Regulatory WLAN Antenna Information

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-C164	Yes	Notebook PC	5.32mm

*******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/Tx1)	**Antenna Part number** (Aux/Tx2)
Wistron Neweb Corporation	PIFA	81EABP15.G41	81EABP15.G42

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	0.79	-0.53	-0.12	0.66	1.06	0.71	0.77	0.34	0.04	-0.4
Aux	0.16	0.78	0.32	-0.02	0.16	0.75	0.64	-0.49	1.29	0.66

Module Information	
Model	**Form factor and suffixes**
RTL8852CE	Realtek Champagne 8852CE Wi-Fi 6E +Bluetooth 5.3 M.2 2230 PCI-e+USB WW WLAN

Vendor: Wistron NeWeb Corporation Headquarters (Taiwan)
Tel: +886-3-666-7799
Fax: +886-3-666-7711
Address: Wistron NeWeb Corporation Headquarters (Taiwan) Add: 20 Park Avenue II (or Yuanchiu 2nd Rd.), Hsinchu Science Park, Hsinchu 300, Taiwan
https://www.wnc.com.tw

Antenna Information

Section 1. Antenna Assembly Specifications

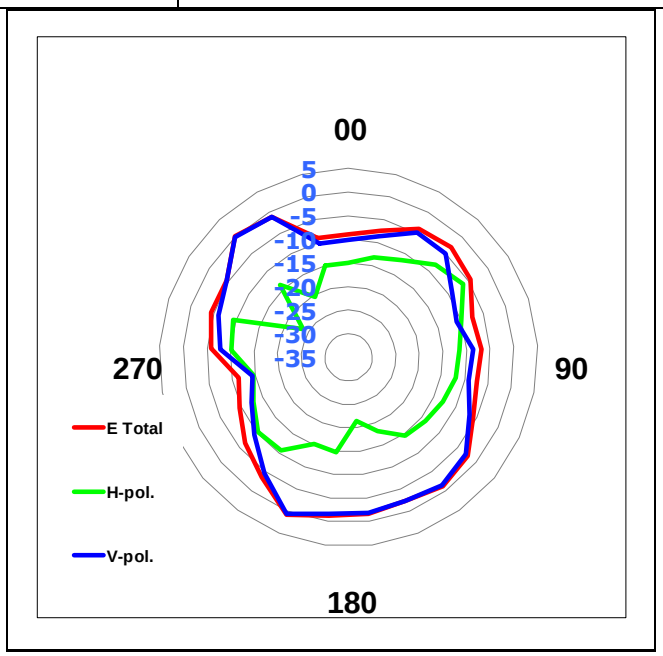
1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E * Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
(P/N:81EABP15.G41) Main Antenna	Wistron Neweb Corporation	PIFA	P/N: MHF-4L PLUG -20565-001R-13 50 ohm Coaxial length: 127cm diameter: 1.13mm	2400-2495	0.79	1.14	3	0.35
				5150-5250	-0.53	-0.01	3	0.52
				5250-5350	-0.12	0.41	3	0.53
				5470-5725	0.66	1.2	3	0.54
				5725-5850	1.06	1.61	3	0.55
				5850-5895	0.71	1.26	3	0.55
				5925-6425	0.77	1.34	3	0.57
				6425-6525	0.34	0.93	3	0.59
				6525-6875	0.04	0.64	3	0.60
				6875-7125	-0.4	0.22	3	0.62
(P/N: 81EABP15.G42) Aux Antenna	Wistron Neweb Corporation	PIFA	P/N: MHF-4L PLUG -20565-001R-13 50 ohm Coaxial length: 191cm diameter: 1.13mm	2400-2495	0.16	0.69	3	0.53
				5150-5250	0.78	1.57	3	0.79
				5250-5350	0.32	1.11	3	0.79
				5470-5725	-0.02	0.79	3	0.81
				5725-5850	0.16	0.99	3	0.83
				5850-5895	0.75	1.58	3	0.83
				5925-6425	0.64	1.5	3	0.86
				6425-6525	-0.49	0.39	3	0.88
				6525-6875	1.29	2.19	3	0.90
				6875-7125	0.66	1.59	3	0.93

