





Test Report No.: AN2212WDG0009

ANTENNA TEST REPORT

Applicant	Shenzhen Glory Star Technology Industrial Co., LTD
Address	Room 2102, Block 1 st Yi Luan, Xixiang Road 230, BaoAn District

Manufacturer or Supplier	Shenzhen Glory Star Technology Industrial Co., LTD
Address	Room 2102, Block 1 st Yi Luan, Xixiang Road 230, BaoAn District
Product	Antenna
Brand Name	N/A
Model	NC104
Max. Peak Gain	-0.5dBi
Date of tests	Dec. 01, 2022 ~ Dec. 07, 2022

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Dec. 12, 2022

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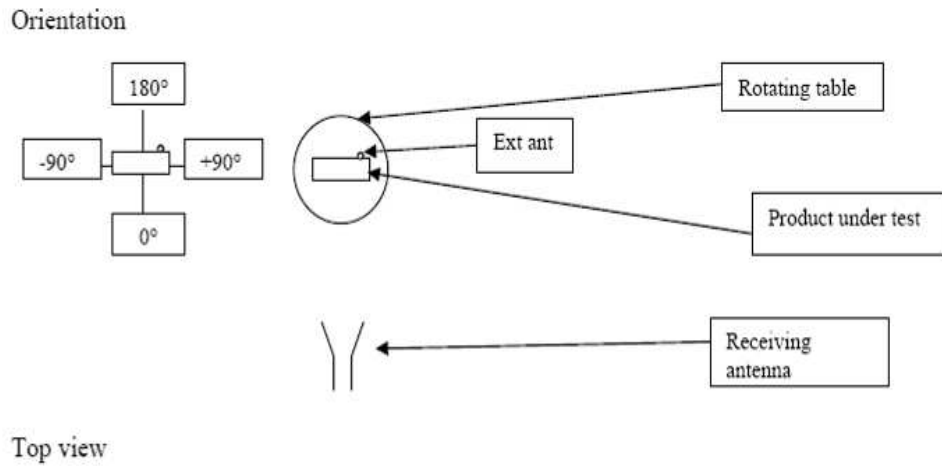
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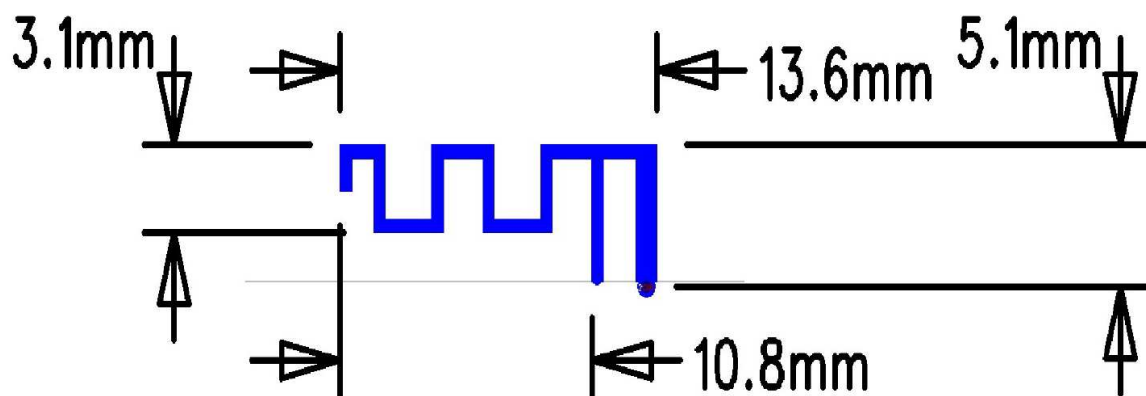
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1. MEASUREMENTS SETUP



