

# 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)				
High-Tek Electronics Co., Ltd		PIFA	DC33002SH00 (0ACCN022003N)				DC33002SH10 (0ACCN022004N)				
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	-0.84	2.78	2.78	2.19	2.07	-1.50	2.76	-1.36	-0.40	-0.63	
Aux	-1.25	2.09	2.77	1.95	0.97	0.97	0.18	1.64	2.73	2.84	
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: Hua Cheng Technology Co.,Ltd.

Tel: +886-2-26961996

Address: 17F., No.100, Sec.1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22102 Taiwan(R.O.C.)

<https://www.hightek.com.tw>

# Antenna Information

## Section 1. Antenna Assembly Specifications

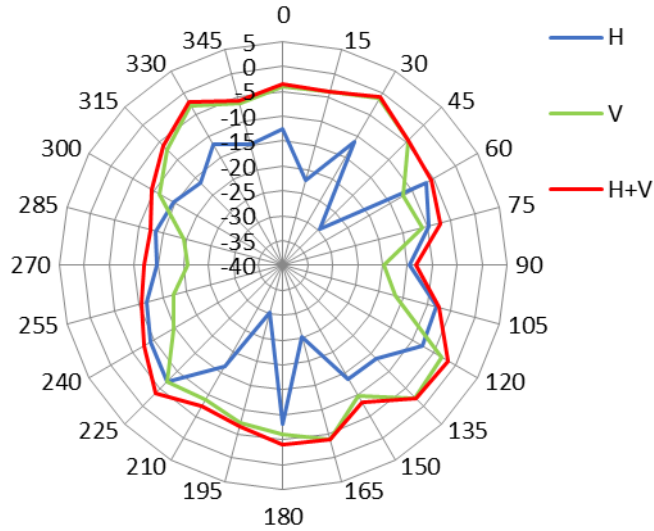
1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E * Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
P/N: DC33002SH00 (OACCN022003N) Main Antenna (TX1)	High-Tek Electronics Co., Ltd	PIFA	Connector:SpeedTech C87P115-00002-H 50 Ohm Coaxial Length: 127 mm Diameter:1.13 mm	2400-2495	-0.84	-0.46	3.00	0.38
				5150-5250	2.78	3.33	3.00	0.55
				5250-5350	2.78	3.33	3.00	0.55
				5470-5725	2.19	2.78	3.00	0.59
				5725-5850	2.07	2.67	3.00	0.60
				5850-5895	-1.50	-0.90	3.00	0.60
				5925-6425	2.76	3.38	3.00	0.62
				6425-6525	-1.36	-0.73	3.00	0.63
				6525-6875	-0.40	0.24	3.00	0.64
6875-7125	-0.63	0.05	3.00	0.68				
P/N: DC33002SH10 (OACCN022004N) Aux Antenna (TX2)	High-Tek Electronics Co., Ltd	PIFA	Connector:SpeedTech C87P115-00002-H 50 Ohm Coaxial Length: 191 mm Diameter:1.13 mm	2400-2495	-1.25	-0.67	3.00	0.58
				5150-5250	2.09	2.91	3.00	0.82
				5250-5350	2.77	3.59	3.00	0.82
				5470-5725	1.95	2.83	3.00	0.88
				5725-5850	0.97	1.87	3.00	0.90
				5850-5895	0.97	1.87	3.00	0.90
				5925-6425	0.18	1.11	3.00	0.93
				6425-6525	1.64	2.58	3.00	0.94
				6525-6875	2.73	3.70	3.00	0.97
6875-7125	2.84	3.86	3.00	1.02				

