

	Mercedes BT/WLAN Antenna -confidential-	PDA Antenna Engineering Date: 23.05.22 Version: 1.0 Status:
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Data Sheet Mercedes BT/WLAN Antenna

A1779052902
920-584-002

	Mercedes BT/WLAN Antenna -confidential-	PDA Antenna Engineering Date: 23.05.22 Version: 1.0 Status:
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	Name, Department	Erstellt	Version
Author	Kevin Kuder, PDA	23.05.2022	1.0
Approval			

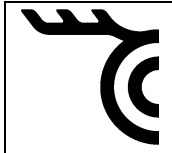
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1 Change Index

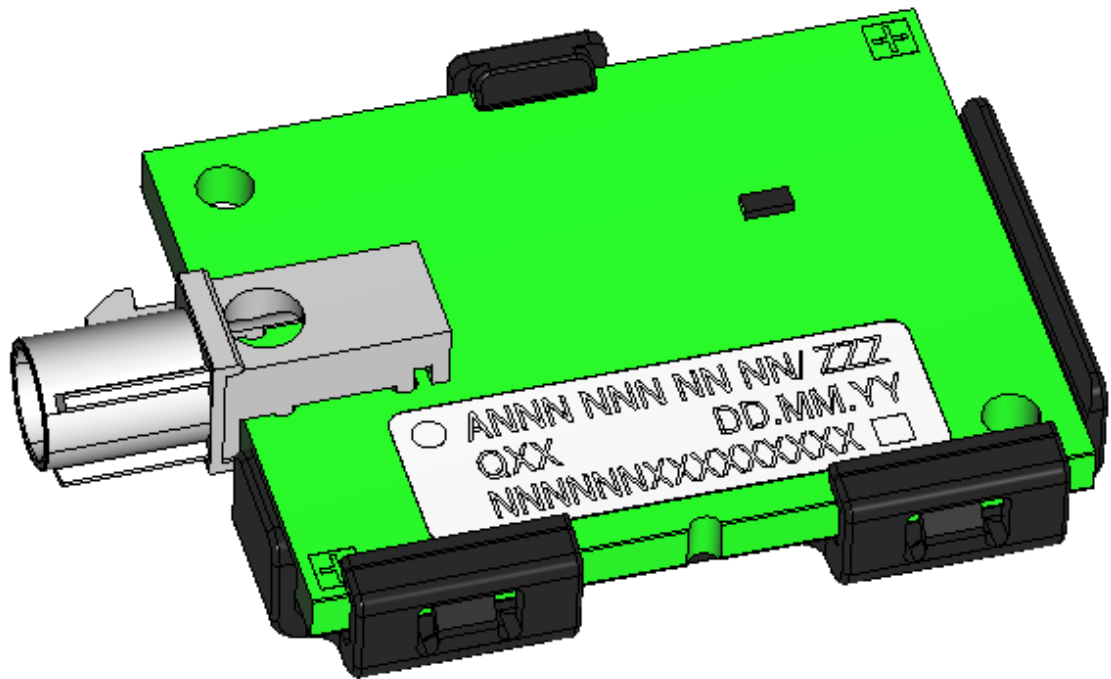
Date	Section	Changed	Author	Revision
23.05.22		Created	Kuder	1.0



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2 Data Sheet

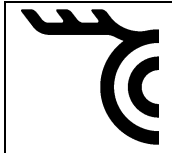


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2.1 Antenna Parameters

Measured in free space

Connector type	FAKRAm, C
Frequency range	2400 – 2483.5 MHz 5150 – 5850 MHz
Average gain Theta = 0 – 45°, Phi = 0 – 360°	-1.5 dBi @ 2400 – 2483.5 MHz 1.4 dBi @ 5150 – 5850 MHz
Total peak gain Theta 0 - 180°, Phi 0 - 360°	-0.3 dBi @ 2400 – 2483.5 MHz 5.0 dBi @ 5150 – 5850 MHz