2. SIZE OF THE ANTENNA



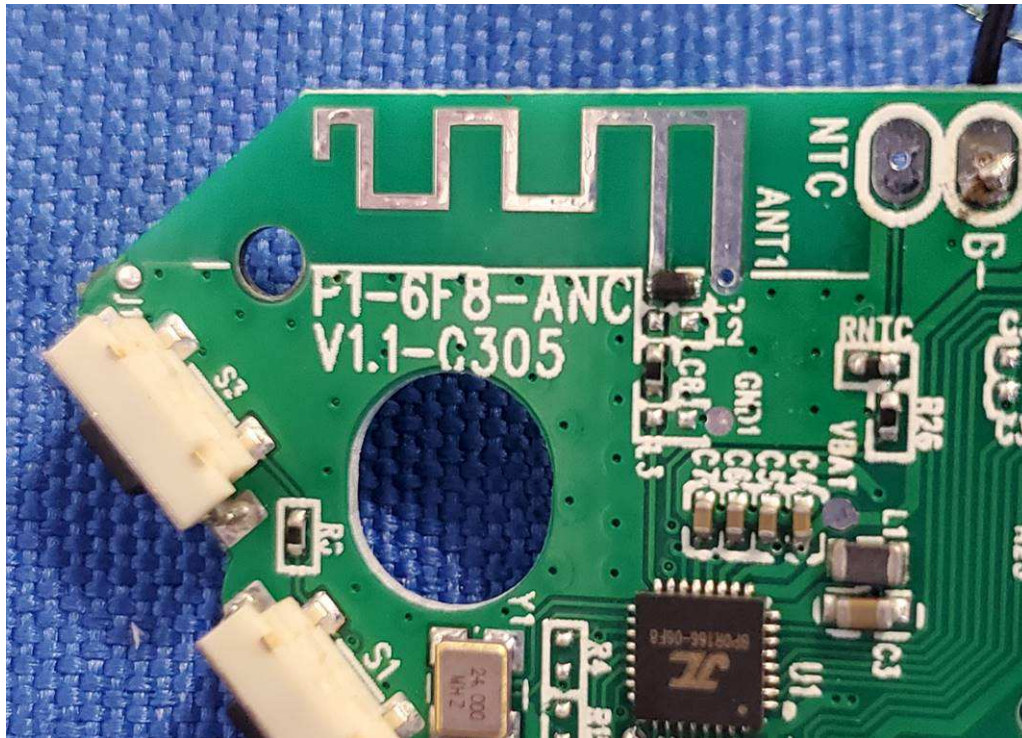
3. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal Generator	Agilent	N5183A	MY50140980	Jul. 20, 23
Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Jan. 16, 23
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1247	Apr. 23, 23
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 B	00740	Jul. 20, 23
Turn Table	MF	MF-7802	MF780208191	N/A
Controller	MF	MF-7802	MF780208243	N/A
Test Software	BV ADT	BV ADT Antenna Pattern	V6.2	N/A

- NOTE:** 1. The test was performed in Fully Anechoic Room.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4. TEST RESULTS

ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
PCB	2402	Horizontal	-1.05
		Vertical	-1.34
	2440	Horizontal	-1.21
		Vertical	-1.20
	2480	Horizontal	-0.50
		Vertical	-1.55





