             | <b>Ant3 (2/5/6G)</b> |             |             | <b>Ant4 (2/5G)</b> |             | <b>Ant5</b> | <b>Ant6</b> | <b>Ant7</b> |
|------------------------|----------------------|-------------|-------------|--------------------|-------------|----------------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|
| <b>Band</b>            | <b>2GHz</b>          | <b>5GHz</b> | <b>6GHz</b> | <b>2GHz</b>        | <b>5GHz</b> | <b>2GHz</b>          | <b>5GHz</b> | <b>6GHz</b> | <b>2GHz</b>        | <b>5GHz</b> | <b>6GHz</b> | <b>6GHz</b> | <b>2GHz</b> |
| <b>Peak Gain (dBi)</b> | <b>4.7</b>           | <b>6.4</b>  | <b>6.3</b>  | <b>4.8</b>         | <b>5.3</b>  | <b>4.2</b>           | <b>6.4</b>  | <b>6.1</b>  | <b>4.8</b>         | <b>5.9</b>  | <b>7.2</b>  | <b>6.1</b>  | <b>4.6</b>  |
| <b>Efficiency (%)</b>  | <b>73.1</b>          | <b>69.1</b> | <b>69.2</b> | <b>69.5</b>        | <b>71.2</b> | <b>72.1</b>          | <b>74.9</b> | <b>66.5</b> | <b>73.4</b>        | <b>71.3</b> | <b>69.4</b> | <b>67.6</b> | <b>66.4</b> |

- We test the DVT antennas samples with housing.
- All antennas can meet the gain/efficiency spec. ( 65% efficiency and 3dB gain at 2GHz, 4dB gain at 5GHz, 5dB at 6GHz)
- All antennas can meet the isolation spec. (20dB at 2GHz and 30dB at 5/6GHz)