APM7210D Antenna Report

2023/12/26

Outline

- Measurement Information
- Antenna Peak Gain
- Antenna Pattern

Measurement Information

- Antenna Vendor : INPAQ TECHNOLOGY CO., LTD.
- Test date : 2023/12/19
- Test Engineer : Calvin
- Address of test site : 566-1, Ko-Shi Road, Yang-Mei, Tao-Yuan, 32668, Taiwan
- Instrument : Keysight Network Analyzer

Measurement Information

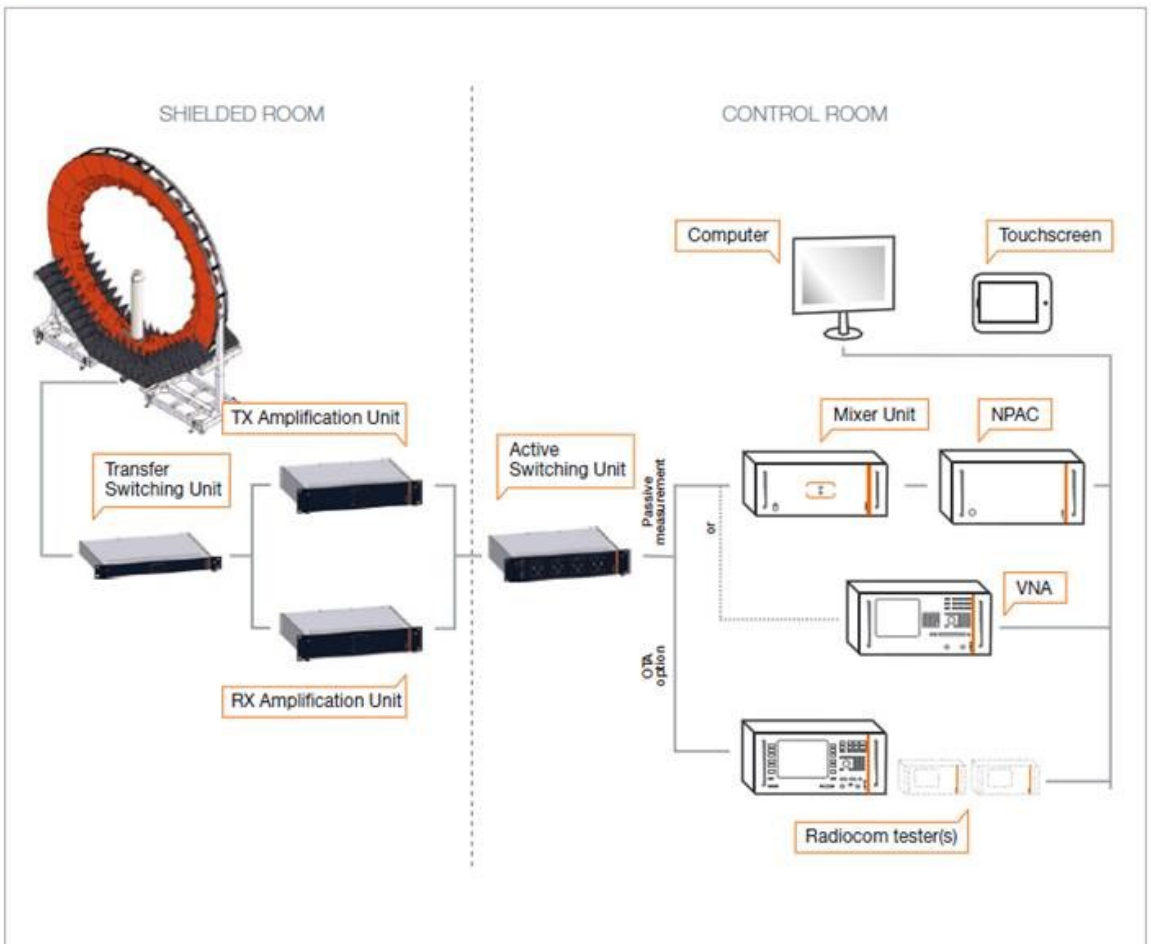
- Test instrument calibration information

Vender	Model No.	Calibrated Date	Calibrated Until
Satimo	SG24	2022/11/30	2024/1/29

Measurement Information

- Chamber : Satimo
- Test Program : SPM V15

System overview



Measurement Information

- Experimental Setup

  Operating instructions:

  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.

