

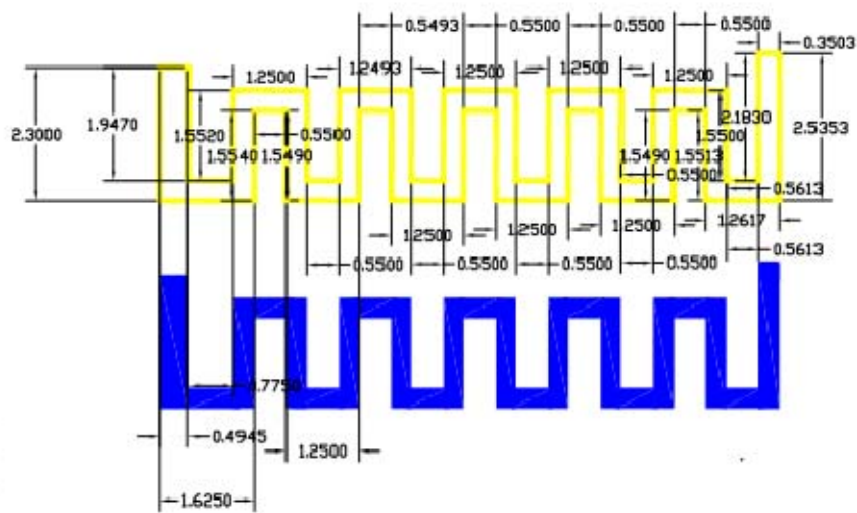
Antenna performance test specification

Applications

※Bluetooth Home RF

※ISM band 2.4GHz applications

.Dimensions



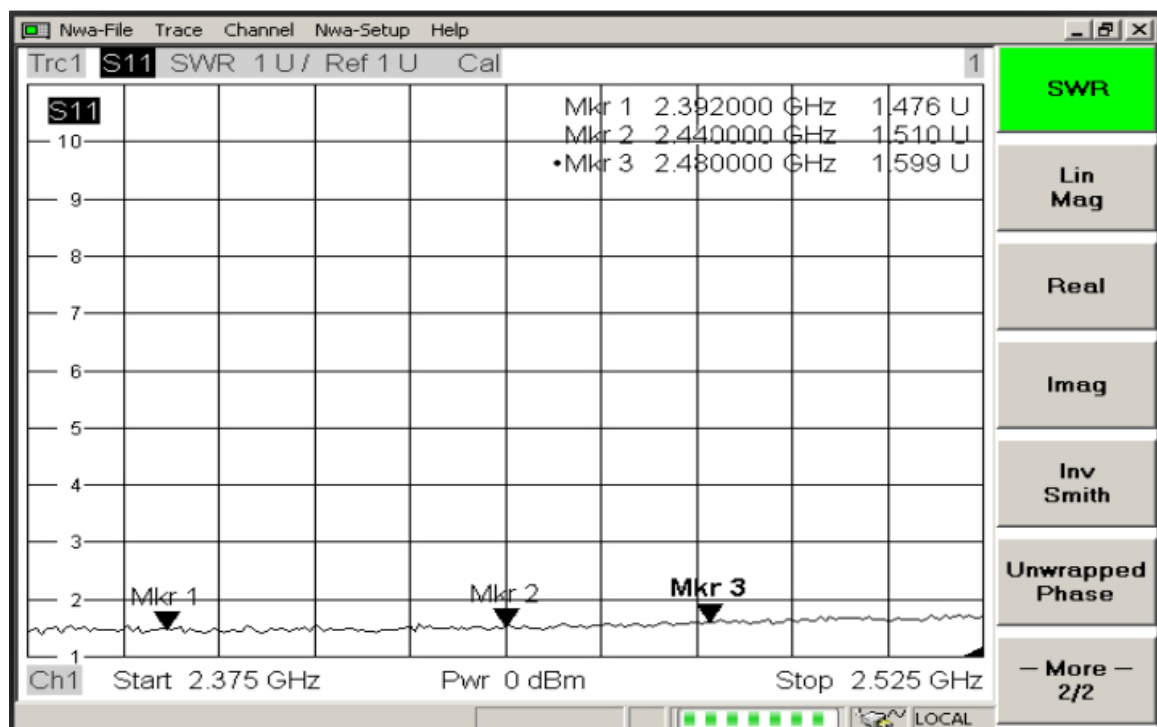
Specifications

number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480)MHz
3	Gain	0dBi
4	VSWR	≥ 2
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 Ω
8	Modulation mode	GFSK

