



Antenna datasheet

시험보고서 (TEST REPORT)

수신자(Recipient) CEO of The THOU&TECH
(경유)

제 목 (Subject) 2.4 GHz PCB Antenna Performance Test(S220927-011)

시험 의뢰자 (Applicant)	기관(업)명 (Company)	THOU&TECH CO., KR	
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	의뢰일/신청번호 (Date of Application)	2022. 9. 22. / S220927-011	
시험 정보 (Products)	품명/모델명 (Name/Model)	2.4 GHz PCB Antenna / PCB Pattern	
	일련번호 (Serial Number)	-	
	제조사 (Manufacturer)	THOU&TECH CO., KR / Korea Republic of.	
시험일 (Date of Test)		2022. 9. 28.	
시험 규격/방법 (Test Standard/Method)		ANSI/IEEE Std 149-1979 IEEE Standard Test Procedures for Antennas / Peak Gain, Radiation Pattern(2D/3D)	
시험 결과 (Test Results)		Refer to Page 3	
시험 담당자 (Tested by)		Kim Jae Wook	검토자 (Reviewed by) Kim Kyeong Sik

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정보통신산업진흥원장

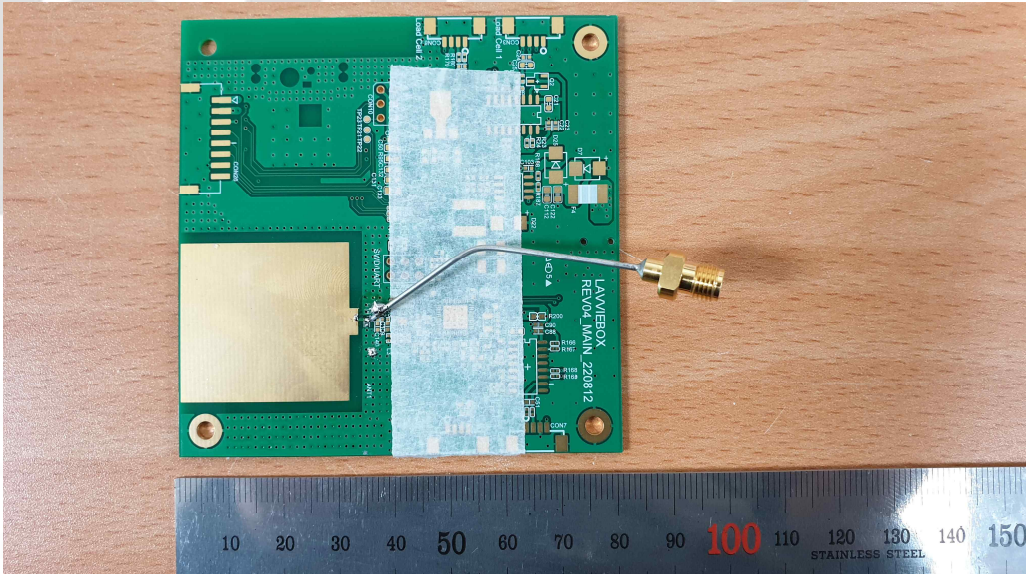


담당 김재욱 팀장 전결 10/23 김경식

협조자

시험 AIoT산업팀-5506 (2022.10.24.) 접수 ()
우 306-840 인천광역시 연수구 벤처로 82 / http://www.nipa.kr
전화 032-720-8125 /전송 032-720-8270 / jwkim0504@nipa.kr / 비공개(7)

1. DUT information

Items	Specifications	Remarks
Product name	2.4 GHz PCB Antenna	
Model name	PCB Pattern	
Serial number	-	
Operating Frequency	(2.4 ~ 2.5) GHz	
VSWR	2.0 Less Than	Nominal Value
Antenna Gain	-7.8 dBi	
Polarization	Linear	
Input Impedance	50 ohms	
Photograph		

※ The above DUT information was provided by the applicant of the test.

