

Antenna Under Test Report

Model:AT2403

Panasonic

1. Antenna Performance specifications : Refer to the separate file

2. Antenna Gain detail:

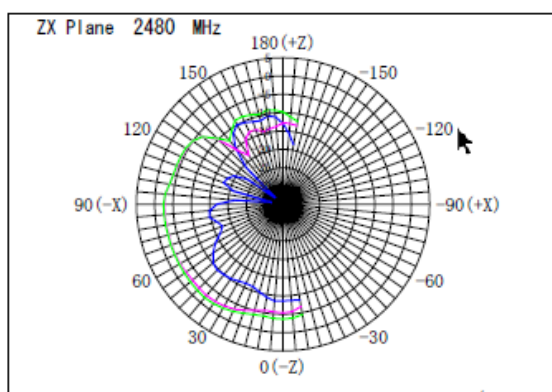
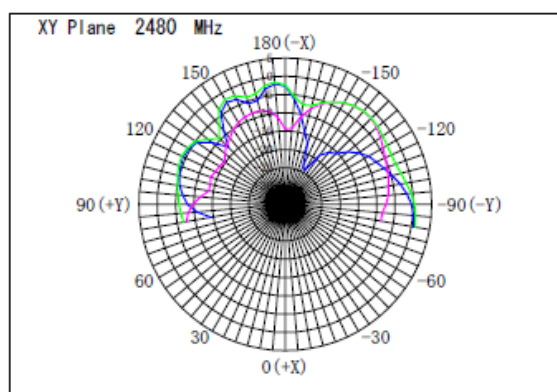
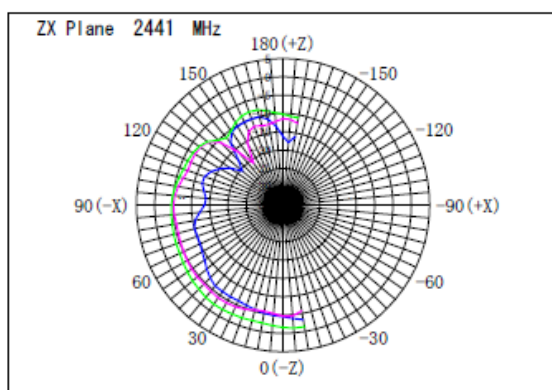
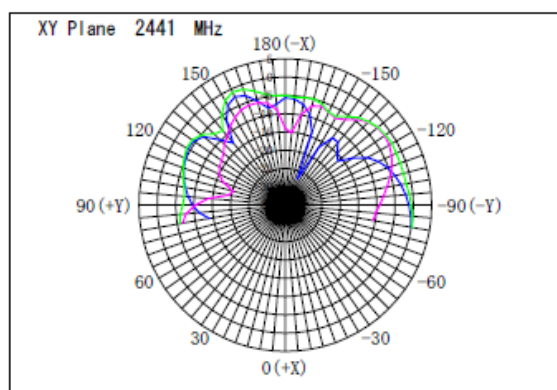
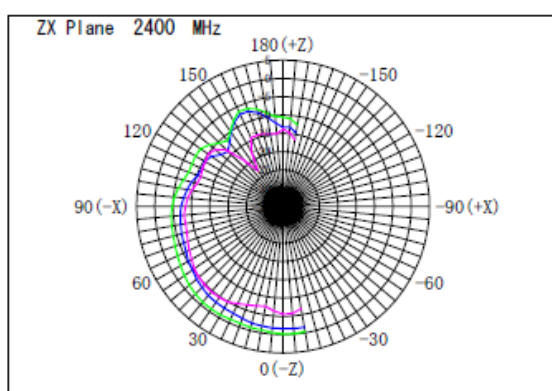
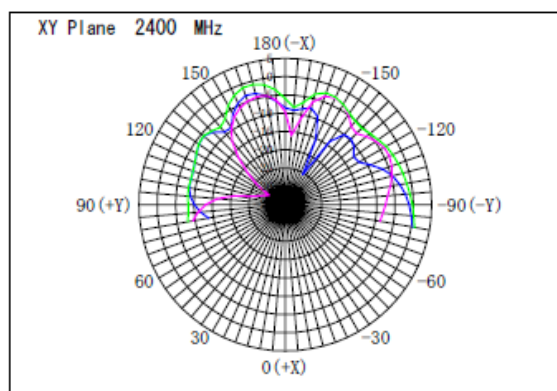
LEFT											
2400-2480MHz				5150-5350MHz				5470-5875MHz			
$\pm 100\text{deg}$		360deg		$\pm 100\text{deg}$		360deg		$\pm 100\text{deg}$		360deg	
Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN
-3.72	0.60	-3.36	3.51	-2.36	1.29	-3.45	1.29	-2.26	0.83	-3.27	0.83

RIGHT											
2400-2480MHz				5150-5350MHz				5470-5875MHz			
$\pm 100\text{deg}$		360deg		$\pm 100\text{deg}$		360deg		$\pm 100\text{deg}$		360deg	
Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN
-3.88	1.01	-3.54	1.78	-2.00	2.38	-3.06	2.38	-2.95	2.17	-3.72	2.17

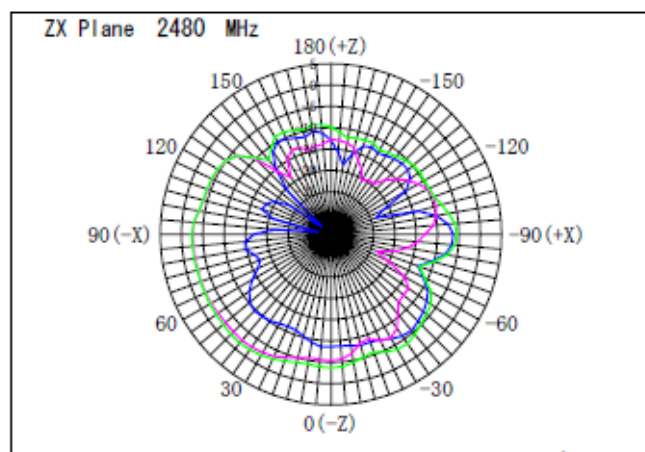
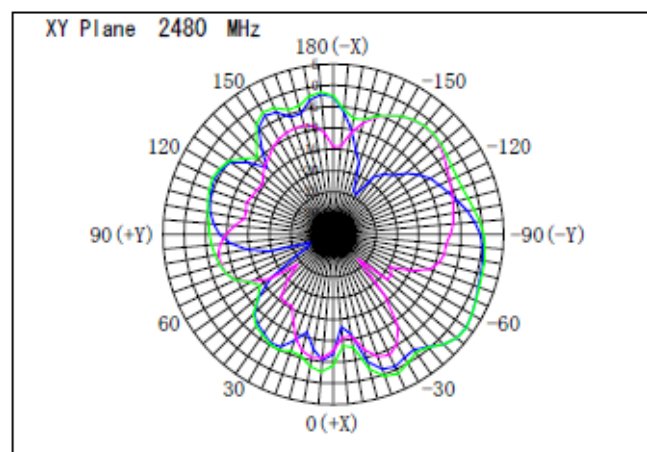
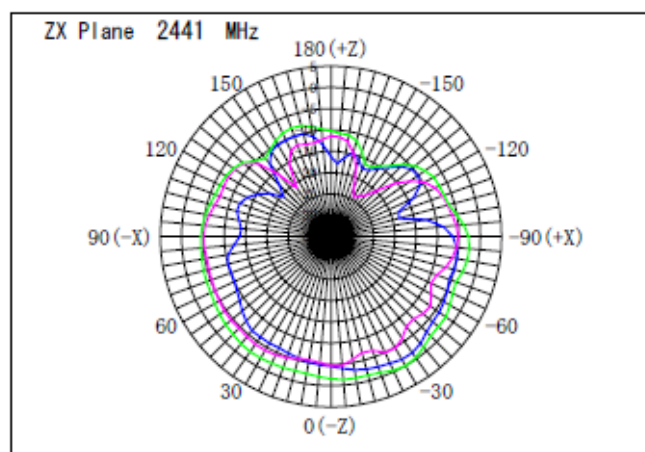
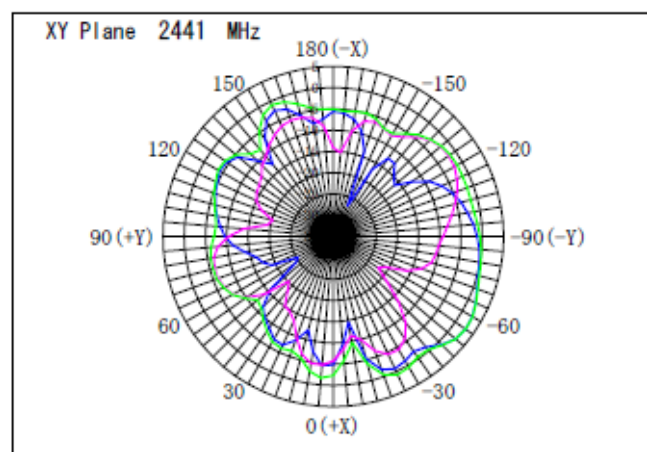
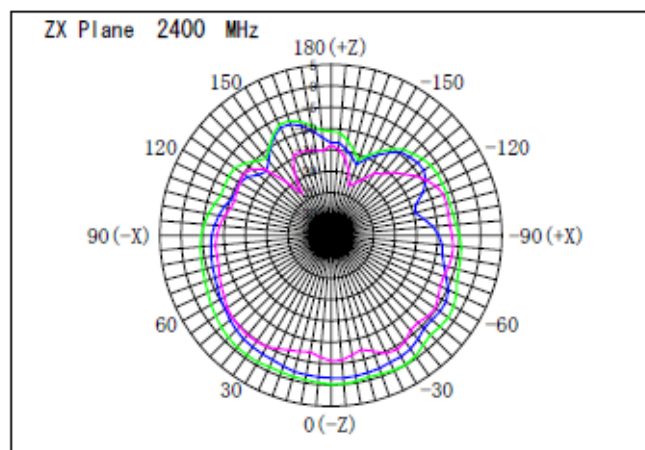
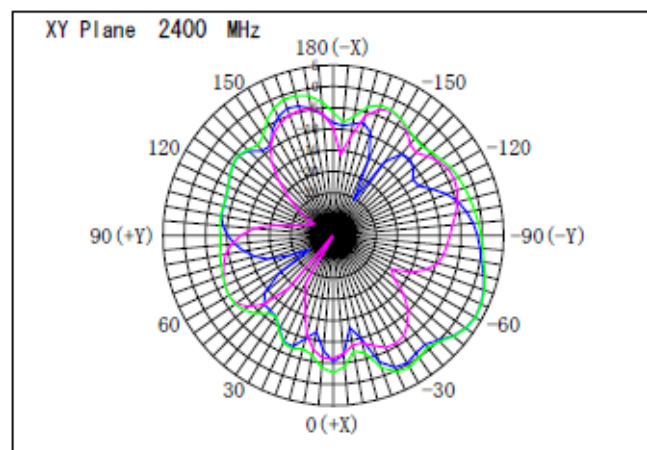
3. Antenna Pattern:

(1) ANT_LEFT

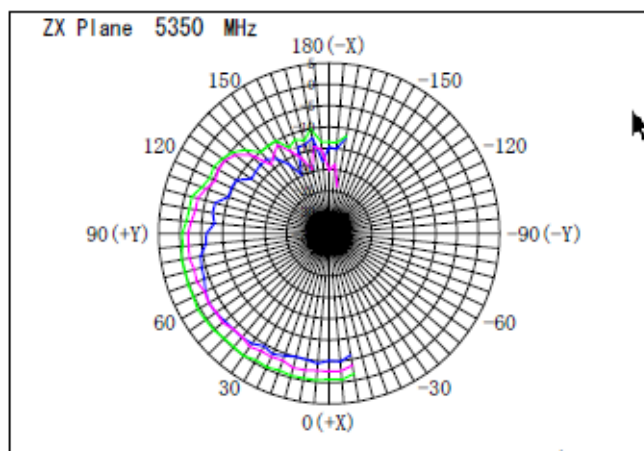
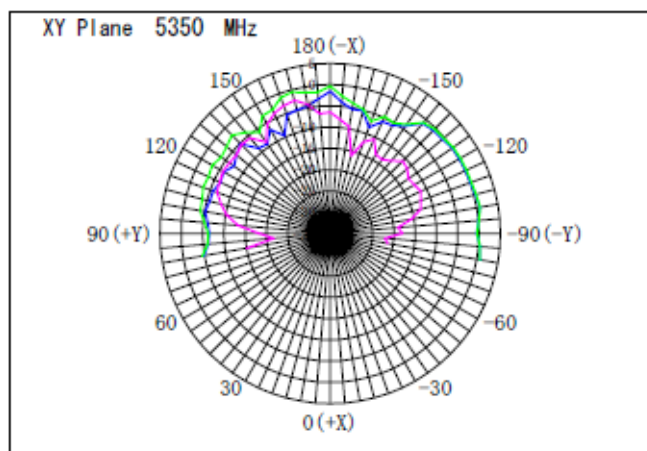
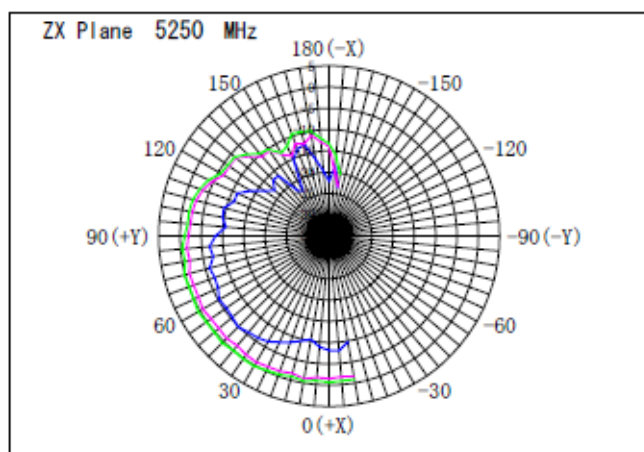
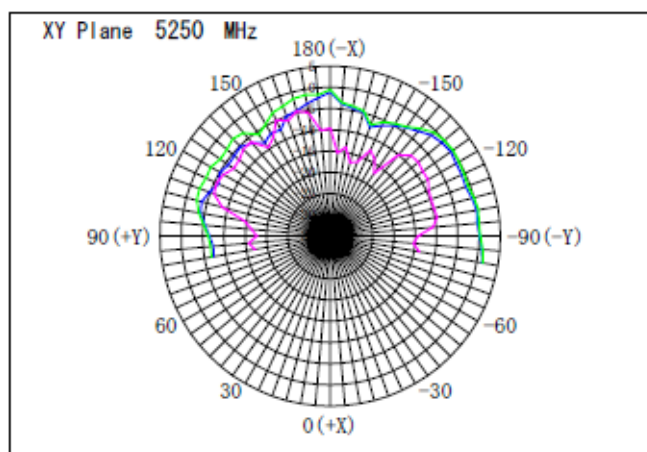
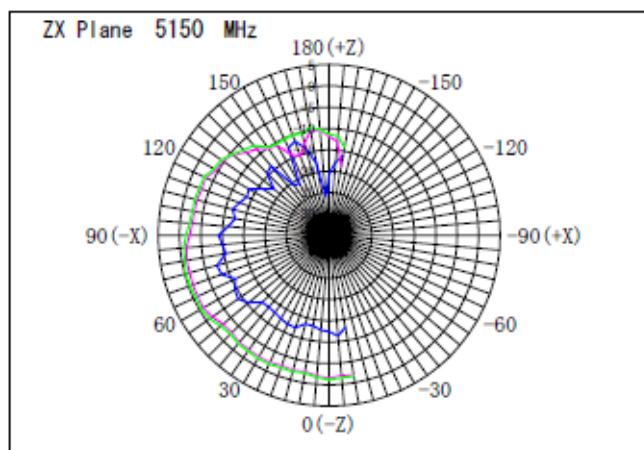
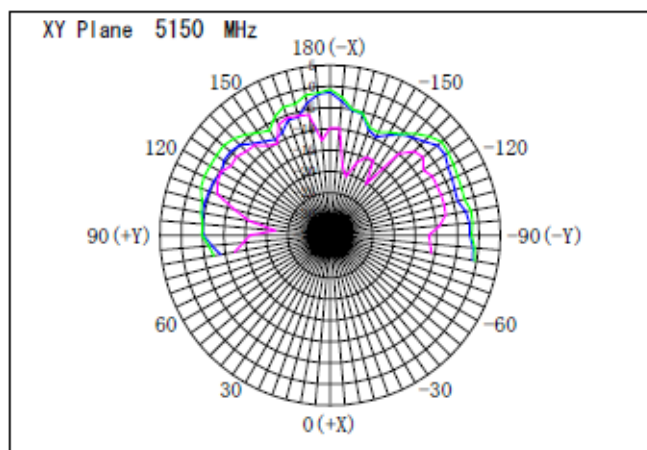
① 2400~2484MHz $\pm 100\text{deg}$



