

Test Report for Antenna Specifications for H4P25L

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Frequency range and operation

WiFi Antenna: 2.412 to 2.472 GHz and 5.180 to 5.825 GHz

Bluetooth Antenna: 2.402 to 2.484 GHz

Antenna type

WiFi Antenna , Bluetooth Antenna: PCB PIFA type

Antenna Gain

Band	Peak Gain (dBi)	
	Wi-Fi ANT	BT ANT
2.4GHz(2400-2480MHz)	3.90	2.77
5GHz Band I (5150-5250MHz)	4.13	
5GHz Band II-A (5250-5350MHz)	3.76	
5GHz Band II-C (5470-5725MHz)	3.50	
5GHz Band III (5725-5850MHz)	3.79	

Measurement Test method

Solder pigtails on feeding point of antennas and measure passive antenna performance by VNA and OTA chamber system. And the measurement was done in devices level.

Test Equipment used:

Test Lab: SPORTON

Test Equipment:

- 1. VNA: R&S ZVB8
- 2. OTA chamber: ETS 8500 Antenna Measurement System

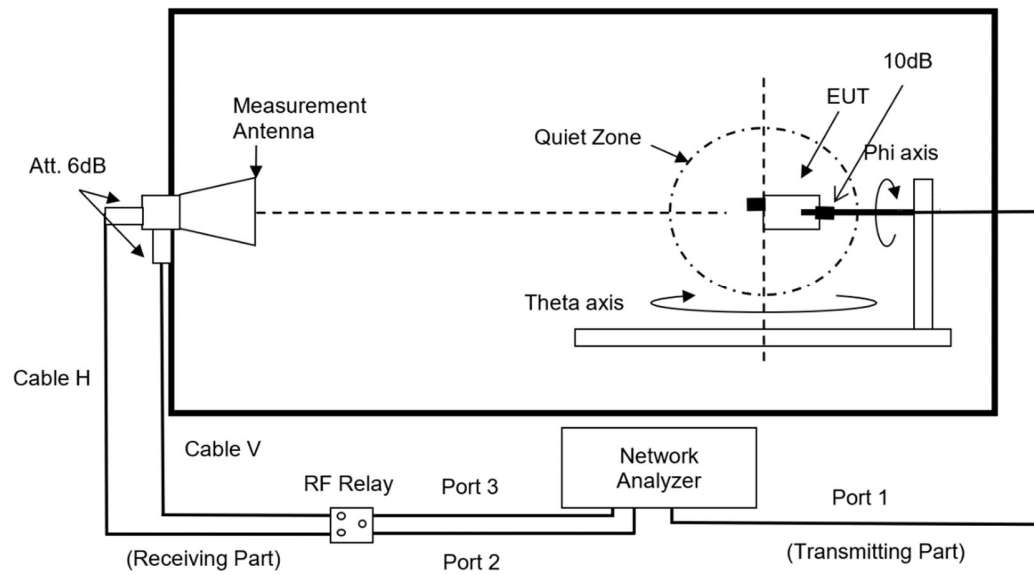
OTA02-SZ					
Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Network Analyzer	R&S	ZVB8	100106	2025/10/14	2026/10/13
Switch Control	ETS-Lindgren	EMCenter	00116609	NCR	NCR
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-08	00138285	NCR	NCR
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00155901	NCR	NCR
Medium Duty Holder	ETS-Lindgren	2015	N/A	NCR	NCR

Test Engineer	Test Period	
	Begin	End
	2026/03/30	2026/03/31
Testing Side	Test Period	
	Begin	End
Sporton International Inc. (Shenzhen) 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055, People's Republic of China	2026/03/30	2026/03/31