2. Test information

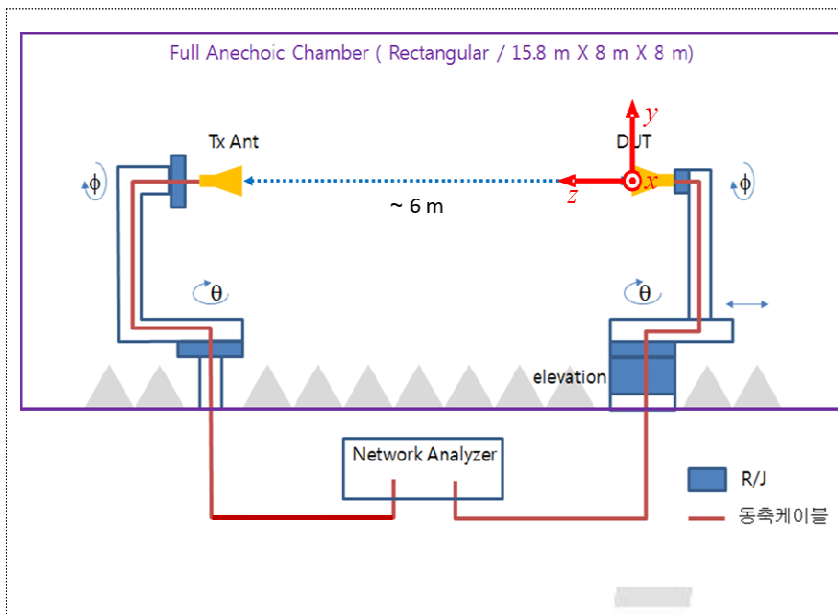
A. Equipments

No.	Equipments	Manufacturer	Model	S/N
1	ZNA Network Analyzer	ROHDE & SCHWARZ	ZNA26	101268
2	Quad-ridged Horn	MTG	QRH004060	-
3	Double Ridged Horn Antenna	Schwarzbeck Mess	BBHA 9120 LFA	253

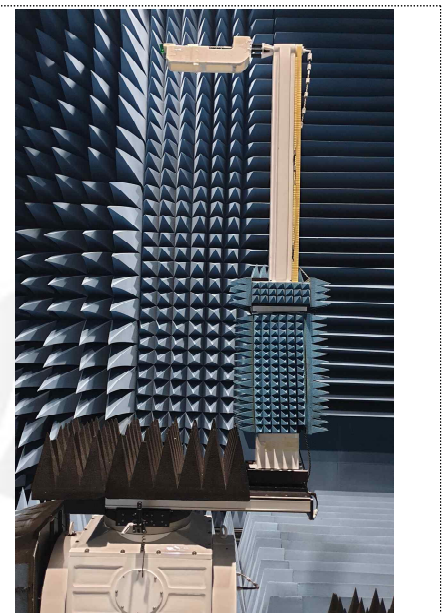
B. Environment

Date of test	Temperature	Humidity
2022. 9. 28.	$(21 \pm 1) ^\circ\text{C}$	$(43 \pm 3) \% \text{ R.H.}$