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

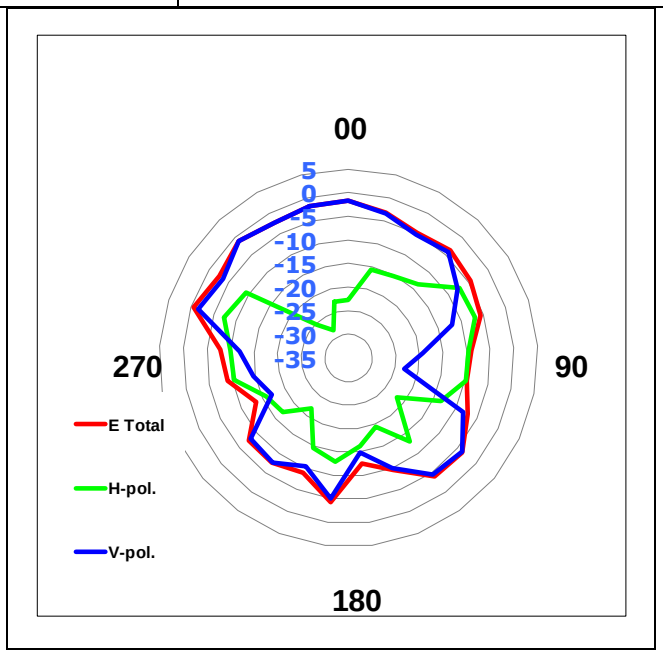
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	0.79



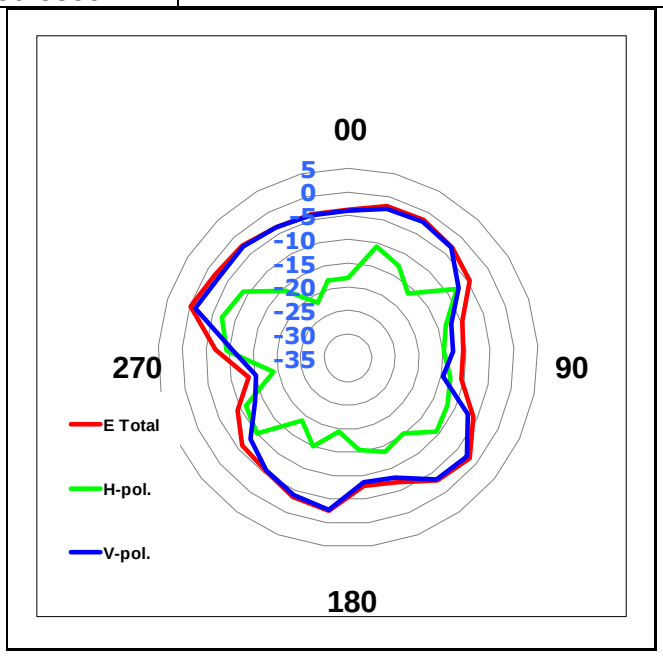
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	-0.53



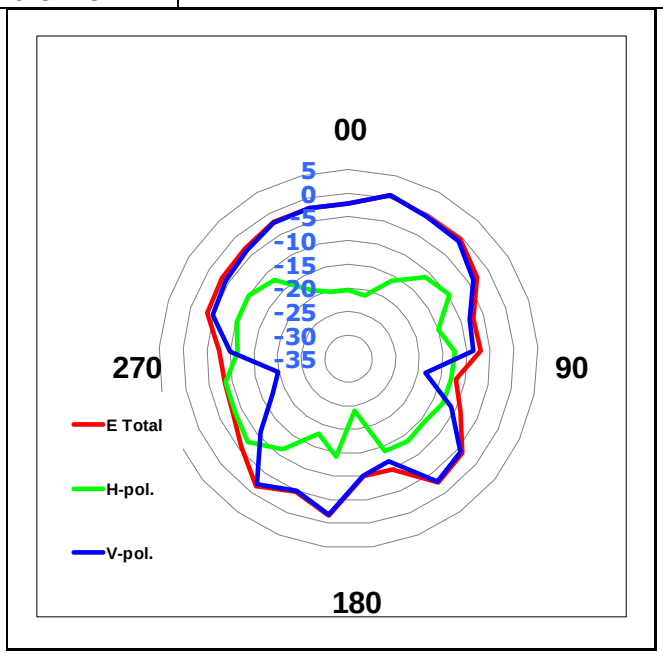
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	-0.12