## Section 3. Radiation characteristics of antenna loaded in Host Platform

### Main Antenna

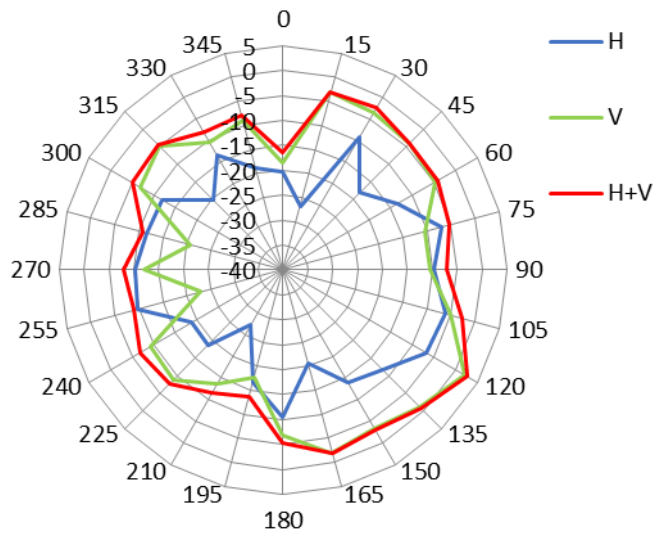
#### Max Antenna 2D Radiation Pattern 2400 – 2495 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2495	-0.84



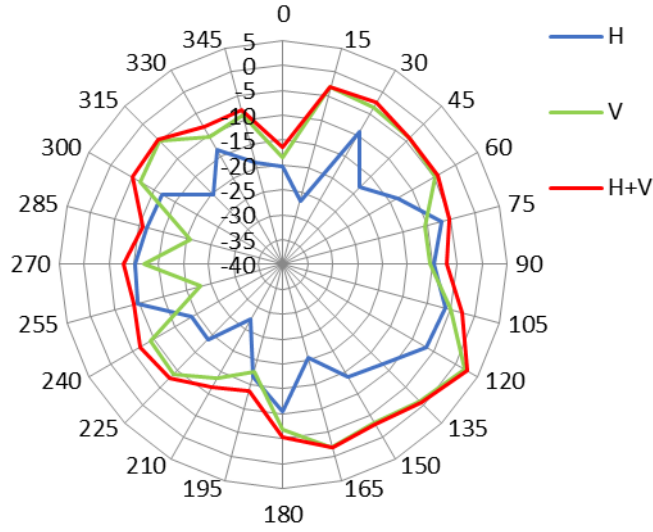
#### Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	2.78



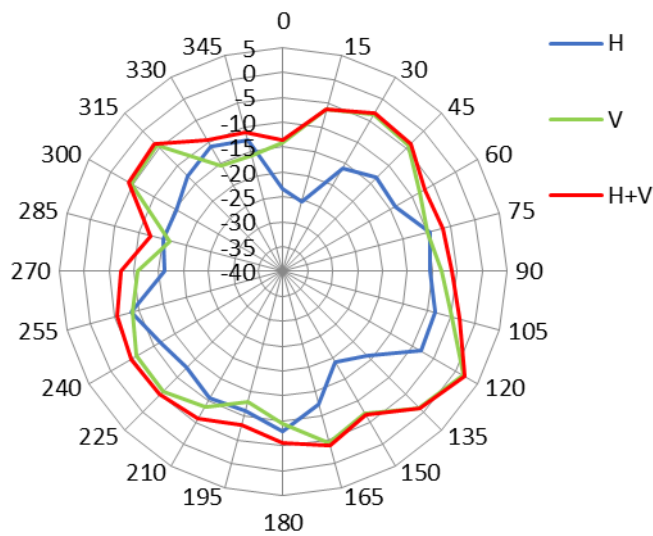
### Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	2.78



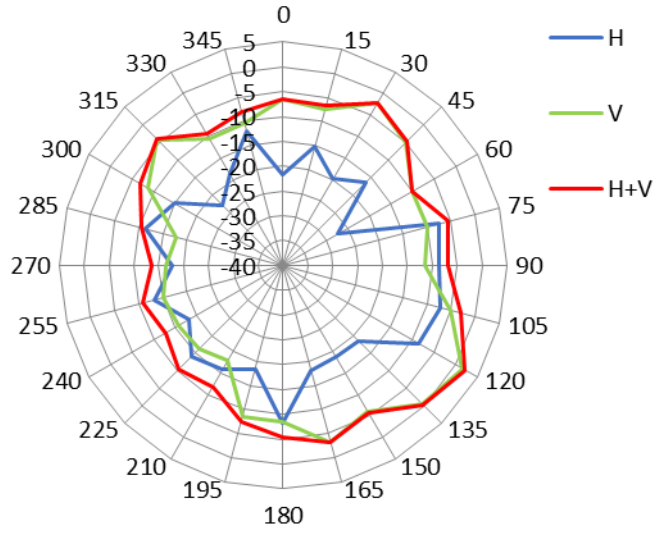
### Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	2.19



