

Regulatory WLAN Antenna Information

(WLAN SKU_NB mode)

Platform information										
Brand	ODM	RMN	Intel platform (ex: Yes, No or NA)	Platform type (ex: regular NB, convertible PC, AIO...etc)	*SAR minimum separation (mm)					
HP Inc.	Inventec	HSN-I61C	Yes	Convertible PC	218.565					
*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.										
Antenna information										
Vendor	Type	Antenna Part number (Aux/Tx1)	Antenna Part number (Main/Tx2)							
WNC	PIFA	6036B0345201 (81EAB815.G02)	6036B0344801 (81EAB815.G01)							
Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	-0.14	-0.55	0.85	-0.09	0.72	0.72	1.61	0.85	-0.39	-1.47
Aux	1.35	1.22	1.66	0.64	0.42	-1.96	0.40	0.23	0.63	-0.72
Module Information										
Model	Form factor and suffixes									
AX211NGW	Intel Garfield Peak 2 AX211 Wi-Fi 6e +Bluetooth 5.2 M.2 2230 160MHz CNVi WW WLAN									
BE200.NGW	Intel Gale Peak 2 BE200 Wi-Fi 7 +BT 5.4 M.2 2230 320MHz PCIe WW WLAN									
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1. **Applicable test methods**

ETS-Lindgren AMS-8500 system is 3D fully anechoic chamber, it is applied to the “Conical Cut test method”, the detail description is described as below.

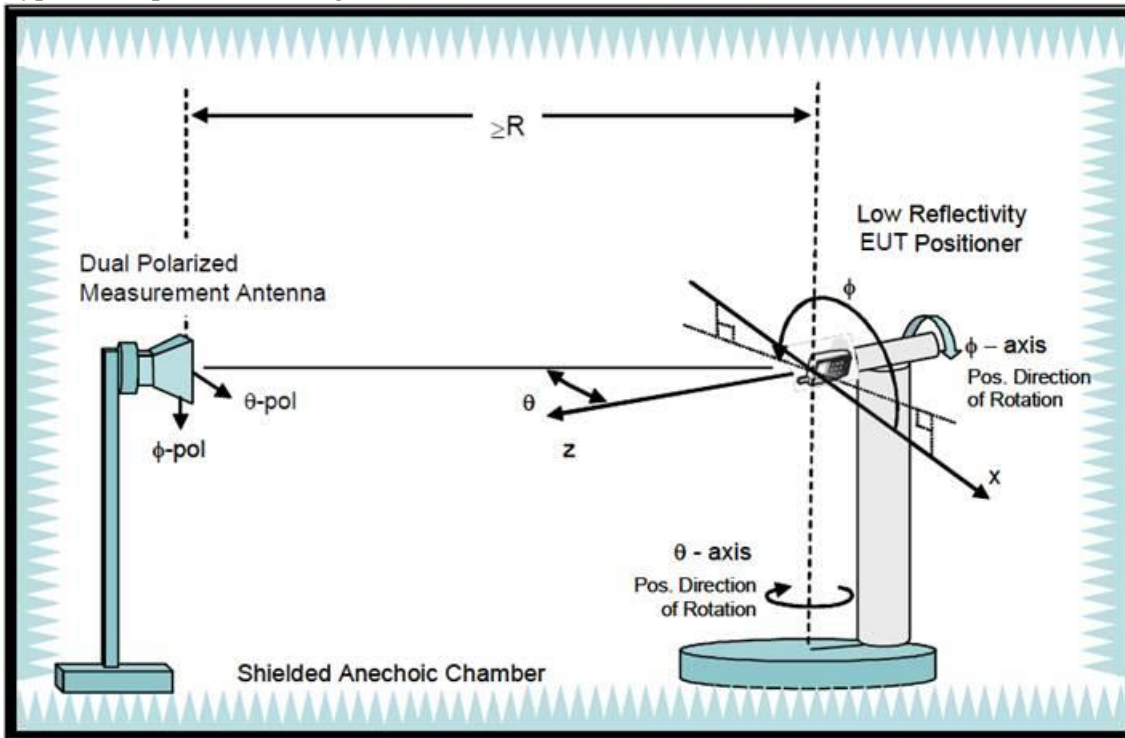
The Conical Cut method requires the ability of the Measurement Antenna to be physically rotated in the theta plane (overhead) of the EUT for implementations using a single Measurement Antenna, Eleven conical cuts are required to capture data at every 15 degrees from the EUT, with the top (0 degrees) and bottom (180 degrees) cuts not being measured. Typically, the EUT will remain affixed to a turntable during the entire measurement process. The Measurement Antenna will be positioned at a starting theta angle. The EUT will then be rotated around the full 360 degrees of phi rotation. The Measurement Antenna will then be positioned at the next theta angle, and the process repeated.

		θ -Axis	Φ -Axis
Passive	Step size	15°~165° step: 15°	0°~345° step: 15°
	N / M (Points)	12	24

2. **Test & System Description**

a. Test setup

Typical Setup for ETS-Lindgren AMS-8500:



Antenna Information

Section 1. Antenna Assembly Specifications

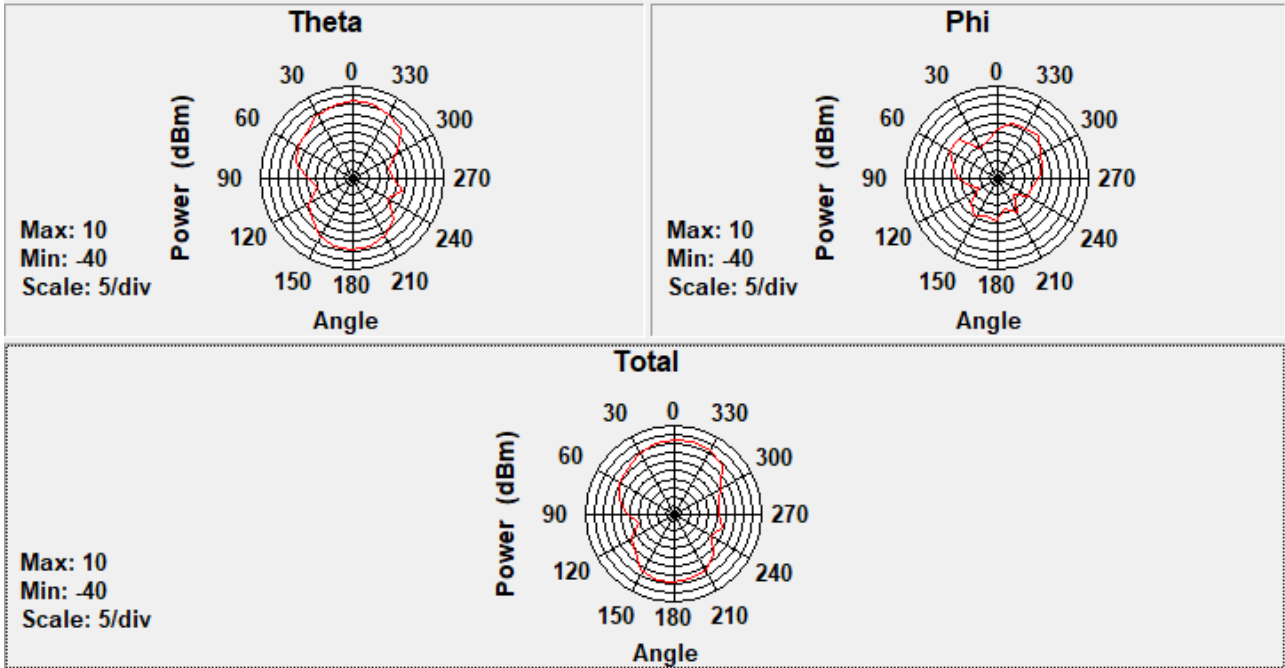
1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Freq Range MHz	1F * Peak Gain W/ Cable loss (dBi)	1G Peak Gain w/o Cable Loss (dBi)	1H Max VSWR	1I Cable Loss (dB)
P/N: 6036B0345201 (81EAB815.G02) Aux Antenna (TX1)	WNC	PIFA	Connector: Vendor (P/N: SY113L/50-080) 50 ohm Coaxial length: 408mm diameter: 1.13mm	2400-2495	1.35	2.48	3.0	1.13
				5150-5250	1.22	2.90	3.0	1.68
				5250-5350	1.66	3.36	3.0	1.70
				5470-5725	0.64	2.38	3.0	1.74
				5725-5850	0.42	2.18	3.0	1.76
				5850-5895	-1.96	-0.18	3.0	1.78
				5925-6425	0.40	2.23	3.0	1.83
				6425-6525	0.23	2.12	3.0	1.89
				6525-6875	0.63	2.56	3.0	1.93
				6875-7125	-0.72	1.27	3.0	1.99
P/N: 6036B0344801 (81EAB815.G01) Main Antenna (TX2)	WNC	PIFA	Connector: Vendor (P/N: SY113L/50-118) 50 ohm Coaxial length: 540mm diameter: 1.13mm	2400-2495	-0.14	1.36	3.0	1.50
				5150-5250	-0.55	1.67	3.0	2.22
				5250-5350	0.85	3.09	3.0	2.24
				5470-5725	-0.09	2.21	3.0	2.30
				5725-5850	0.72	3.06	3.0	2.34
				5850-5895	0.72	3.07	3.0	2.35
				5925-6425	1.61	4.03	3.0	2.42
				6425-6525	0.85	3.35	3.0	2.50
				6525-6875	-0.39	2.17	3.0	2.56
				6875-7125	-1.47	1.16	3.0	2.63

