

Testing Report

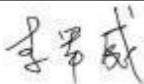
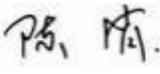
Customer Name: SHENZHEN SHIXINZHONGXIN TECHNOLOGY.CO.,LTD

Product Name: BT Antenna

Sample Model: RSR-XZX-2T-5.8G-TX

Reference Standard: GB/T9410-2008; ANSI/IEEE Std 149-1979

Issue Date: 2024.04. 28

Engineer:		Date: 2024.04. 28
Auditor:		Date: 2024.04. 28
Approver:		Date: 2024.04. 28

1. General Information

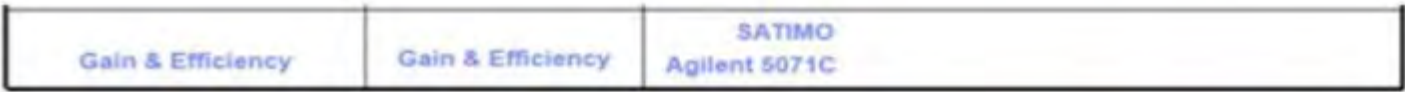
1.1 General Information of testing institutions

Name	Shenzhen Hetuo Technology Co., Ltd.
Address	Room 1202 B, Building C6, Hengfeng Industrial City, Xixiang, Baoan District, Shenzhen
Tel	18665849001
E-mail	18665849001@163.com
Equipment	Agilent 5071C

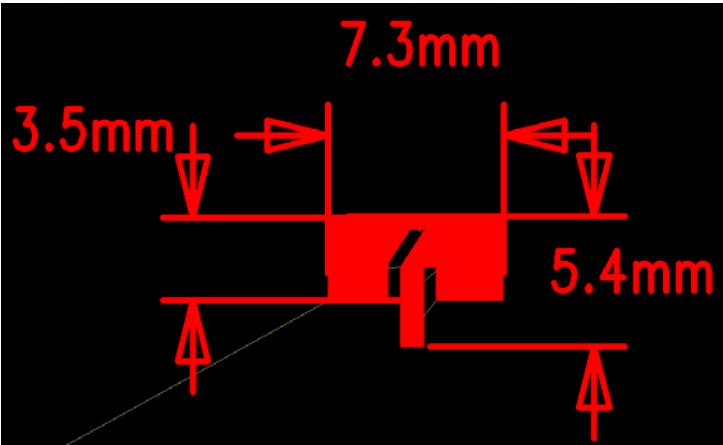
1.2 Testing principle

2. Test System

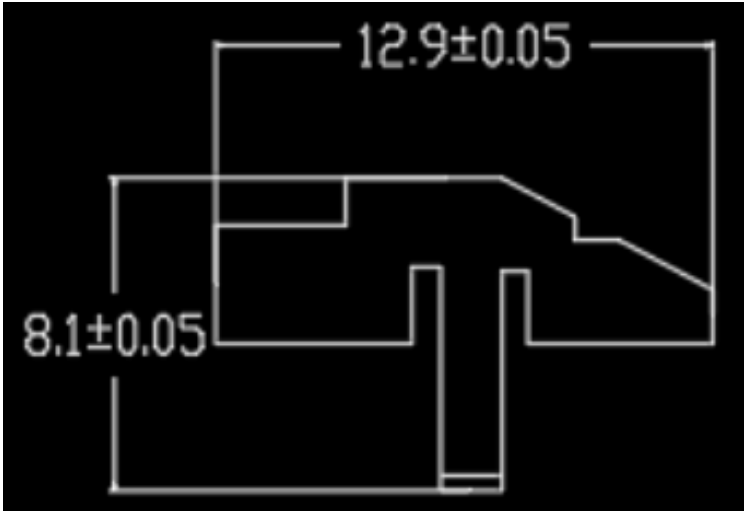
Multi-probe OTA Measurement System



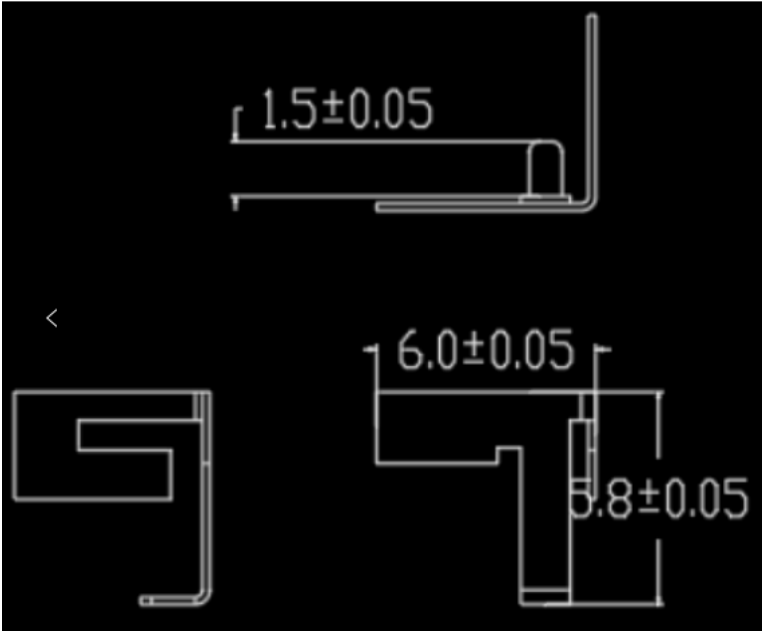
Antenna Photo & Length(mm)_ANT1: PCB antenna



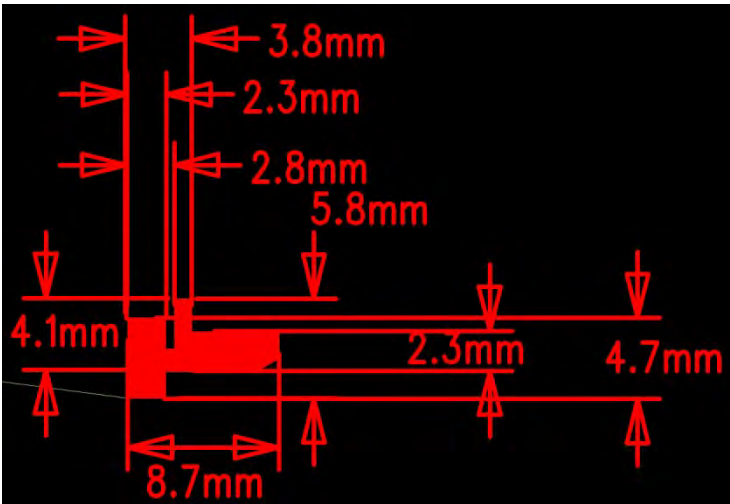
Antenna Photo & Lenght(mm)_ANT2:Stainless steel antenna



Antenna Photo & Lenght(mm)_ANT3:Stainless steel antenna



Antenna Photo & Lenght(mm)_ANT4:PCB antenna



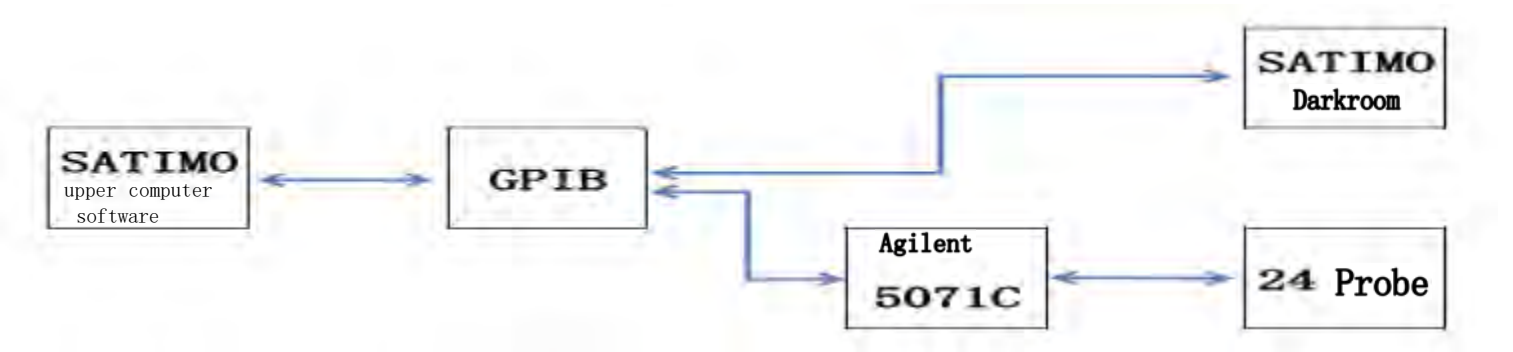
1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*3*3	NA	SATIMO	2024.03.29	2024.04.29
Network Analyzer	5071C	NA	Agilent	2024.03.29	2024.04.29

1.4 Test environment

Temperature	24 C± 1.5 C
Humidity	45%RH
Pressure	101kPa

1.5 Brief summary of Procedure



1. SATIMO turn on the Upper Computer Software, Name: VeryView99.exe, Version No.: V1.10;
2. VeryView99 via GPIB (General Purpose Interface Bus) to control the shielding room (darkroom)'s SATIMO;
3. Meanwhiel, GPIB control the Agilent 5071C to read the Antenna data by 24 Probe;
4. Agilent 5071C will analyse the data and generate the result;
5. Agilent 5071C will feedback to VeryView99 software to generate the test report.

2. Sample Information

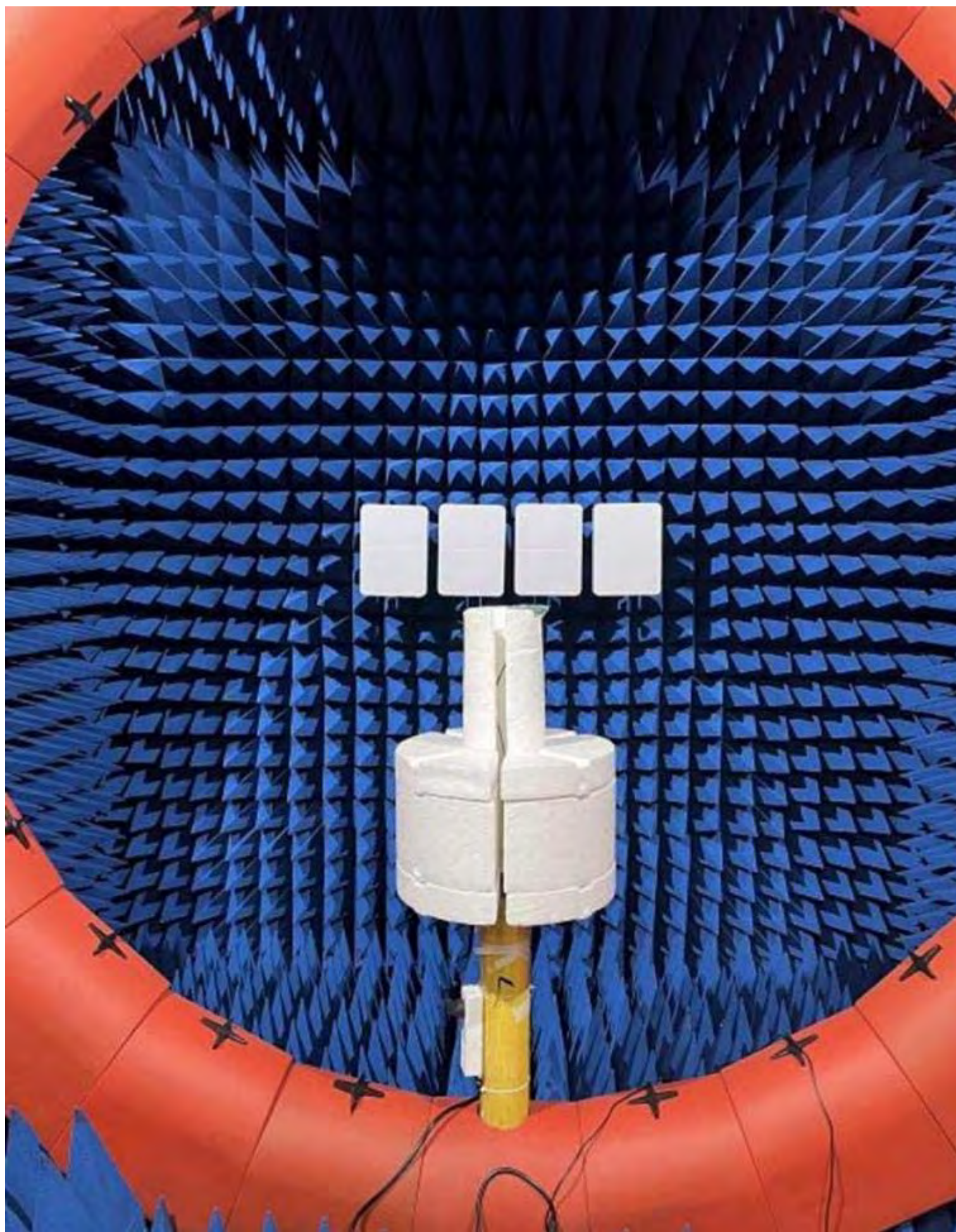
2.1 Client information

Name	SHENZHEN SHIXINZHONGXIN TECHNOLOGY .CO .,LTD
Address	A1 , Shajing Donghuan Industrial Zone , Bao 'an District , Shenzhen
Contacts	Ma Chao
Tel	18218809918
E-mail	machao@c- chip. com. cn

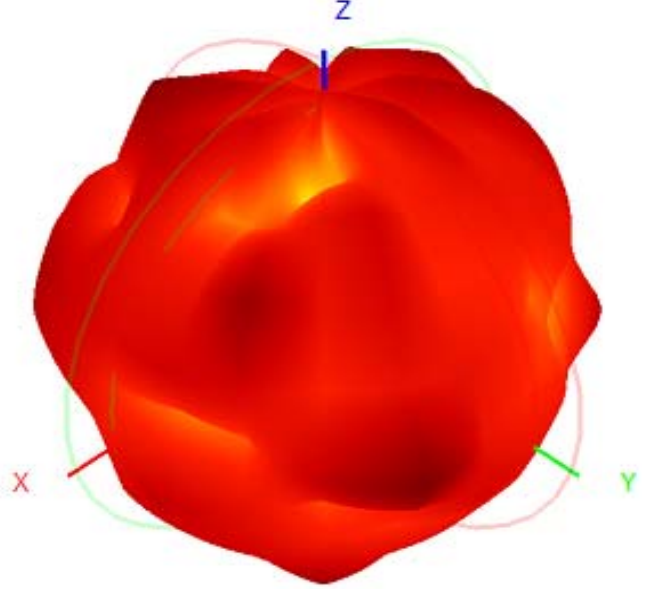
2.2 Description of EUT(S)

Product Name	5.2G/5.8G Antenna
Sample Model	RSR-XZX-2T-5.8G-TX
Antenna Size	ANT1:5.4*7.3mm
	ANT2:12.9*8.1mm
	ANT3:6.0*5.8mm
	ANT4:8.7*5.8mm
Antenna Type	PCB/ Stainless steel antenna
Serial No.	/
Test Item	Antenna Gain, Radiation pattern
Frequency Range	5155-5245MHz 5730-5848MHz
Received Date	2024.04.28
Test Date	2024.04. 28
Remark	The length of the RF cable is 50mm

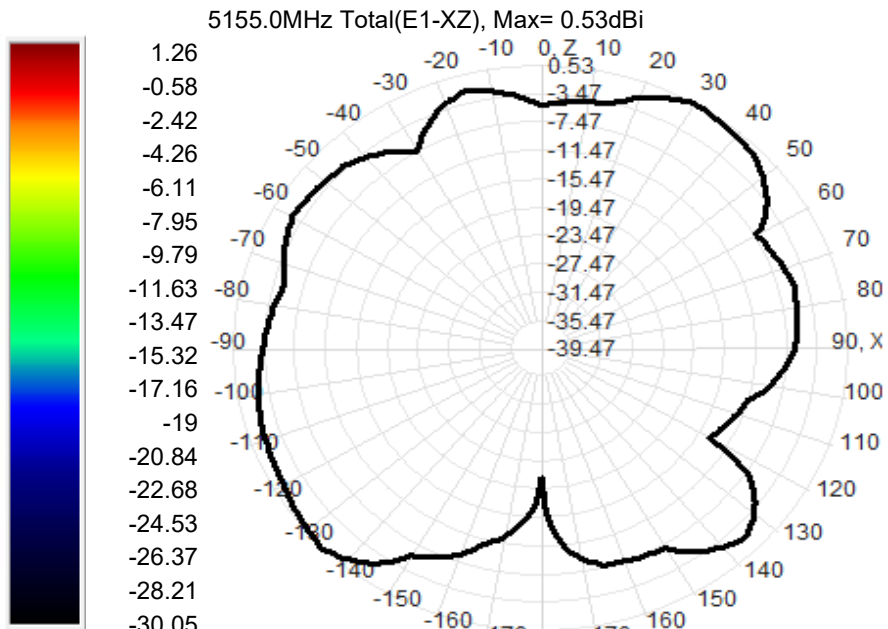
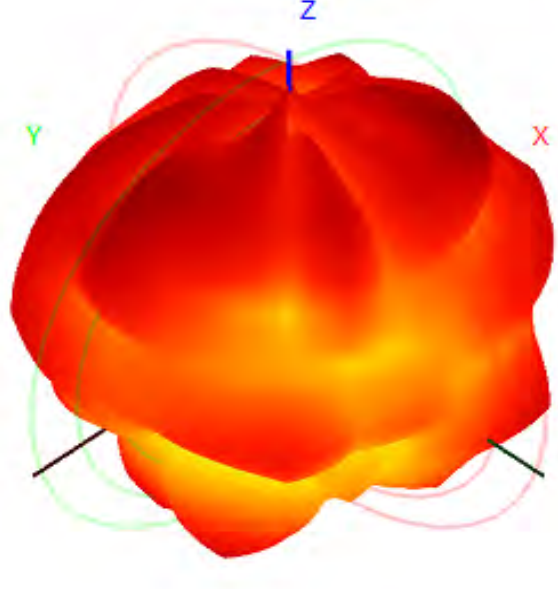
The test photos



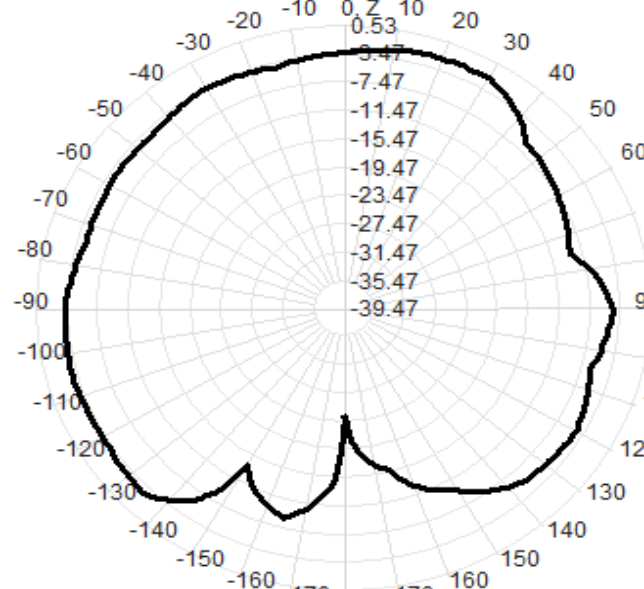
5155.0MHz H+V, Eff: 38.8%



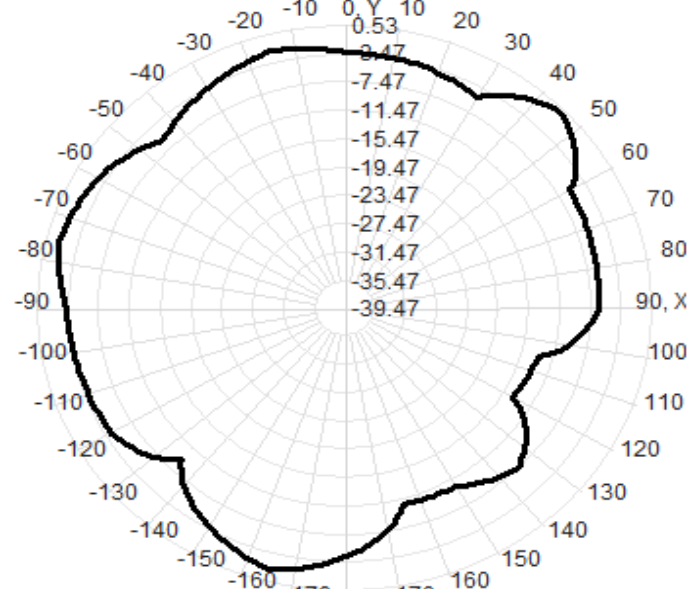
Back View



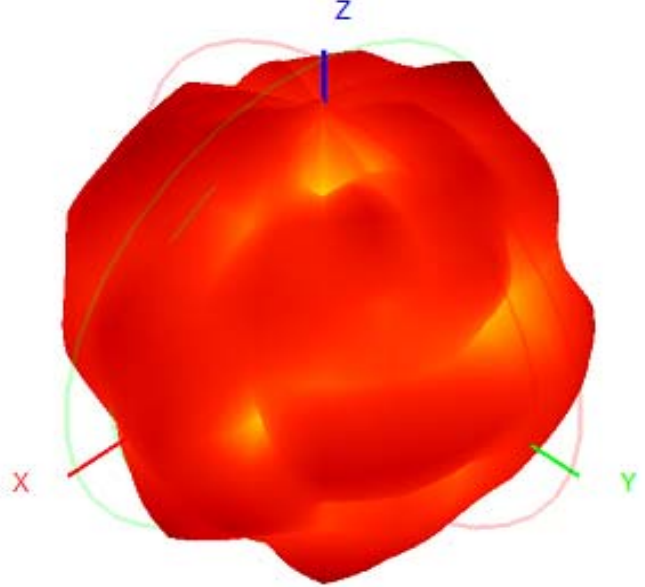
5155.0MHz Total(E2-YZ), Max= -1.91dBi



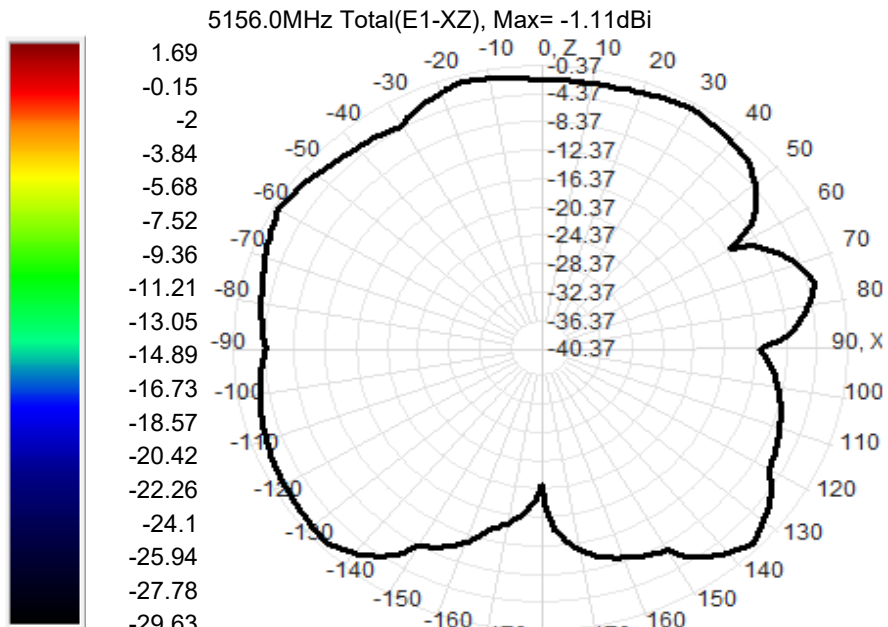
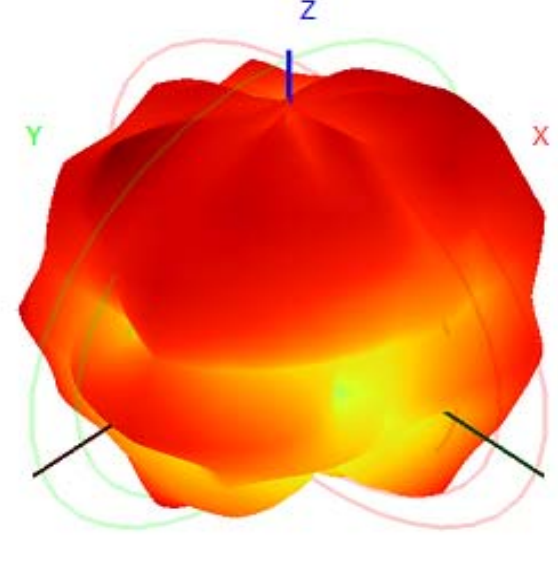
Total(H-XY), Max= -0.10dBi, CirD=14.37



