

ANTENNA SPECIFICATION

V1.0

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PRODUCT NAME: PCB Antenna

CUSTOMER P /N: ANT1

Contents

一、-----Specification

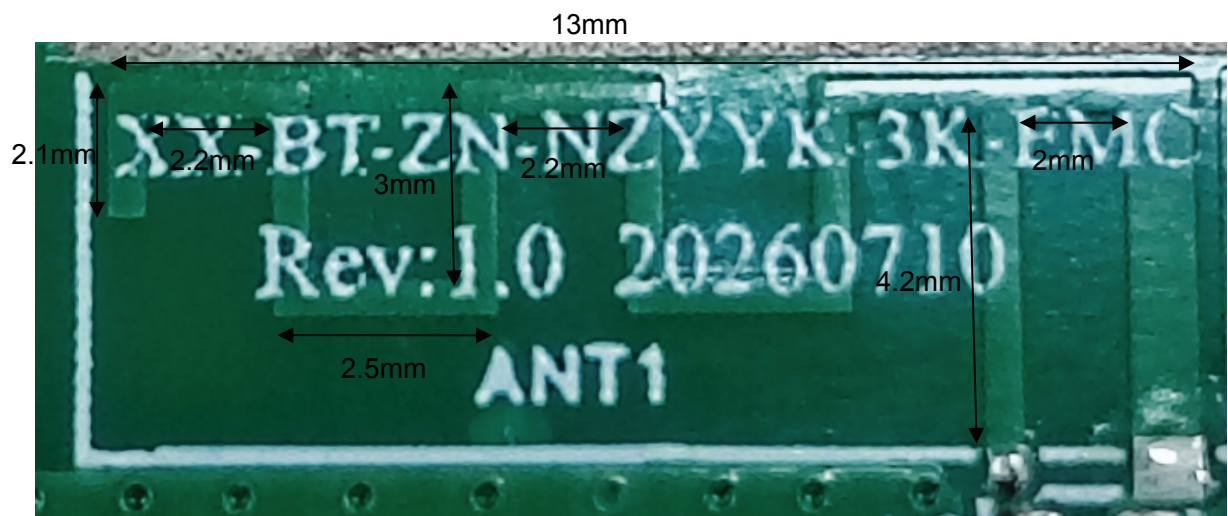
二、-----Size drawing

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一、 Specification

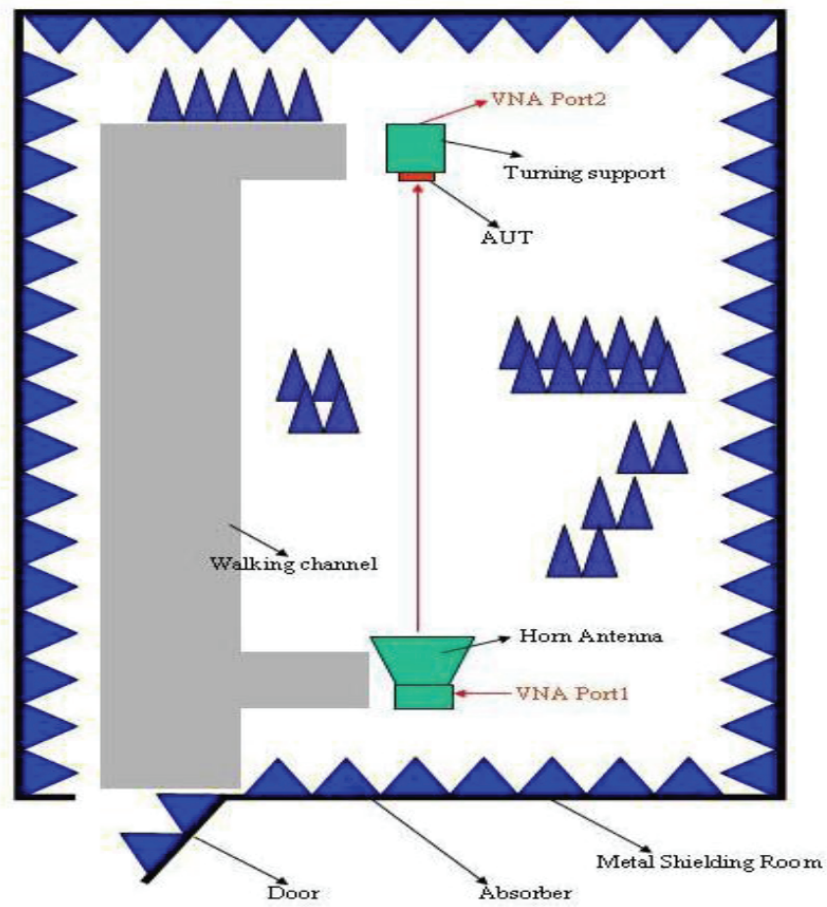
主要技术参数		Main technical parameter	
频率范围(MHz)	2400-2500	Frequency Range(MHz)	2400-2500
阻抗(ohm)	50	Impedance(ohm)	50
增益(dBi)	1.37	Gain(dBi)	1.37
极性	水平和垂直	Polarization	Horizontal and Vertical
方向性	全向性	Azimuth Beam Pattern	Omni-directional
天线类型	PCB	Antenna plate	PCB
物理性能		Physical Properties	
天线材料	FR4	Antenna cover	FR4
工作温度	-10--+80	Operating Temp	-10-- +80
保存温度	+10--+20	Storage Temp	+10--+20

