

ANTENNA TEST REPORT

Applicant	Shenzhen Joyhong Technology CO., Ltd
Address	5th Floor, Building1, Zhongtai Road, 18, Loucun Second Industrial Park, Xihu Street, Guangming, Shenzhen, China

Manufacturer or Supplier	Shenzhen Joyhong Technology CO., Ltd
Address	5th Floor, Building1, Zhongtai Road, 18, Loucun Second Industrial Park, Xihu Street, Guangming, Shenzhen, China
Product	WIFI dual-band antenna
Brand Name	N/A
Model	XBLP4914-T113420BG
Max. Peak Gain	3.38 dBi for 2.4GHz, 2.27 dBi for 5180~5240MHz, 3.26 dBi for 5745~5825MHz
Date of tests	Nov. 13, 2023

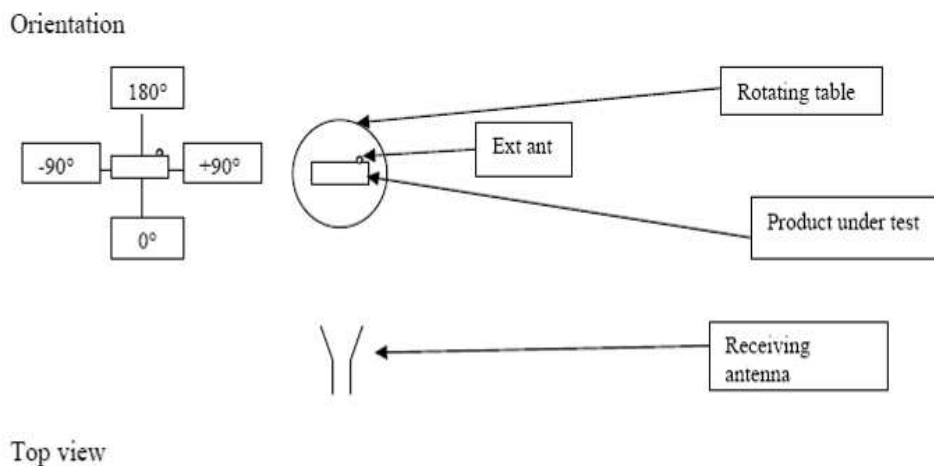
Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Dec. 05, 2023

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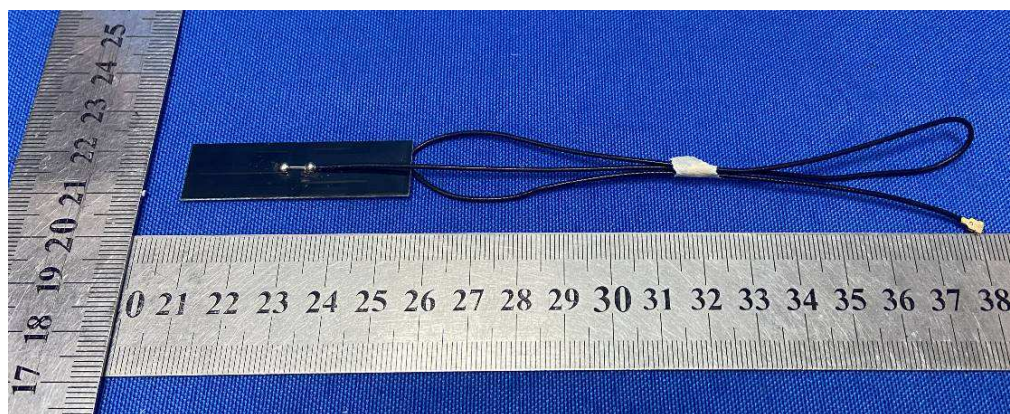
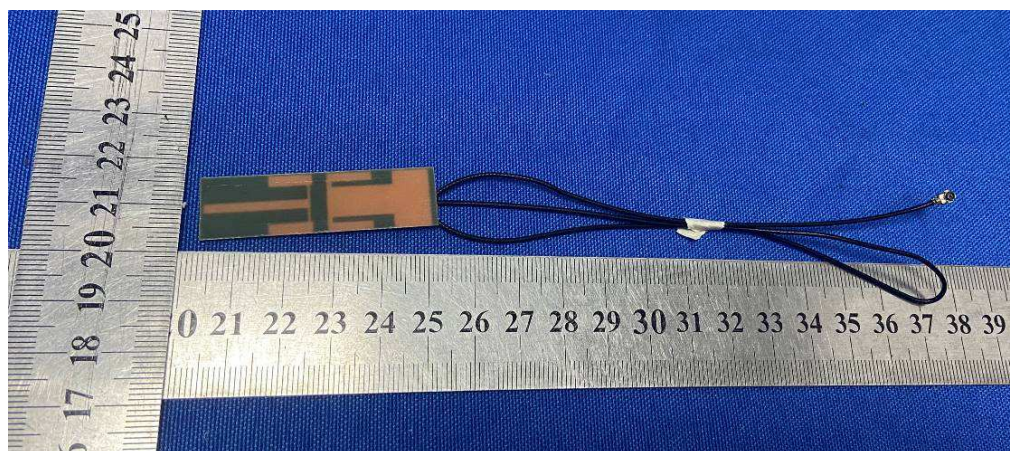
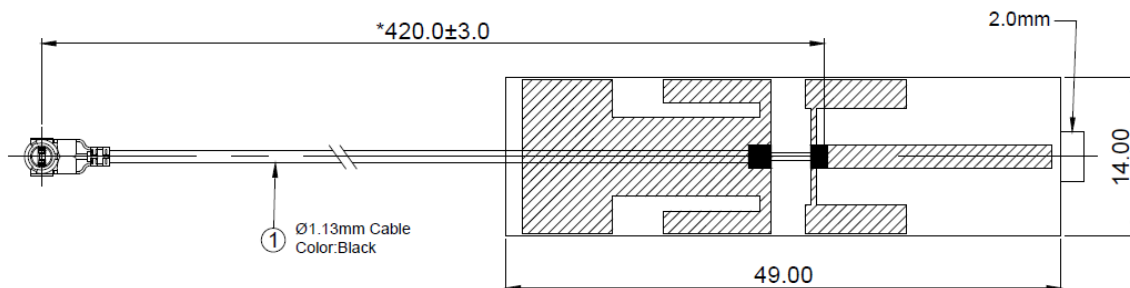
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1. MEASUREMENTS SETUP



During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables,

2. SIZE OF THE ANTENNA



3. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 24
Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Jan. 11, 24
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1247	Apr. 01, 24
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 B	00740	Jul. 20, 24
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

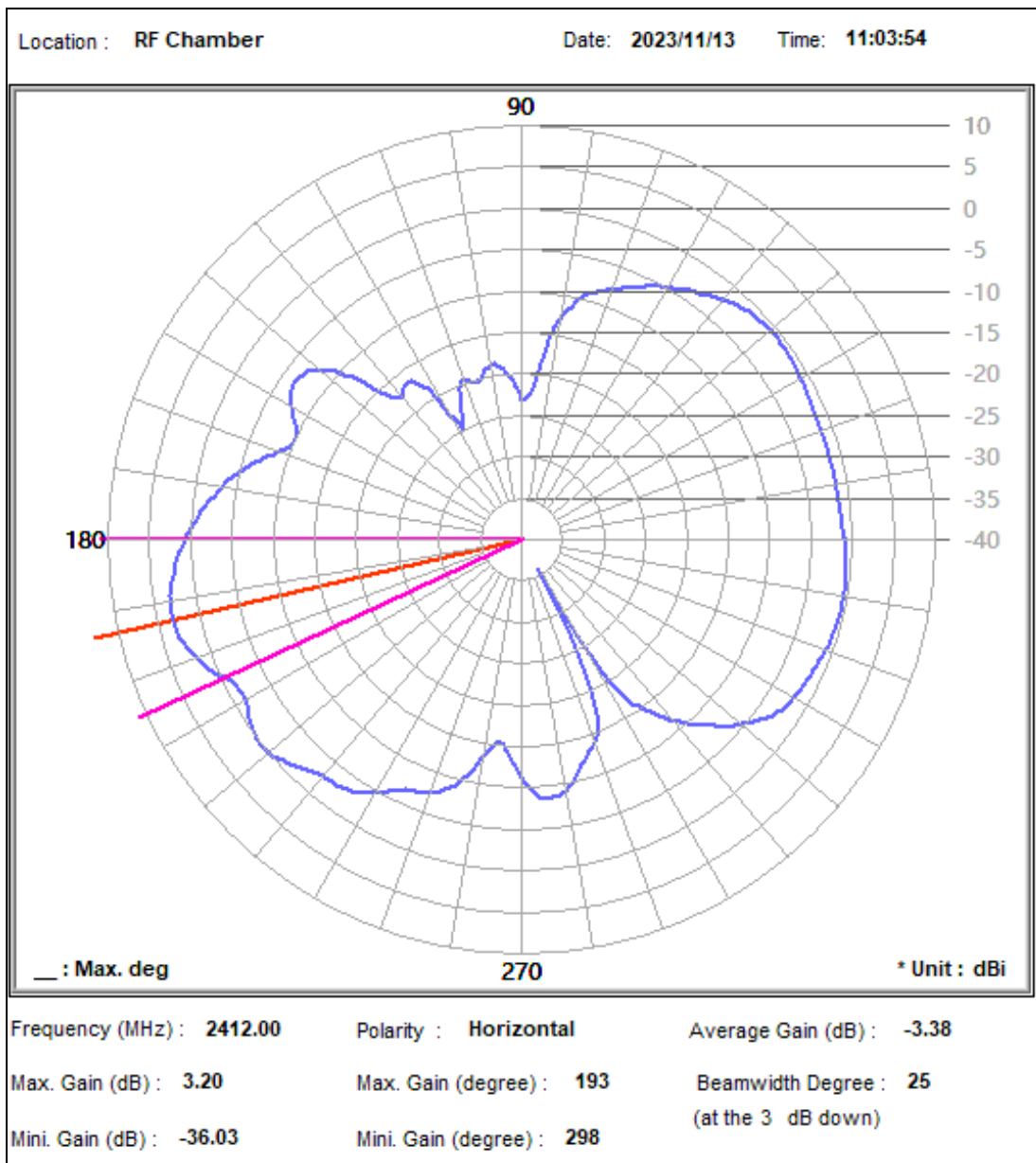
2.4GHz

ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
PCB	2412	Horizontal	3.20
		Vertical	-9.50
	2437	Horizontal	3.38
		Vertical	-8.94
	2462	Horizontal	2.11
		Vertical	-9.53

