

PCA5016-2B antenna report

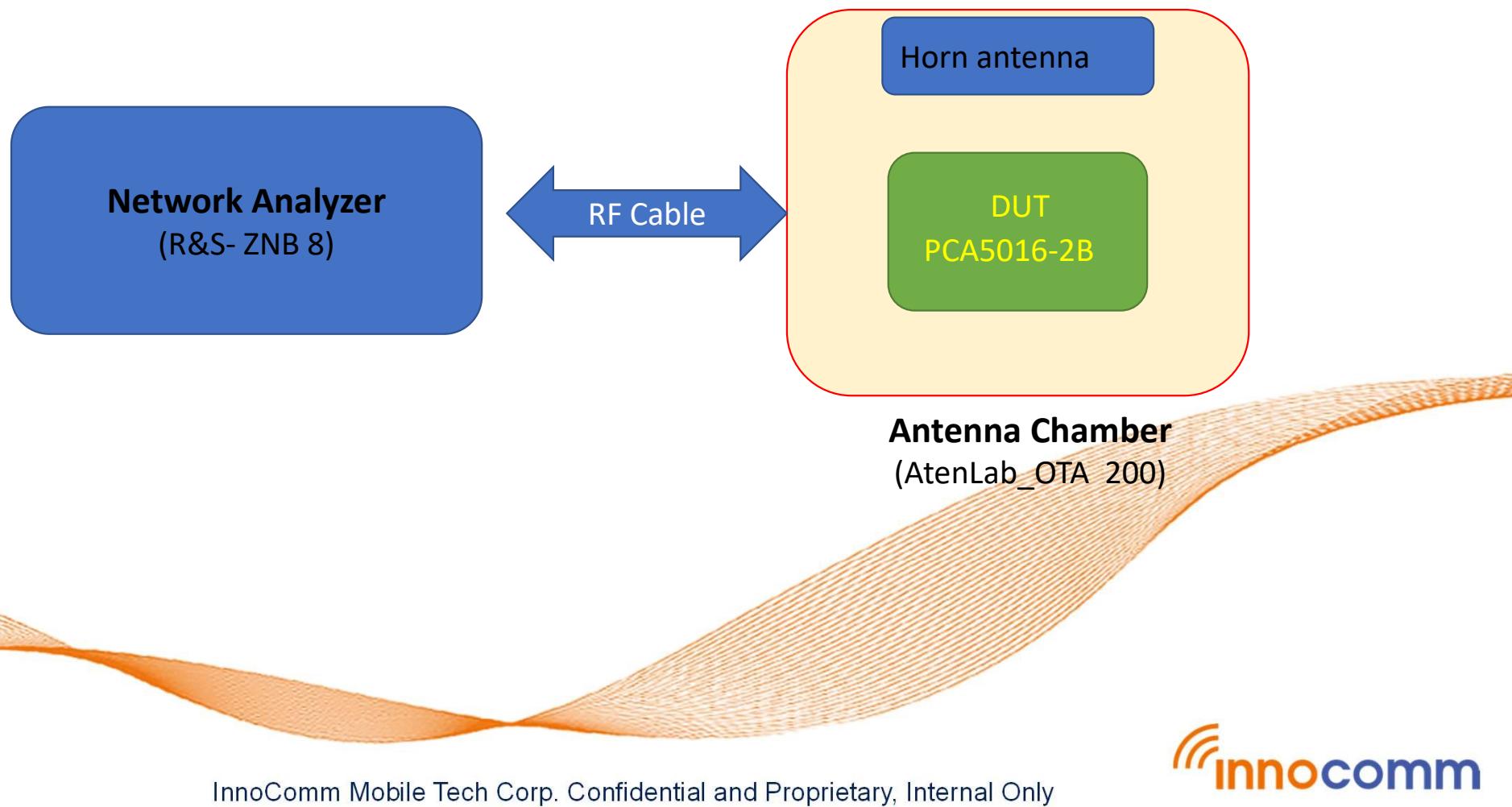
SETUP CONDITION

Measured Frequency range:

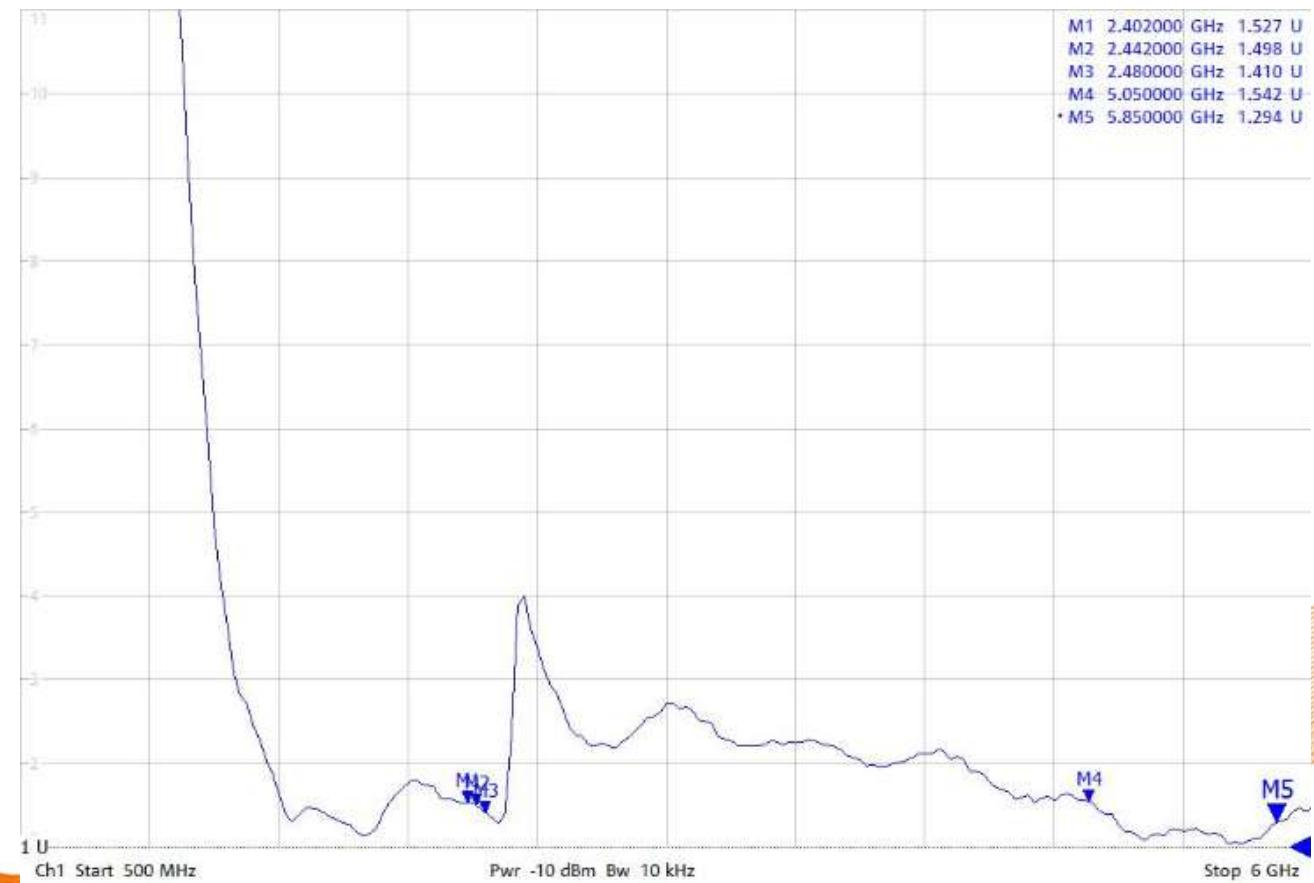
2.4G: 2402 ~ 2480 MHz

5G: 5050 ~ 5835 MHz

EQUIPMENT SETUP



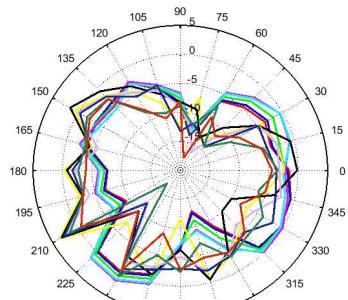
VSWR (Requirement spec. ≤ 4)



Radiation Pattern

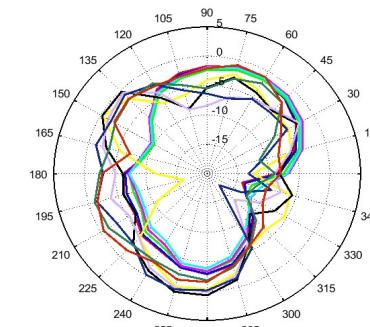
	Color	Freq./Chan.
1	Red	2.402GHz
2	Blue	2.412GHz
3	Green	2.442GHz
4	Magenta	2.472GHz
5	Cyan	2.482GHz
6	Yellow	5.05GHz
7	Black	5.18GHz
8	Purple	5.32GHz
9	Dark Blue	5.62GHz
10	Dark Green	5.835GHz

