

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.	Wistron		TPN-W174		No		Convertible PC		1.72	
*****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		025.902N3.0001 (81EAB615.GAV)			025.902N4.0001 (81EAB615.GAW)			
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	2.33	2.49	2.66	2.29	2.53	2.07	2.07	2.26	2.26	2.27
Aux	2.46	2.54	2.60	2.25	2.30	2.08	2.53	2.43	2.23	2.73
Module Information										
Model		Form factor and suffixes								
RTL8922AE		Realtek Wi-Fi 7 RTL8922AE-VS QS Chivas								
MT7925B22M		Torres, Wi-Fi 7 Mediatek Wi-Fi 7 MT7925 + BT6.0 (802.11be 2x2)								
Antenna Vendor Address										
20 Park Avenue II, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.										

Antenna manufacturer	Company name	WNC
	Address	No. 20, Yuanqu 2nd Rd., Baoshan Township, Hsinchu County 300092 , Taiwan (R.O.C.)
Test location	Company name	SGS
	Address	1F., No. 8, Aly. 15, Ln. 120, Sec. 1, Neihs Rd., Neihs Dist., Taipei City , Taiwan (R.O.C.)
Test Personnel	Name(Full name)	Willy.Lee
	E-mail	Willy.Lee@sgs.com
	Tel/Mobile	+886 2299 3279 #1690
Testing date		2024/10/09

Table of contents

1. Applicable test method
2. Test & System Description
 - a. Test setup
 - b. Equipment list
3. Setup photo

[Section 1. Antenna Assembly Specifications](#)

[Section 2. Dimensioned Photos or Drawings of Antennas](#)

[Section 3. Radiation characteristics of antenna loaded in Host Platform](#)

[Section 4. Antenna Host Platform Location Information](#)

[Section 5. Antenna dimensional information for SAR evaluation](#)

[Section 6. Diagram Example of Co-Location Antenna Separation](#)

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.

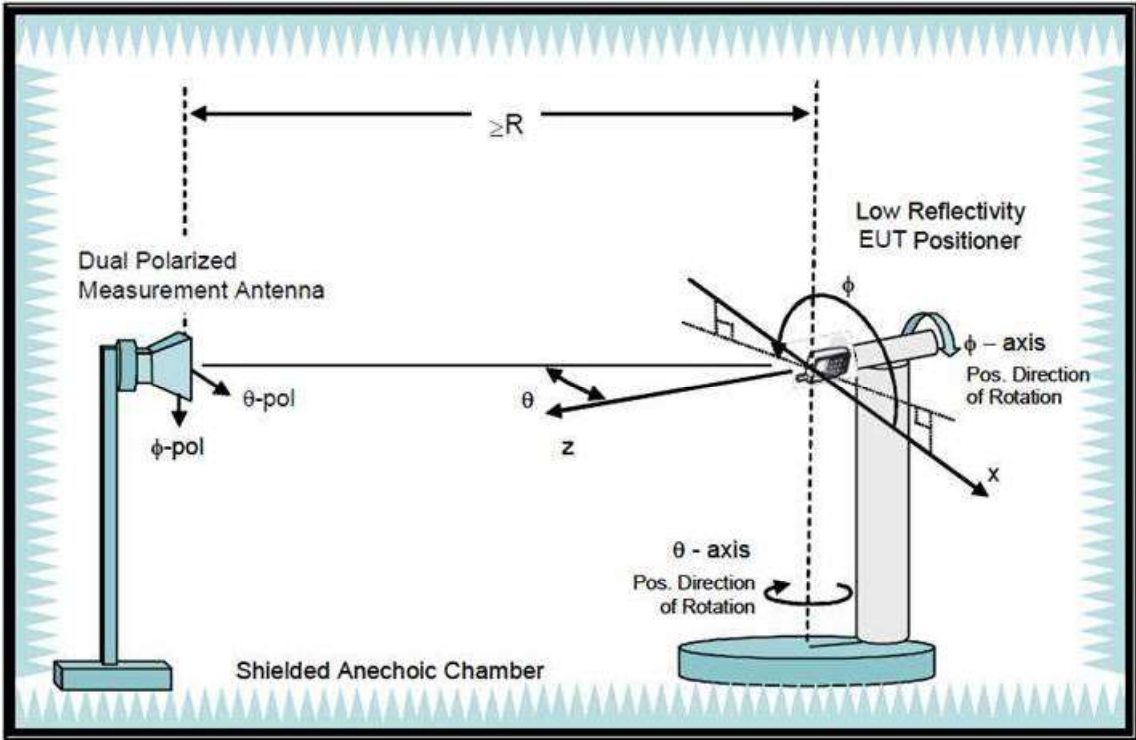
The Conical Cut method requires the ability of the Measurement Antenna to be physically rotated in the theta plane (overhead) of the EUT for implementations using a single Measurement Antenna, Eleven conical cuts are required to capture data at every 15 degrees from the EUT, with the top (0 degrees)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



