



深圳中科为检测有限公司

Shenzhen CST Testing Co., Ltd.

USB 发射接收器天线测试报告

2.4GHz USB Dongle Antenna

Test Report

客 户 名 称：深圳市大开实业发展有限公司

CUSTOMER NAME: Shenzhen Da Kai Industries Limited

产 品 名 称: 2.4GHz , USB 发射接收器

PRODUCT NAME: 2.4GHz , USB Dongle

客 户 料 号: DK V23

CUSTOMER P/N: DK V23

制造商: 深圳市大开实业发展有限公司

Manufacturer: Shenzhen Da Kai Industries Limited



Frank Cheng
Laboratory Manager

Shenzhen CST Testing Co., Ltd

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1 . Product Specification

主要技术指标		Main technical specifications	
频率范围 (MHz)	2.4~2.5GHz	Frequency Range (MHz)	2.4~2.5GHz
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	-2.22112dBi	Peak Gain(dBi)	-2.22112dBi
输出电压 驻波比	≤ 2.40	VSWR	≤ 2.40
最大功率	-	Admitted Power	-
极化方式	垂直极化	Polarization	Linear,Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	-	Connector Type	-



2 .Test Equipment & Conditions

- | | |
|-------------------------------------|---------------------|
| 1. Network Analyzers | Agilent 8753D/5071C |
| 2. 2.HSPA and LTE protocol test set | R&S CMW500 -PT |
| 3. Communications Test Set | Agilent 8960 |
| 4. 3D Chamber Test System | |