Instrument test, software simulation parameters

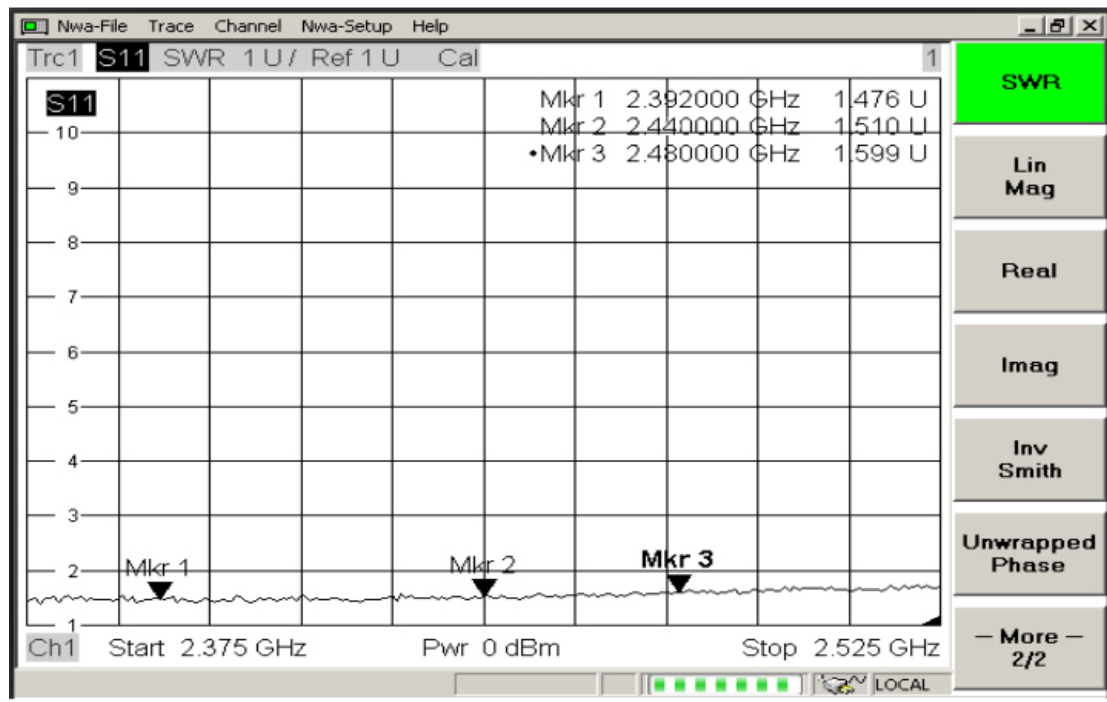
VSWR

Mkr1: 2392MHz 1.47 Mkr2: 2440MHz 1.51 Mkr3: 2480 MHz 1.59



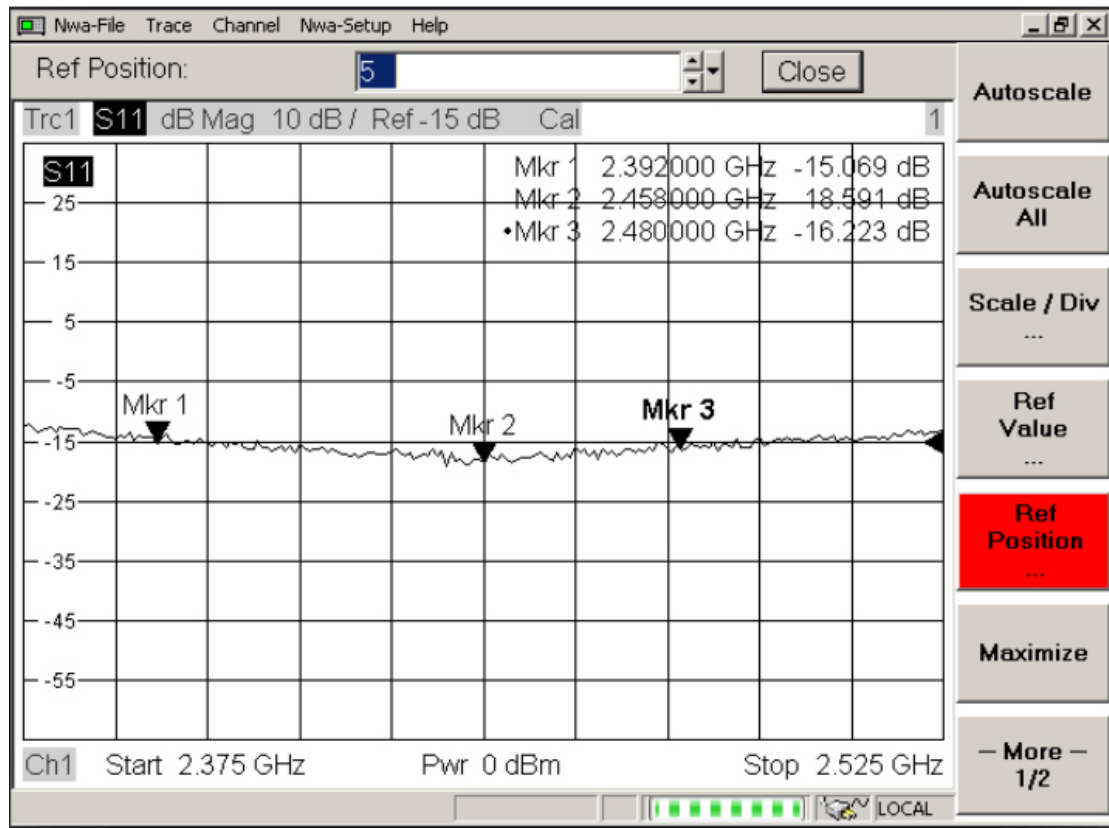