b. Equipment list

Test location: 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road NeiHu District, Taipei City 11493, Taiwan

Testing date: 2024/07/31

Equipment list

Equipment Description	Manufacturer	Identification no.	Current Calibration	Next Calibration
			Date	Date
Network Analyzer	Agilent	E5071C	2025/01/07	2026/01/06
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	2025/03/03	2026/03/02
ETS OTA Chamber	ETS-Lindgren	AMS-8500	2025/03/03	2026/03/02
Cable	ETS-Lindgren	RFC SMS-100- NMR Series	N/A	N/A

Note: Chamber calibration included full set of implement

Antenna Information

Section 1. Antenna Assembly Specifications

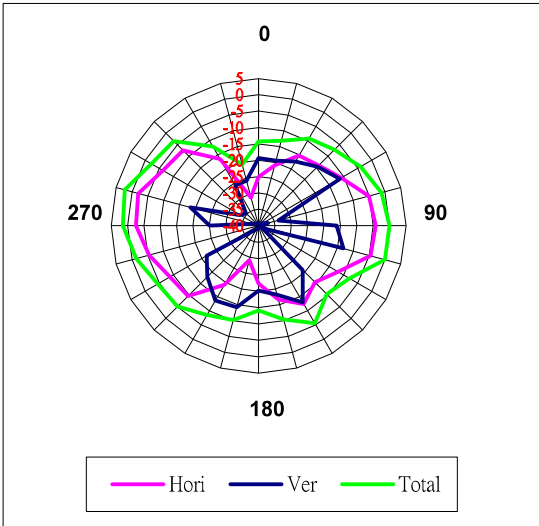
1A	1B	1C	1D		1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
P/N: 025.902N3.0001 (81EAB615.GAV) Main Antenna (TX2)	WNC	PIFA	(P/N: 20632-001R-37) 50 ohm Coaxial length: 573mm diameter: 1.37mm	2400-2495	2.33	3.38	3	1.05
				5150-5250	2.49	4.10	3	1.61
				5250-5350	2.66	4.28	3	1.62
				5470-5725	2.29	3.99	3	1.70
				5725-5850	2.53	4.28	3	1.70
				5850-5895	2.07	3.79	3	1.72
				5925-6425	2.07	3.84	3	1.77
				6425-6525	2.26	4.04	3	1.78
				6525-6875	2.26	4.06	3	1.80
				6875-7125	2.27	4.09	3	1.82
P/N: 025.902N4.0001 (81EAB615.GAW) Aux Antenna (TX1)	WNC	PIFA	(P/N: 20632-001R-37) 50 ohm Coaxial length: 624mm diameter: 1.37mm	2400-2495	2.46	3.60	3	1.14
				5150-5250	2.54	4.29	3	1.75
				5250-5350	2.60	4.36	3	1.76
				5470-5725	2.25	4.06	3	1.81
				5725-5850	2.30	4.11	3	1.81
				5850-5895	2.08	3.92	3	1.84
				5925-6425	2.53	4.44	3	1.91
				6425-6525	2.43	4.39	3	1.96
				6525-6875	2.23	4.30	3	2.07
				6875-7125	2.73	4.85	3	2.12

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

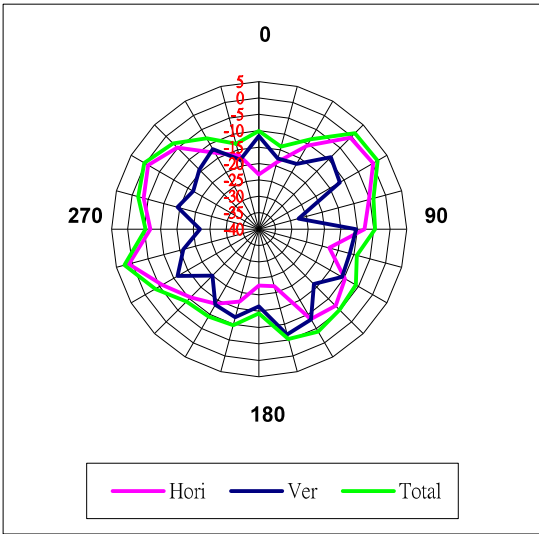
Max Antenna 2D Radiation Pattern 2400 – 2495 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2495	2.33