二、Size drawing

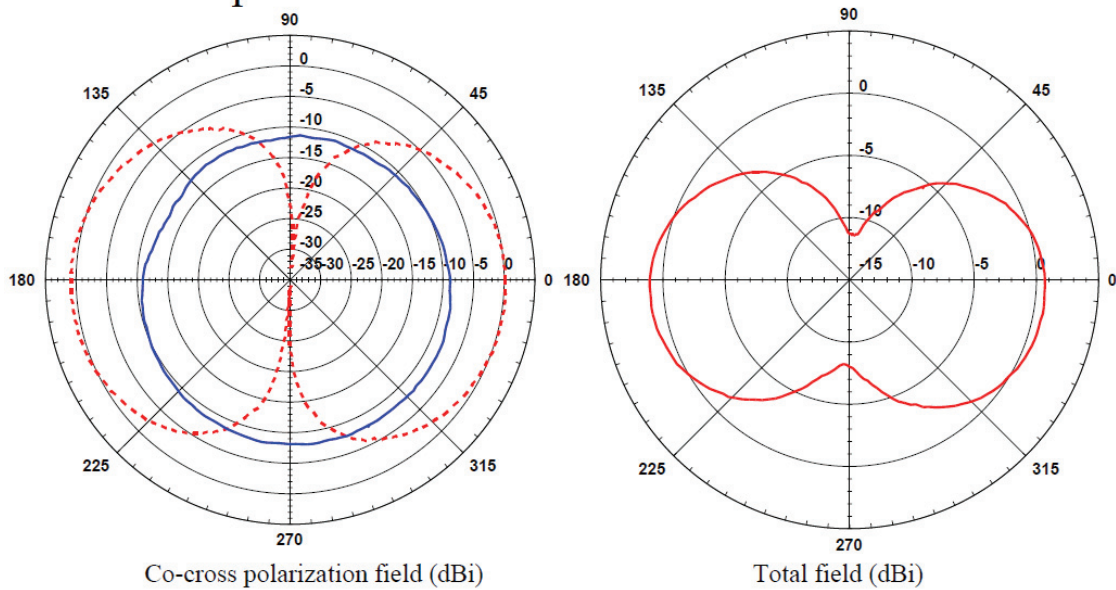


三、Test Report

The Environment of Antenna Radiation Patten

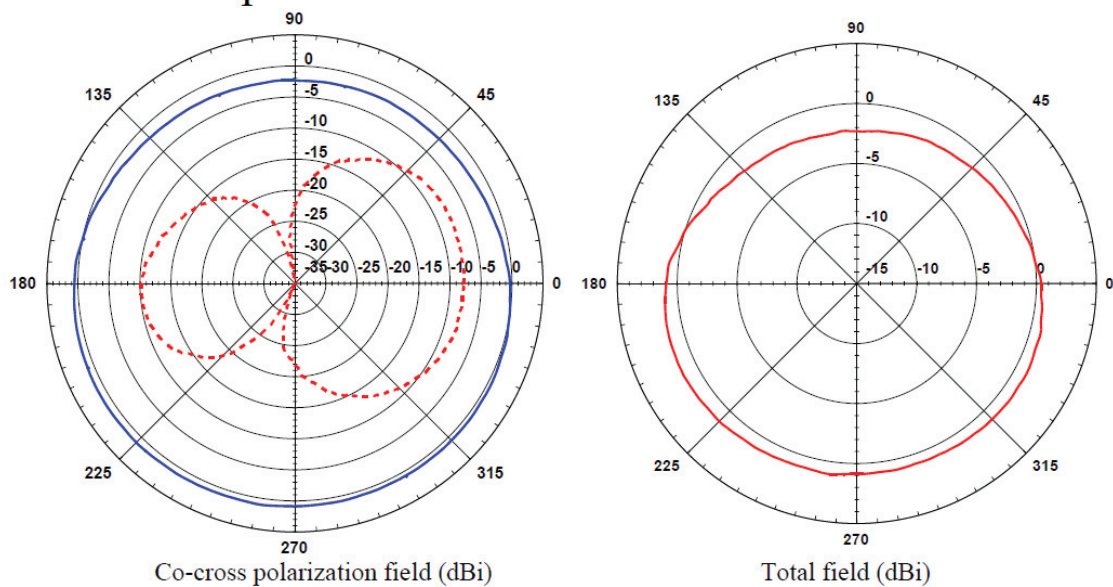