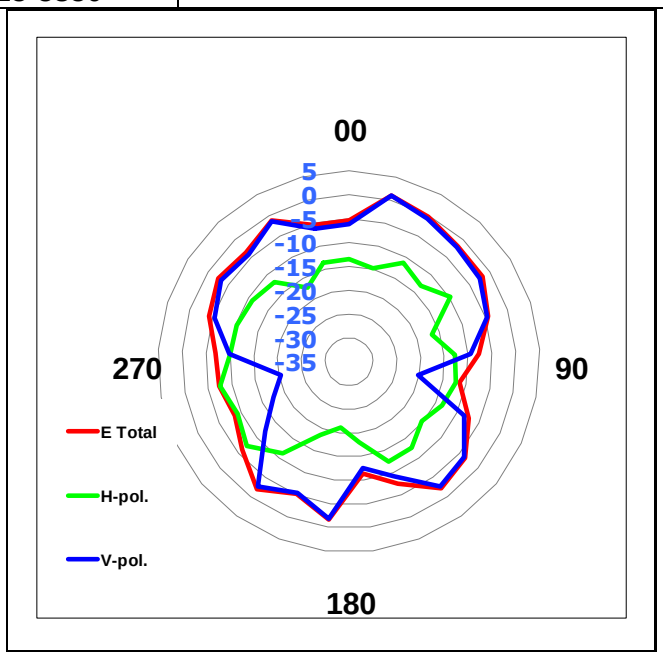
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	0.66



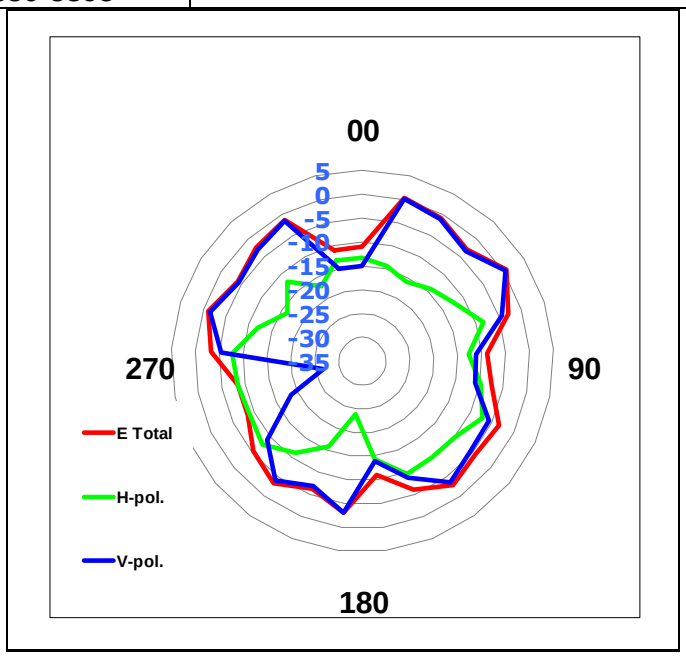
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.06



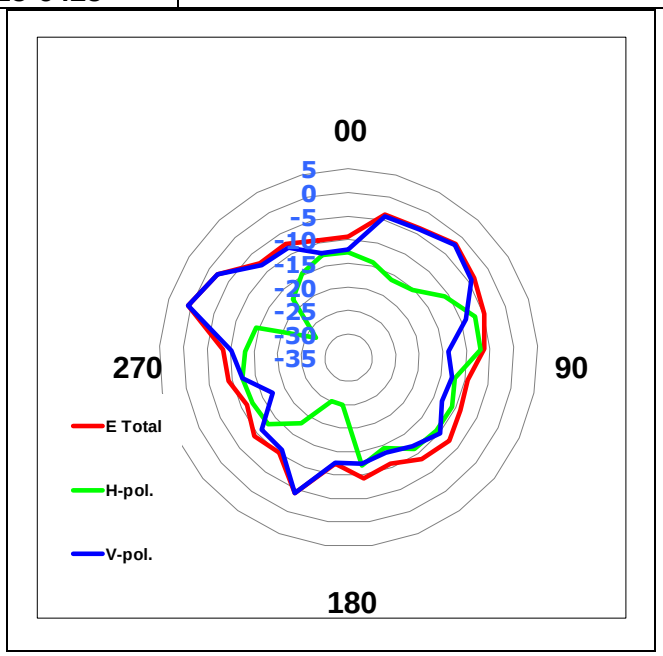
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	0.71



