SPECIFICATION FOR APPROVAL

CUST OMER: Granwin IoT Technology (Guangzhou) Co.,Ltd

PART NAME: 2.4G BLE Antenna

Edition: 1.0

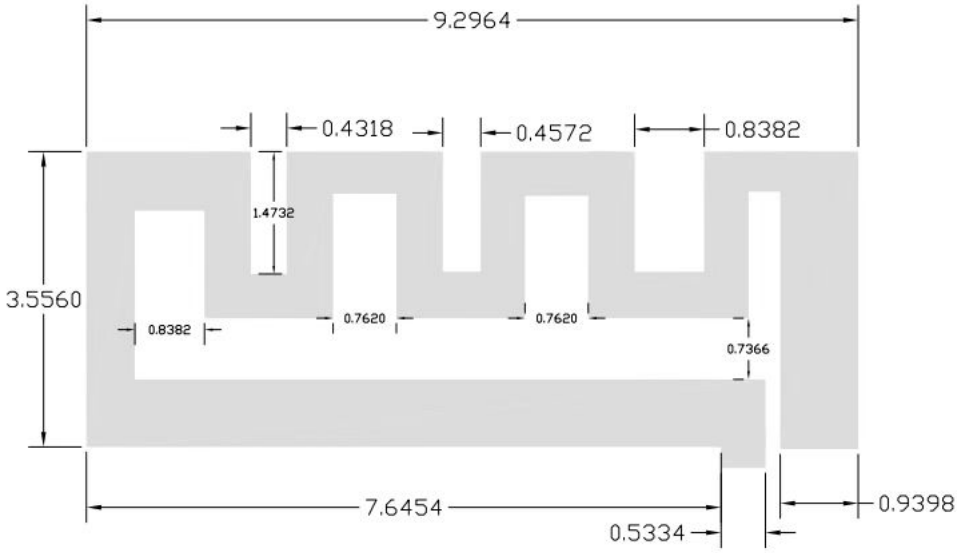
Editor	Jacky Huang	2024/12/13
Verifier	Feng Li	2024/12/13
Approver	Steven Xu	2024/12/13

Granwin IoT Technology (Guangzhou) Co.,Ltd

Address: Room 801, Building C, Runhui Science and Technology Park, Huangpu District, Guangzhou City

