

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-C175		Yes		Convertible PC		2.4	
*****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)		
Wistron NeWeb Corporation		PIFA			DC33002X710 (81EAB615.G21)			DC33002X700 (81EAB615.G22)		
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	2.51	2.68	2.73	2.81	2.54	1.54	2.58	2.58	2.55	1.82
Aux	2.48	2.63	2.43	2.86	2.86	2.79	2.66	2.79	2.71	2.78
Module Information										
Model		Form factor and suffixes								
MT7922A22M		Mediatek Tequini2 RZ616 Wi-Fi 6E +Bluetooth 5.3 M.2 2230 AIM-T 160MHz PCI-e+USB WW WLAN								
MT7925B22M		Mediatek Torres MT7925 M.2 2230 Wi-Fi 7 +Bluetooth 5.4 WW WLAN								
Antenna vendor Address										
NO. 20, PARK AVENUE II , HSINCHU SCIENCE PARK, HSINCHU 30844, TAIWAN										

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:



Antenna Information

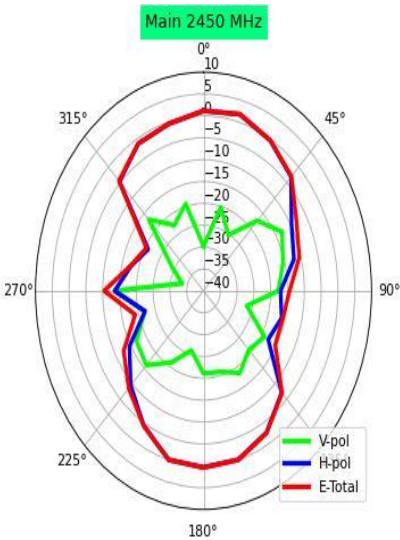
Section 1. Antenna Assembly Specifications

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: DC33002X710 (81EAB615.G21) Main Antenna (TX2)	Wistron NeWeb Corporation	PIFA	50 ohm Coaxial length: 430mm diameter: 1.37mm Connector Type: IPEX MHF-4L 20632-001R-37	2400-2495	2.51	3.6	3	1.09
				5150-5250	2.68	4.31	3	1.63
				5250-5350	2.73	4.37	3	1.64
				5470-5725	2.81	4.49	3	1.68
				5725-5850	2.54	4.25	3	1.71
				5850-5895	1.54	3.26	3	1.72
				5925-6425	2.58	4.35	3	1.77
				6425-6525	2.58	4.41	3	1.83
				6525-6875	2.55	4.42	3	1.87
				6875-7125	1.82	3.75	3	1.93
P/N: DC33002X700 (81EAB615.G22) Aux Antenna (TX1)	Wistron NeWeb Corporation	PIFA	50 ohm Coaxial length: 515mm diameter: 1.37mm Connector Type: IPEX MHF-4L 20632-001R-37	2400-2495	2.48	3.80	3	1.32
				5150-5250	2.63	4.59	3	1.96
				5250-5350	2.43	4.41	3	1.98
				5470-5725	2.86	4.89	3	2.03
				5725-5850	2.86	4.92	3	2.06
				5850-5895	2.79	4.87	3	2.08
				5925-6425	2.66	4.80	3	2.14
				6425-6525	2.79	5	3	2.21
				6525-6875	2.71	4.97	3	2.26
				6875-7125	2.78	5.11	3	2.33

Section 3. Radiation characteristics of antenna loaded in Host Platform
Main Antenna

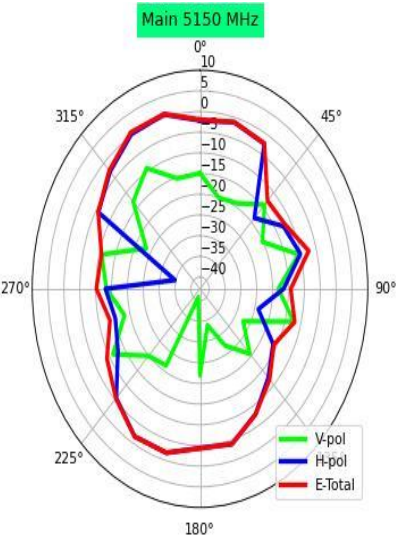
Max Antenna 2D Radiation Pattern2400-2495 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
2400-2495	2.51