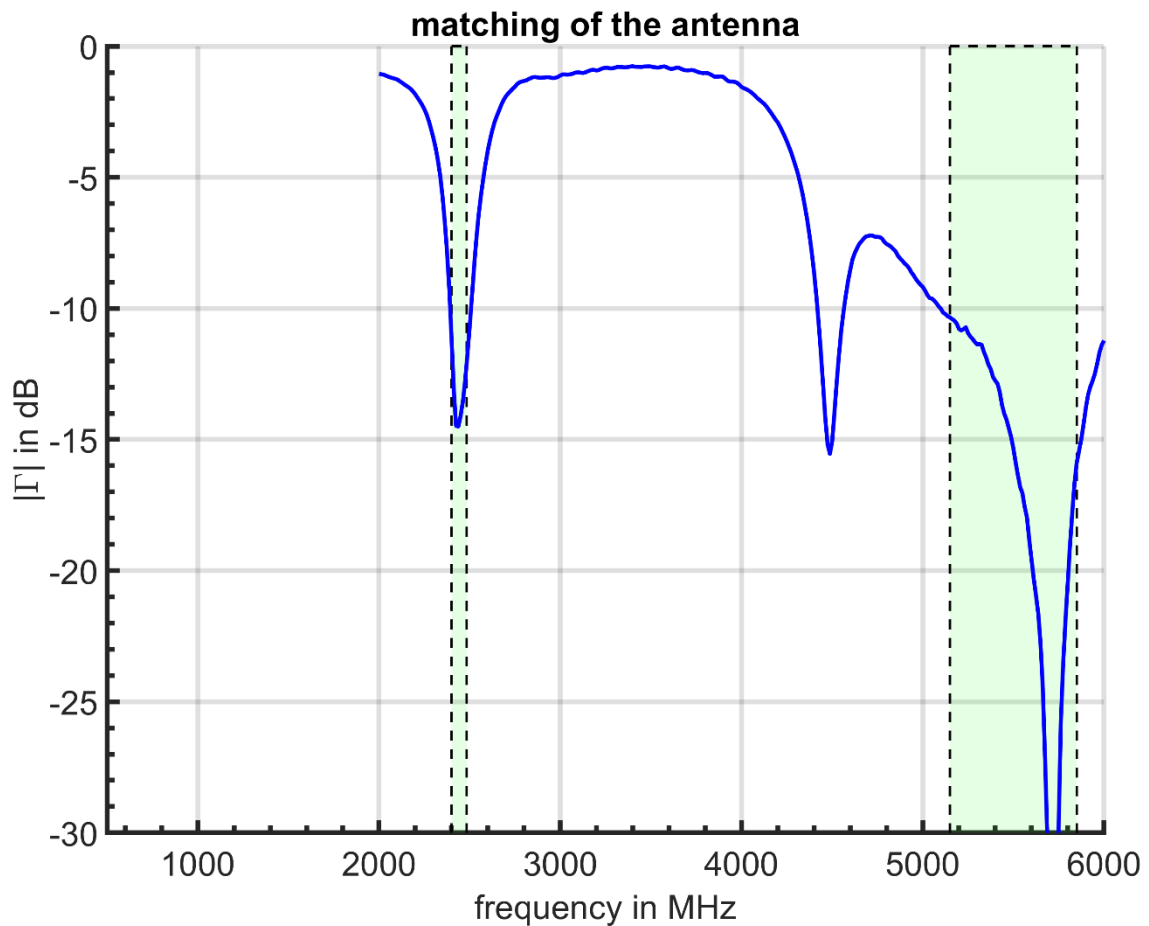


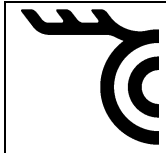
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2.2 Return Loss (S11)