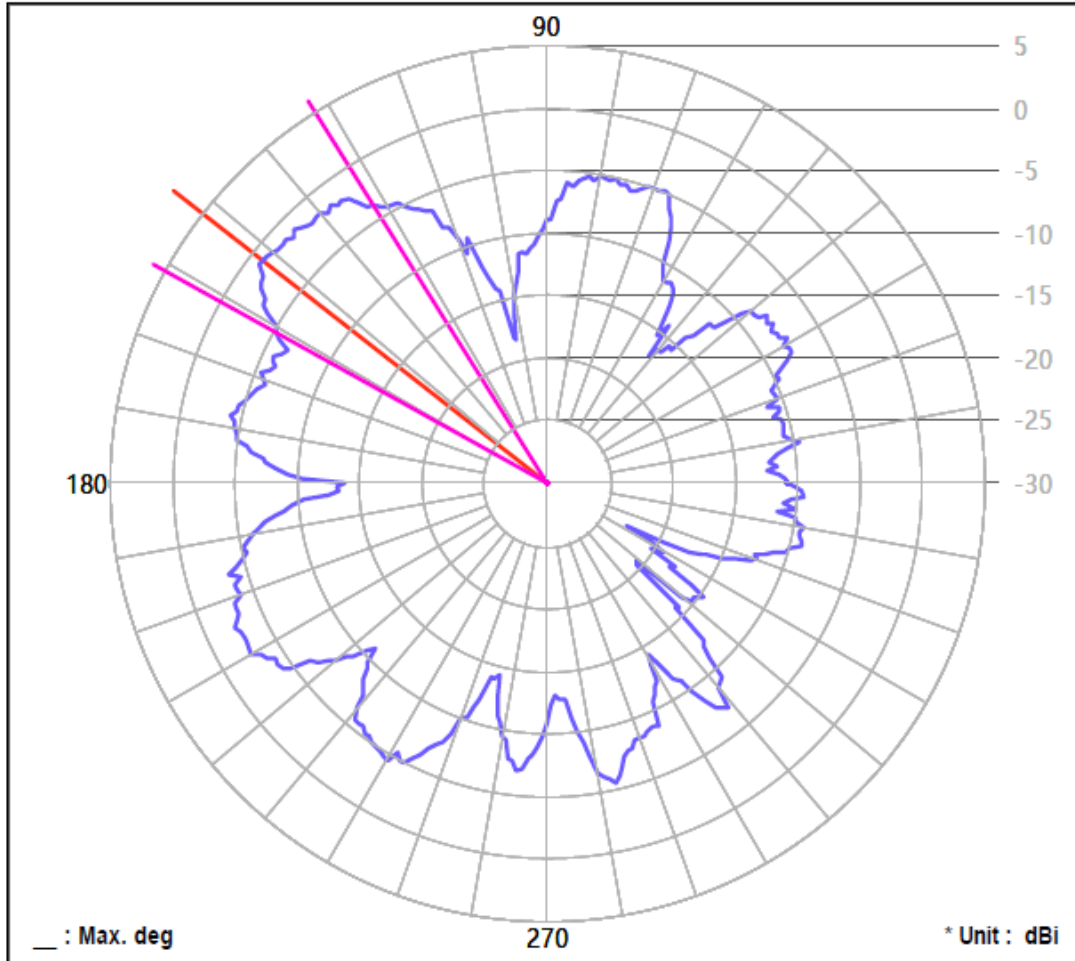
Test Report No.: AN2212WDG0009

Frequency: 2402 MHz (Horizontal)

Location : RF Chamber

Date: 2022/12/7

Time: 11:30:52



Frequency (MHz) : 2402.00

Polarity : Horizontal

Average Gain (dB) : -6.88

Max. Gain (dB) : -1.05

Max. Gain (degree) : 142

Beamwidth Degree : 29

Mini. Gain (dB) : -22.79

Mini. Gain (degree) : 332

(at the 3 dB down)

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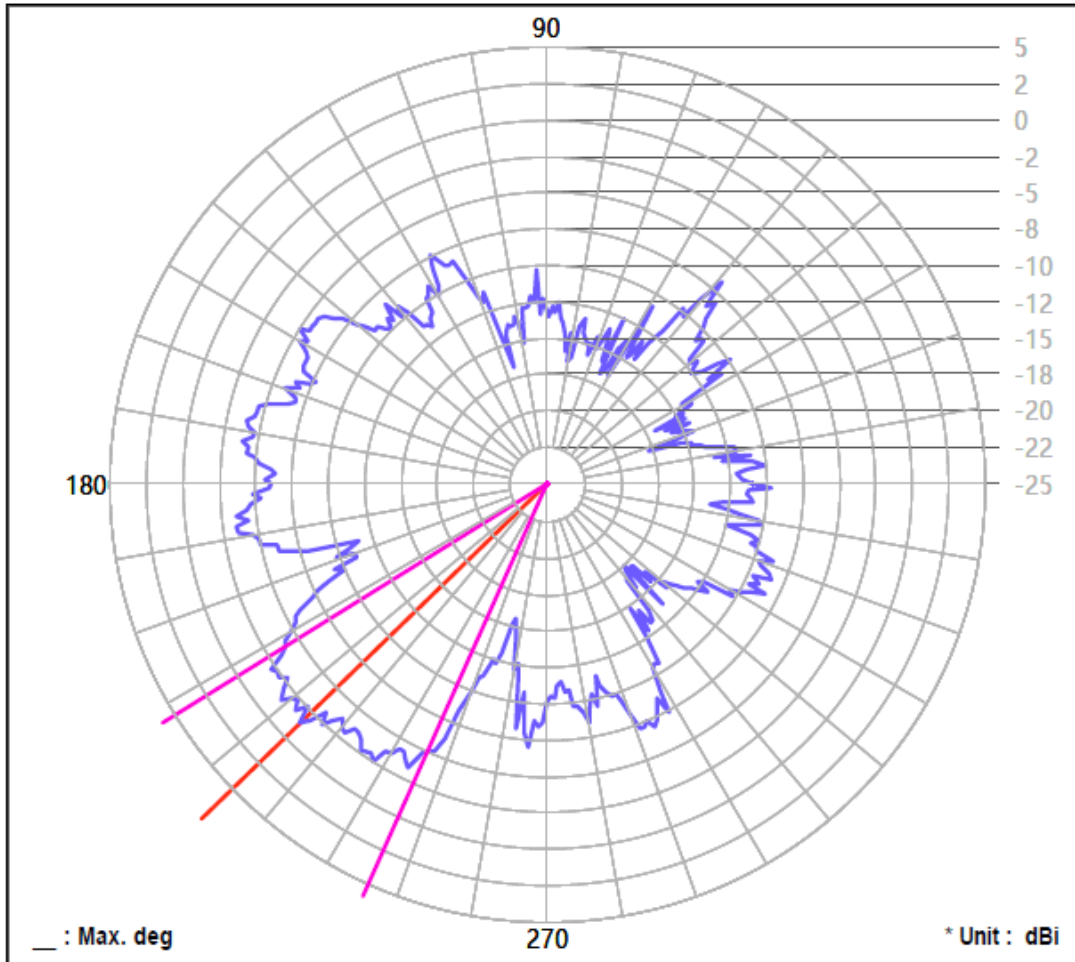


