



Tymphany EZ3 _Test data



Aku Huang 2016/12/15

EVERY CONNECTION COUNTS

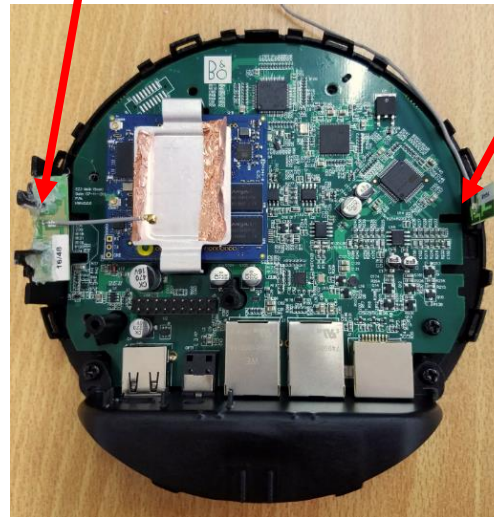


Antenna position

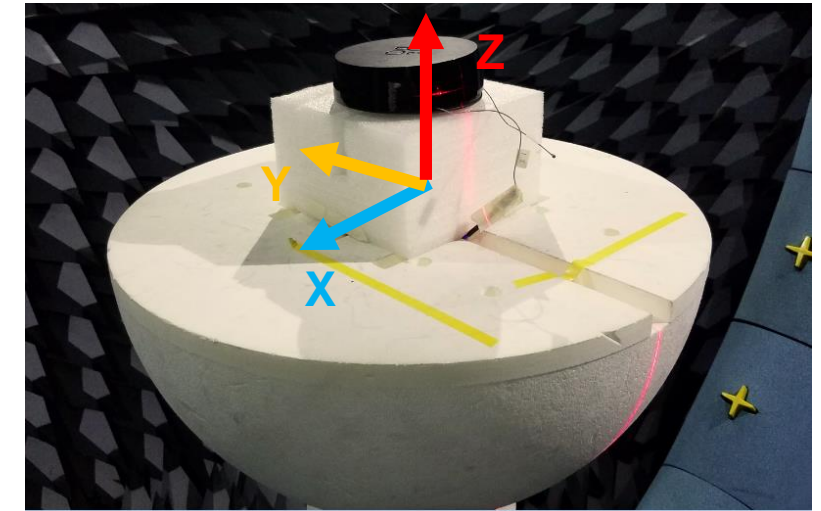
Whole unit



Antenna 2 on horizontal direction



Antenna 1 on vertical direction



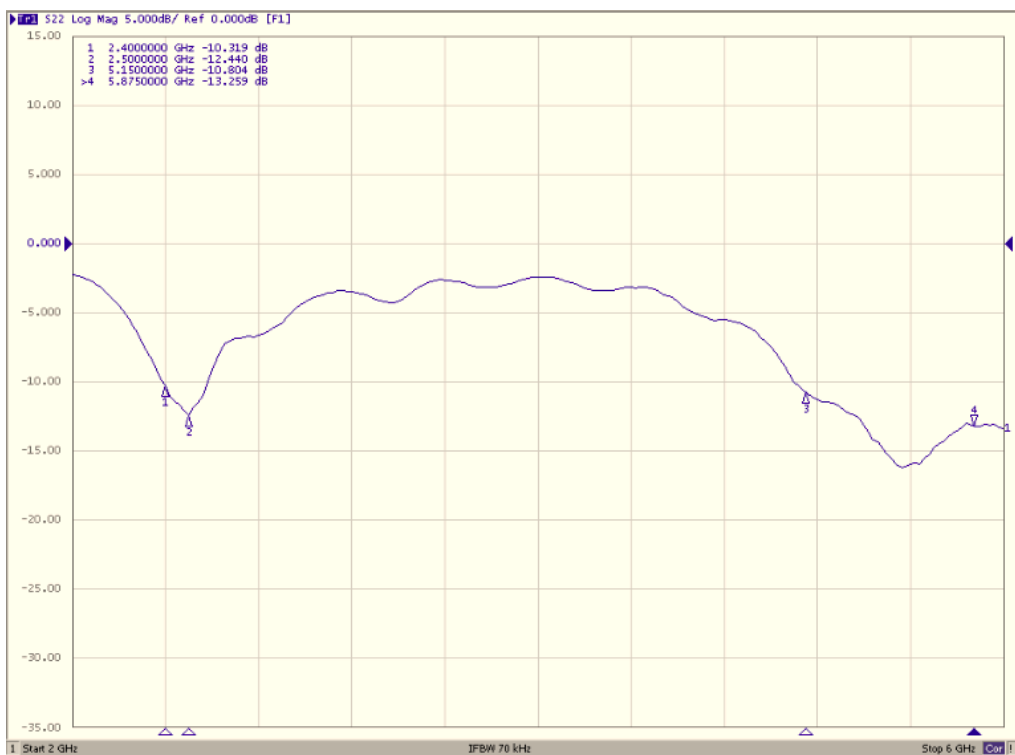
Antenna axes in SG24 chamber

Antenna 2 cable length is 30mm. Antenna 1 cable length is 180mm.