Measured in free space



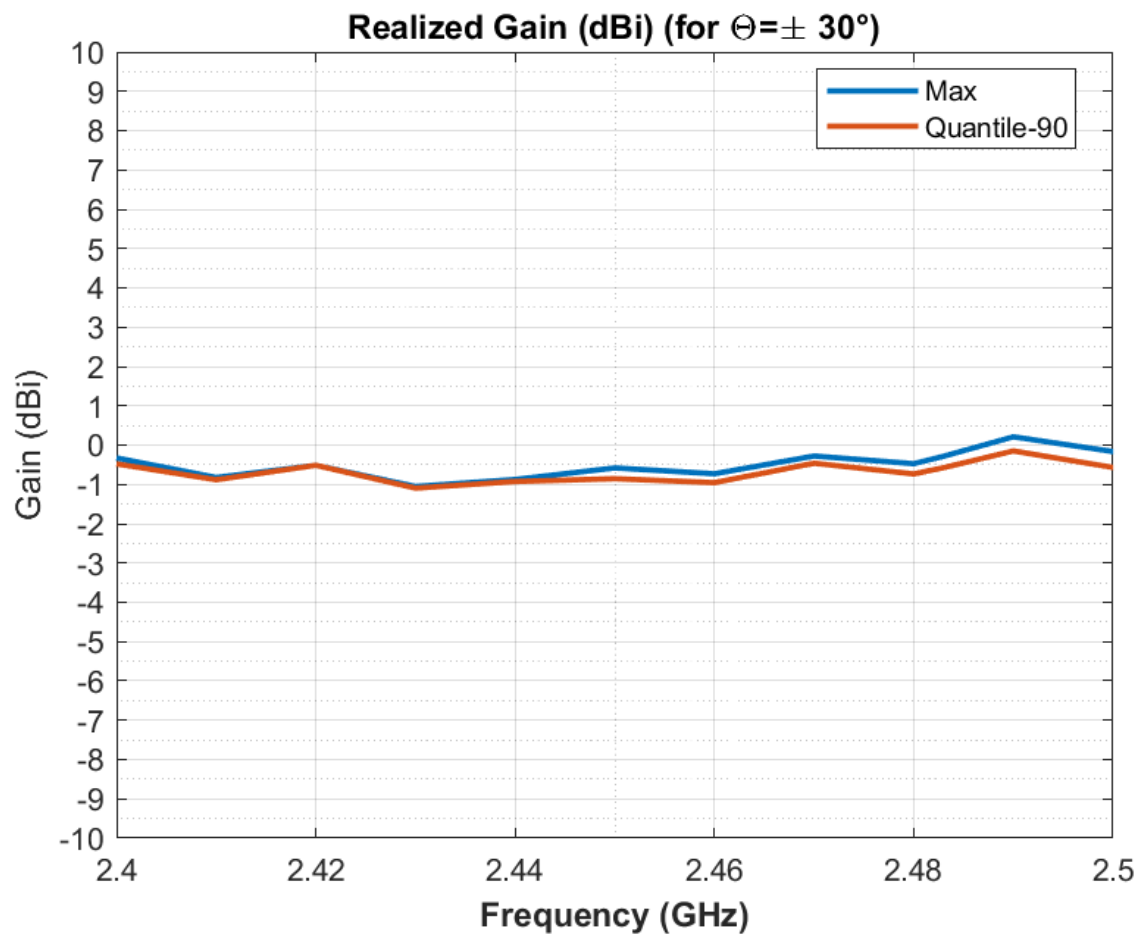


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2.3 Gain

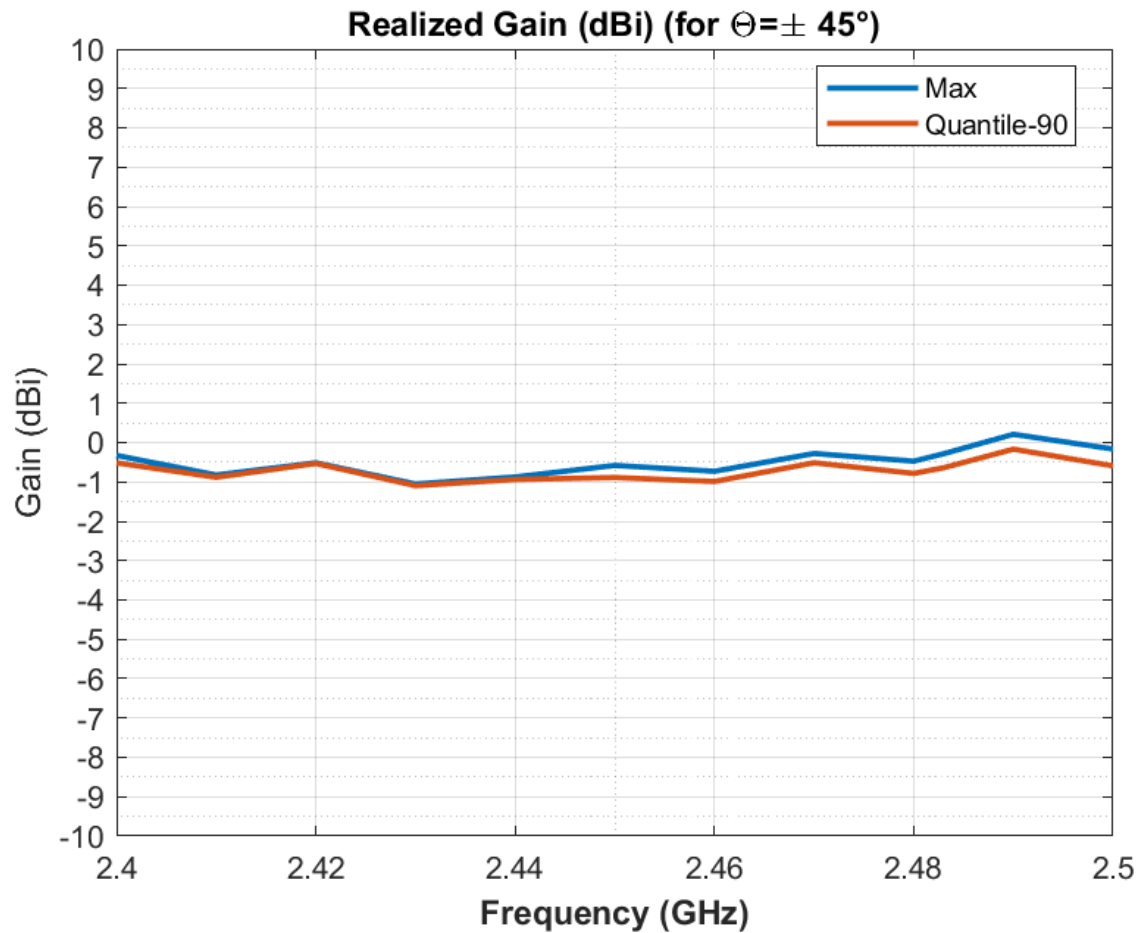