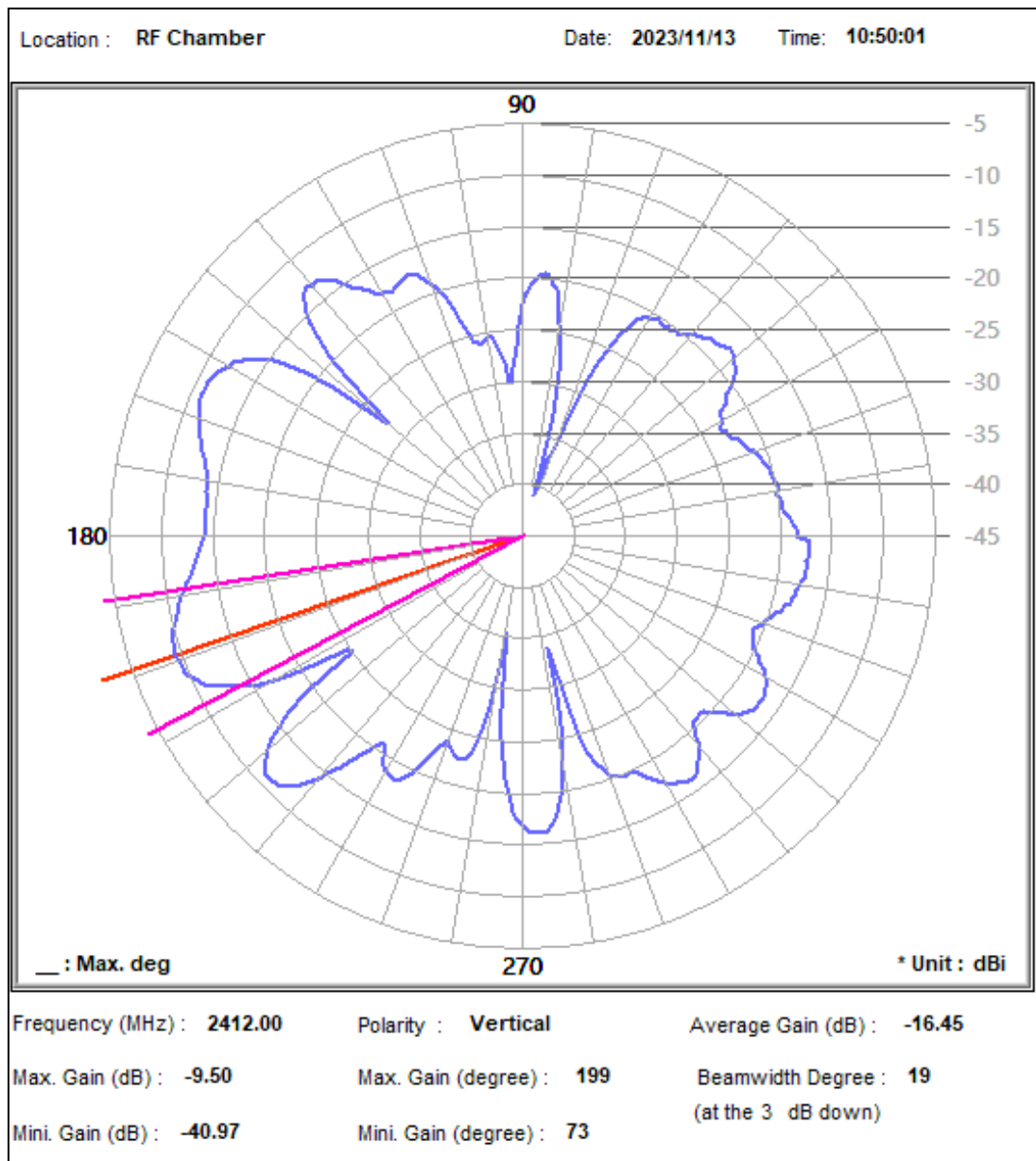
5GHz

ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
PCB	5180	Horizontal	2.19
		Vertical	-2.40
	5200	Horizontal	2.27
		Vertical	-2.31
	5240	Horizontal	2.06
		Vertical	-2.70
	5745	Horizontal	3.26
		Vertical	-4.21
	5785	Horizontal	2.89
		Vertical	-4.97
	5825	Horizontal	2.95
		Vertical	-4.59

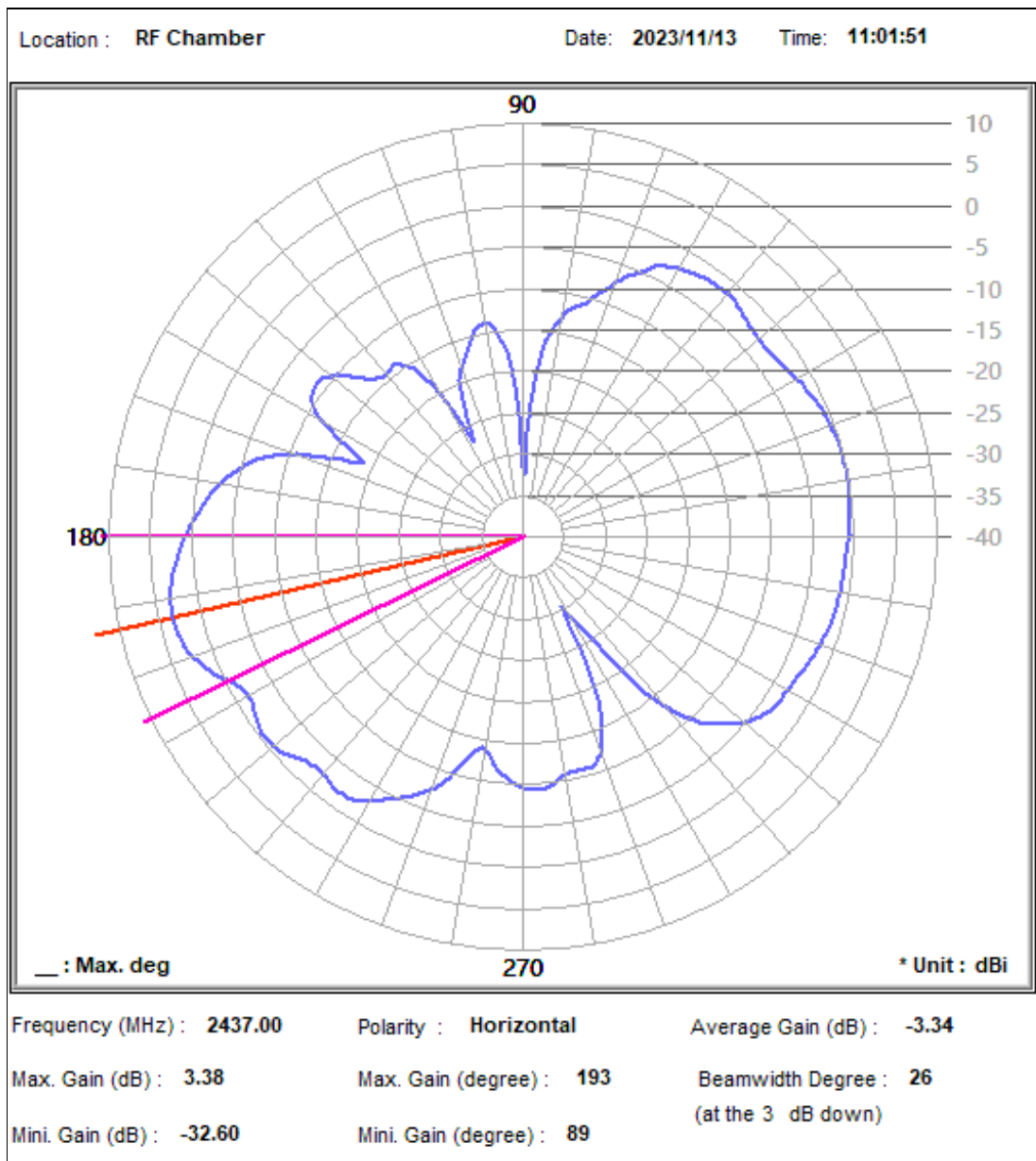
Frequency: 2412 MHz (Horizontal)