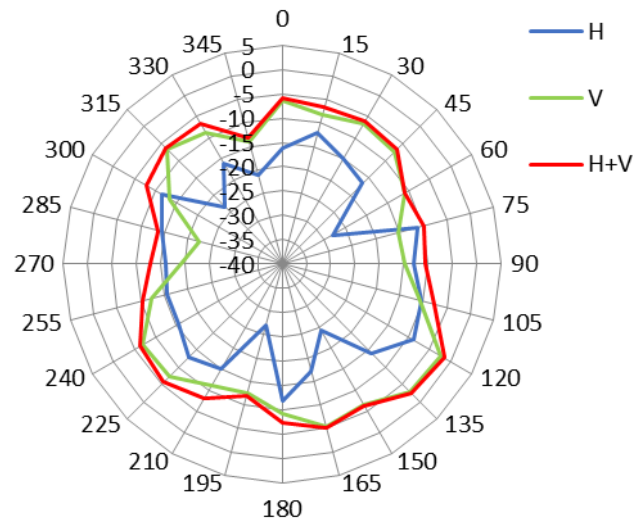
### Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	2.07



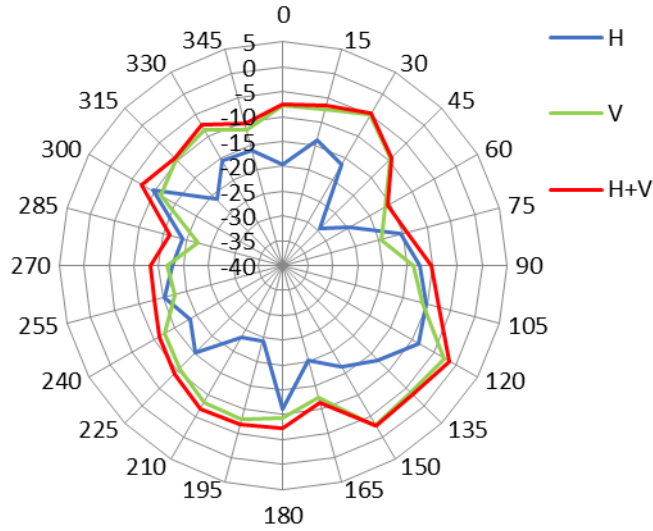
### Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	-1.50



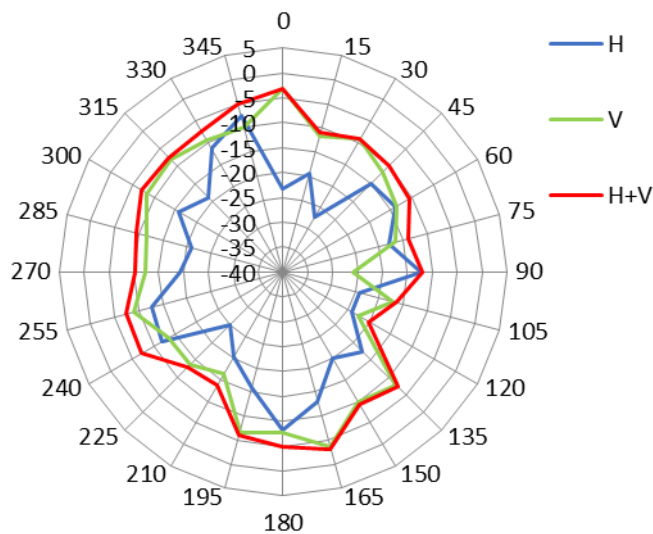
### Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	2.76



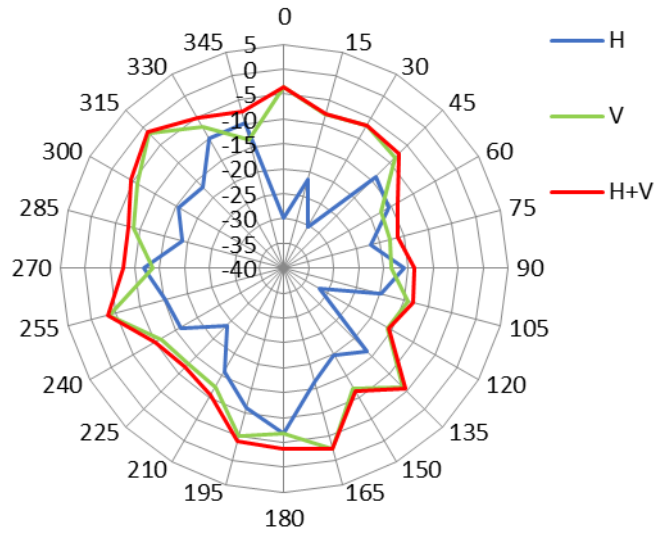
### Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	-1.36