Section 3. Radiation characteristics of antenna loaded in Host Platform

Auxiliary Antenna

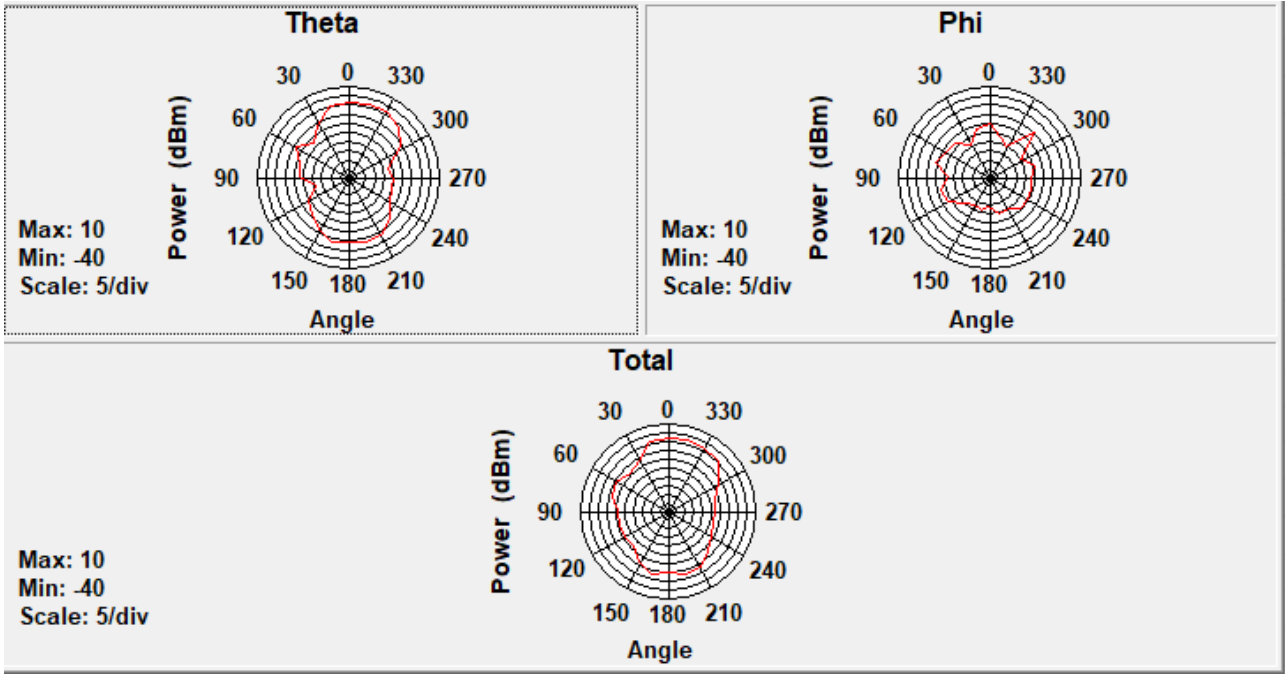
Max Antenna 2D Radiation Pattern 2400 – 2495 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2495	1.35



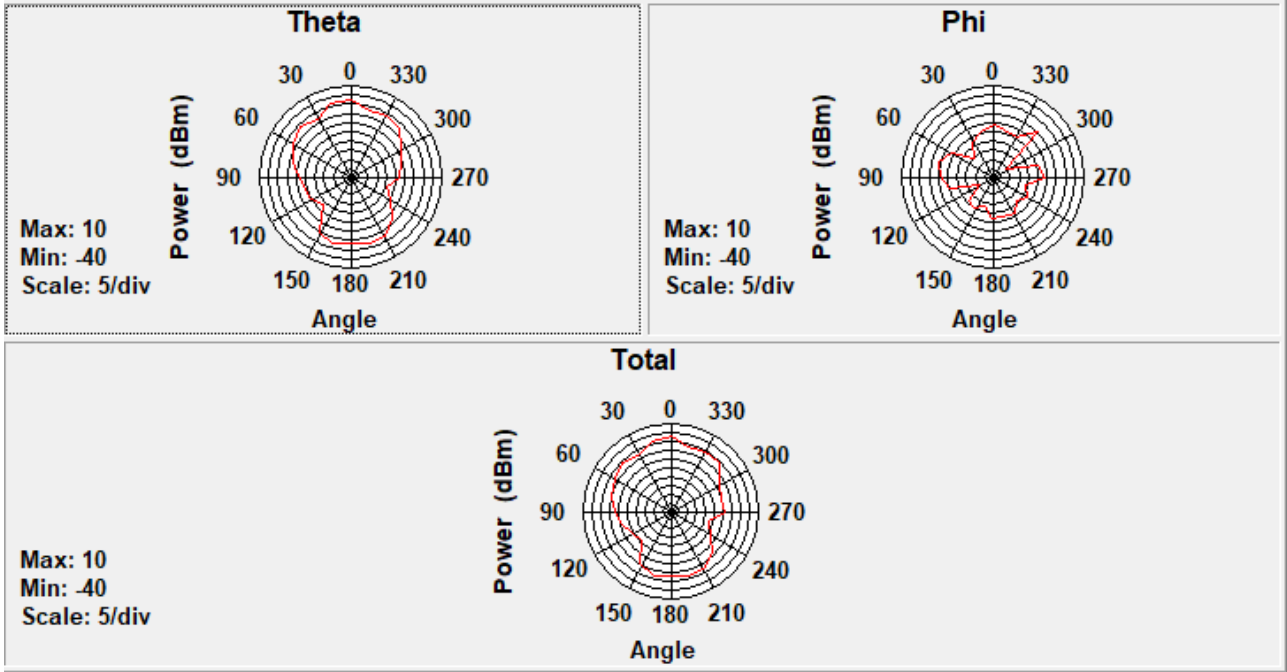
Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	1.22