Frequency: 2402 MHz (Vertical)

Location: RF Chamber

Date: 2022/12/7

Time: 10:37:01



Frequency (MHz): 2402.00

Polarity: Vertical

Average Gain (dB): -7.99

Max. Gain (dB): -1.34

Max. Gain (degree): 224

Beamwidth Degree: 34

(at the 3 dB down)

Mini. Gain (dB): -17.65

Mini. Gain (degree): 18



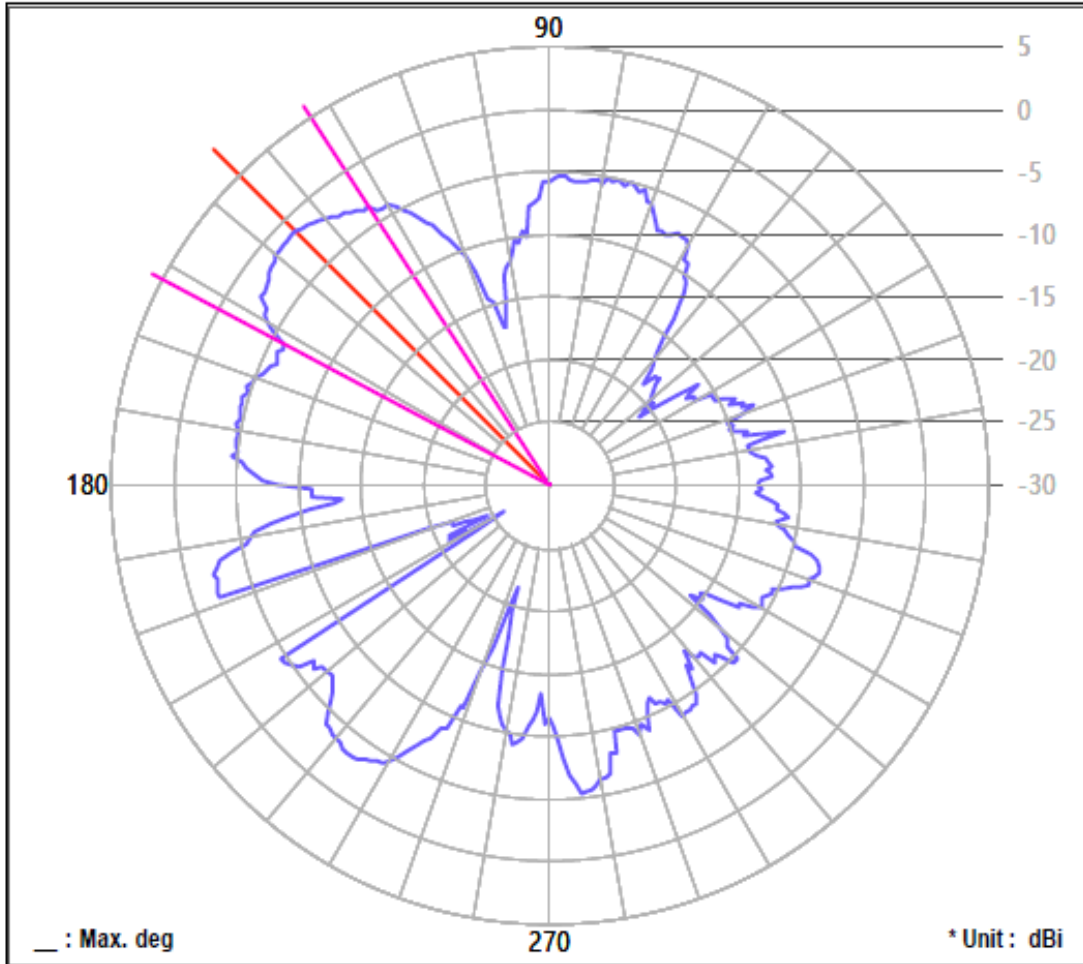
Test Report No.: AN2212WDG0009

Frequency: 2440 MHz (Horizontal)