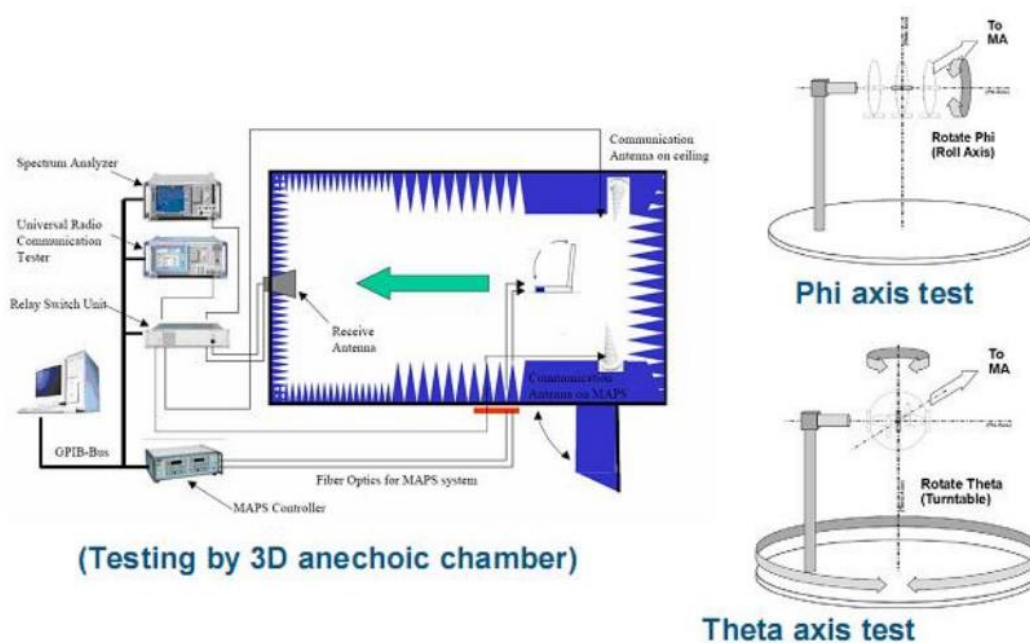


Chart 1 Test topology

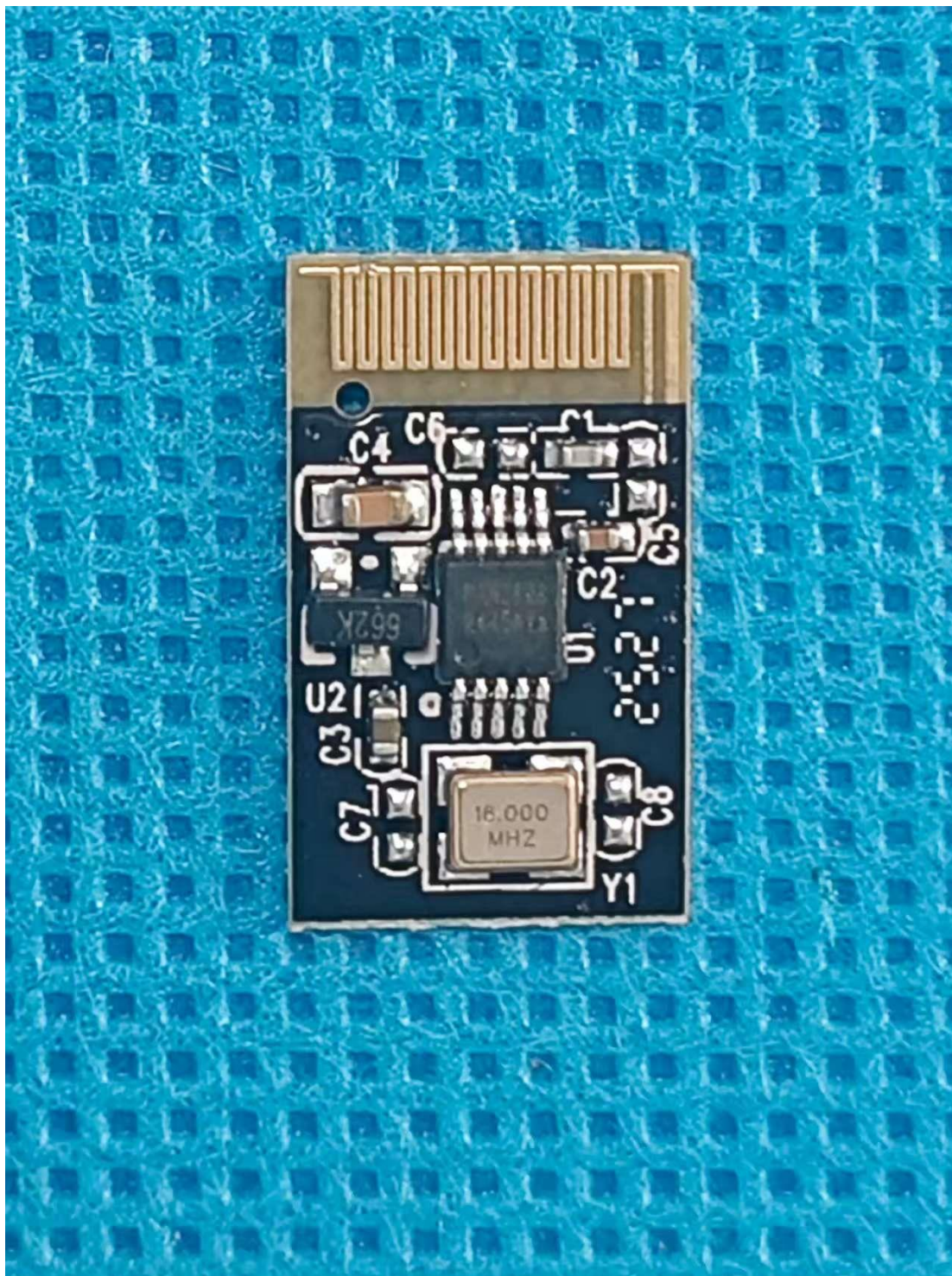


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3 . Assemble type

Antenna Length: 9.2mm



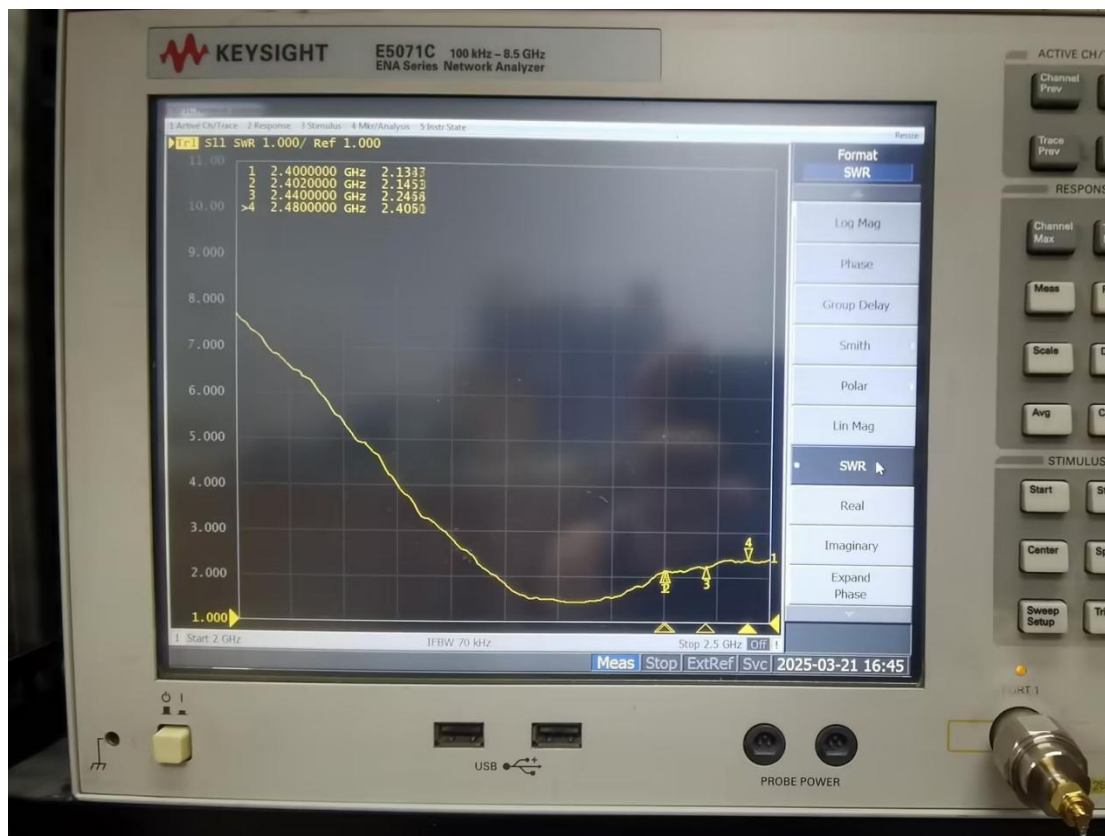


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4.Test Report

4.1 Voltage Standing Wave Ratio(VSWR)



4.2 Efficient and gain.

Frequency	Effic	Percen	Gain	Phi Max	The Max
2400	-8.43411	14.34131%	-3.53829	0	45
2420	-8.12578	15.25378%	-3.10823	22.5	44
2440	-7.82583	16.49746%	-2.59206	22.5	47
2460	-7.58634	17.35862%	-2.35486	22.5	43
2480	-7.49135	17.81824%	-2.22112	22.5	44
2500	-7.35624	18.26547%	-2.30264	22.5	46

