

Regulatory WLAN Antenna Information (Template)

English Language Required for Intel Regulatory Review / Approval

(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.

Remove Intel references and make this your own document)

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.		Compal		TPN-C165		Yes		Convertible PC		2.58mm
*****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 (Main/Tx2)		Antenna Part number (Aux/Tx1)		
WNC			PIFA			48EABP0R		48EABP0S		
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	-0.11	2.48	2.77	2.98	0.87	2.02	2.18	2.21	2.21	2.57
Aux	0.21	0.32	2.13	0.77	2.14	2.75	2.7	1.99	1.85	1.22
Module Information										
Model		Form factor and suffixes								
BE200NGW		Intel Gale Peak 2 BE200 M.2 2230 Wi-Fi 7 +Bluetooth 5.4 non-vPro WW WLAN								
Name of the antenna manufacturer		Address of the antenna manufacturer								
WNC		20 Park Avenue II (or Yuanchiu 2nd Rd.), Hsinchu Science Park, Hsinchu 300, Taiwan								

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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.

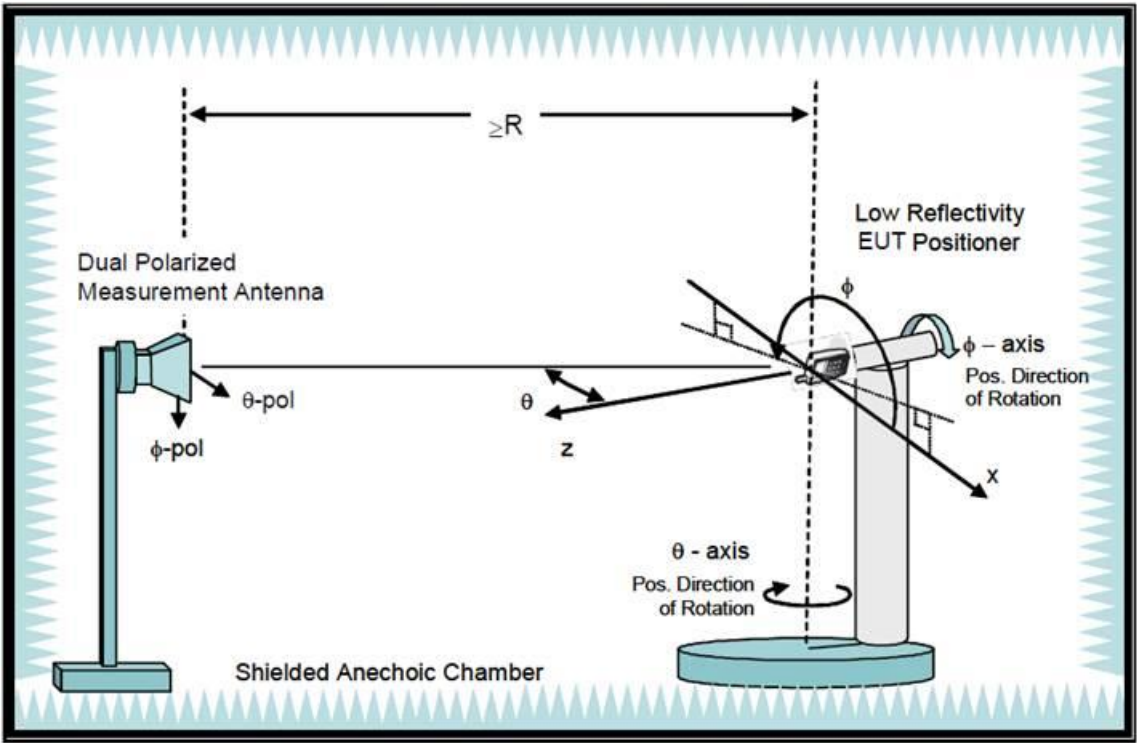
The Conical Cut method requires the ability of the Measurement Antenna to be physically rotated in the theta plane (overhead) of the EUT for implementations using a single Measurement Antenna, Eleven conical cuts are required to capture data at every 15 degrees from the EUT, with the top (0 degrees) 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**

c. Test setup

Typical Setup for ETS-Lindgren AMS-8500:



b. Equipment list

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2022/01/07	2023/01/06
Measurement software	ETS-Lindgren	EMQuest	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2115	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2110	N/A	N/A
MAPSTM controller	ETS-Lindgren	EMCO 2090	N/A	N/A
Horn antenna	ETS-Lindgren	3164-10	N/A	N/A

N/A : Not Applicable

Note : Chamber calibration included full set of implement.