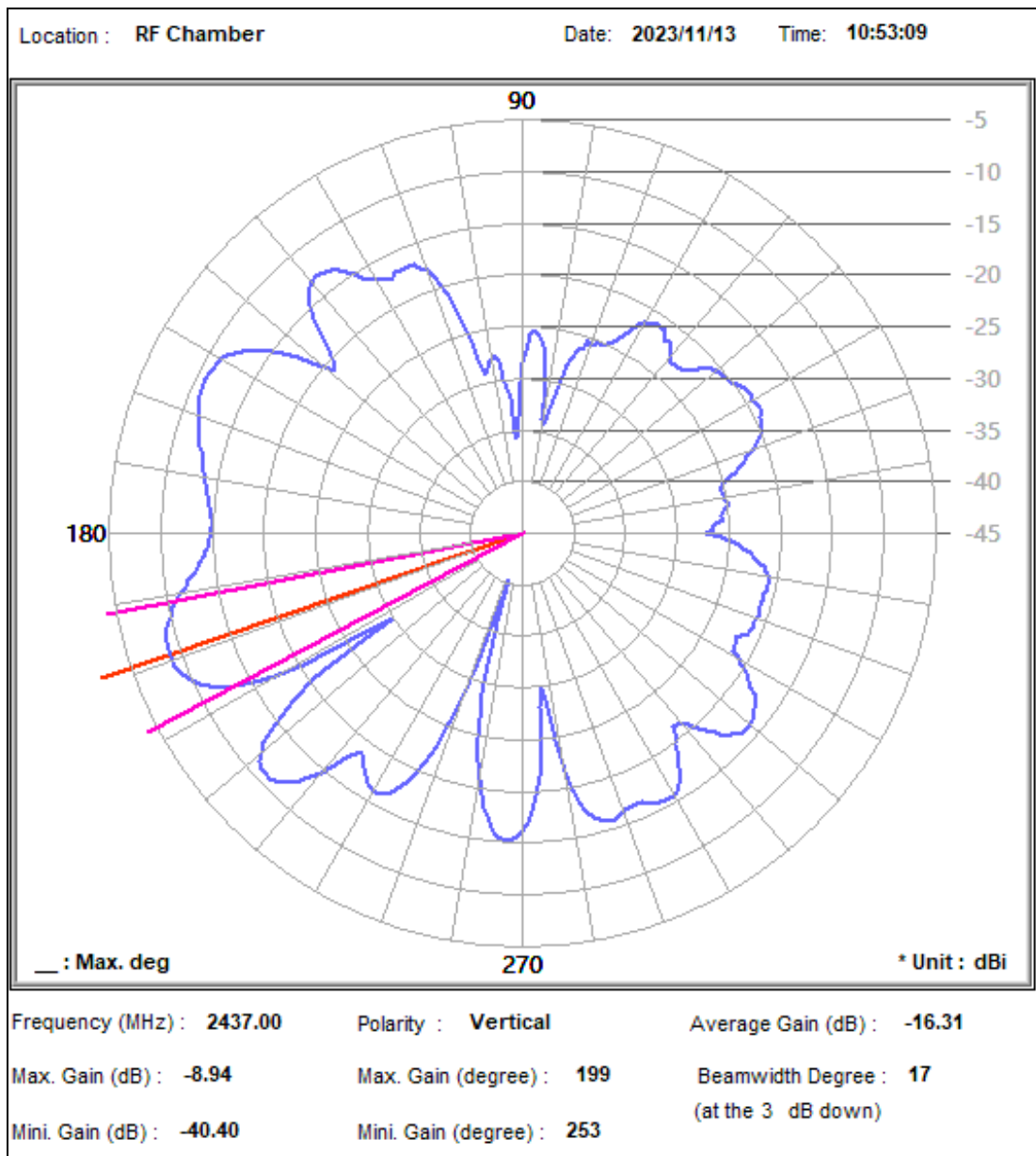
Frequency: 2412 MHz (Vertical)



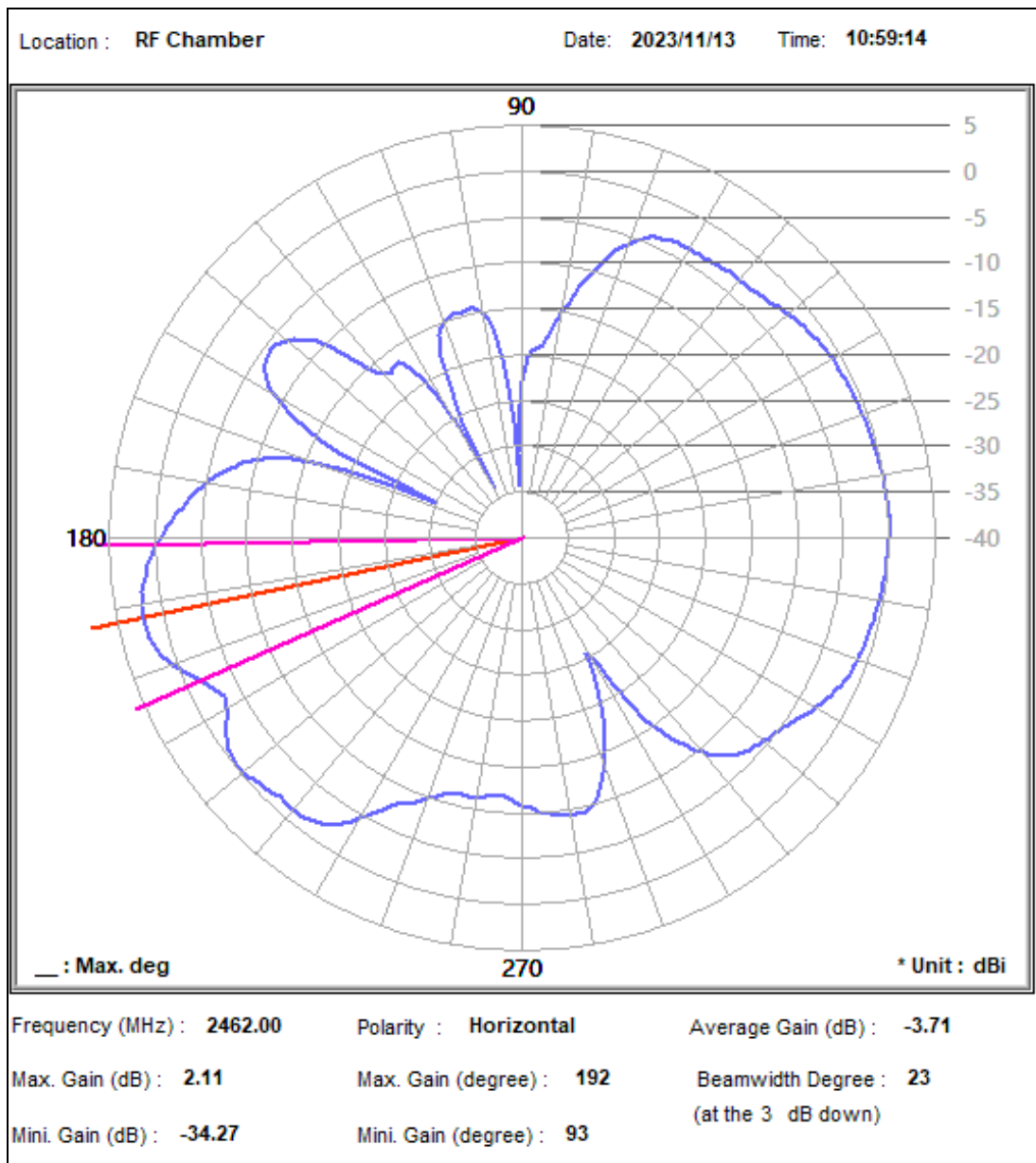
Frequency: 2437 MHz (Horizontal)



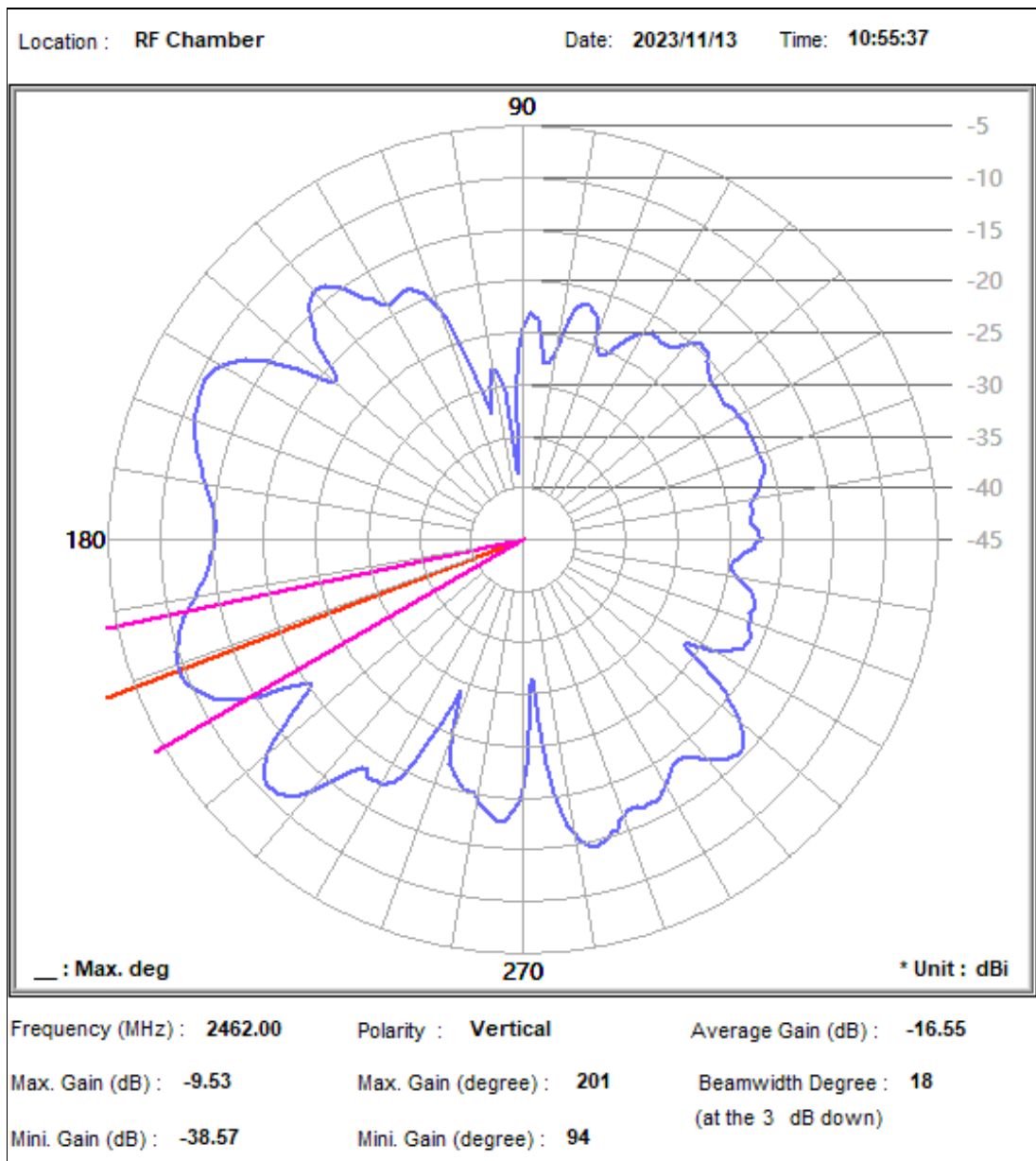
Frequency: 2437 MHz (Vertical)