Measured in free space





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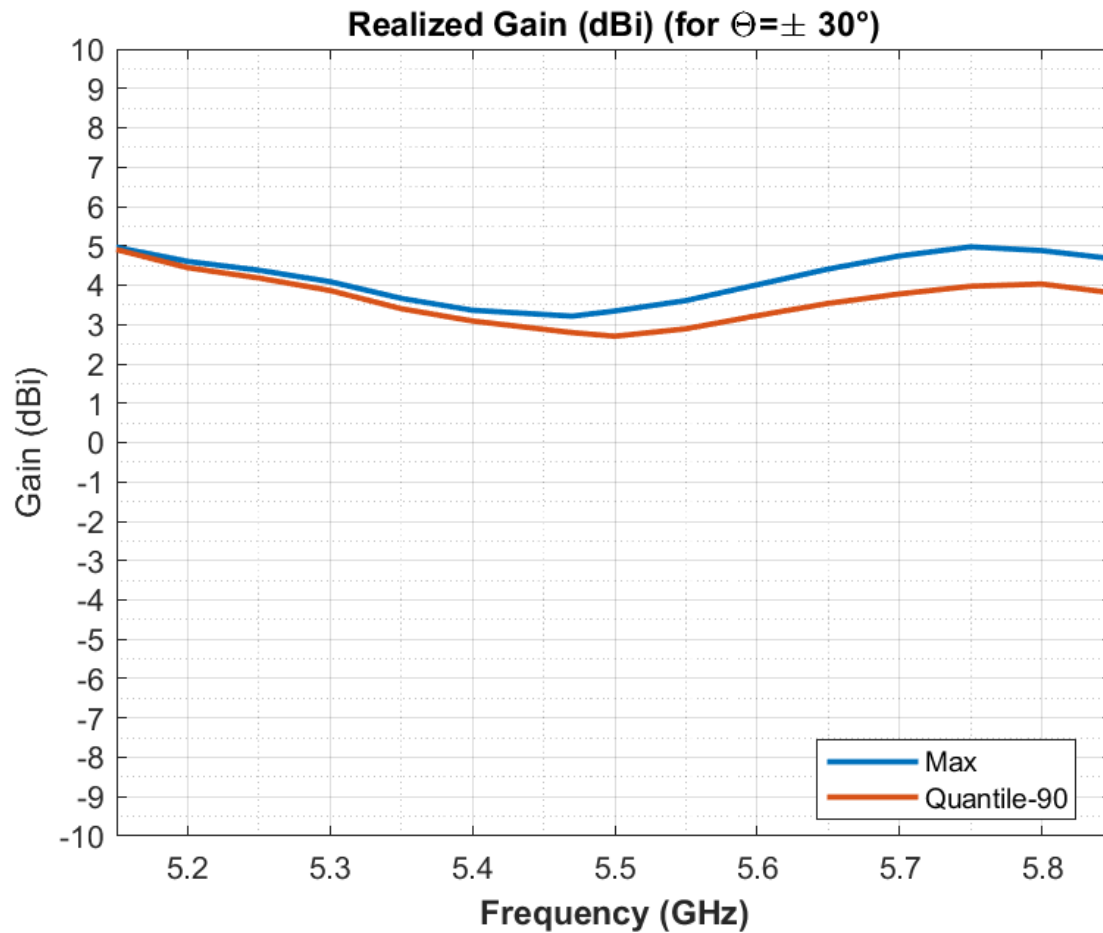
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