Location : RF Chamber

Date: 2022/12/7

Time: 11:25:22



Frequency (MHz) : 2440.00

Polarity : Horizontal

Average Gain (dB) : -7.14

Max. Gain (dB) : -1.21

Max. Gain (degree) : 135

Beamwidth Degree : 29

Mini. Gain (dB) : -25.85

Mini. Gain (degree) : 211

(at the 3 dB down)

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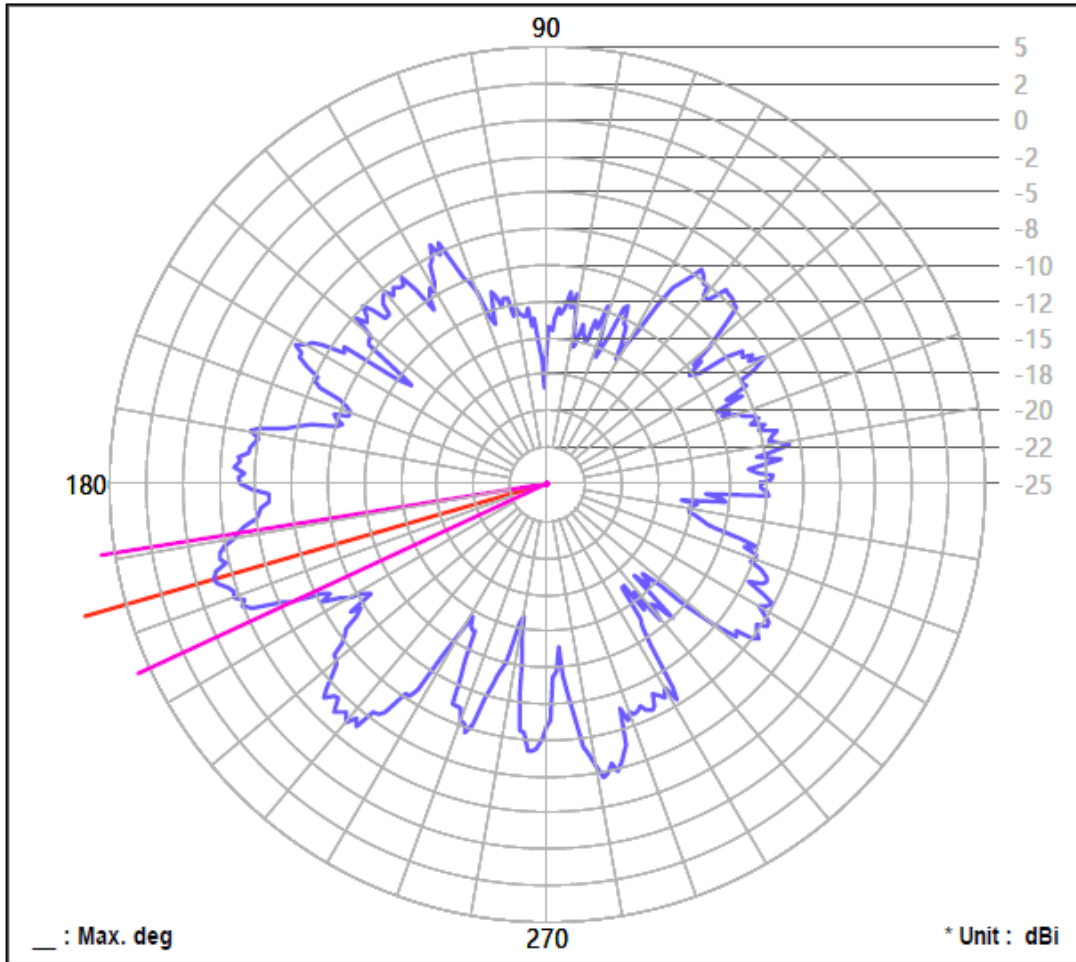
Test Report No.: AN2212WDG0009

