

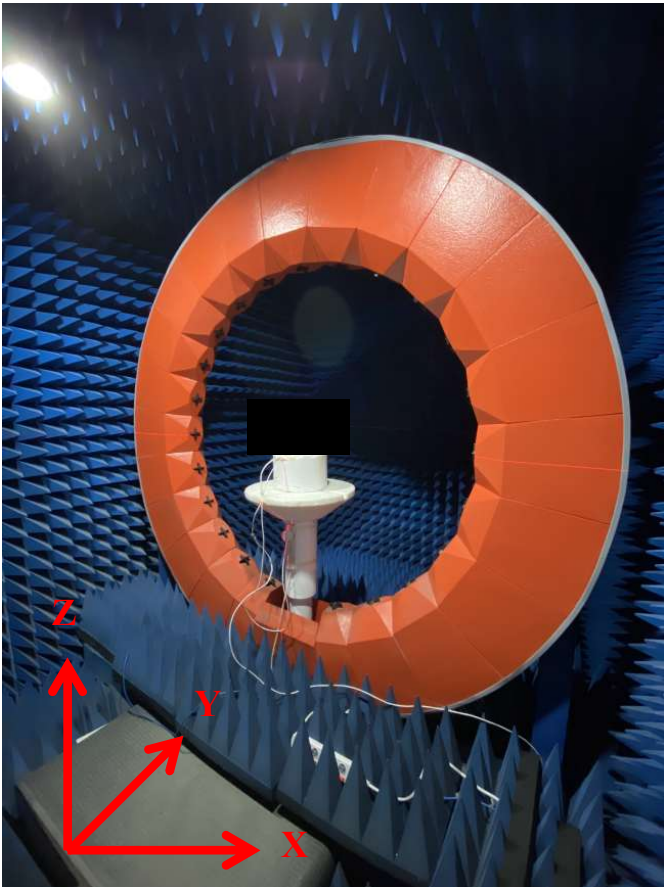
WiFi Printing Antenna report for Qualcomm QCC743

By Nice.2025.05.13

Outline

- **Chamber test environment**
- **QCC743 Antenna**
- **DUT Direction Definition :**
- **Antenna Return Loss**
- **Antenna Peak Gain & Efficiency**
- **Radiation Characteristics**
- **Summary**