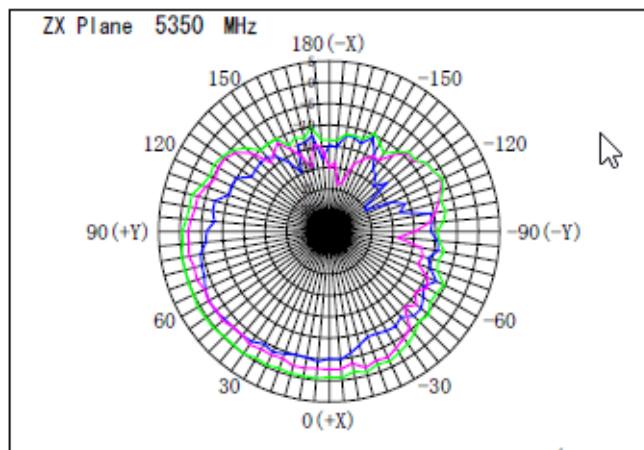
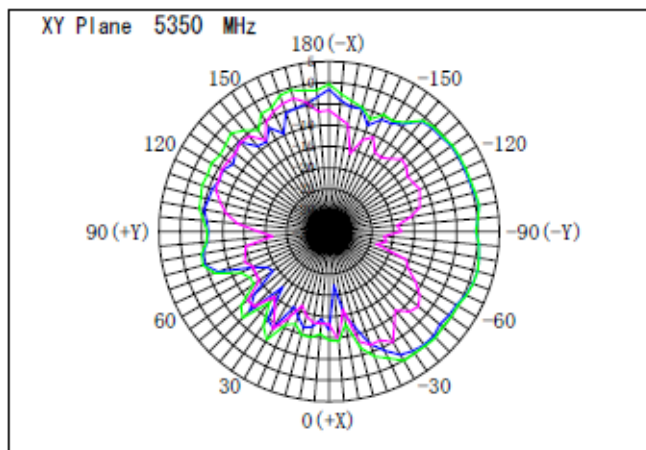
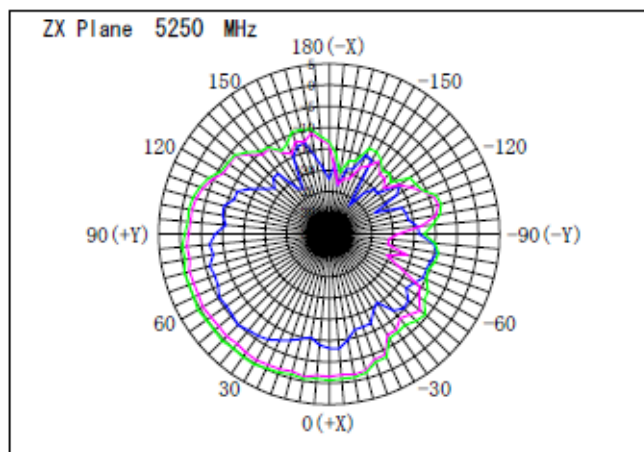
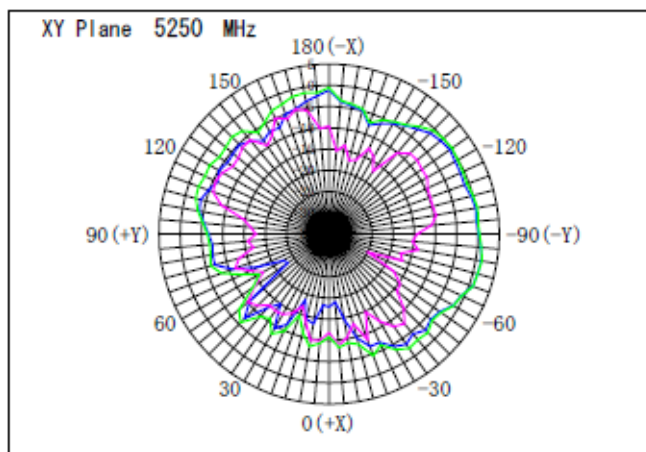
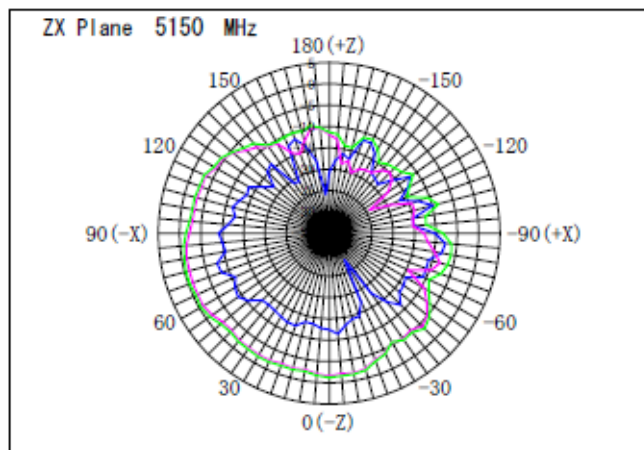
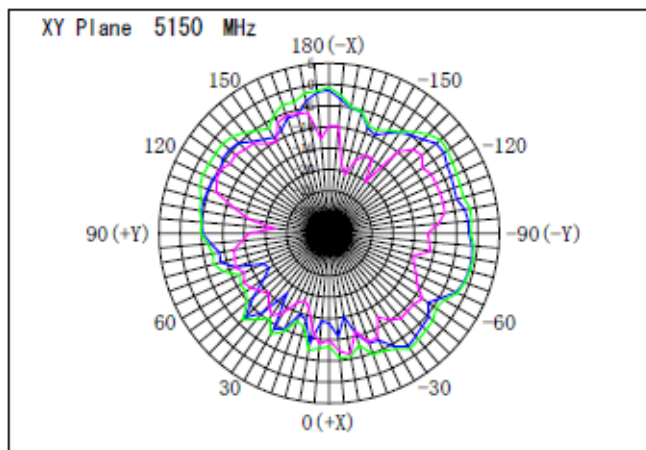
②2400~2484MHz 360deg



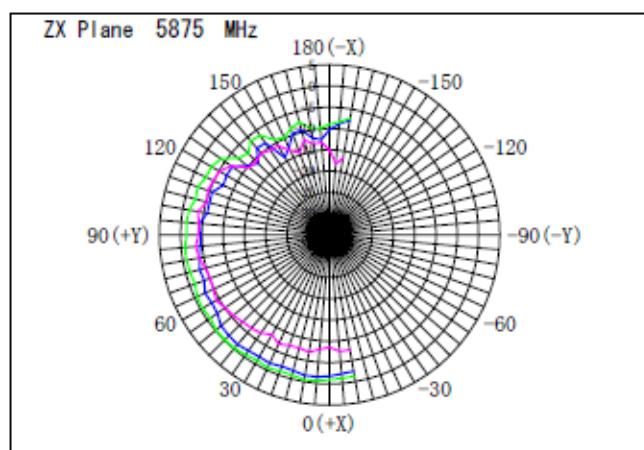
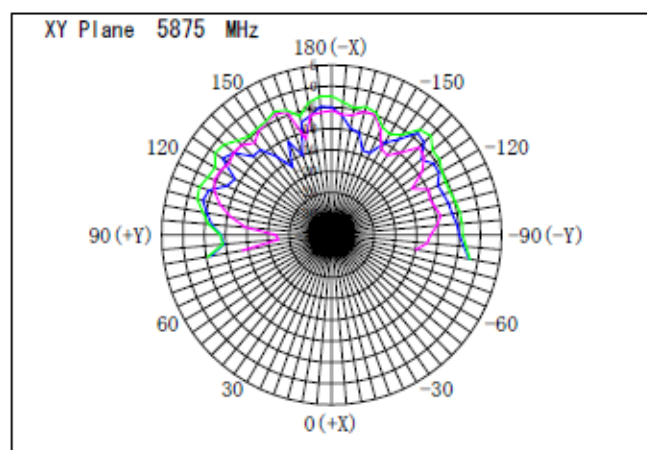
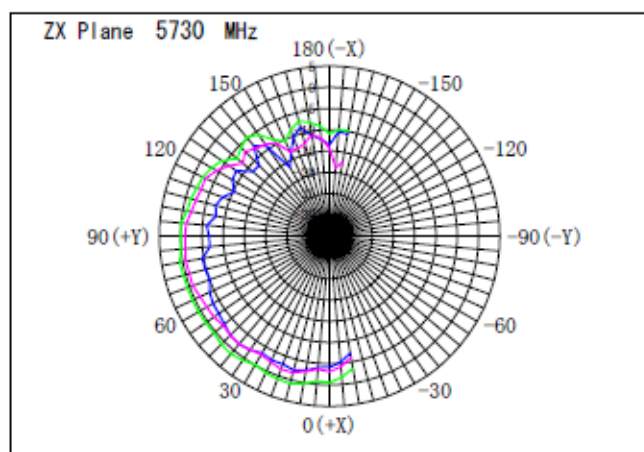
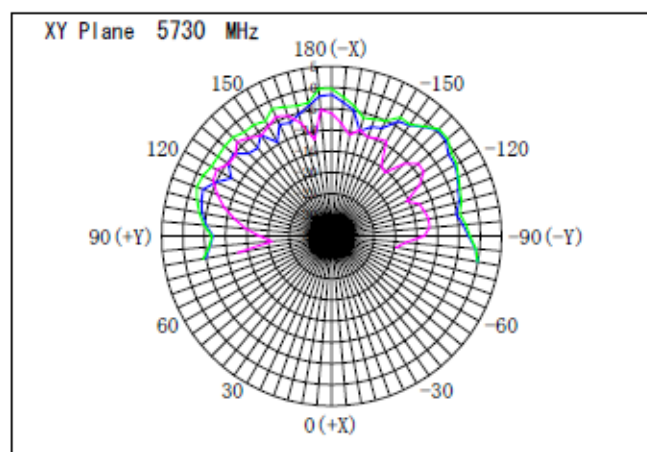
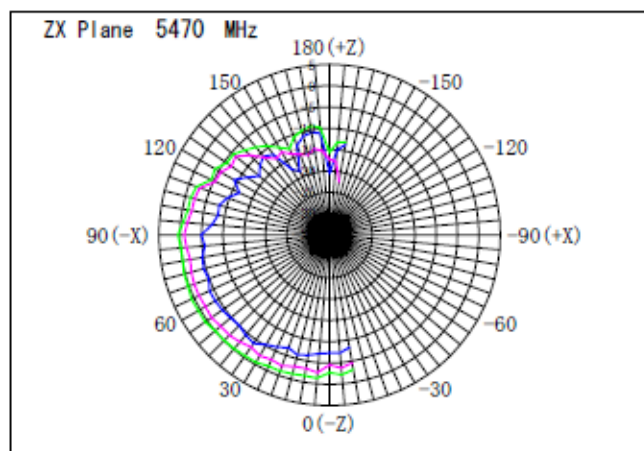
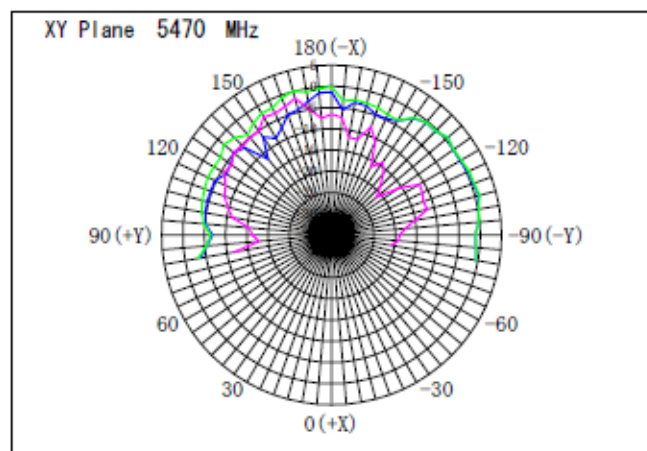
③5150~5350MHz $\pm 100\text{deg}$