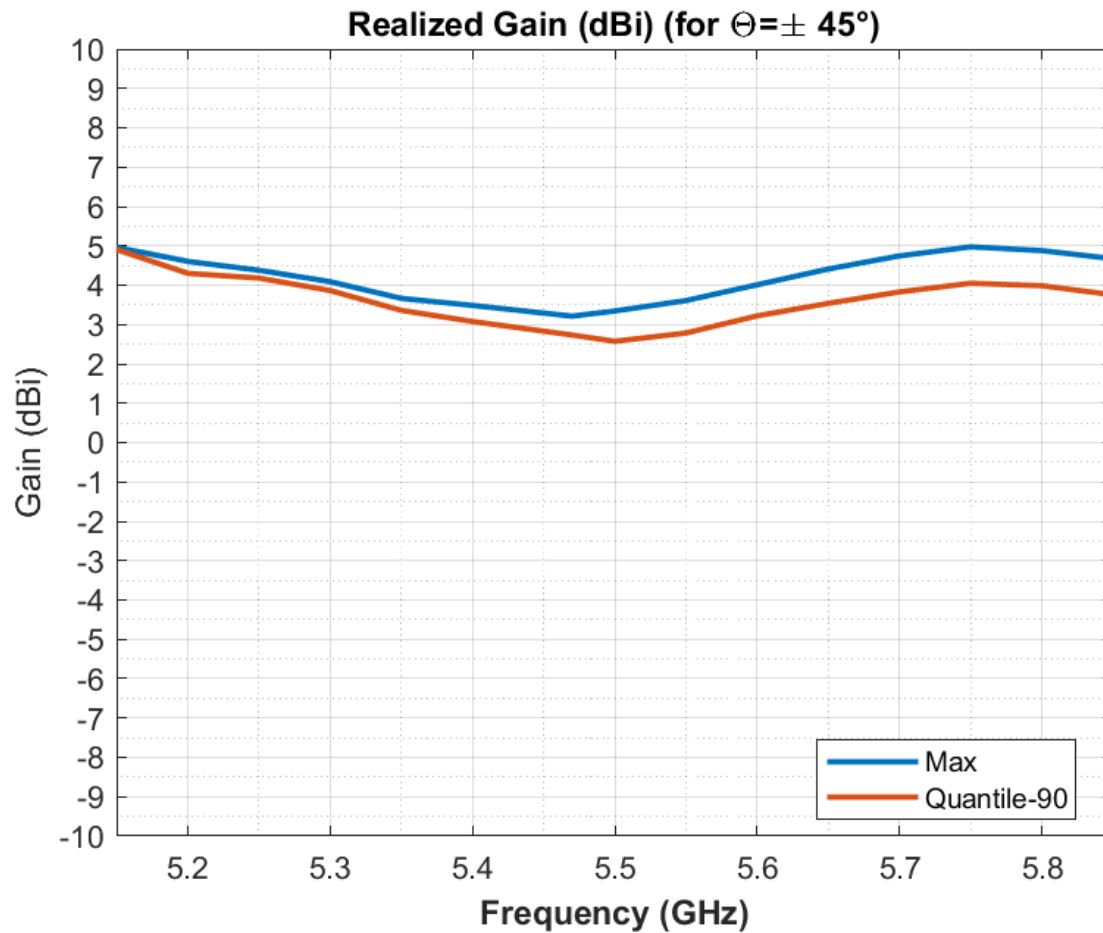
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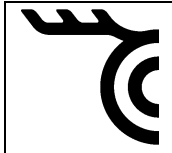