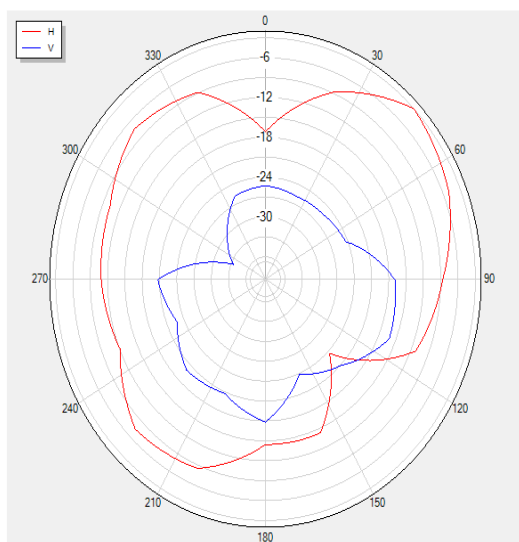


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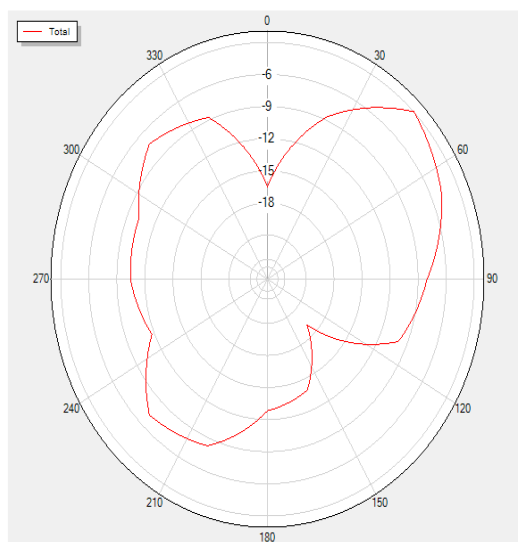
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4.3 Radiation pattern.