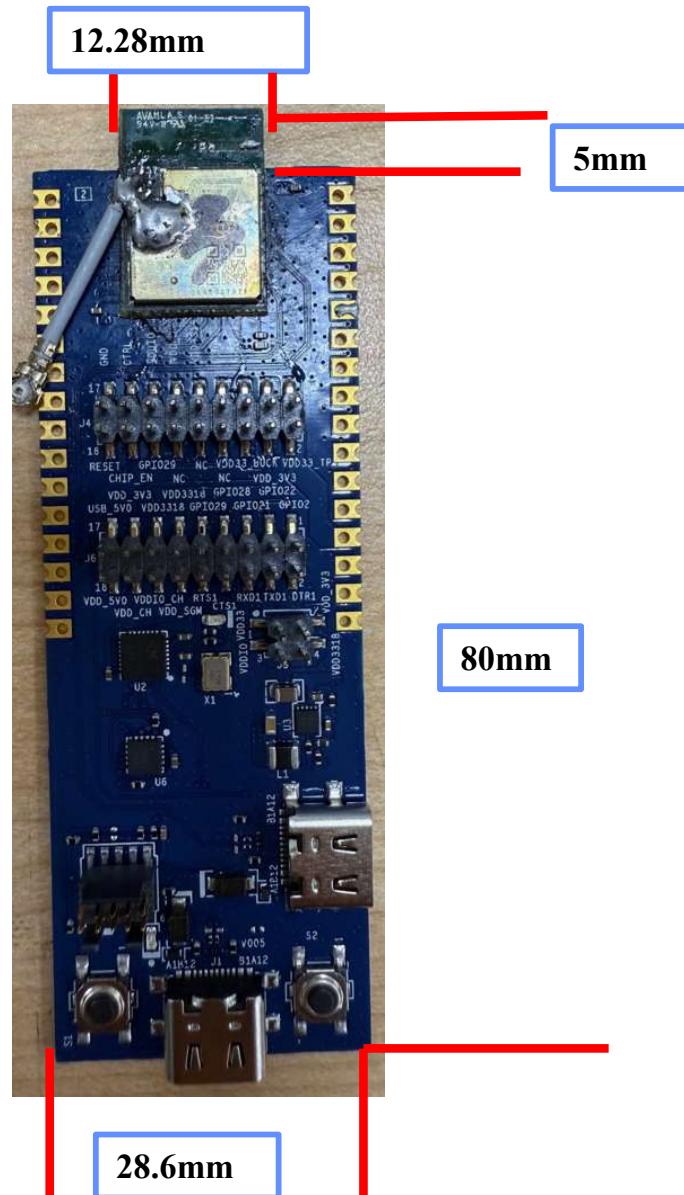
Chamber test environment



OTA chamber
TEM-24 system
(Multi-Probe)

1. Antenna passive test 700MHz~6000MHz
2. Long Term Evolution (LTE SISO) OTA Test
3. GSM/GPRS/EDGE on 850/900/1800/1900 OTA Test
4. WCDMA/HSDPA/HSUPA on FDD I~IX OTA Test
5. CDMA2000/1xEV-DO on 850/1900/AWS OTA Test
6. ECC
7. GPS Performance
8. Active Measurement: TRP, EIRP, EIS, TIS, Throughput, WiFi, BT, Non-Signaling
9. Chamber Dimension: $L*W*H = 3m*3m*4m$

