

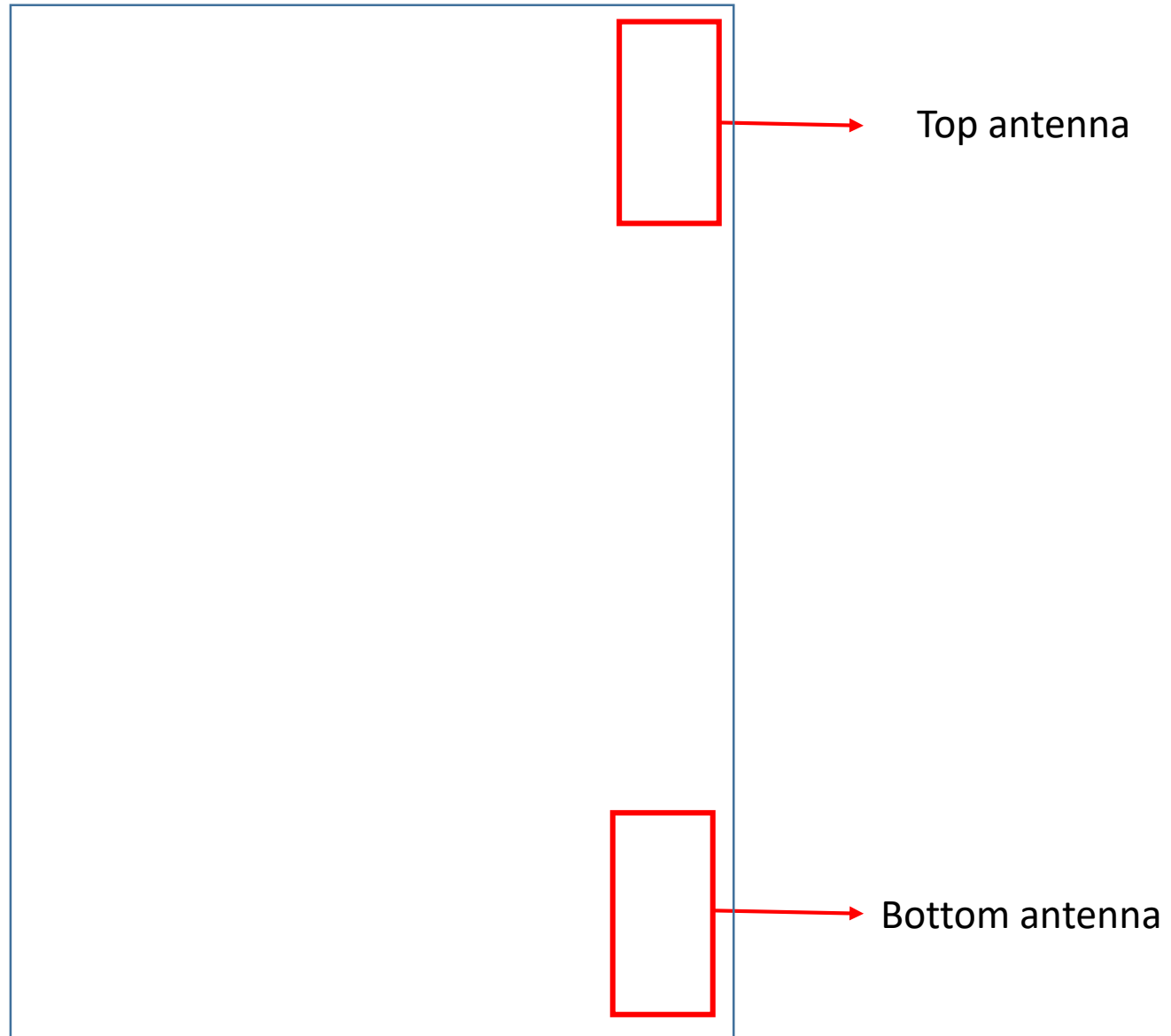
C4A6T4 Antenna Report

C4A6T4 Antenna Gain and Antenna type

- Antenna Peak Gain for HVT-A compliance units :
 - TOP Antenna: -0.3 dBi@ 2.4GH Band, 1.62 dBi@ 5GHz Band
 - Bottom Antenna: -0.1 dBi@ 2.4GH Band, 2.88dBi@ 5GHz Band
- Antenna Type : Sided-Feed PIFA for both Top Antenna and Bottom Antenna
- Antenna Implementation :
 - Top Antenna: FPC + Carrier + RF Coaxial Cable
 - Bottom Antenna: FPC + Carrier + RF Coaxial Cable
- Antenna frequency range:
Top antenna:2.4 to 2.48GHz & 5.15 to 5.85GHz;
Bottom antenna:2.4 to 2.48GHz & 5.15 to 5.85GHz;