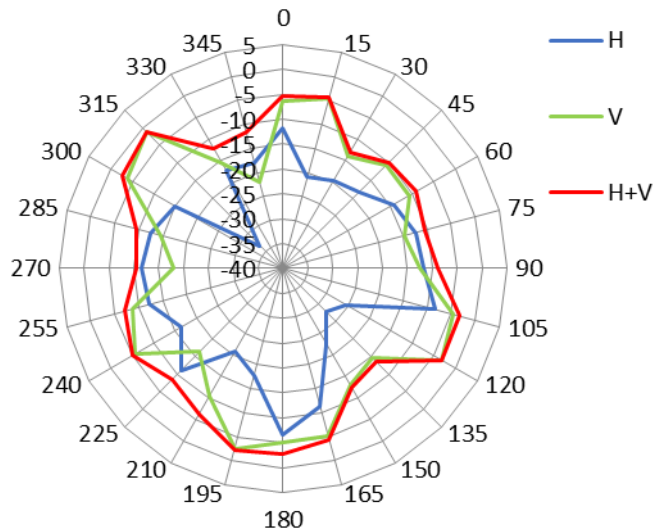
### Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	-0.40



### Max Antenna 2D Radiation Pattern 6875-7125 MHz

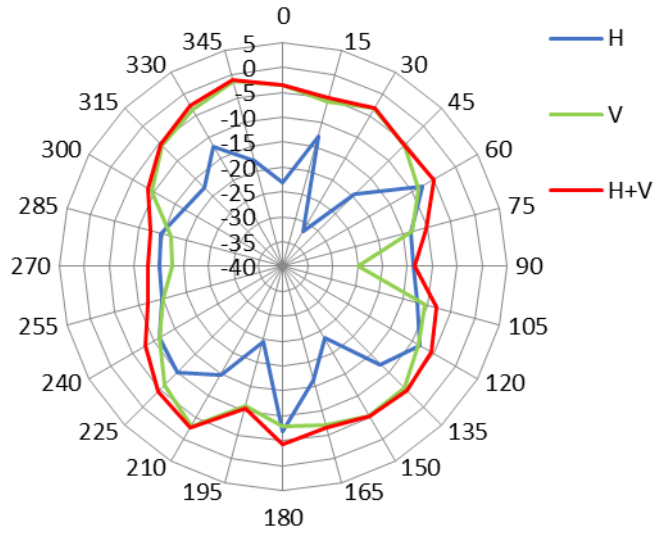
Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	-0.63



## Auxiliary Antenna

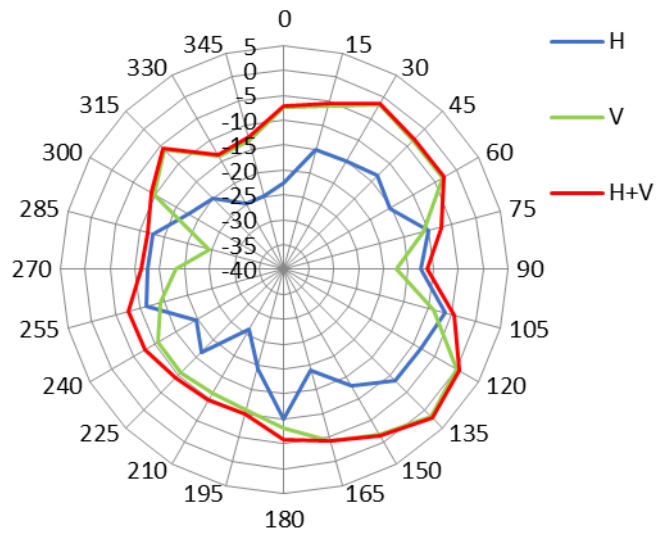
### Max Antenna 2D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2483.5	-1.25