Antenna Information

Section 1. Antenna Assembly Specifications

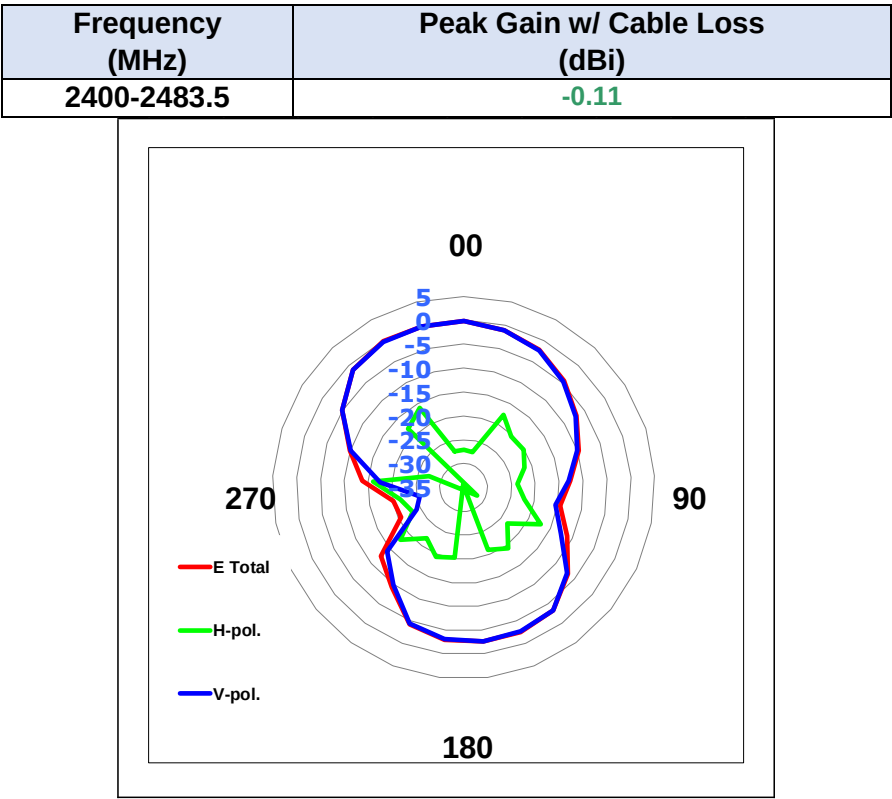
1A	1B	1C	1D		1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
(P/N: 48EABP0R) Main Antenna (TX2)	Wistron Neweb Corporation	PIFA	P/N: MHF-4L PLUG -20632-001R-37 50 ohm Coaxial length: 485cm diameter: 1.37mm	2400-2483.5	-0.11	1.02	3	1.13
				5150-5250	2.48	4.16	3	1.68
				5250-5350	2.77	4.46	3	1.69
				5470-5725	2.98	4.72	3	1.74
				5725-5850	0.87	2.63	3	1.76
				5850-5895	2.02	3.80	3	1.78
				5925-6425	2.18	4.01	3	1.83
				6425-6525	2.21	4.10	3	1.89
				6525-6875	2.21	4.14	3	1.93
				6875-7125	2.57	4.56	3	1.99
(P/N: 48EABP0S) Aux Antenna (TX1)	Wistron Neweb Corporation	PIFA	P/N: MHF-4L PLUG -20632-001R-37 50 ohm Coaxial length: 585cm diameter: 1.37mm	2400-2483.5	0.21	1.45	3	1.24
				5150-5250	0.32	2.17	3	1.85
				5250-5350	2.13	4.04	3	1.91
				5470-5725	0.77	2.72	3	1.95
				5725-5850	2.14	4.27	3	2.13
				5850-5895	2.75	4.89	3	2.14
				5925-6425	2.70	4.91	3	2.21
				6425-6525	1.99	4.27	3	2.28
				6525-6875	1.85	4.18	3	2.33
				6875-7125	1.22	3.62	3	2.40

- 3D Antenna Peak Gain required being test in system basis.

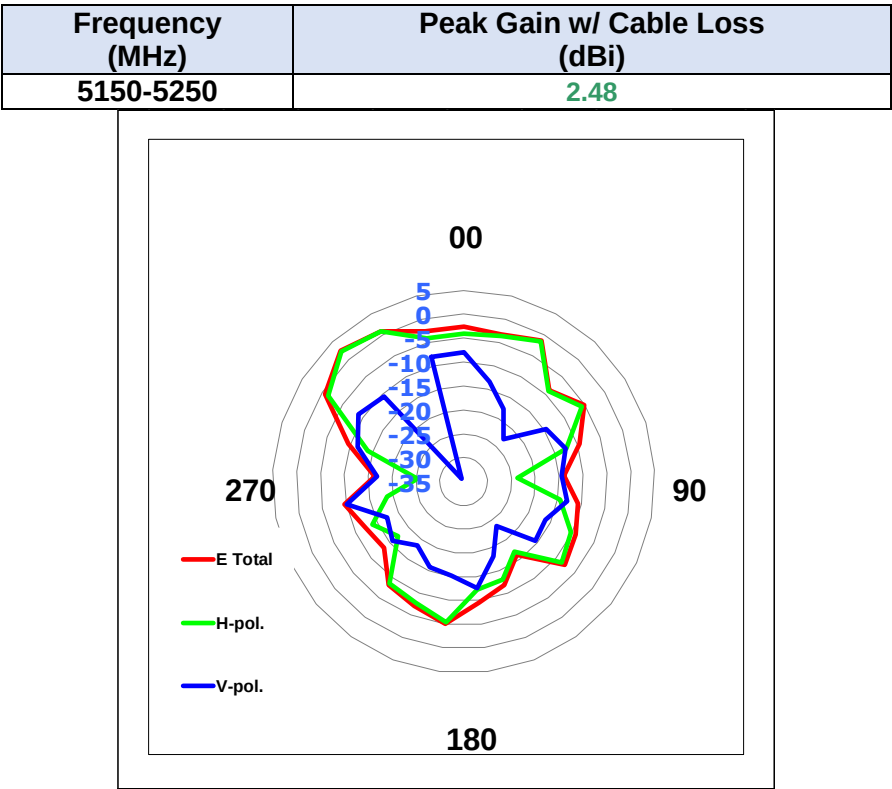
Section 2 Radiation characteristics of antenna loaded in Host Platform