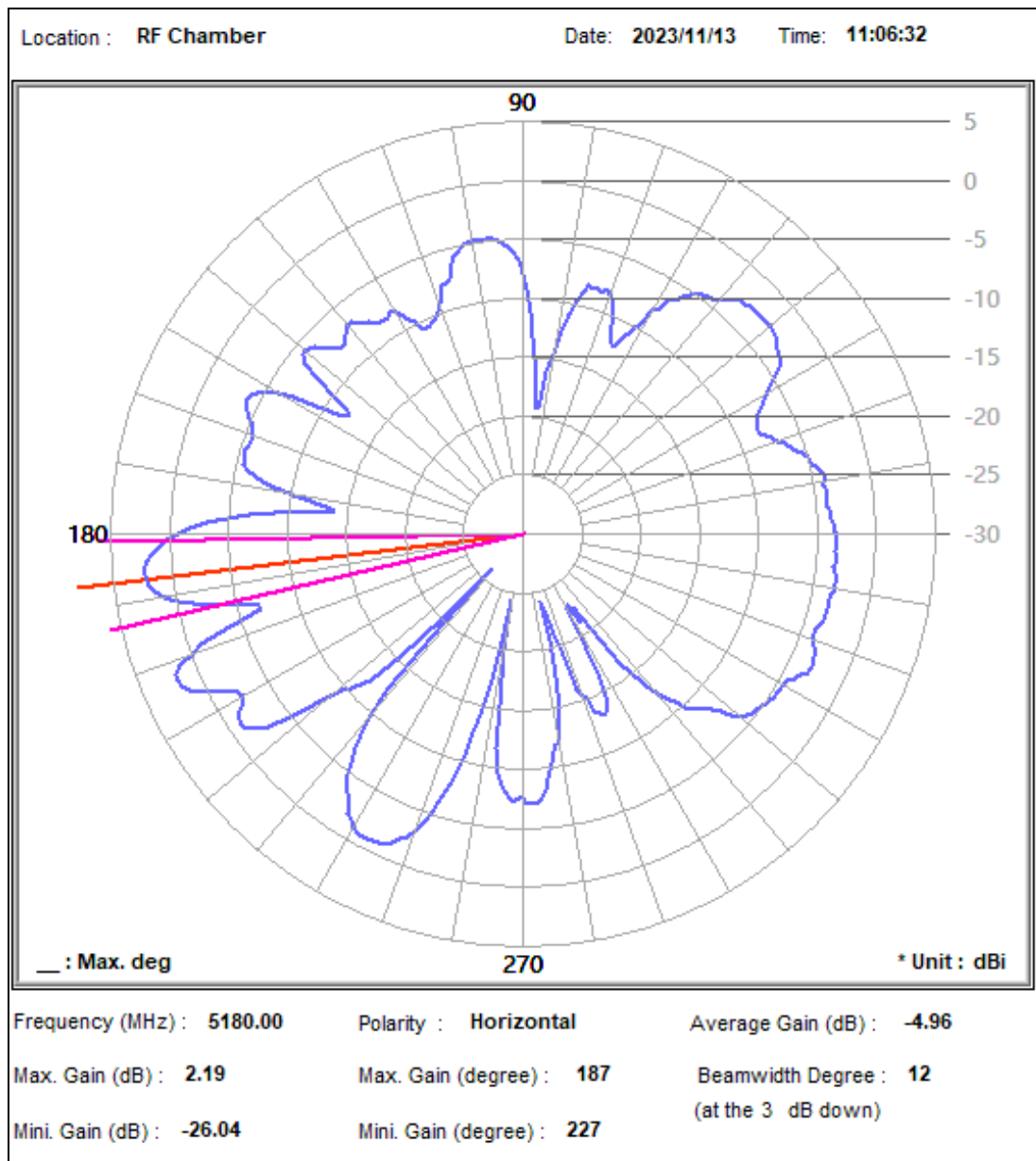
Frequency: 2462 MHz (Horizontal)



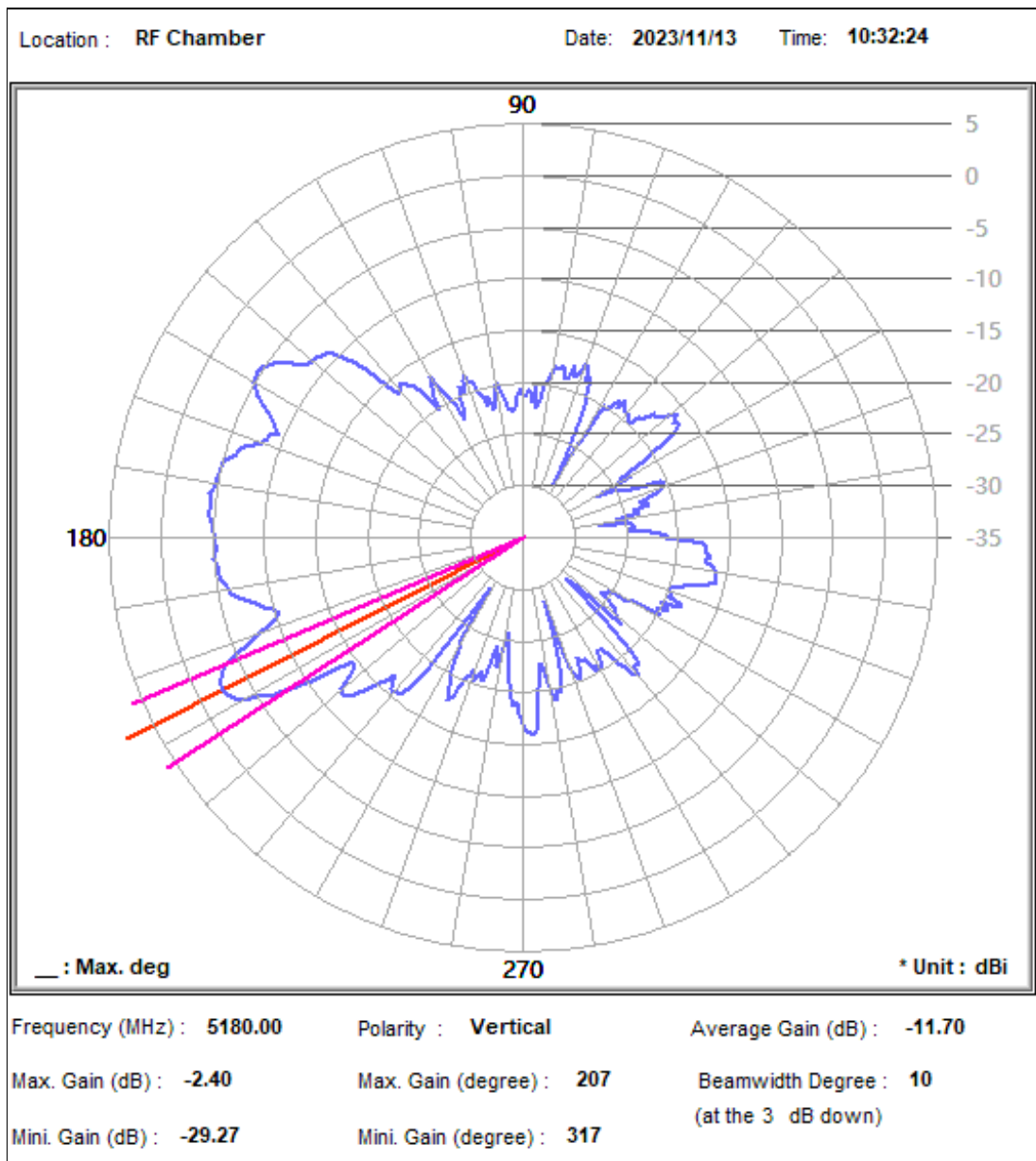
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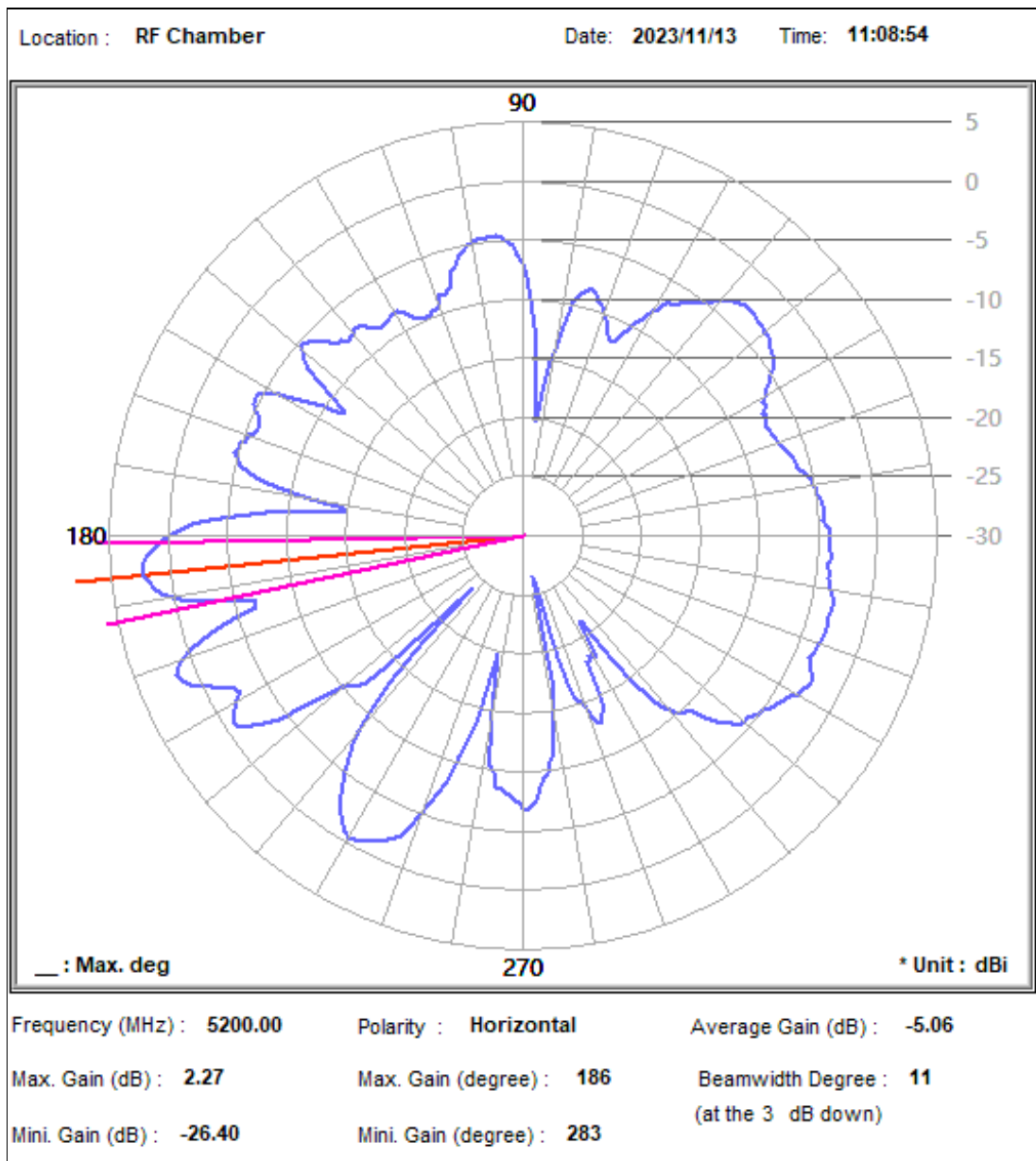
Frequency: 5180 MHz (Horizontal)