Smith Char

Mkr1: 2392MHz 73.4 Mkr2: 2440MHz 62.7 Mkr3: 2480MHz 66.8



Return Loss

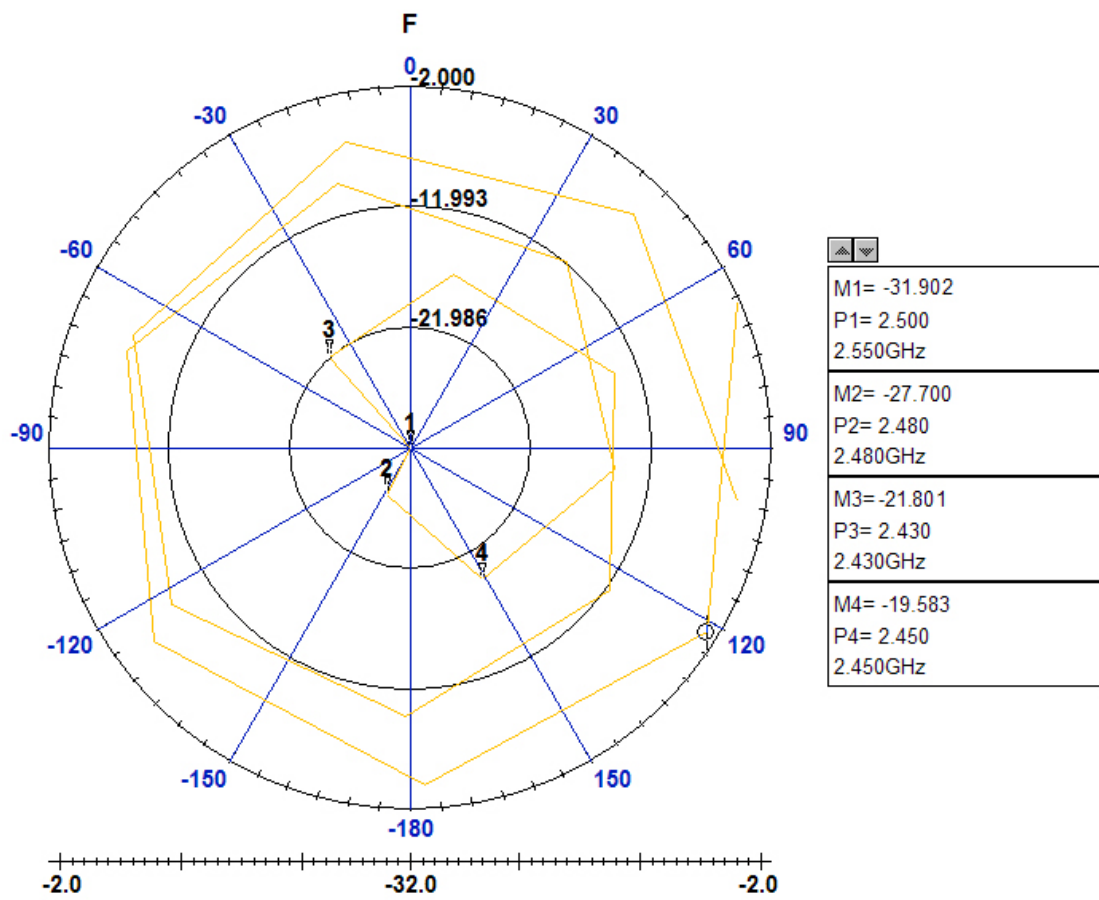
Mkr1: 2392MHz -15 Mkr2: 2458MHz -18 Mkr3: 2480 MHz -16