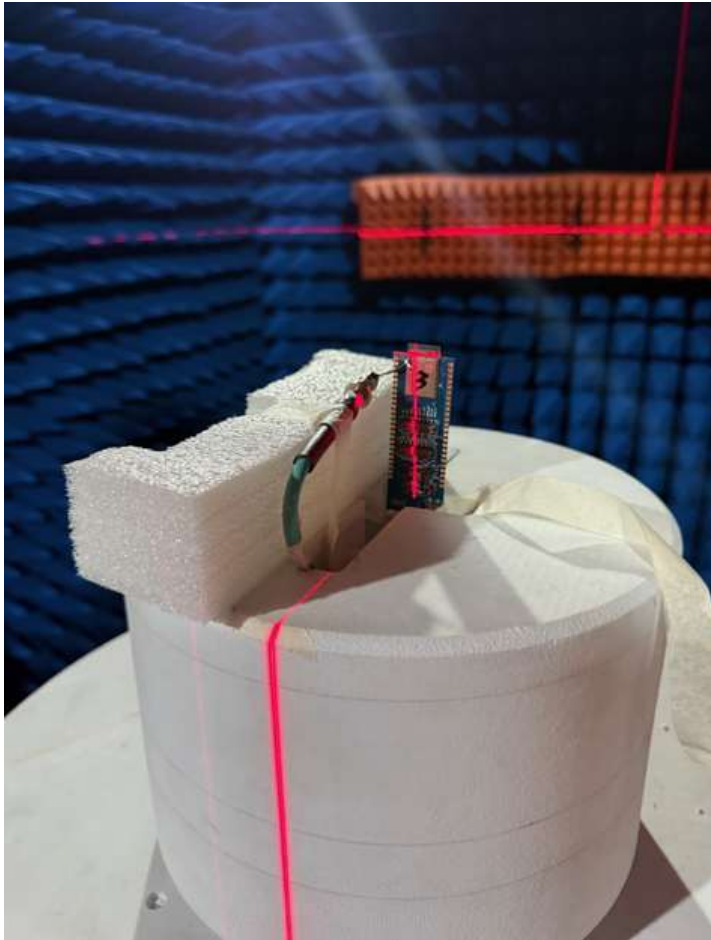
QCC743-Antenna



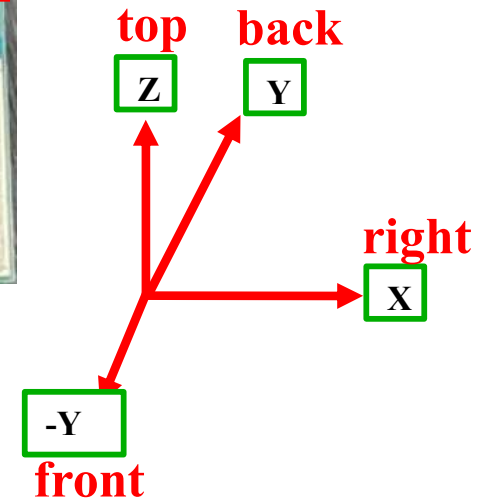
**Antenna(12.28*5mm)+
Ground(28.6*80mm)**