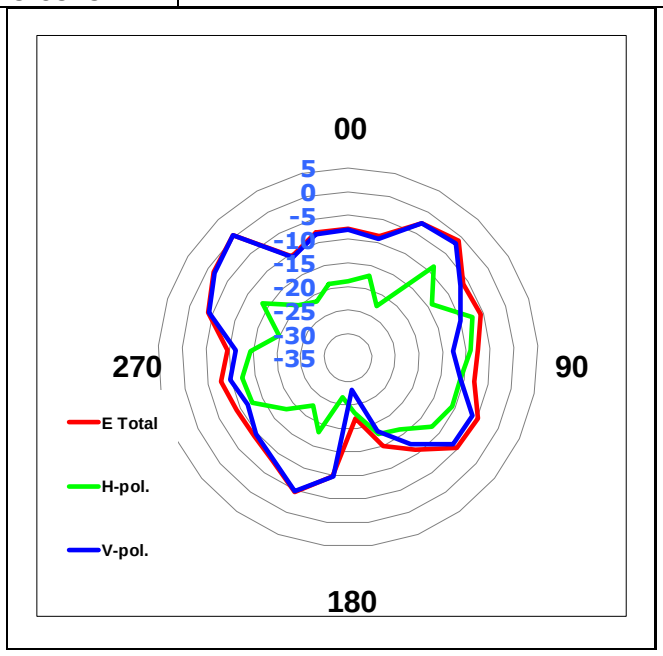
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	0.77



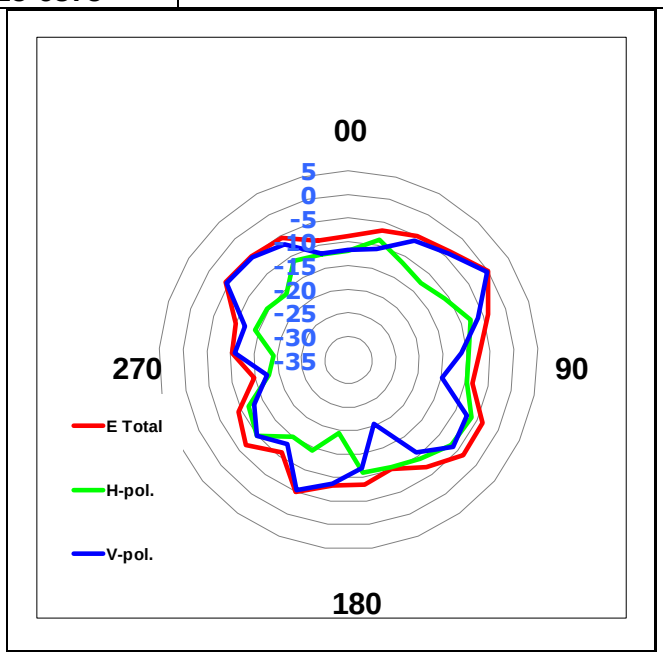
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	0.34



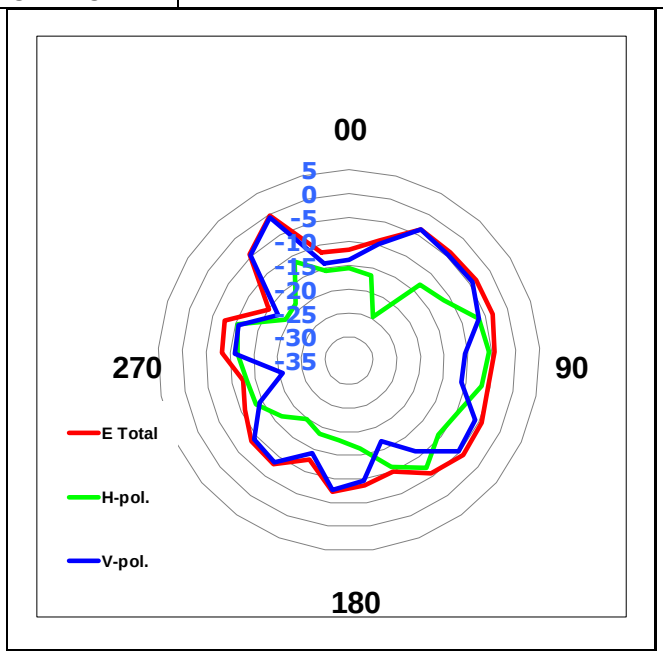
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	0.04