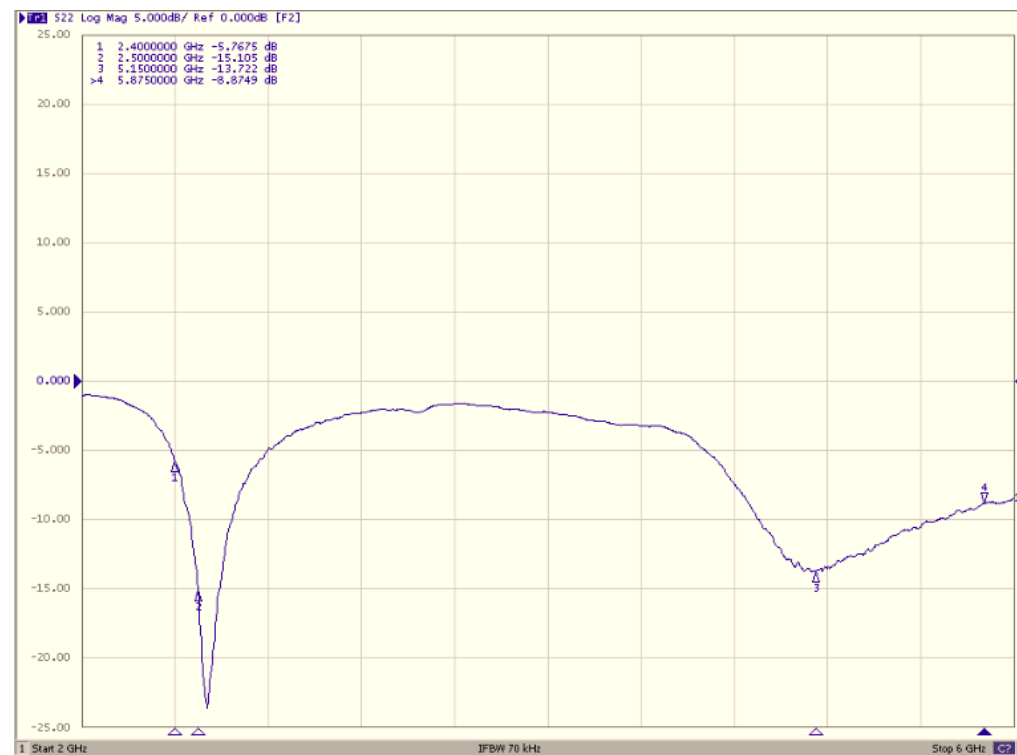
Measurement System : Satimo 3D chamber system