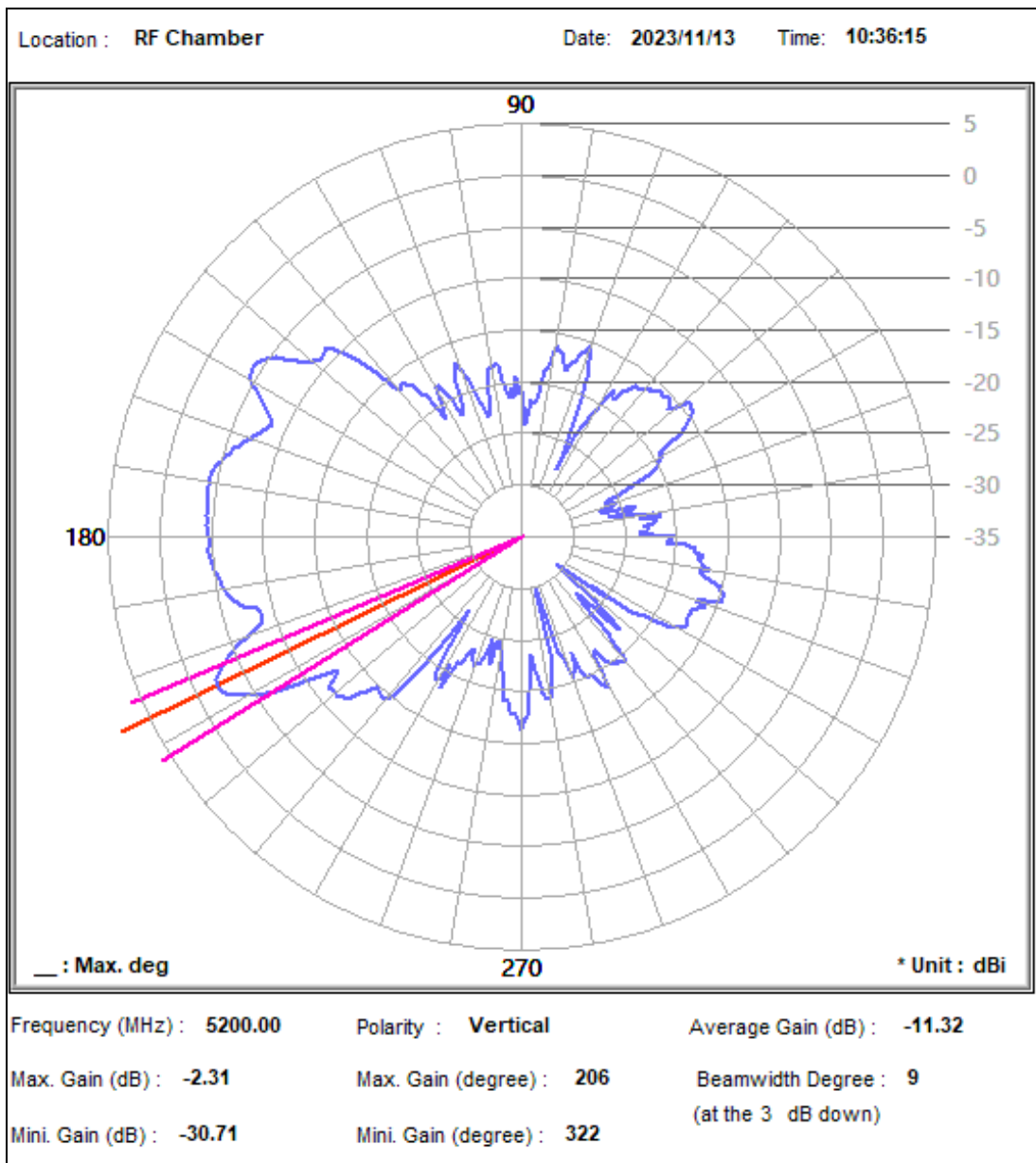
Frequency: 5180 MHz (Vertical)



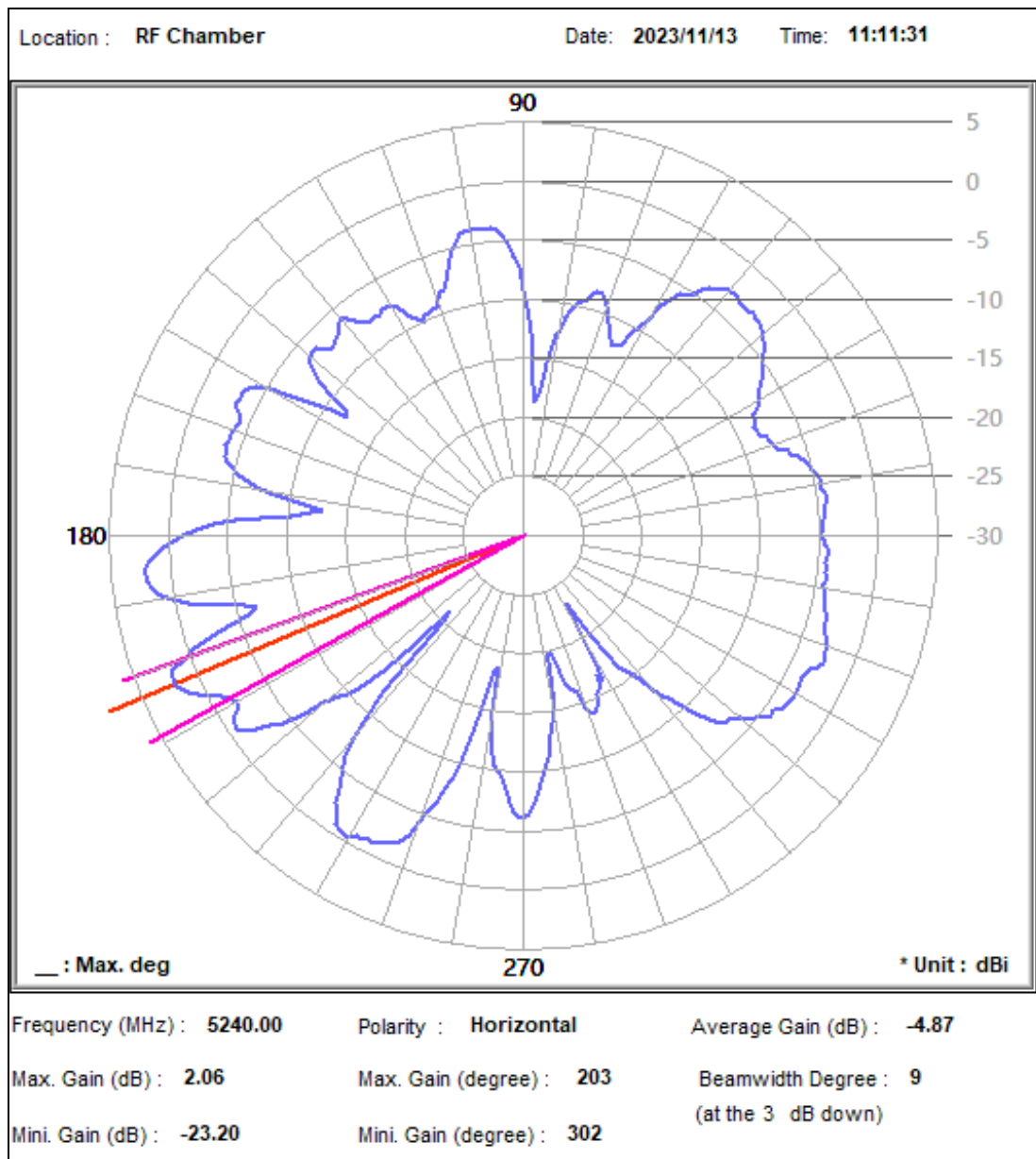
Frequency: 5200 MHz (Horizontal)