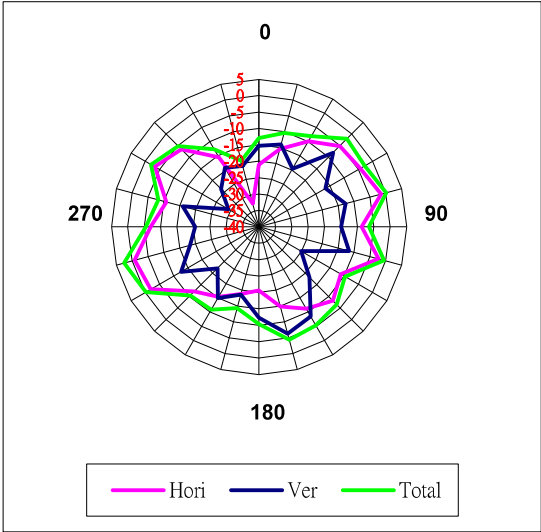
Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	2.49



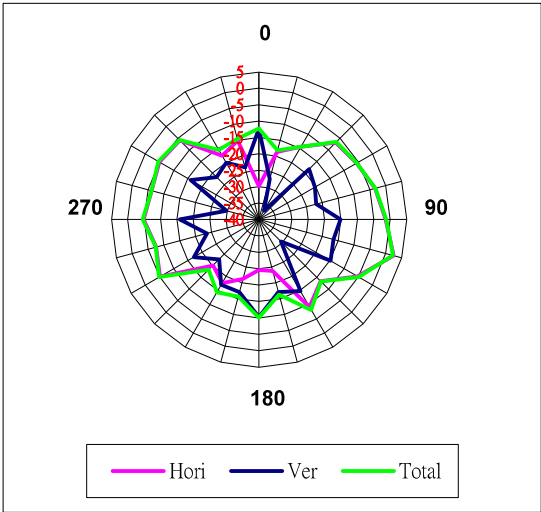
Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	2.66



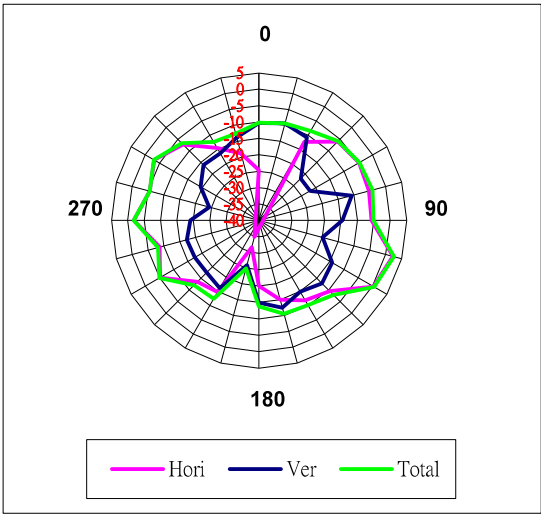
Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	2.29



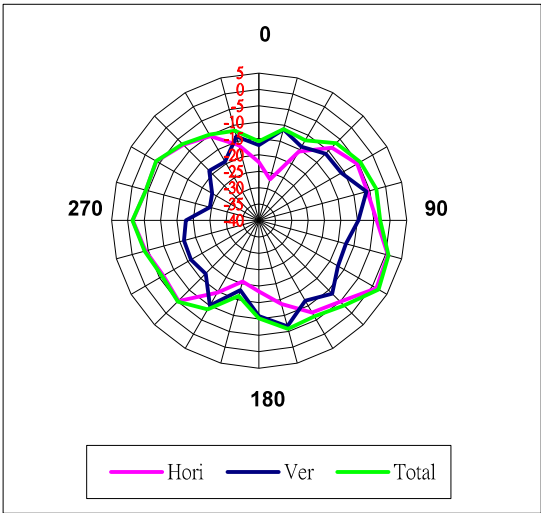
Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	2.53