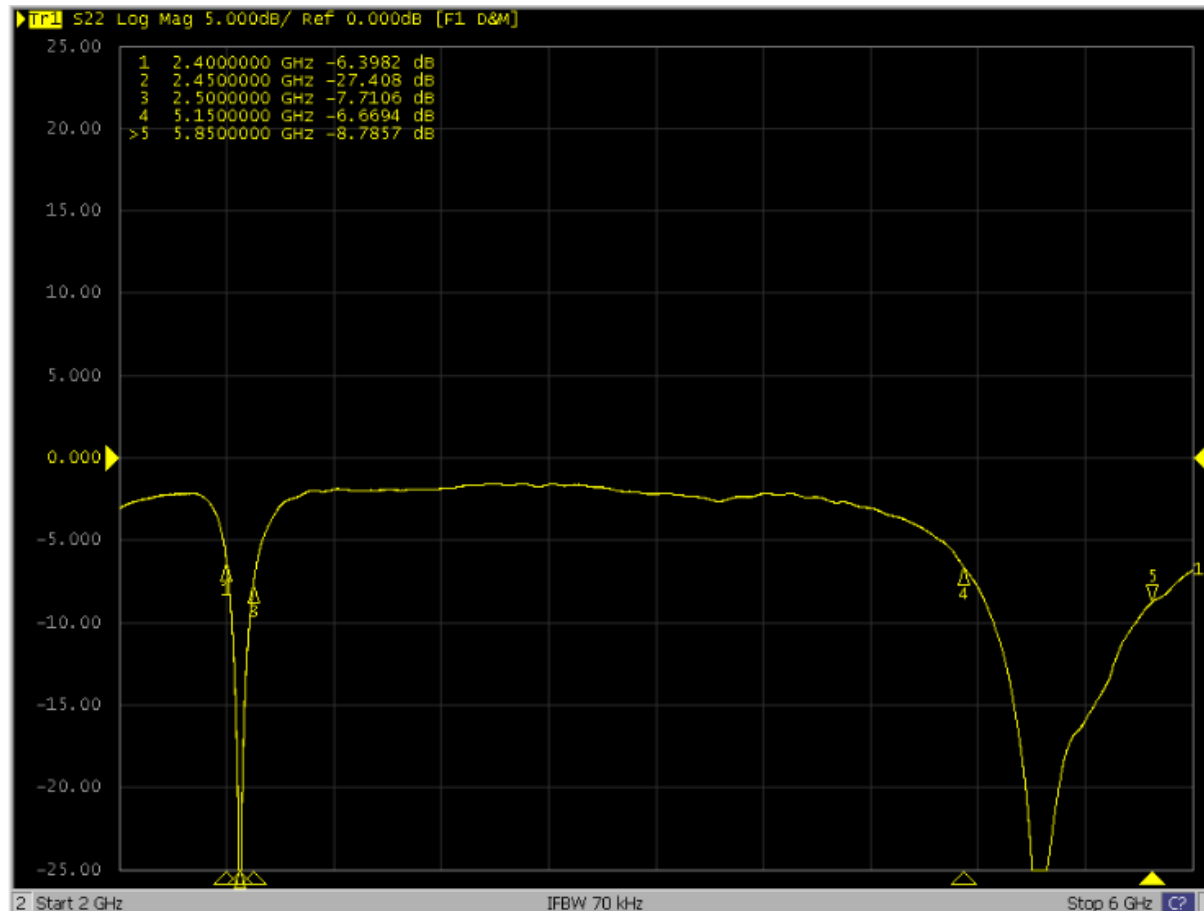
(Antenna gain is for the antenna when installing inside the device)