Frequency: 2440 MHz (Vertical)

Location : RF Chamber

Date: 2022/12/7

Time: 11:02:53



Frequency (MHz) : 2440.00

Polarity : Vertical

Average Gain (dB) : -8.00

Max. Gain (dB) : -1.20

Max. Gain (degree) : 196

Beamwidth Degree : 16
(at the 3 dB down)

Mini. Gain (dB) : -18.37

Mini. Gain (degree) : 91

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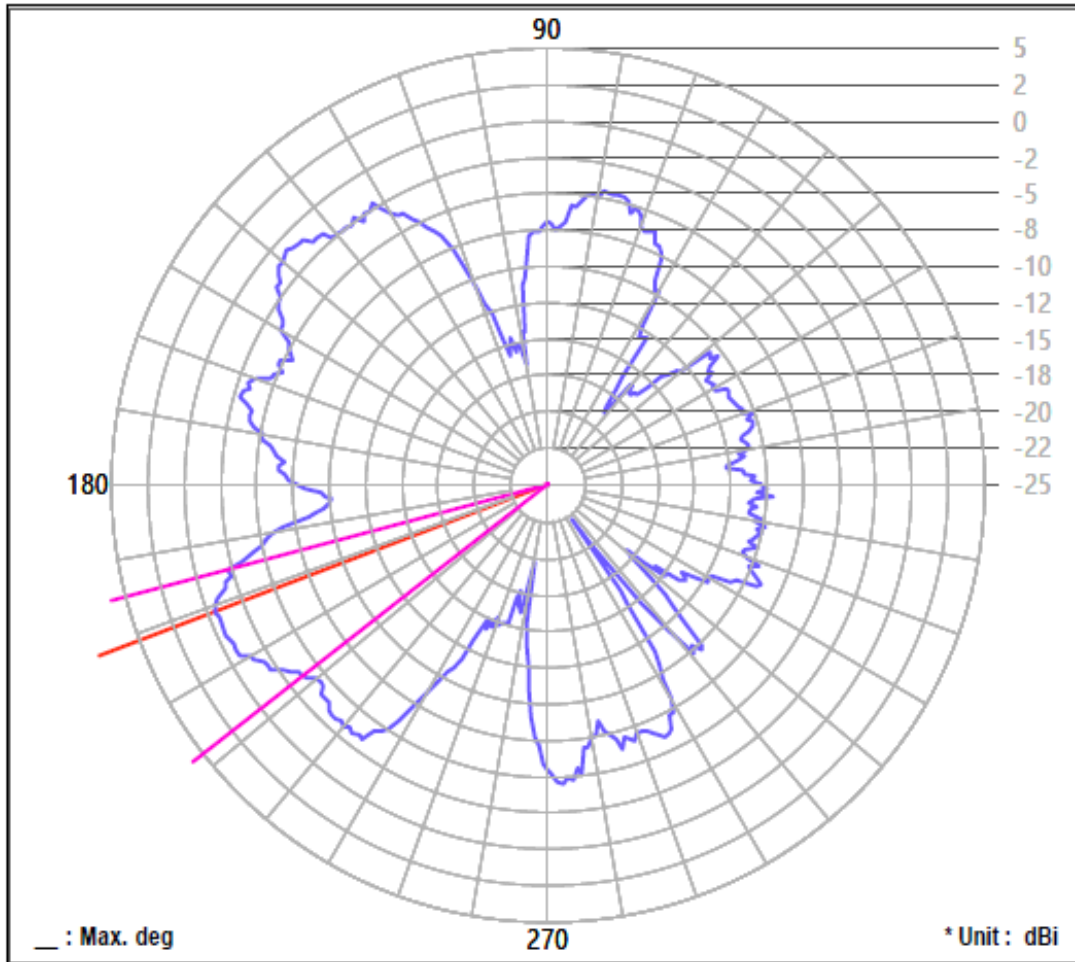
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Frequency: 2480 MHz (Horizontal)