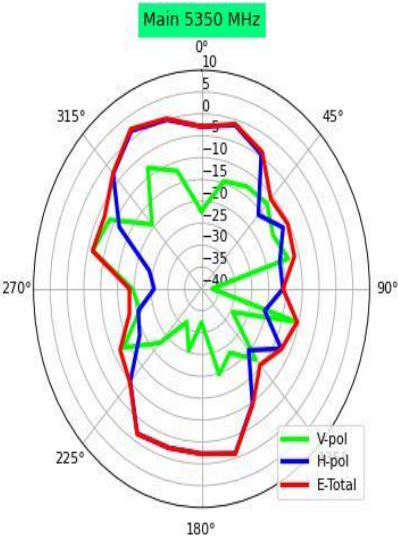
Max Antenna 2D Radiation Pattern5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5150-5250	2.68



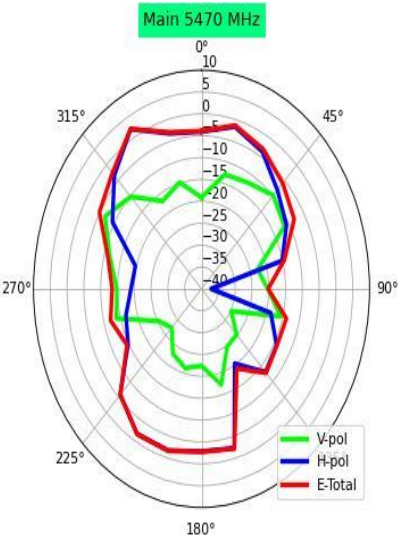
Max Antenna 2D Radiation Pattern5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5250-5350	2.73



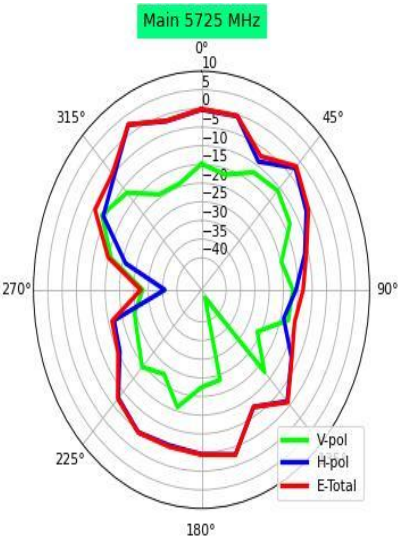
Max Antenna 2D Radiation Pattern5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5470-5725	2.81



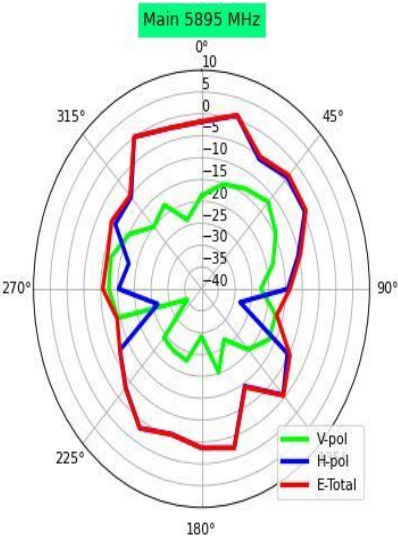
Max Antenna 2D Radiation Pattern5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5725-5850	2.54