C4A6T4 Antenna Placement

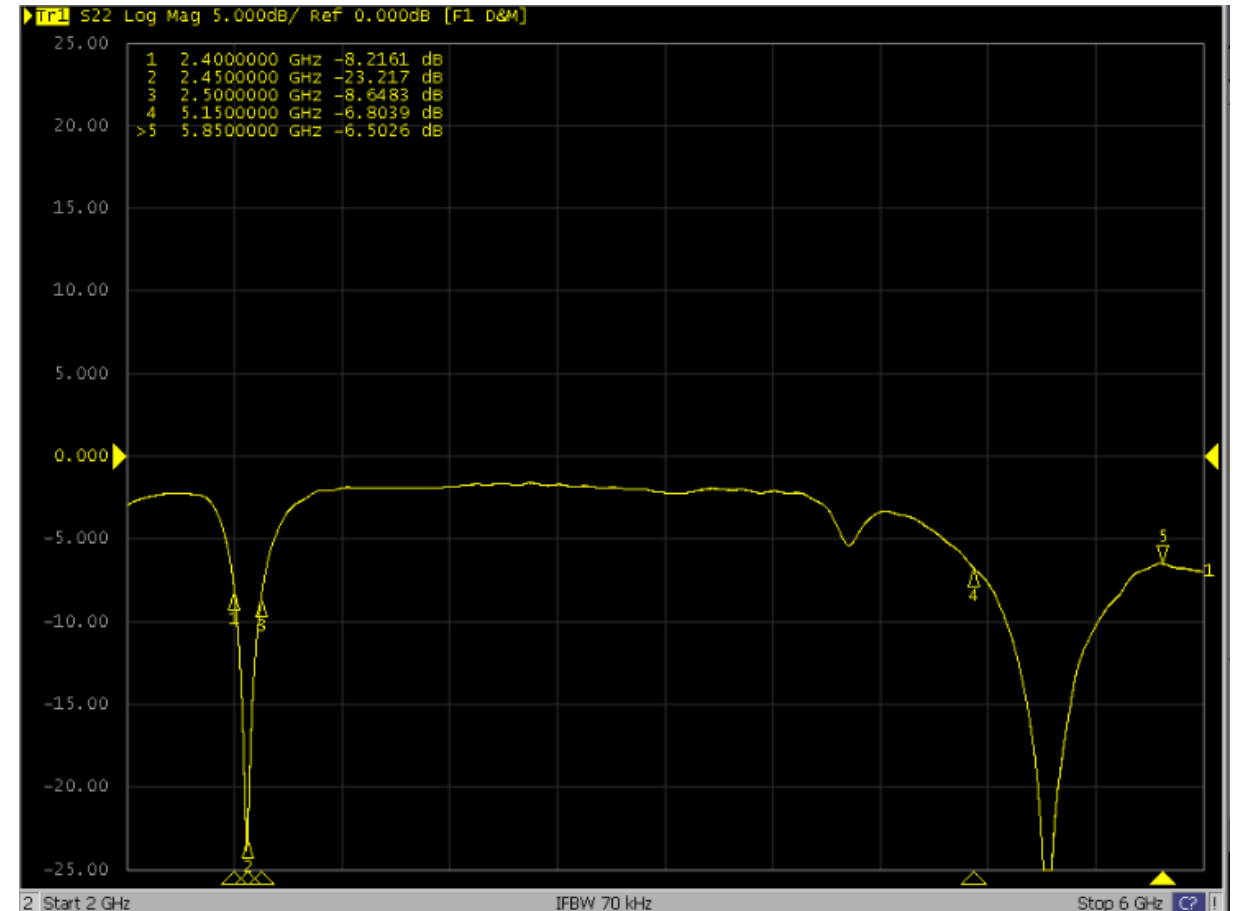


C4A6T4 Antenna Return loss

Top antenna



Bottom antenna



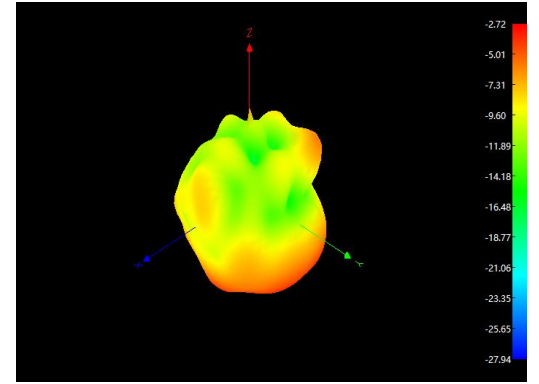
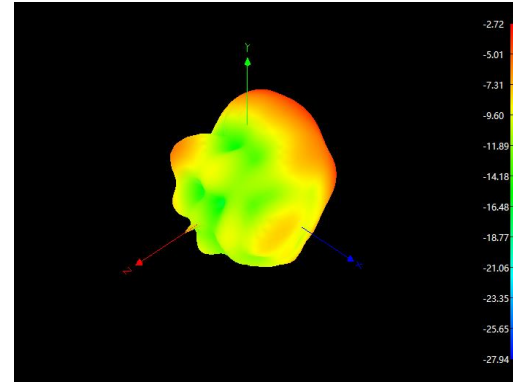
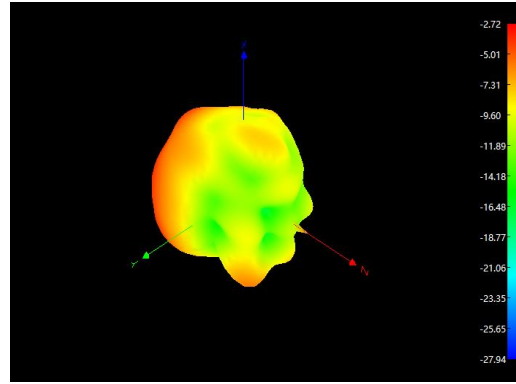
C4A6T4 Antenna Peak Gain & Efficiency

Frequency (MHz)	Top antenna		
	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-7.42	18.11	-1.45
2410	-7.03	19.82	-2.13
2420	-6.76	21.09	-1.68
2430	-6.35	23.17	-0.98
2440	-6.13	24.38	-0.56
2450	-6.04	24.89	-0.41
2460	-5.98	25.23	-0.3
2470	-6.01	25.06	-0.37
2480	-6.07	24.72	-0.49
2490	-5.72	26.79	-0.71
2500	-5.24	29.92	-1.04
5150	-5.24	29.92	-0.27
5250	-5.08	31.05	-0.06
5350	-4.78	33.27	1.44
5450	-4.32	36.98	1.62
5550	-3.96	40.18	0.73
5650	-4.46	35.81	0.24
5750	-4.51	35.40	-0.03
5850	-4.80	33.11	0.45