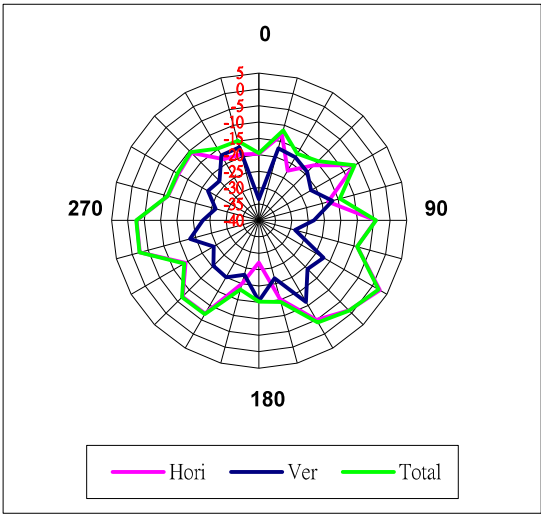
Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	2.07



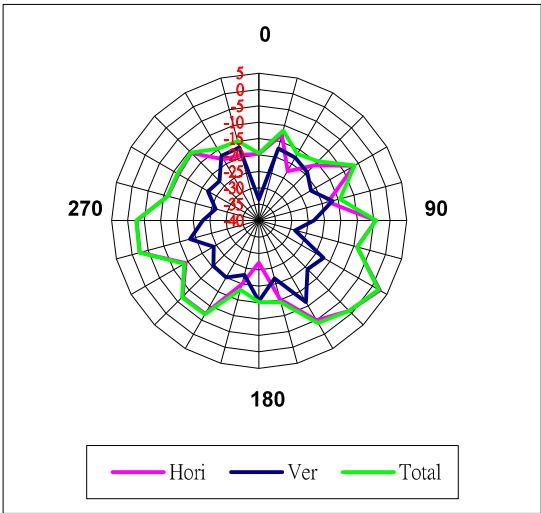
Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	2.07



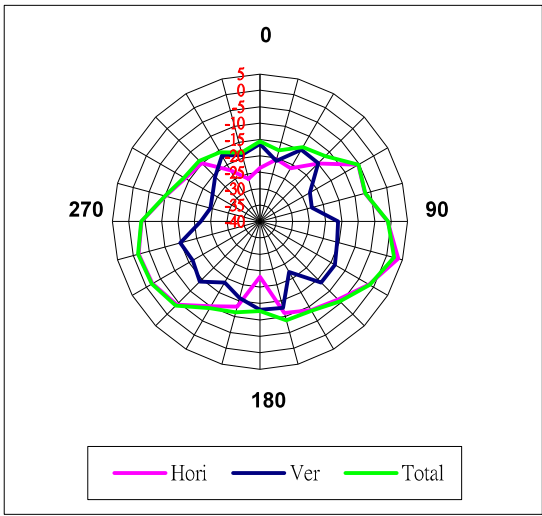
Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	2.26



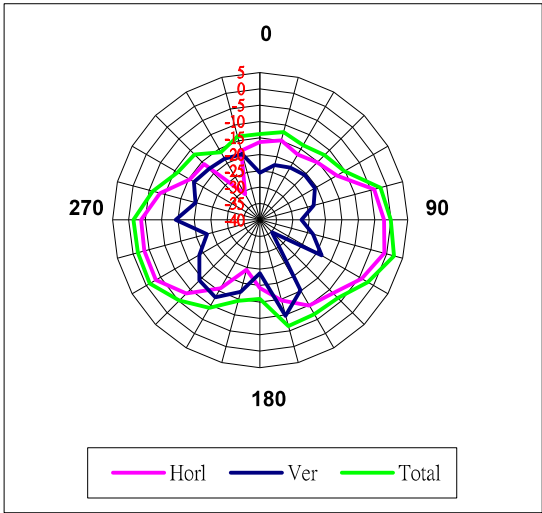
Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	2.26