Main Antenna

Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

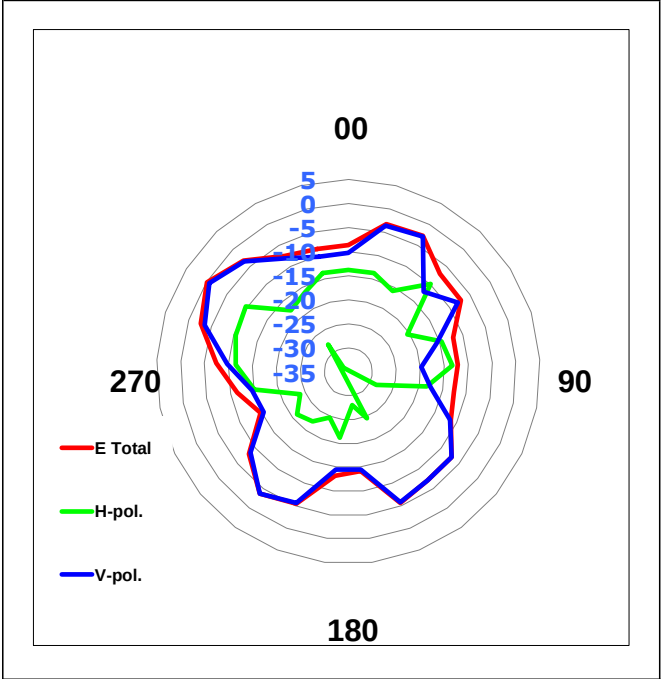


Max Antenna 3D Radiation Pattern 5150-5250 MHz



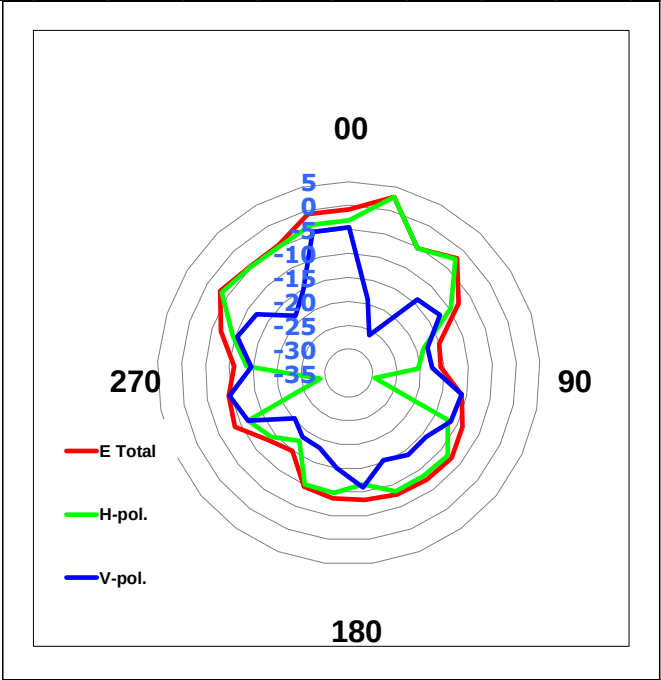
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.77

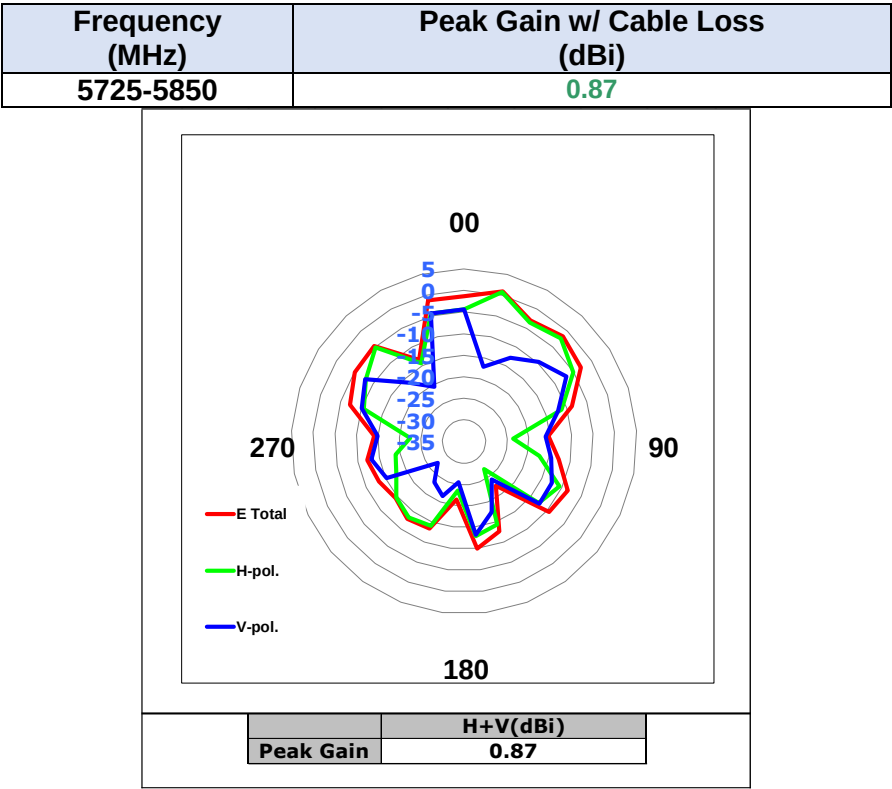


Max Antenna 3D Radiation Pattern 5470-5725 MHz

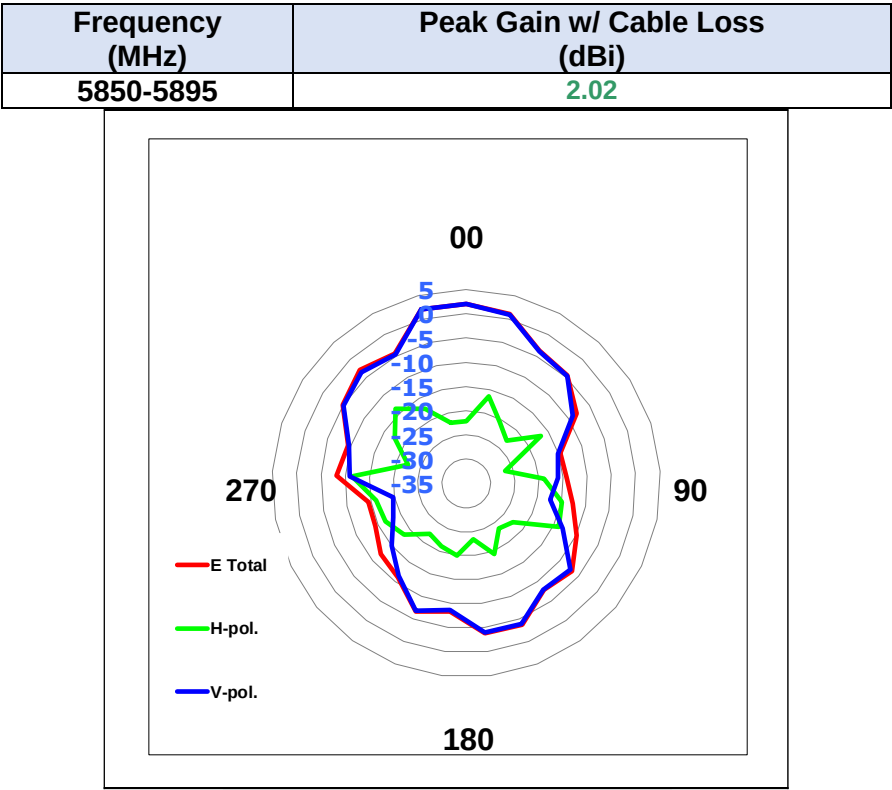
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.98