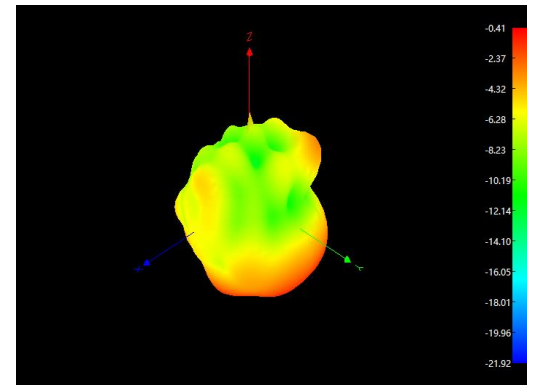
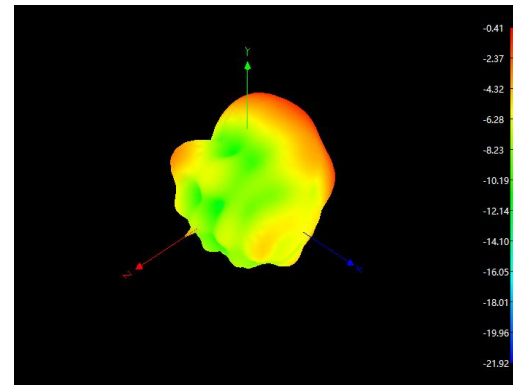
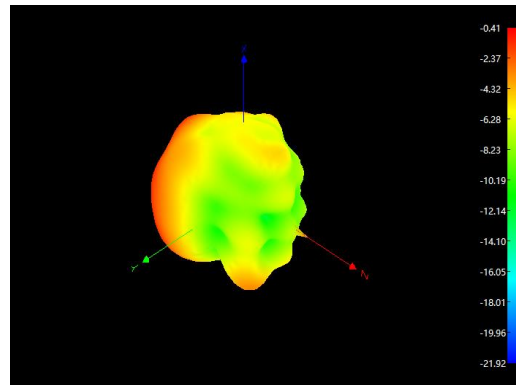
Frequency (MHz)	Bottom antenna		
	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-7.60	17.38	-1.87
2410	-7.24	18.88	-1.15
2420	-7.16	19.23	-0.6
2430	-6.97	20.09	-0.17
2440	-6.91	20.37	-0.1
2450	-6.90	20.42	-0.14
2460	-6.90	20.42	-0.38
2470	-6.98	20.04	-0.73
2480	-7.03	19.82	-0.94
2490	-5.64	27.29	-1.32
2500	-5.02	31.48	-1.72
5150	-5.00	31.62	0.52
5250	-4.78	33.27	0.83
5350	-4.40	36.31	2.09
5450	-4.11	38.82	2.84
5550	-3.79	41.78	2.88
5650	-4.23	37.76	2.77
5750	-4.37	36.56	1.68
5850	-4.55	35.08	1.47

C4A6T4 Antenna Radiation Pattern-Top Antenna

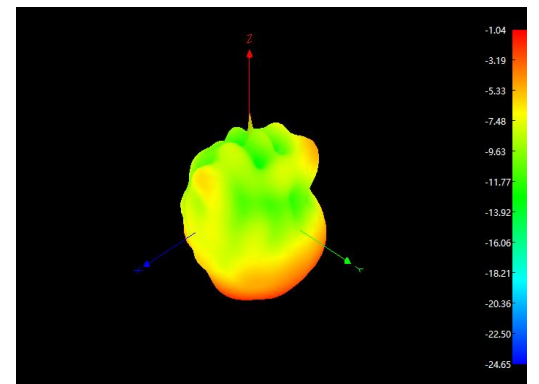
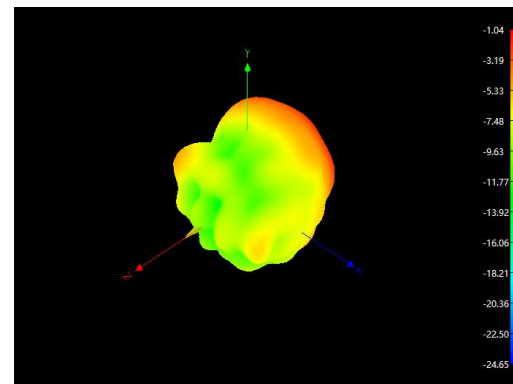
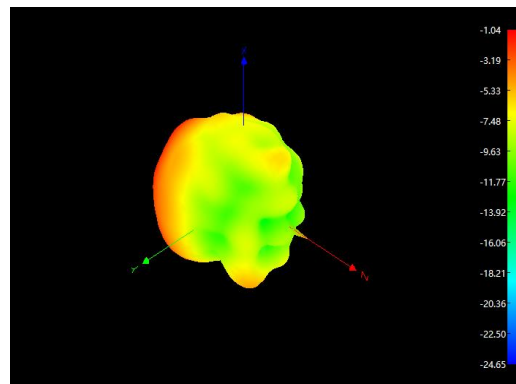
WIFI@2.4GHz