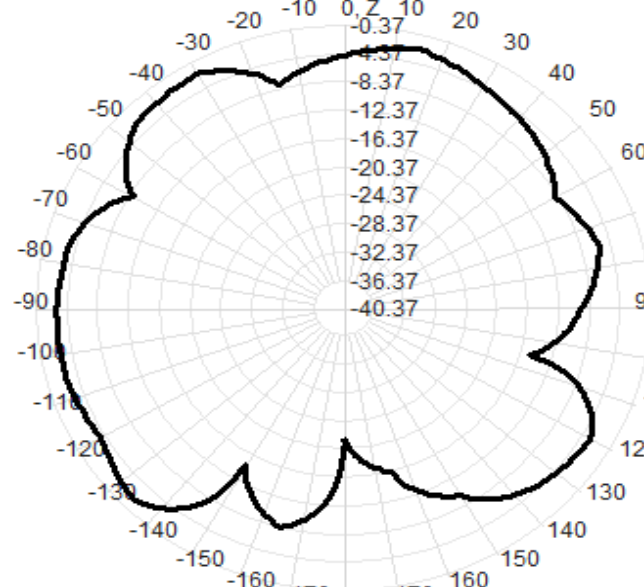
5156.0MHz H+V, Eff: 37.1%



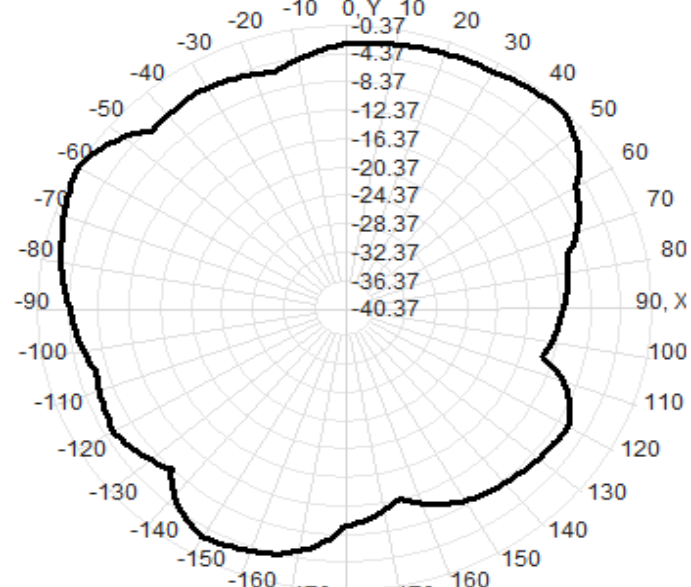
Back View



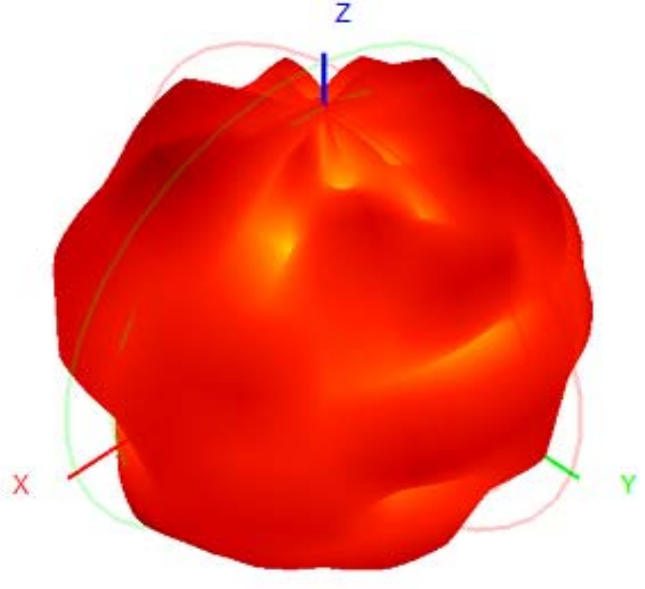
5156.0MHz Total(E2-YZ), Max= -2.06dBi



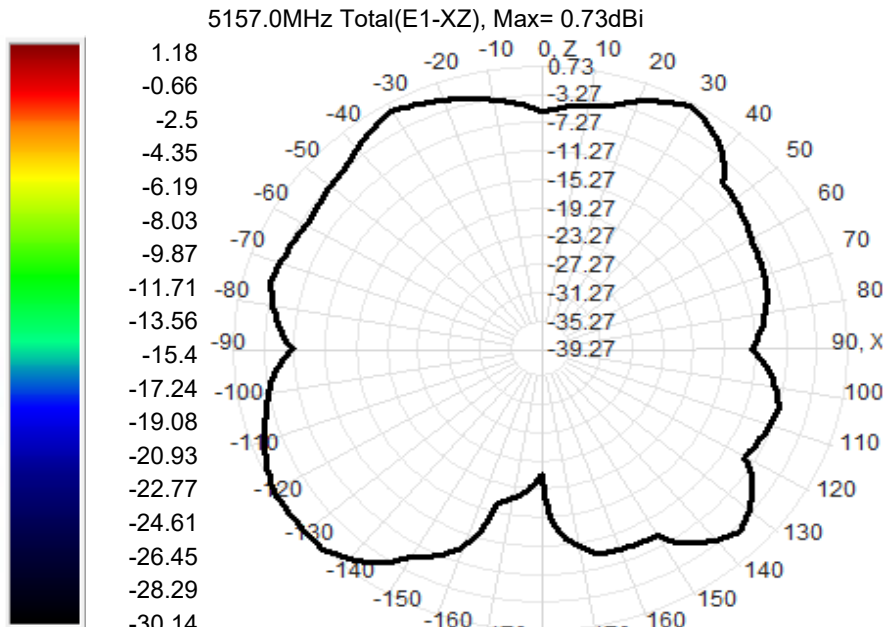
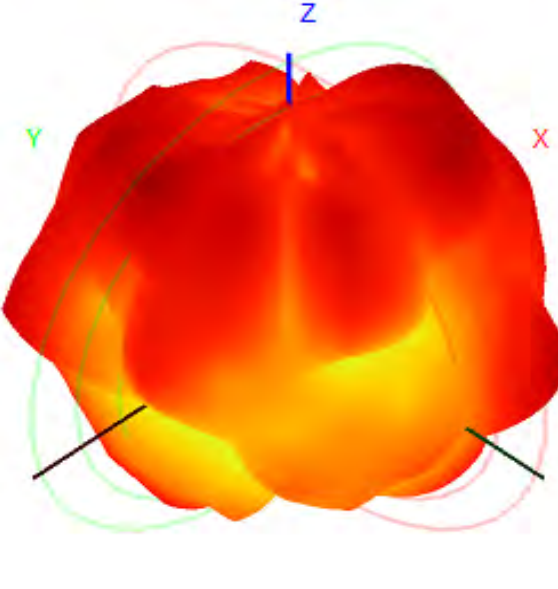
Total(H-XY), Max= -0.37dBi, CirD=13.58



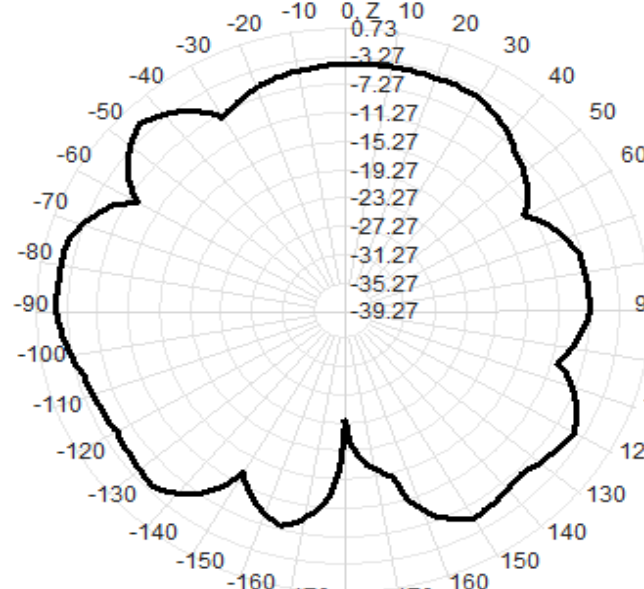
5157.0MHz H+V, Eff: 36.1%



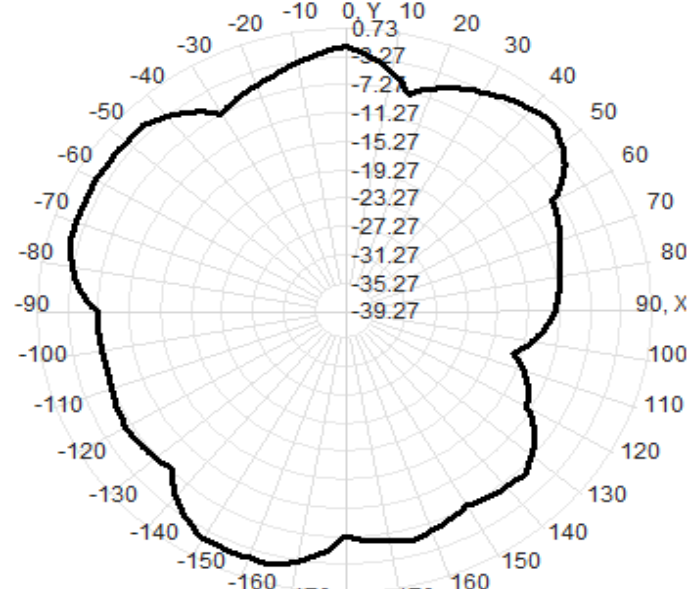
Back View



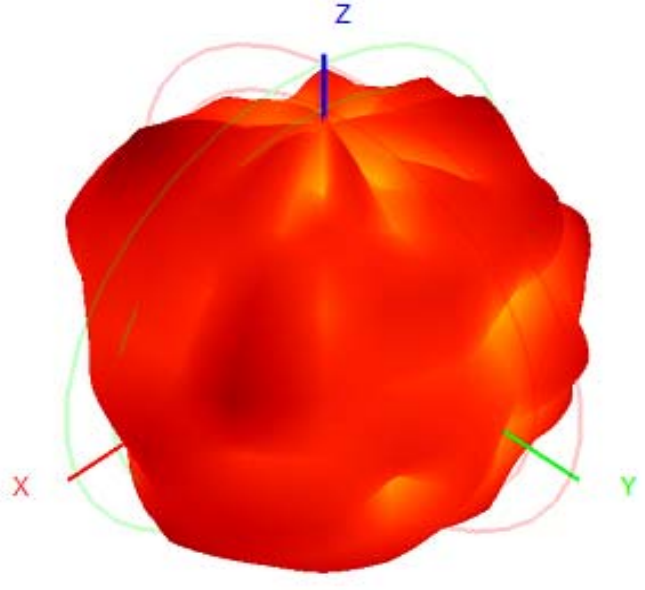
5157.0MHz Total(E2-YZ), Max= -1.73dBi



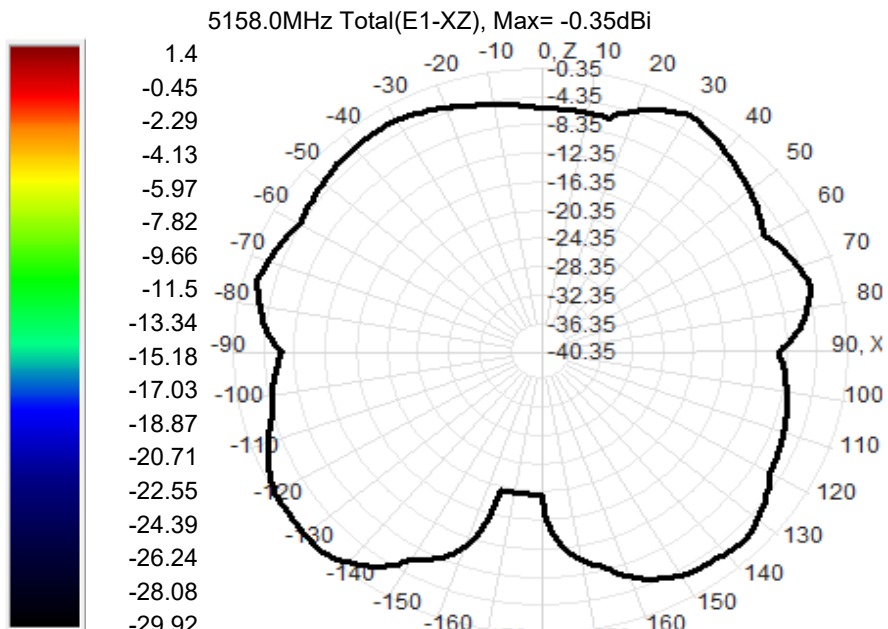
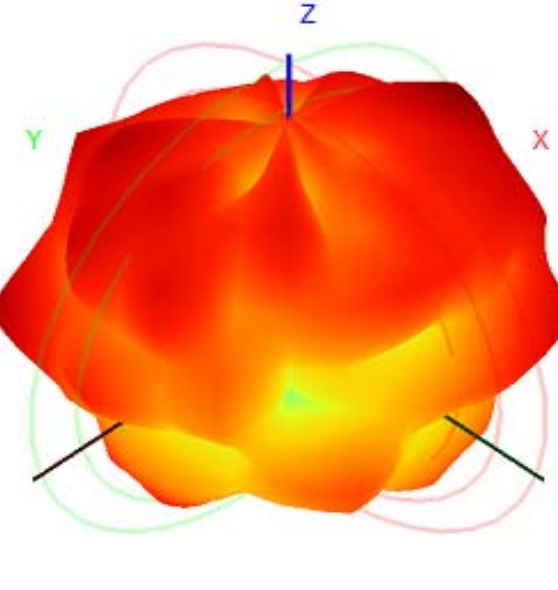
Total(H-XY), Max= -1.33dBi, CirD=15.38



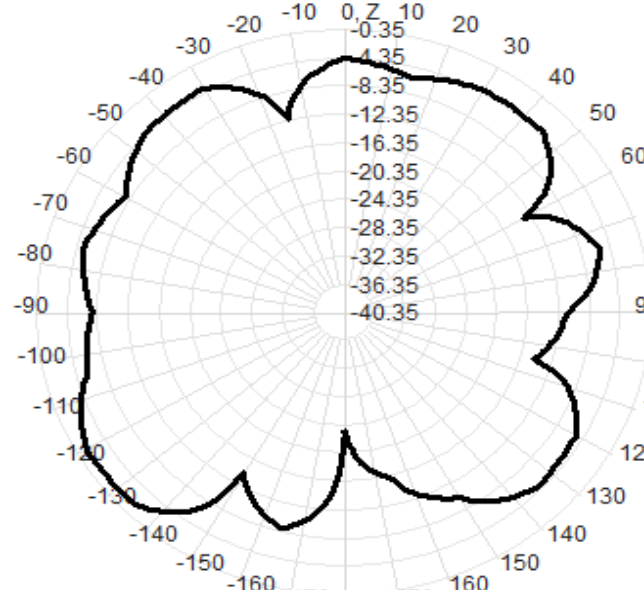
5158.0MHz H+V, Eff: 34.0%



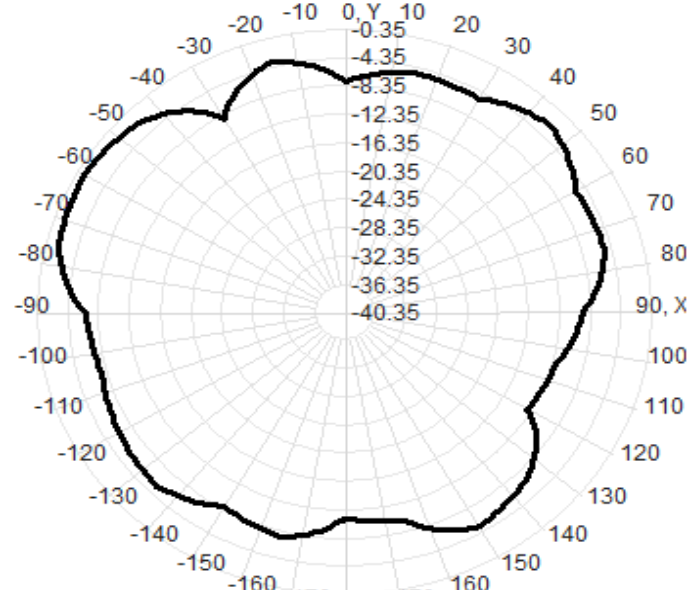
Back View



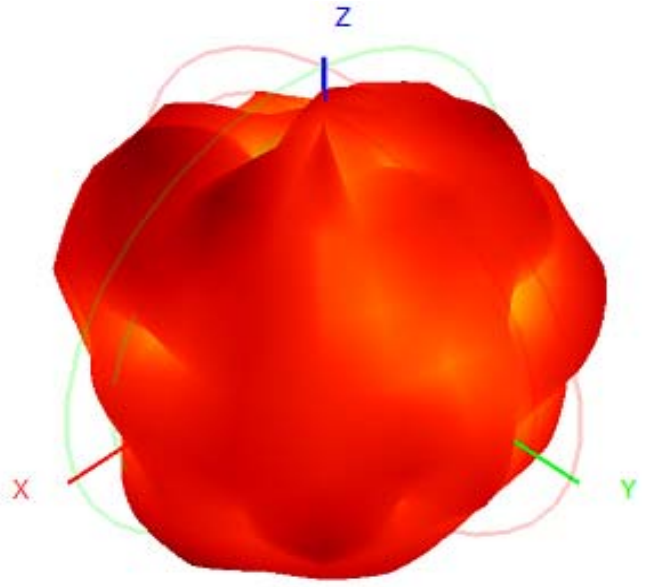
5158.0MHz Total(E2-YZ), Max= -1.82dBi



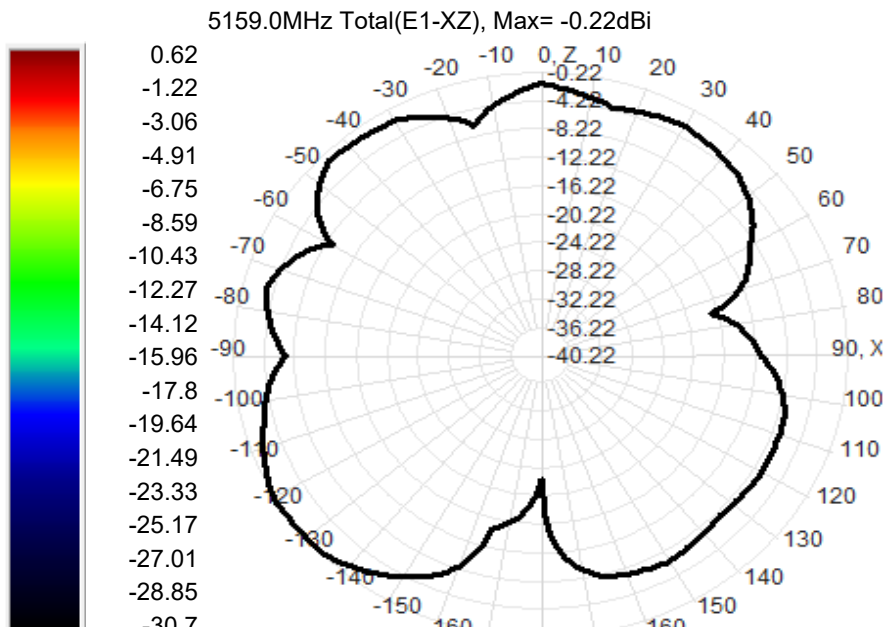
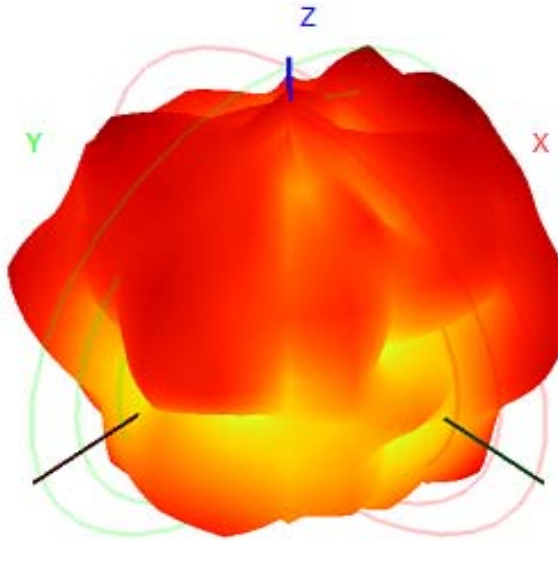
Total(H-XY), Max= -1.34dBi, CirD=11.82



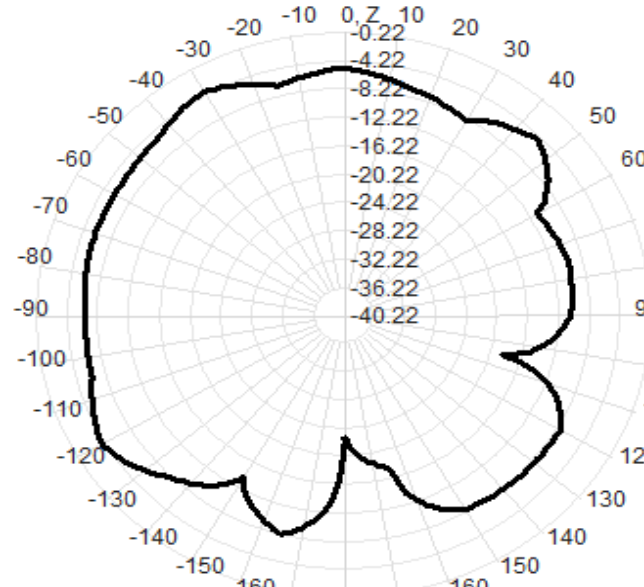
5159.0MHz H+V, Eff: 31.5%



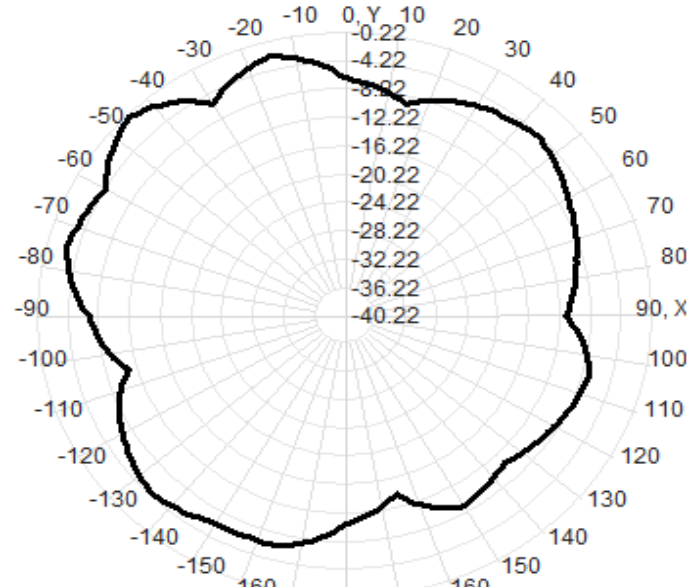
Back View



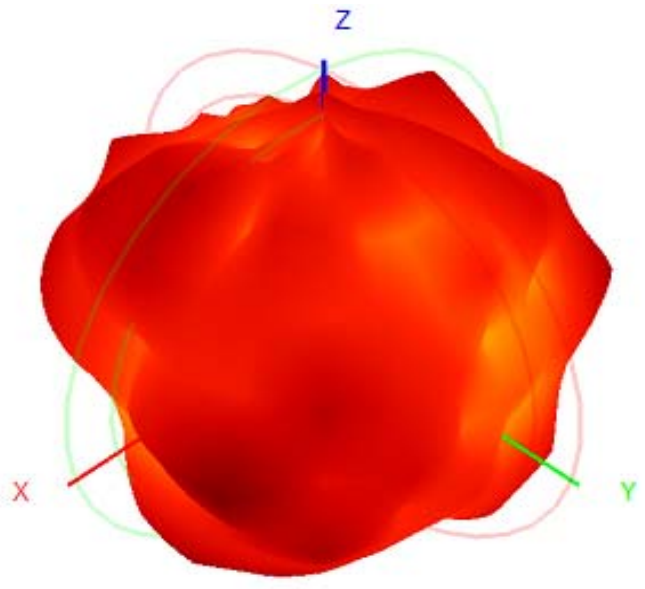
5159.0MHz Total(E2-YZ), Max= -3.77dBi



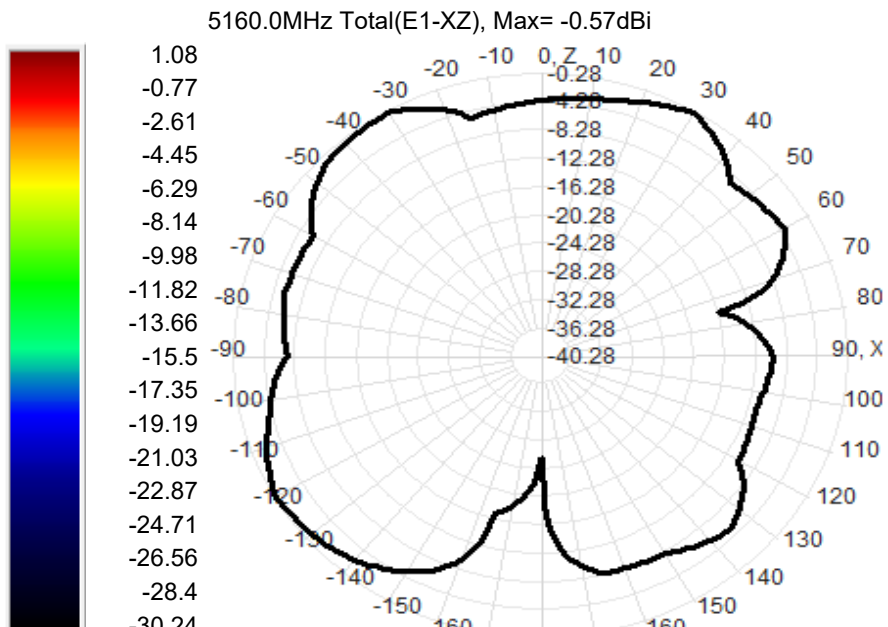
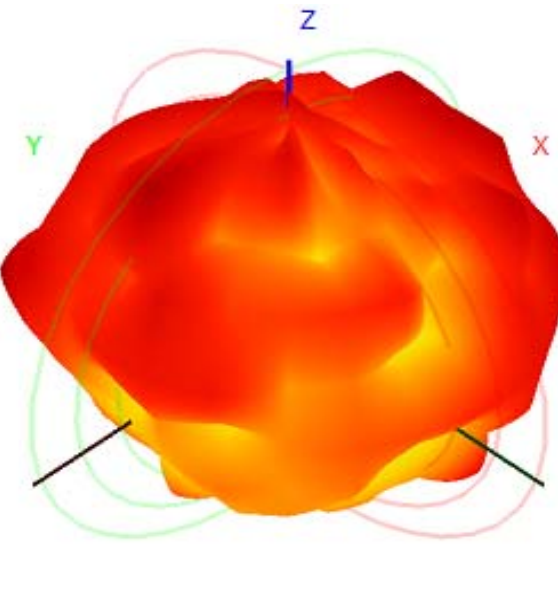
Total(H-XY), Max= -0.62dBi, CirD=13.73