DUT Direction Definition :



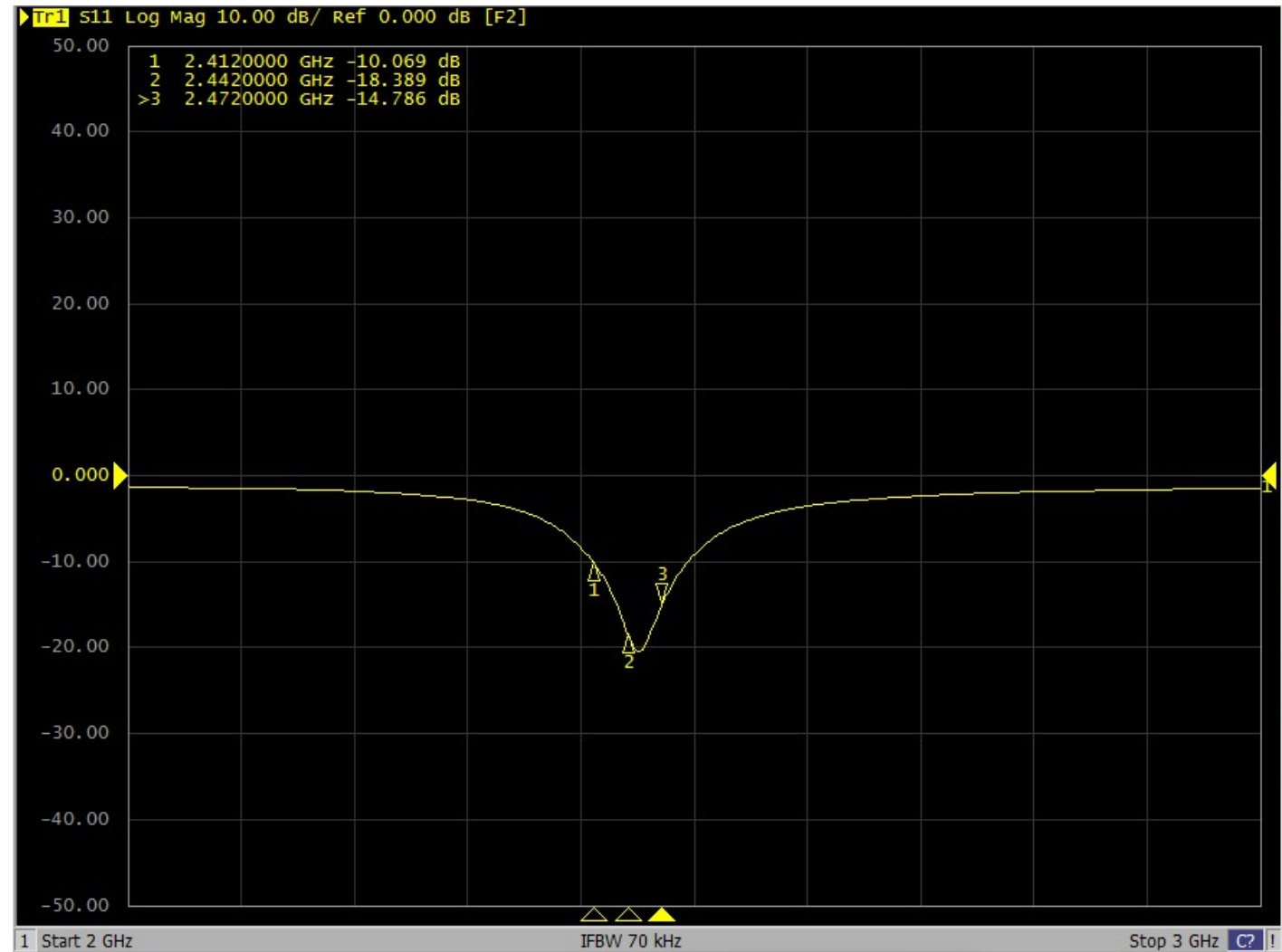
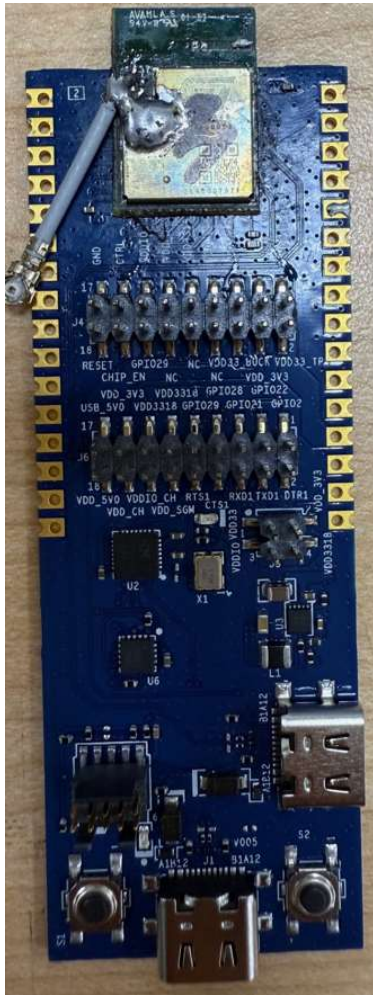
Measurement center point