WIFI@2.45GHz

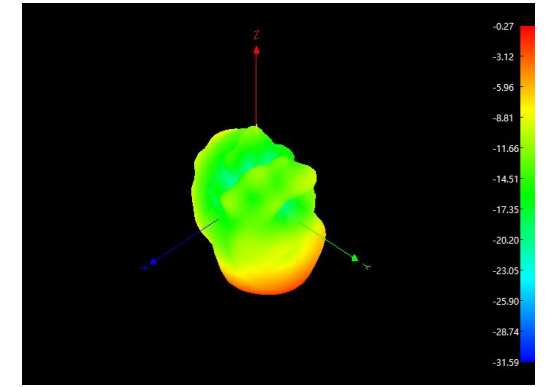
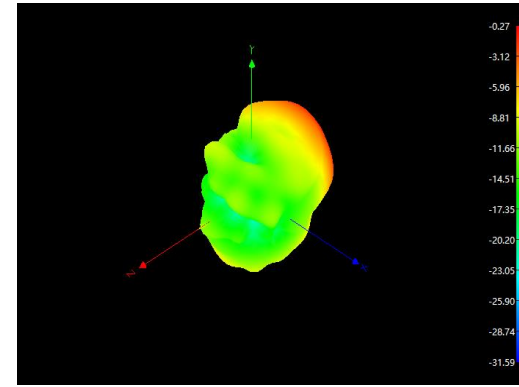
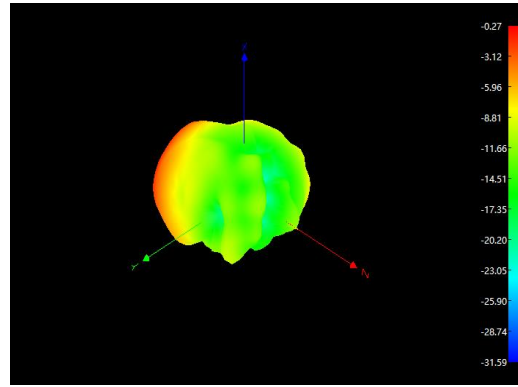


WIFI@2.5GHz

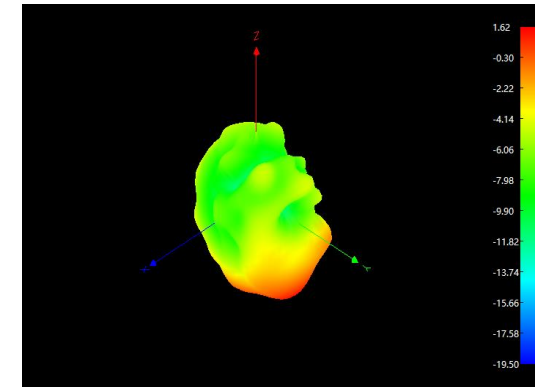
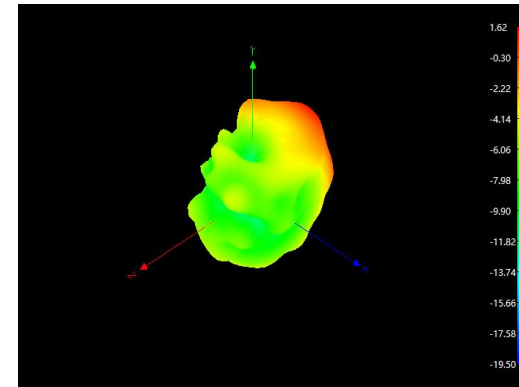
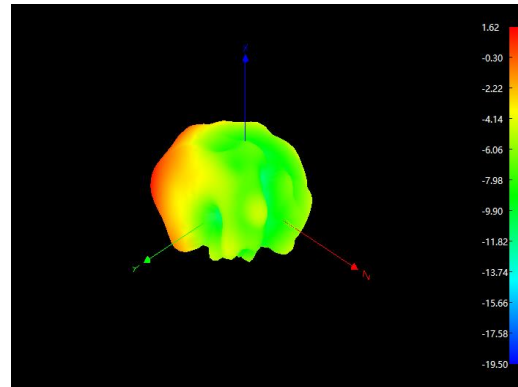