Max Antenna 2D Radiation Pattern 6875-7125 MHz

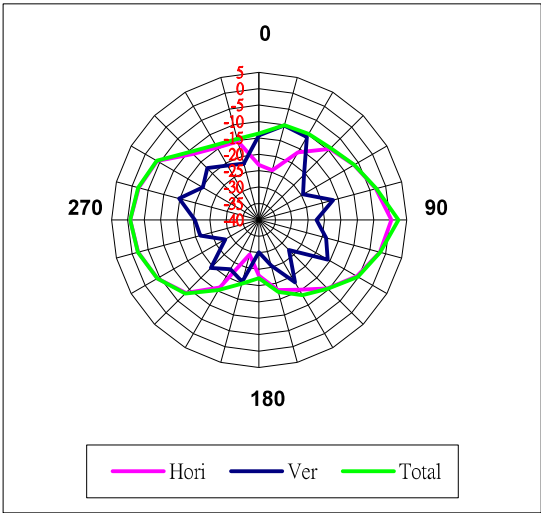
Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	2.27



Aux Antenna

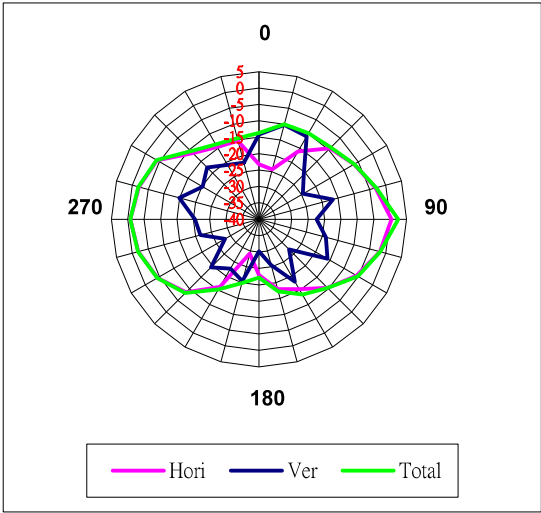
Max Antenna 2D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2483.5	2.46



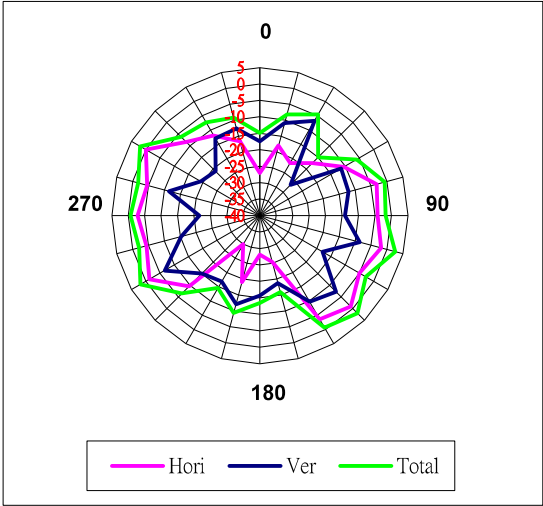
Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	2.54



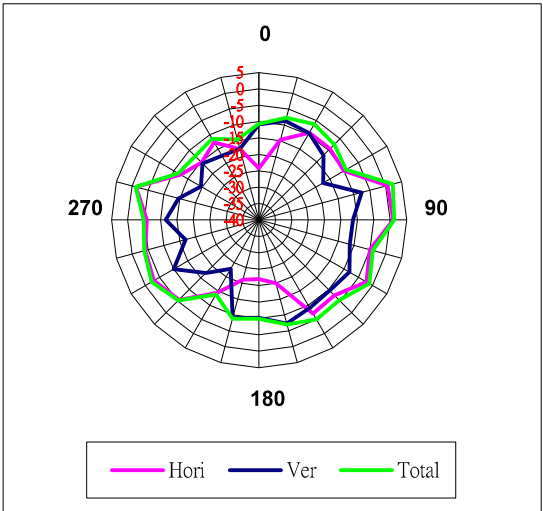
Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	2.60



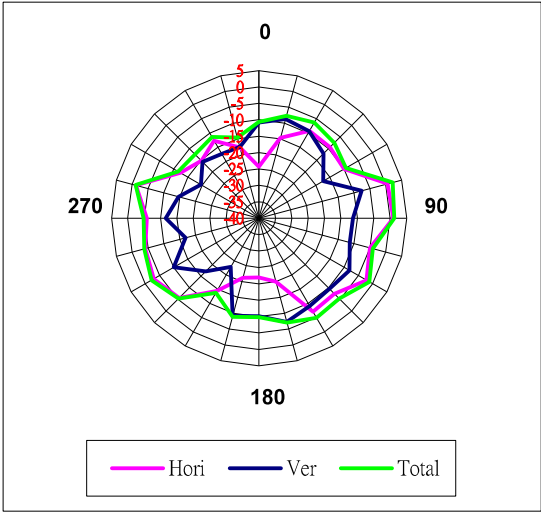
Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	2.25