### Max Antenna 2D Radiation Pattern 5150-5250 MHz

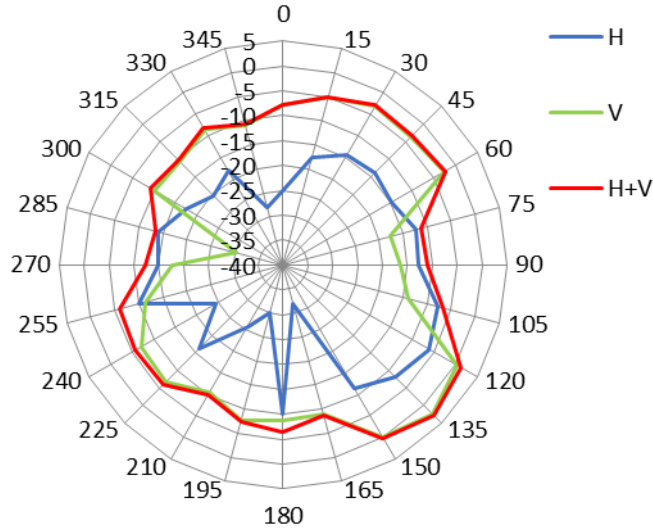
Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	2.09





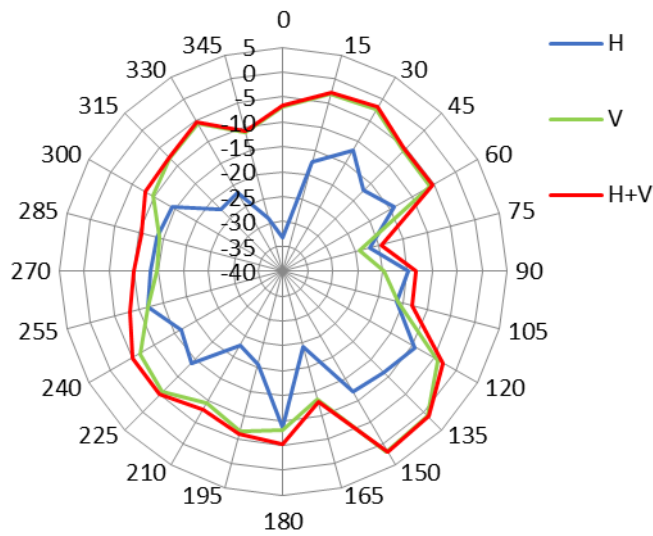
### Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	2.77



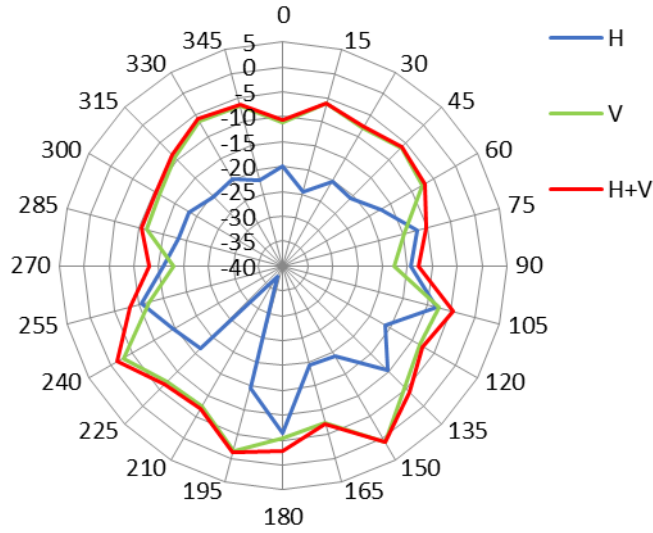
### Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	1.95



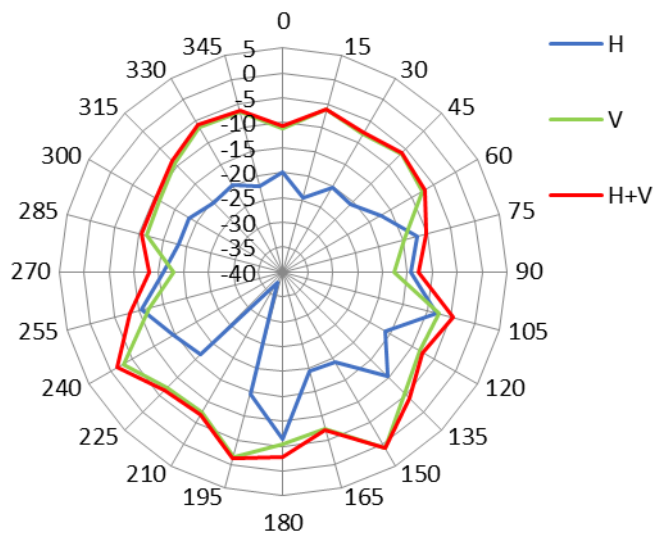
### Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	0.97