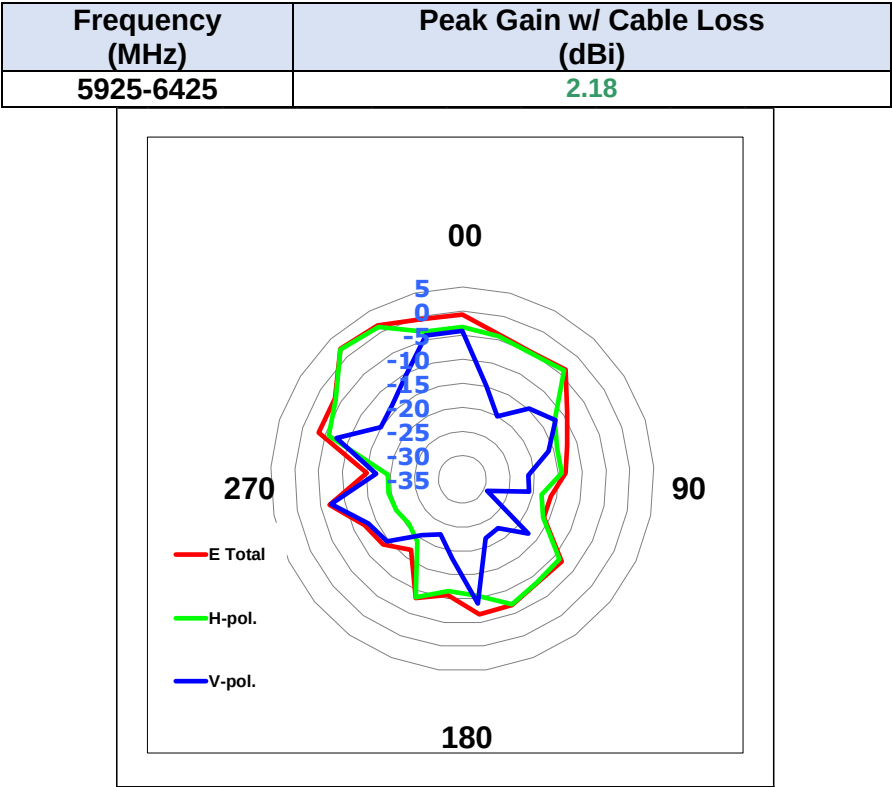
Max Antenna 3D Radiation Pattern 5725-5850 MHz



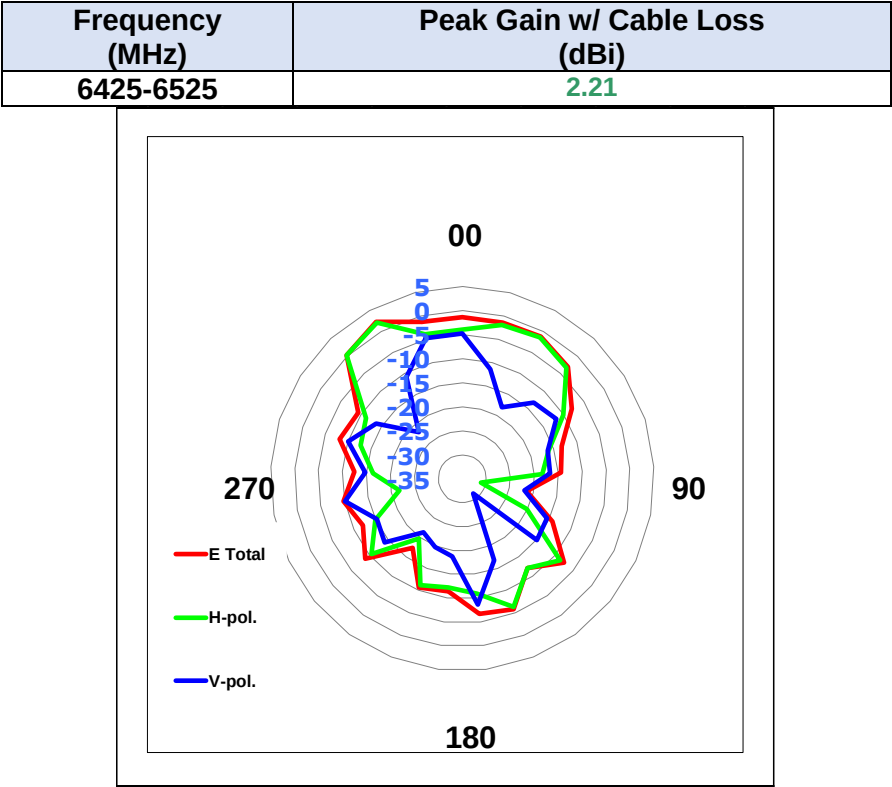
Max Antenna 3D Radiation Pattern 5850-5895 MHz



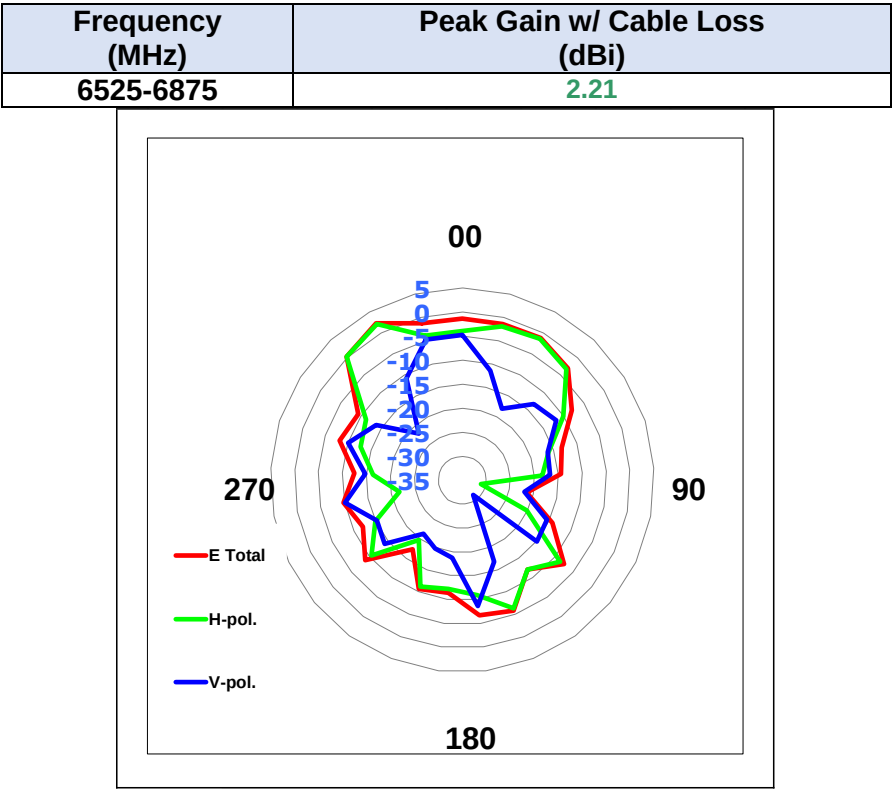
Max Antenna 3D Radiation Pattern 5925-6425 MHz