Radiation pattern: Antenna 1. XZ Plane at $f = 2.402\text{GHz}$



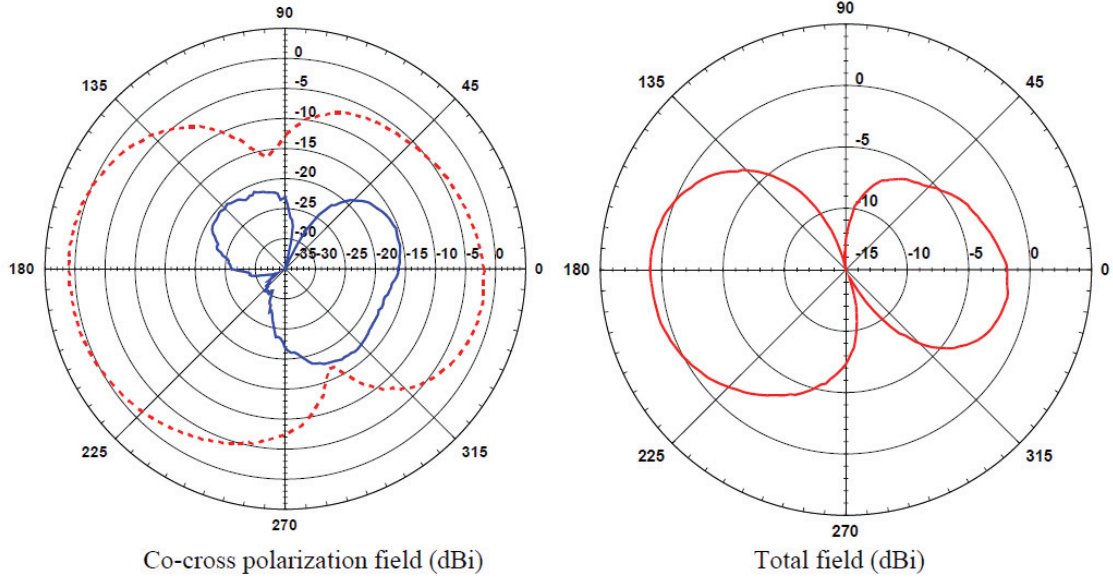
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.402\text{GHz}$