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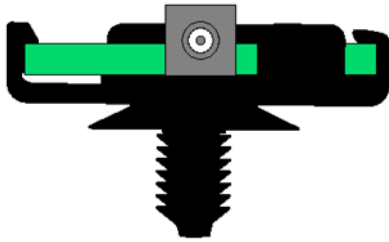
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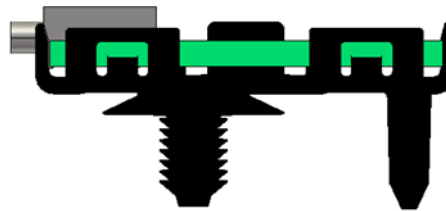
2.4 Radiation Pattern

Measured in free space

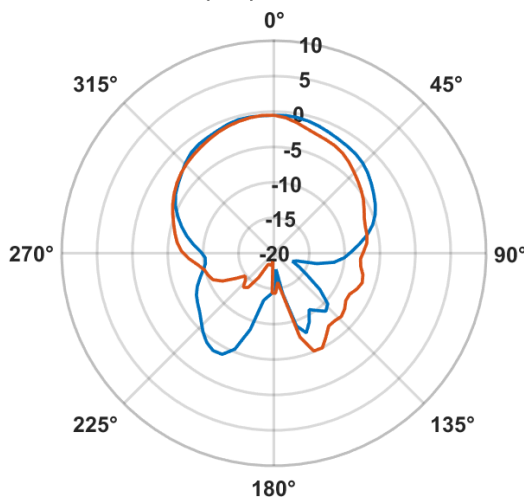
$\Phi = 90^\circ$



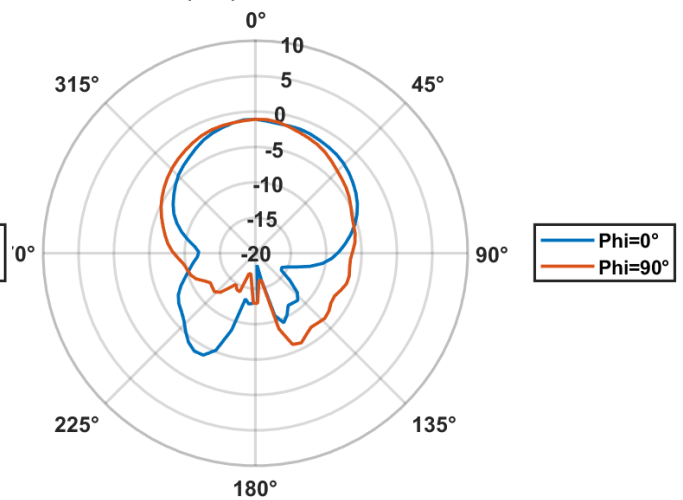
$\Phi = 0^\circ$



Etotal (dBi) at 2.4000 GHz



Etotal (dBi) at 2.4300 GHz

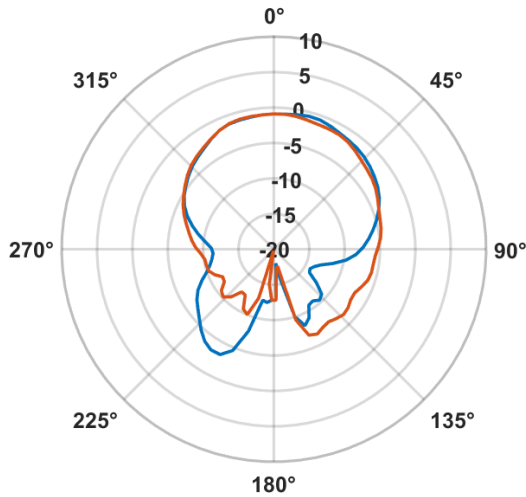




