

Request for Approval

Manufacturer: Suprema Inc.

Model Name: XPQ2

Product: XPQ2 BLE Antenna

page2 ----- Antenna Spec & VSWR&Smith Chart

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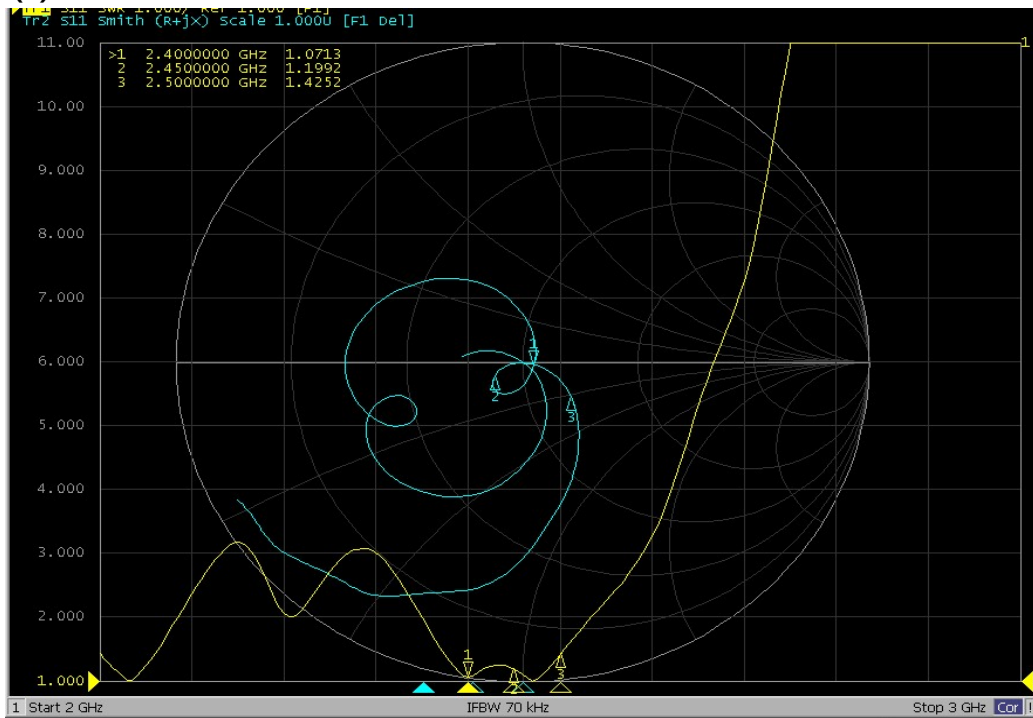
page4 ----- Antennan Drawings & Photographs

1. Antenna Spec & VSWR

(1) Spec

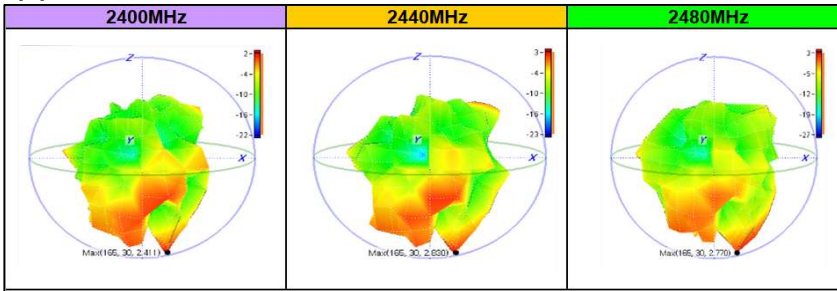
Band	2.4GHz ISM
Frequency	2.4~2.483GHz
VSWR	≤ 2.0
Peak Gain	2.95dBi
Avg Gain	-5.83dBi
Directivity	Directional
Polarization	Linear
Impedance	50 Ohms
TYPE	PCB(FR4) type Mono-pole