Product specification

1 Antenna Dimension

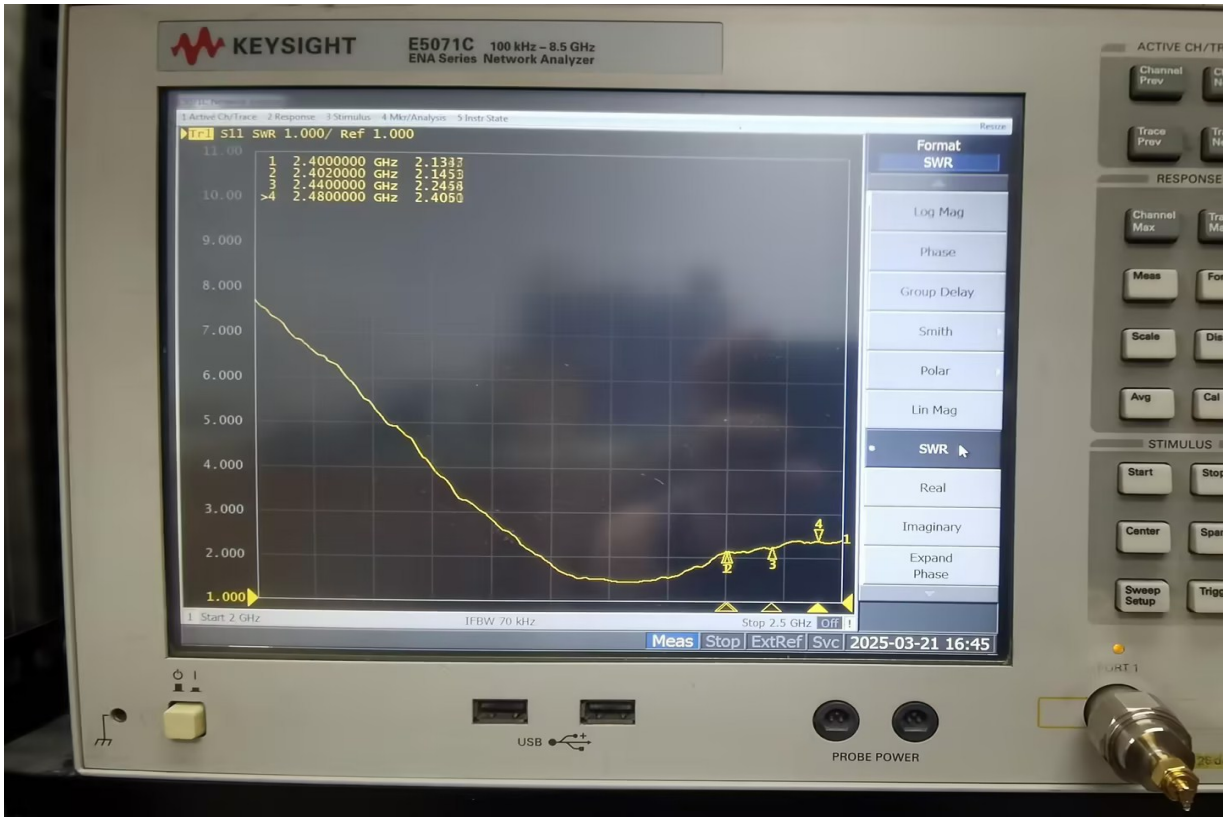


2 Performance parameter

Name	2.4G BLE Antenna
Model Type	PCB Print Antenna
ELECTRICAL SPECTFICATIONS	
Frenquency Range	2400-2500MHz
Band Width	100MHz
Impedance	50Ω
VSWR	<2.0
Max Gain	0dBi
Polarization	Vertical/Horizontal
Radiation	Omnidirectional
Power	50 W
MECHANICAL SPECTFICATIONS	

Connector	Welding type
Working Temperature	-40℃-+85℃
Limit Temperature	-40℃-+125℃

3 VSWR



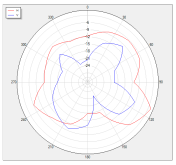
4 Passive test data:

Passive test of the 2.4G Bluetooth module, with an angle of 3D 22.5°, and a frequency range of 2.3GHz - 2.5GHz			
Version	AGT_2.5.2.07		
Frequency	Effic	Percen	Gain
2300	-7.29984	18.62155%	-1.12622
2310	-7.37428	18.30508%	-1.26217

2320	-7.46303	17.93481%	-1.40294
2330	-7.36182	18.35771%	-1.26257
2340	-7.24993	18.83679%	-1.12548
2350	-7.23253	18.9124%	-1.0777
2360	-7.53339	17.64661%	-1.34703
2370	-7.5767	17.4715%	-1.43719
2380	-7.46404	17.93063%	-1.35612
2390	-7.37054	18.32085%	-1.27105
2400	-7.32999	18.49273%	-1.20553
2410	-7.18542	19.11868%	-0.94505
2420	-7.12792	19.37348%	-0.73896
2430	-7.13559	19.33929%	-0.65863
2440	-6.91866	20.32985%	-0.34065
2450	-6.83394	20.73033%	-0.26785
2460	-6.73728	21.19688%	-0.19208
2470	-6.71746	21.29382%	-0.16145
2480	-6.65285	21.61299%	-0.17219
2490	-6.58922	21.93197%	-0.09976
2500	-6.48774	22.45049%	0.00327

5 Radiation Pattern

2300P0 Polar



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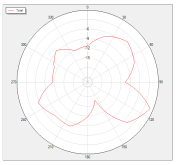

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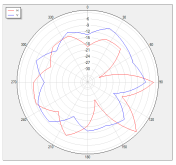

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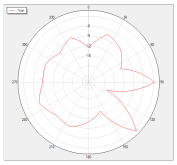

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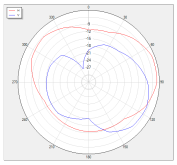

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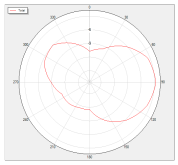

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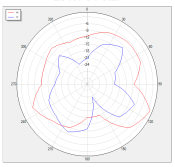

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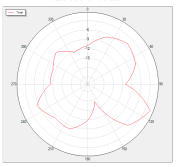

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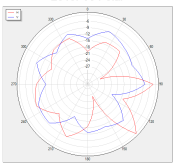