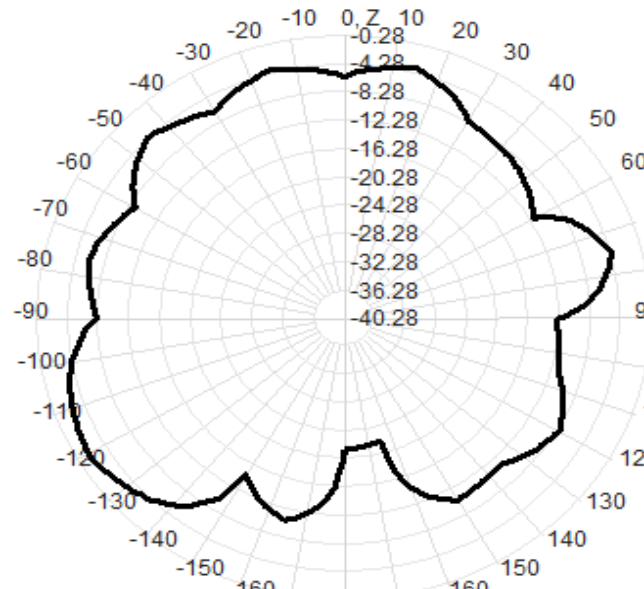
5160.0MHz H+V, Eff: 32.0%



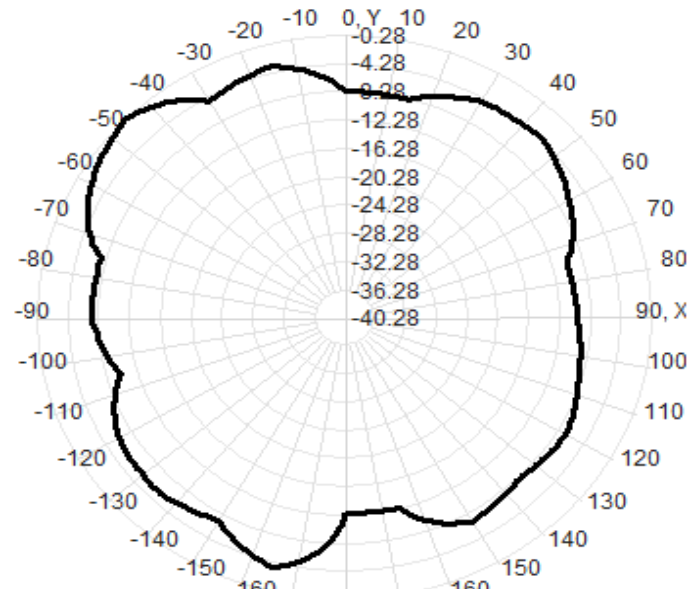
Back View



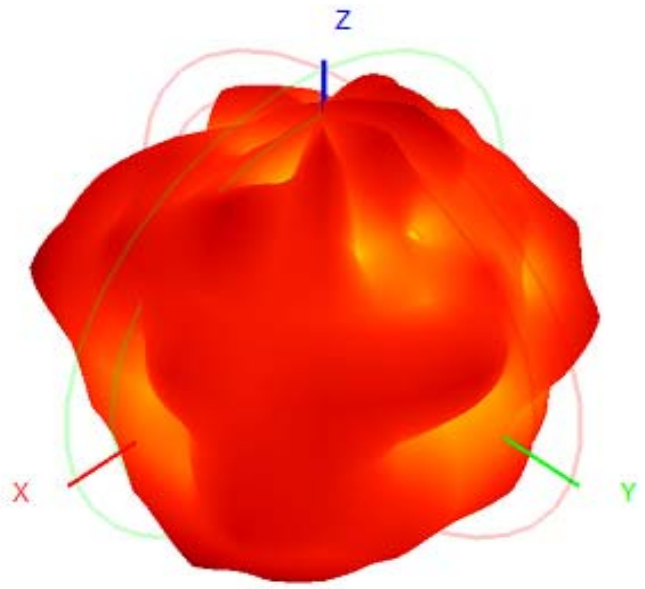
5160.0MHz Total(E2-YZ), Max= -1.96dBi



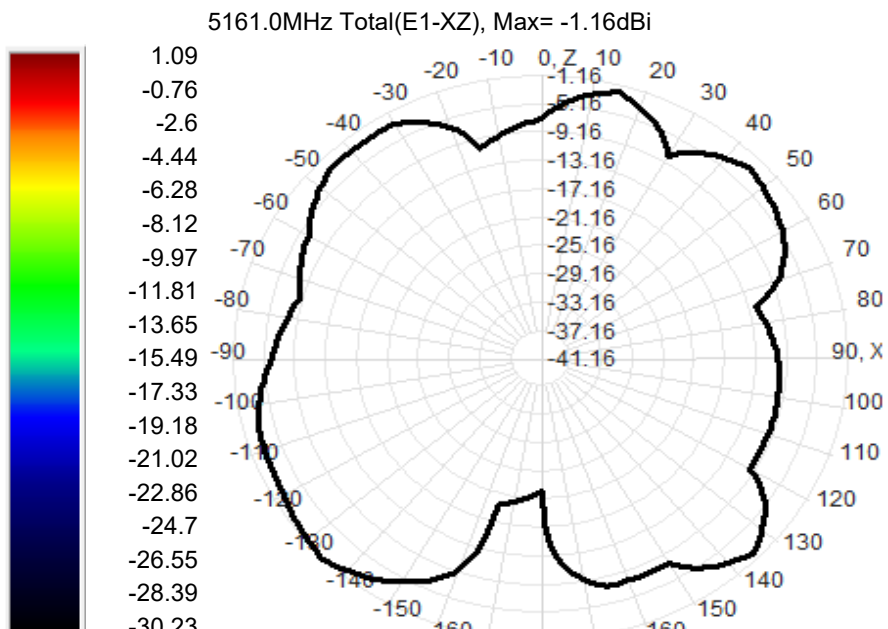
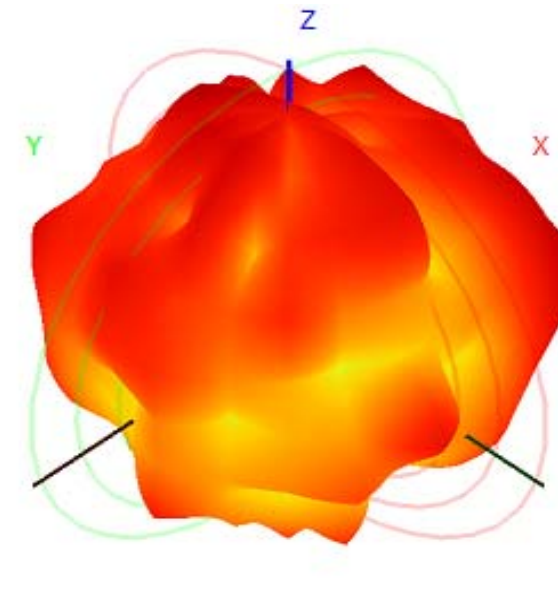
Total(H-XY), Max= -0.28dBi, CirD=12.60



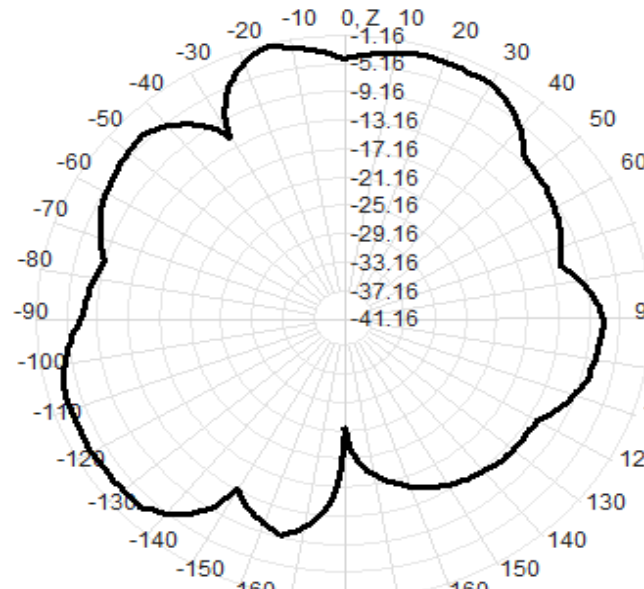
5161.0MHz H+V, Eff: 29.3%



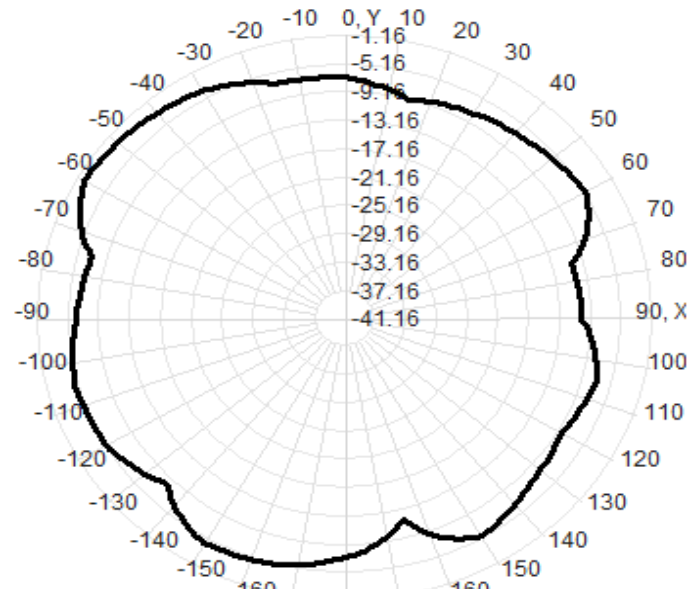
Back View



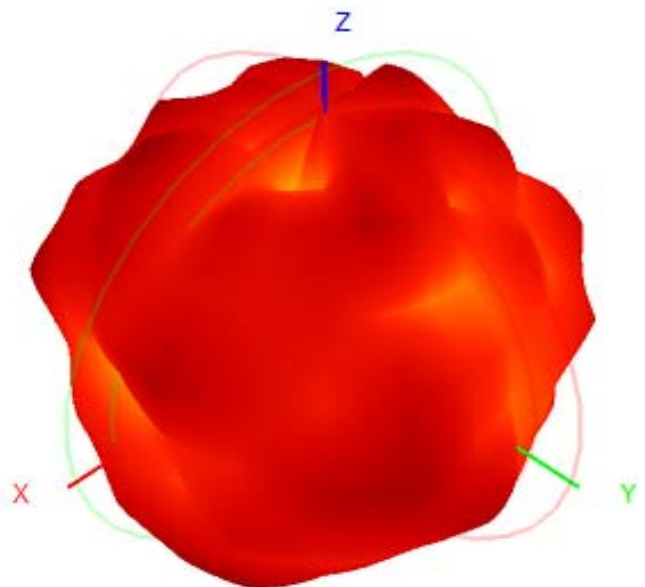
5161.0MHz Total(E2-YZ), Max= -1.53dBi



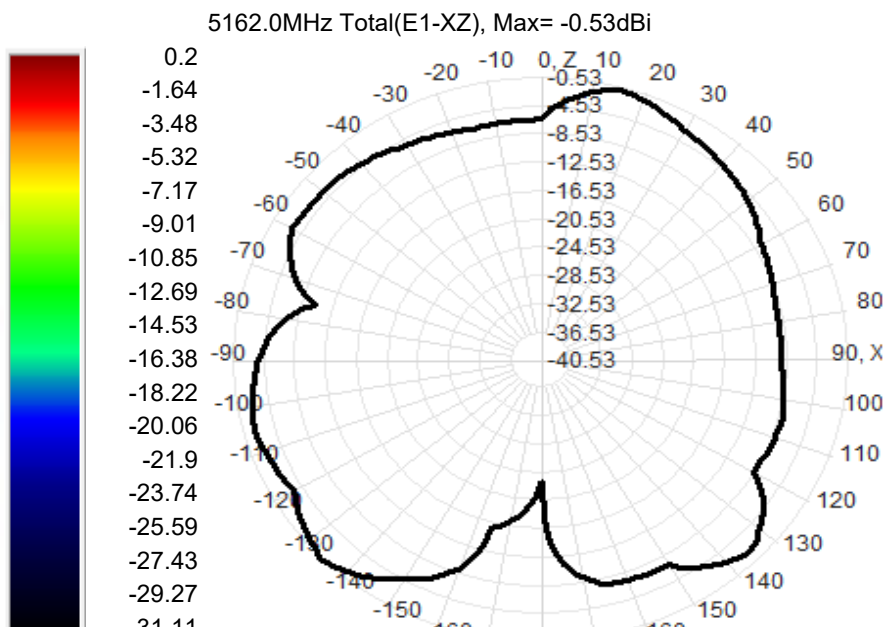
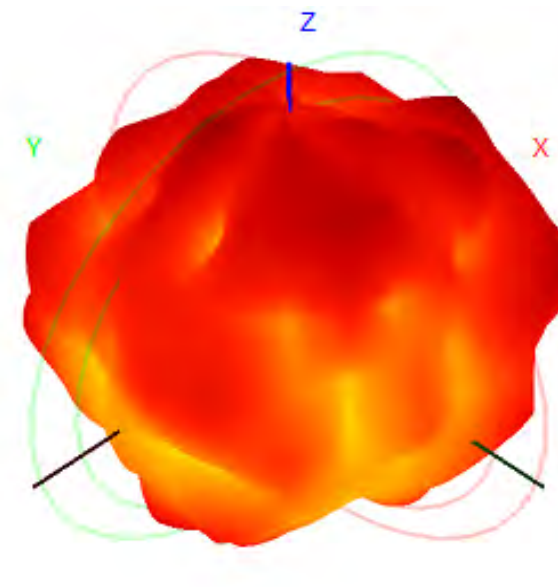
Total(H-XY), Max= -2.11dBi, CirD=9.83



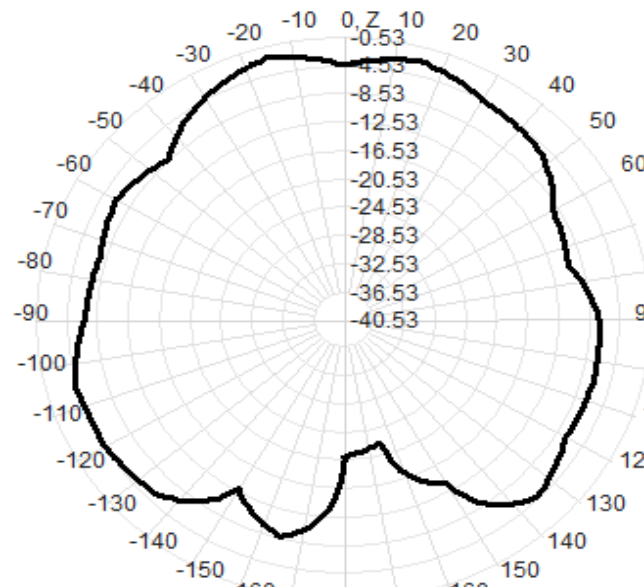
5162.0MHz H+V, Eff: 30.7%



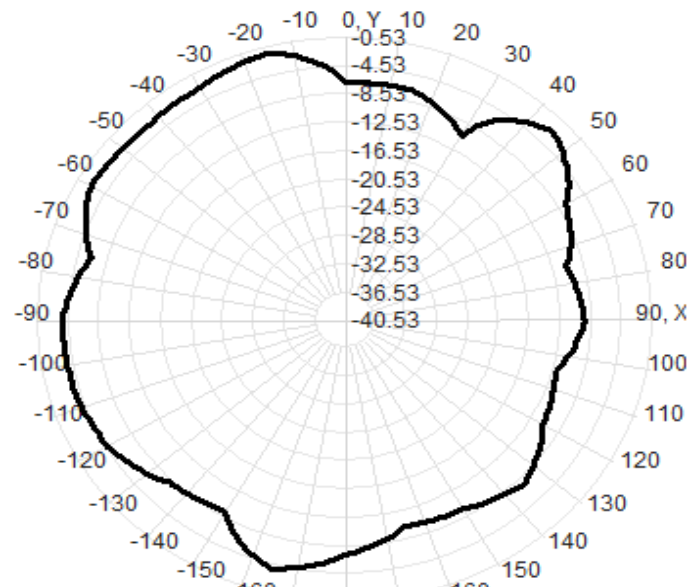
Back View



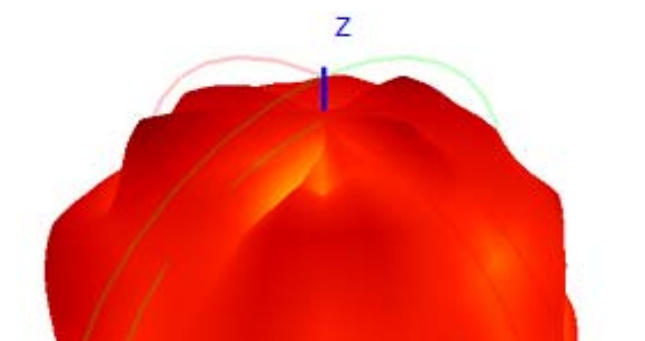
5162.0MHz Total(E2-YZ), Max= -2.16dBi



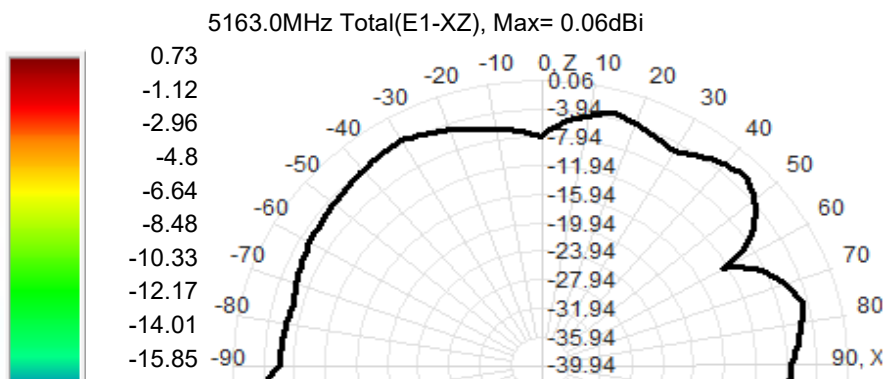
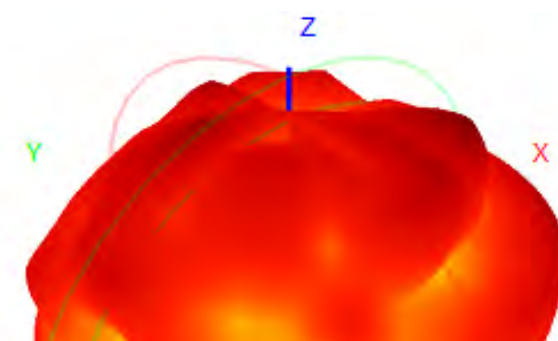
Total(H-XY), Max= -1.46dBi, CirD=10.88