(2) VSWR & Smith Chart



2. Antenna Gain & Radiation Pattern

(1) 3D Gain

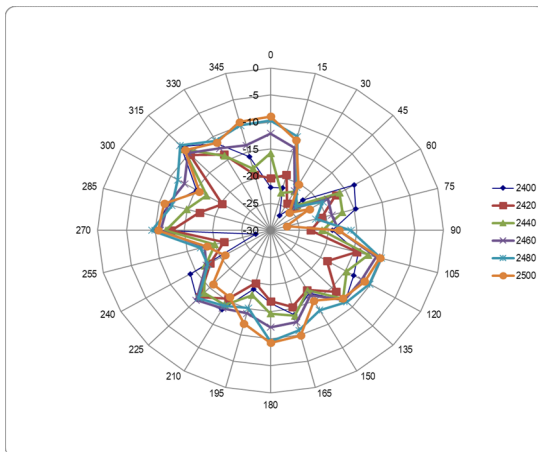


2. Test Results

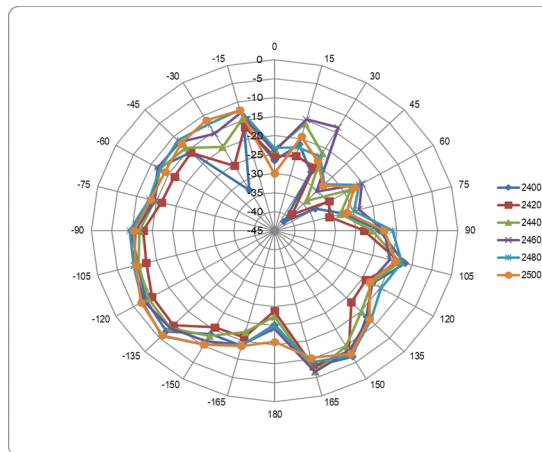
No	Frequency	Peak Value		Minimum Value		Avg. Gain	Efficiency
	[MHz]	Value[dBi]	Degree	Value[dBi]	Degree	[dBi]	[%]
1	2400	2.410829	165 / 30	-22.114546	60 / 180	-6.109392	24.49406
2	2420	2.949981	120 / 270	-24.053371	15 / 150	-5.089725	30.976151
3	2440	2.830486	165 / 30	-22.818535	0 / 315	-5.568908	27.740173
4	2460	2.825823	165 / 30	-27.316465	0 / 315	-5.877928	25.834923
5	2480	2.769723	165 / 30	-26.750609	0 / 240	-6.526015	22.253507
6	2500	2.919788	165 / 30	-27.608563	0 / 135	-6.275526	23.574767

(2) Radiation Pattern (2D)

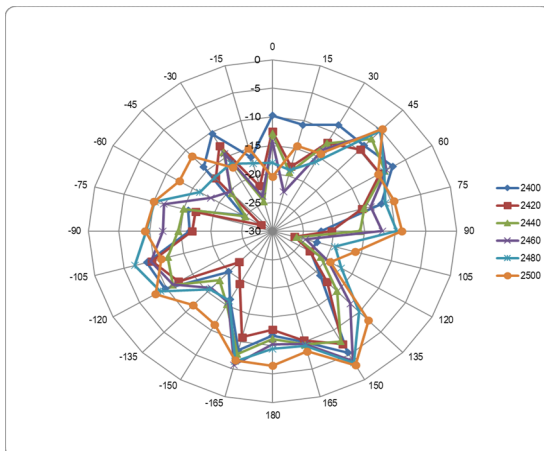
-.H Plane



-.E1 Plane

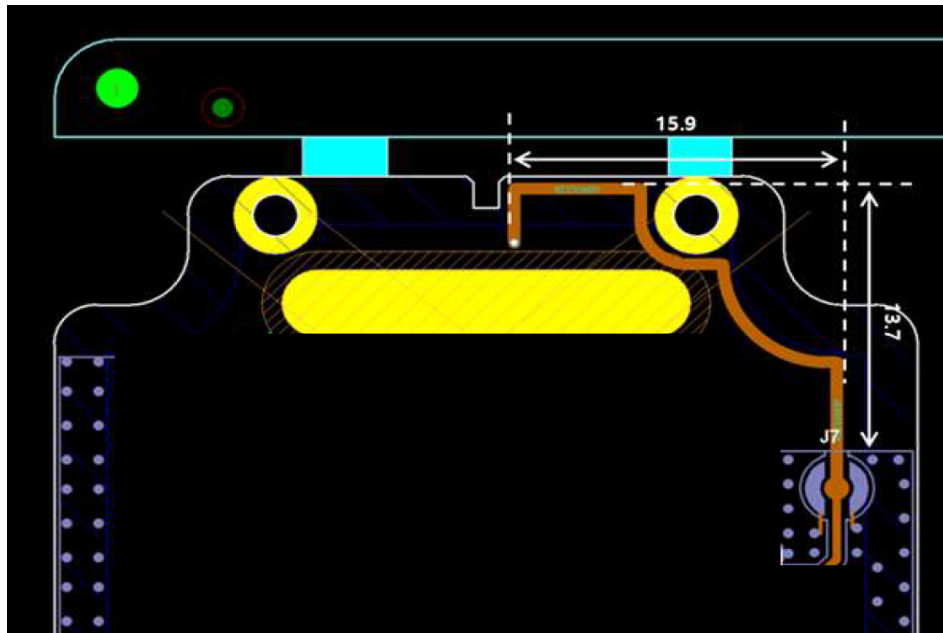


-.E2 Plane



3. Antennan Drawings & Photographs

(1) Antenna Drawings



(2) Antenna Photographs

