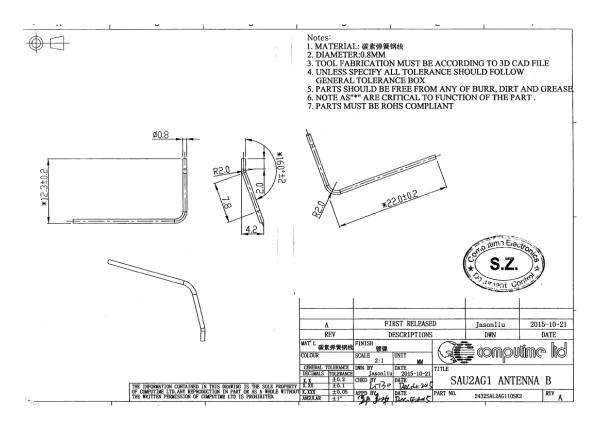
ZigBee/BT antenna specification

1. This is PCB trace antenna, Dimension drawing is show below



2. Antenna Gain and Efficiency

Frequency (MHz)	Efficiency(%)	Gain(dBi)
2400	46	2.5
2410	44	2.4
2420	48	3.0
2430	50	3.3
2440	49	3.2
2450	45	2.8
2460	47	2.9
2470	45	2.4
2480	49	2.9
2490	38	1

- 3. S11: <-10dB
- 4. Impedance: 50 ohm
- 5. Radiation Pattern

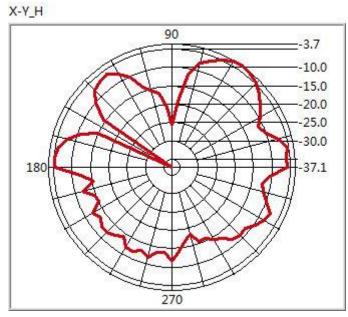


Figure 1



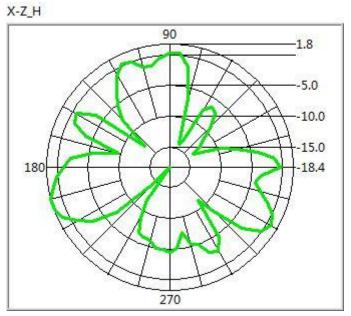


Figure 2

Max = 1.763 dBi @ 195 Degree Min = -18.351 dBi @ 230 Degree

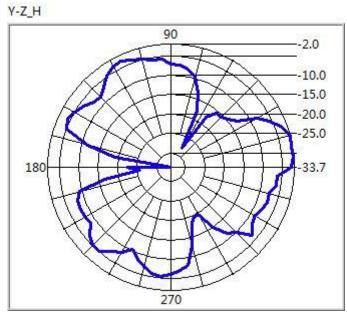


Figure 3



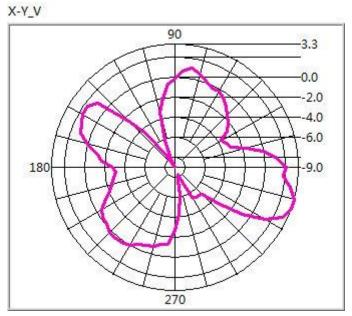


Figure 4

Max = 3.347 dBi @ 340 Degree Min = -9.034 dBi @ 120 Degree

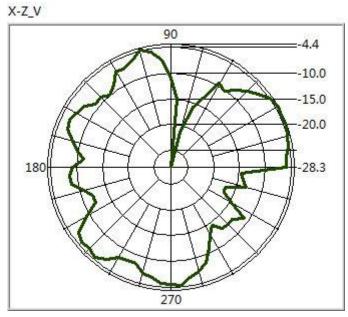
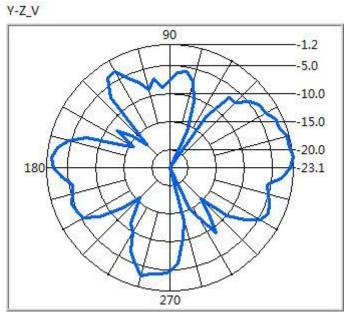


Figure 5







Max = -1.243 dBi @ 5 Degree Min = -23.137 dBi @ 290 Degree