Network Analyzer : Agilent E5071C

Return loss



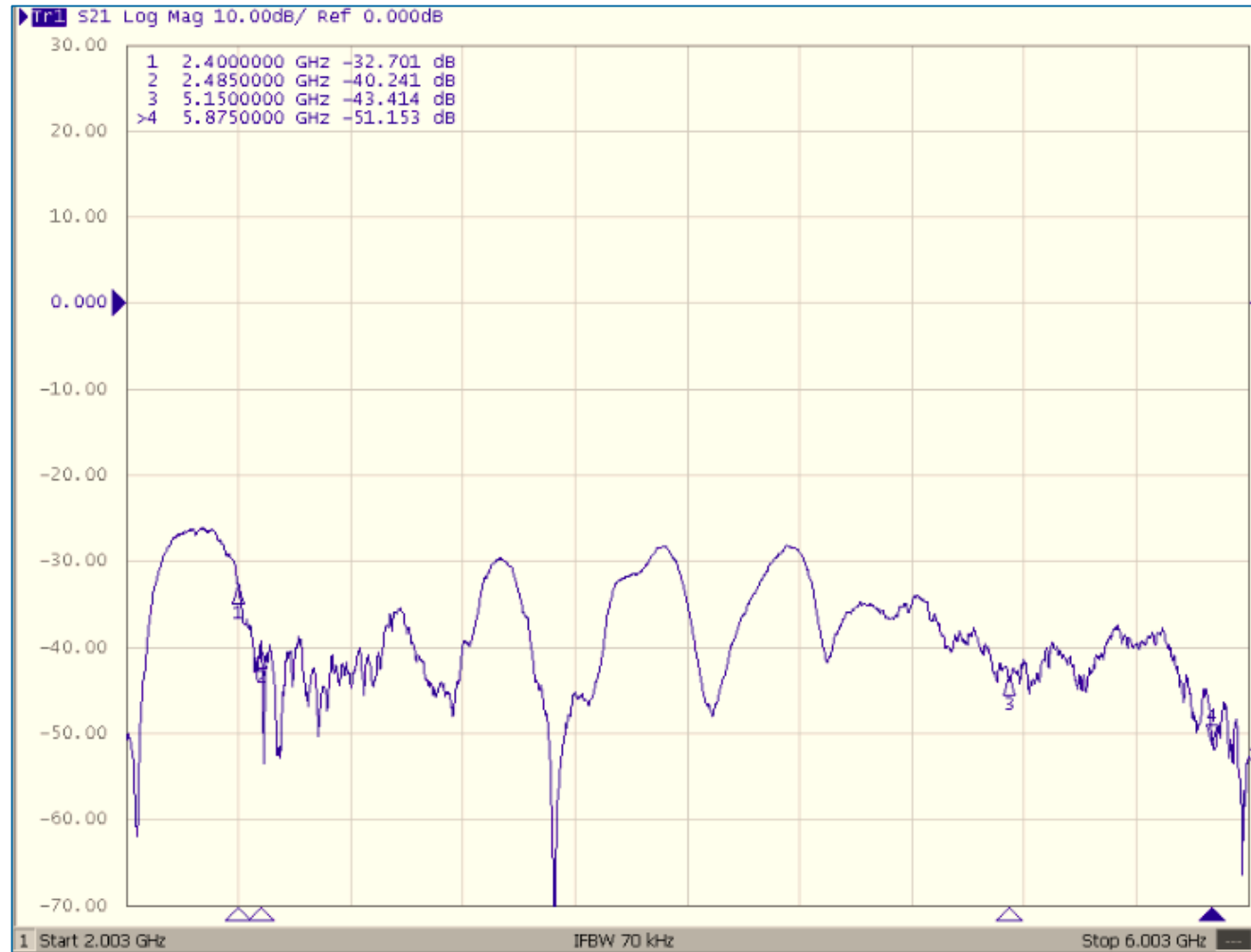
Antenna 1



Antenna 2



Isolation



Efficiency & Peak gain

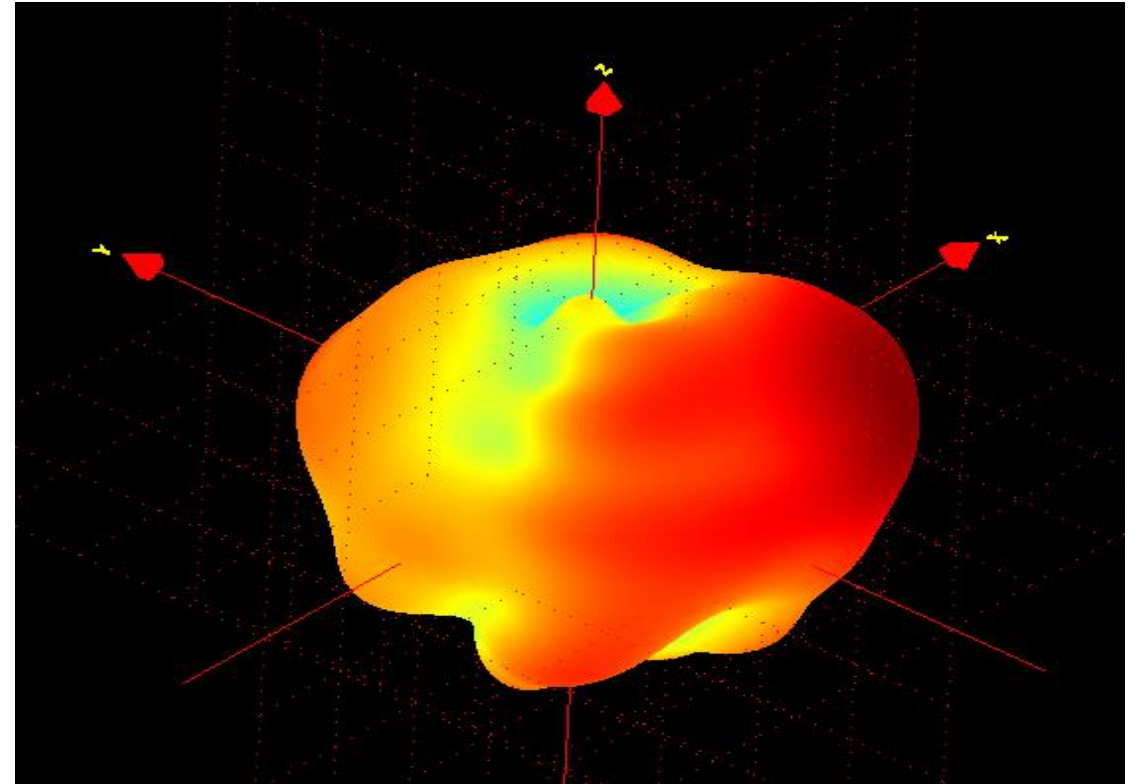