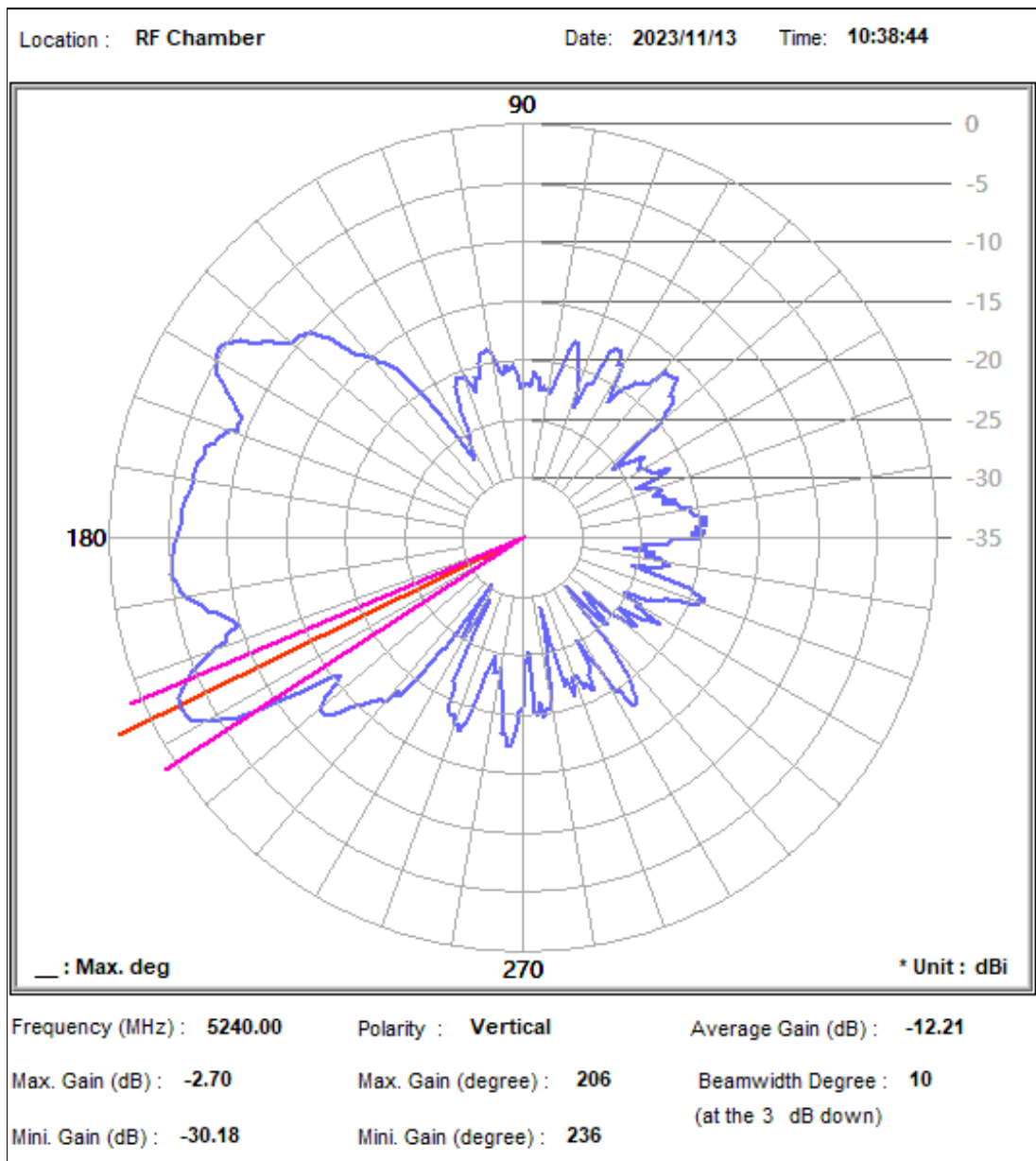
Frequency: 5200 MHz (Vertical)



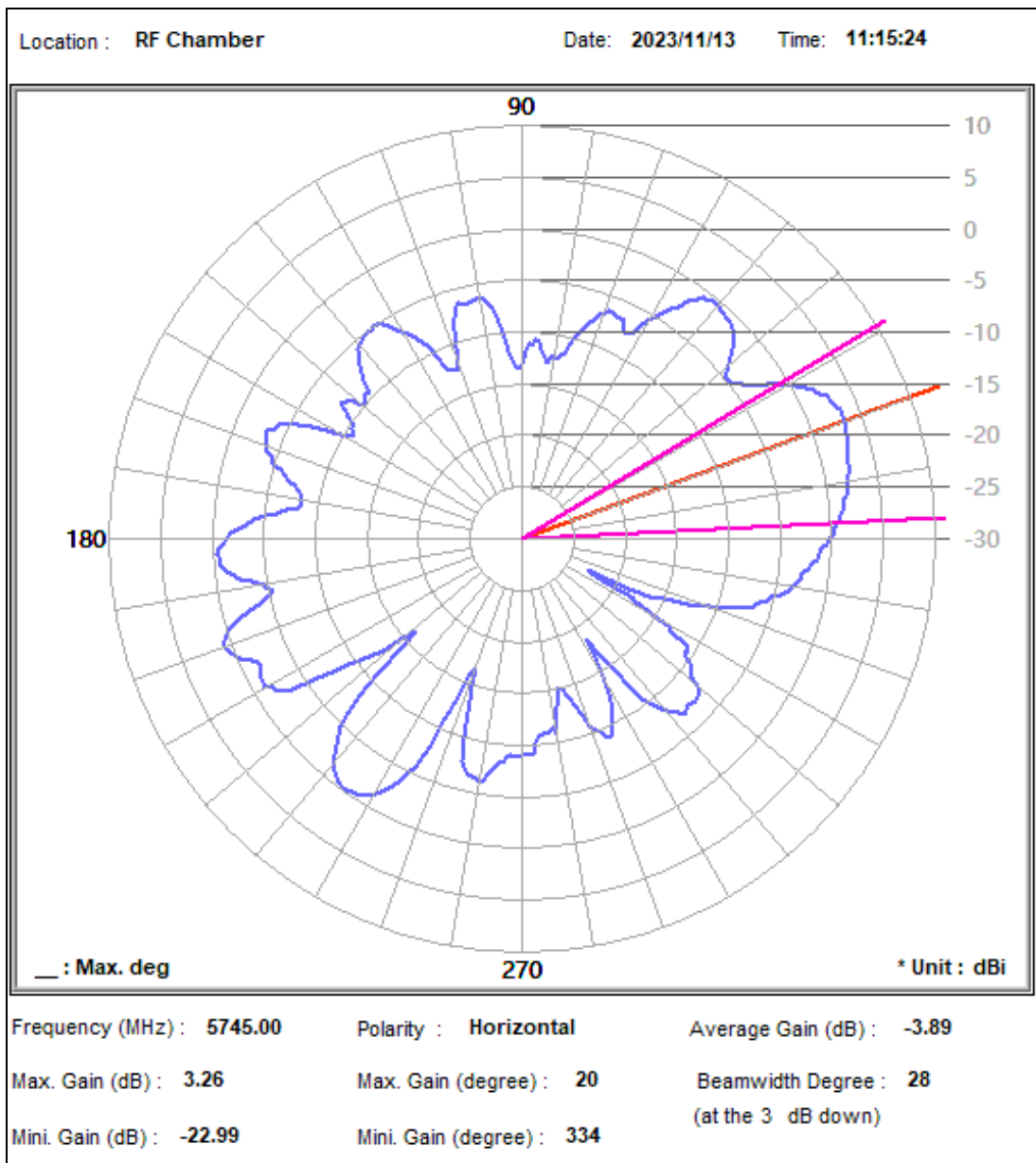
Frequency: 5240 MHz (Horizontal)