Return Loss simulation

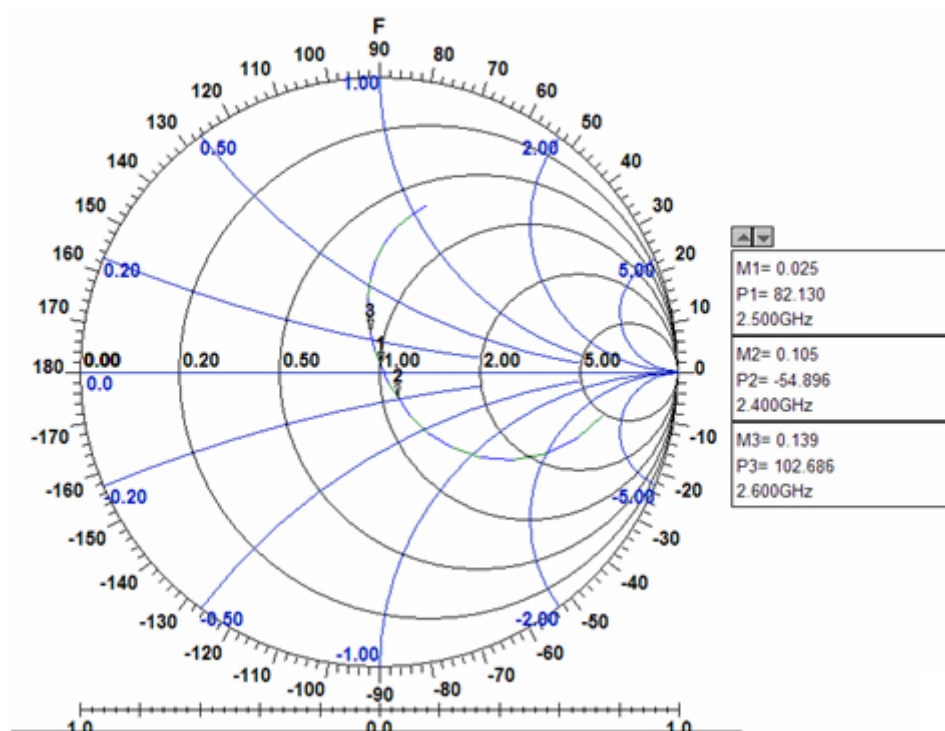
Mkr1: 2430MHz -21.80 Mkr2: 2450MHz -19.58 Mkr3: 2480MHz

-27.70 Mkr4: 2550MHz -31.90



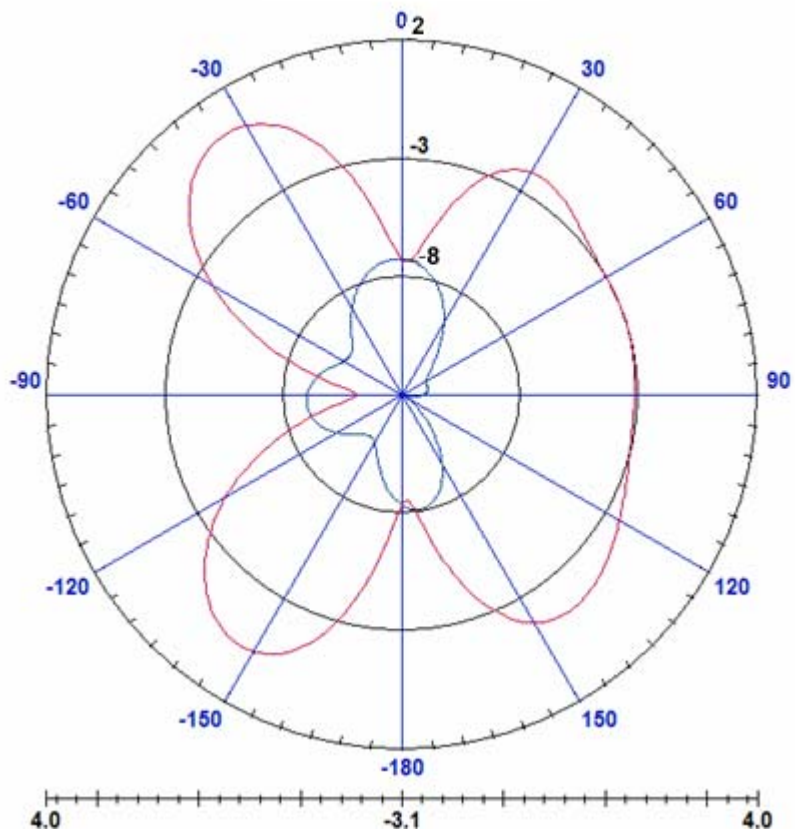
hase simulation

Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.13 Mkr3:
2600MHz -102.68



Radiation Patterns

XY-plane



Radiation field pattern