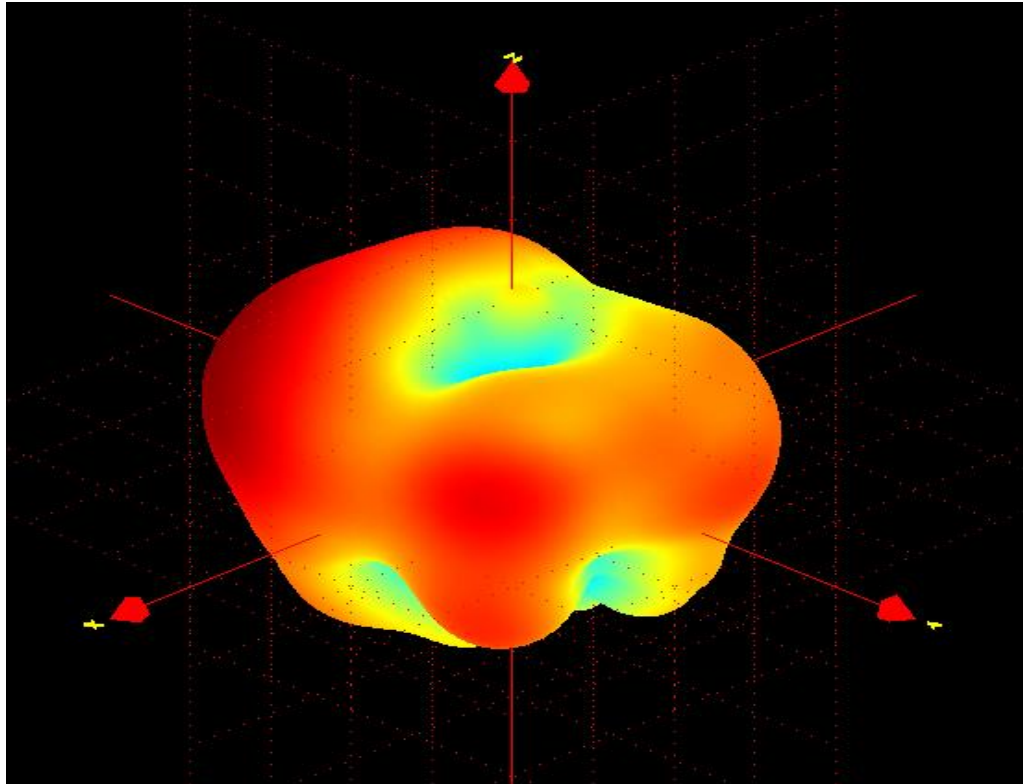
Freq (MHz)	Efficiency	Peak gain
2400	-2.3	2.8
2442	-2.2	2.9
2484	-2.2	3.2
5150	-3.1	2.8
5250	-1.2	5.8
5350	-2.0	3.4
5470	-2.2	4.6
5725	-2.3	4.0
5785	-2.1	4.3
5875	-2.5	3.4