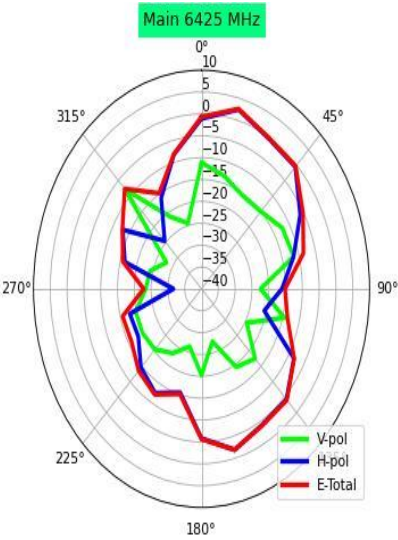
Max Antenna 2D Radiation Pattern5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5850-5895	1.54



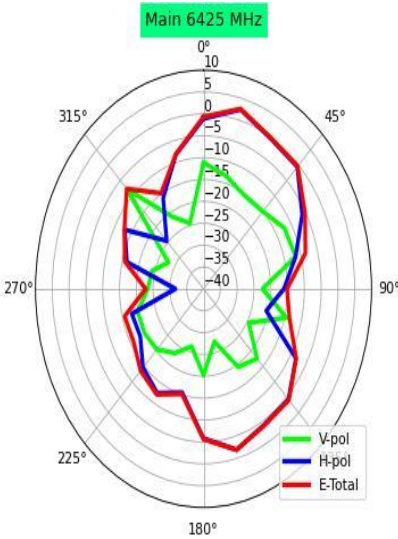
Max Antenna 2D Radiation Pattern5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5925-6425	2.58



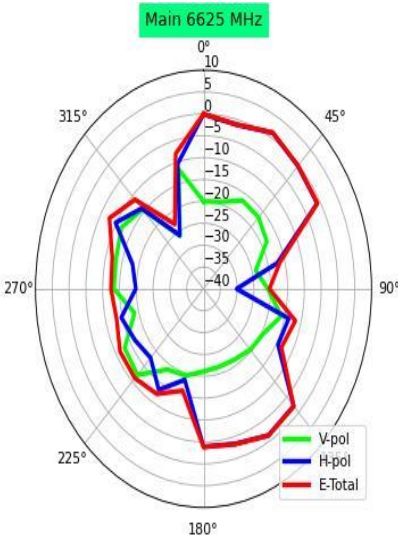
Max Antenna 2D Radiation Pattern6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
6425-6525	2.58



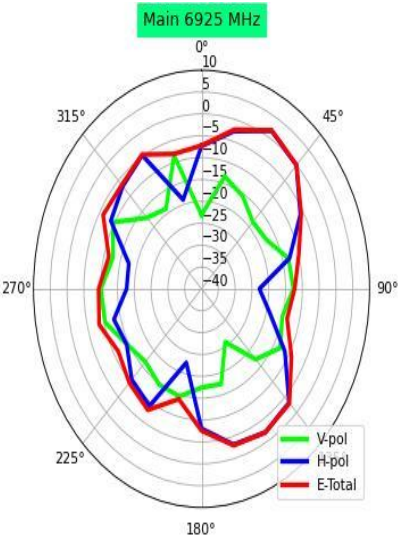
Max Antenna 2D Radiation Pattern6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
6525-6875	2.55



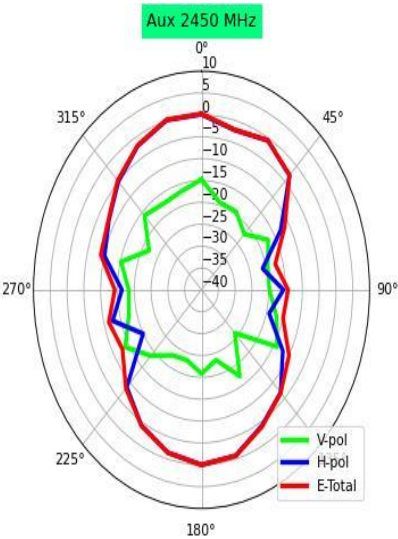
Max Antenna 2D Radiation Pattern6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
6875-7125	1.82