Measurement Information

- Antenna Solution Detail

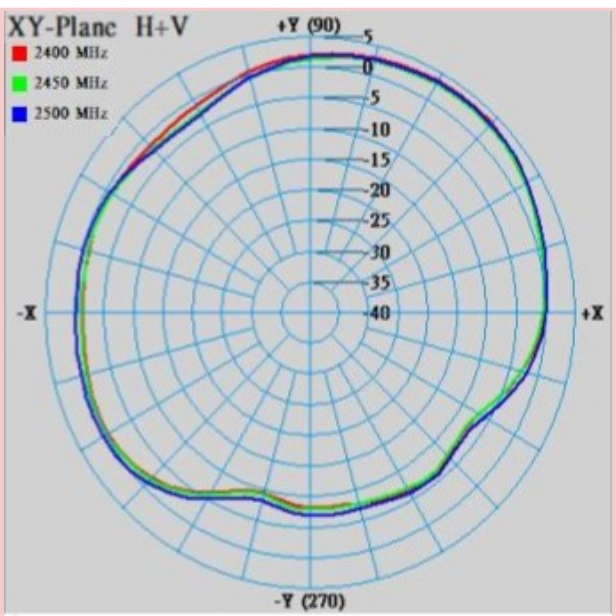
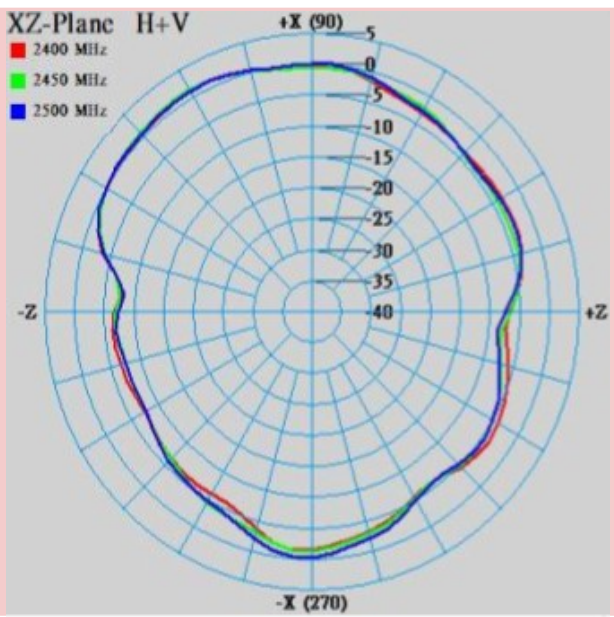
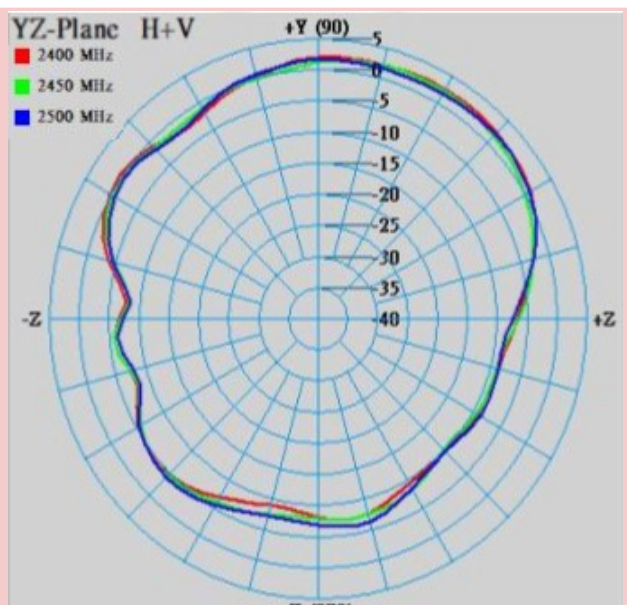
	Antenna Size (mm^2)	Type	Connector
ANT11	25*12.7	Dipole	IPEX Compatible ; Gold
ANT12	25*12.7	Dipole	IPEX Compatible ; Gold
ANT13	25*12.7	Dipole	IPEX Compatible ; Gold
ANT14	25*12.7	Dipole	IPEX Compatible ; Gold

