

Antenna Specifications

FCC ID: 2AEUP-7RCEAB

IC ID: 20271-7RCEAB

Model Number: 7RCEAB

Antenna Manufacturer's name	INPAQ TECHNOLOGY(SUZHOU) CO., LTD.
Antenna Manufacturer's Address	81 Antai 1st Roda, Xishan District, Wuxi City, Jiangsu Province, China
Antenna Pattern	Pifa

Antenna Part Number:

ANT No.	Operating Band	Antenna Pattern	Antenna P/N
WiFi	2.4G	PIFA	RFMTA121600NNAB001
LoRa	860~930MHz	PIFA	RFMTA401700NNUB001

Frequency range of operation:

- Lora/FSK: 902~928MHz
- Wi-Fi/BLE: 2400~2500MHz

Antenna type: PI-FA

Antenna gain:

- Lora: +1dBi
- Wi-Fi: +3.8dBi

Lab name: SG24

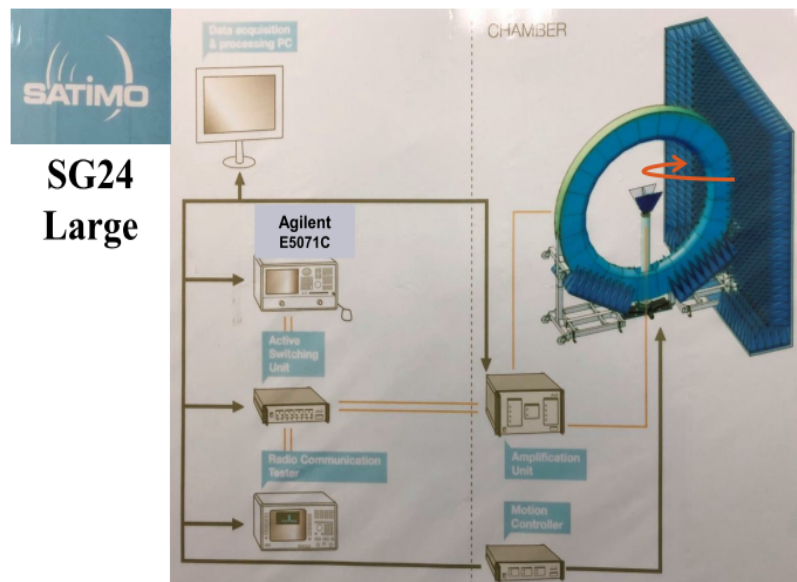
Lab address: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan

Measurement test method: Passive

Test equipment:

Test Equipment

- Network Analyzer : Rohde & Schwarz ZNB20
- 3D Antenna Chamber : SATIMO SG24 (Large)



Calibration due: 2026/03

OTA chamber:

Test engineer: Lang Huang

Equipment setup:



Software used:

Satimo_SPM

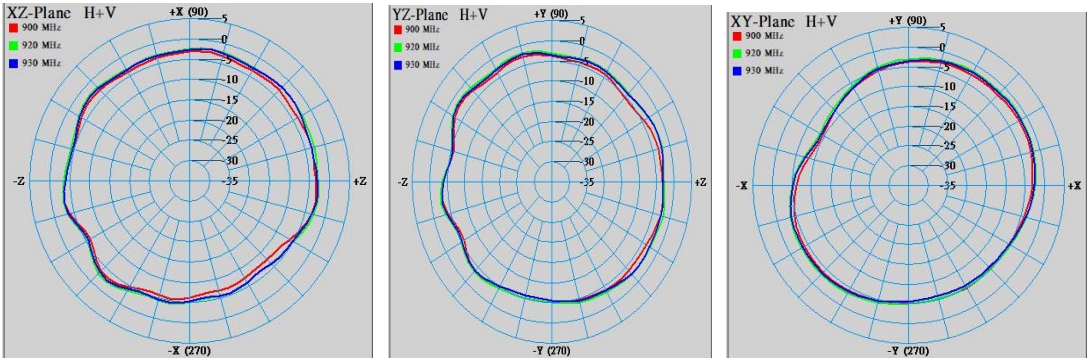
Test set-up:

1. Place the DUT at the center of the turntable,
2. Connecting the test cable to the DUT, and use the SPM software for passive measurement.
3. During the measured process, SATIMO SG24 will conduct radiation testing with the DUT through 23 probes by a vertical 360- degree; then the turntable will rotate a horizontal 180- degree.
4. After, a complete measurement of spherical 3D is completed.