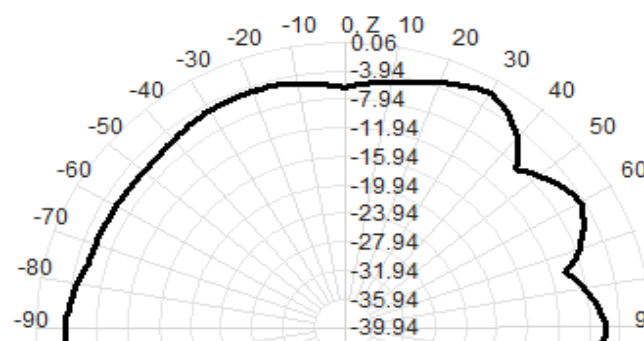
5163.0MHz H+V, Eff: 32.1%



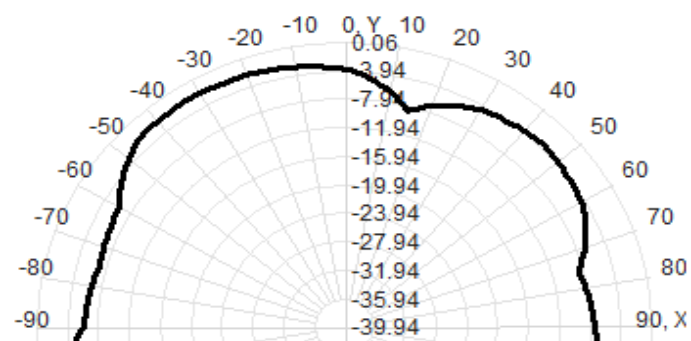
Back View

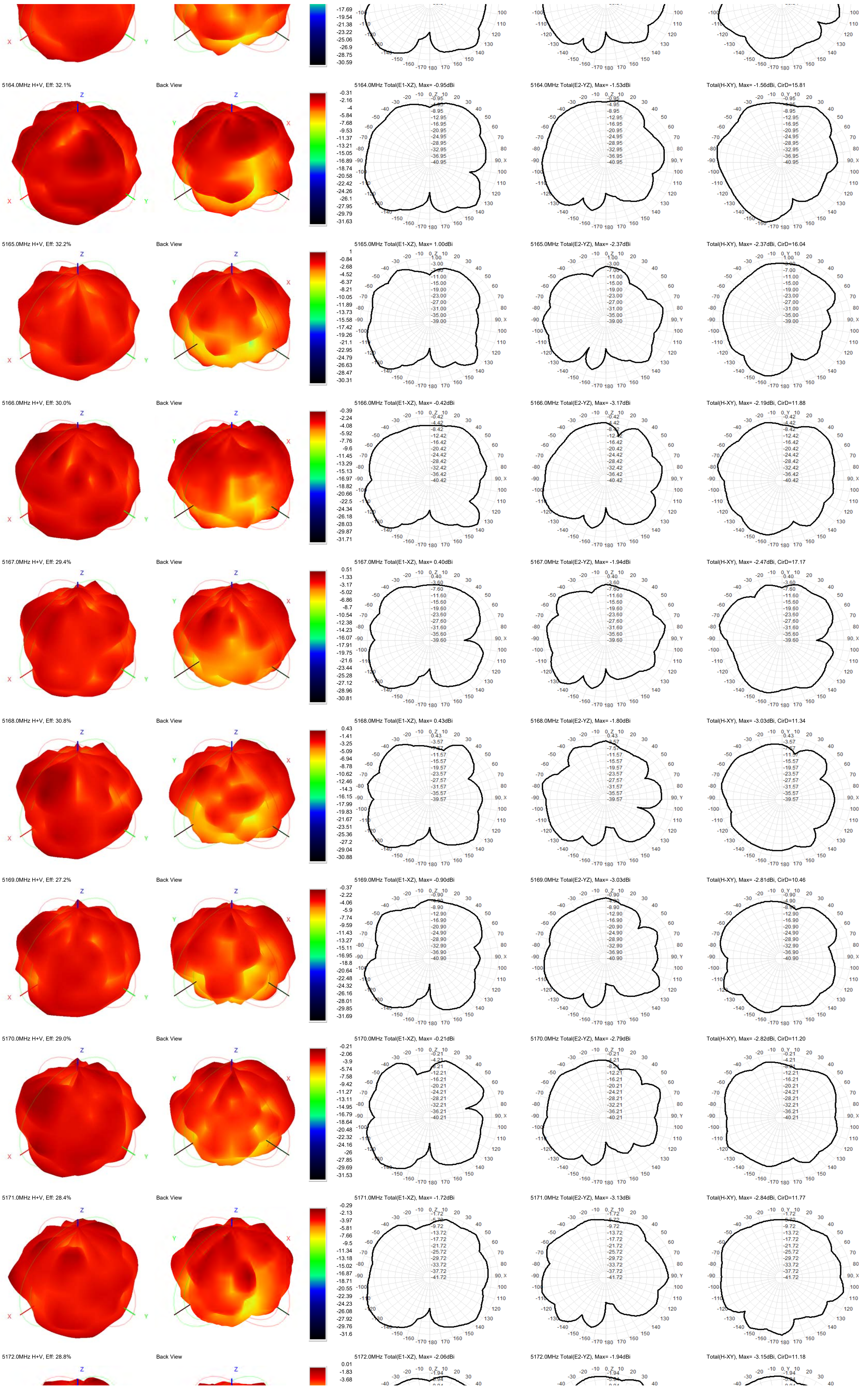


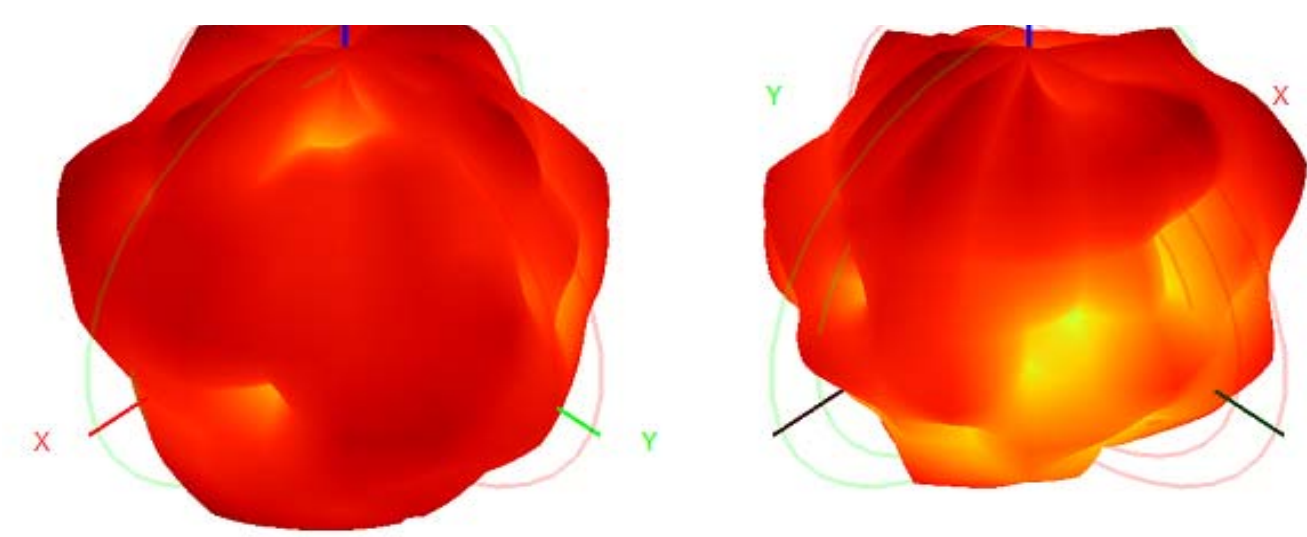
5163.0MHz Total(E2-YZ), Max= -1.89dBi



Total(H-XY), Max= -2.05dBi, CirD=14.05

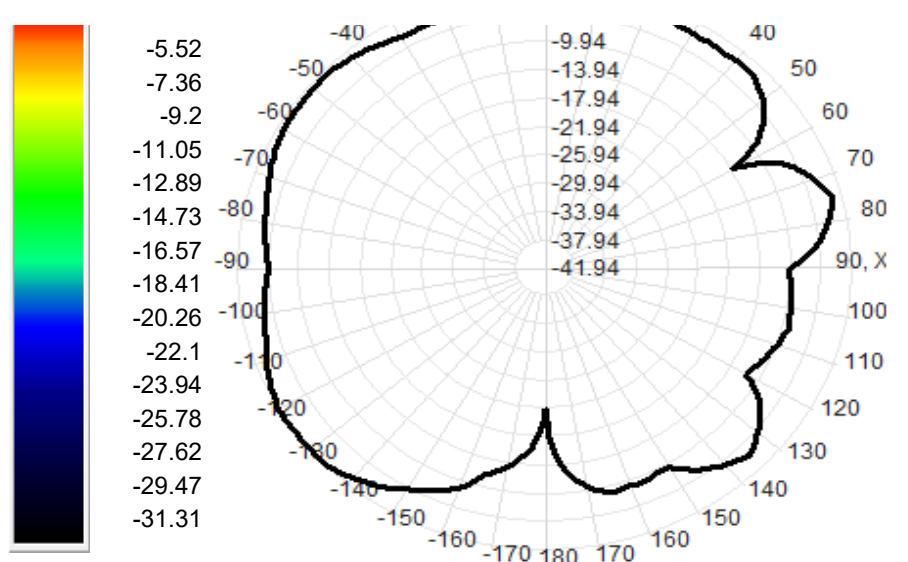




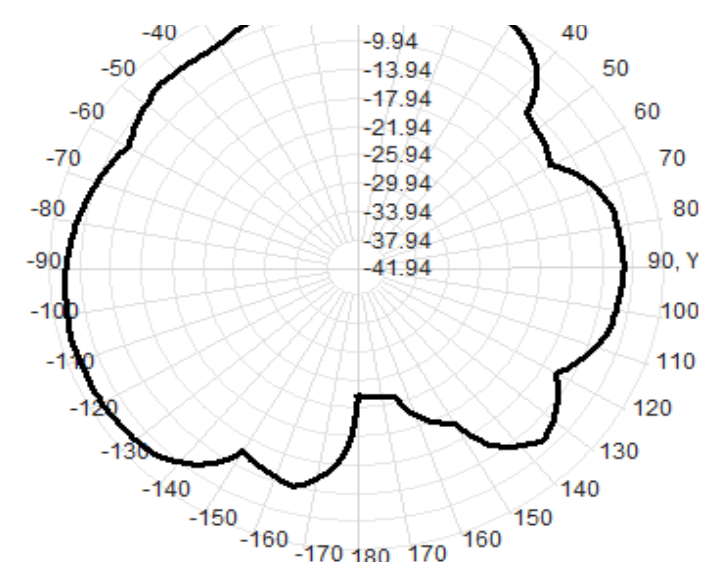


5173.0MHz H+V, Eff: 28.5%

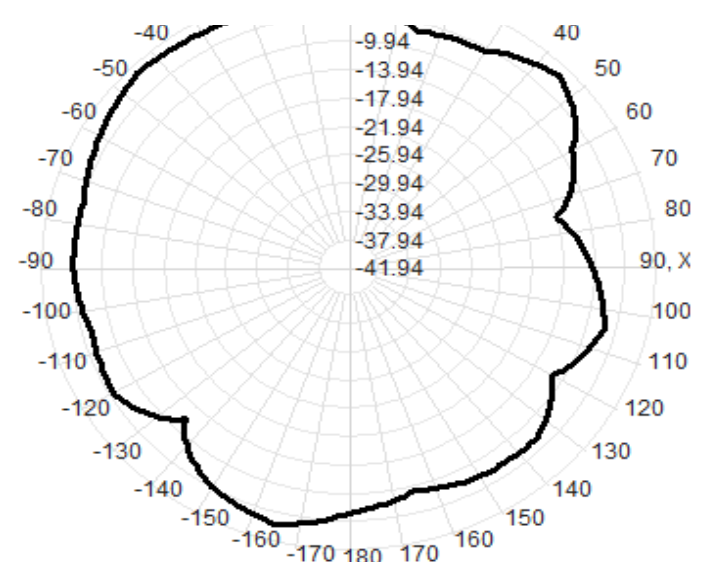
Back View



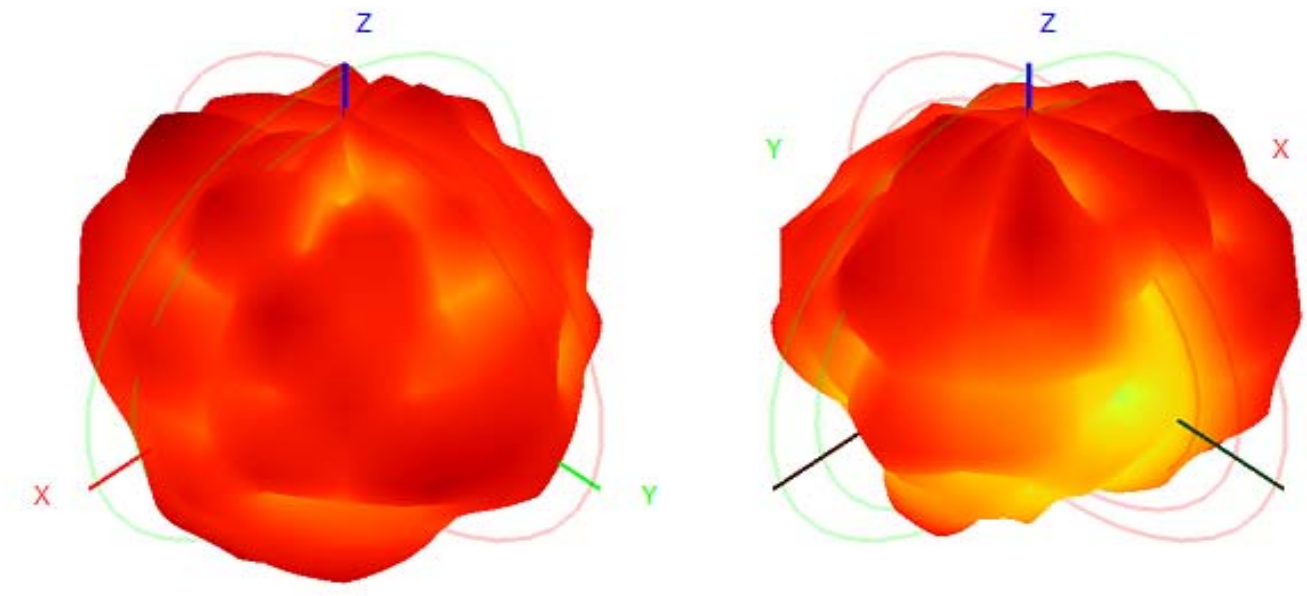
5173.0MHz Total(E1-XZ), Max=-1.12dBi



5173.0MHz Total(E2-YZ), Max=-2.71dBi

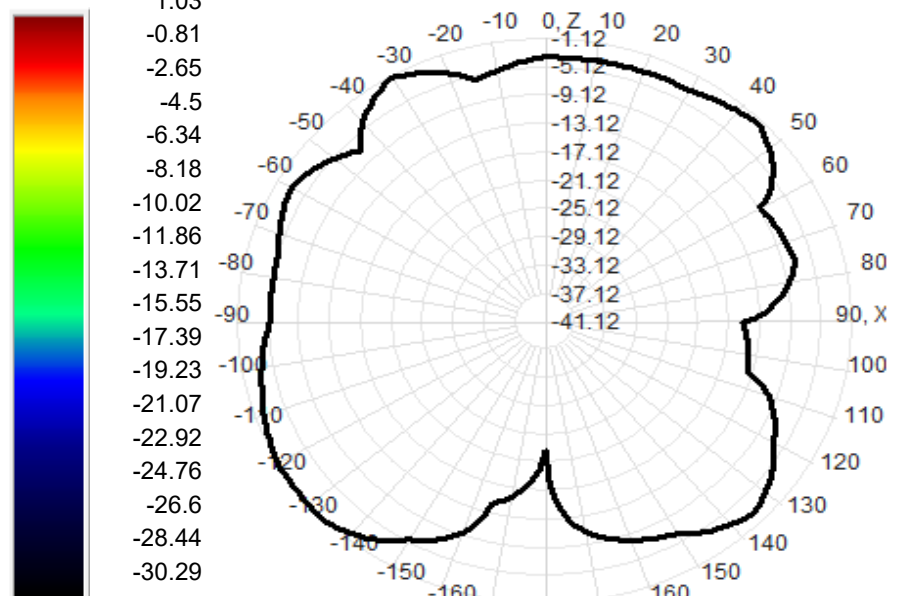


Total(H-XY), Max=-2.84dBi, CirD=12.69

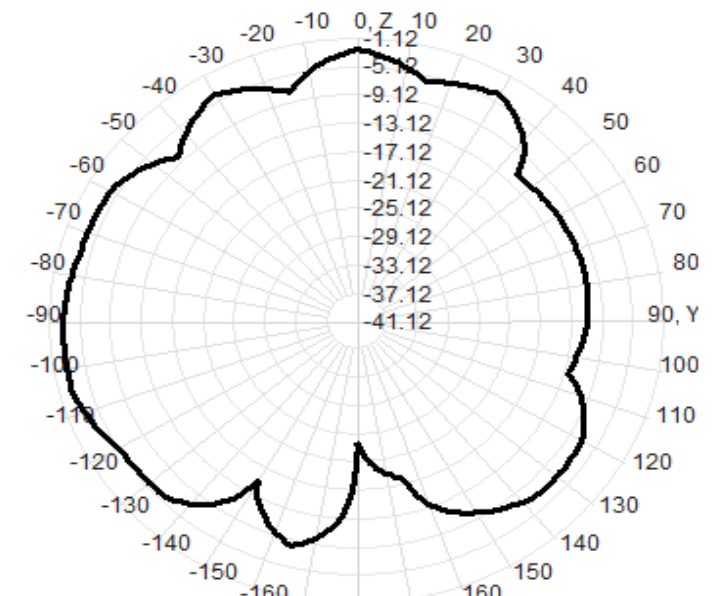


5174.0MHz H+V, Eff: 29.0%

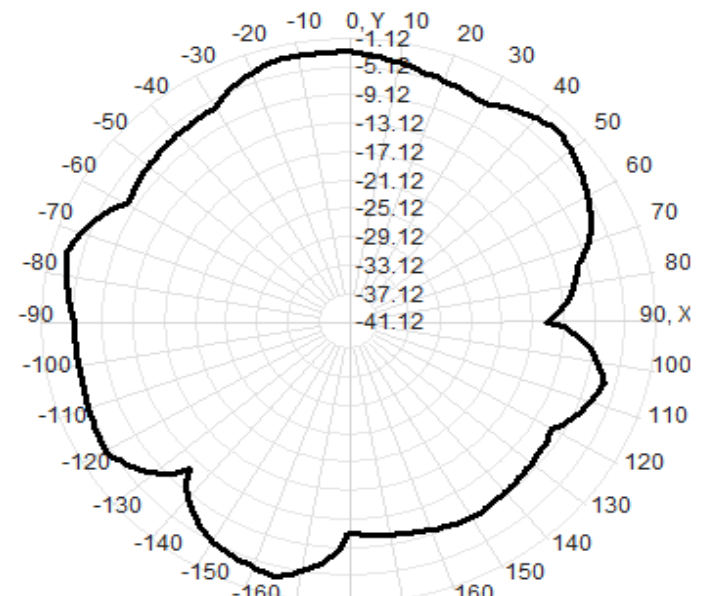
Back View



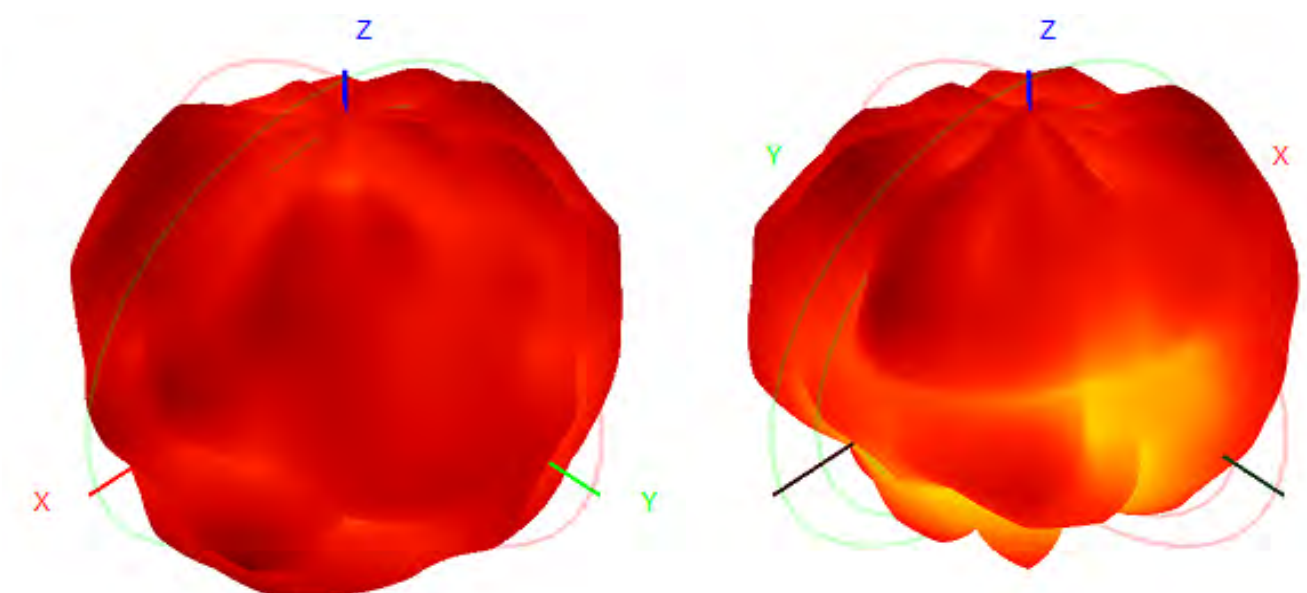
5174.0MHz Total(E1-XZ), Max=-1.21dBi



5174.0MHz Total(E2-YZ), Max=-3.88dBi

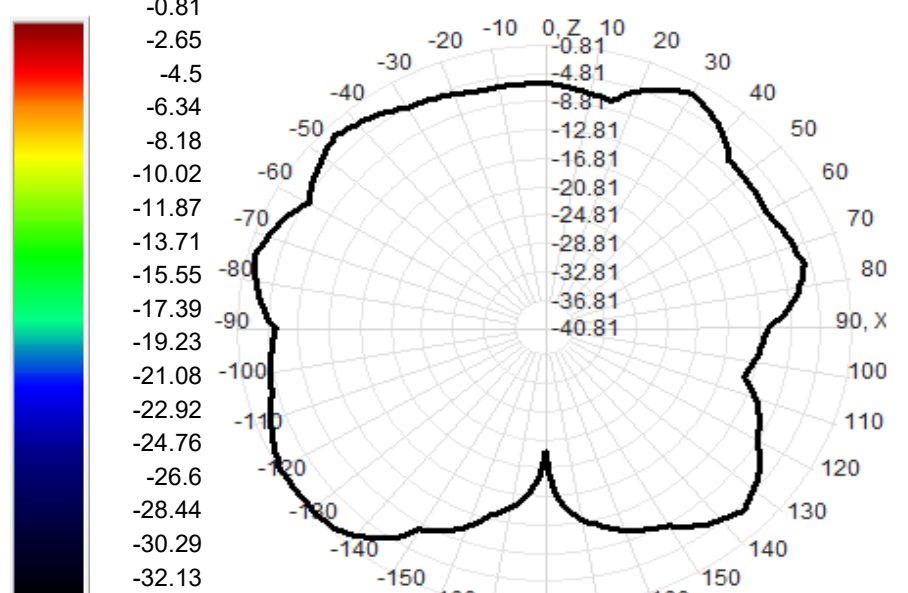


Total(H-XY), Max=-0.81dBi, CirD=13.46

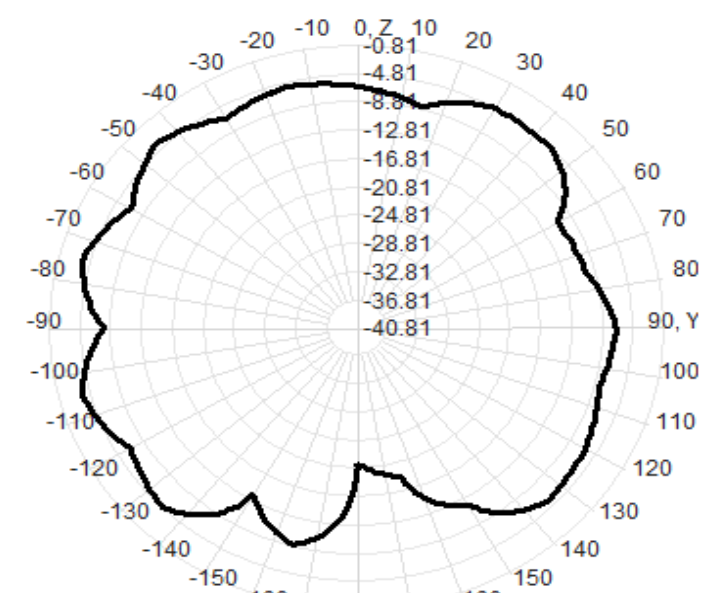


5175.0MHz H+V, Eff: 28.3%

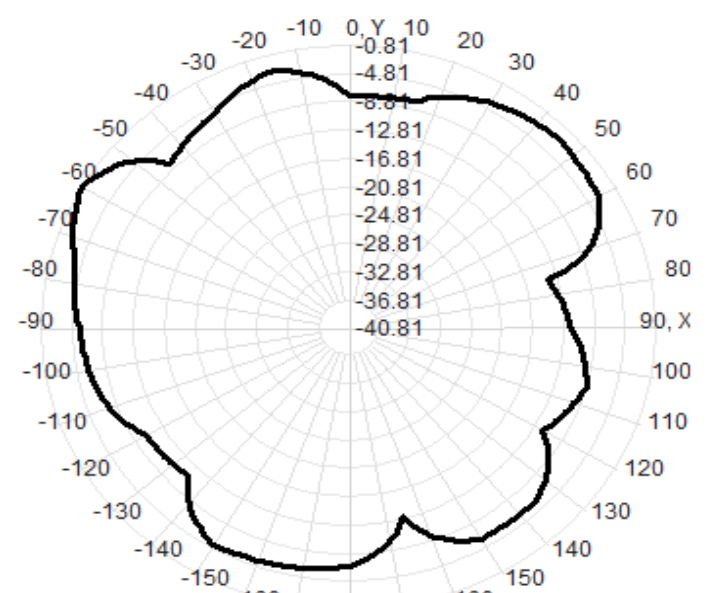
Back View



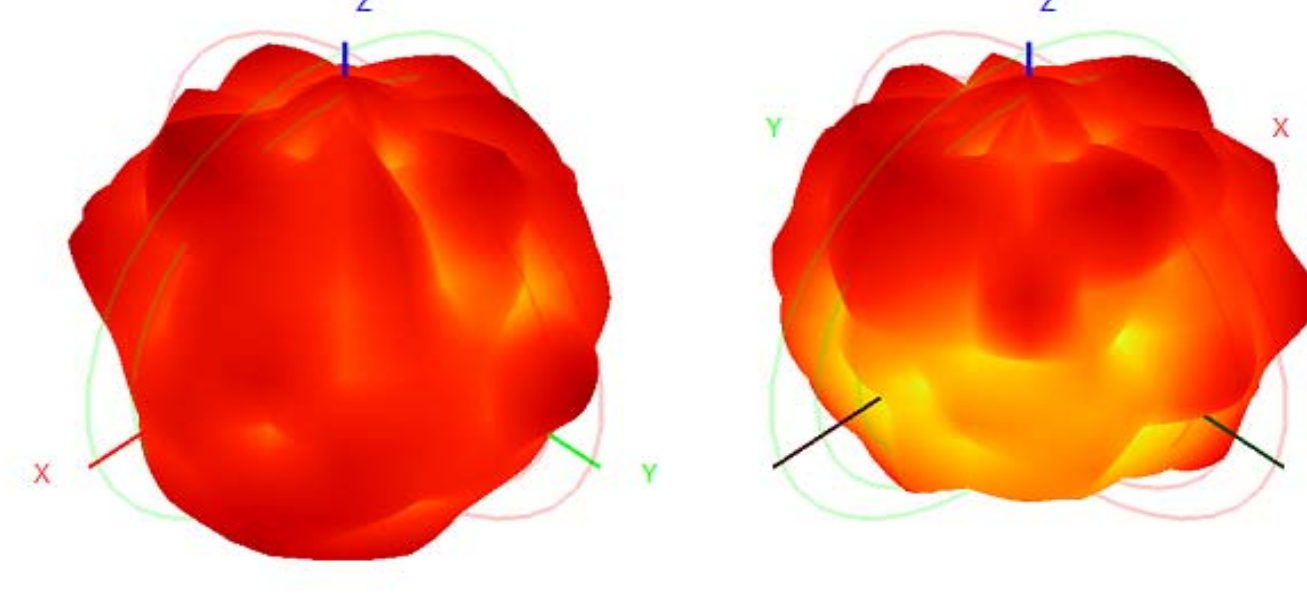