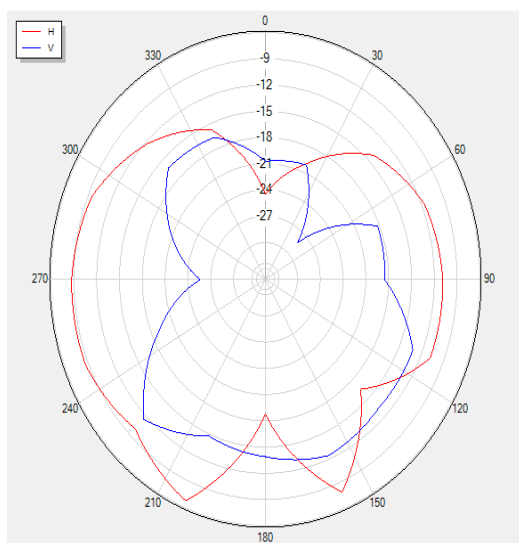
2402P0 Polar



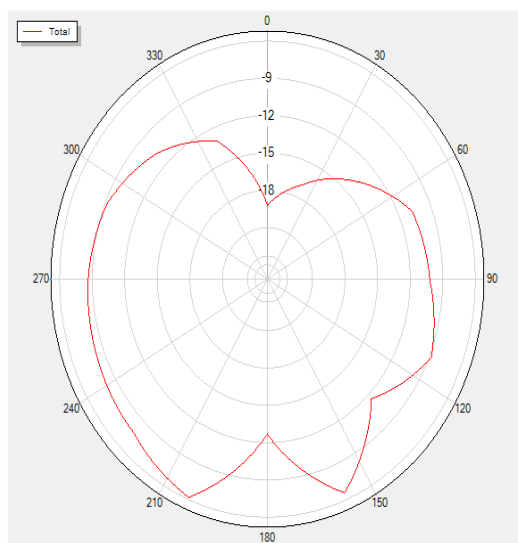
2402P0 Total



2402P90 Polar



2402P90 Total

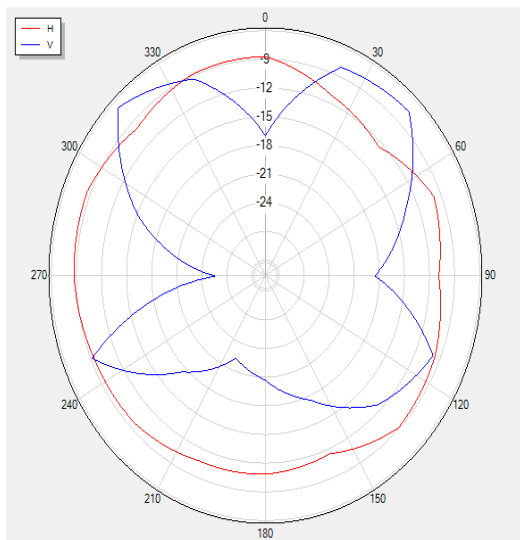




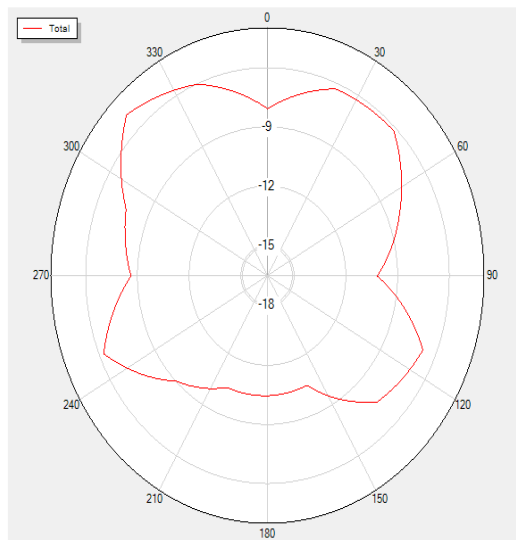
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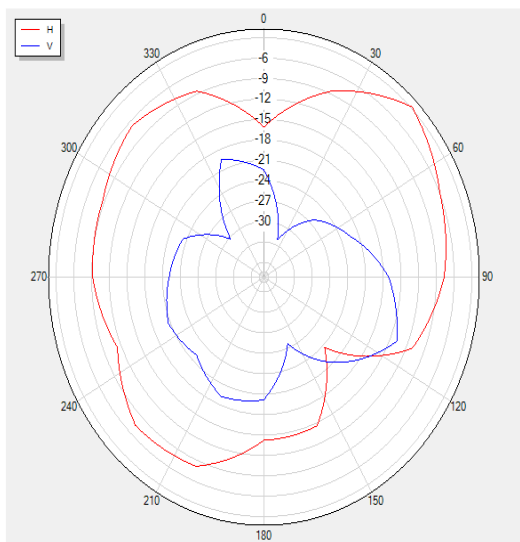
2402T90 Polar



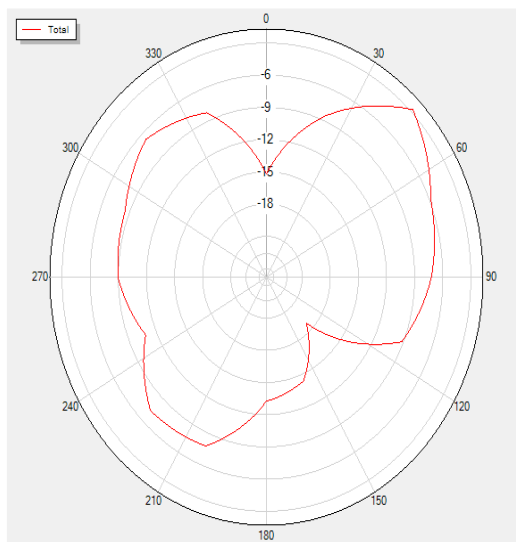
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2440P0 Polar