Test set up

Refer to Below

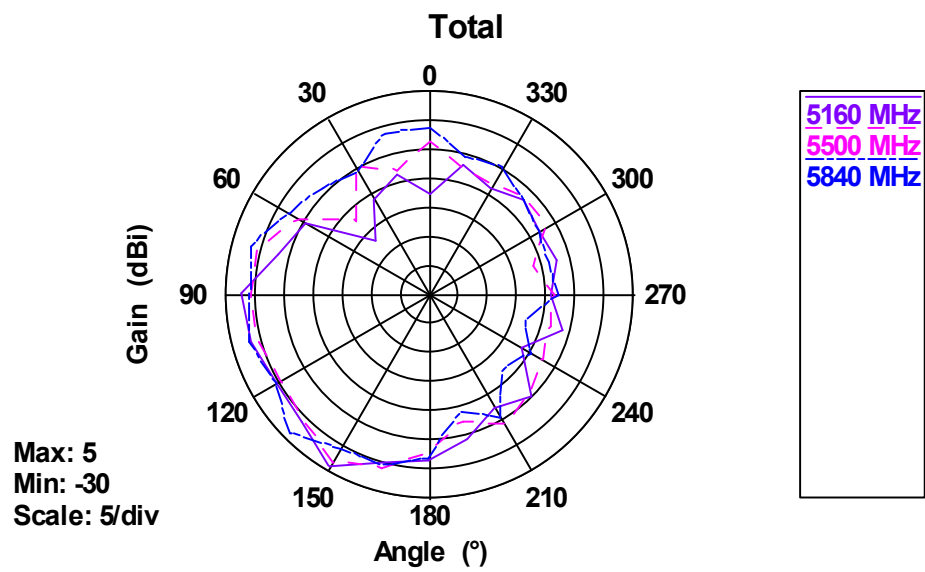
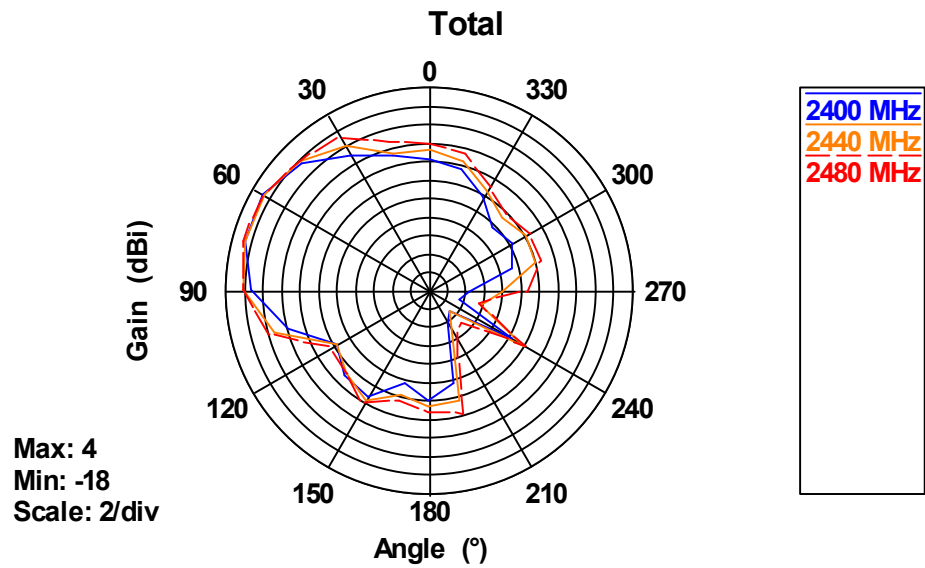
SPORTON CHAMBER AXIS