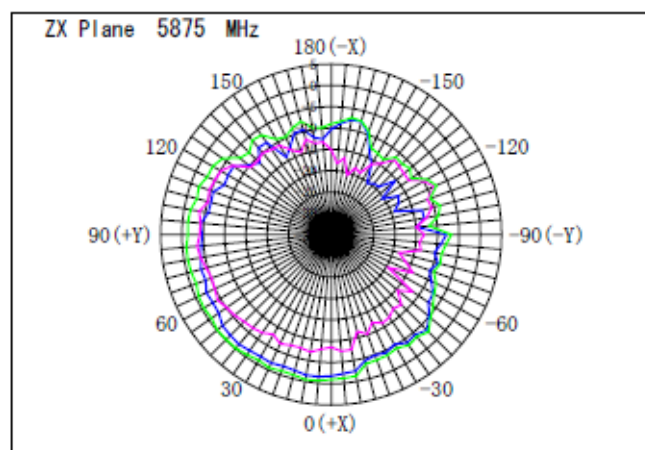
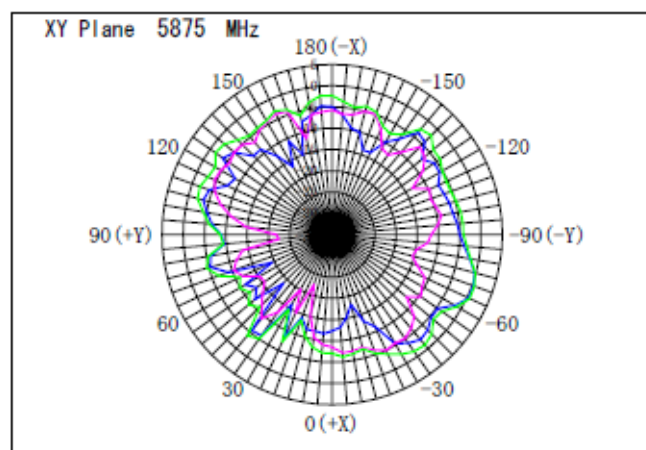
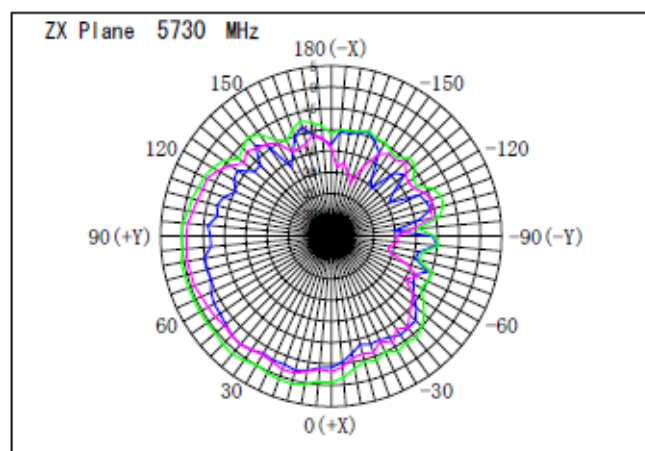
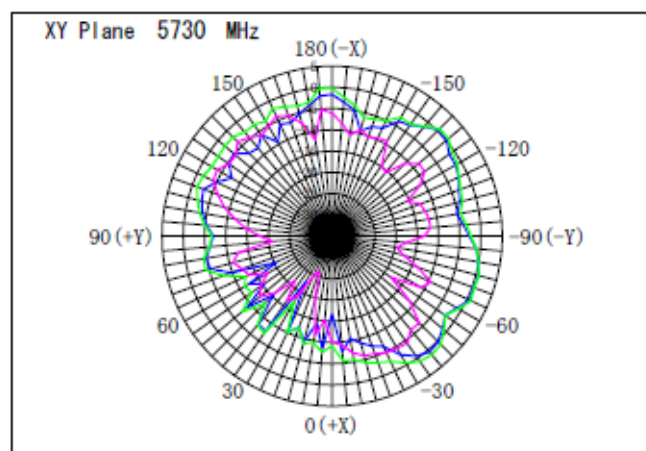
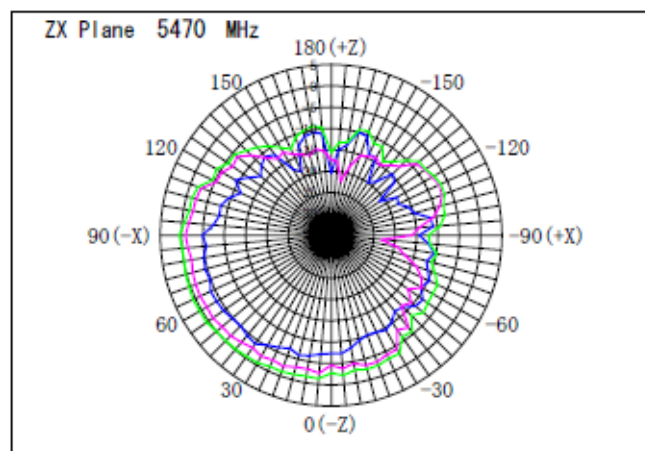
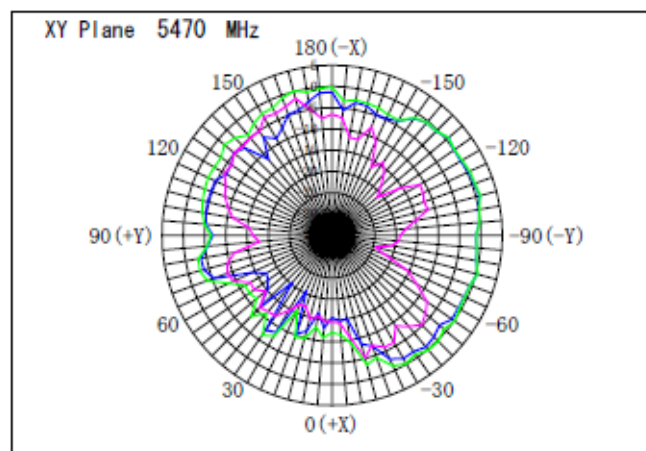
④5150~5350MHz 360deg