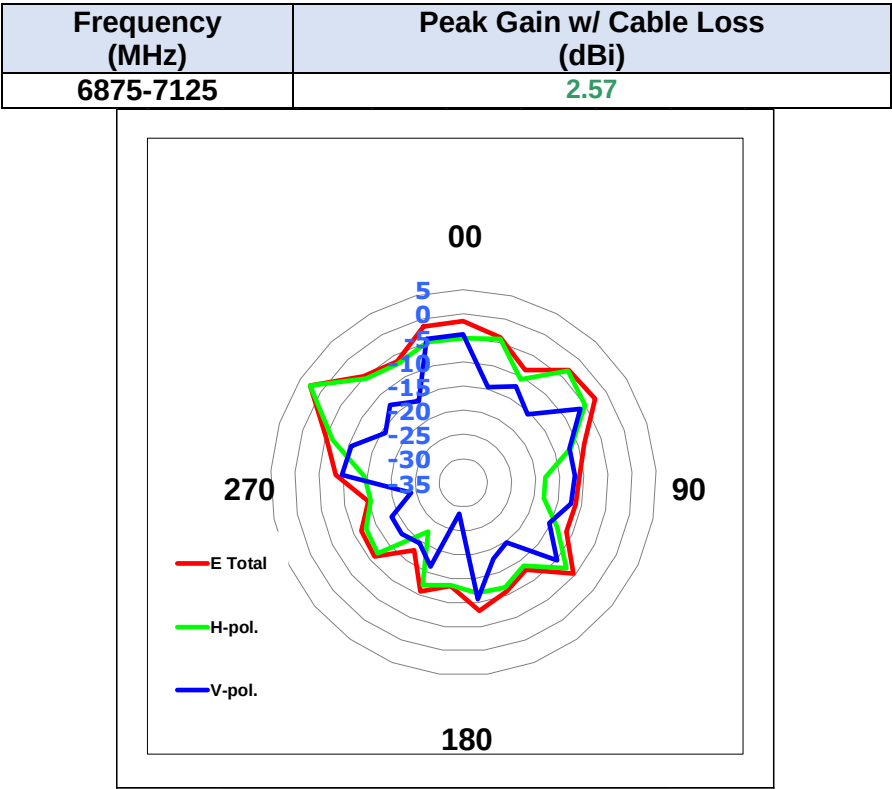
Max Antenna 3D Radiation Pattern 6425-6525 MHz