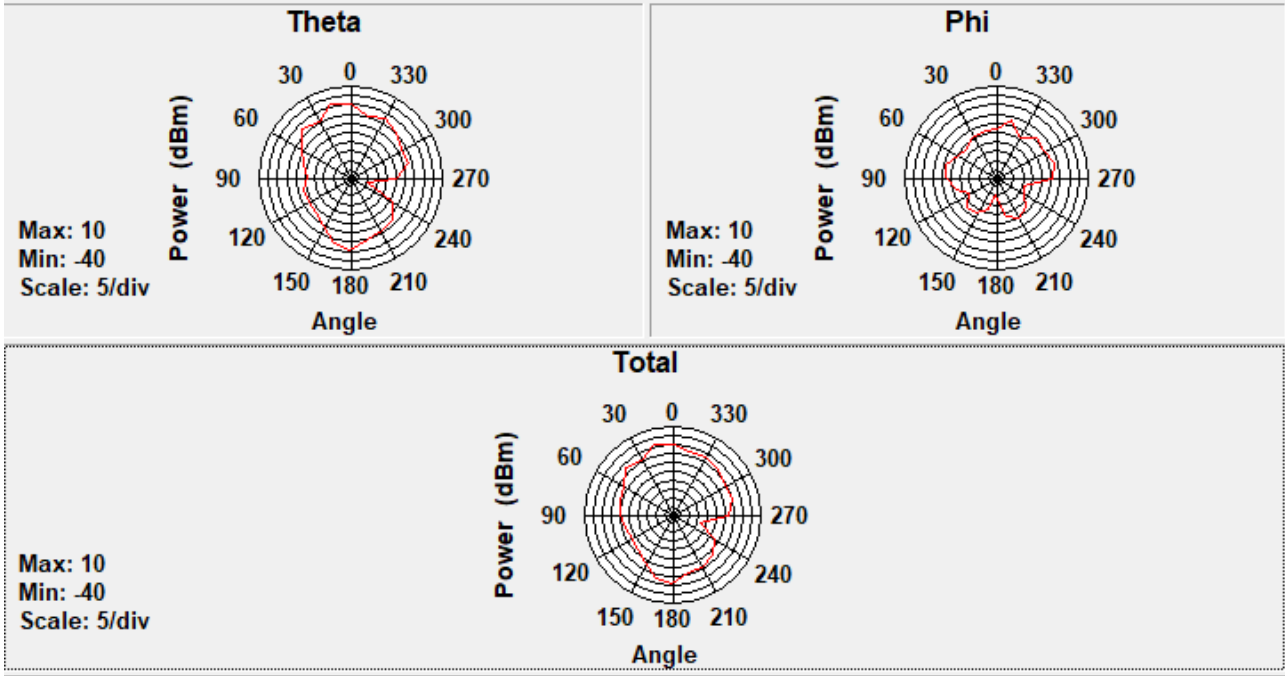
Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	1.66



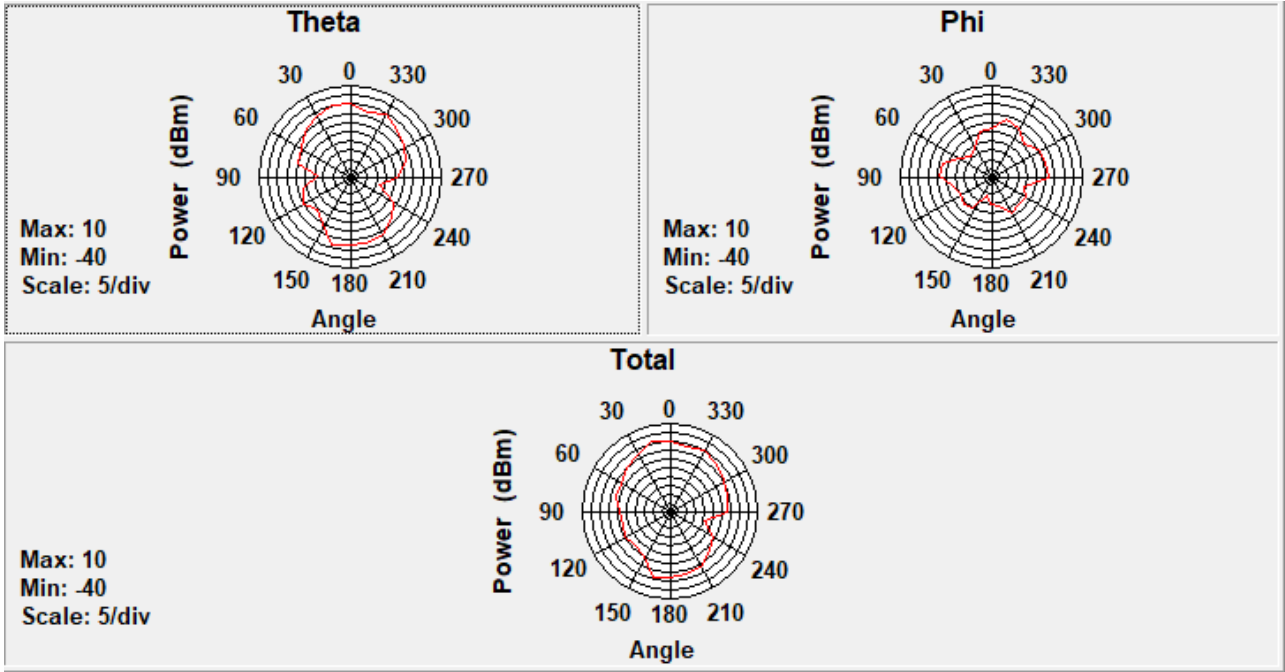
Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	0.64



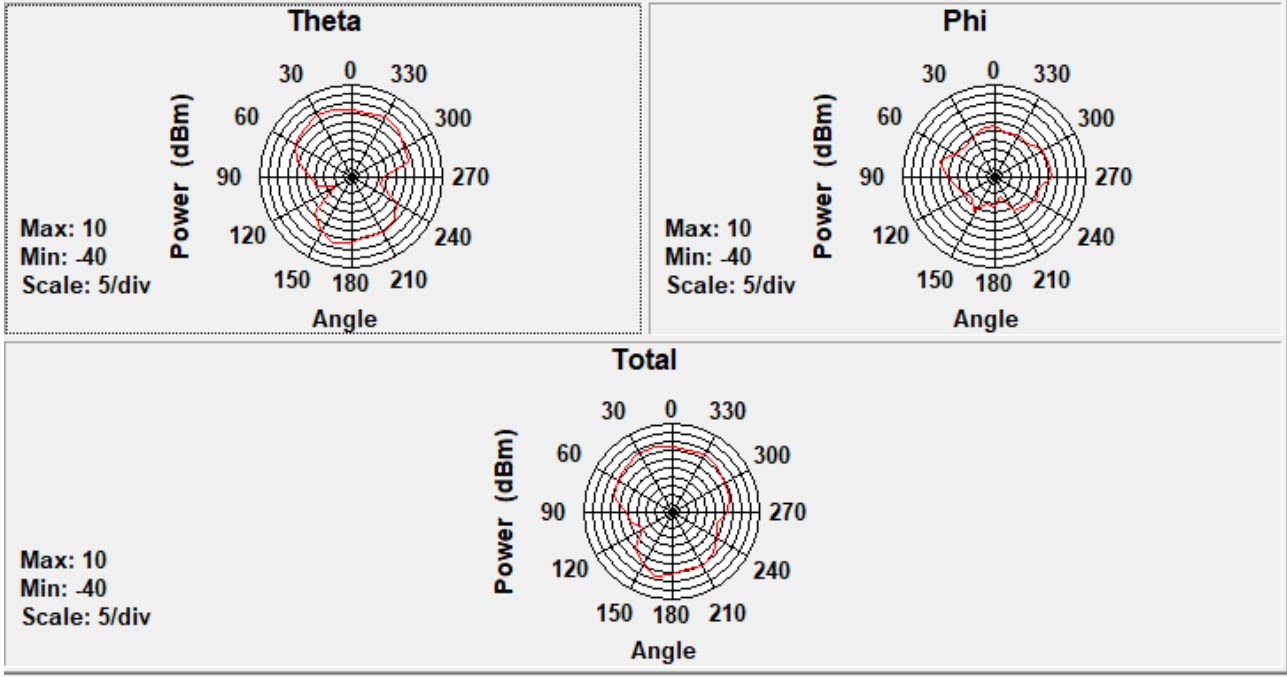
Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	0.42