C4A6T4 Antenna Radiation Pattern-Top Antenna

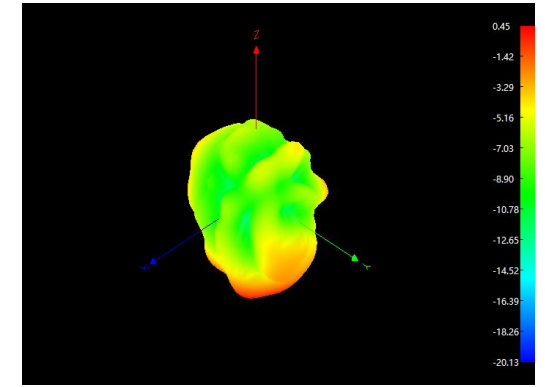
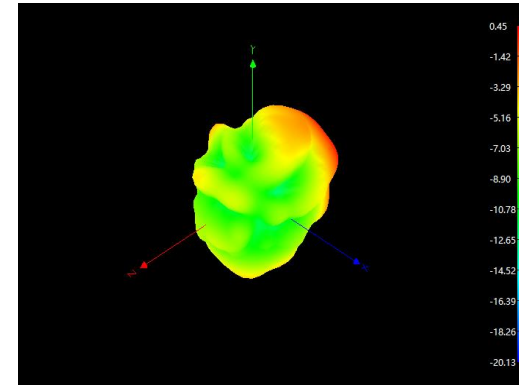
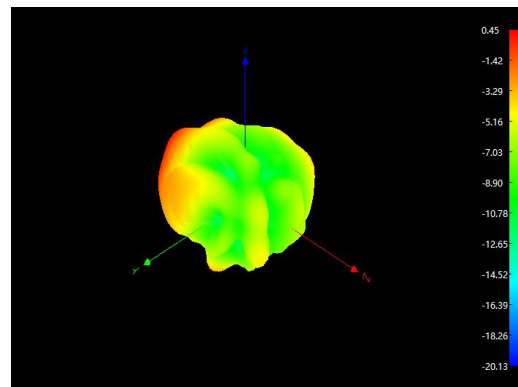
WIFI@5.15GHz



WIFI@5.45GHz

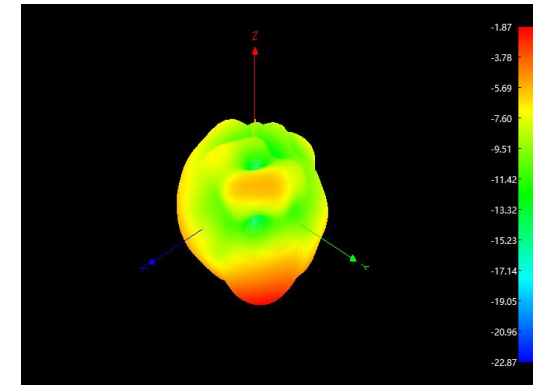
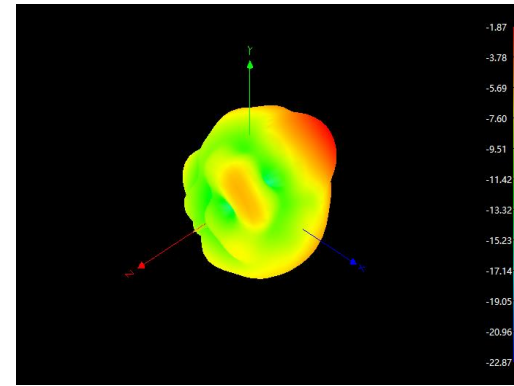
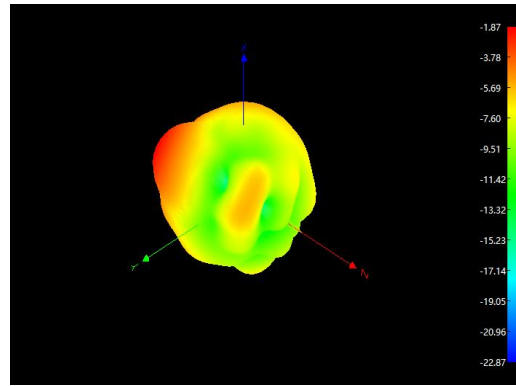


WIFI@5.85GHz

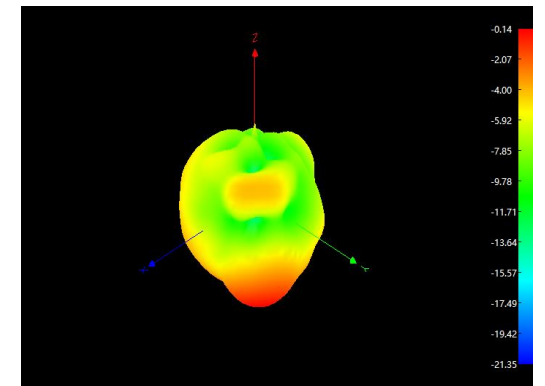
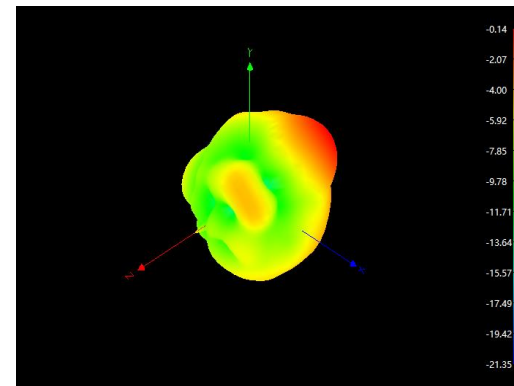
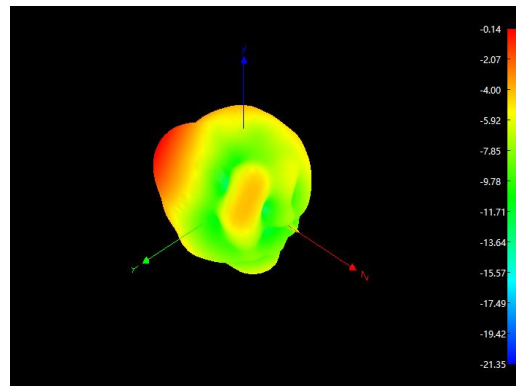