Antenna 1

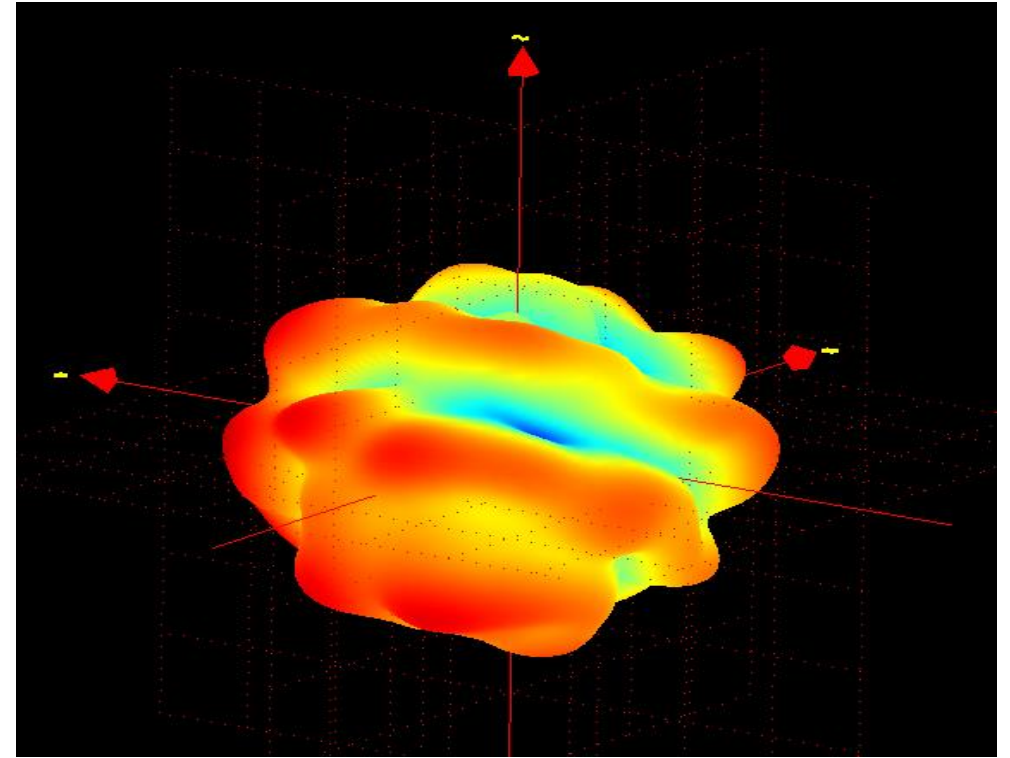
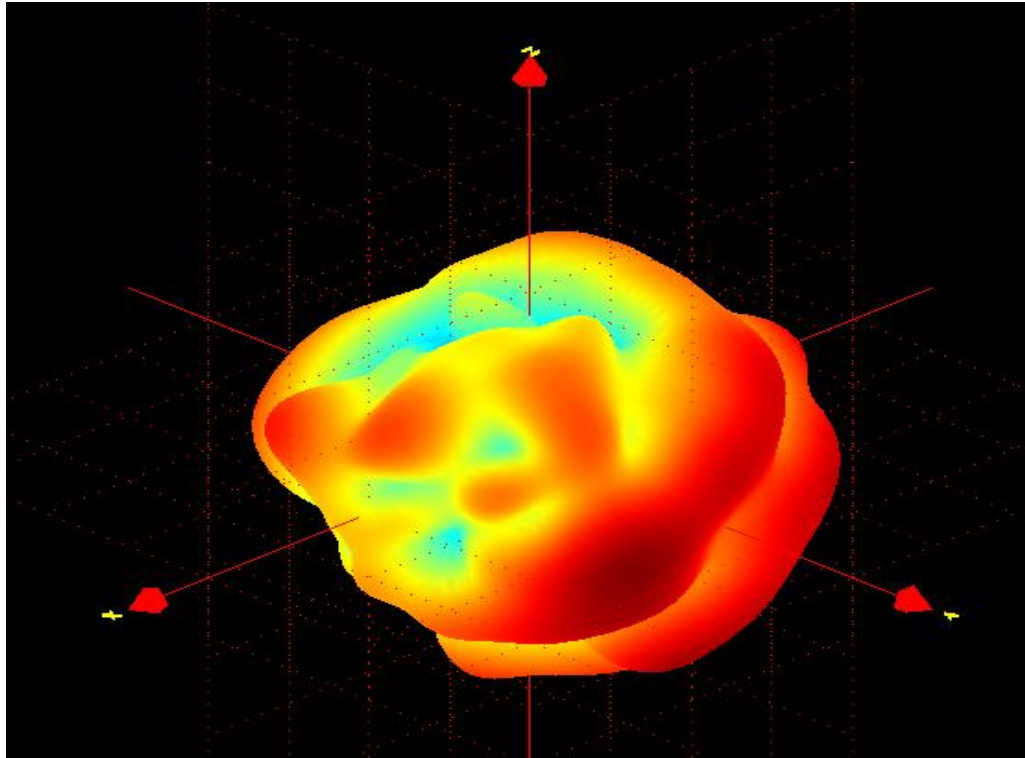
Freq (MHz)	Efficiency	Peak gain
2400	-2.3	3.3
2442	-2.1	3.7
2484	-2.7	3.1
5150	-2.4	3.7
5250	-1.9	5.4
5350	-1.9	4.2
5470	-2.4	4.6
5725	-2.4	3.4
5785	-1.9	4.5
5875	-2.4	3.8