Max Antenna 3D Radiation Pattern 6875-7125 MHz

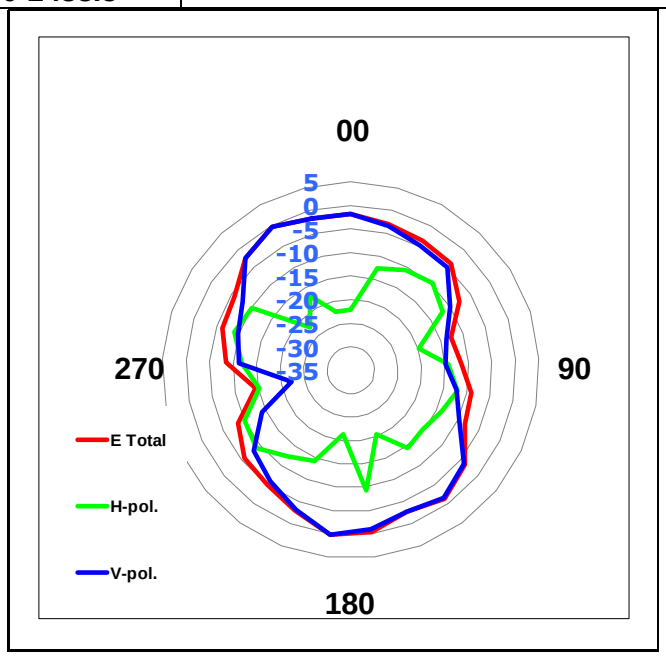
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	-0.4



Auxiliary Antenna

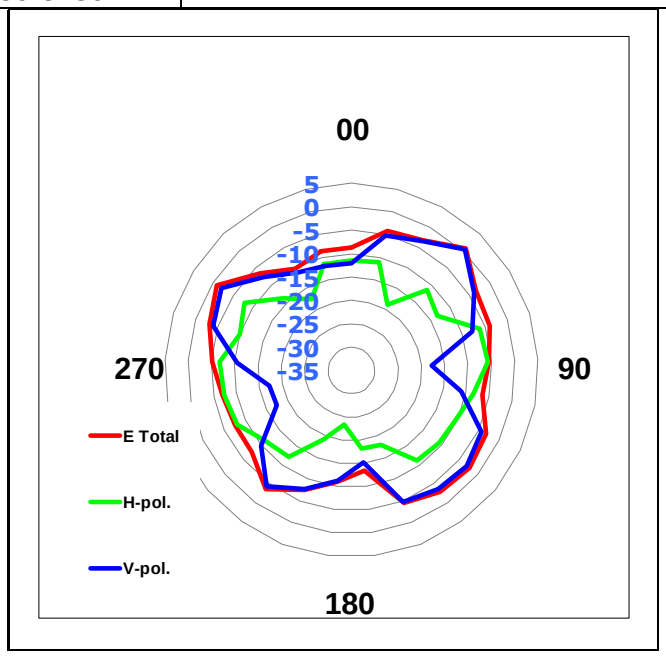
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	0.16



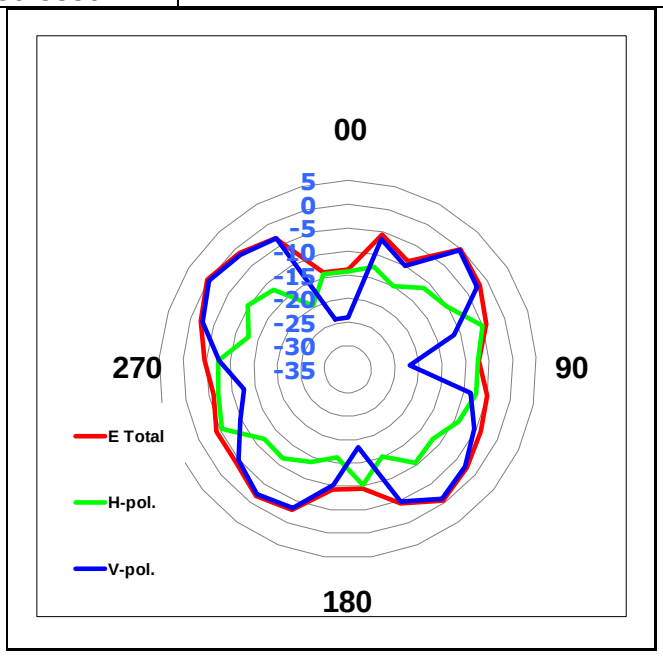
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	0.78