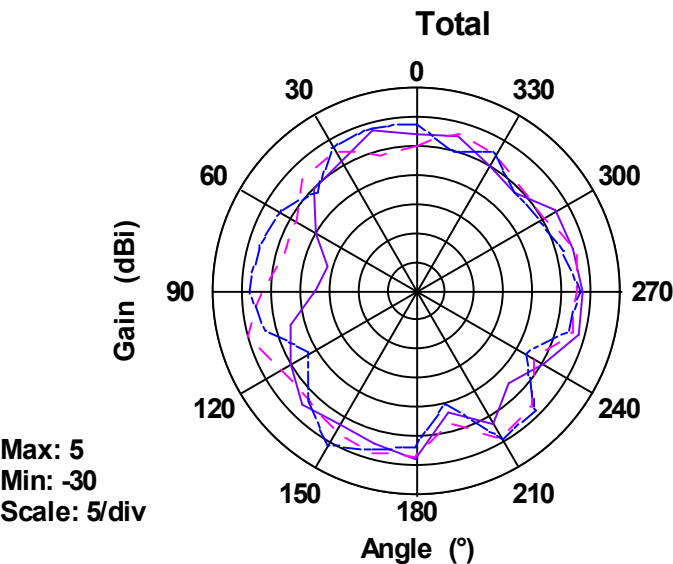
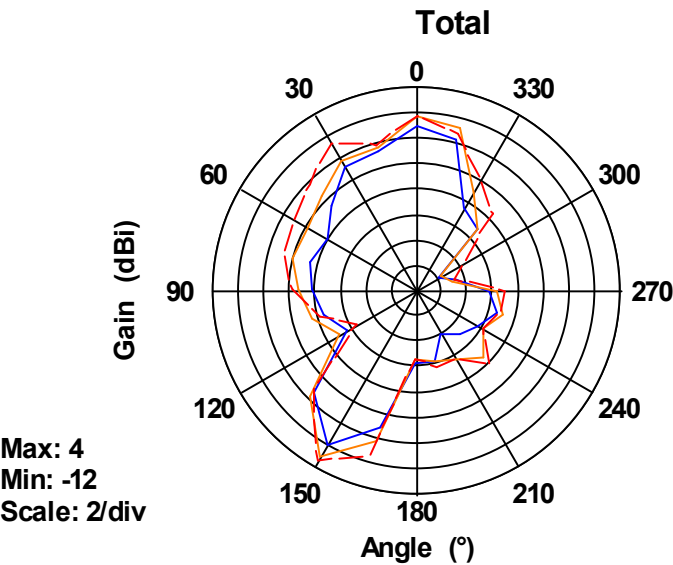
2D RADIATION PATTERN

WiFi Antenna

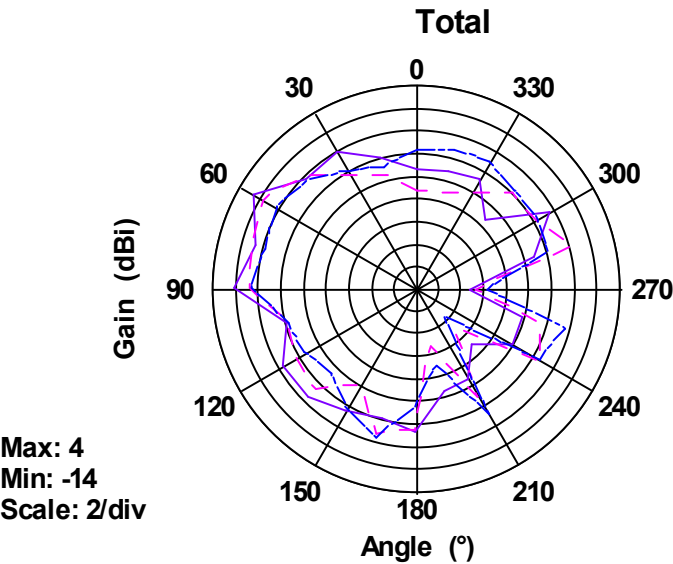
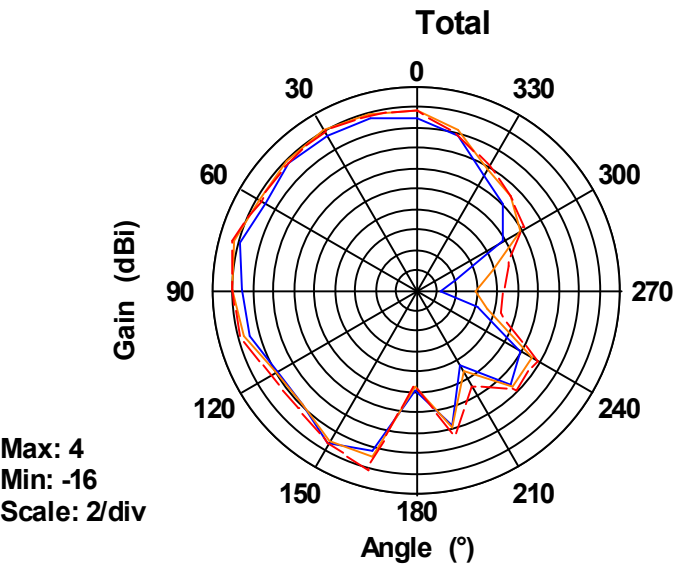
XY plane