2440P0 Total

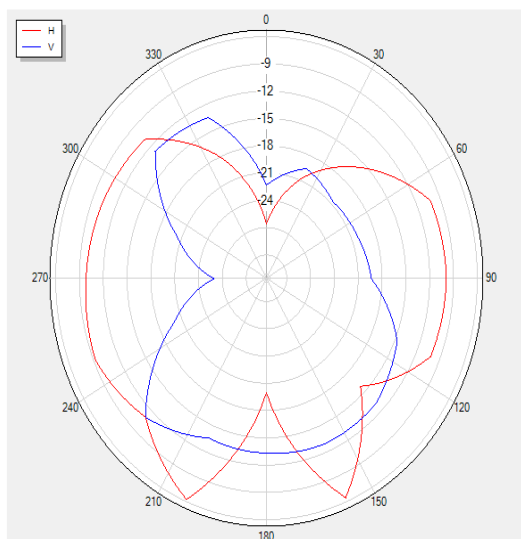




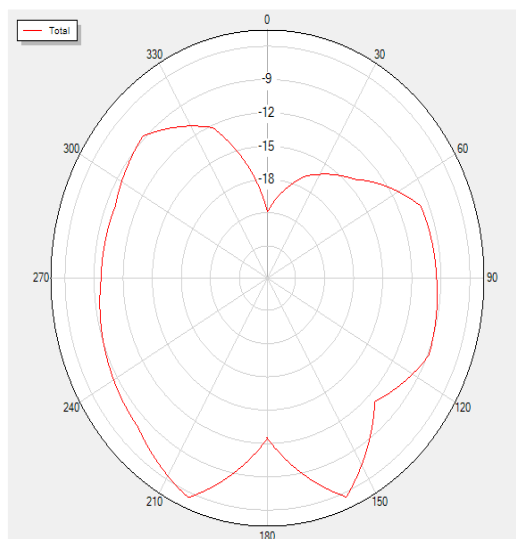
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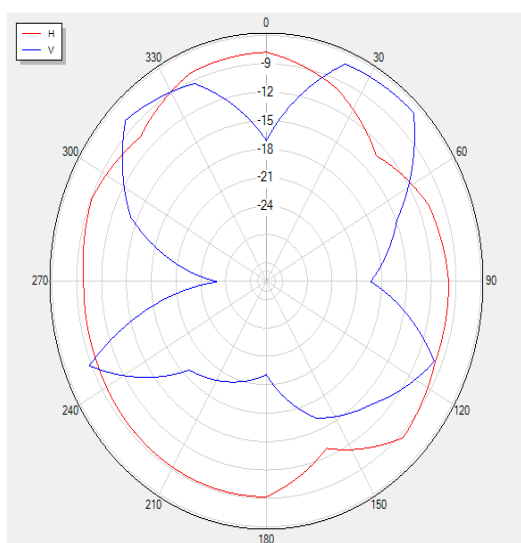
2440P90 Polar