Antenna Peak Gain

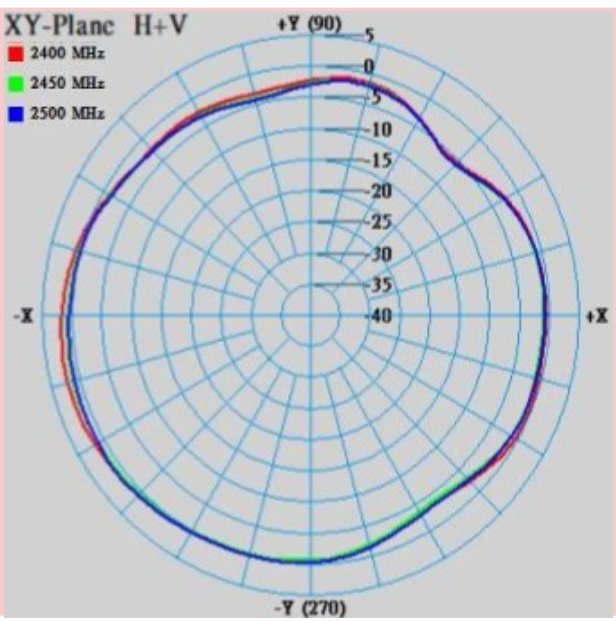
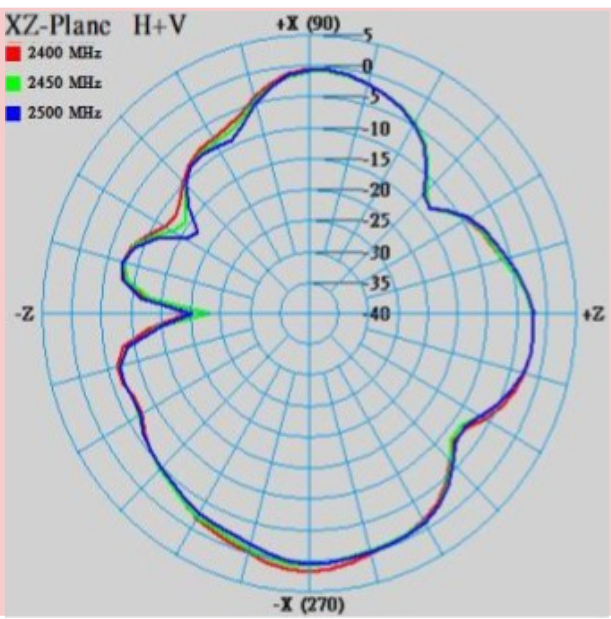
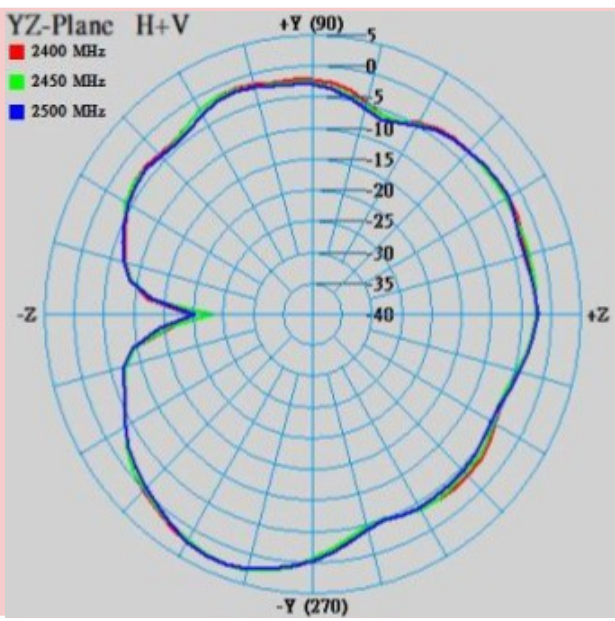
	ANT11	ANT12
Frequency(MHz)	Peak Gain(dBi)	Peak Gain(dBi)
2400	4.02	4.31
2450	3.91	3.79
2500	4.56	3.51

	ANT13	ANT14
Frequency(MHz)	Peak Gain(dBi)	Peak Gain(dBi)
5150	4.19	4.54
5500	4.45	3.95
5850	4.18	4.76