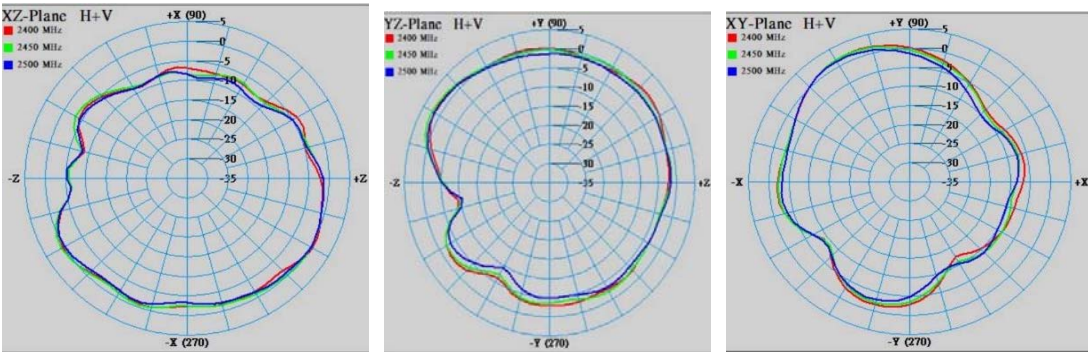
Antenna radiation pattern: Linear

2D Radiation Pattern :

Lora Antenna :



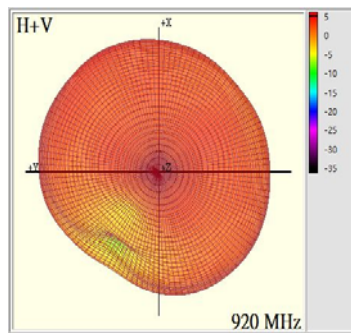
WIFI/BLE Antenna :



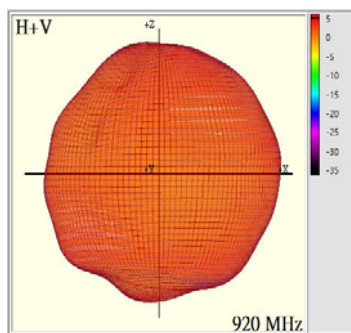
3D Radiation Pattern

Lora Antenna :

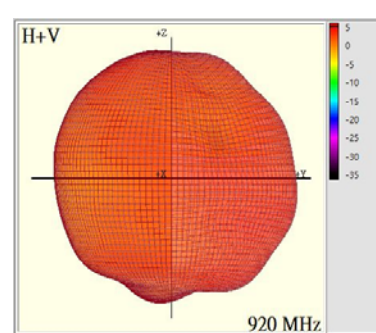
XY-Plane



XZ-Plane

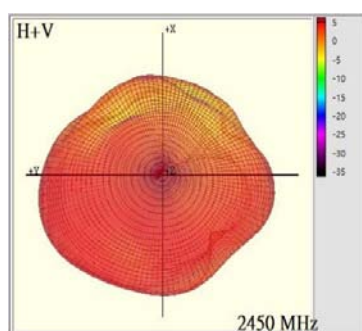


YZ-Plane

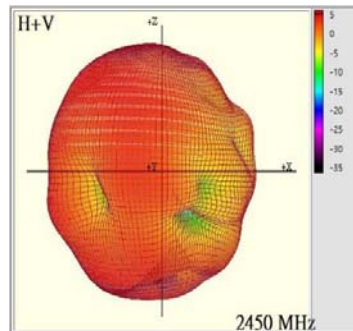


WIFI/BLE Antenna :

XY-Plane



XZ-Plane



YZ-Plane