⑤5470~5875MHz $\pm 100\text{deg}$

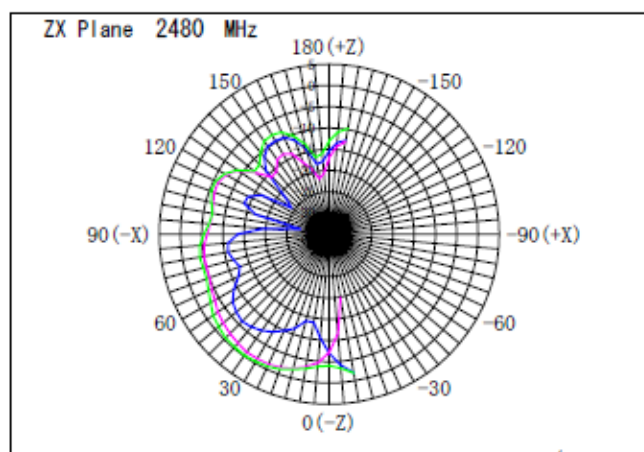
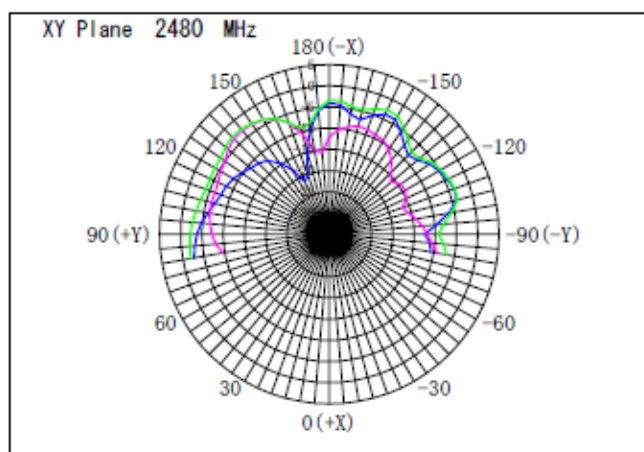
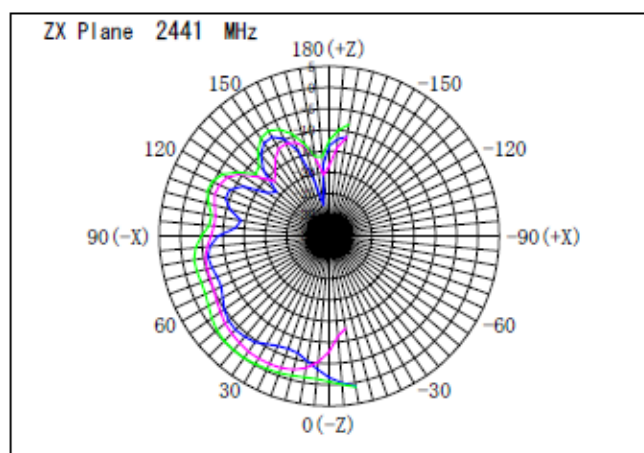
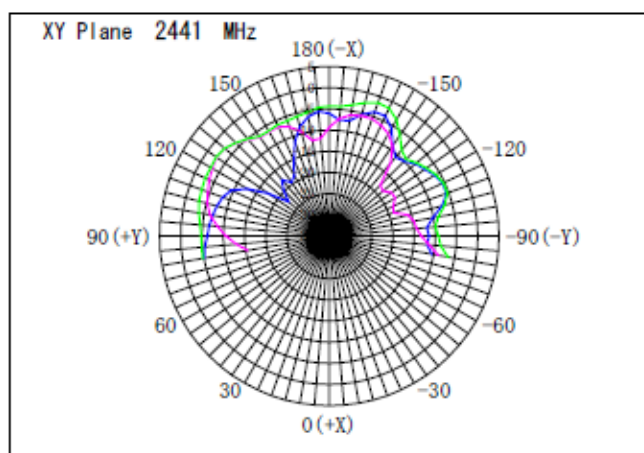
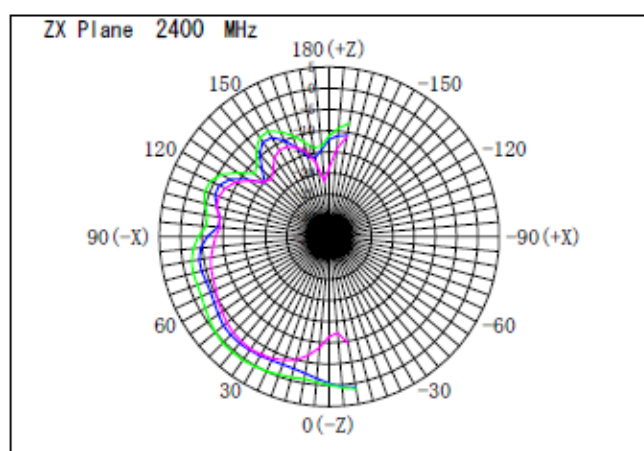
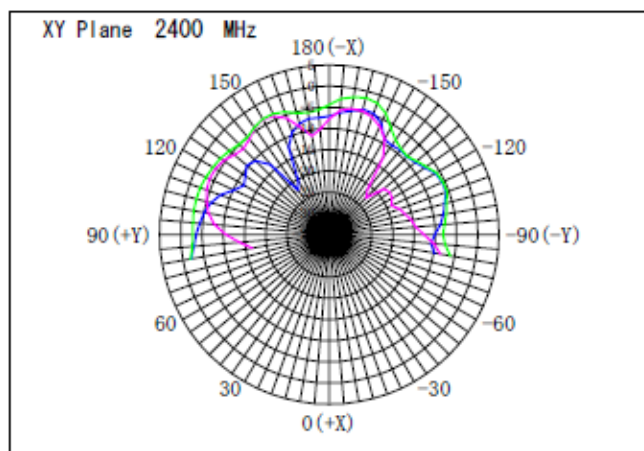


⑥5470~5875MHz 360deg

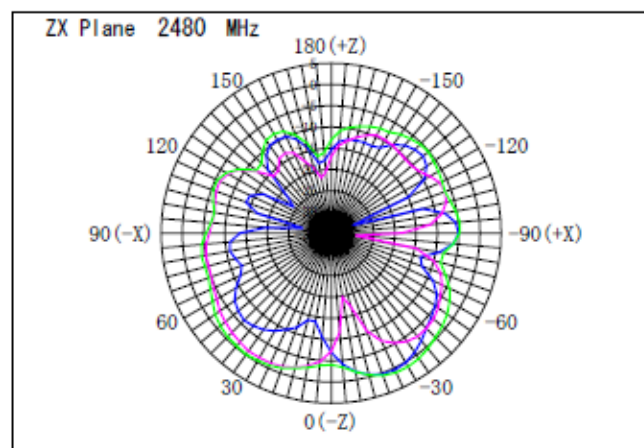
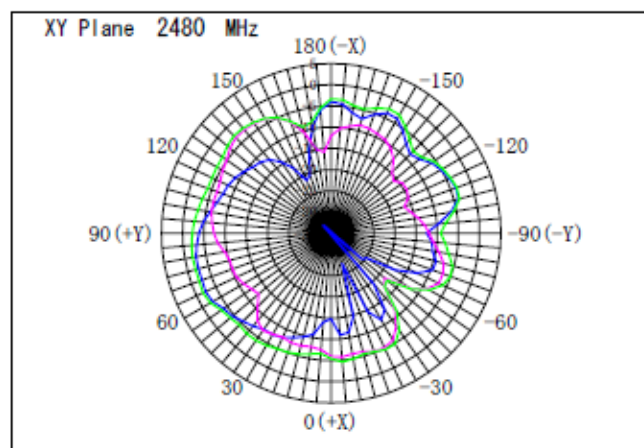
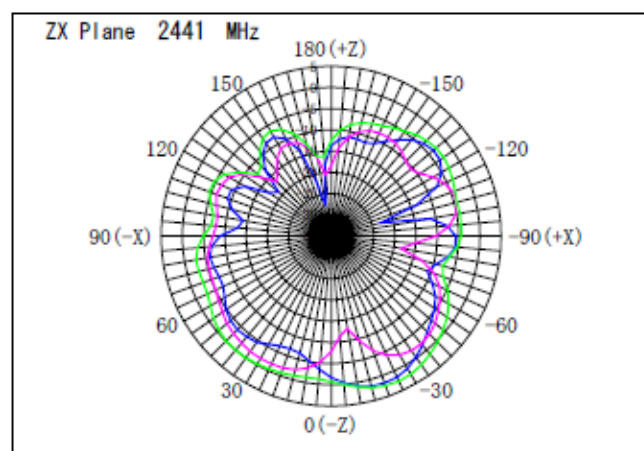
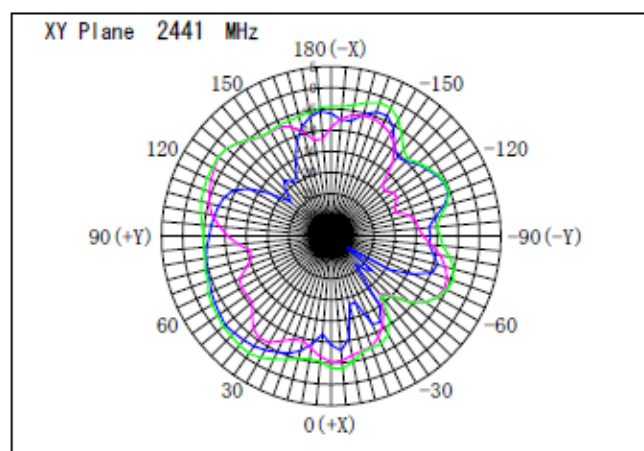
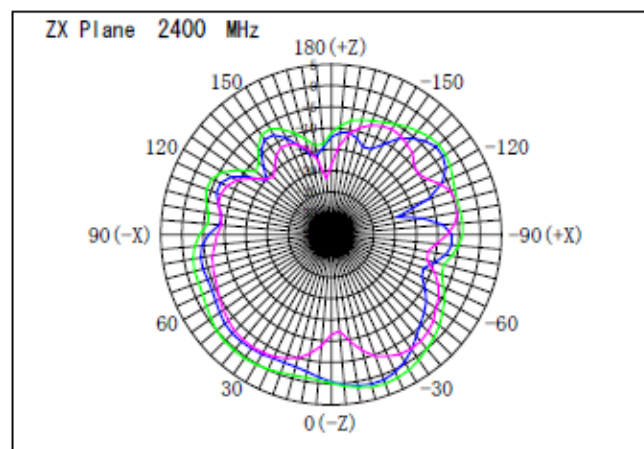
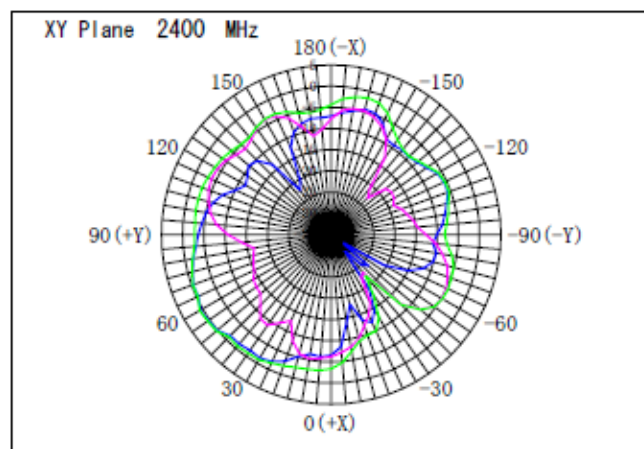