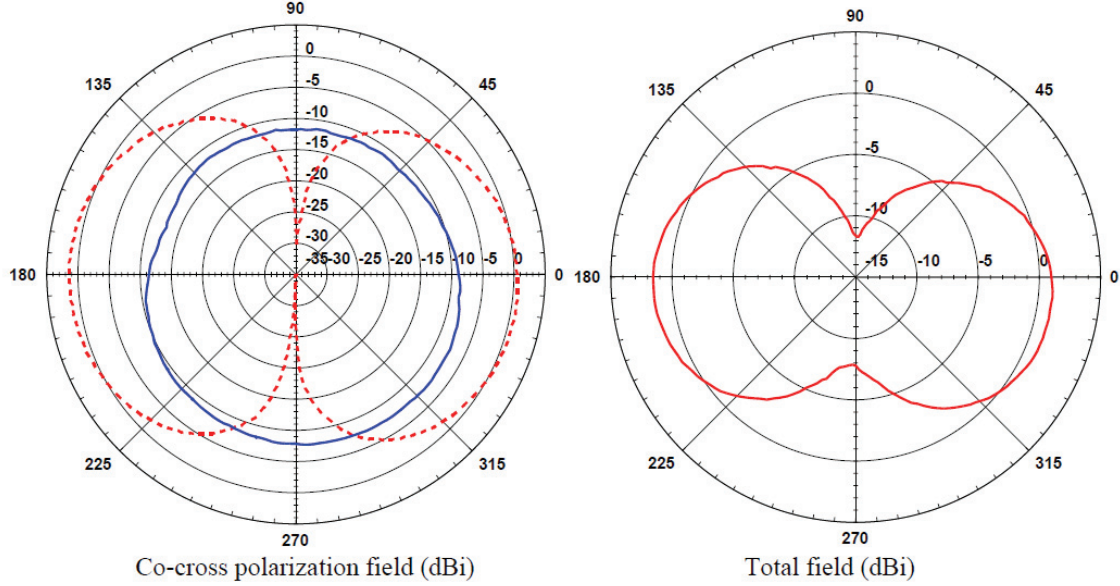
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.402\text{GHz}$



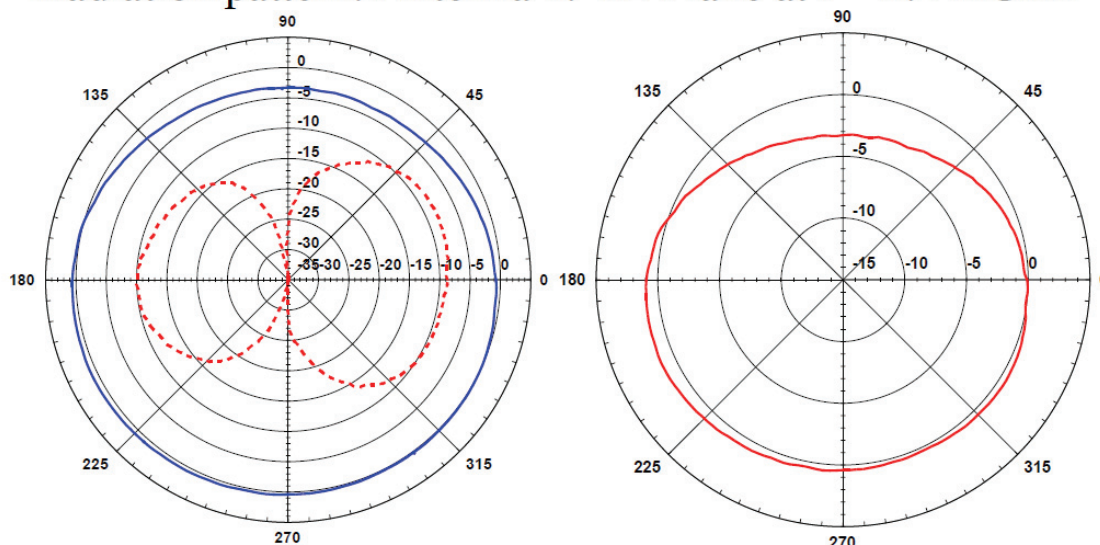
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at $f = 2.441\text{GHz}$



Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.441\text{GHz}$

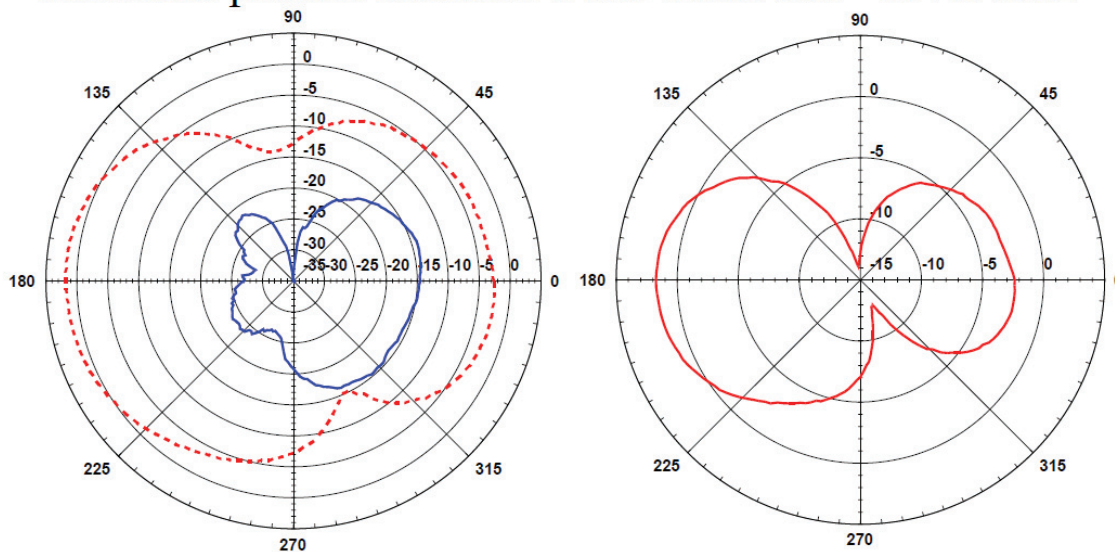


Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.441\text{GHz}$

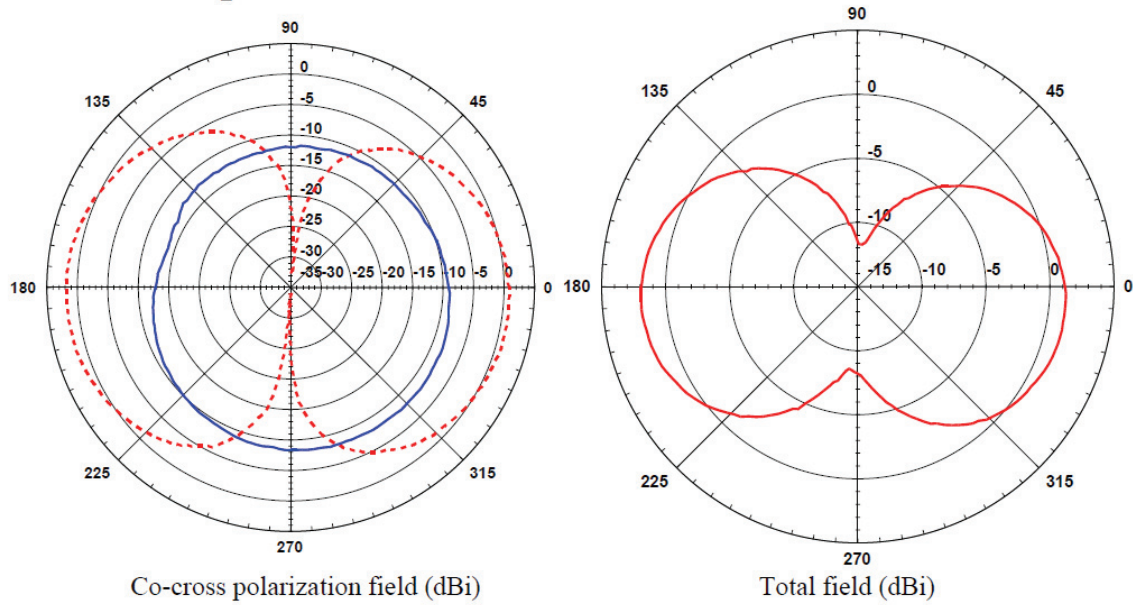


Co-cross polarization field (dBi)