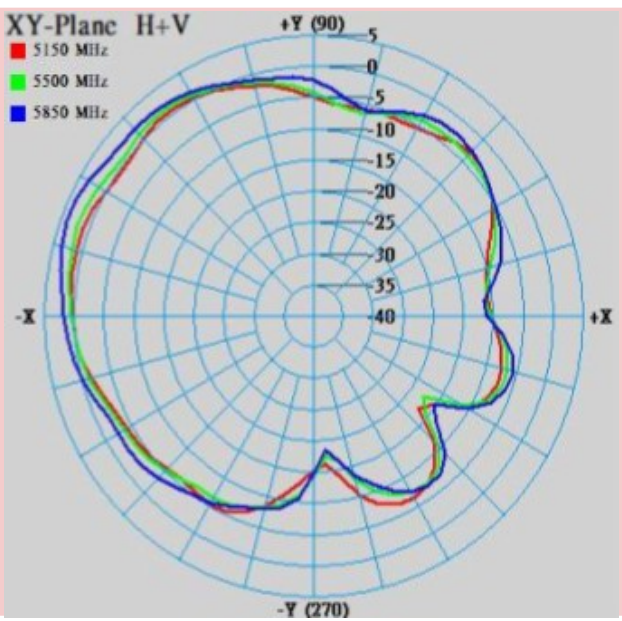
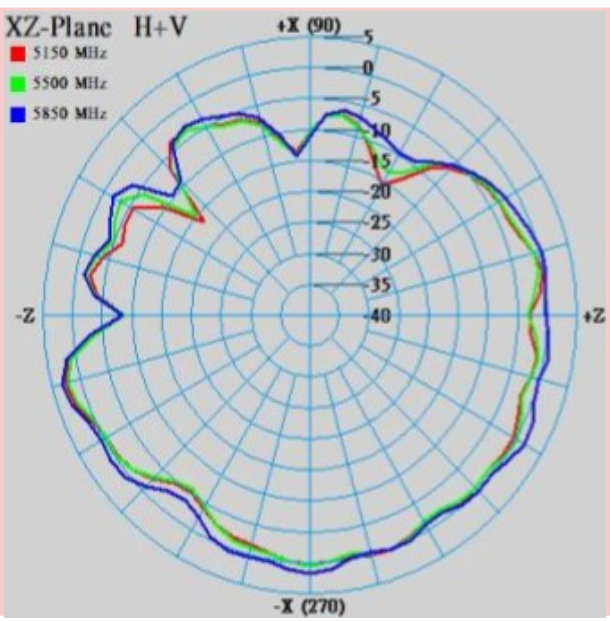
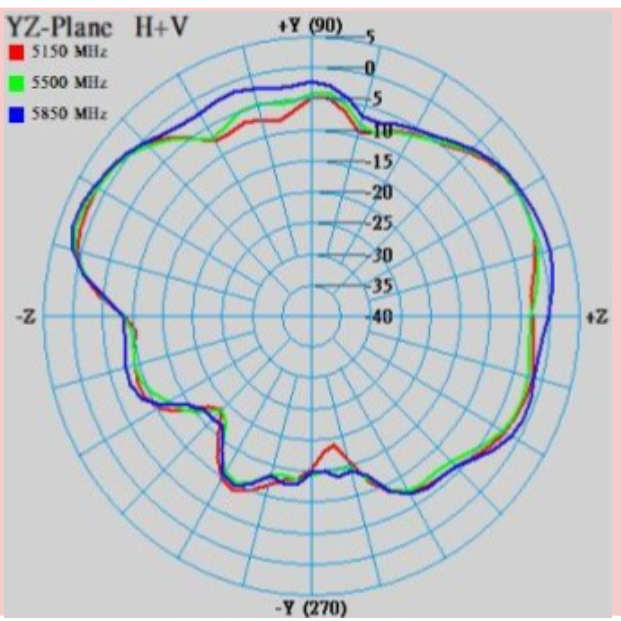
Antenna Pattern – ANT11 (2400MHz, 2450MHz, 2500MHz)

X-Y plane	X-Z plane	Y-Z plane
		

Antenna Pattern – ANT12 (2400MHz, 2450MHz, 2500MHz)

X-Y plane	X-Z plane	Y-Z plane
		

Antenna Pattern – ANT13 (5150MHz, 5500MHz, 5850MHz)

X-Y plane	X-Z plane	Y-Z plane
		

Antenna Pattern – ANT14 (5150MHz, 5500MHz, 5850MHz)

X-Y plane	X-Z plane	Y-Z plane