Antenna 2

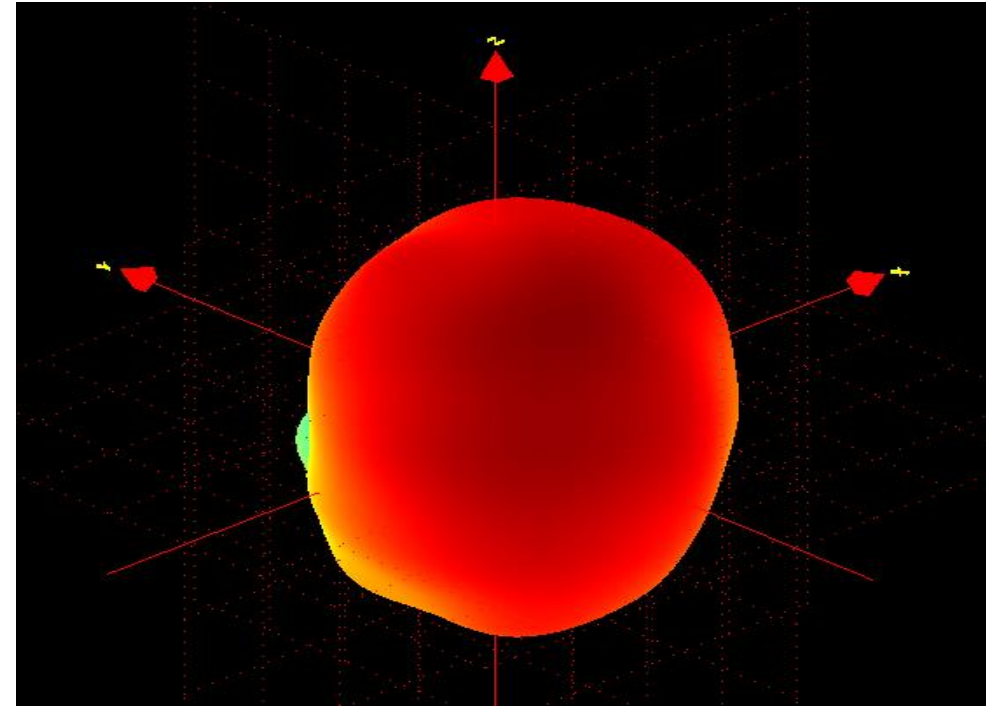
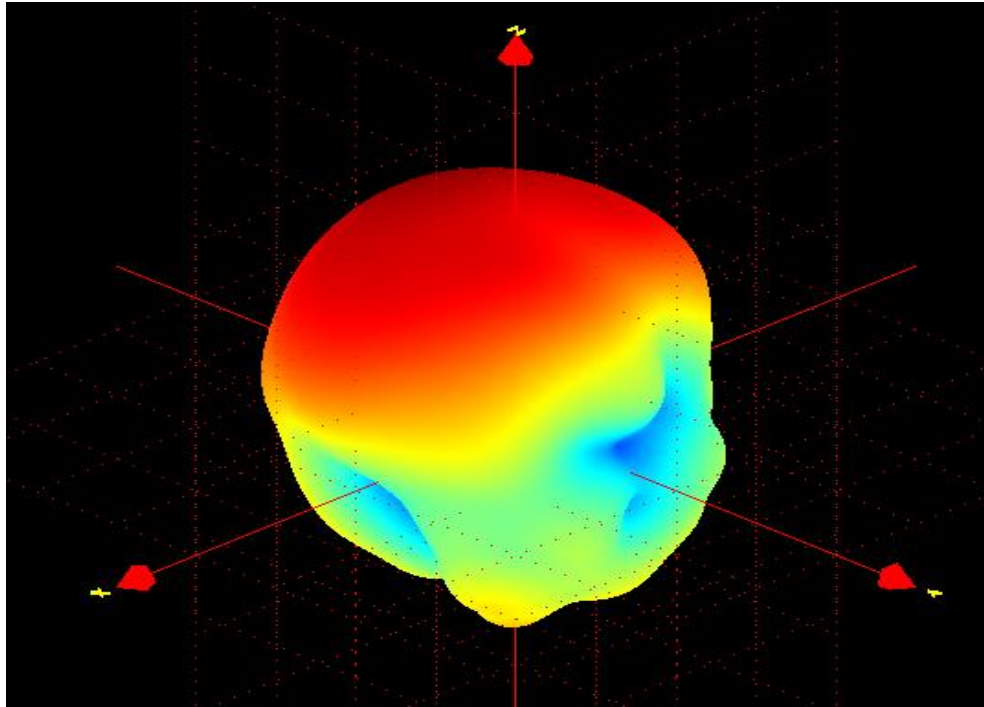
3D Radiation Pattern _antenna 1_2.42GHZ