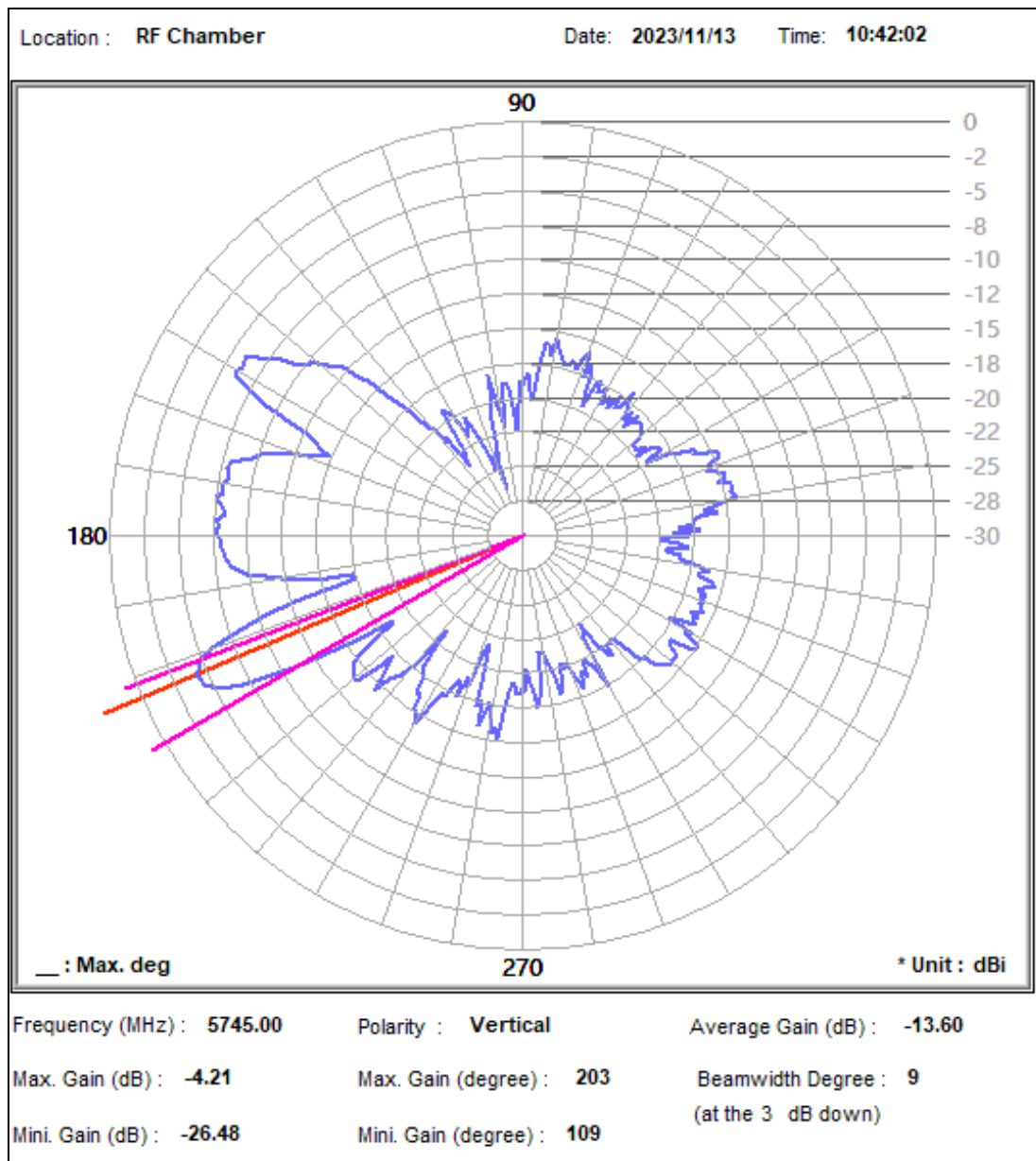
Frequency: 5240 MHz (Vertical)



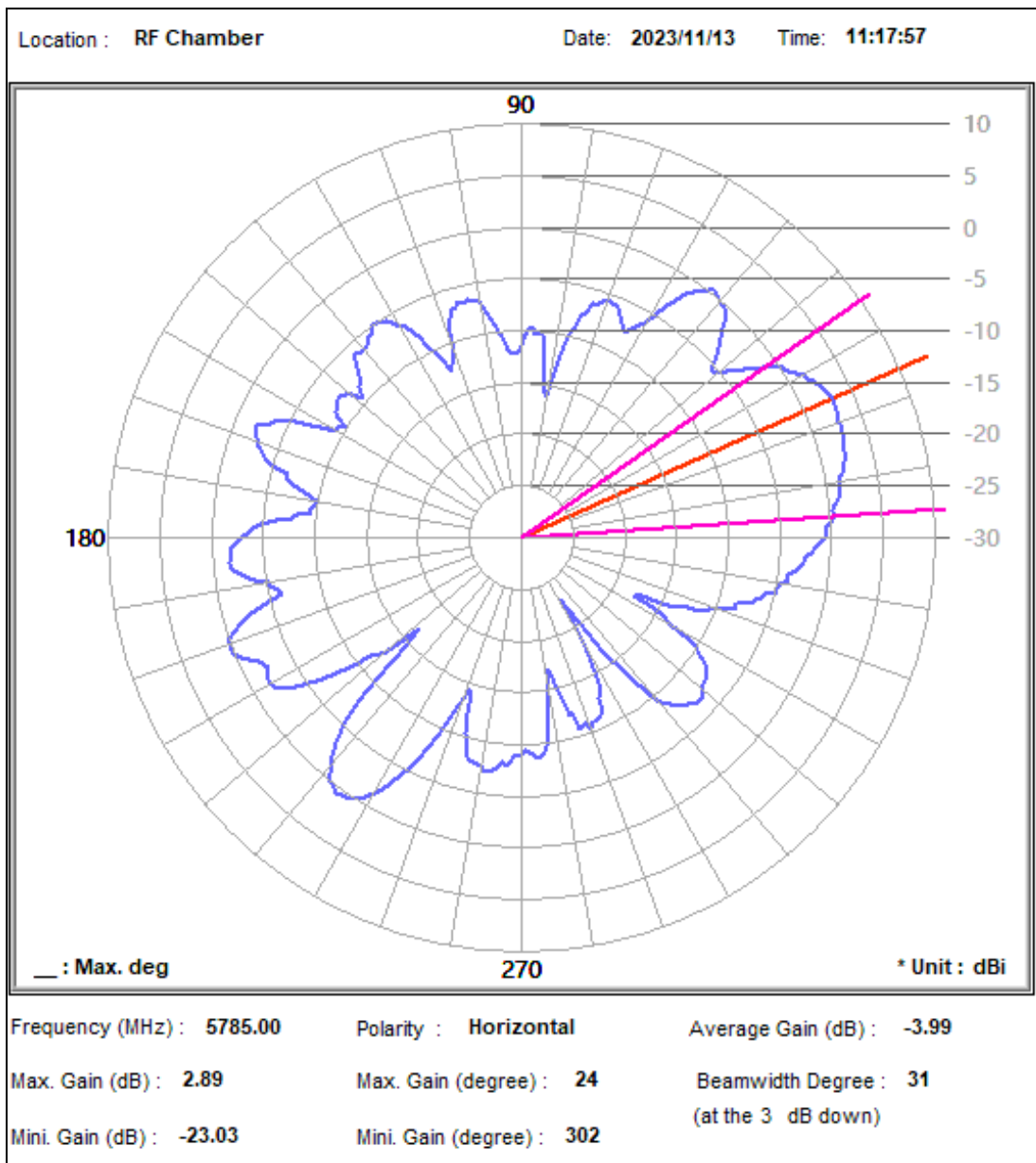
Frequency: 5745 MHz (Horizontal)



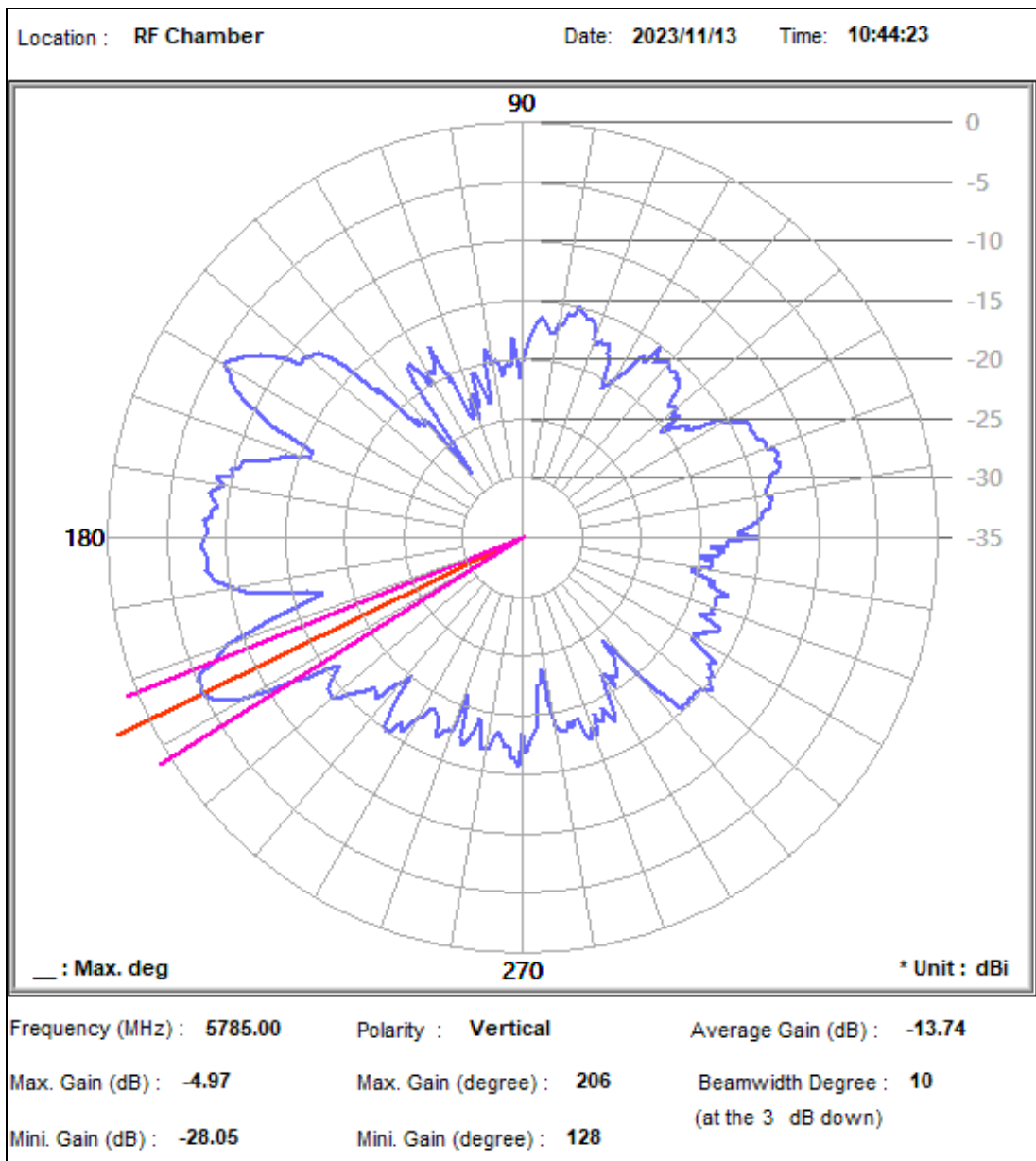
Frequency: 5745 MHz (Vertical)