C4A6T4 Antenna Radiation Pattern-Bottom Antenna

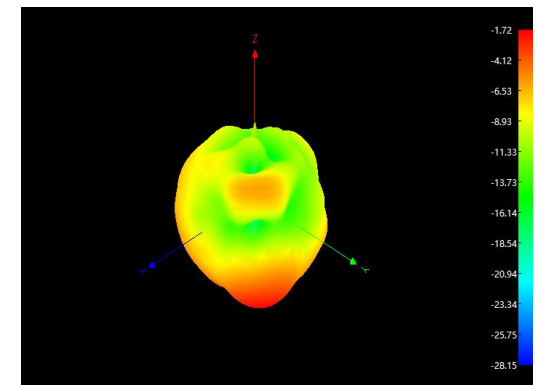
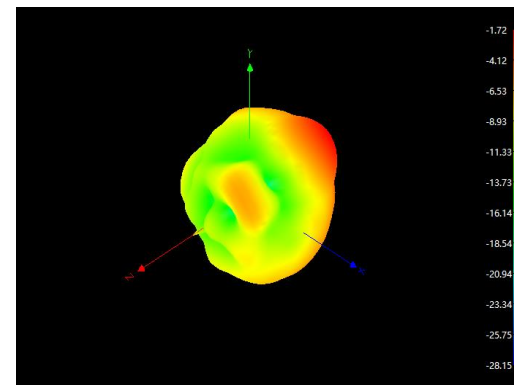
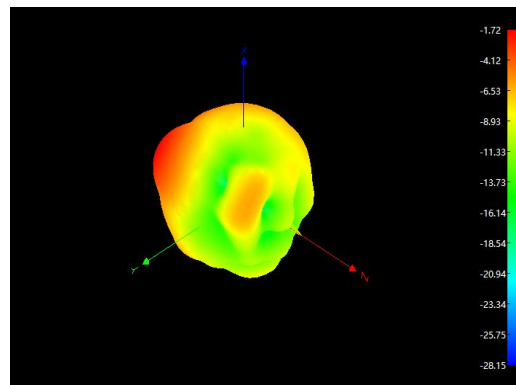
WIFI@2.4GHz



WIFI@2.45GHz

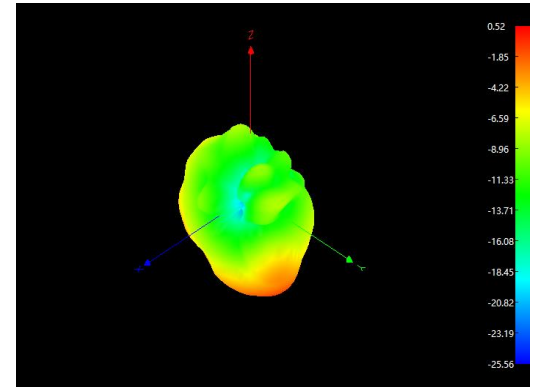
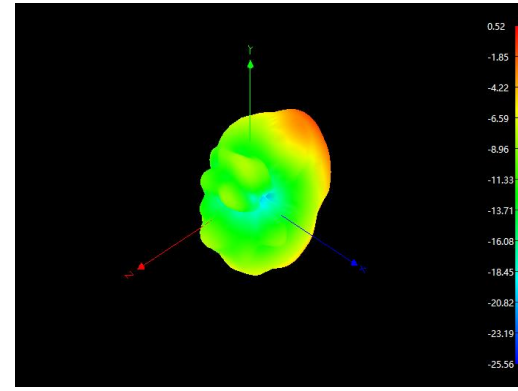
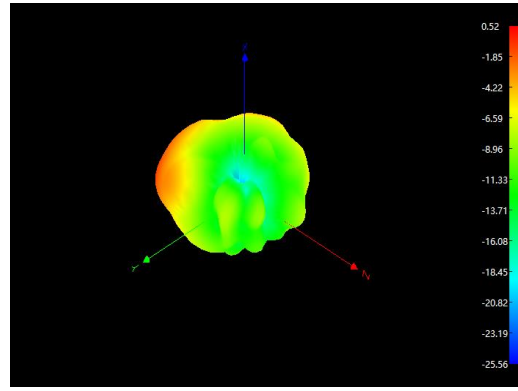