Total_Polar Graph_E1_XZ Plane



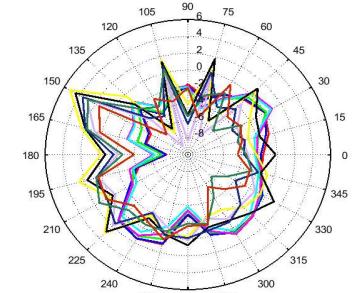
E1 plane

Total_Polar Graph_H_XY Plane



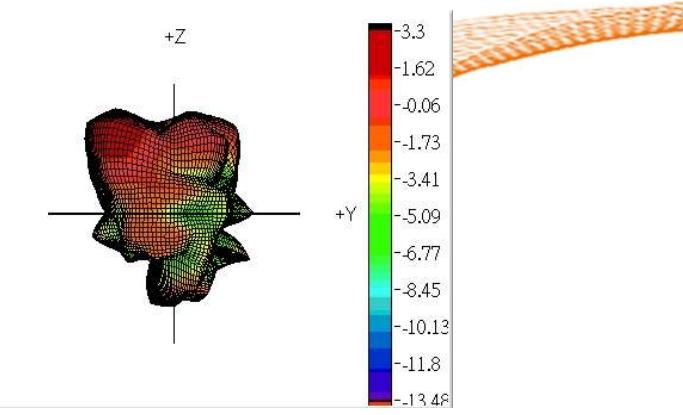
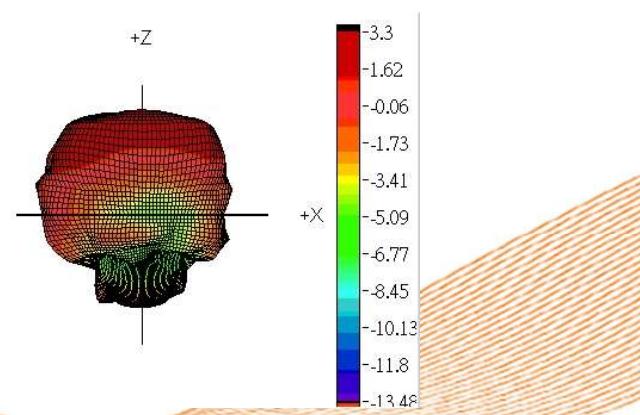
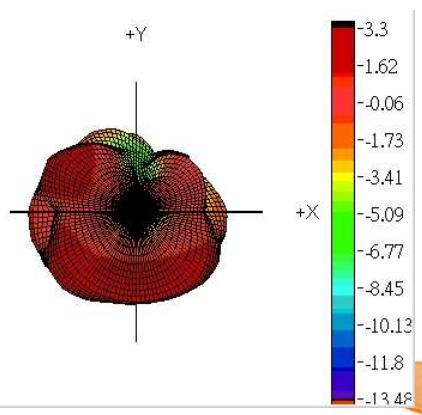
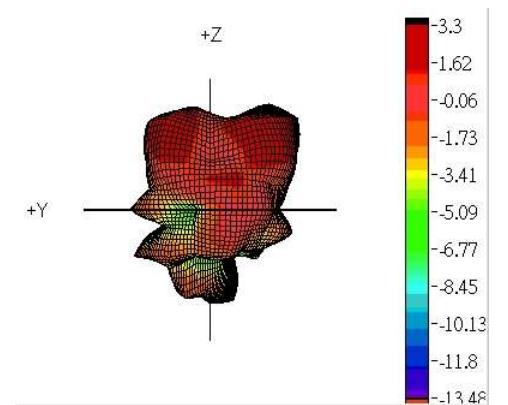
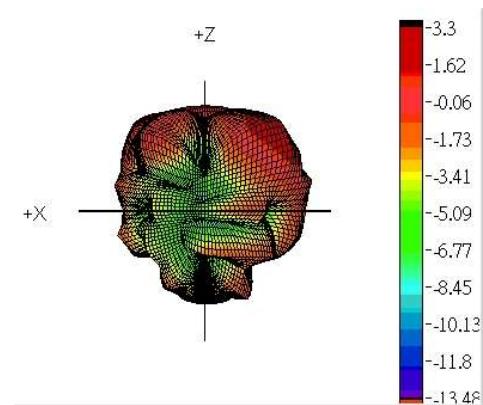
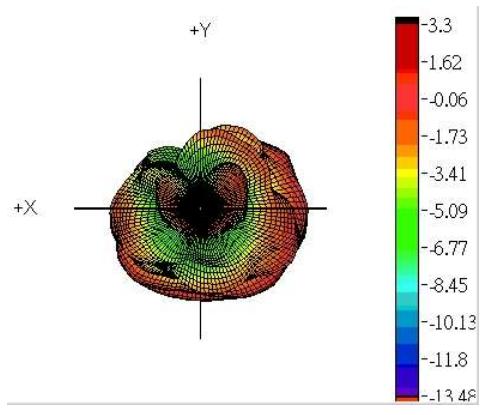
H plane

Total_Polar Graph_E2_YZ Plane



E2 plane

3D Radiation Pattern @2472MHz



Summary

PCA5016-2B	Average efficiency(%)	Average Gain(dBi)	Peak Gain(dBi)	Antenna Type
	(Requirement spec. \geq 40%)	(Requirement spec. \geq -4dBi)		
2.4G	56.39	-2.34	3.78	PCB
5G	54.13	-2.56	4.76	PCB