(2) ANT_RIGHT

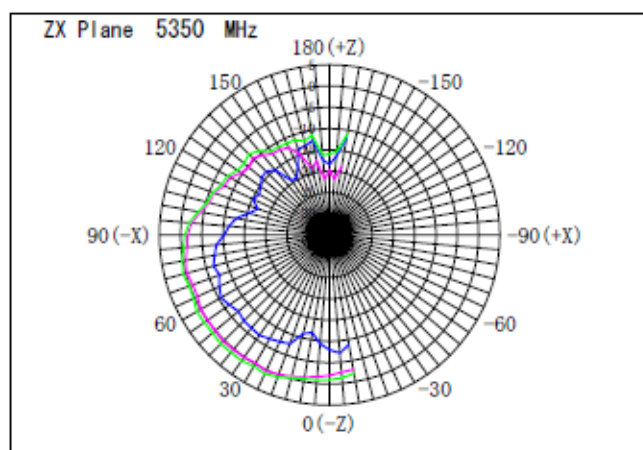
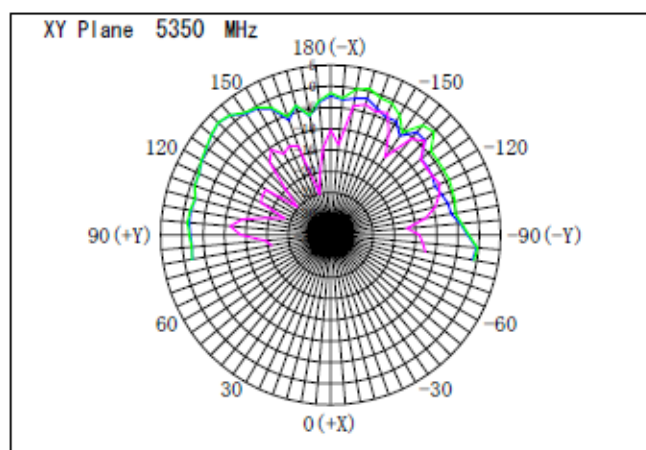
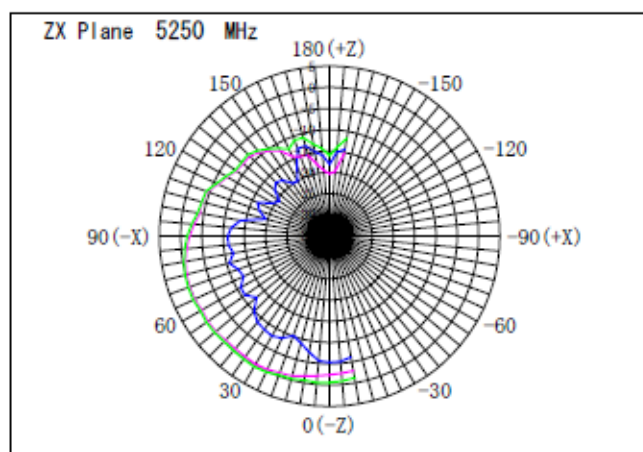
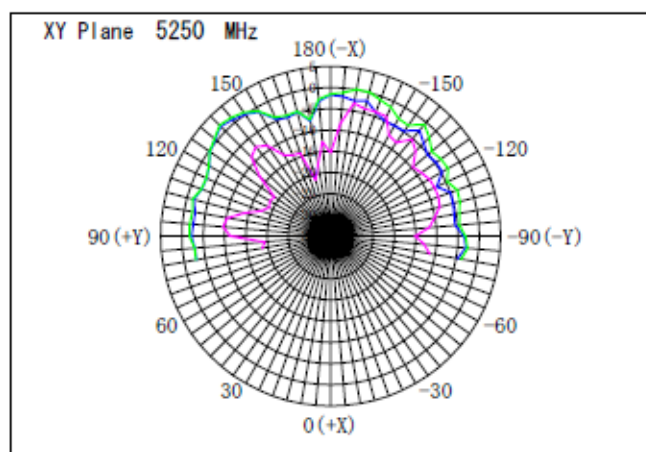
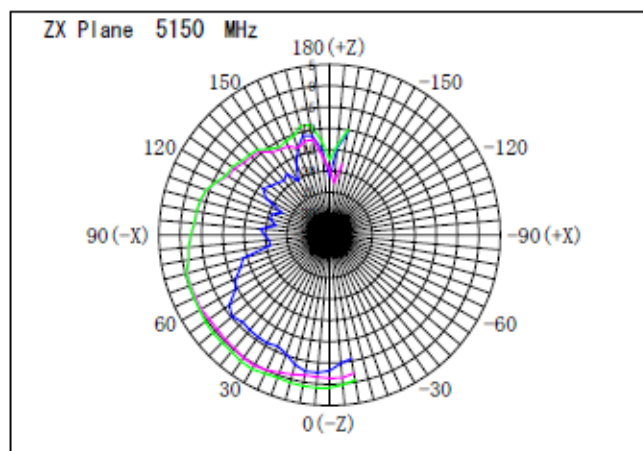
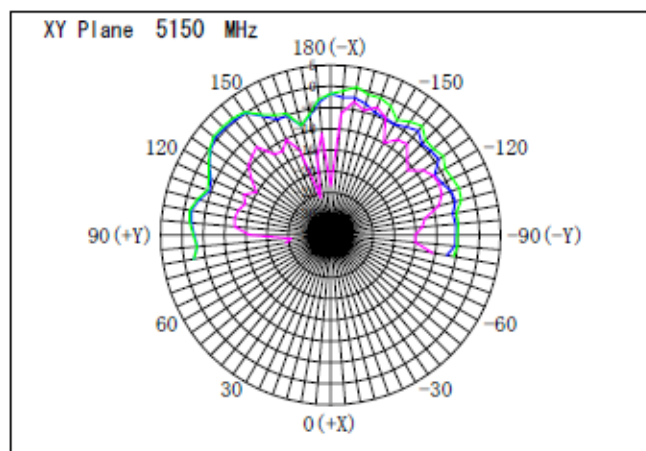
①2400~2484MHz $\pm 100\text{deg}$