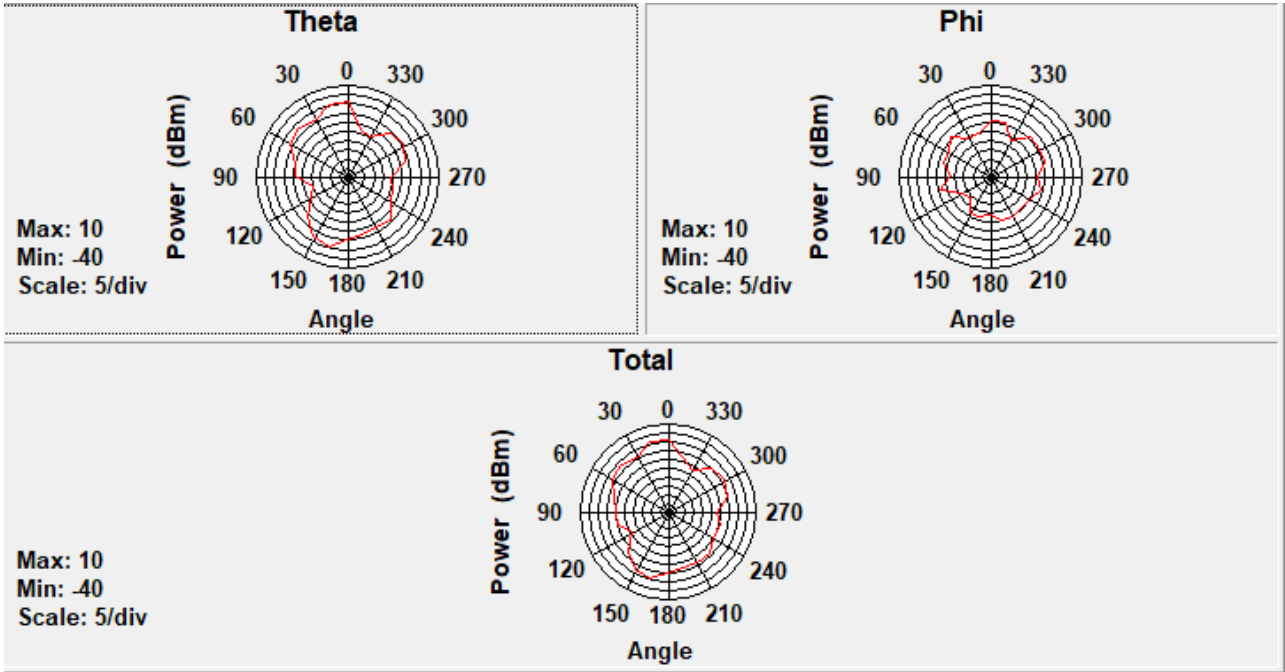
Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	-1.96



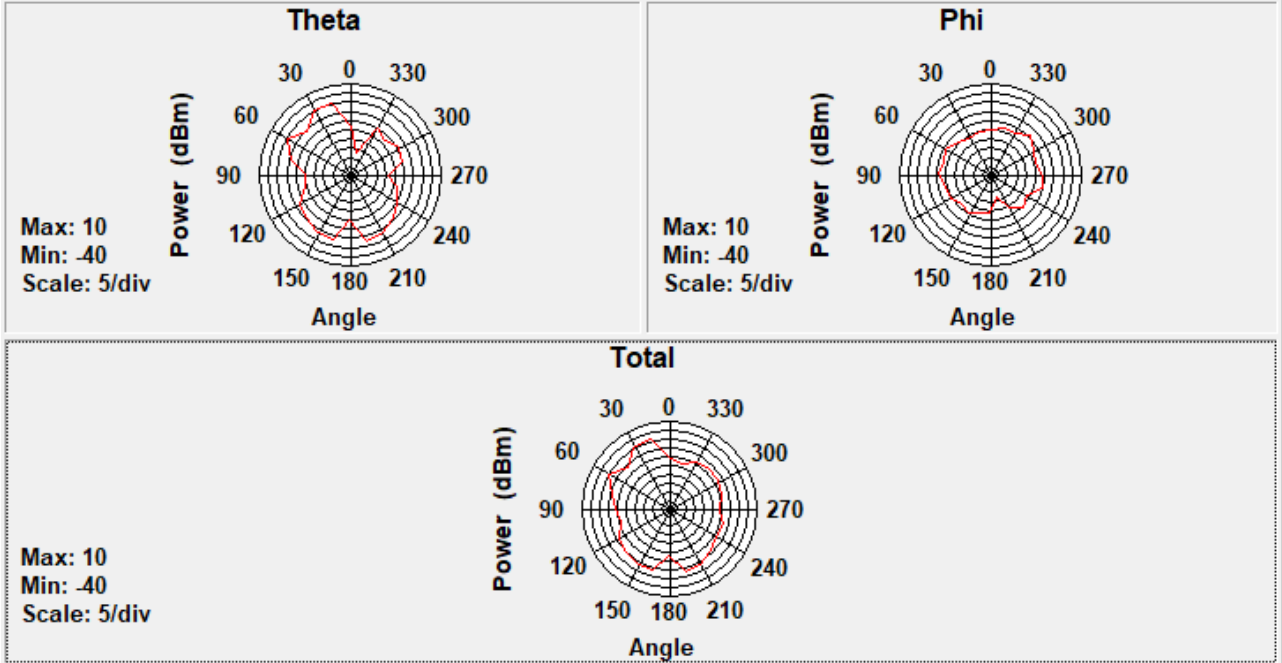
Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	0.40