XZ plane

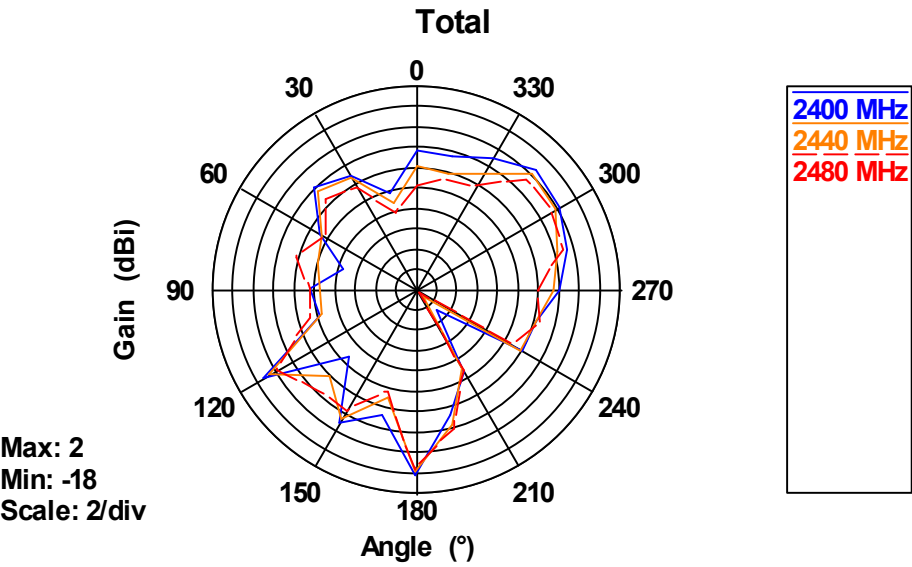


YZ plane

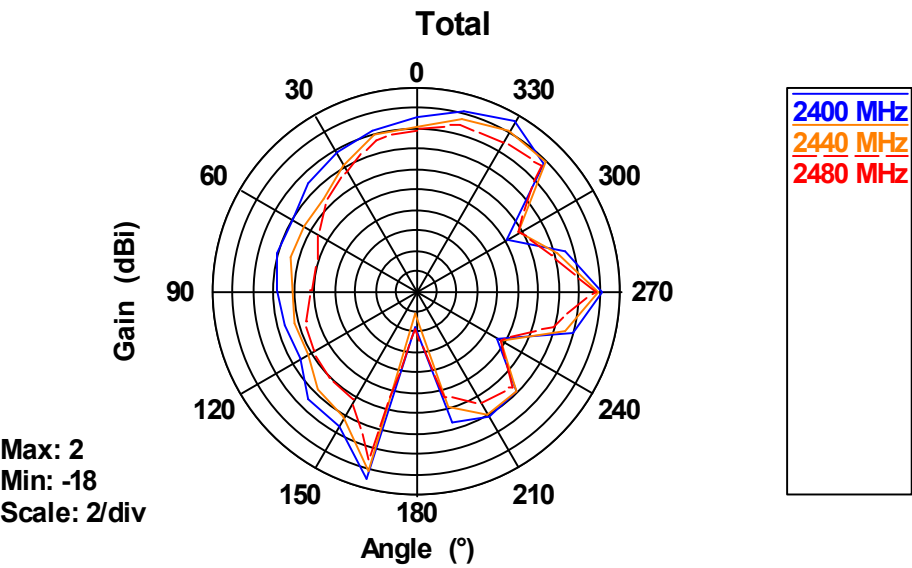


BT Antenna

XY plane



XZ plane



YZ plane