5175.0MHz Total(E1-XZ), Max=-1.54dBi



5175.0MHz Total(E2-YZ), Max=-0.76dBi

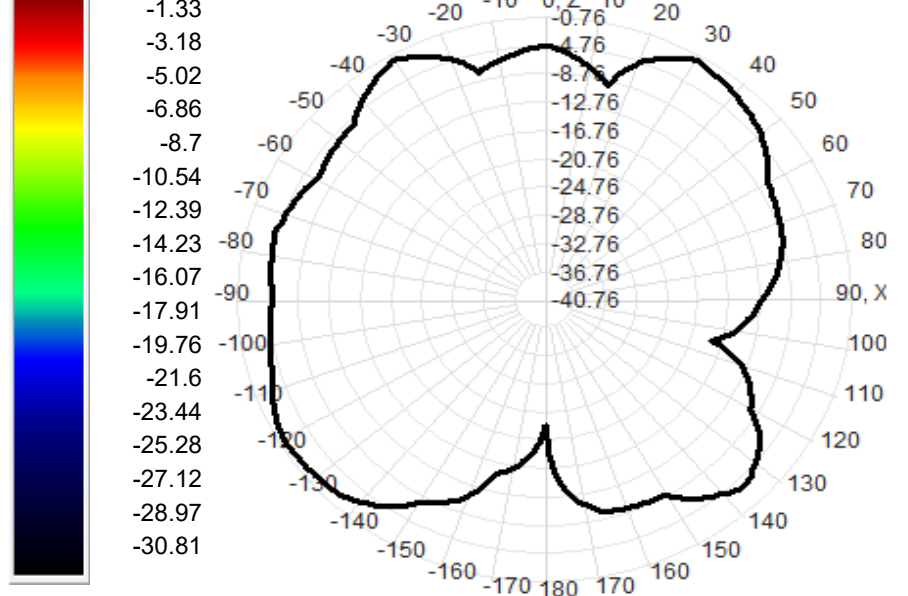


Total(H-XY), Max=-2.30dBi, CirD=10.60

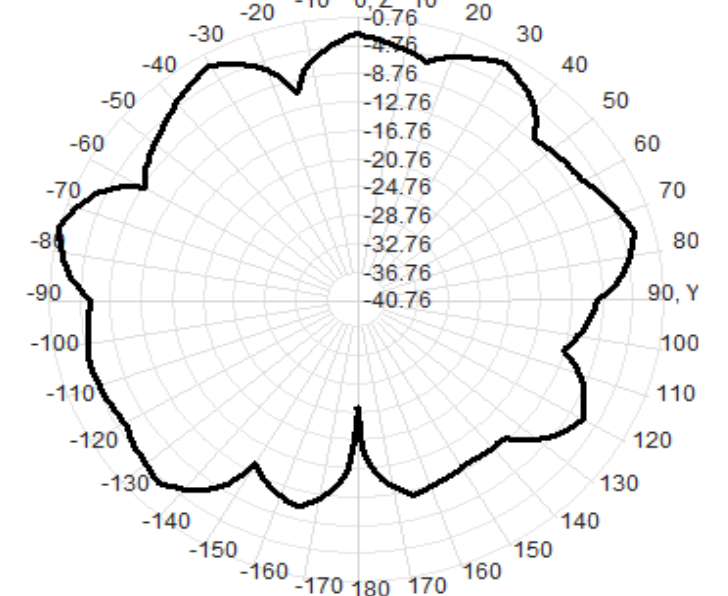


5176.0MHz H+V, Eff: 28.6%

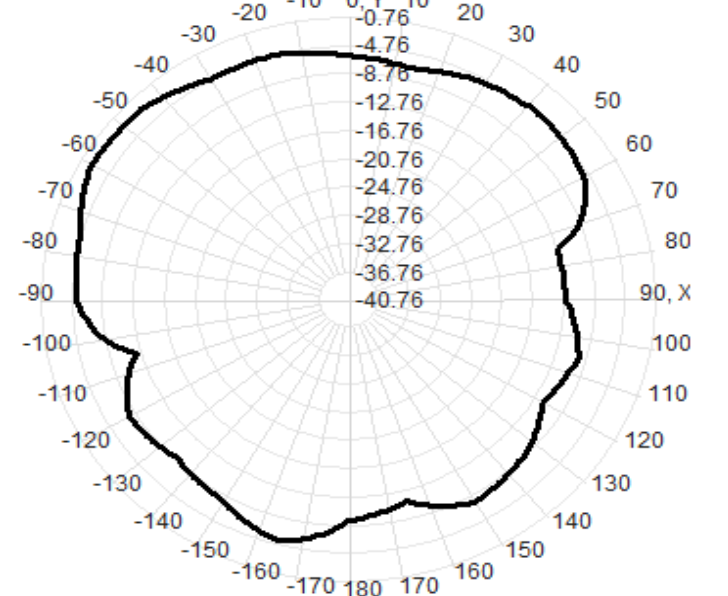
Back View



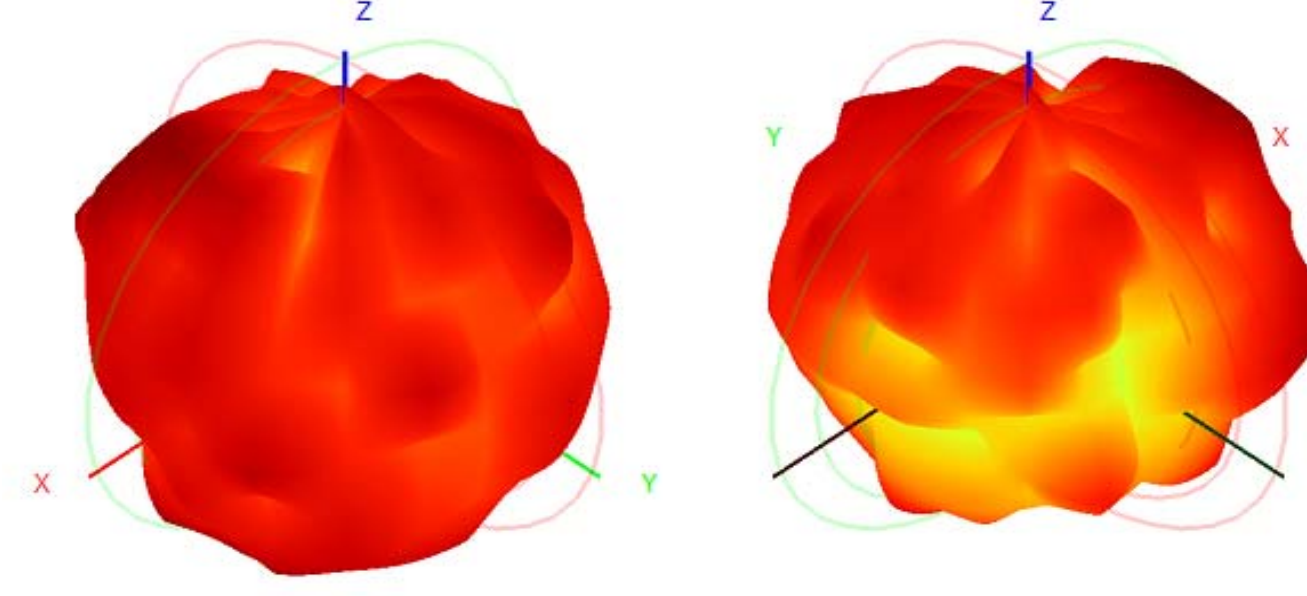
5176.0MHz Total(E1-XZ), Max=-0.47dBi



5176.0MHz Total(E2-YZ), Max=-2.43dBi

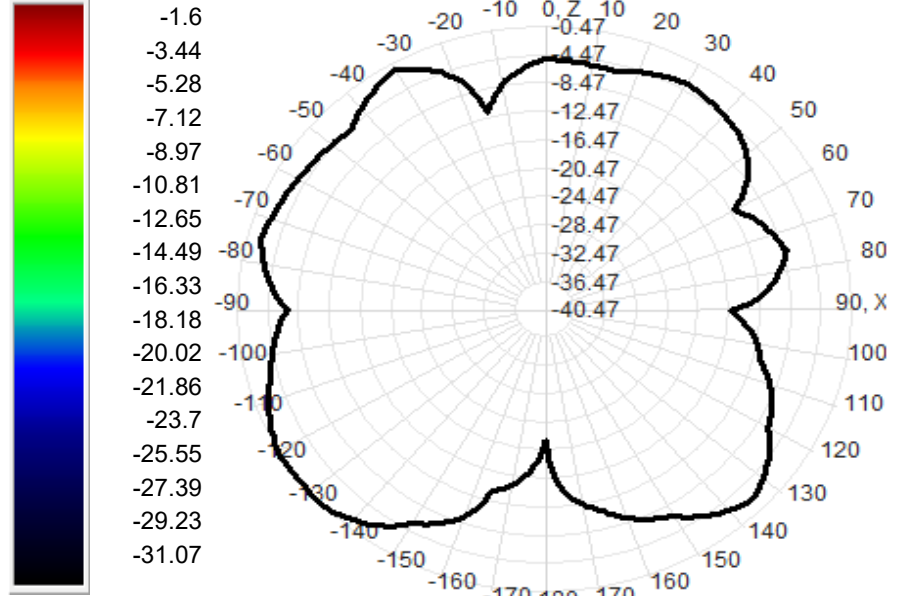


Total(H-XY), Max=-2.74dBi, CirD=15.78

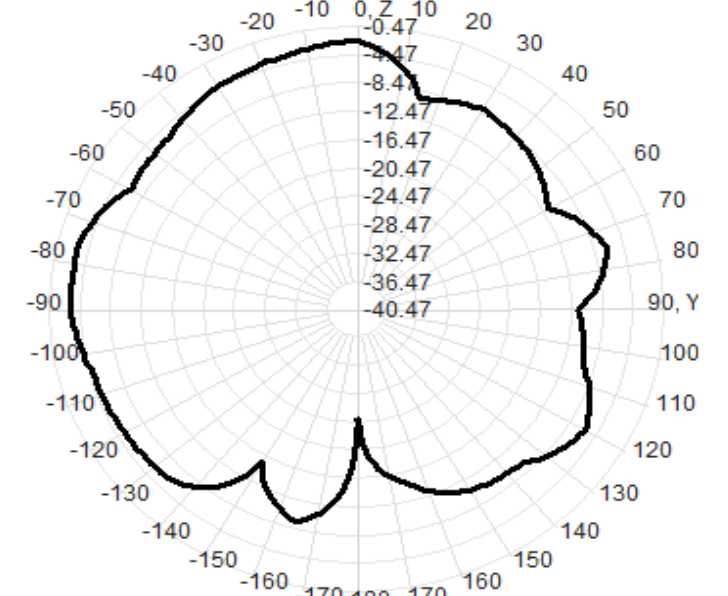


5177.0MHz H+V, Eff: 27.6%

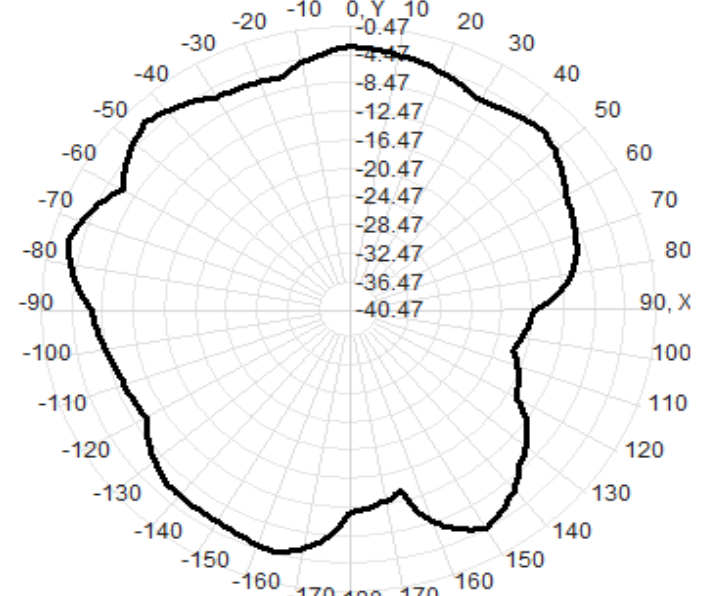
Back View



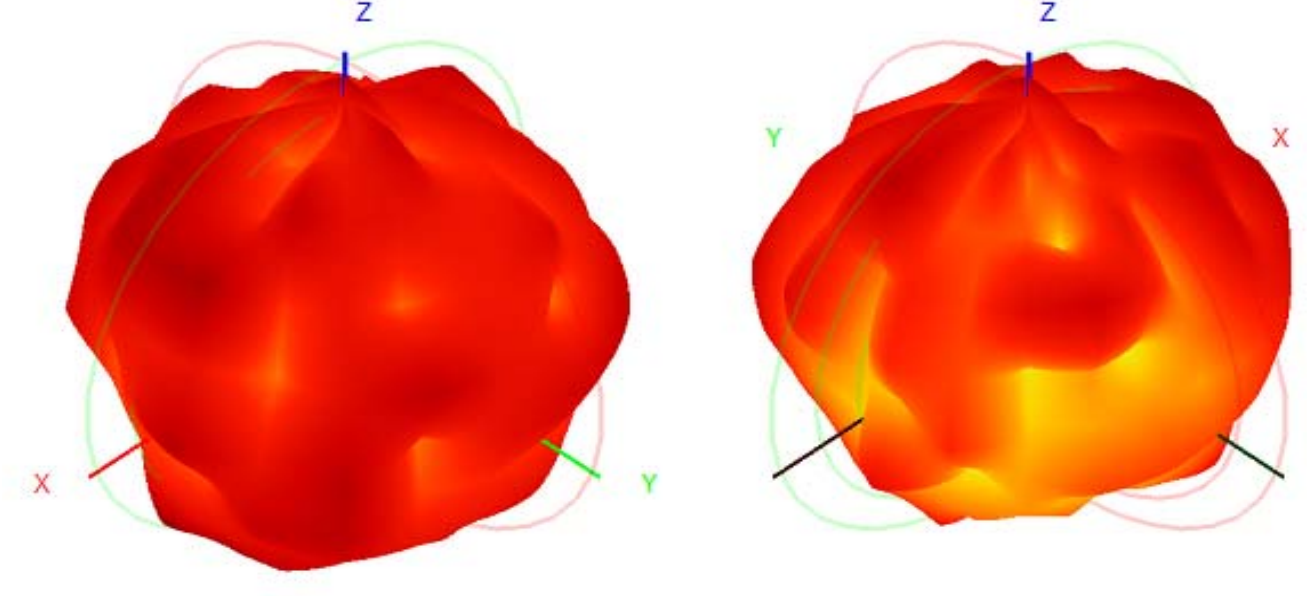
5177.0MHz Total(E1-XZ), Max=-0.40dBi



5177.0MHz Total(E2-YZ), Max=-3.12dBi

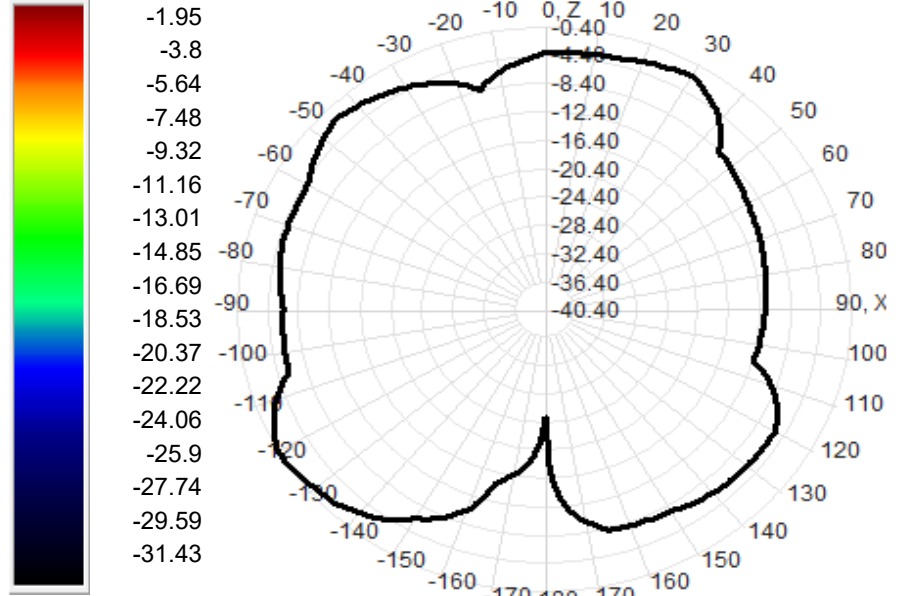


Total(H-XY), Max=-2.36dBi, CirD=9.57

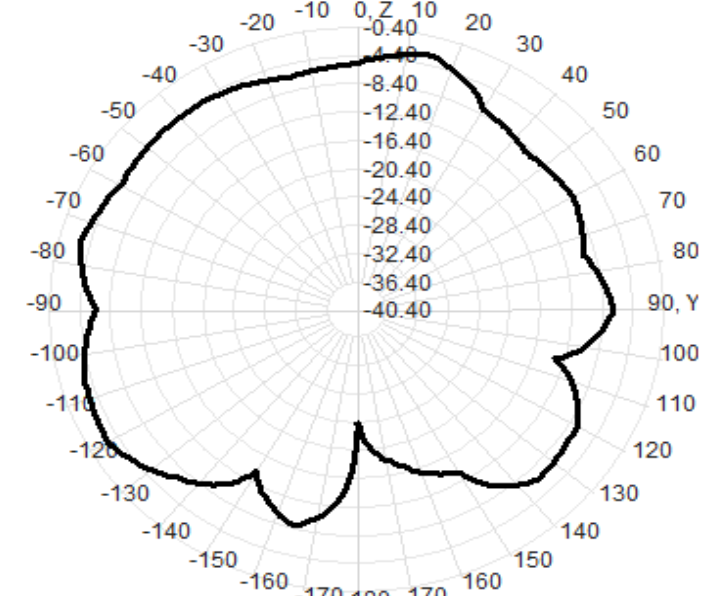


5178.0MHz H+V, Eff: 27.5%

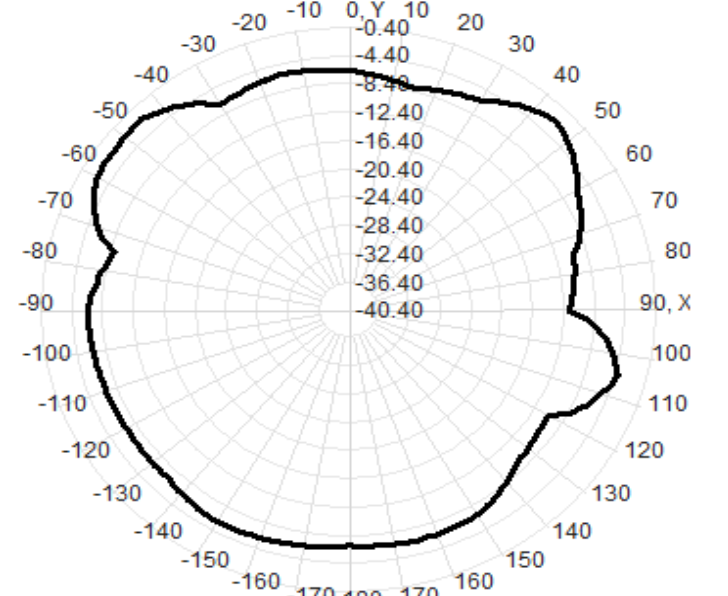
Back View



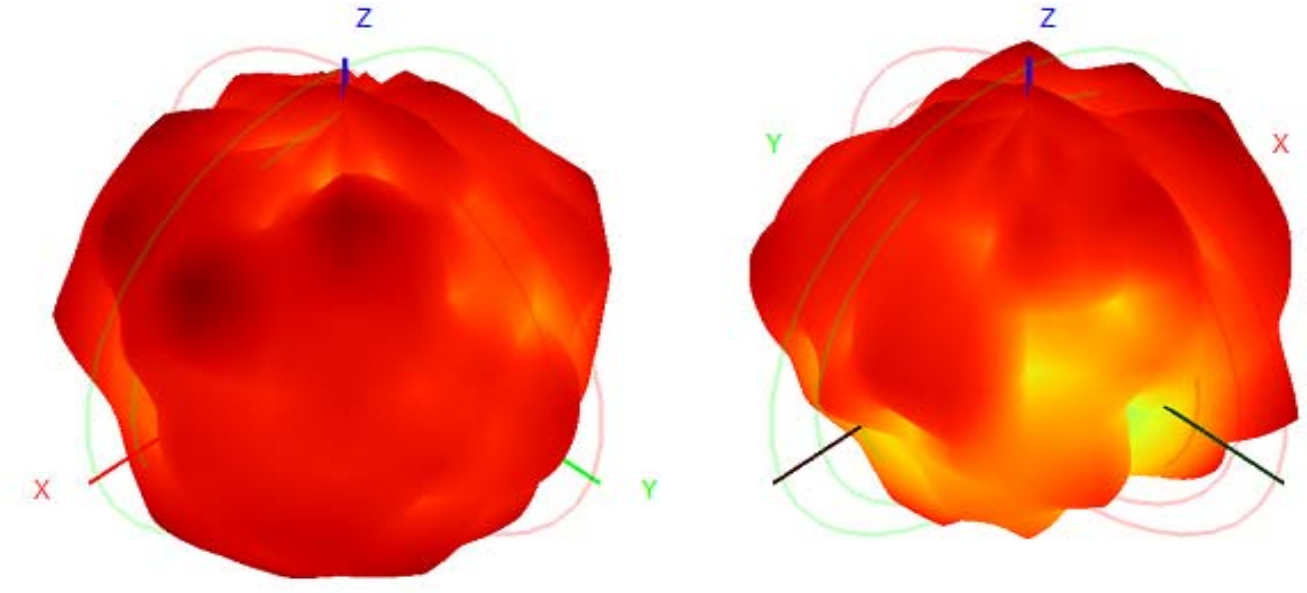
5178.0MHz Total(E1-XZ), Max=-0.40dBi



5178.0MHz Total(E2-YZ), Max=-2.24dBi

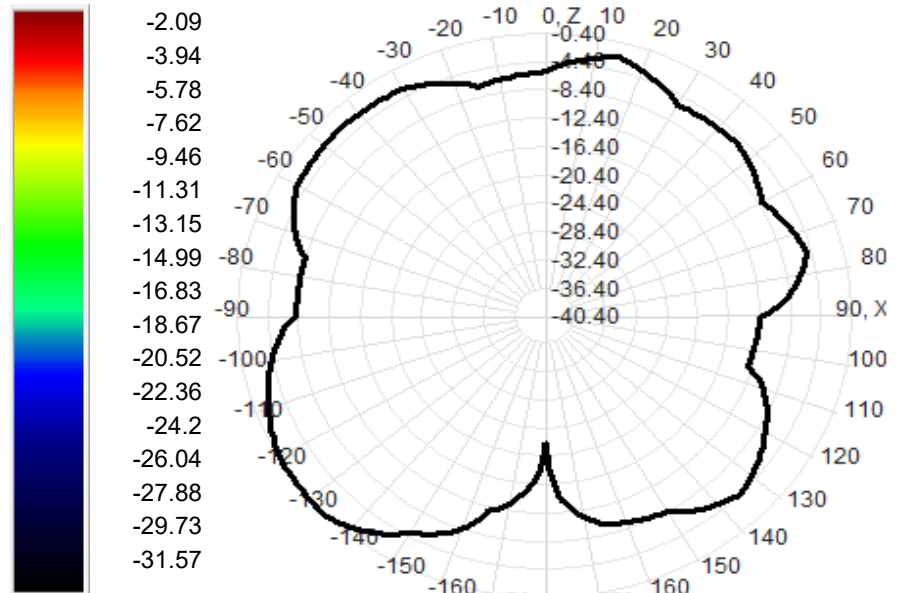


Total(H-XY), Max=-1.99dBi, CirD=16.79

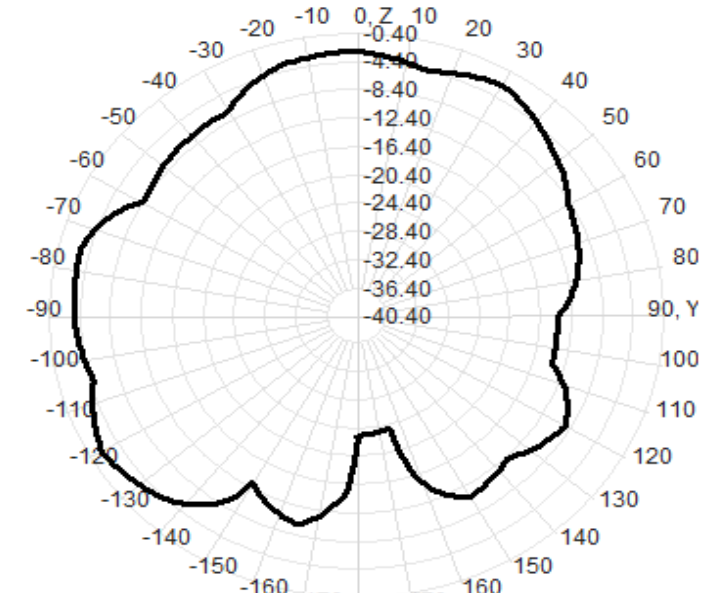