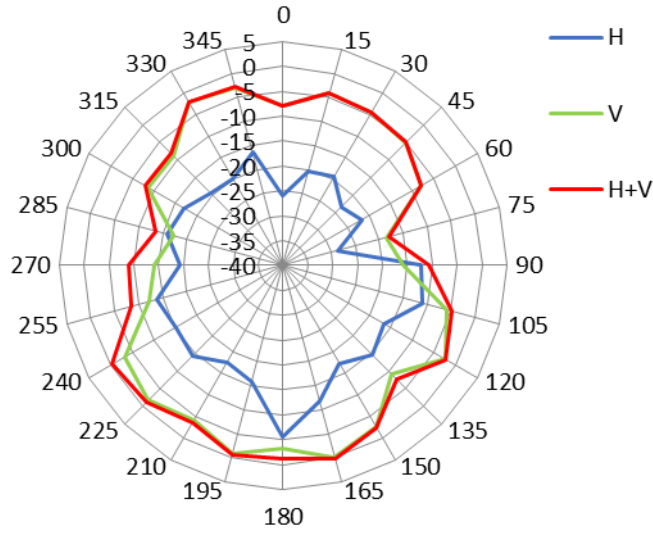
### Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	0.97



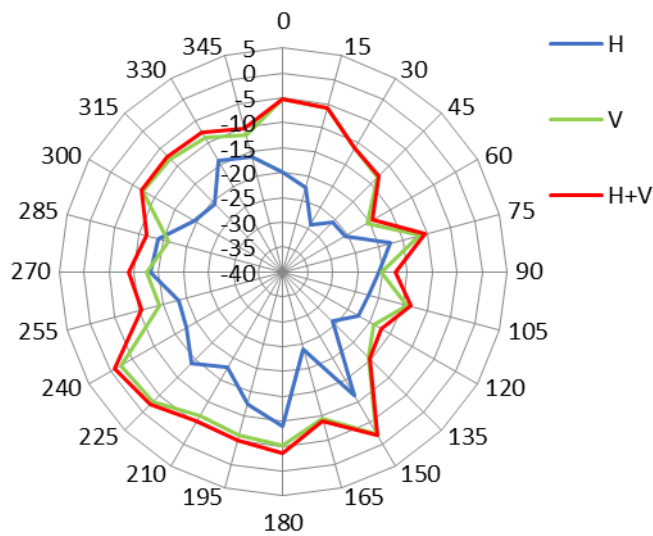
### Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	0.18



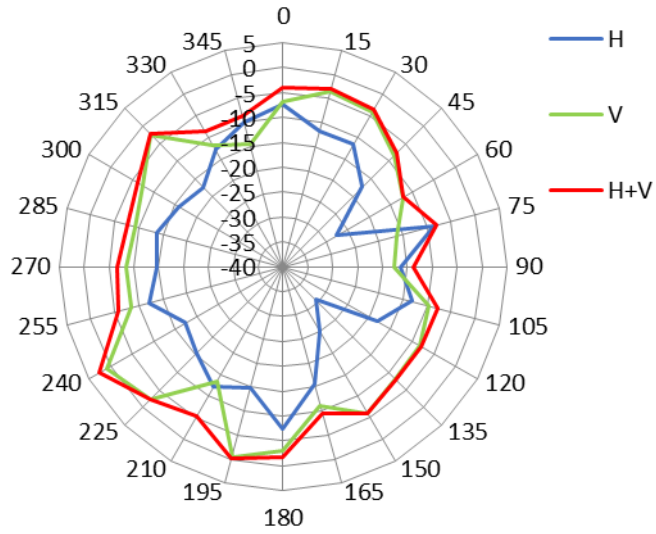
### Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	1.64



### Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	2.73



### Max Antenna 2D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	2.84

