



AX-28 WiFi Antenna Check Sheet

Model: RFDPA161500SBLB803



AX-28 WiFi Antenna Check Sheet

Date: 2023/07/19

Revision History:

Version	Date	Change Description
1.0	2022/09/27	New Release



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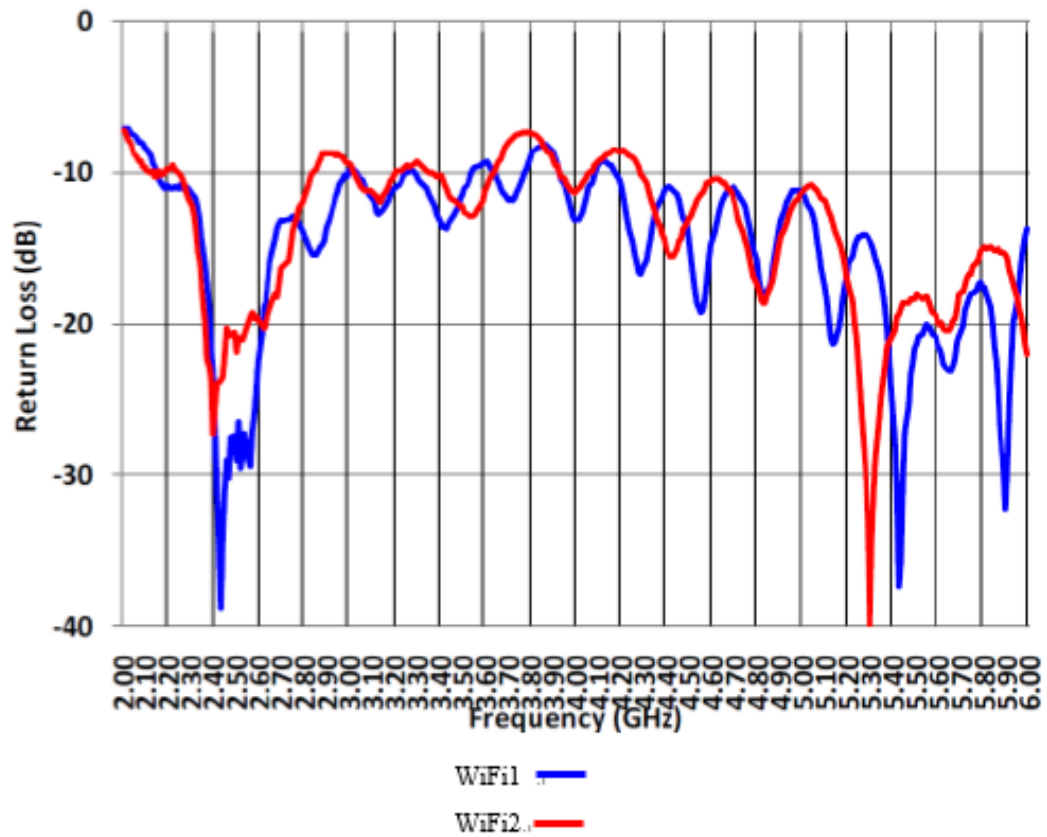
Date: 2023/07/19

Antenna Specification

Ant.	Antenna Brand	Antenna. model	Antenna type	Antenna Gain (dBi)	Frequency Range from MHz to MHz	Connector type	Cable length (cm)	Cable Loss
WiFi 1	PSA	RFDPA161500SBLB803	Dipole	4.33/5.02	2400-2500/ 5150-5850	Reverse SMA Plug	28	
WiFi 2	PSA	RFDPA161500SBLB803	Dipole	5.2/4.95	2400-2500/ 5150-5850	Reverse SMA Plug	13.5	

Test Result:

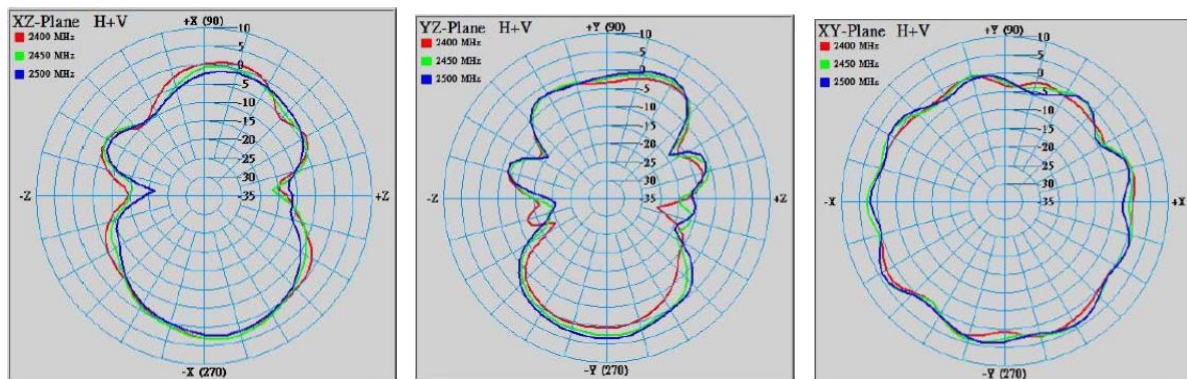
Return Loss



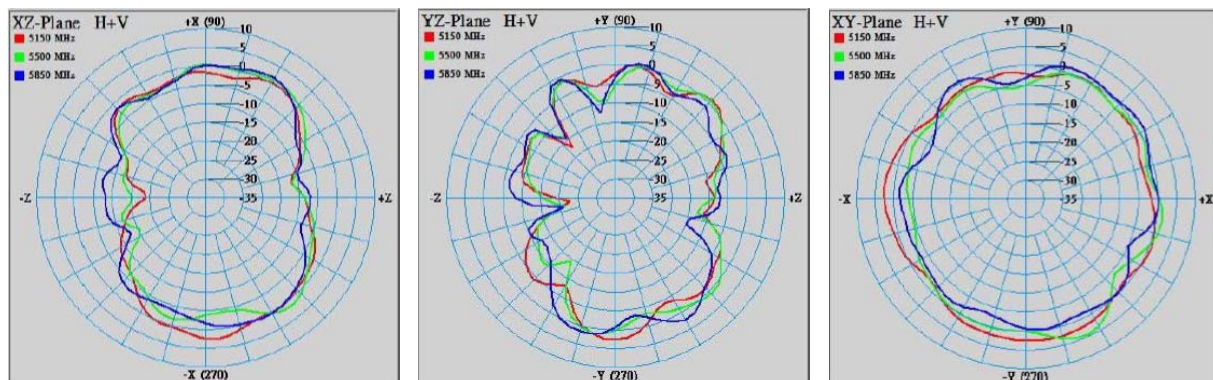
2D Radiation Patterns:



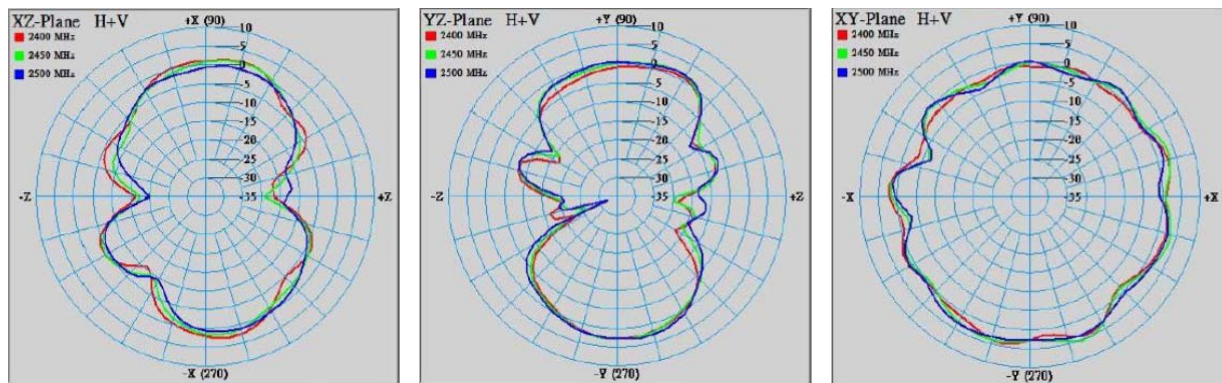
WiFi1 @2G



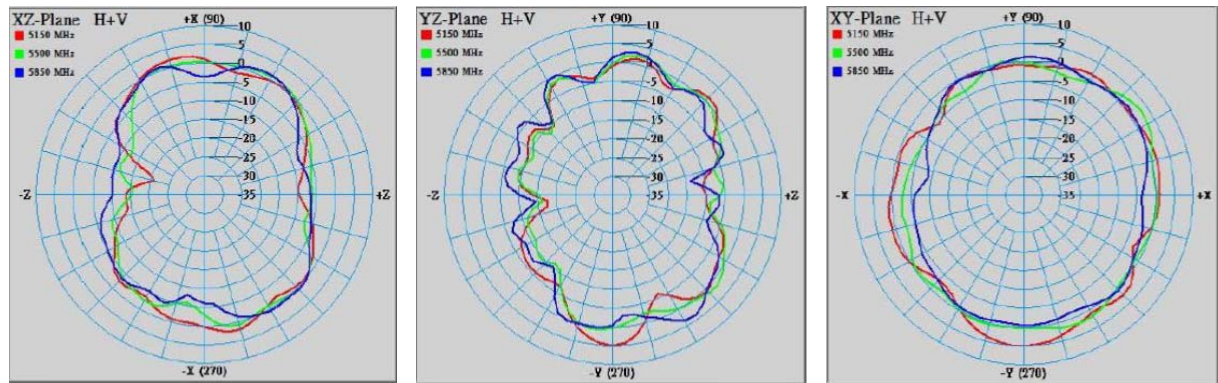
WiFi1 @5G



WiFi2@2G



WiFi2@5G



Antenna Gain Table:

Frequency(MHz)	WiFi1(dBi)	WiFi2(dBi)
2400	3.91	4.5
	Theta 60° / phi 64°	Theta 260° / phi 84°
2450	4.33	5.2
	Theta 256° / phi 90°	Theta 292° / phi 90°
2500	4.26	4.0
	Theta 212° / phi 86°	Theta 292° / phi 92°

Frequency(MHz)	WiFi1(dBi)	WiFi2(dBi)
5150	2.9	4.95
	Theta 64° / phi 78°	Theta 270° / phi 90°
5500	5.02	3.33
	Theta 294° / phi 92°	Theta 34° / phi 88°
5850	2.97	4.06
	Theta 284° / phi 58°	Theta 274° / phi 56°



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Antenna Vendor information:

Walsin Technology Corporation

Address: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan



Antenna Vendor : PSA

Test date: 2022/09/27

Test Engineer: Jason

Address of test site: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : Keysight VNA E5063A

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber : Satimo SG24

-Test Program:SPM1.11

The antenna gain of the antenna model: RFDPA161500SBLB803 was measured by PSA.

Test instrument calibration information:

Vendor	Model	Calibrated Date	Calibrated Until
Keysight	VNA E5063A	2022/03/17	2023/03/16



Appendix

Antenna Vendor : PSA

Test date:2022/09/27

Test Engineer :Jason

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : Keysight VNA E5063A

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber : Satimo SG24

-Test Program:SPM1.11