5179.0MHz H+V, Eff: 28.7%

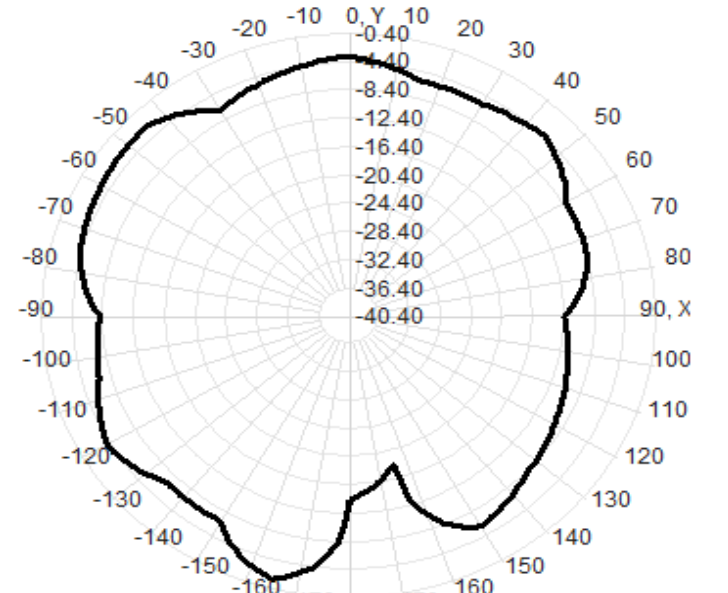
Back View



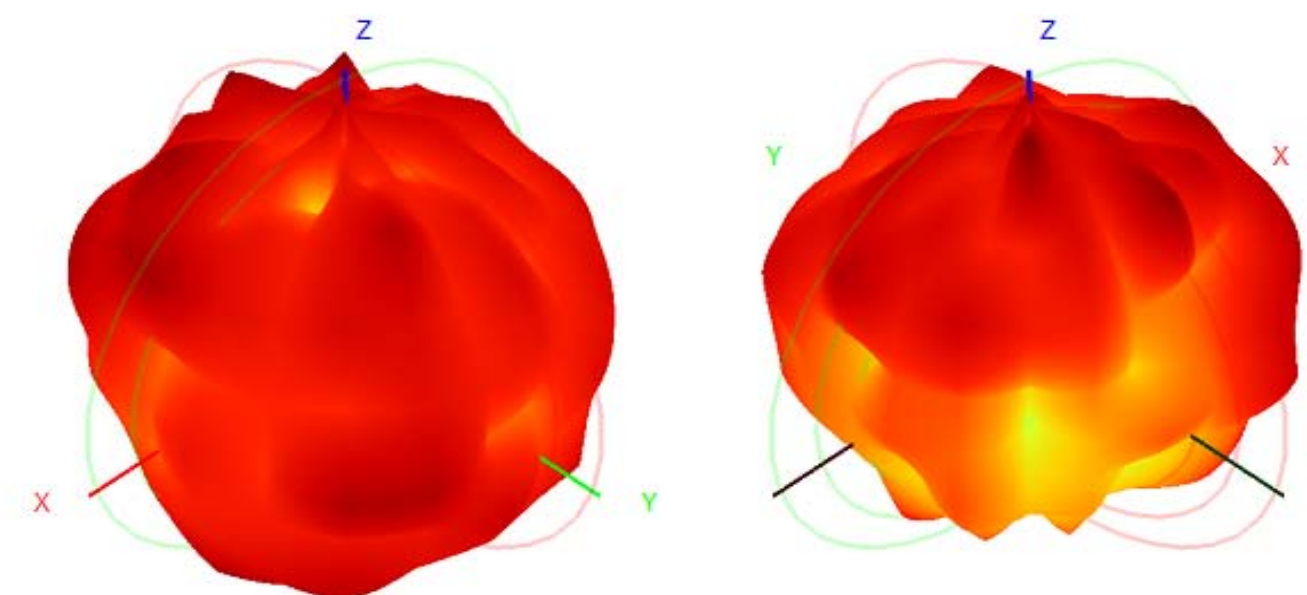
5179.0MHz Total(E1-XZ), Max=-1.30dBi



5179.0MHz Total(E2-YZ), Max=-0.47dBi

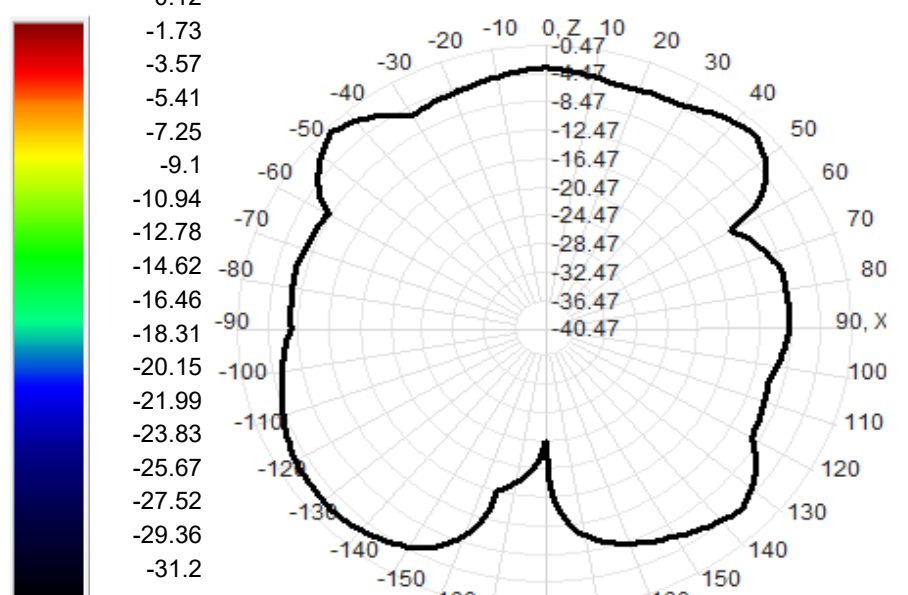


Total(H-XY), Max=-2.48dBi, CirD=10.11

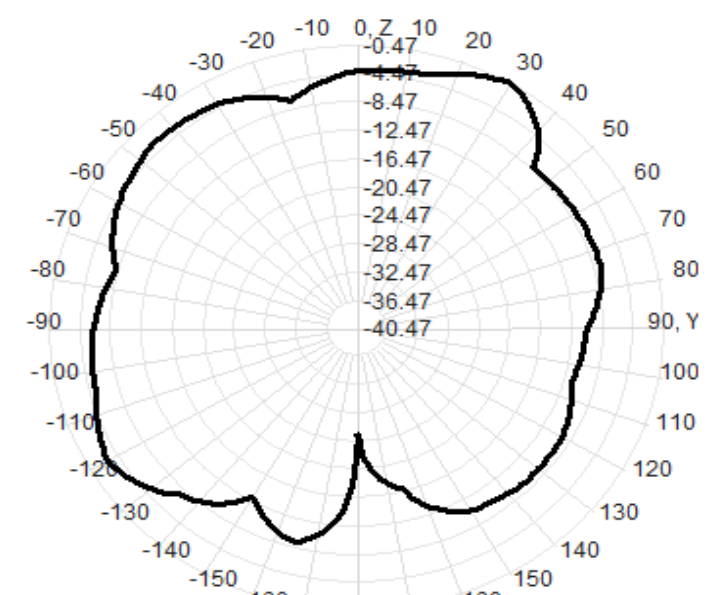


5180.0MHz H+V, Eff: 29.9%

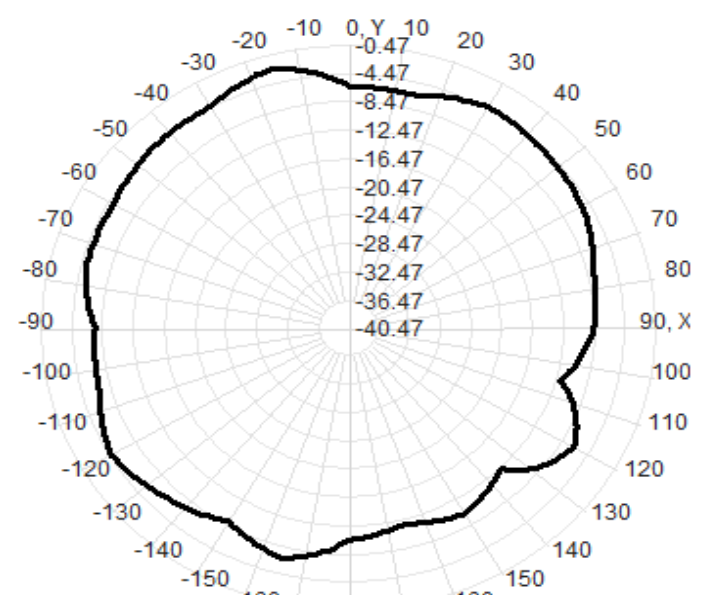
Back View



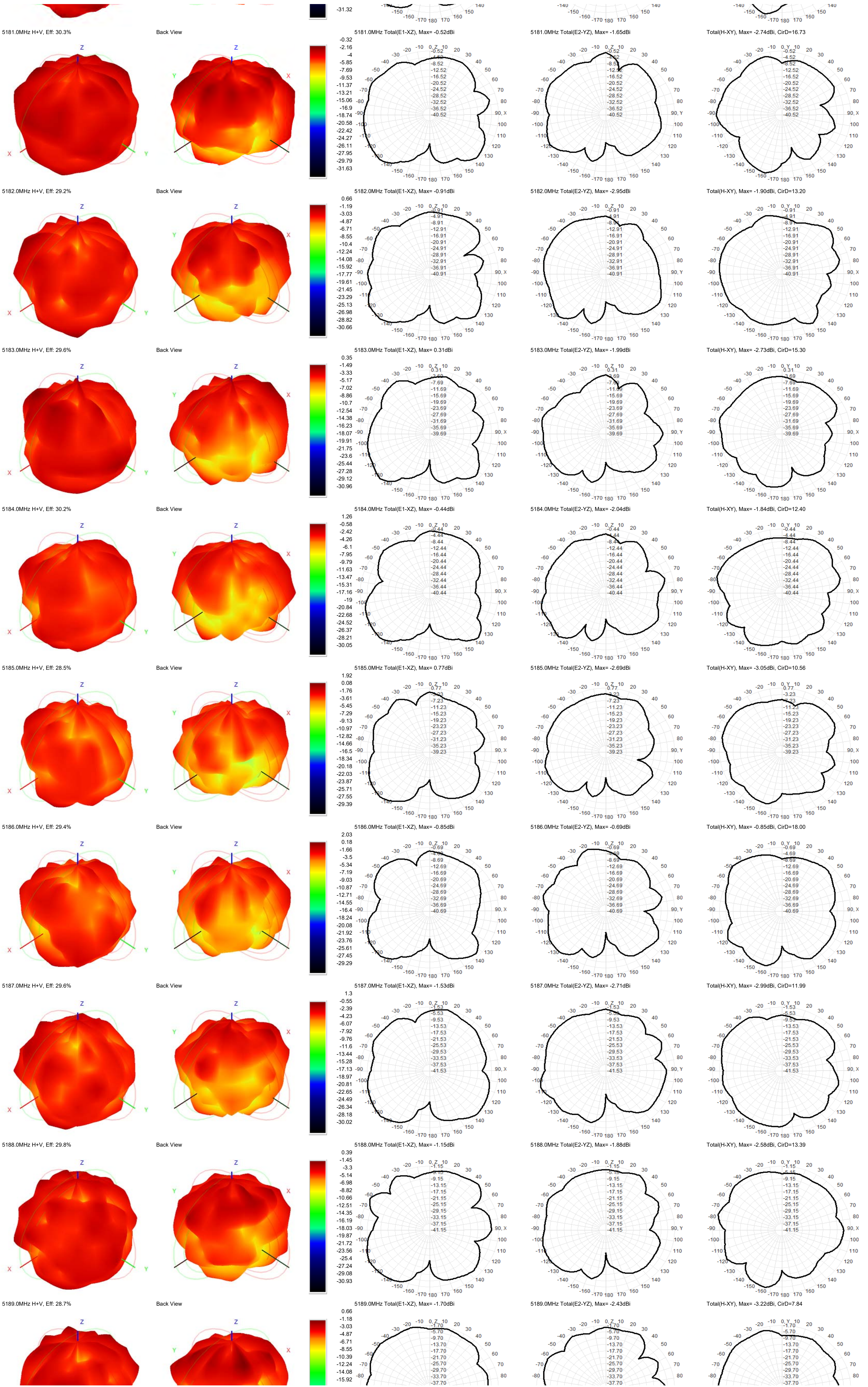
5180.0MHz Total(E1-XZ), Max=-0.88dBi

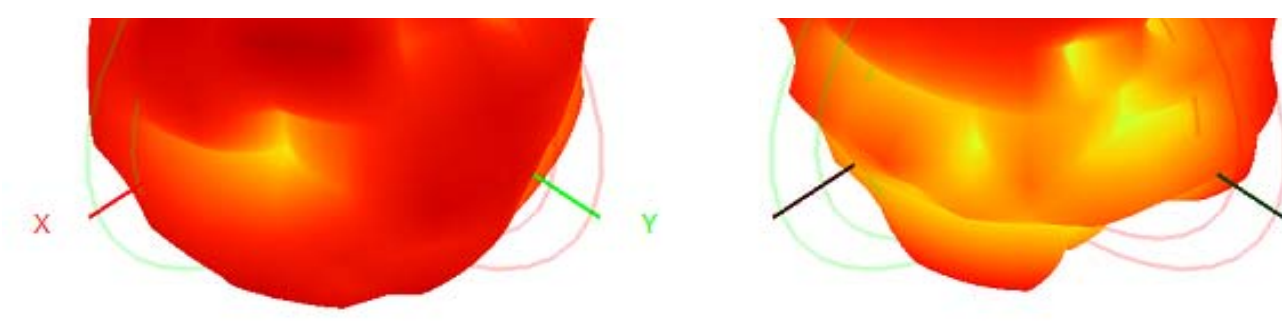


5180.0MHz Total(E2-YZ), Max=-1.92dBi



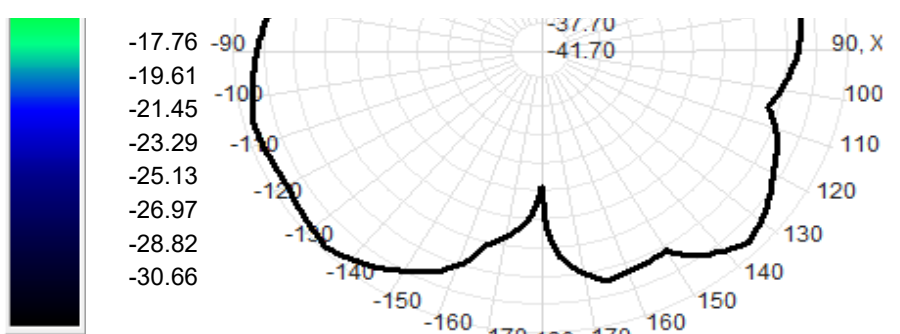
Total(H-XY), Max=-0.93dBi, CirD=12.72



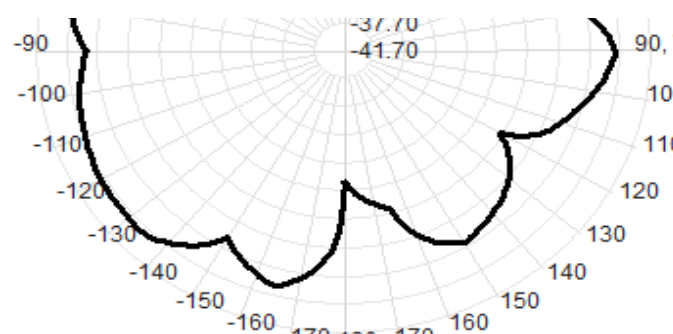


5190.0MHz H+V, Eff: 31.8%

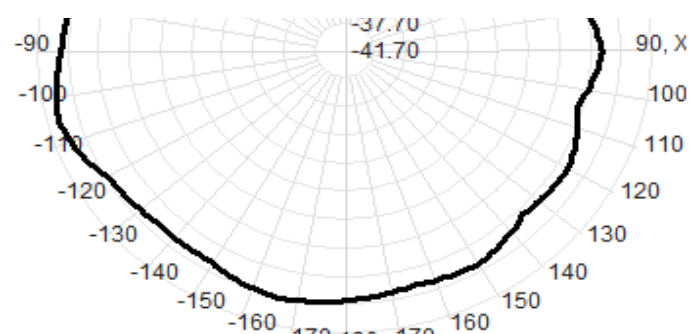
Back View



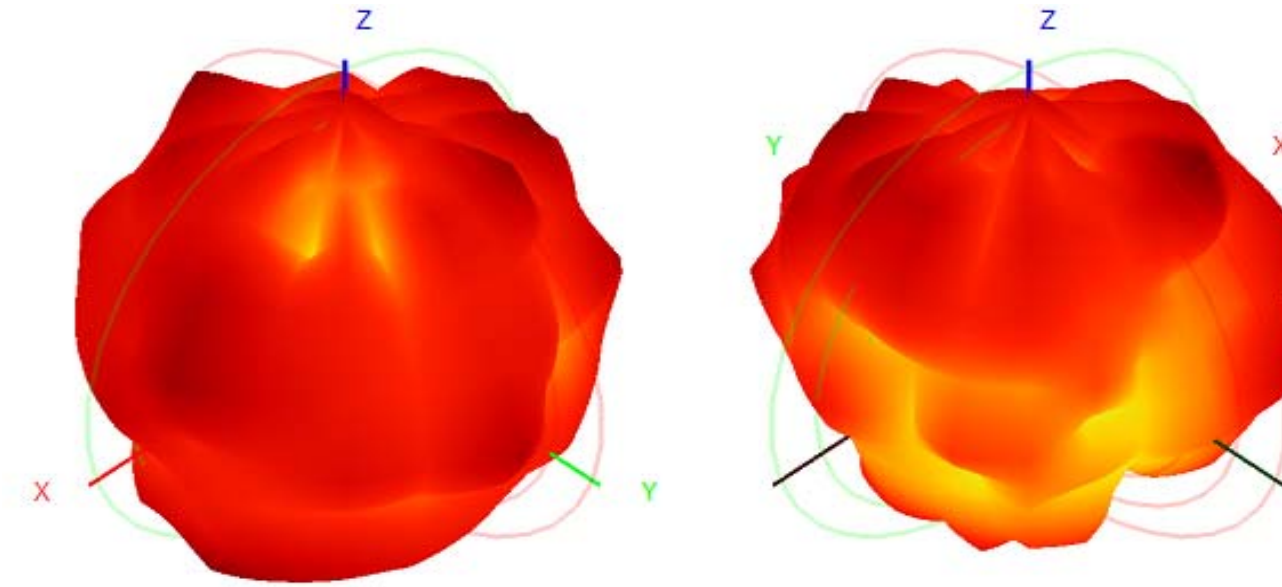
5190.0MHz Total(E1-XZ), Max=-1.29dBi



5190.0MHz Total(E2-YZ), Max=-2.18dBi

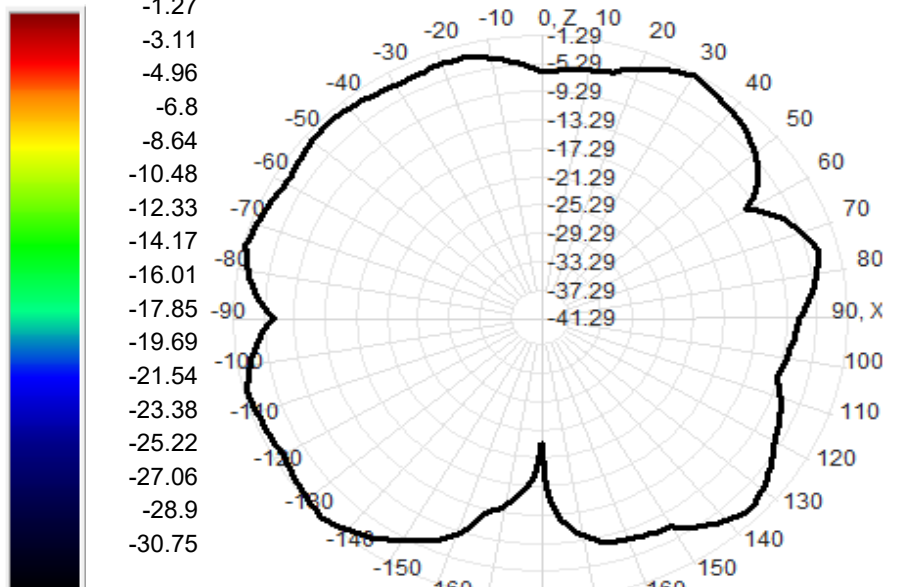


Total(H-XY), Max=-3.75dBi, CirD=8.16

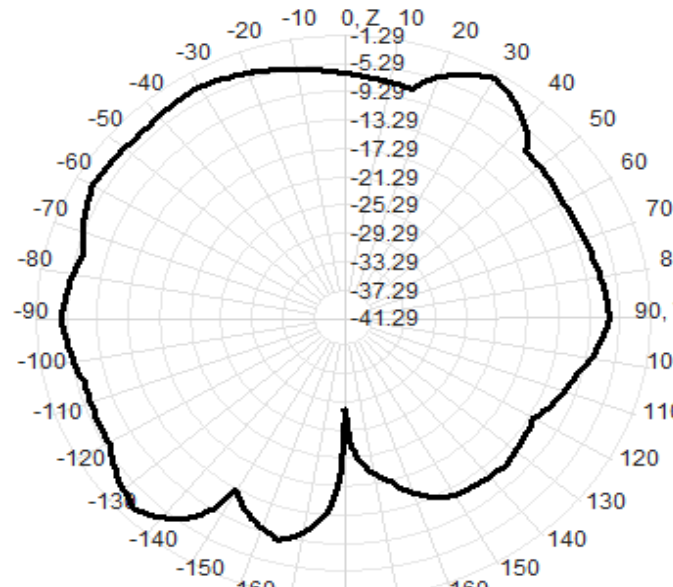


5191.0MHz H+V, Eff: 30.6%

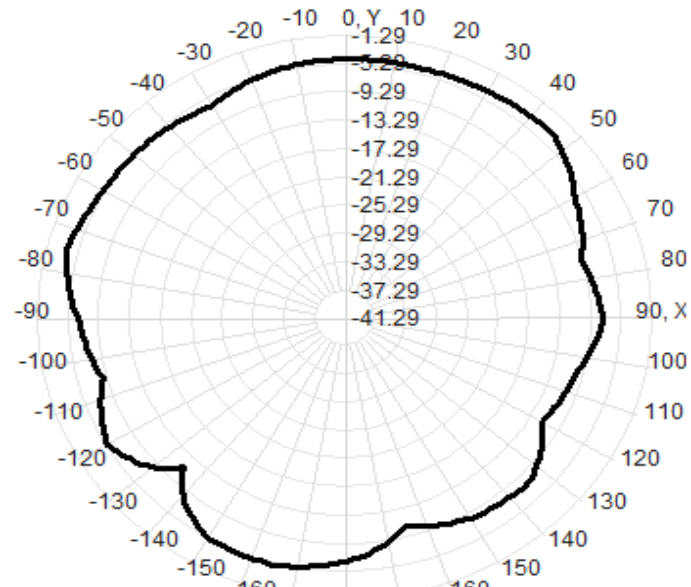
Back View



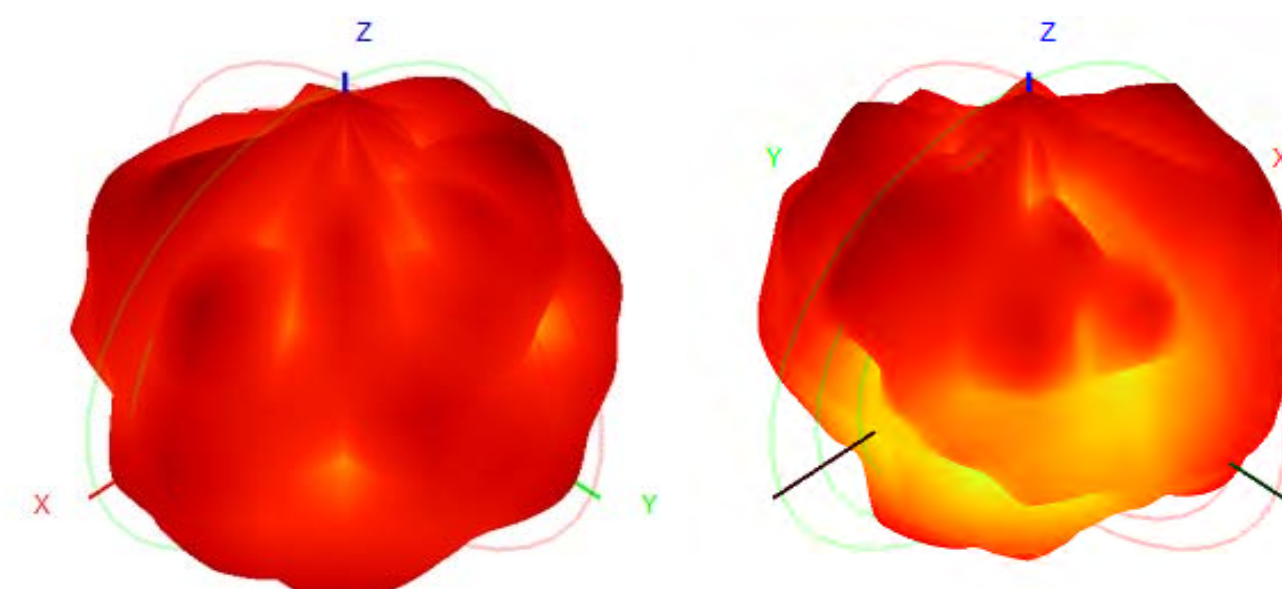
5191.0MHz Total(E1-XZ), Max=-0.40dBi