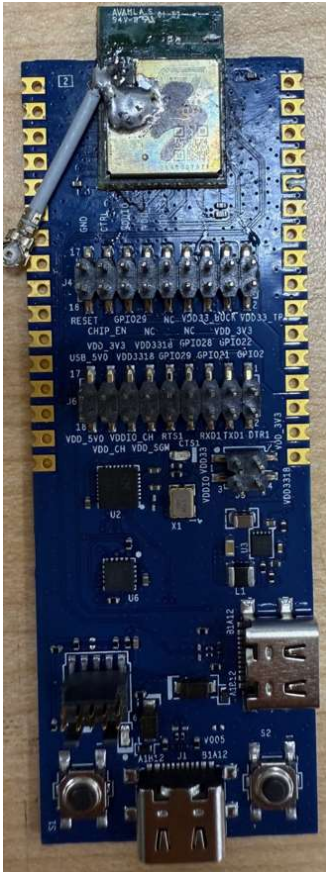
The X-Y plane and Y-Z plane is the user use antenna direction .

QCC743- Antenna Return Loss

Antenna(12.28*5mm)+
Ground(28.6*80mm)



Antenna Peak Gain & Efficiency

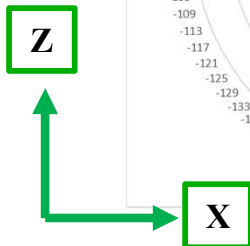
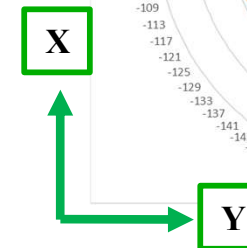
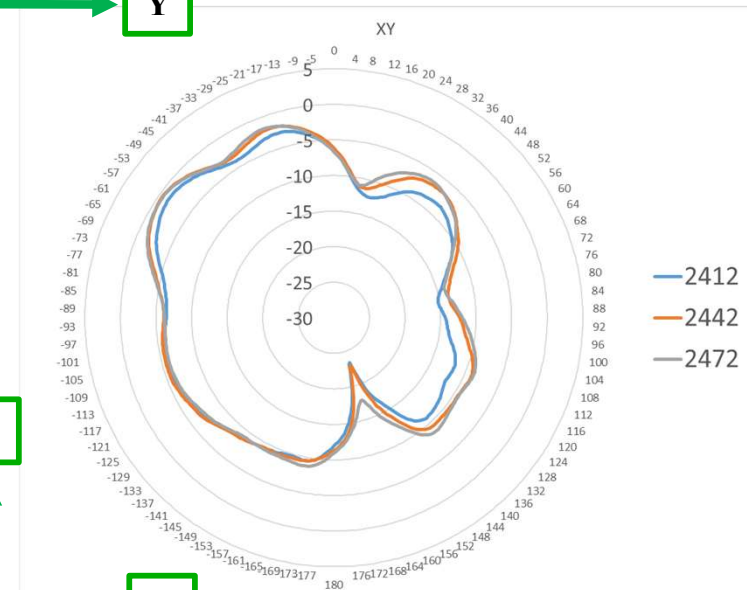
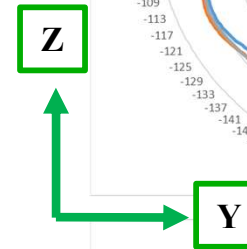
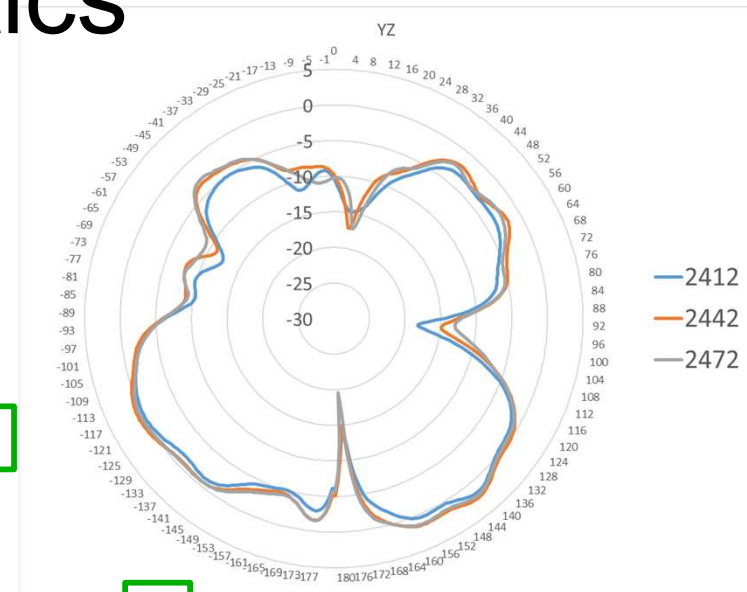
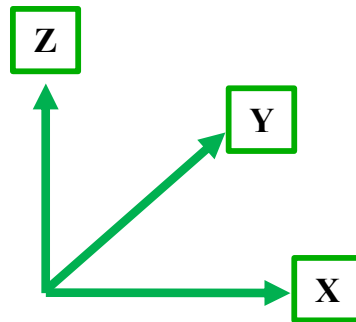
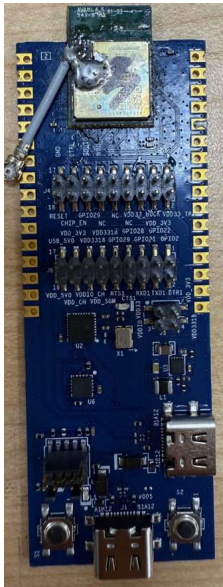


QCC743 (12.28*5mm)+Ground(28.6*80mm)

Frequency(GHz)	Peak Gain(dBi)	Efficiency (%)
2.412	2.49	50.33
2.442	2.15	48.65
2.472	1.98	43.85

Radiation Characteristics

QCC743



Summary

1.QCC743 ANT

(1)Peak gain=>1.98dBi~2.49dBi

(2)Efficiency=>43.85%~50.33%

2. Antenna type : PIFA type.