WIFI@2.5GHz

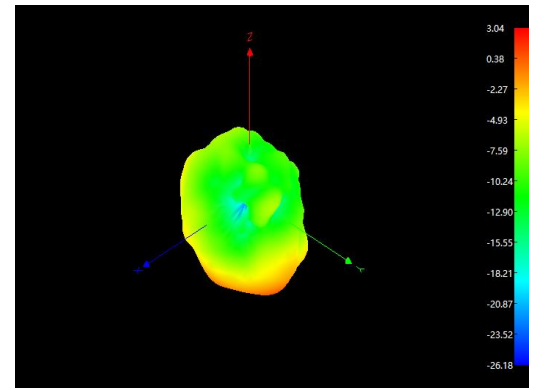
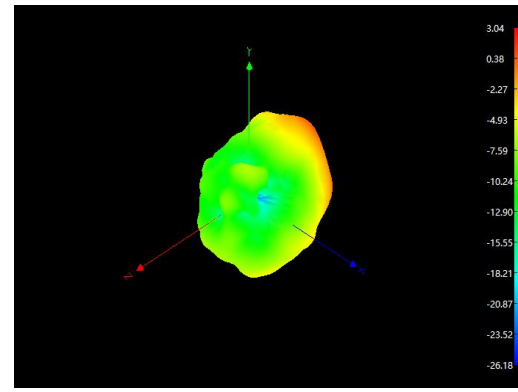
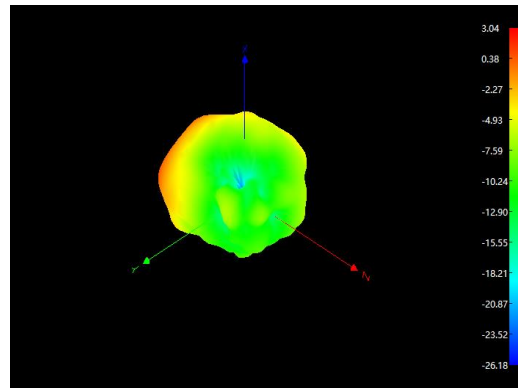


C4A6T4 Antenna Radiation Pattern-Bottom Antenna

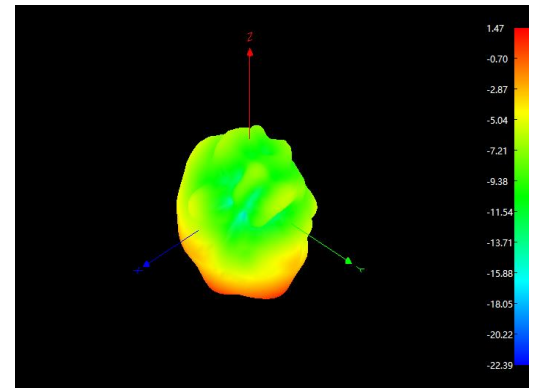
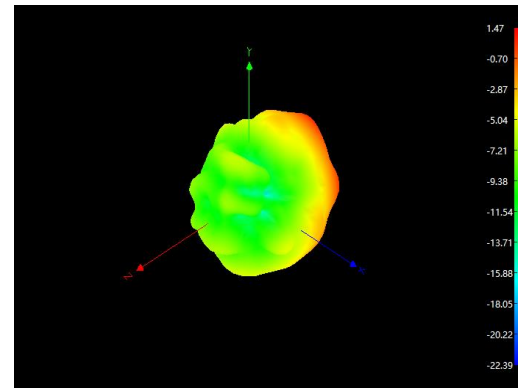
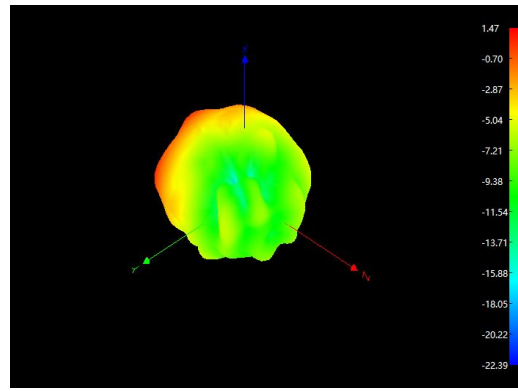
WIFI@5.15GHz



WIFI@5.45GHz



WIFI@5.85GHz



Test procedure and Test equipment

- Test procedure:

Implement passive fixture for passive test

Place the fixture in the chamber and fix it in the holder

Set up the frequency range, step and angle sweep step of test

Start test and collect test data

- Test equipment

Chamber: Far field chamber. Model: TEM24

Instrument: Network analyzer. Model: E5071C

Software: TemRadio Passive V2.6.0