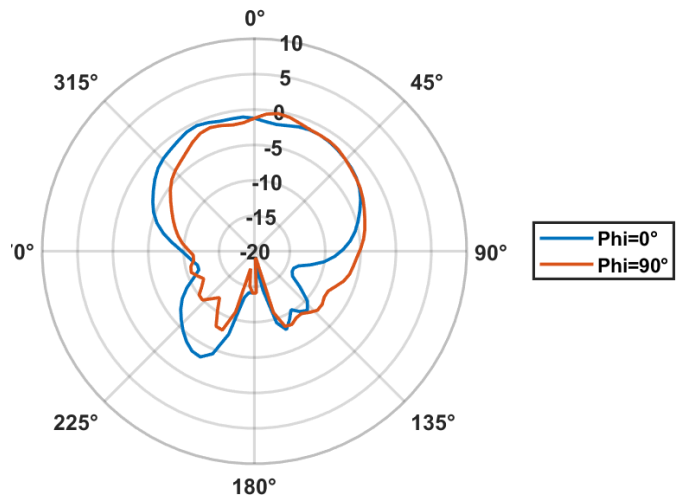
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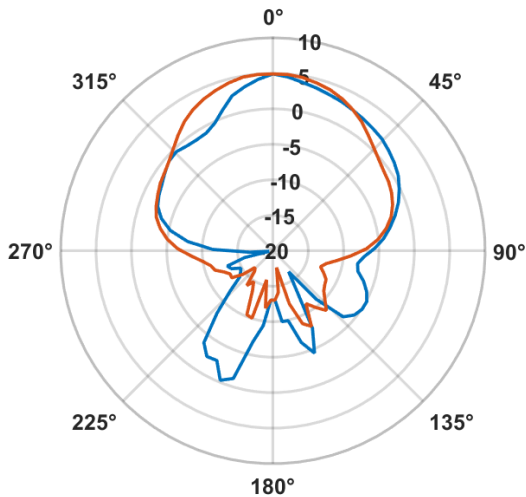
Ettotal (dBi) at 2.4500 GHz



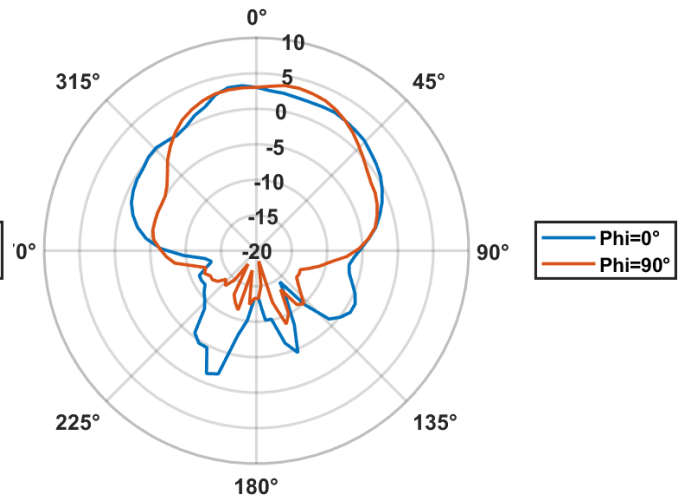
Ettotal (dBi) at 2.4830 GHz



Ettotal (dBi) at 5.1500 GHz



Ettotal (dBi) at 5.3500 GHz

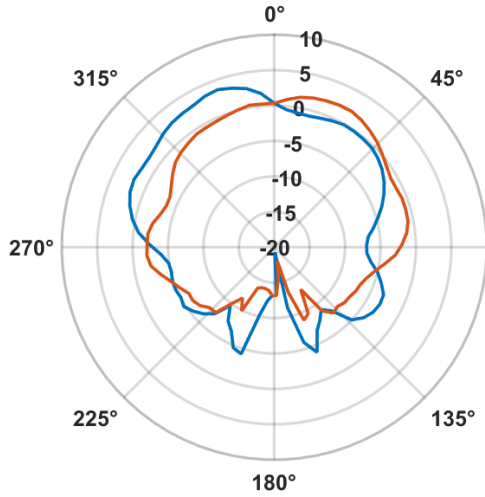




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Ettotal (dBi) at 5.6000 GHz



Ettotal (dBi) at 5.8500 GHz