5191.0MHz Total(E2-YZ), Max=-1.92dBi

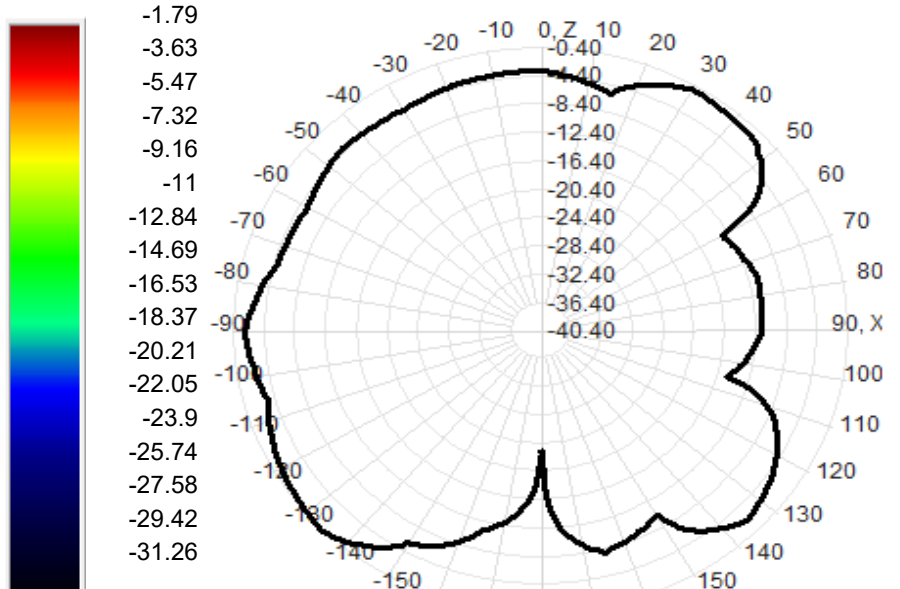


Total(H-XY), Max=-1.92dBi, CirD=17.09

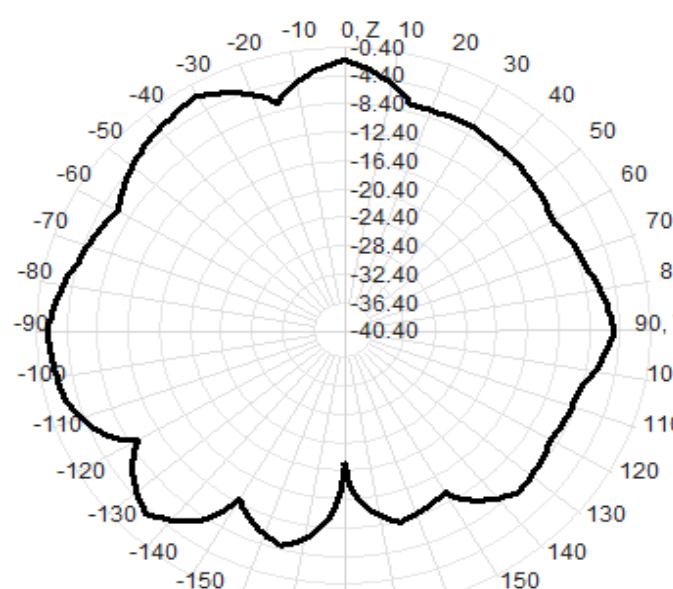


5192.0MHz H+V, Eff: 31.0%

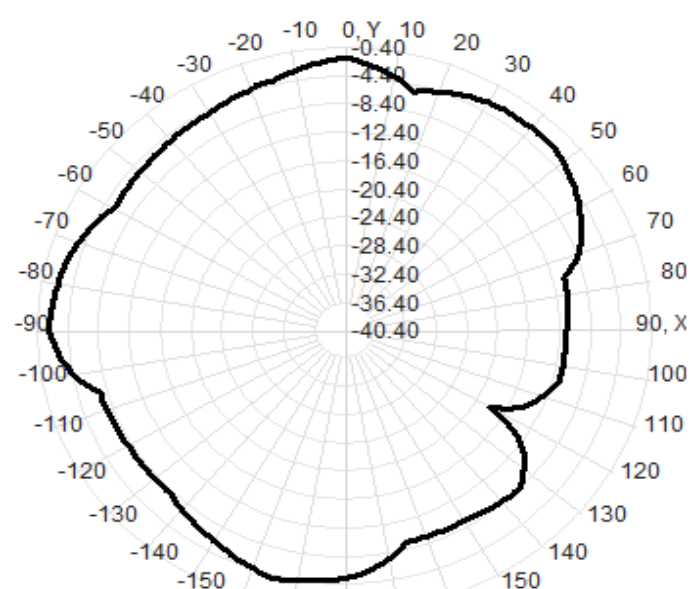
Back View



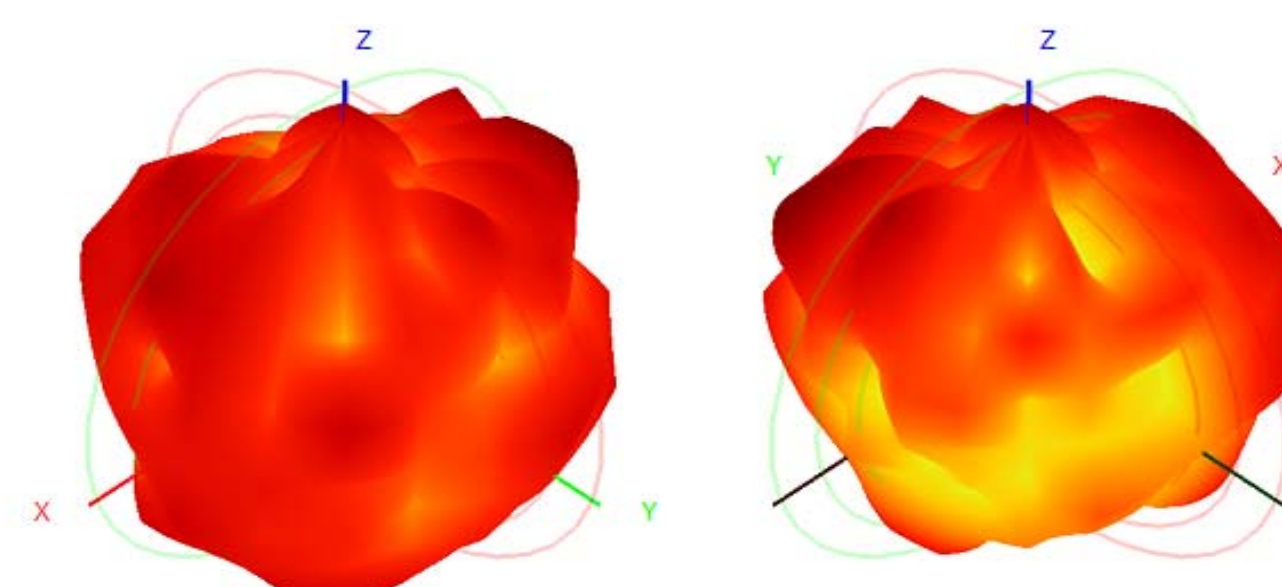
5192.0MHz Total(E1-XZ), Max=-0.29dBi



5192.0MHz Total(E2-YZ), Max=-1.27dBi

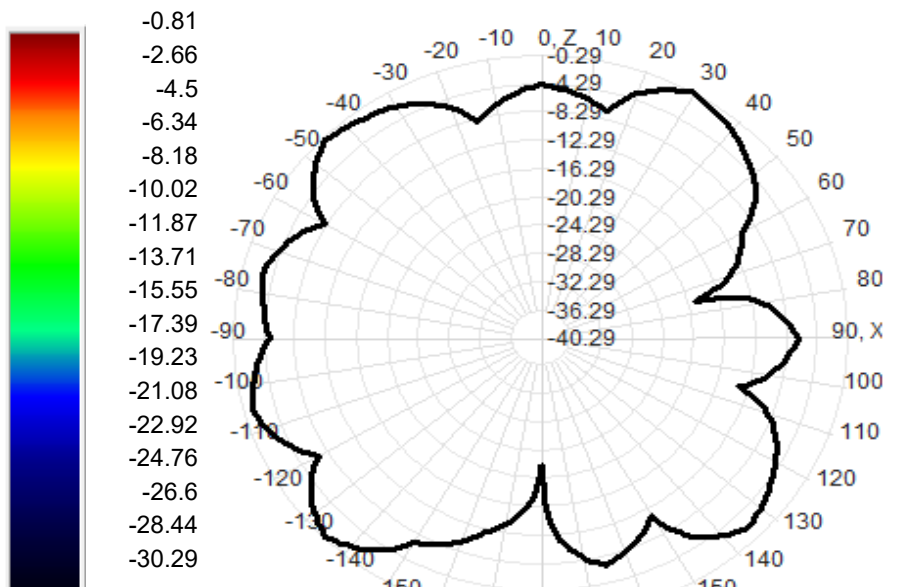


Total(H-XY), Max=-1.81dBi, CirD=12.55

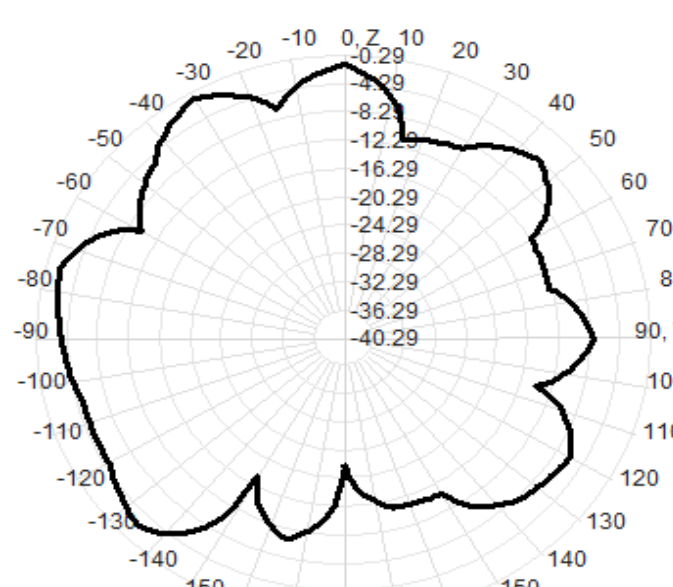


5193.0MHz H+V, Eff: 29.2%

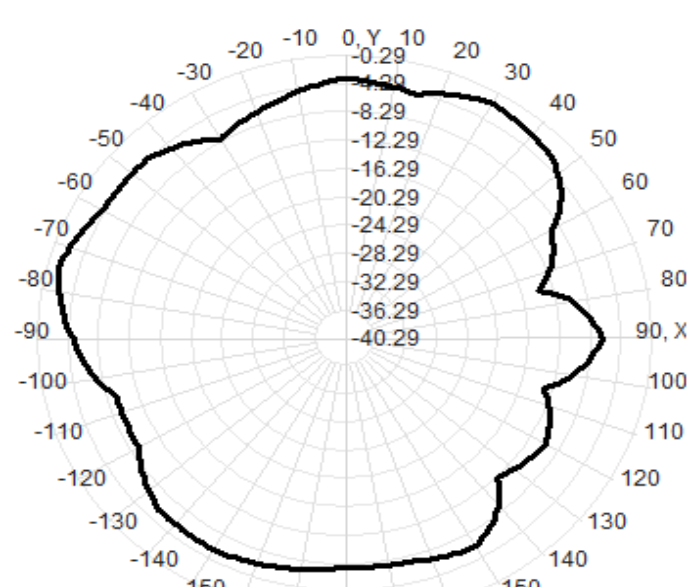
Back View



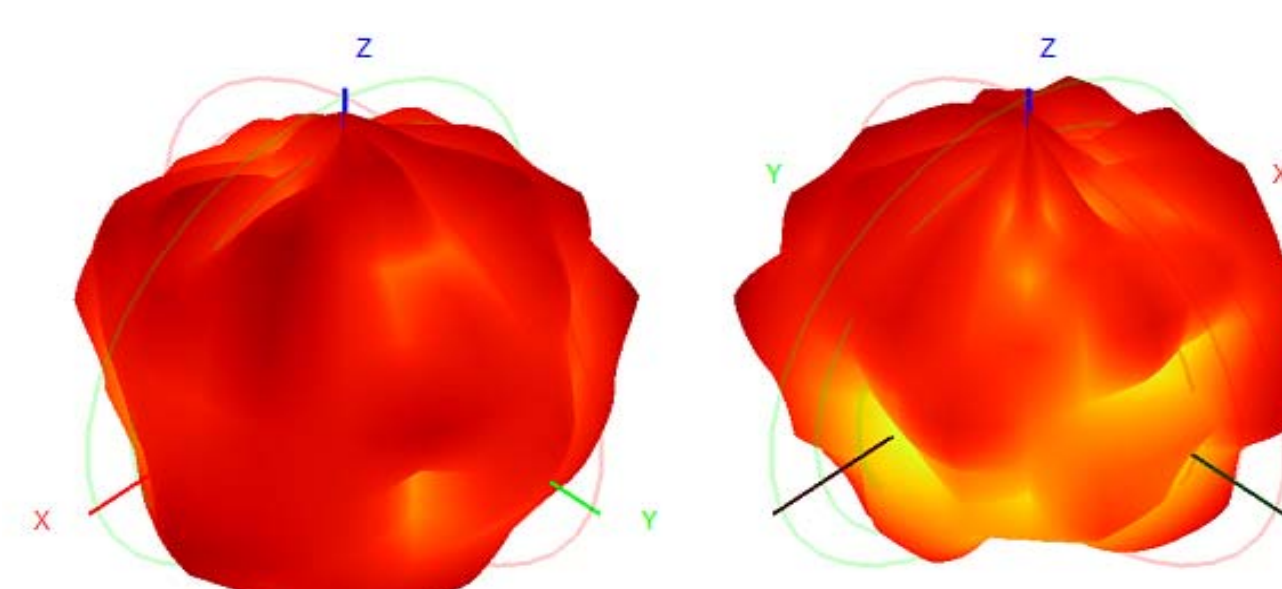
5193.0MHz Total(E1-XZ), Max=-0.05dBi



5193.0MHz Total(E2-YZ), Max=-3.68dBi

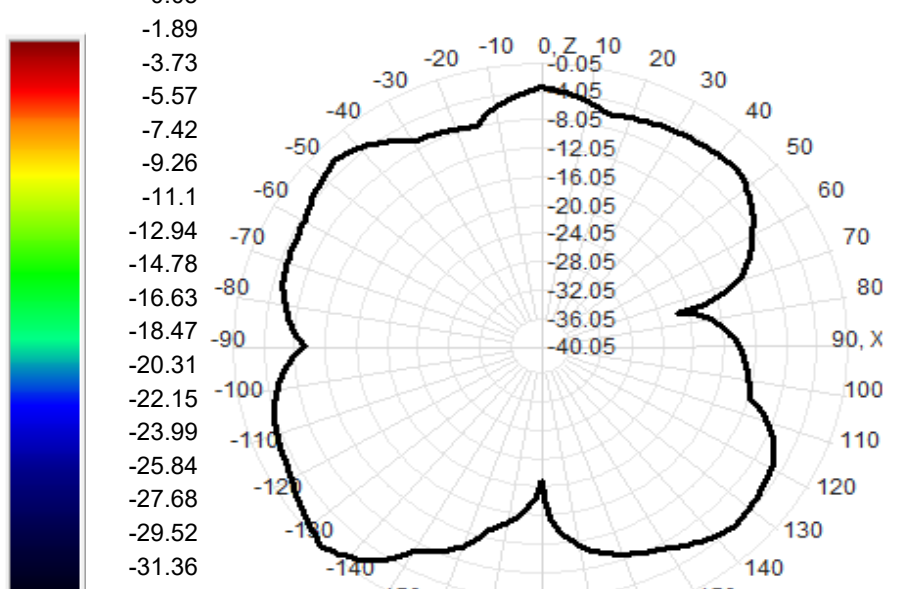


Total(H-XY), Max=-1.68dBi, CirD=15.01

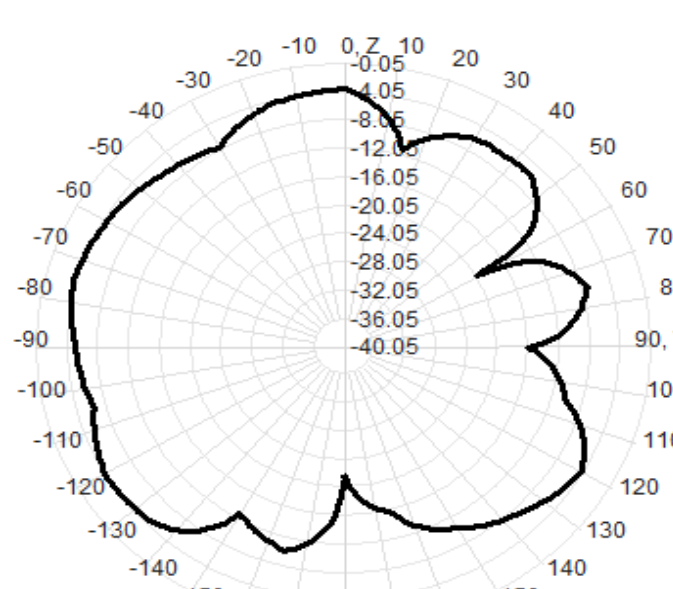


5194.0MHz H+V, Eff: 26.8%

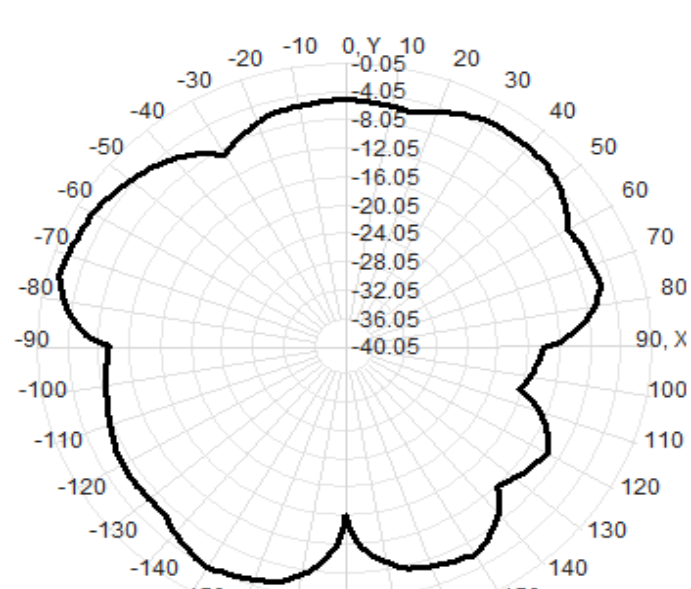
Back View



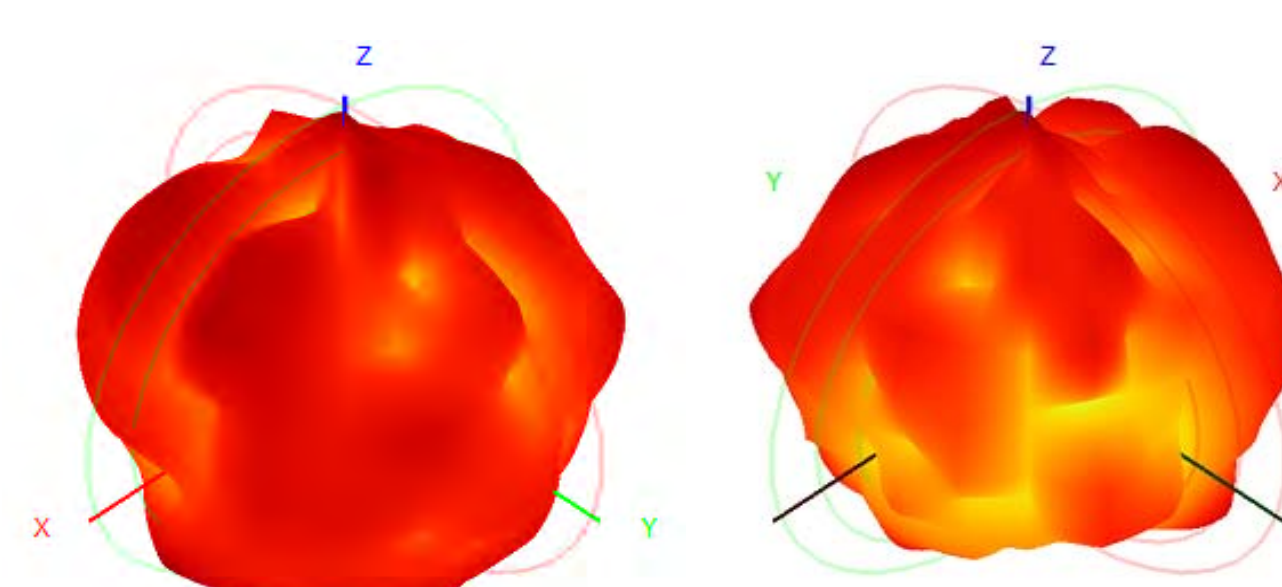
5194.0MHz Total(E1-XZ), Max=0.43dBi



5194.0MHz Total(E2-YZ), Max=-0.20dBi

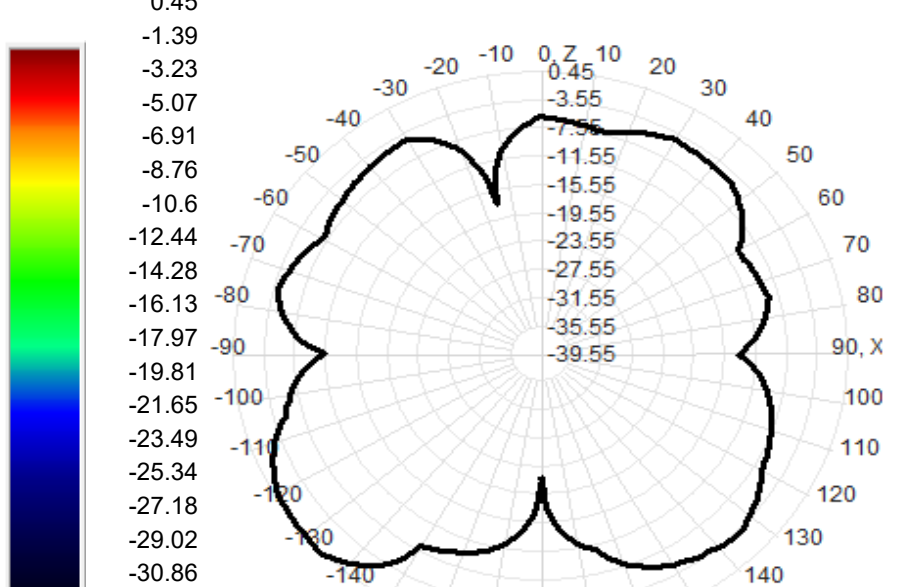


Total(H-XY), Max=-4.20dBi, CirD=9.76

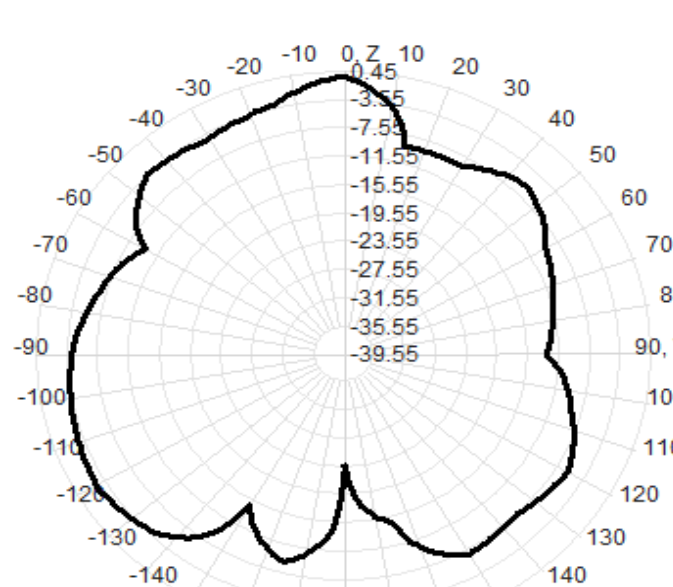