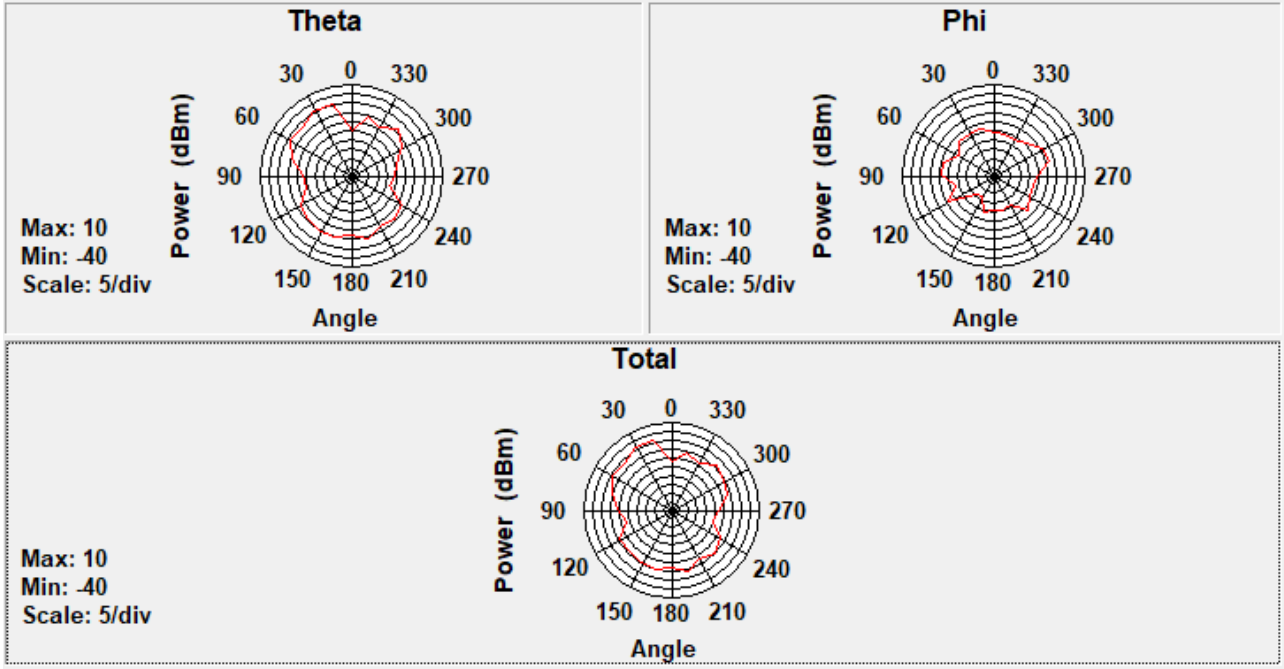
Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	0.23



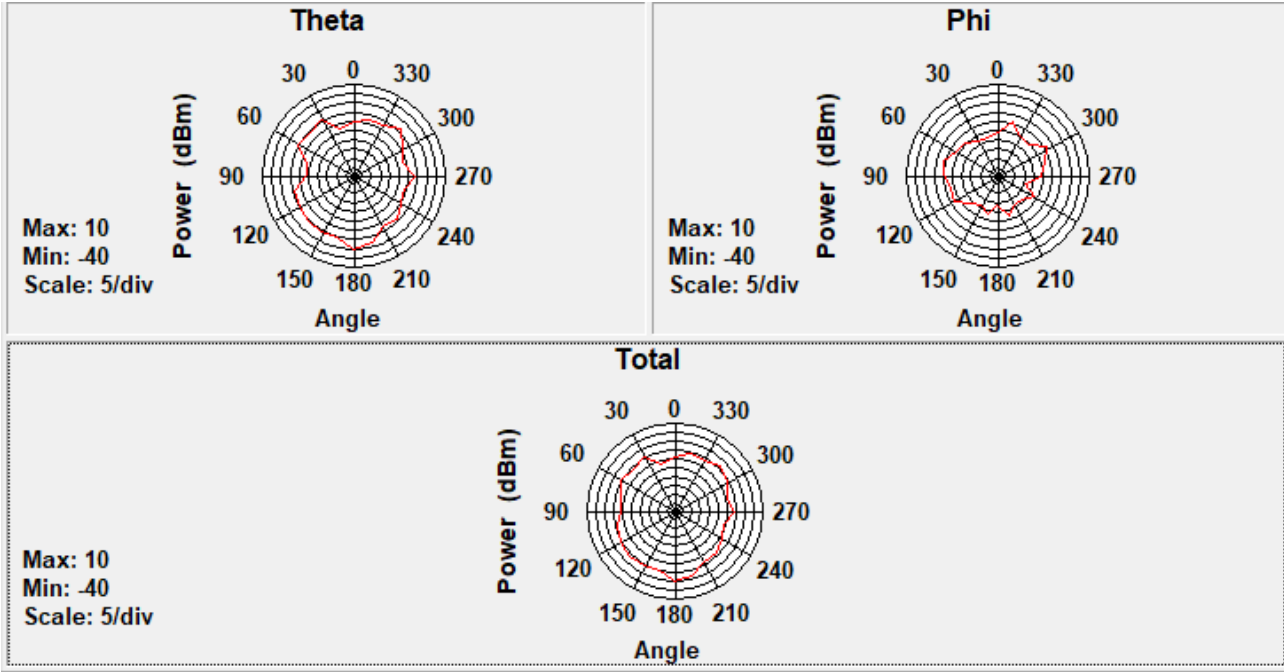
Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	0.63



Max Antenna 2D Radiation Pattern 6875-7125 MHz

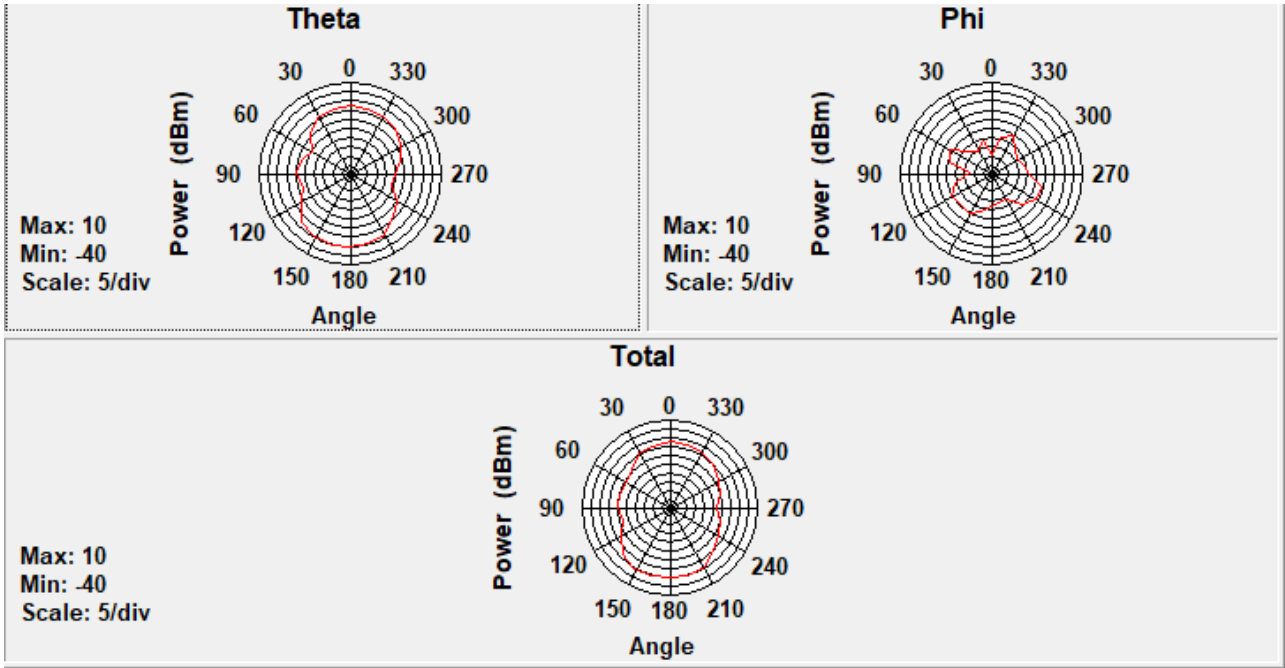
Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	-0.72