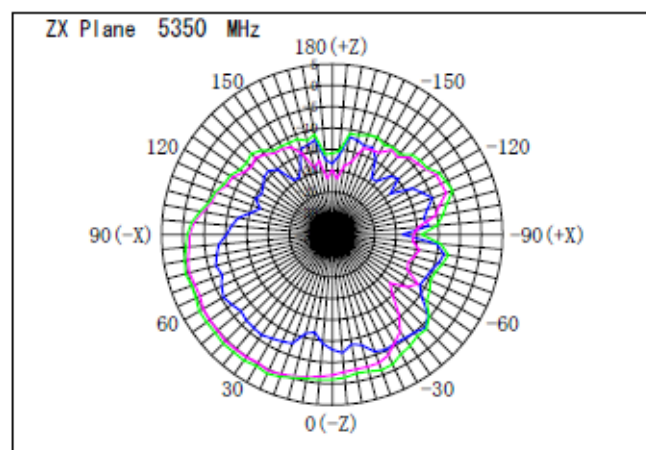
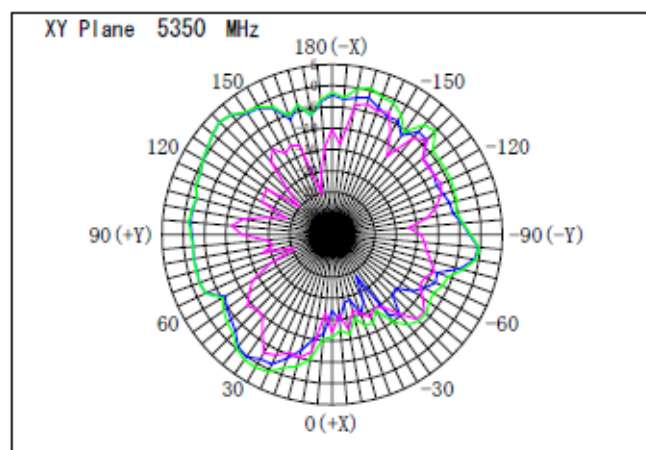
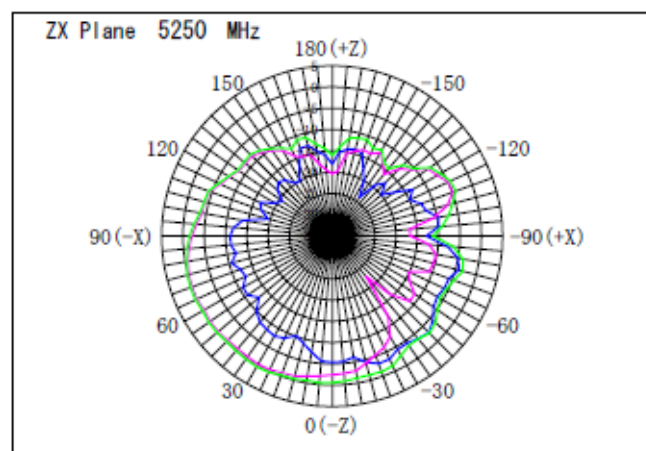
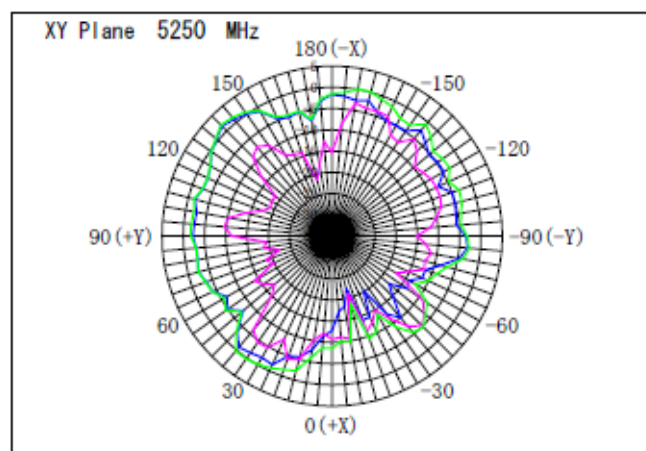
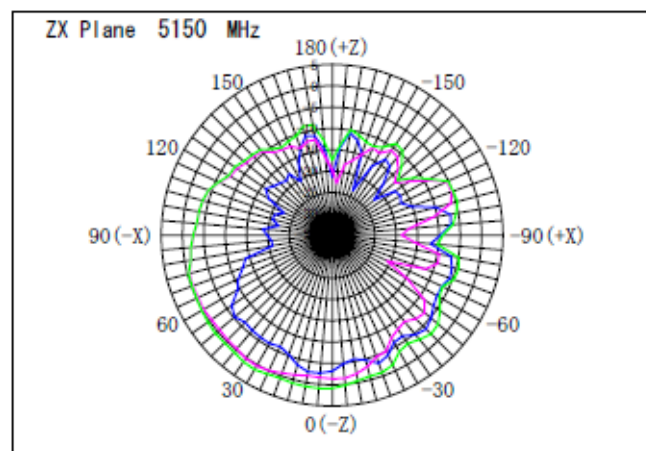
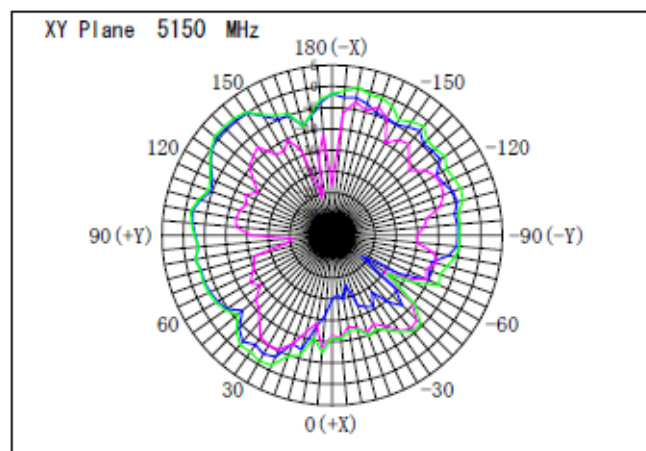
②2400~2484MHz 360deg



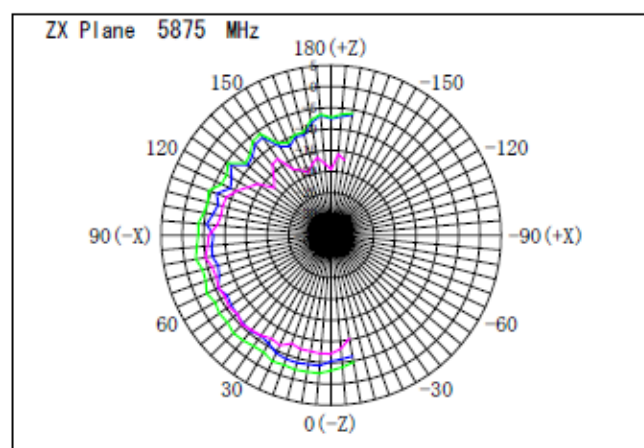
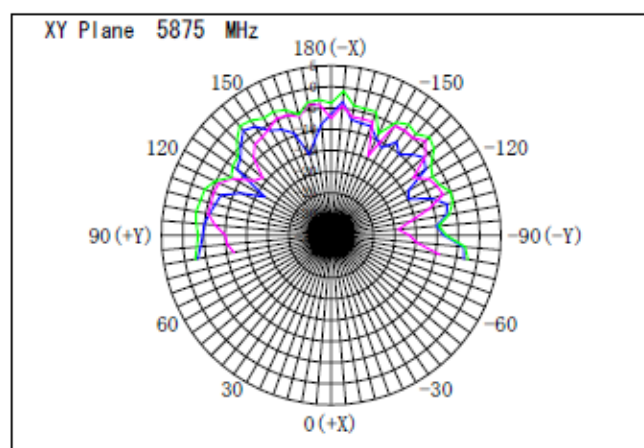
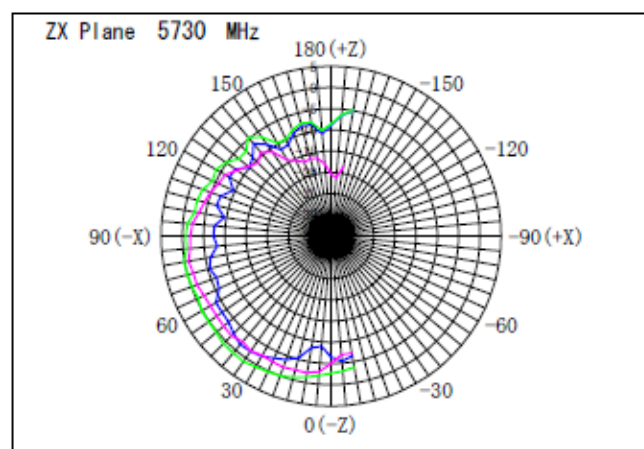
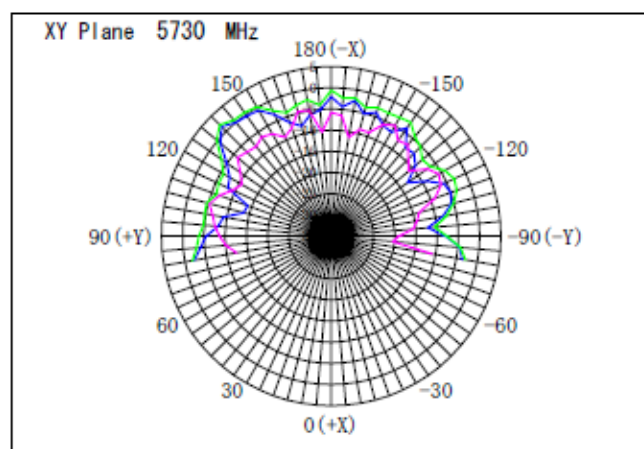
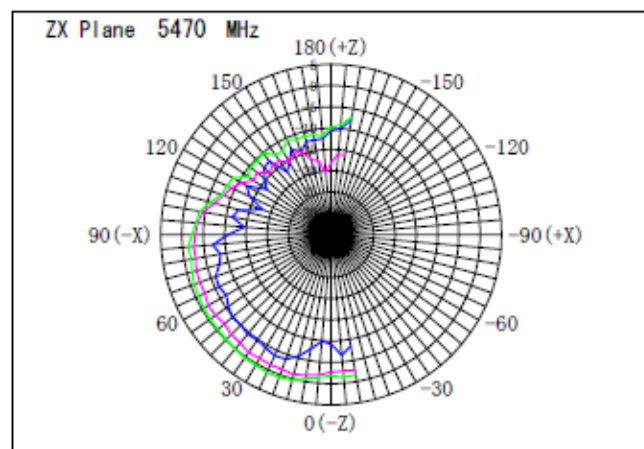
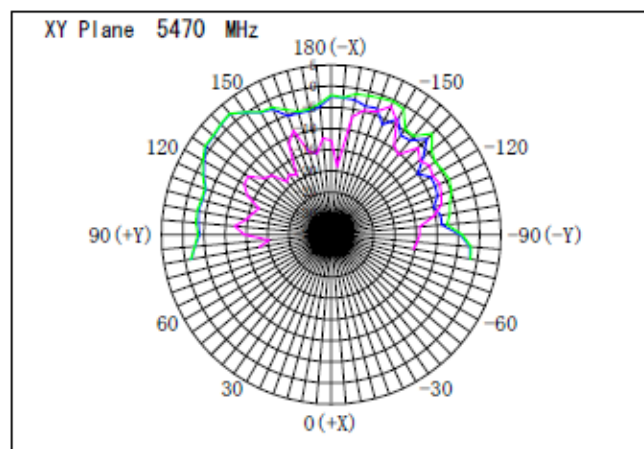
③5150~5350MHz $\pm 100\text{deg}$