Total field (dBi)

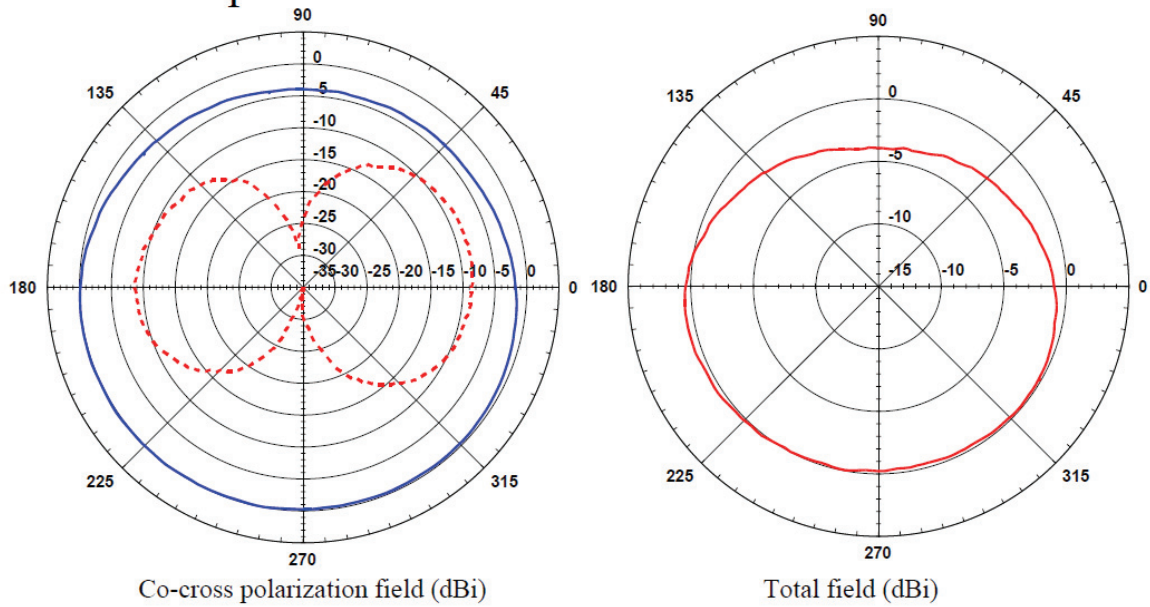
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at $f = 2.480\text{GHz}$



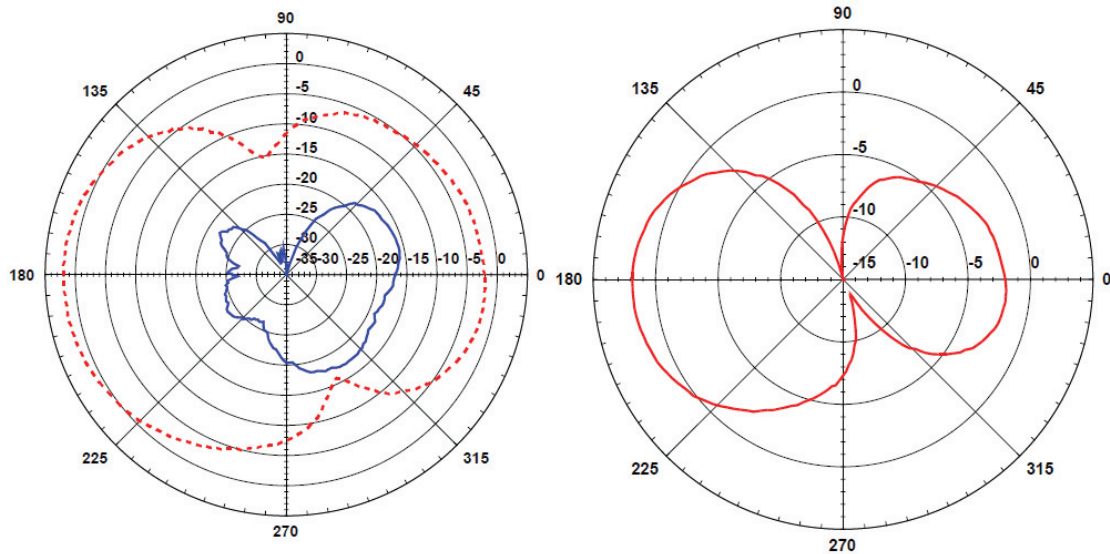
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.480\text{GHz}$



Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.480\text{GHz}$

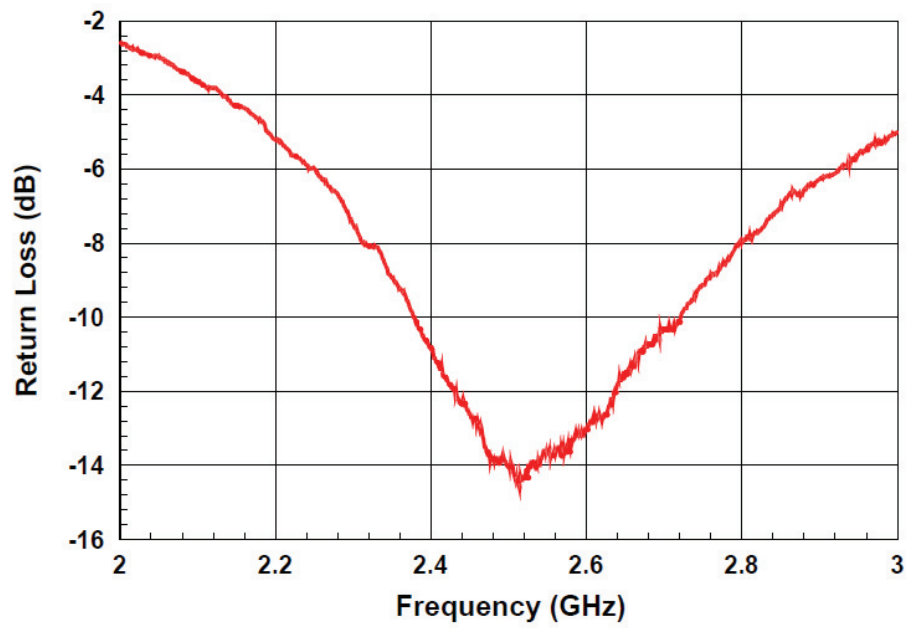


Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Return Loss: Antenna 1



BW(-10dB) 🕒 13.48%

Measurements summary

	Frequency (GHz)	Plane	Return Loss (dB)	Polarization	Gain max. (dBi)
Antenna 1					
	2.402	XZ	-10.90	Vertical	-7.8
	2.402	XZ	-10.90	Horizontal	0.786
	2.402	YZ	-10.90	Vertical	0.81
	2.402	YZ	-10.90	Horizontal	-7.75
	2.402	XY	-10.90	Vertical	-15.4
	2.402	XY	-10.90	Horizontal	0.58
	2.441	XZ	-12.20	Vertical	-7.36
	2.441	XZ	-12.20	Horizontal	1.02
	2.441	YZ	-12.20	Vertical	0.981
	2.441	YZ	-12.20	Horizontal	-8.23
	2.441	XY	-12.20	Vertical	-14.1
	2.441	XY	-12.20	Horizontal	1.24
	2.48	XZ	-13.80	Vertical	-7.95
	2.48	XZ	-13.80	Horizontal	1.31
	2.48	YZ	-13.80	Vertical	0.204
	2.48	YZ	-13.80	Horizontal	-8.38
	2.48	XY	-13.80	Vertical	-15.8
	2.48	XY	-13.80	Horizontal	1.37