Main Antenna

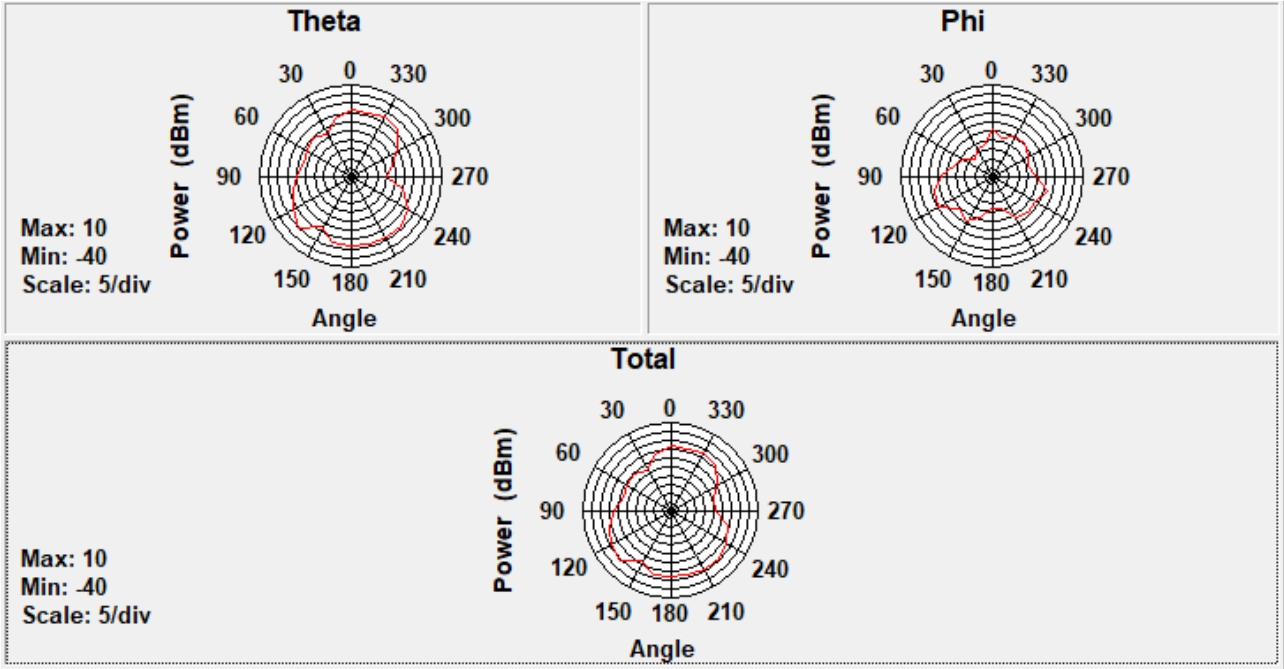
Max Antenna 2D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2483.5	-0.14



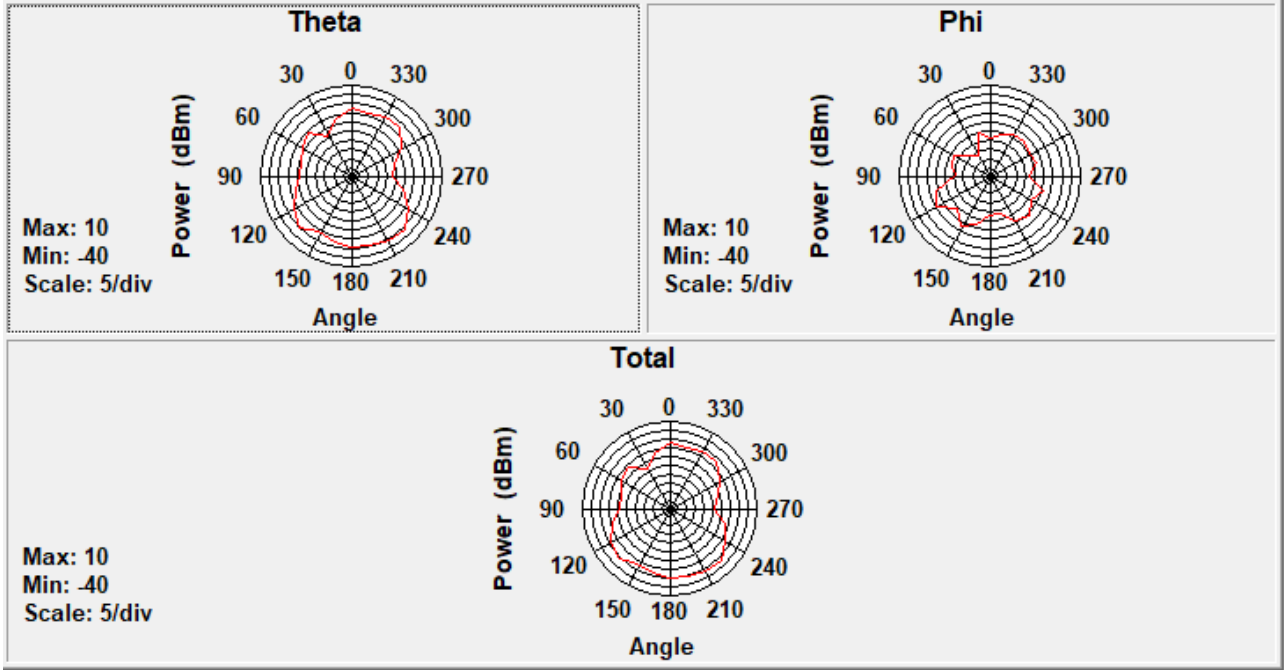
Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	-0.55



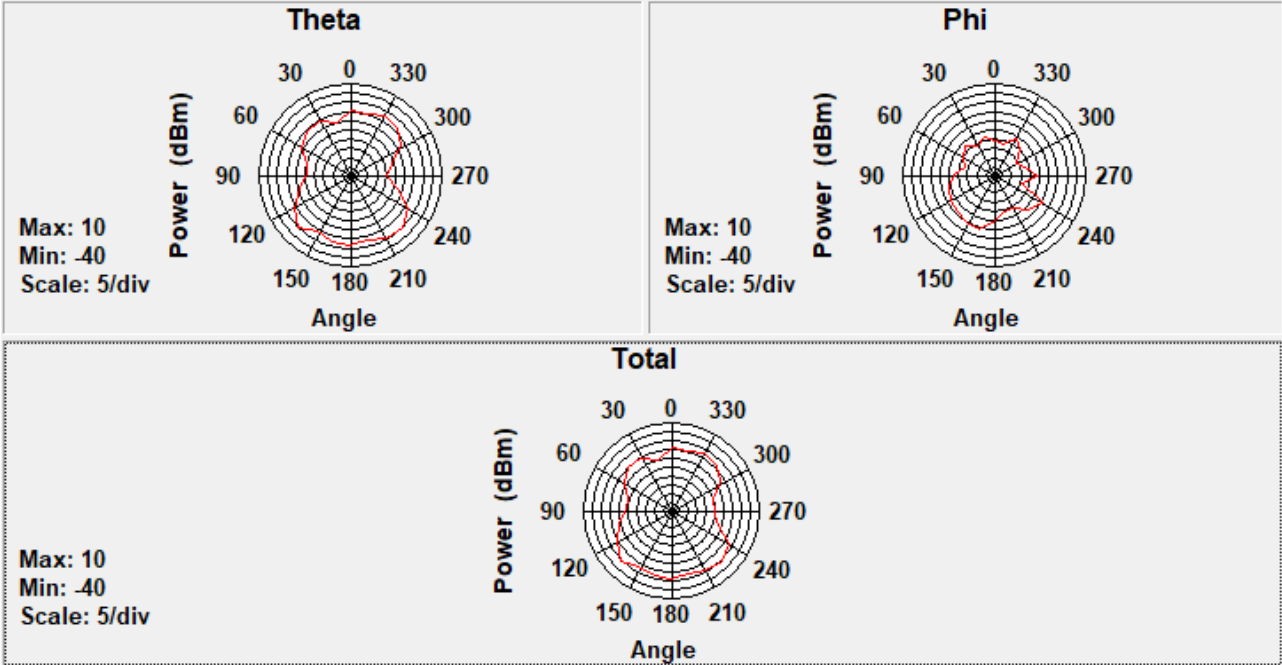
Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	0.85