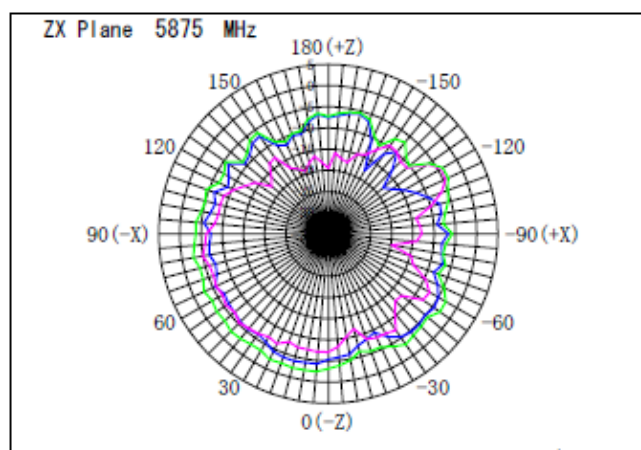
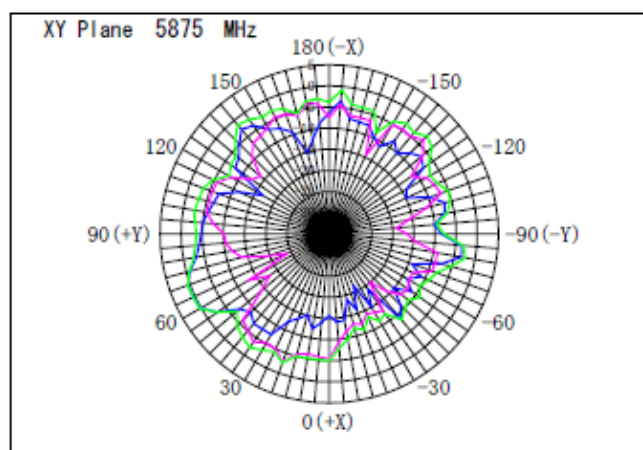
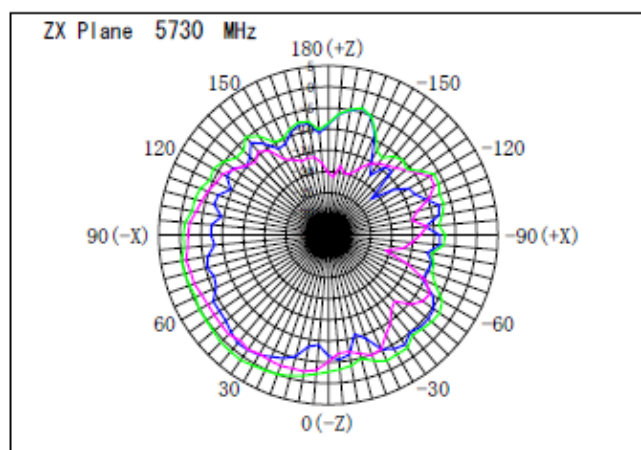
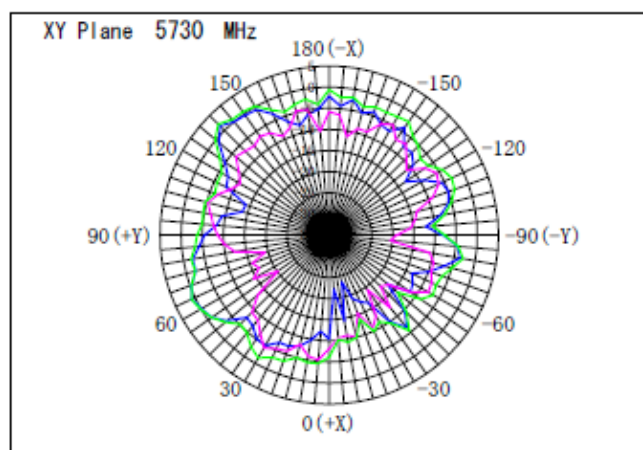
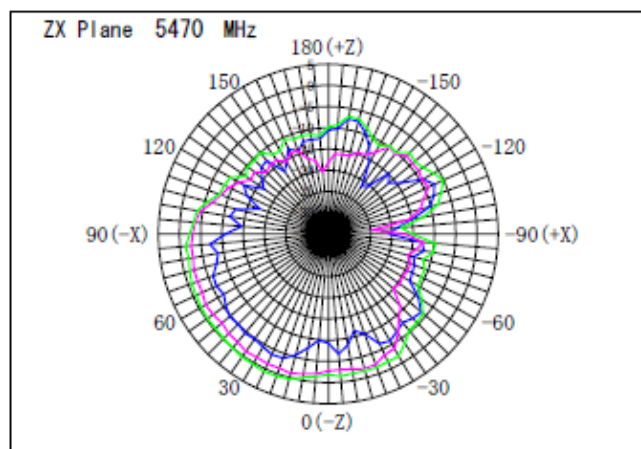
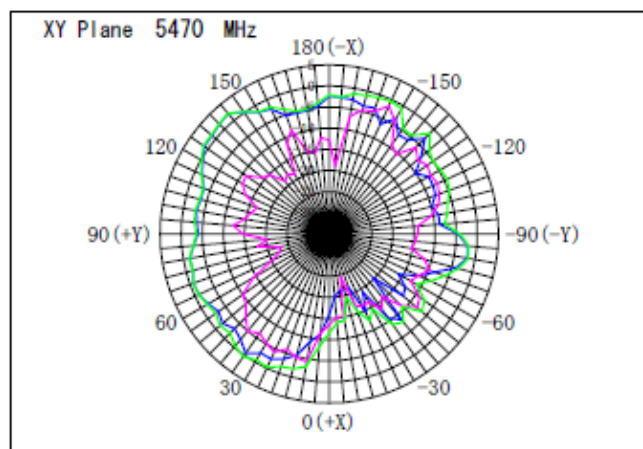
④5150~5350MHz 360deg



⑤5470~5875MHz $\pm 100\text{deg}$



⑥5470~5875MHz 360deg



4. Test Instrument:

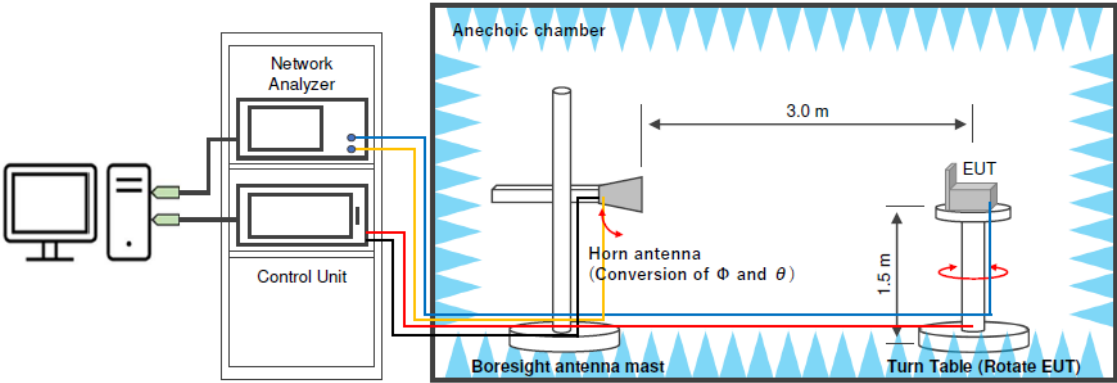
Device	Type/Model	Serial	Manufacturer	Calibration date
Anechoic chamber	-	602477-0	NISSEI ELECTRIC CO., LTD.	July 1,2024
Turn Table	-	602477-0	NISSEI ELECTRIC CO., LTD.	July 1,2024
Control Unit	-	602544-1	NISSEI ELECTRIC CO., LTD.	July 1,2024
Boresight antenna mast	-	602477-0	NISSEI ELECTRIC CO., LTD.	July 1,2024
Horn antenna	3115	9107-3687	ETS-Lindgren	July 1,2024
Horn antenna for Cal.	SH-800	SH800-0126	MVG	June 11,2022
Port Cable 0.1GHz~18.5GHz	MCCA011	-	NISSEI ELECTRIC CO., LTD.	July 1,2024
Ferrite Cable 2.5m - 0.1GHZ~18.5GHz	X10511A	-	NISSEI ELECTRIC CO., LTD.	July 1,2024
Network Analyzer	P5023B	MY61100018	Keysight	August 1,2022

5. Test date: July 25,2024

6. Test Person: Emi Yoshioka

7. Software for tests :Ansoft HFSS(For electromagnetic field simulation)

8. Measurement method: Refer to the diagram below



9. Photographs of Test Setup

Please refer to the separate file for Photographs.