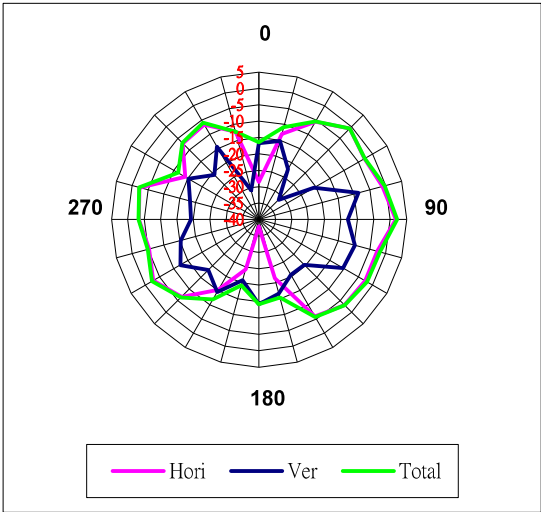
Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	2.30



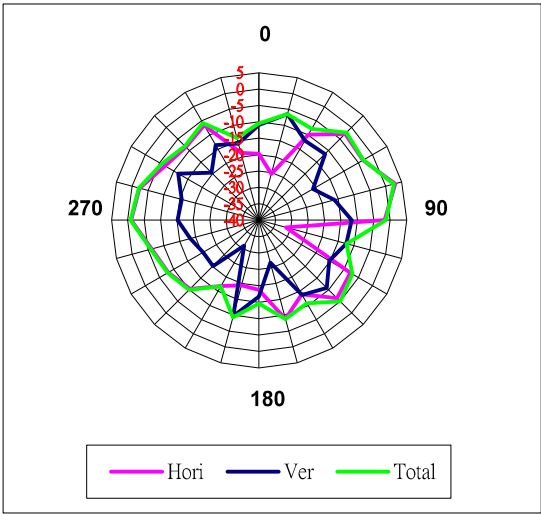
Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	2.08



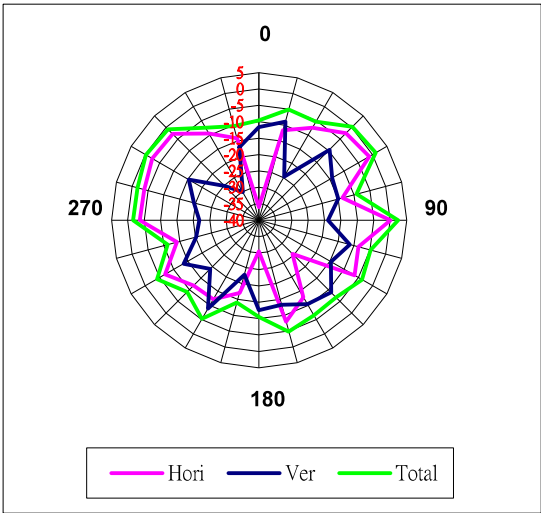
Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	2.53



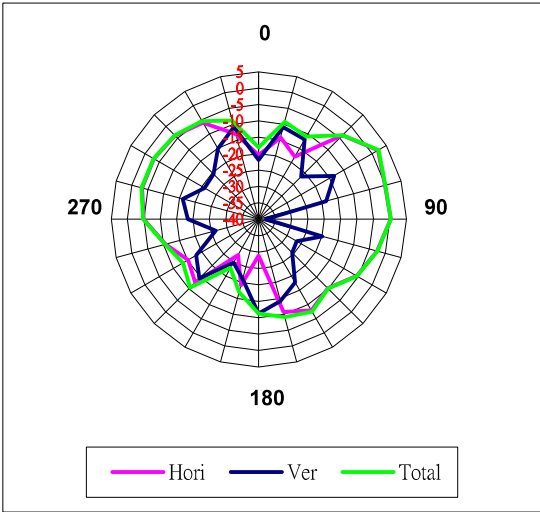
Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	2.43



Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	2.23



Max Antenna 2D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	2.73