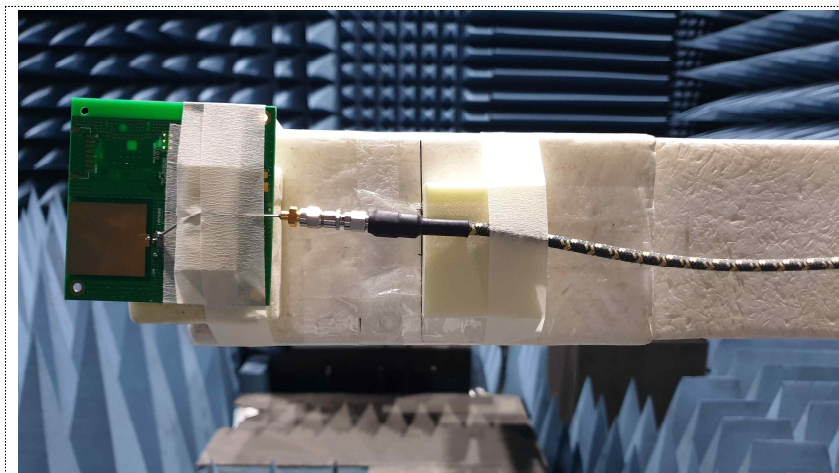
C. Configuration



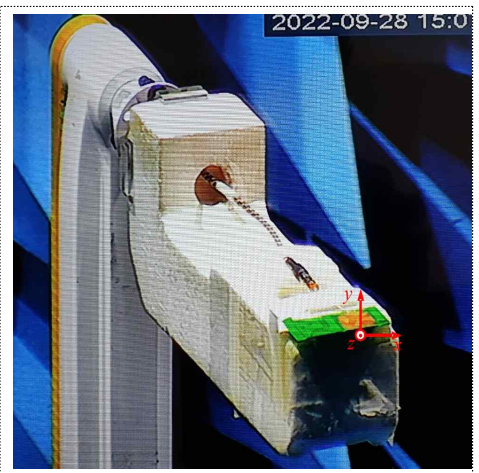
< Test configuration >



< Test layout >



< DUT layout >



< Orientation >

D. Test method: Gain-Transfer Measurements

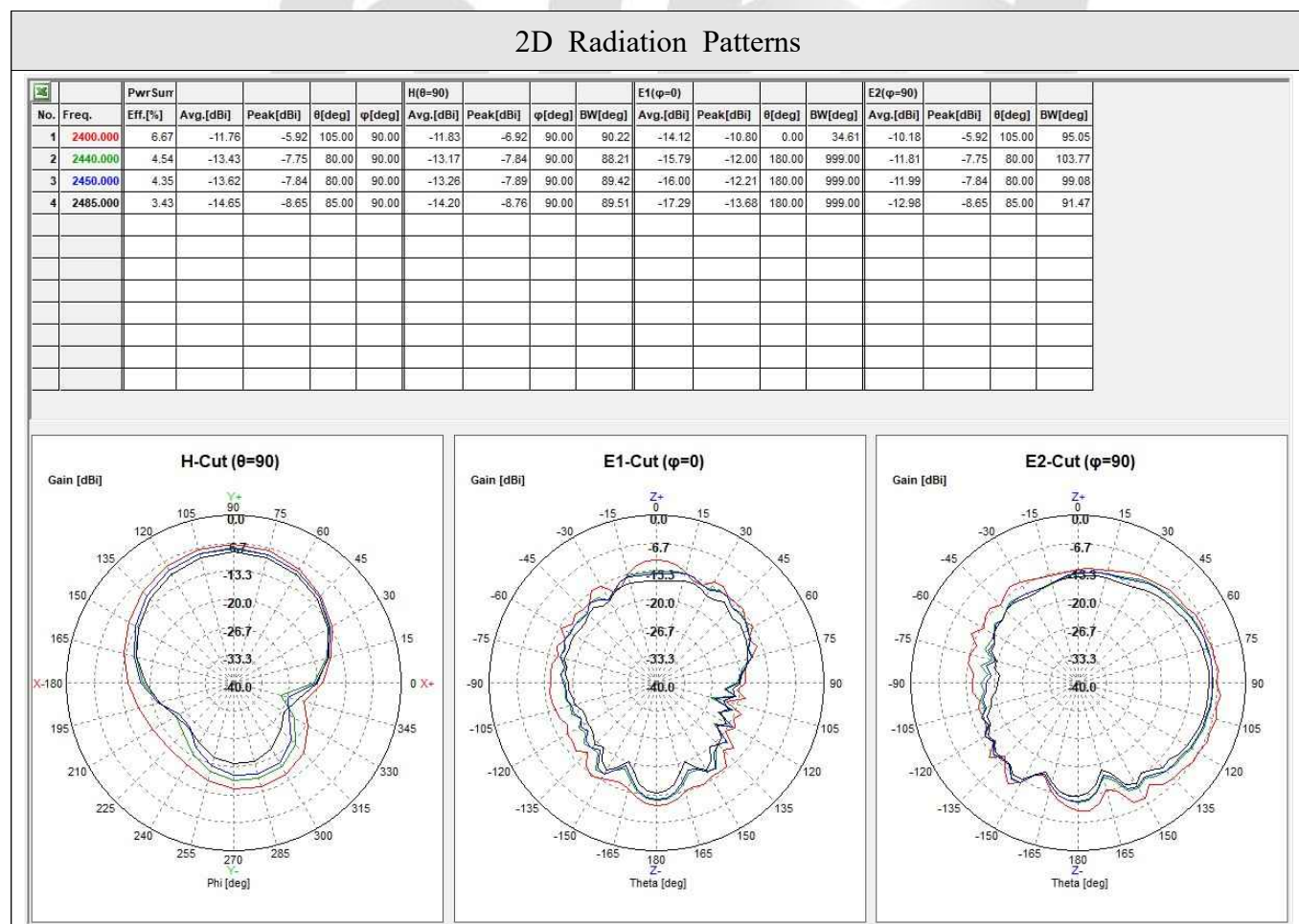
* Refer to the ANSI/IEEE Std 149-1979 IEEE Standard Test Procedures for Antennas