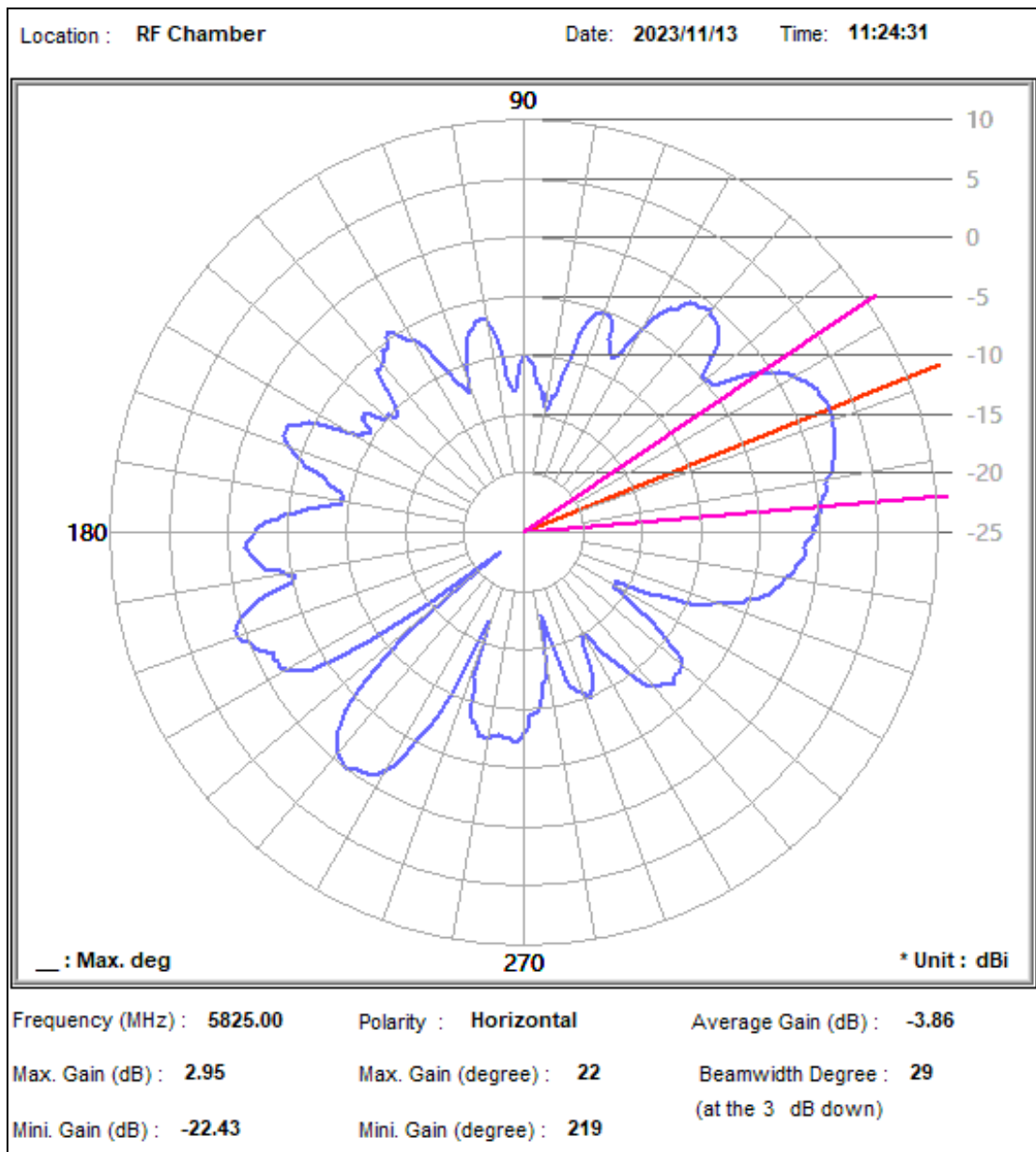
Frequency: 5785 MHz (Horizontal)



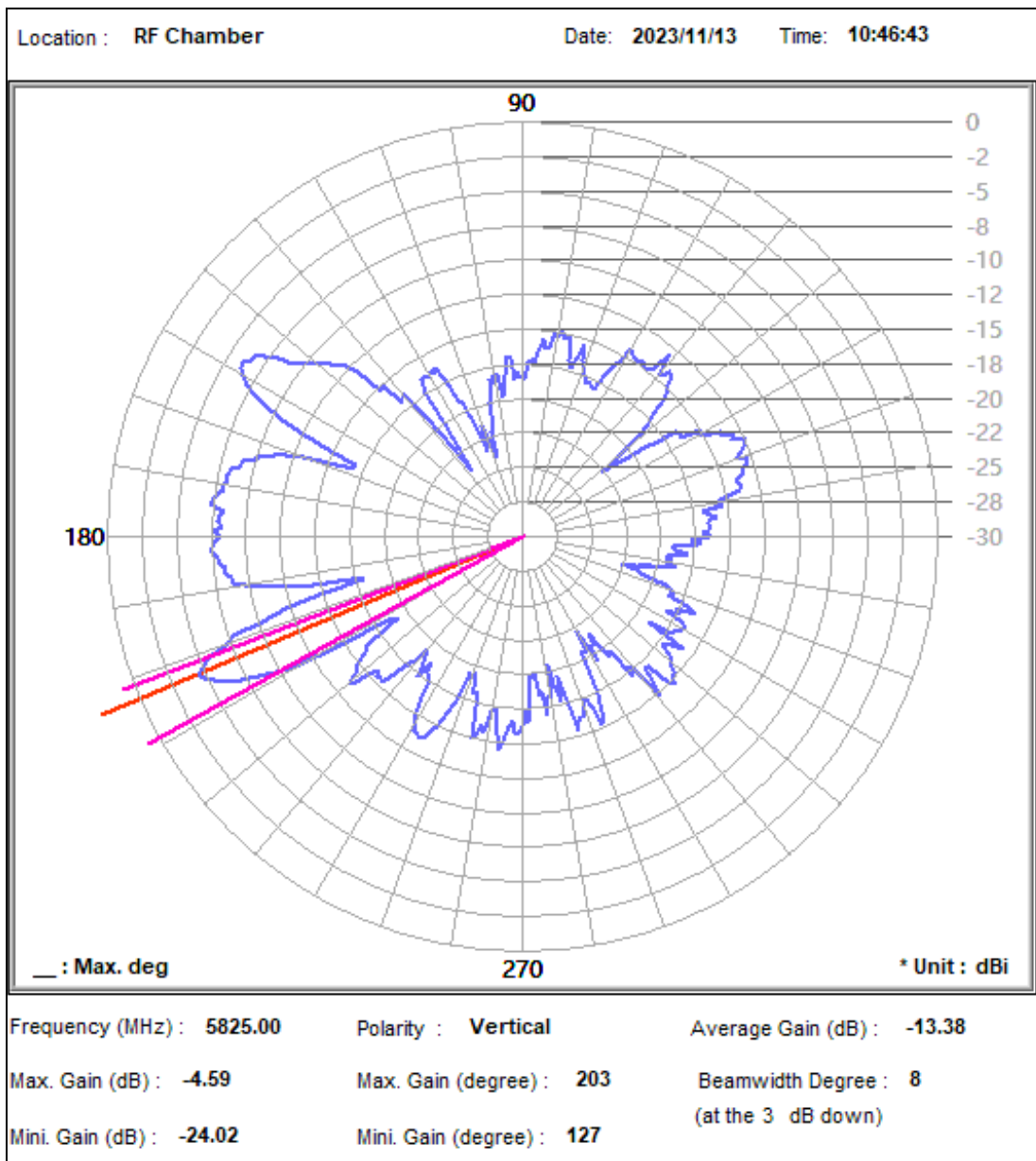
Frequency: 5785 MHz (Vertical)



Frequency: 5825 MHz (Horizontal)



Frequency: 5825 MHz (Vertical)



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