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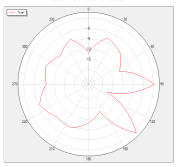

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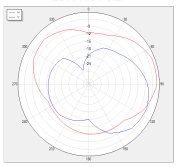

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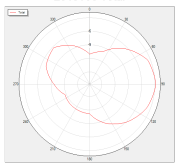

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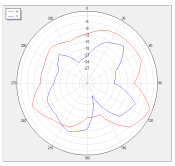

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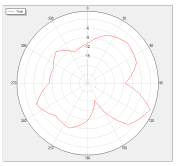

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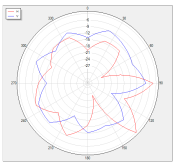

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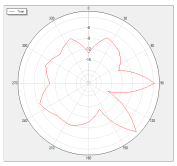

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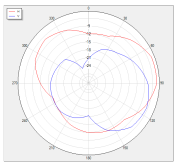

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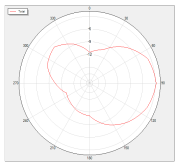

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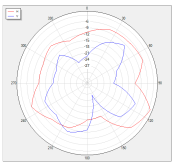

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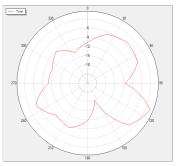

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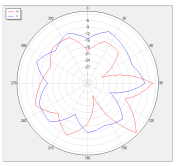

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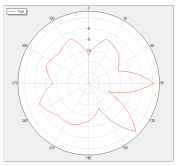

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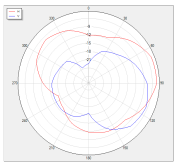

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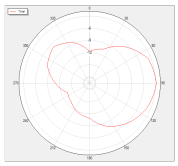

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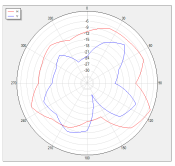

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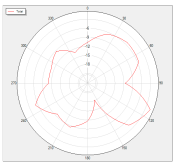

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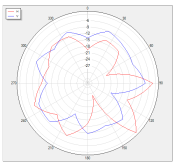

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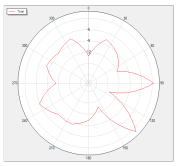

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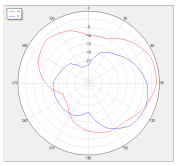

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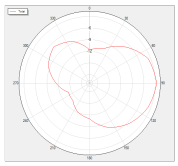

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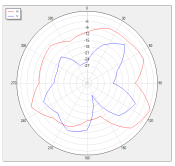

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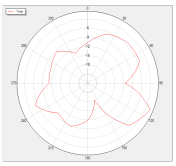

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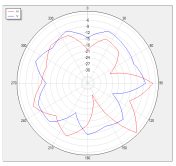

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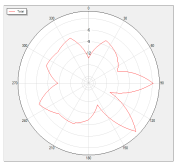

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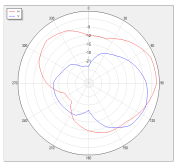

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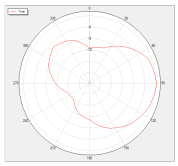

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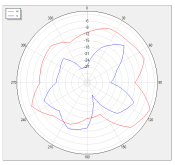

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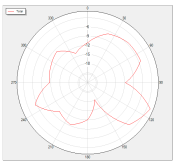

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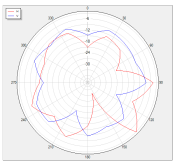

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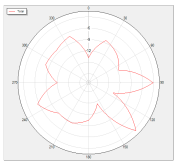

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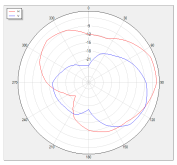

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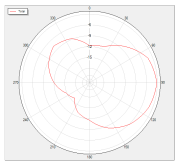

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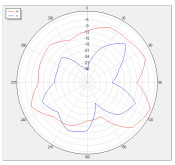

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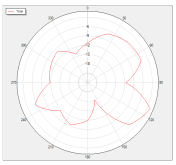

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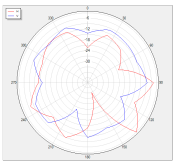

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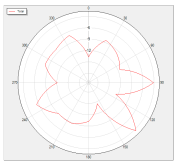

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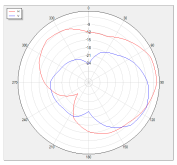