Location : RF Chamber

Date: 2022/12/7

Time: 11:21:21



Frequency (MHz) : 2480.00

Polarity : Horizontal

Average Gain (dB) : -6.19

Max. Gain (dB) : -0.50

Max. Gain (degree) : 201

Beamwidth Degree : 23

Mini. Gain (dB) : -22.03

Mini. Gain (degree) : 306

(at the 3 dB down)

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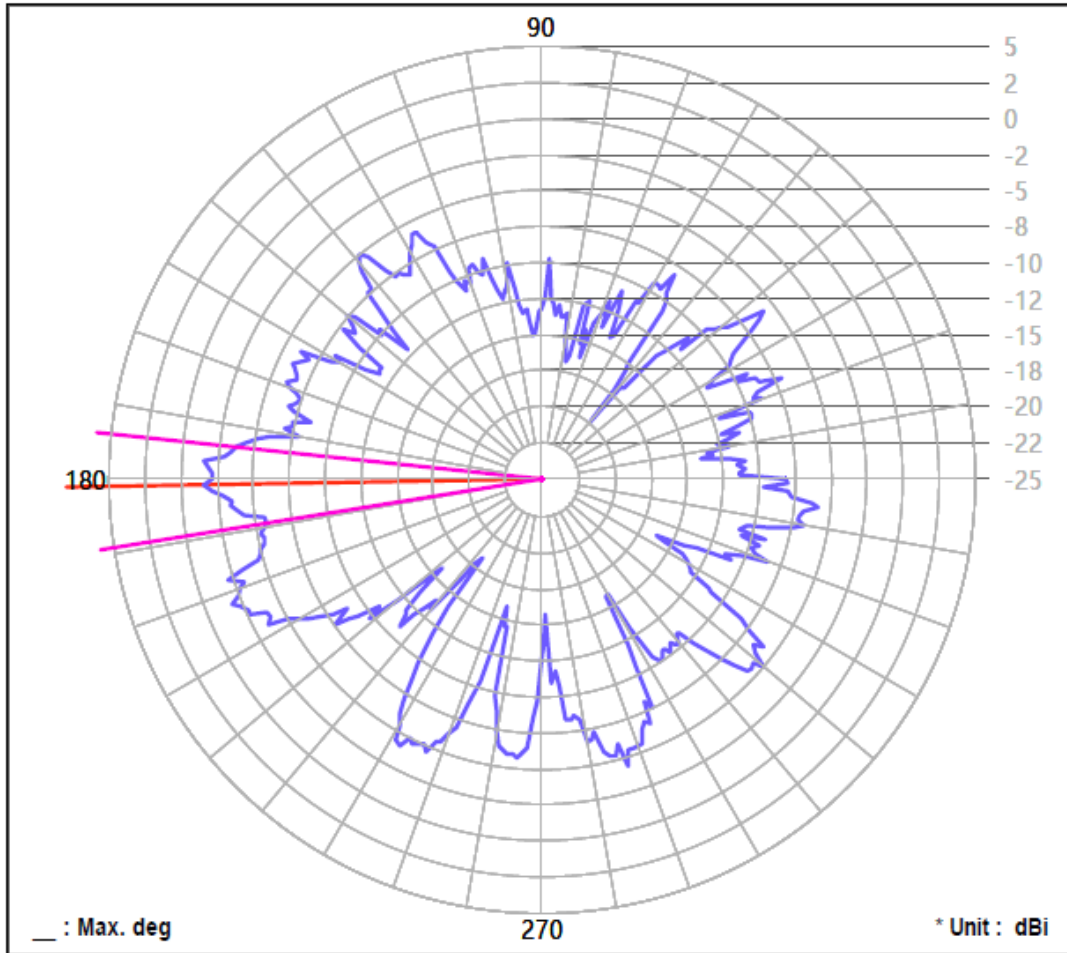
Test Report No.: AN2212WDG0009

Frequency: 2480 MHz (Vertical)

Location : RF Chamber

Date: 2022/12/7

Time: 11:14:48



Frequency (MHz) : 2480.00

Polarity : Vertical

Average Gain (dB) : -7.75

Max. Gain (dB) : -1.55

Max. Gain (degree) : 181

Beamwidth Degree : 15

Mini. Gain (dB) : -19.85

Mini. Gain (degree) : 50

(at the 3 dB down)

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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