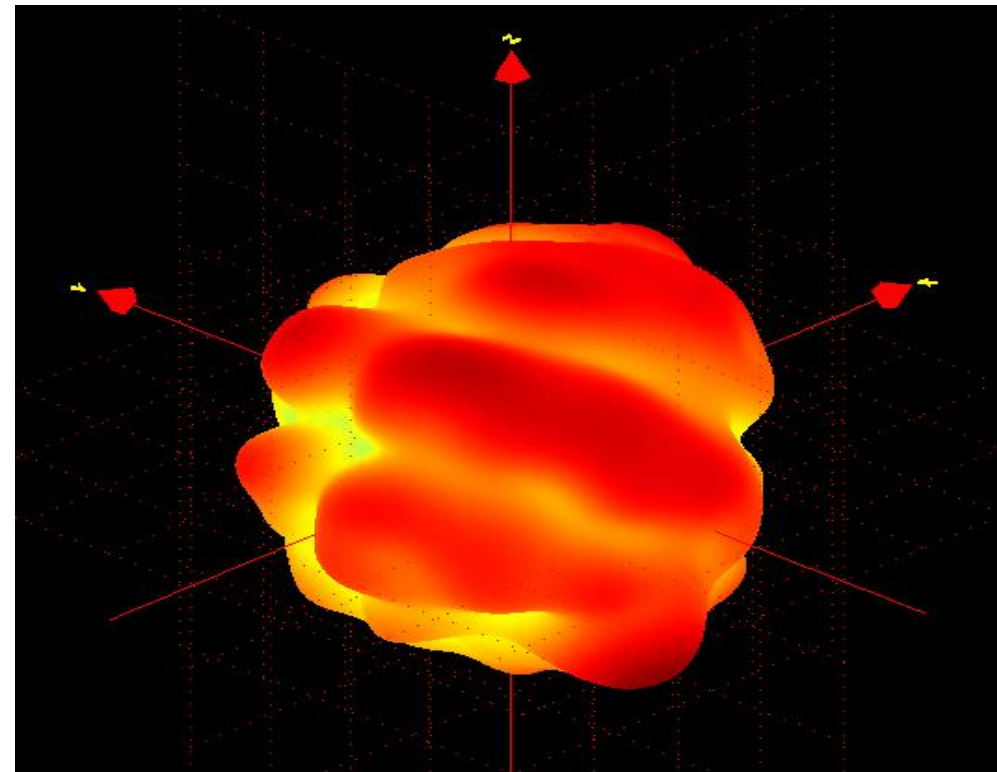
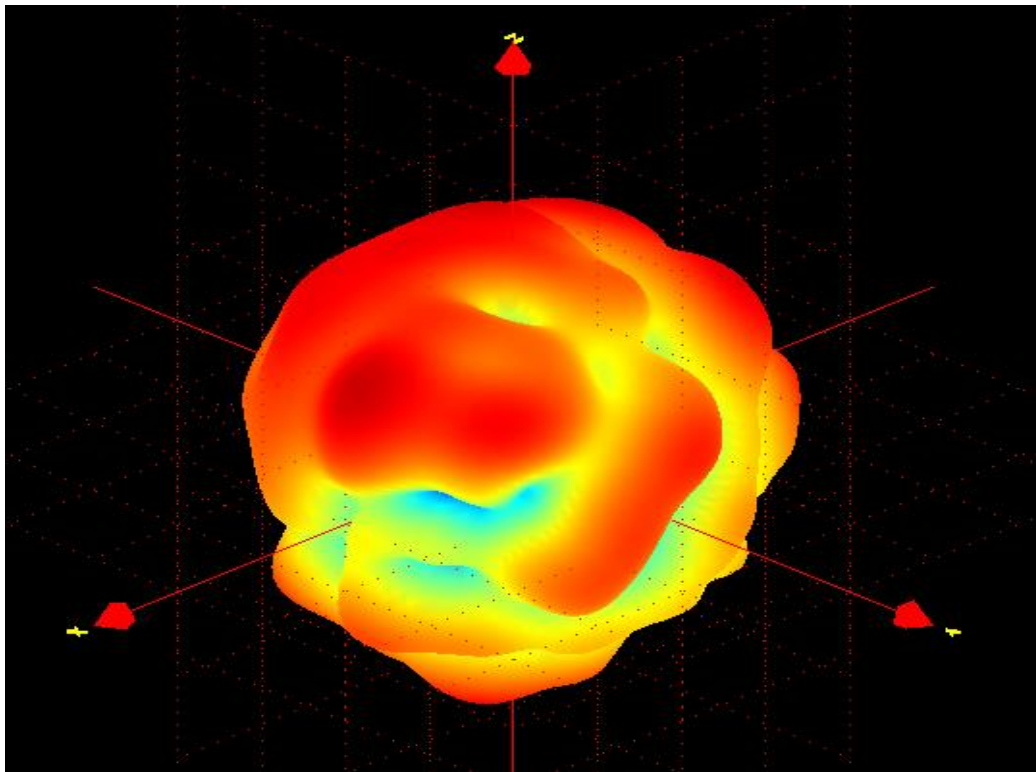
3D Radiation Pattern _antenna 1_5.47GHZ