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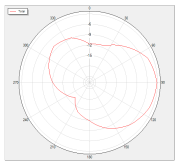

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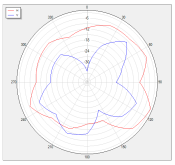

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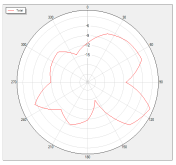

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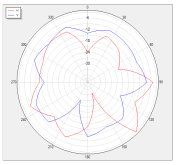

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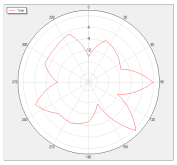

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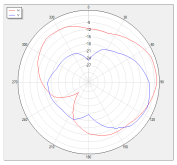

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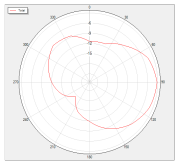

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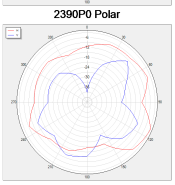

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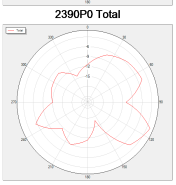

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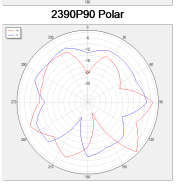

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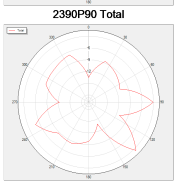

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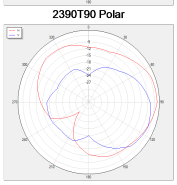

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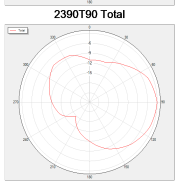

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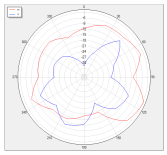

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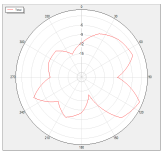

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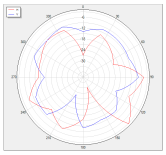

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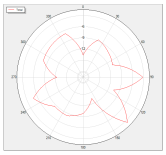

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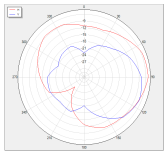

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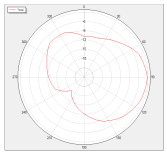

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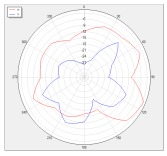

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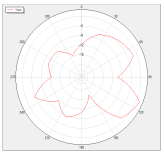

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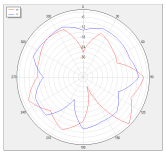

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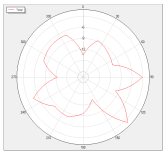

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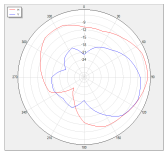

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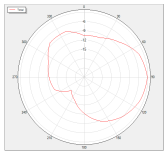

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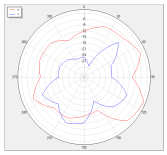

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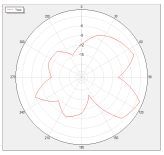

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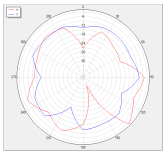

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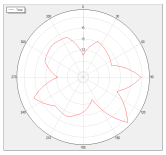

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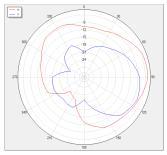

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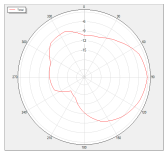

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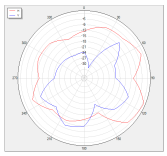

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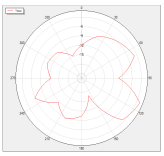

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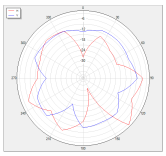

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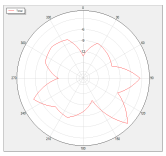

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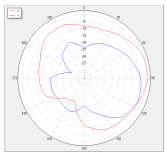

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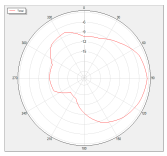

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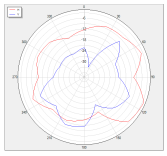

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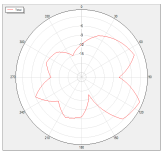

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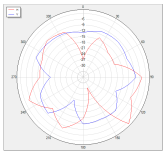