3. Test result

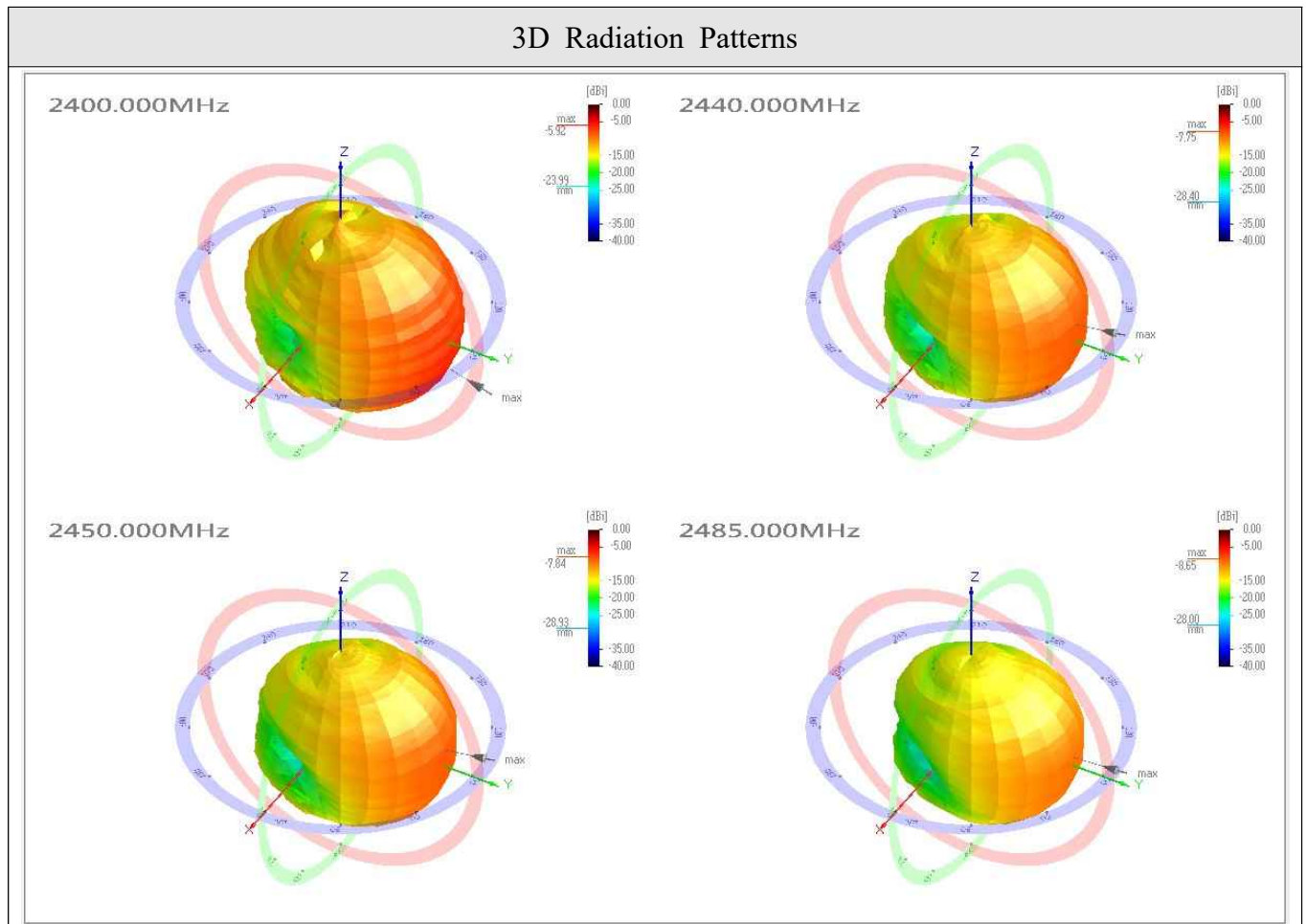
Frequency (GHz)	Peak Gain (dBi)
2.400	-5.9
2.440	-7.8
2.450	-7.8
2.485	-8.7

4. Test data

– 2D Radiation Patterns



- 3D Radiation Patterns



The end.

National IT Industry Promotion Agency