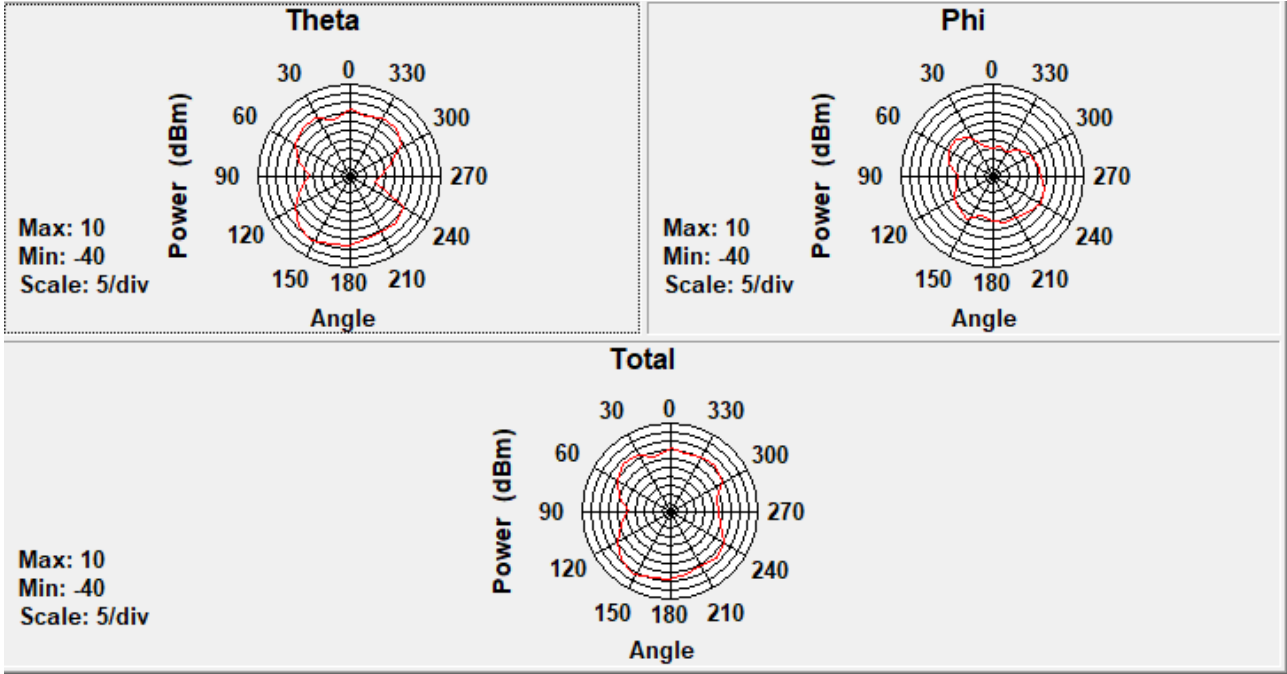
Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	-0.09



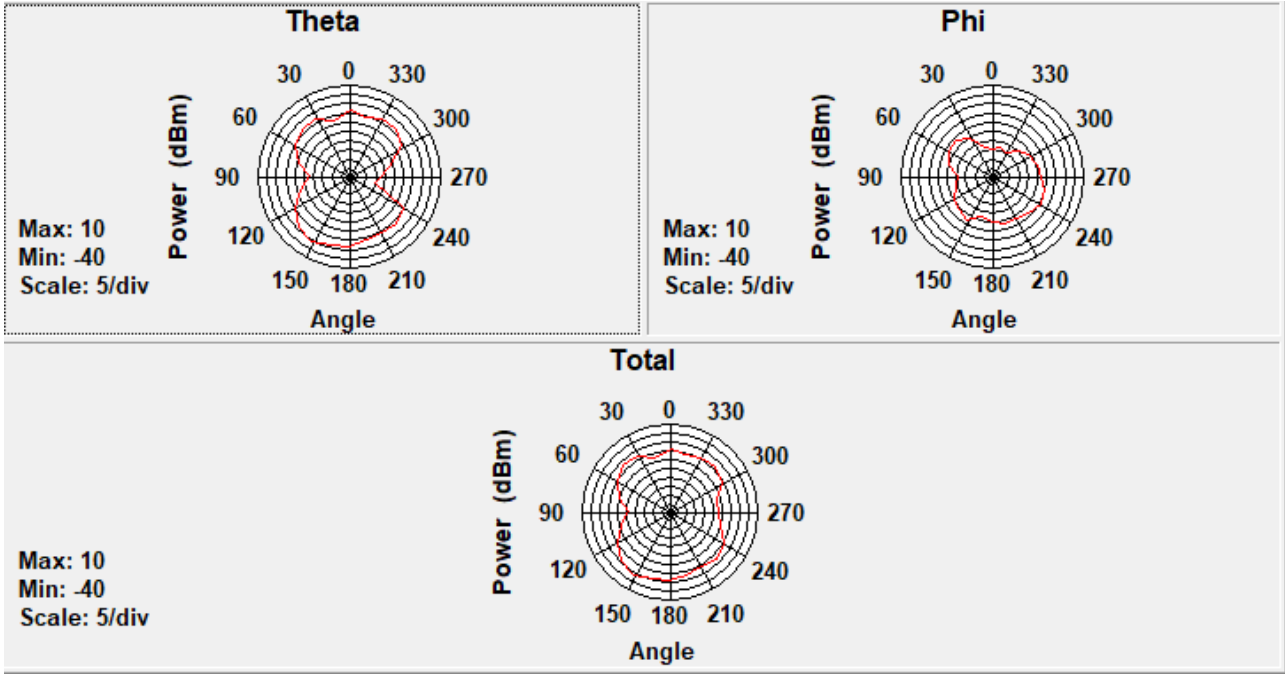
Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	0.72