Max Antenna 3D Radiation Pattern 6525-6875 MHz

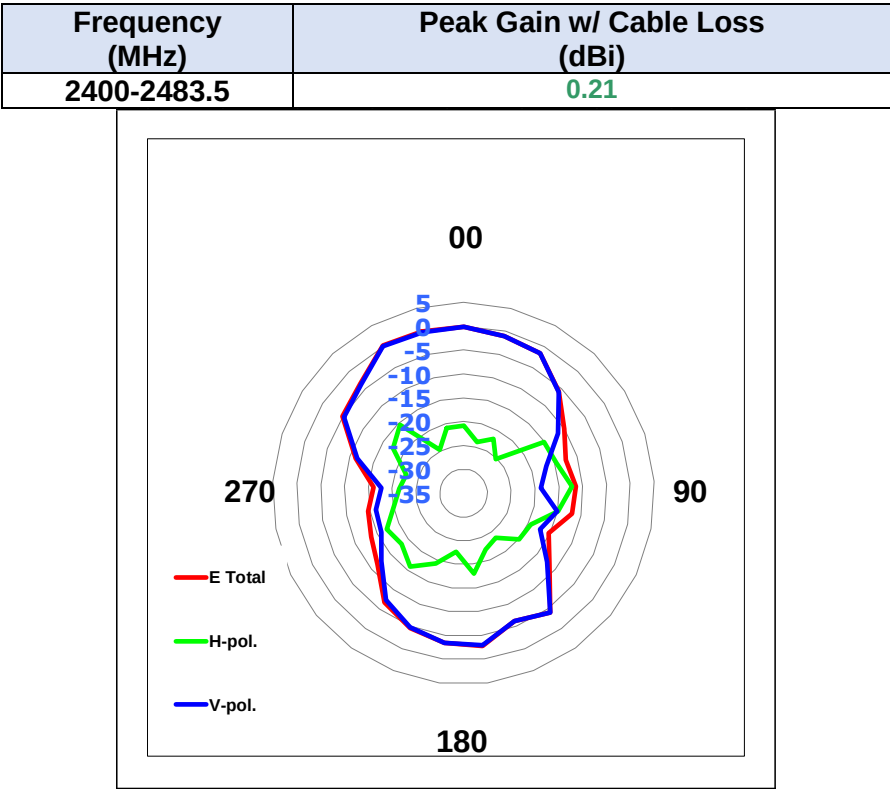


Max Antenna 3D Radiation Pattern 6875-7125 MHz

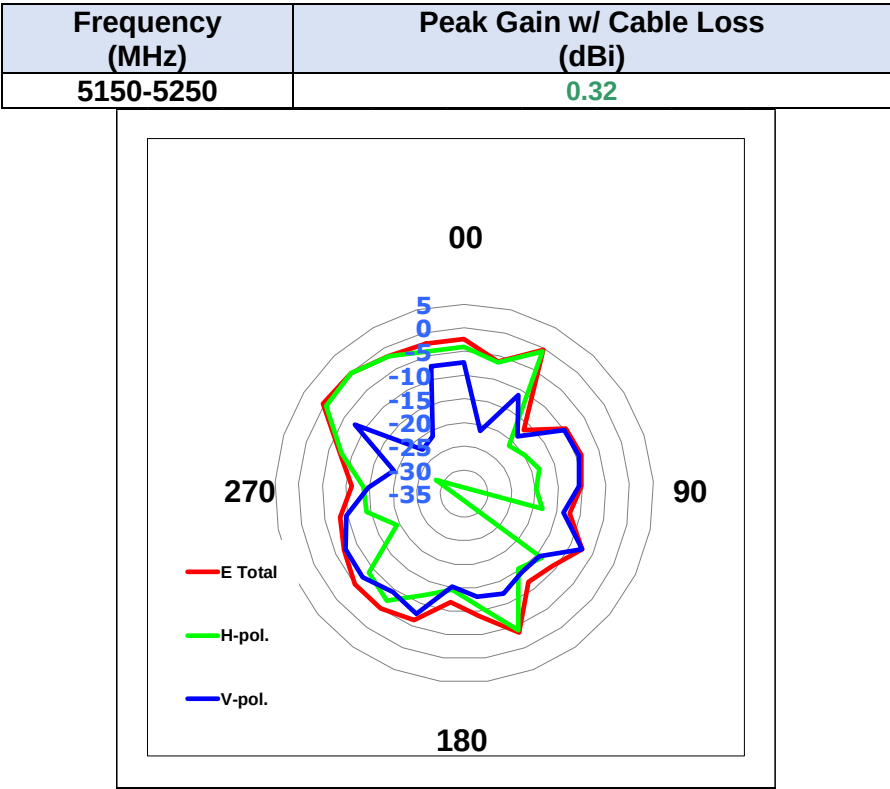


Auxiliary Antenna

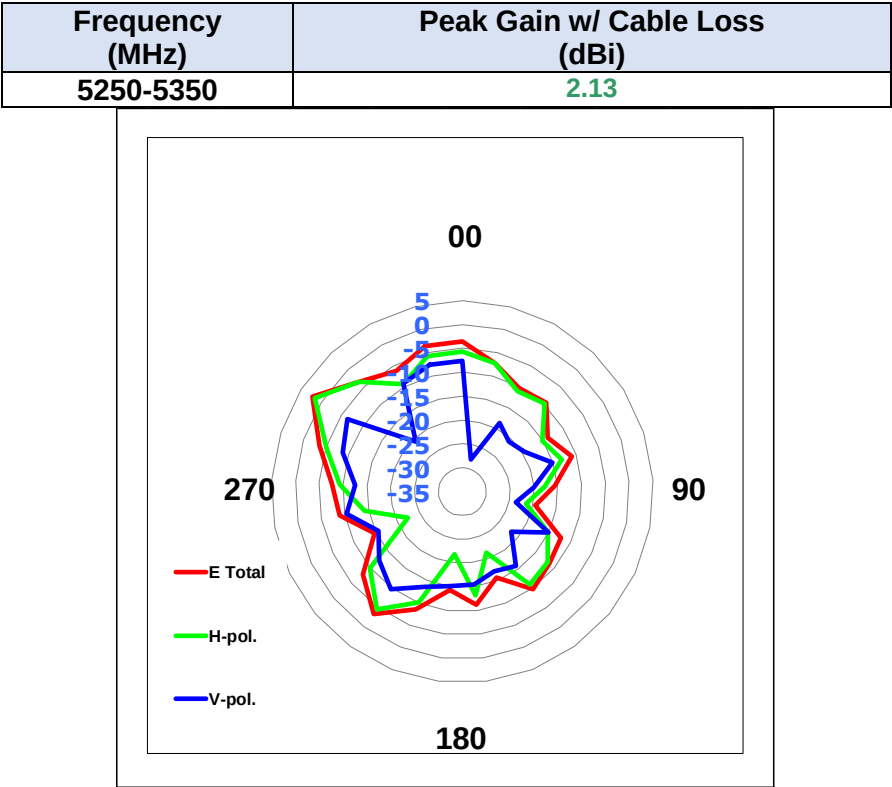
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz



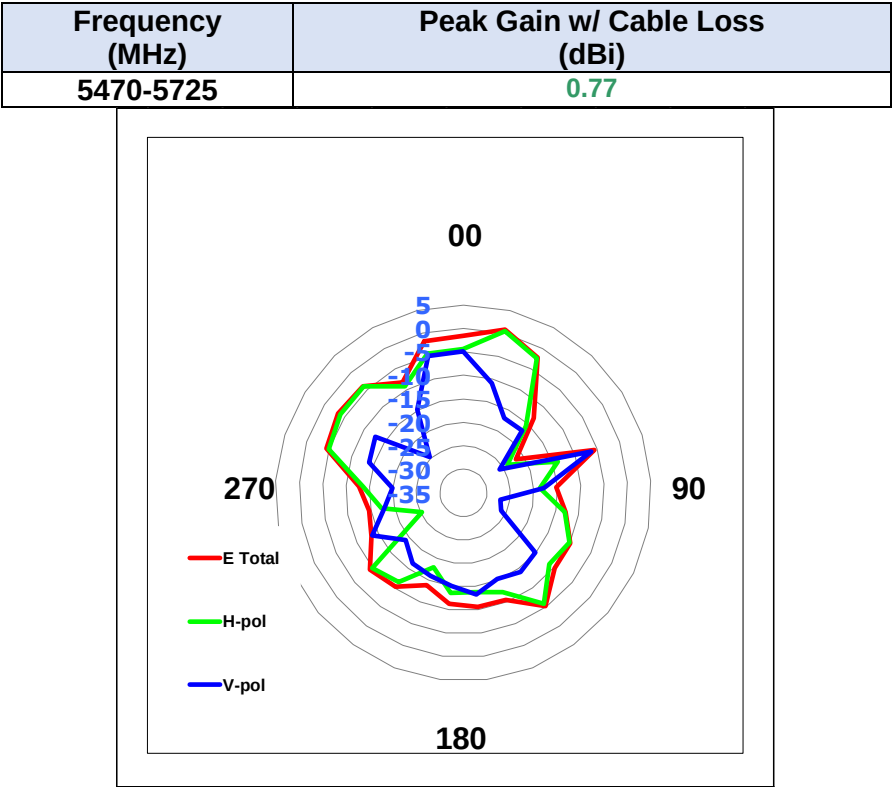
Max Antenna 3D Radiation Pattern 5150-5250 MHz