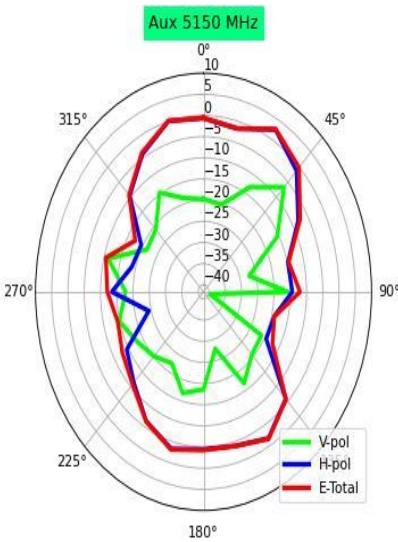
Aux Antenna
Max Antenna 2D Radiation Pattern2400-2495 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
2400-2495	2.48



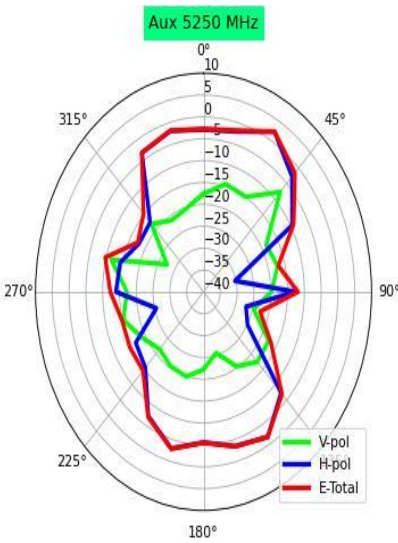
Max Antenna 2D Radiation Pattern5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5150-5250	2.63



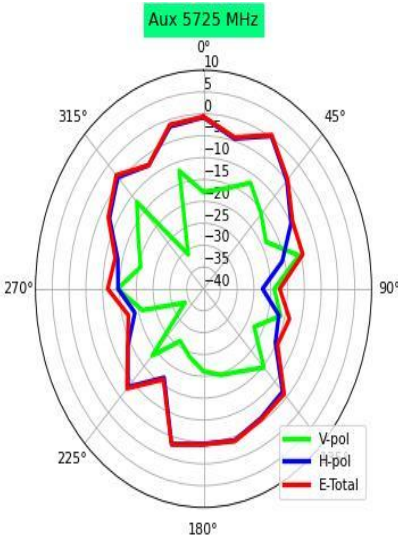
Max Antenna 2D Radiation Pattern5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5250-5350	2.43



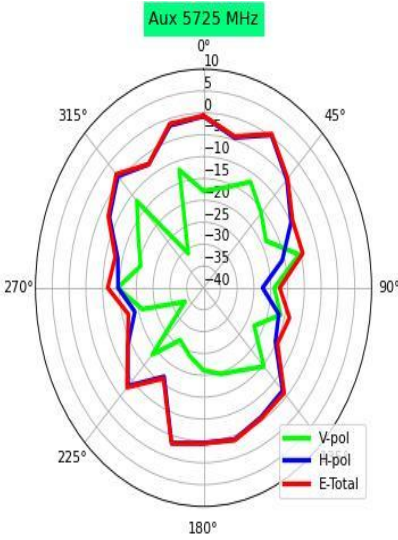
Max Antenna 2D Radiation Pattern5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5470-5725	2.86



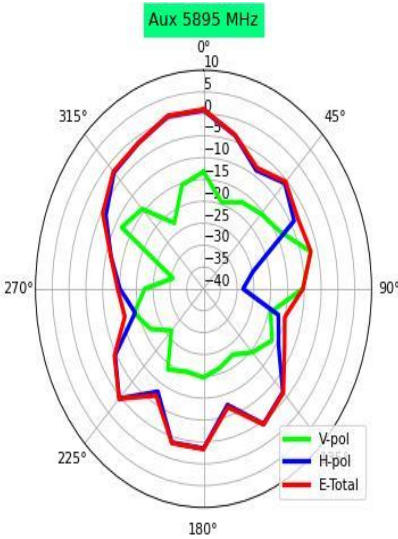
Max Antenna 2D Radiation Pattern5725.0-5850.0 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5725-5850	2.86