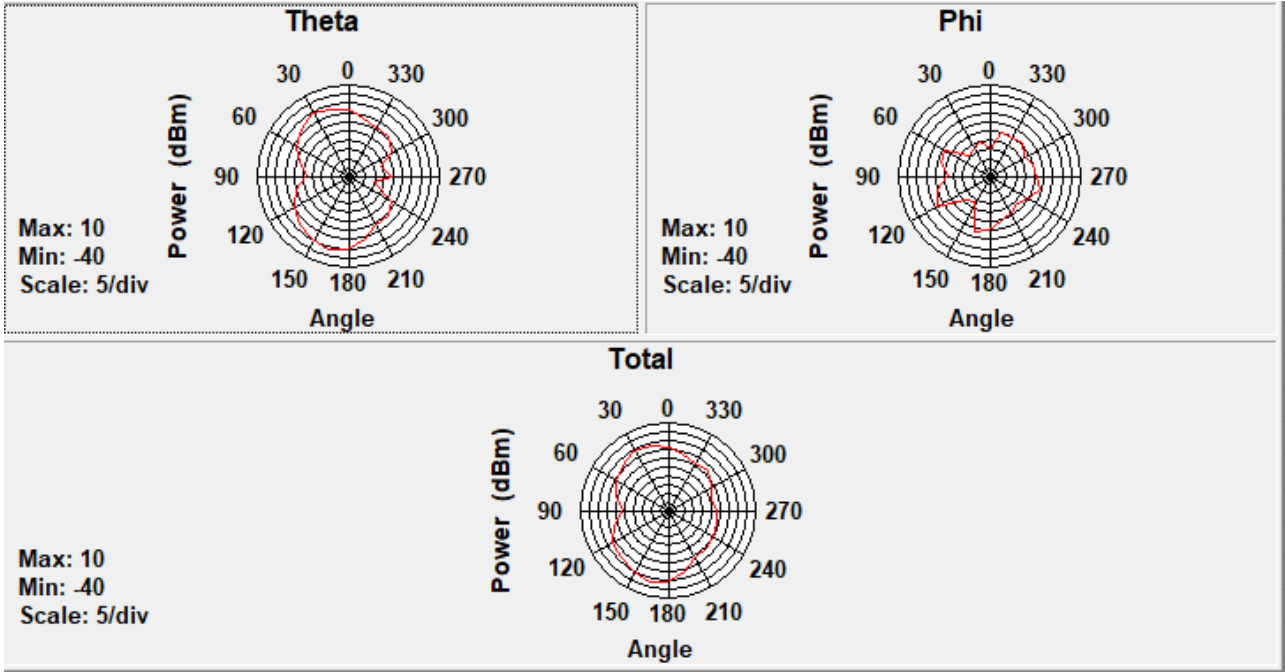
Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	0.72



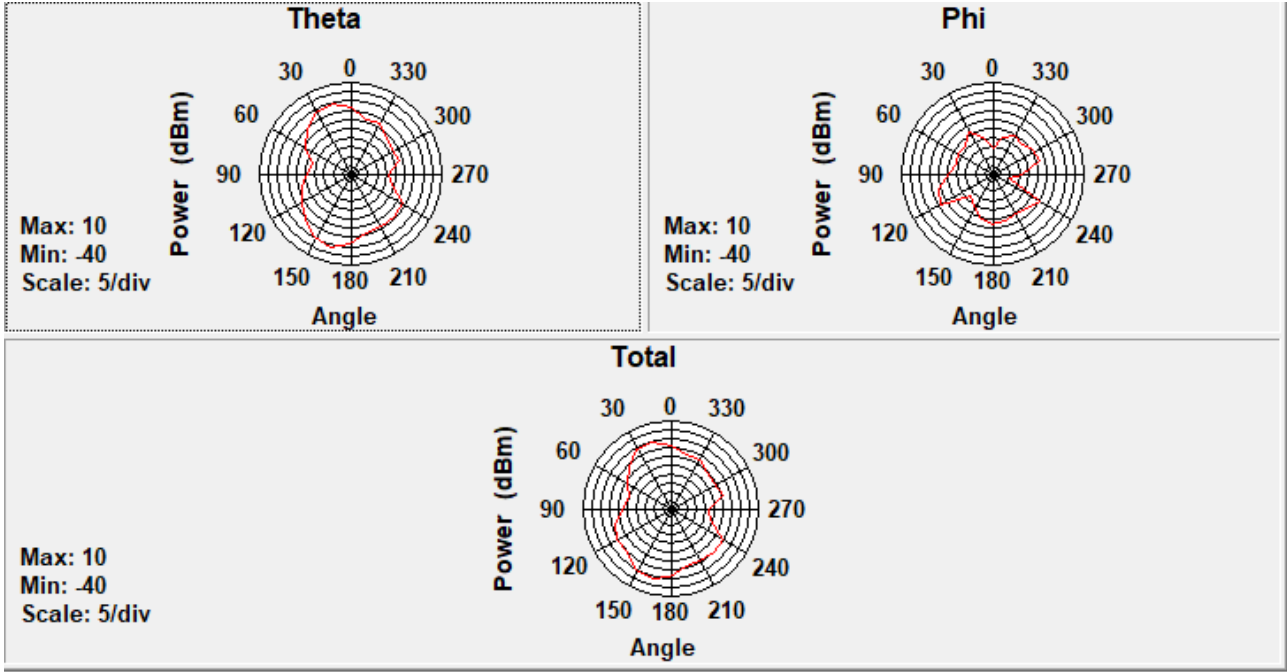
Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	1.61



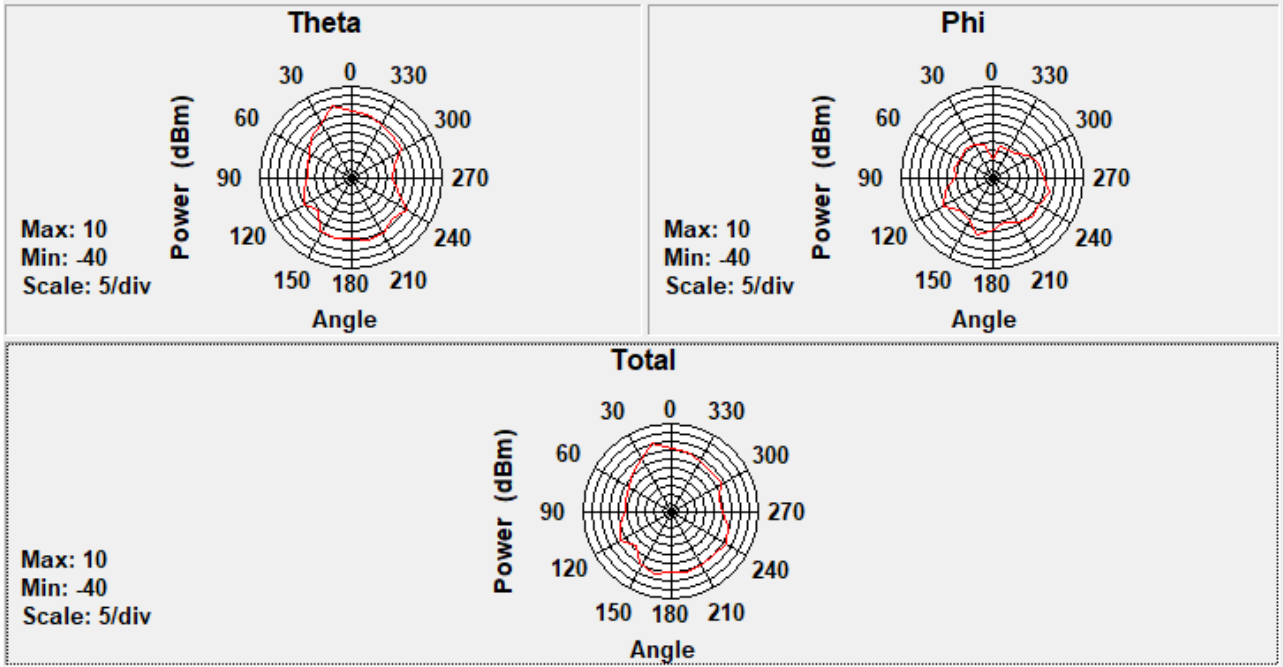
Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	0.85



Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	-0.39



Max Antenna 2D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	-1.47