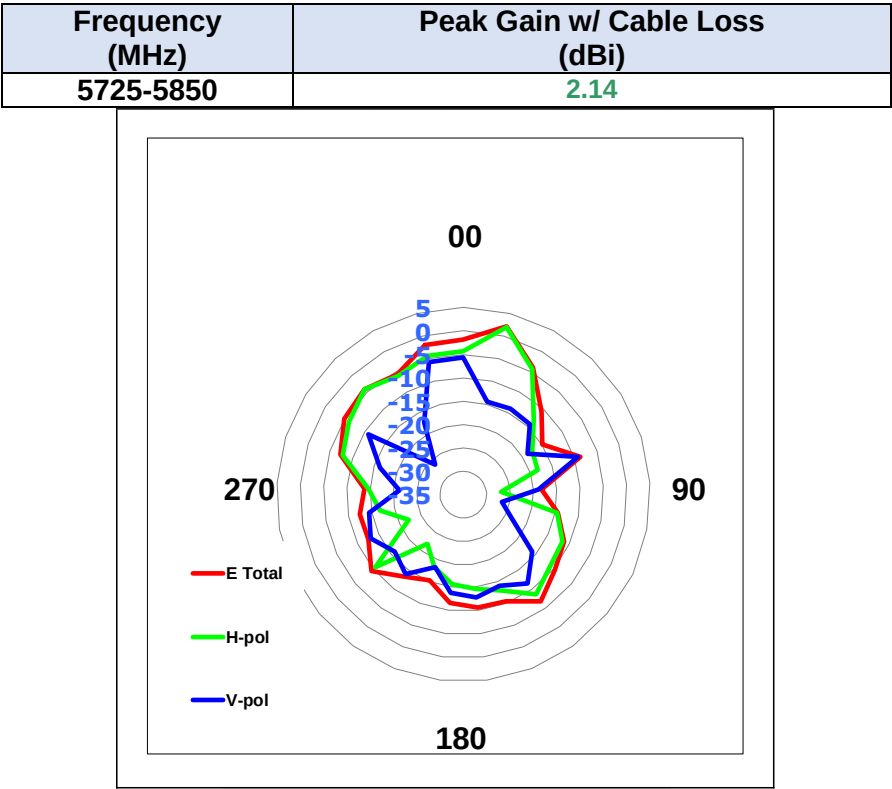
Max Antenna 3D Radiation Pattern 5250-5350 MHz



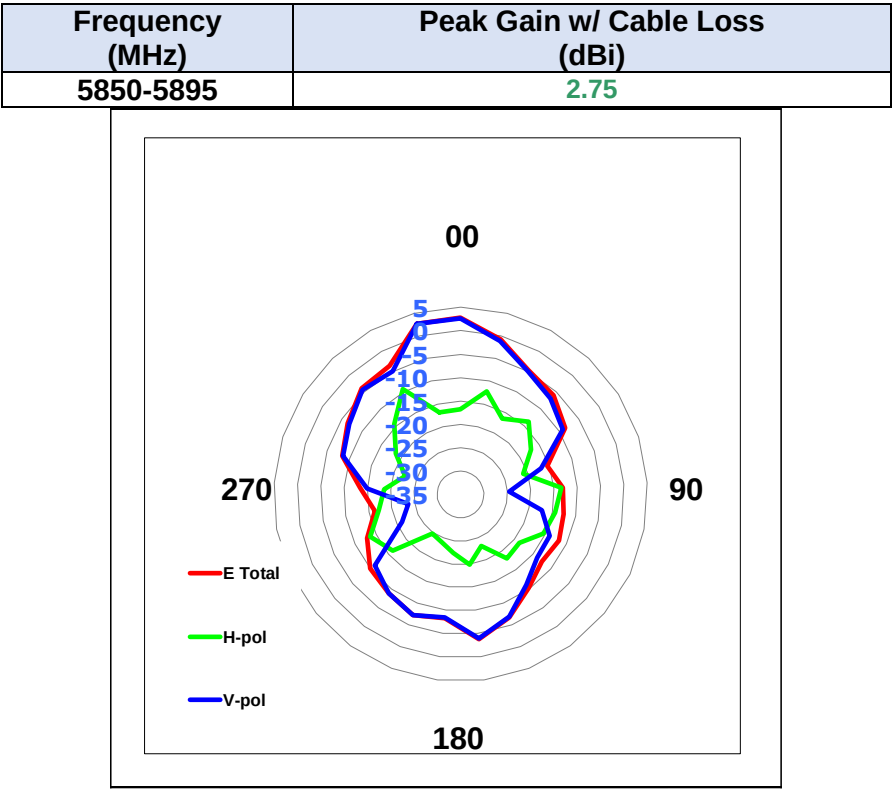
Max Antenna 3D Radiation Pattern 5470-5725 MHz