5195.0MHz H+V, Eff: 29.2%

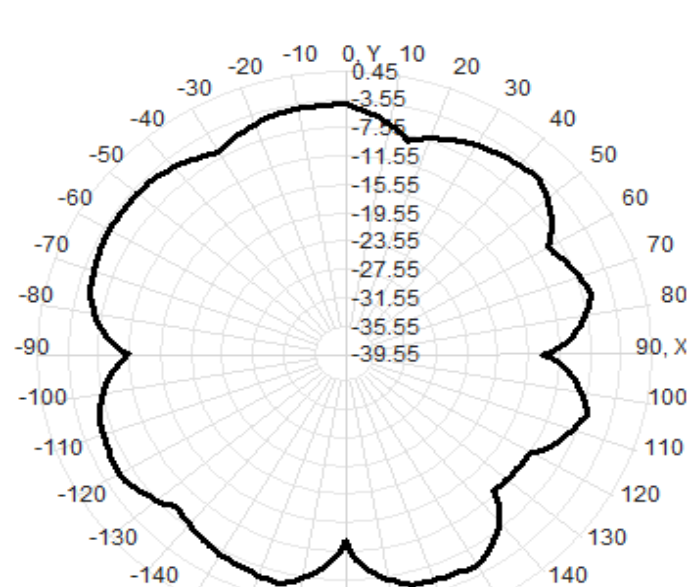
Back View



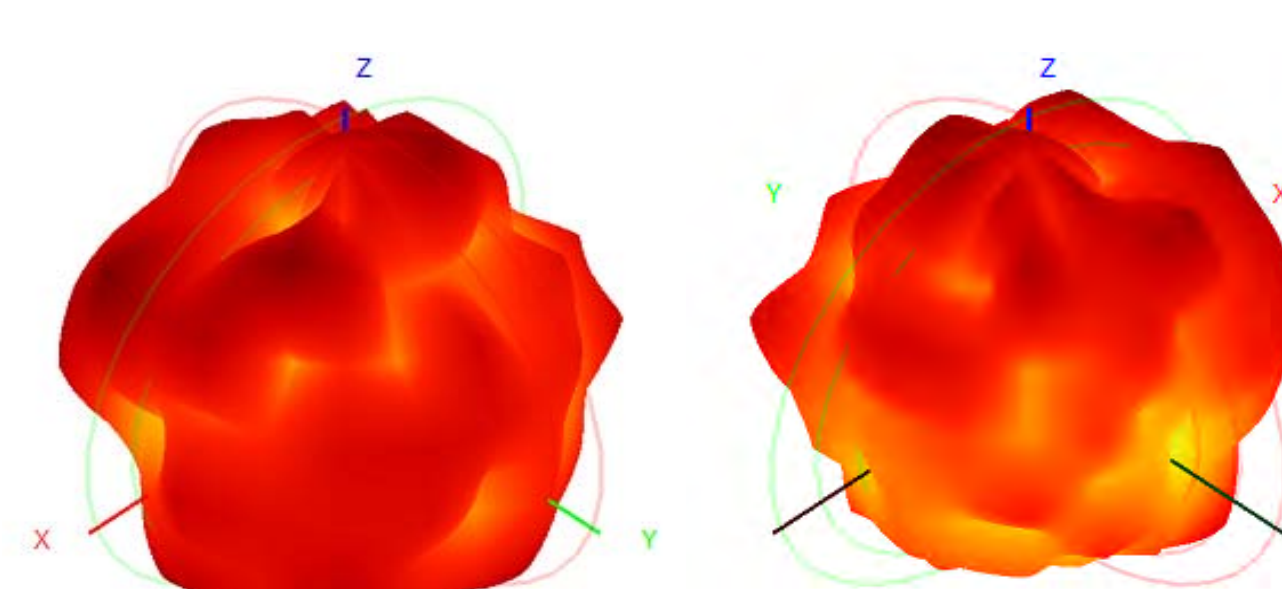
5195.0MHz Total(E1-XZ), Max=-0.41dBi



5195.0MHz Total(E2-YZ), Max=-1.00dBi

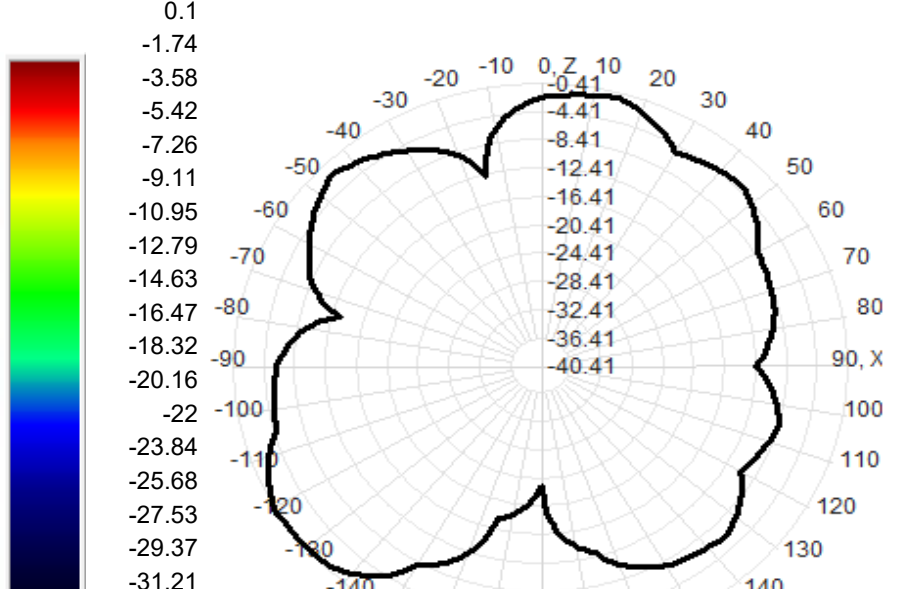


Total(H-XY), Max=-2.24dBi, CirD=12.30

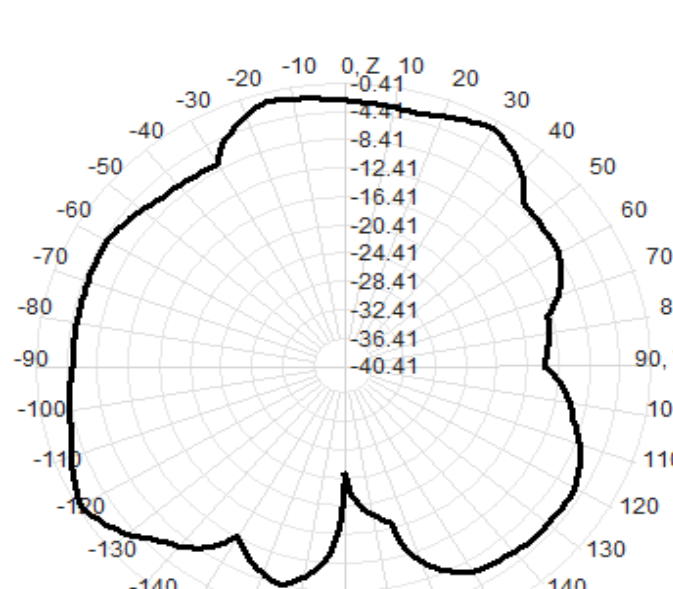


5196.0MHz H+V, Eff: 30.1%

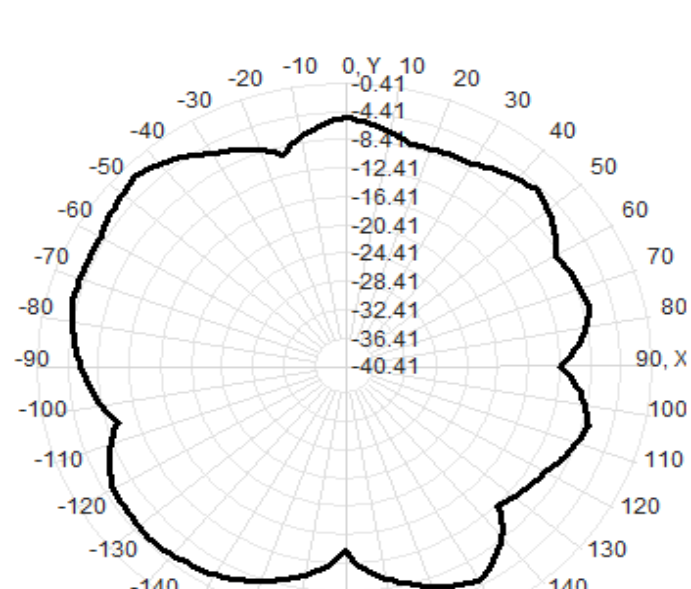
Back View



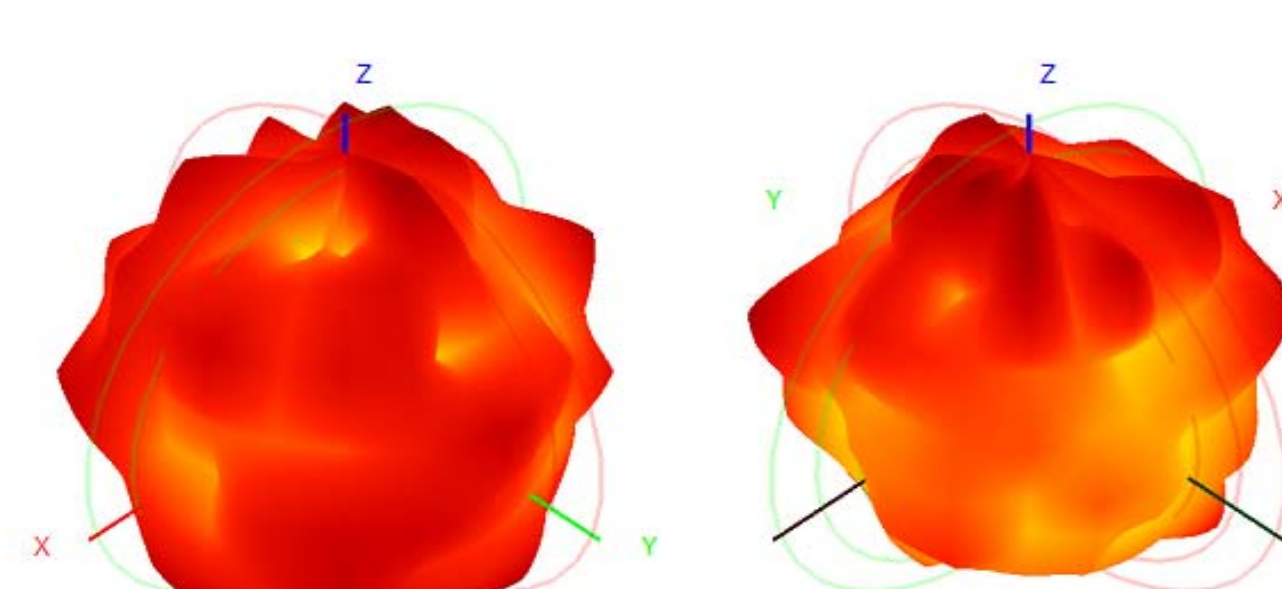
5196.0MHz Total(E1-XZ), Max=0.11dBi



5196.0MHz Total(E2-YZ), Max=-0.20dBi

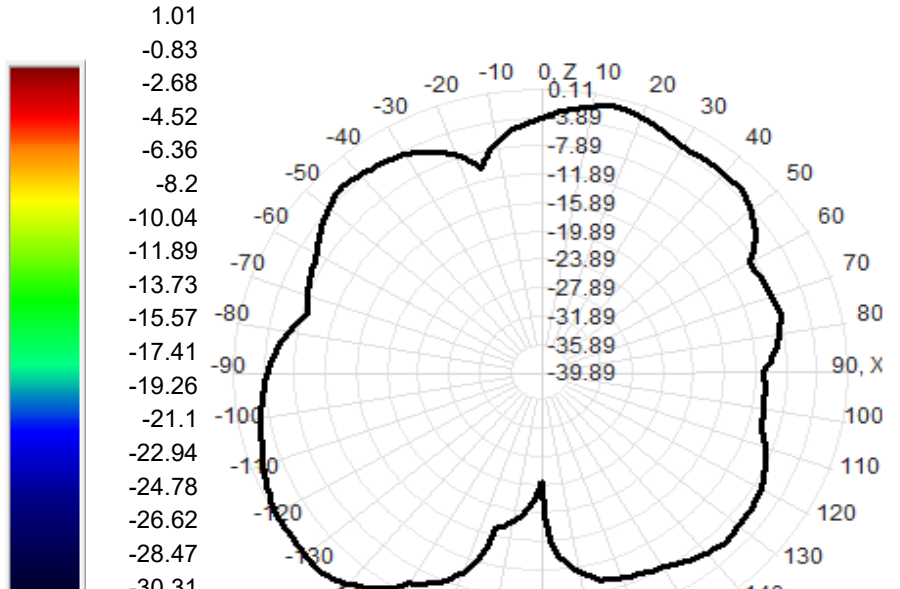


Total(H-XY), Max=-1.40dBi, CirD=9.01

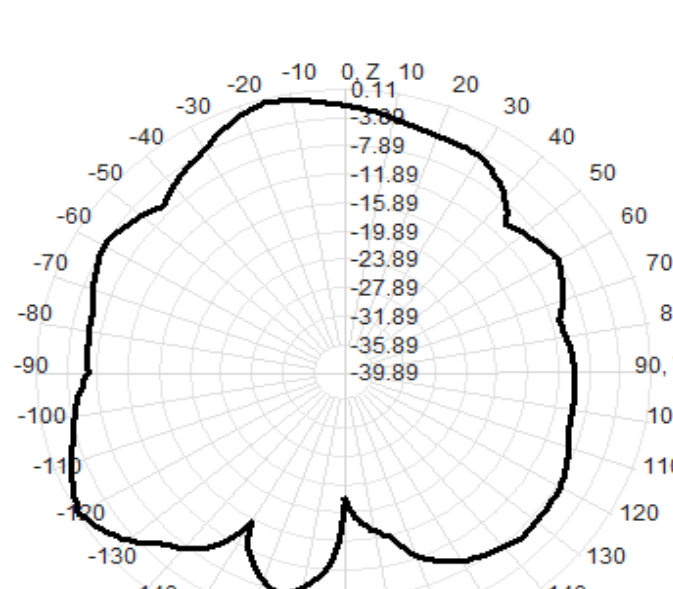


5197.0MHz H+V, Eff: 31.1%

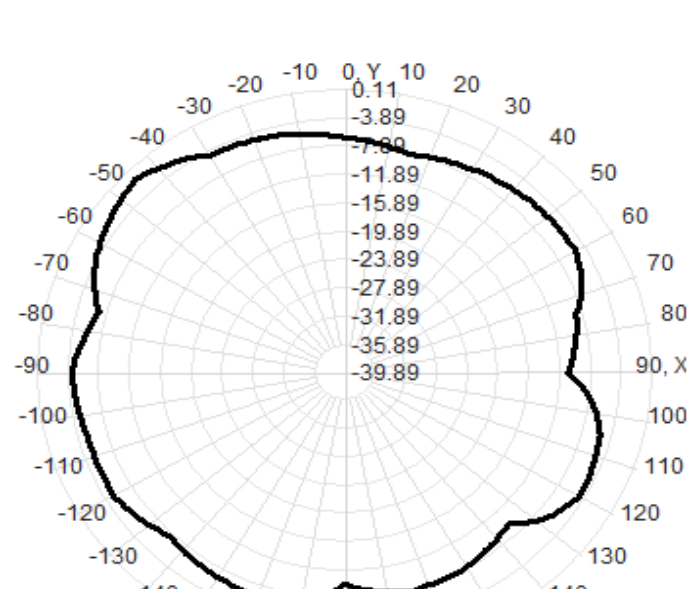
Back View



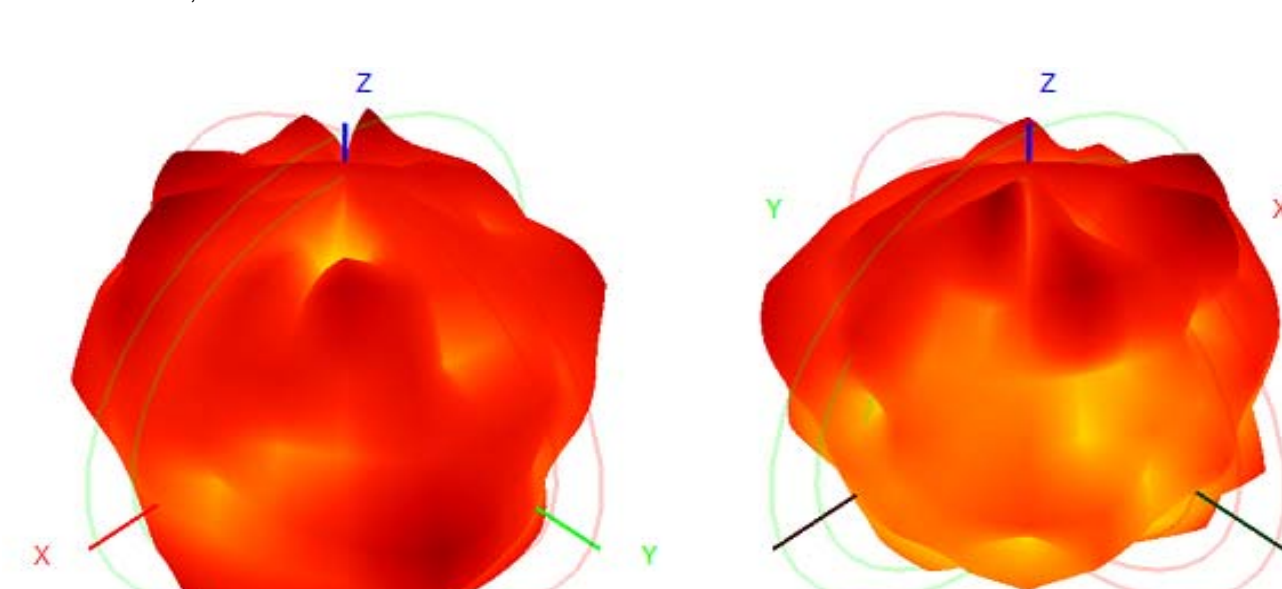
5197.0MHz Total(E1-XZ), Max=-1.11dBi



5197.0MHz Total(E2-YZ), Max=-2.74dBi

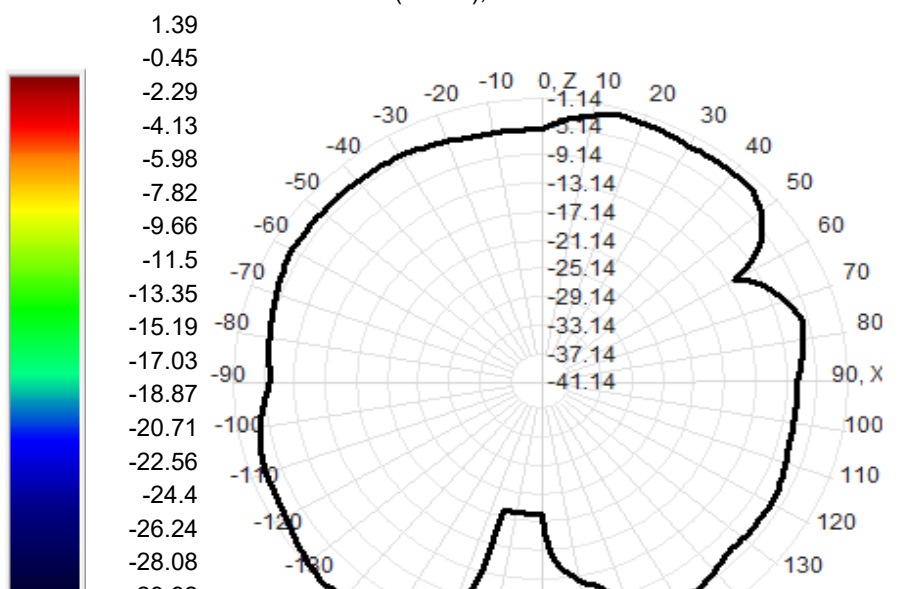


Total(H-XY), Max=-1.40dBi, CirD=10.32

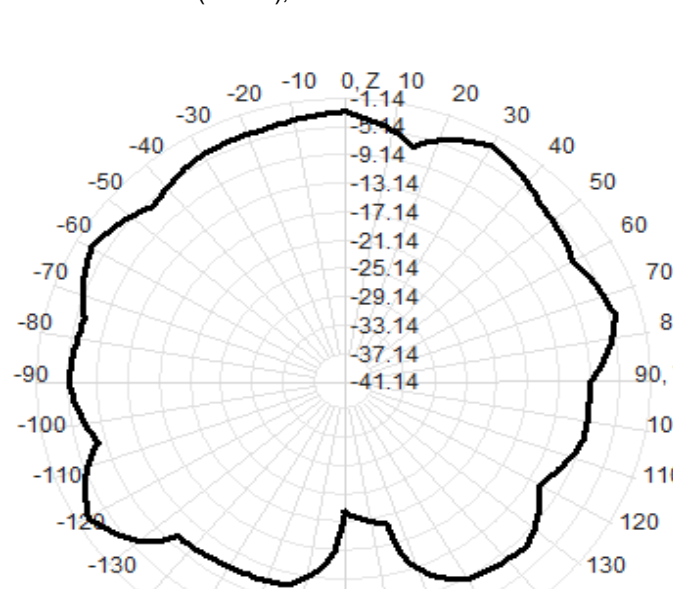


5198.0MHz H+V, Eff: 28.0%

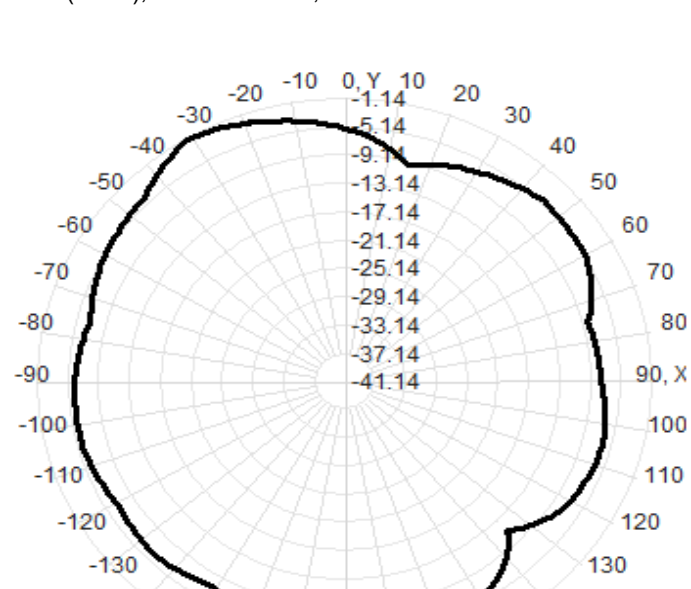
Back View



5198.0MHz Total(E1-XZ), Max=0.00dBi



5198.0MHz Total(E2-YZ), Max=-2.20dBi



Total(H-XY), Max=-2.20dBi, CirD=10.02