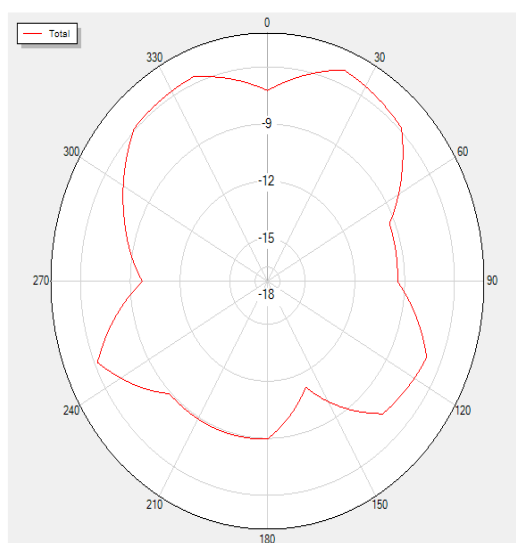
2440P90 Total



2440T90 Polar



2440T90 Total

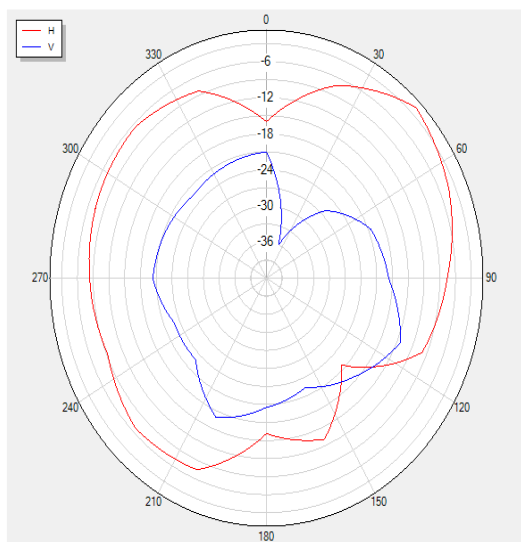




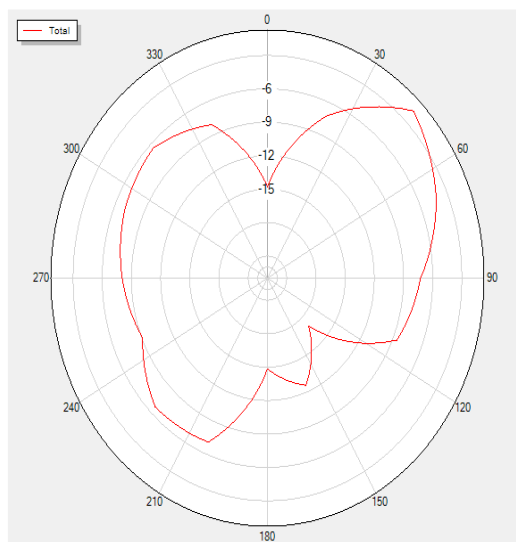
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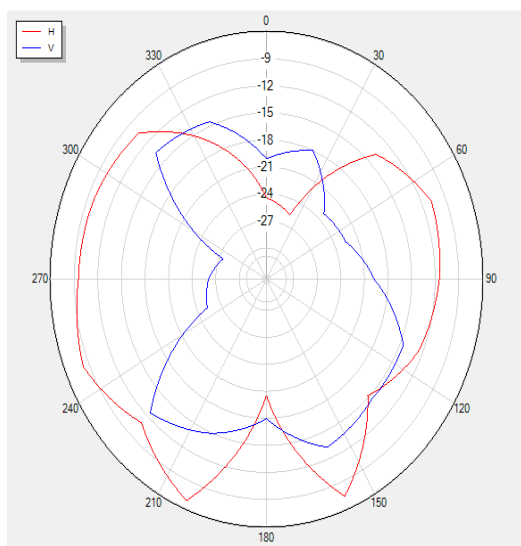
2480P0 Polar



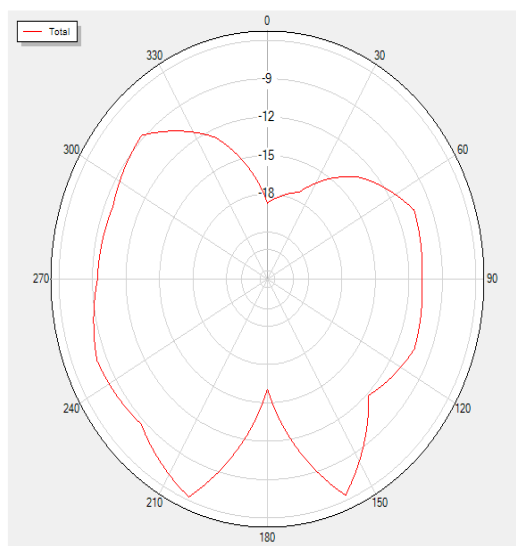
2480P0 Total



2480P90 Polar



2480P90 Total

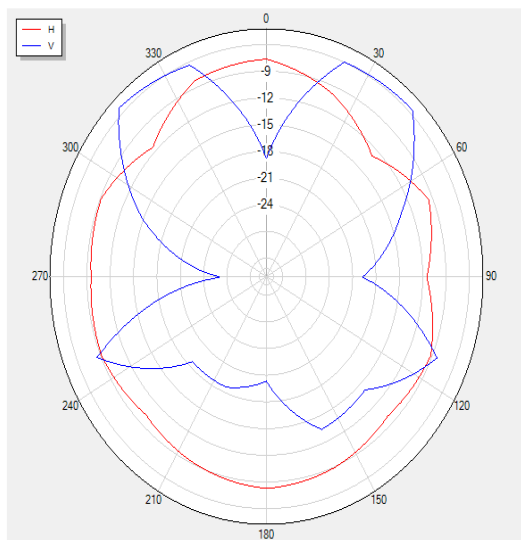




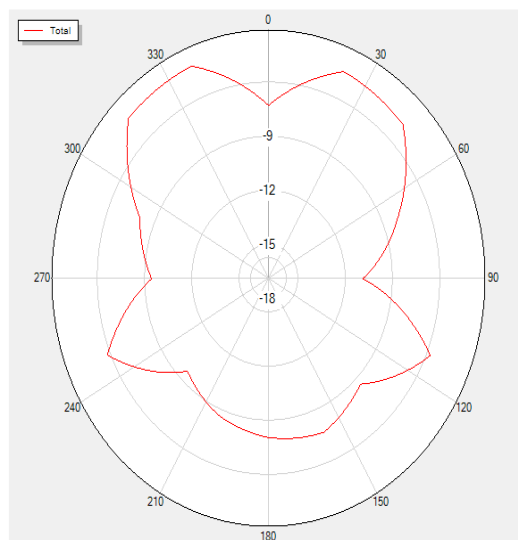
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2480T90 Polar



2480T90 Total



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