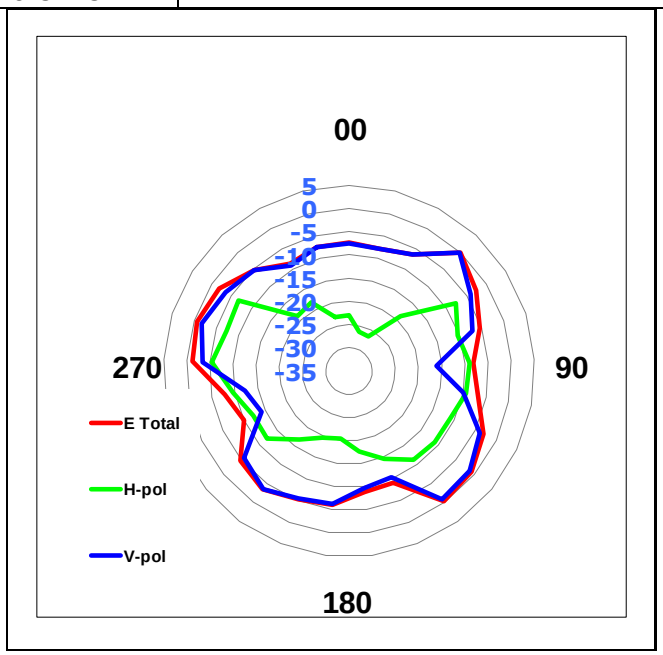
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	0.32



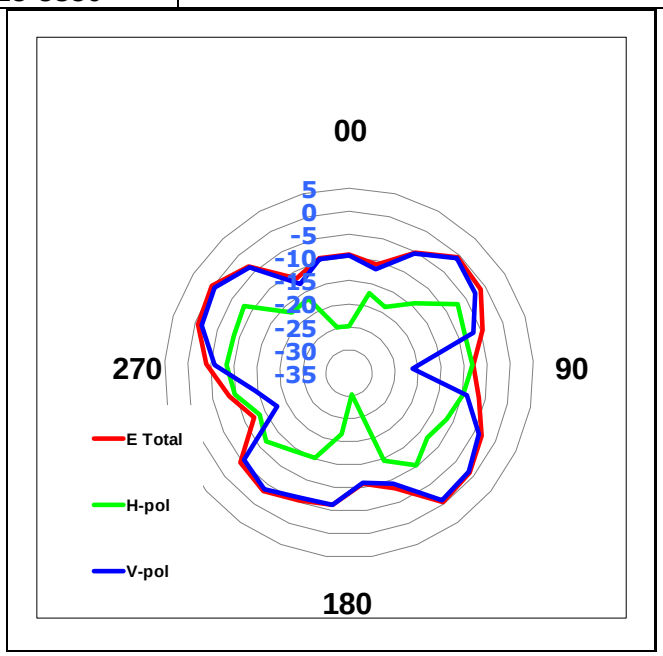
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	-0.02



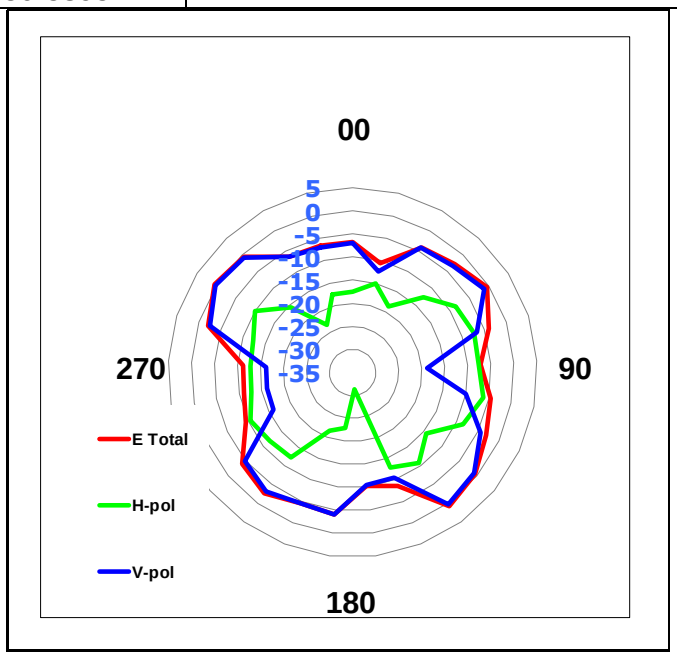
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	0.16