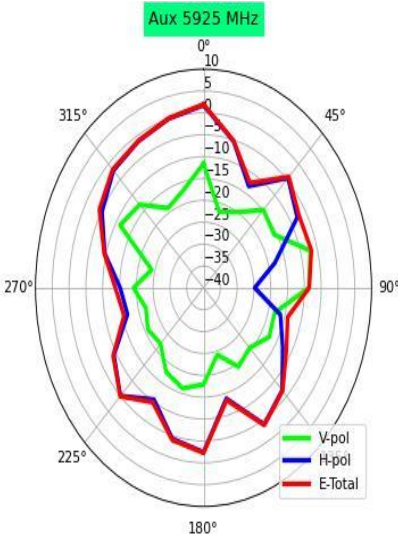
Max Antenna 2D Radiation Pattern5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5850-5895	2.79



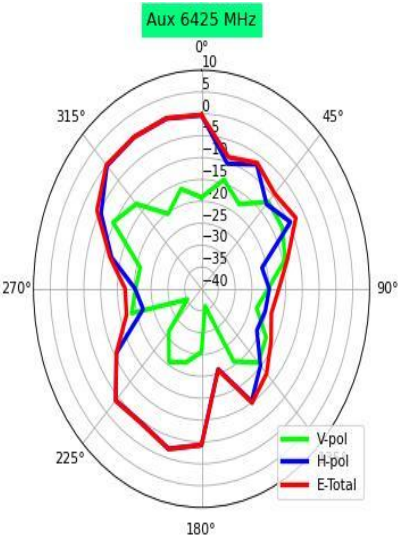
Max Antenna 2D Radiation Pattern5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
5925-6425	2.66



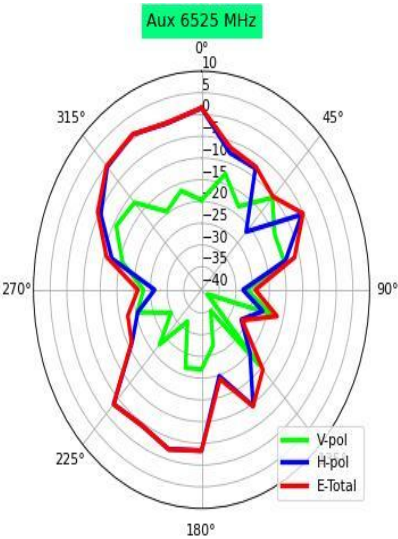
Max Antenna 2D Radiation Pattern6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
6425-6525	2.79



Max Antenna 2D Radiation Pattern6525-6875 MHz

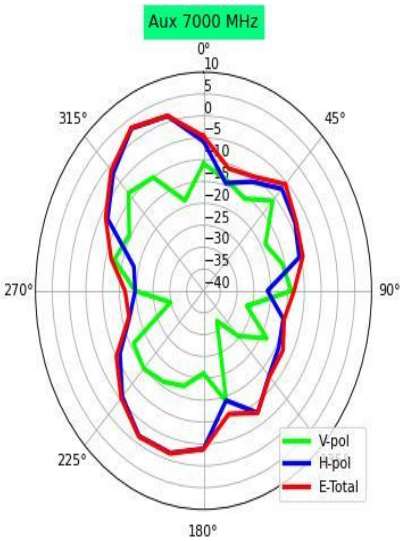
Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)
6525-6875	2.71



Max Antenna 2D Radiation Pattern6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak(dBi)

6875-7125	2.78
-----------	------



Section 4. Antenna Host Platform Location Information

Include a **dimensioned photo(s) or dimensioned drawing(s)** of Main and Aux antenna placements (measurements are not required for receive-only antenna).

Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.