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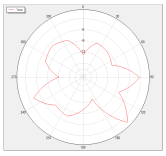

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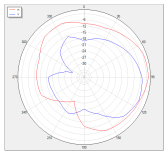

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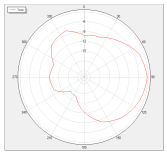

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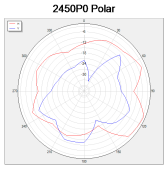

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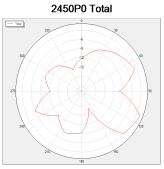

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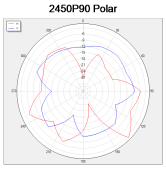

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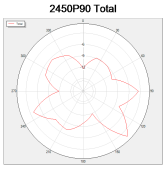

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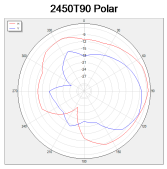

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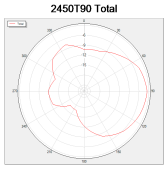

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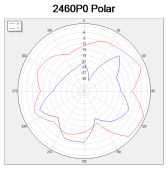

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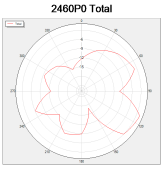

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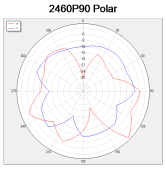

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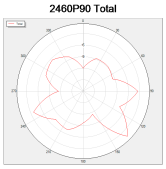

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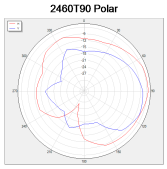

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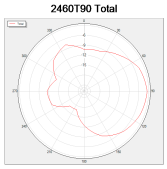

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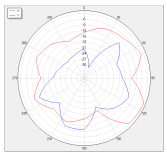

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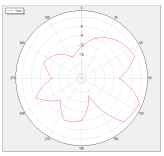

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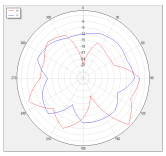

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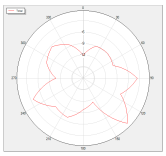

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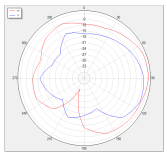

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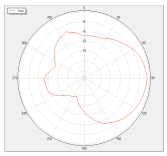

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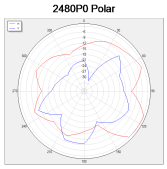

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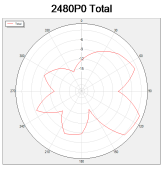

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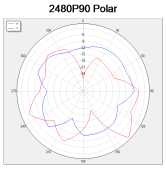

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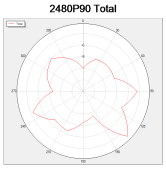

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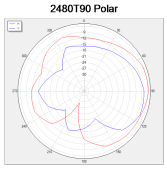

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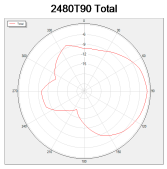

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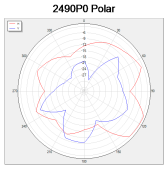

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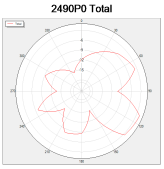

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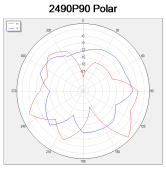

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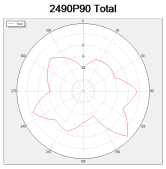

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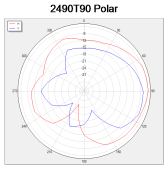

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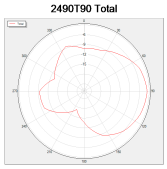

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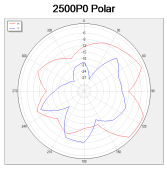

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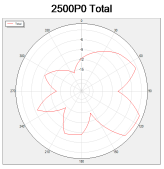

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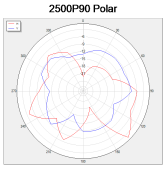

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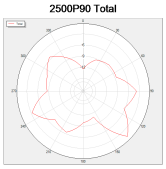

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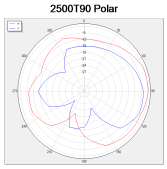
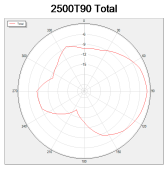
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