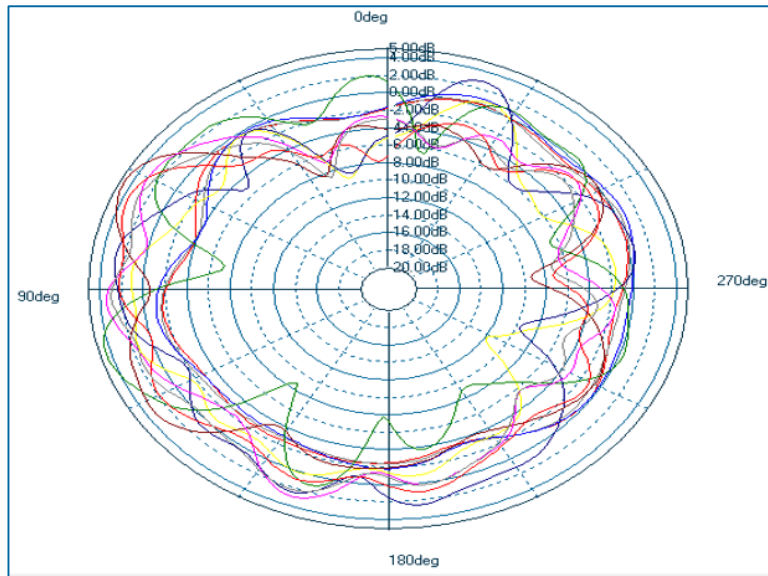
3D Radiation Pattern _antenna 2_2.42GHZ



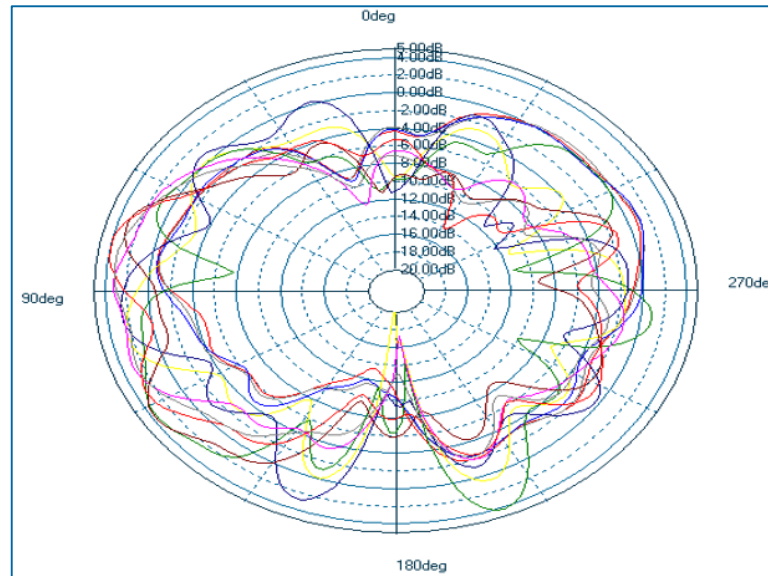
3D Radiation Pattern _antenna 2_5.47GHZ



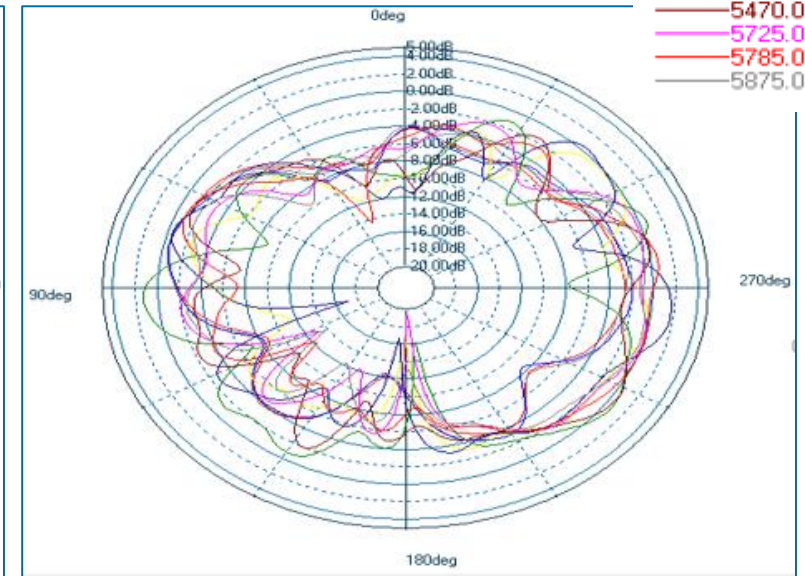
2D Radiation Pattern _antenna 1



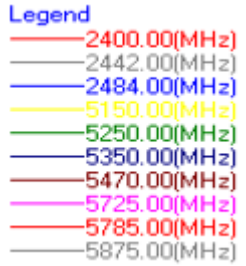
Theta=90 (XY plane)



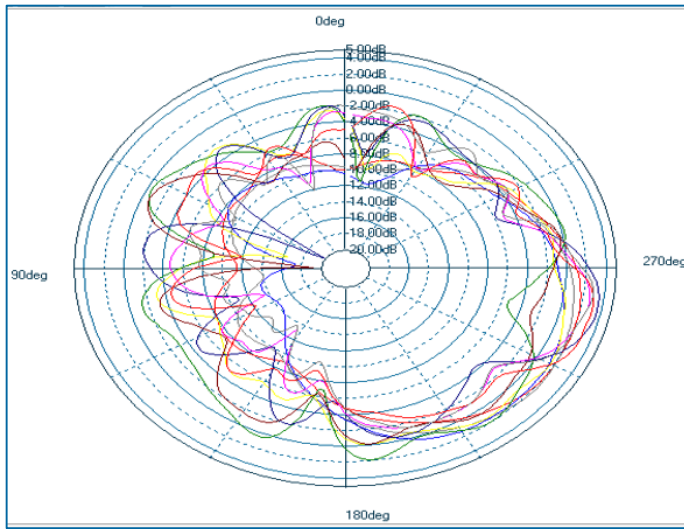
Phi=90 (XZ plane)



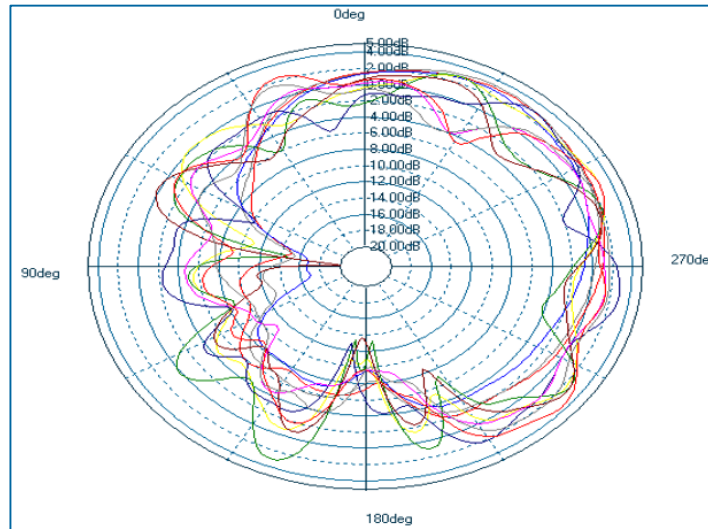
Phi=0 (YZ plane)



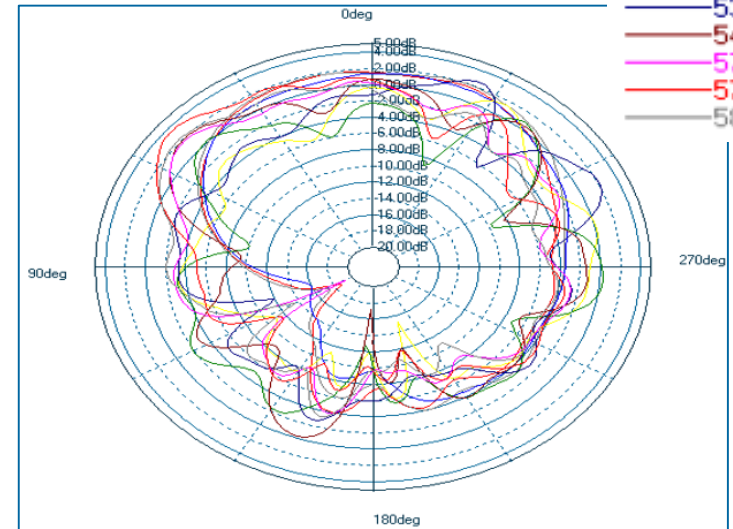
2D Radiation Pattern _antenna 2



Theta=90 (XY plane)



Phi=90 (XZ plane)



Phi=0 (YZ plane)