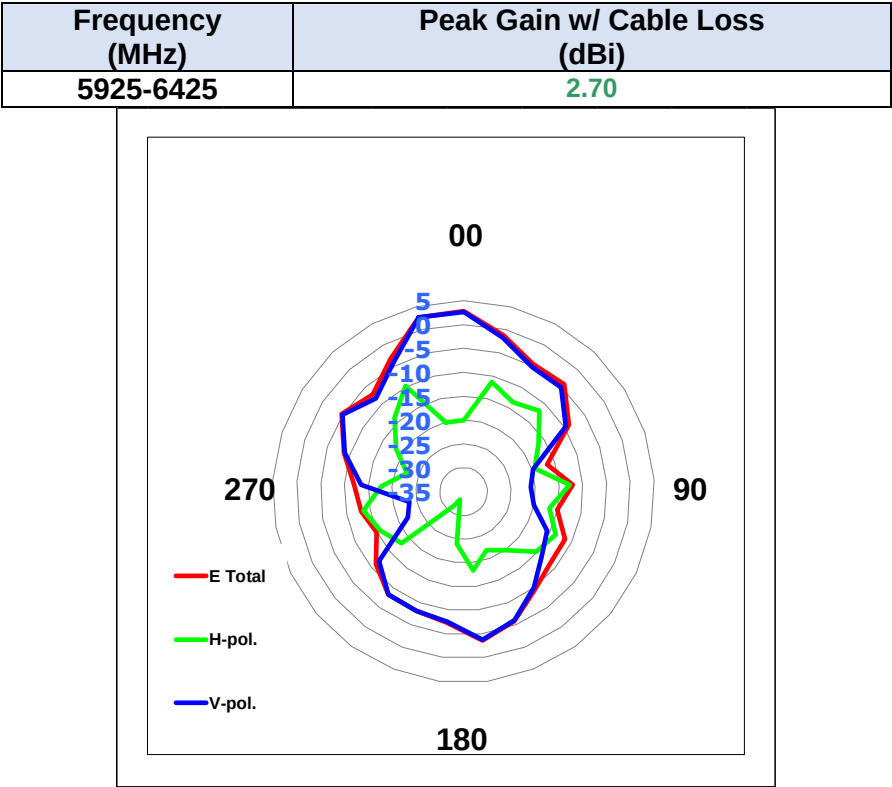
Max Antenna 3D Radiation Pattern 5725-5850 MHz



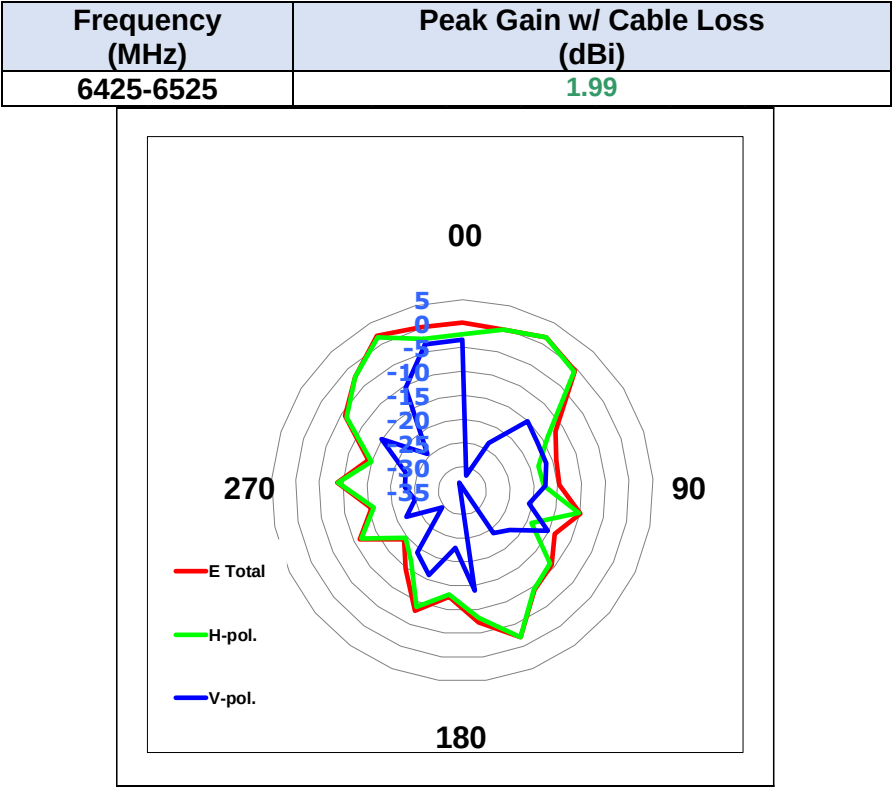
Max Antenna 3D Radiation Pattern 5850-5895 MHz



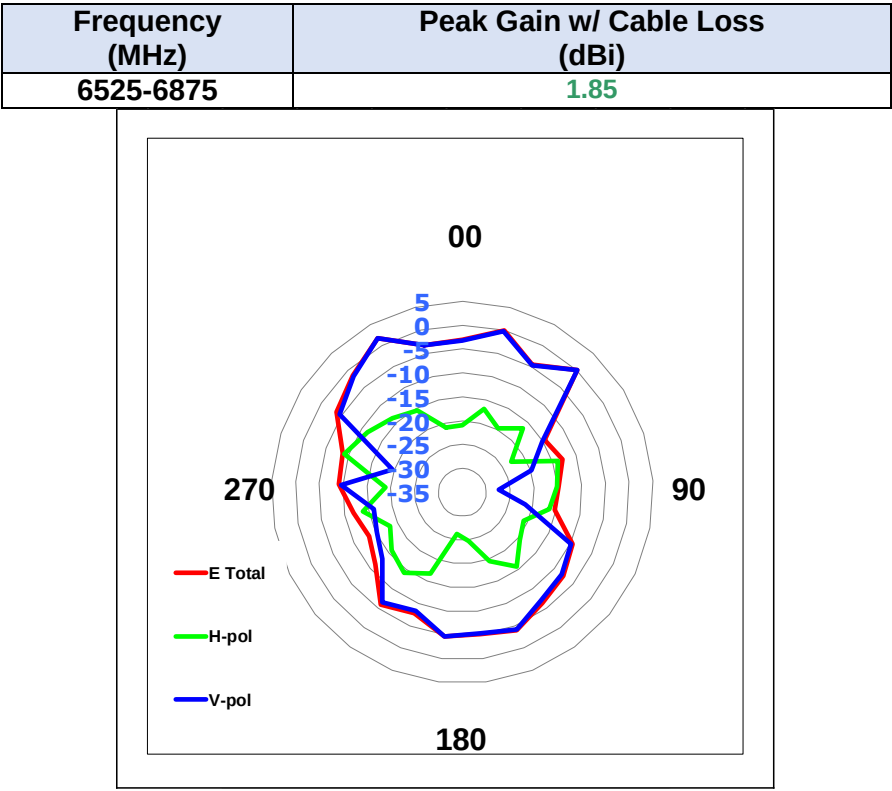
Max Antenna 3D Radiation Pattern 5925-6425 MHz



Max Antenna 3D Radiation Pattern 6425-6525 MHz



Max Antenna 3D Radiation Pattern 6525-6875 MHz



Max Antenna 3D Radiation Pattern 6875-7125 MHz