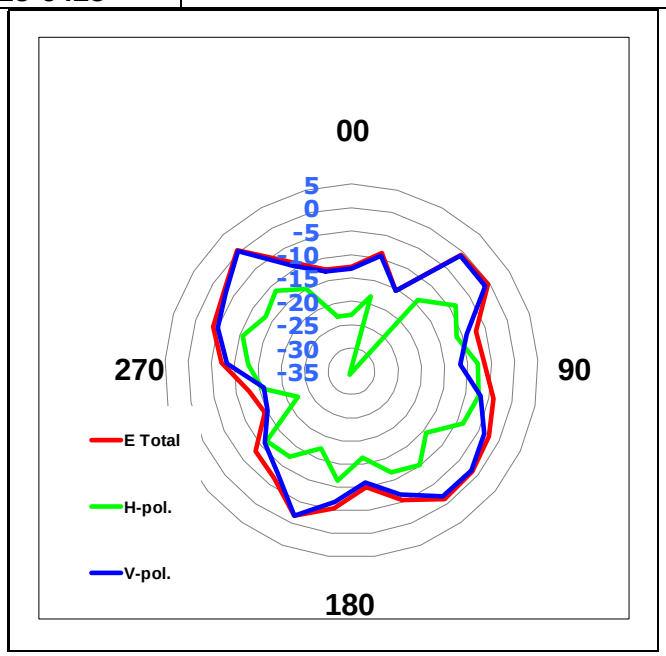
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	0.75



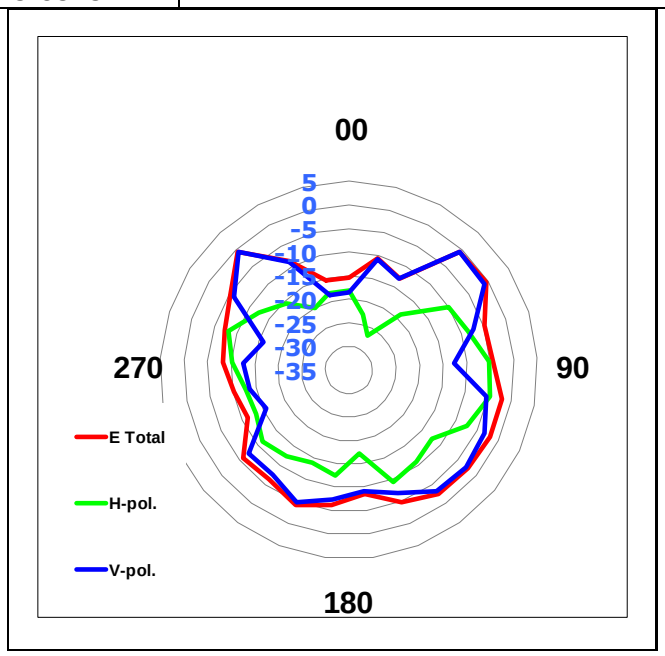
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	0.64



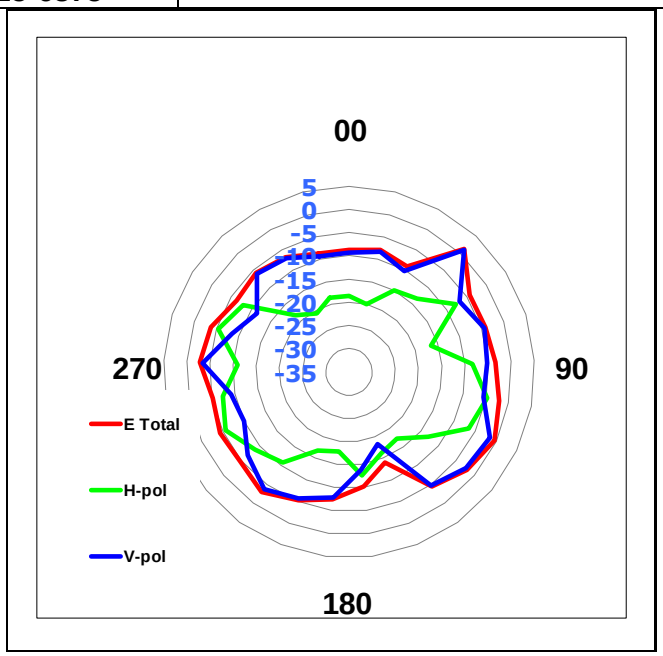
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	-0.49



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.29



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	0.66