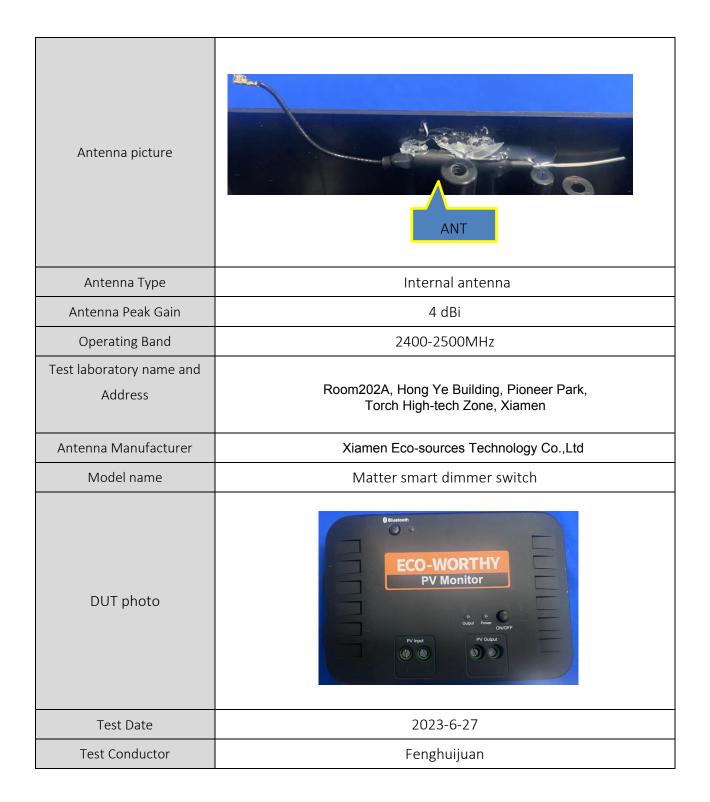
Antenna Specification



OTA measurement

Test System

The SY-16 OTA system is an anechoic chamber, which can measures antenna passive data such as antenna efficiency, antenna gain, and 2D&3D pattern. The coordinates and topology are shown as follow:

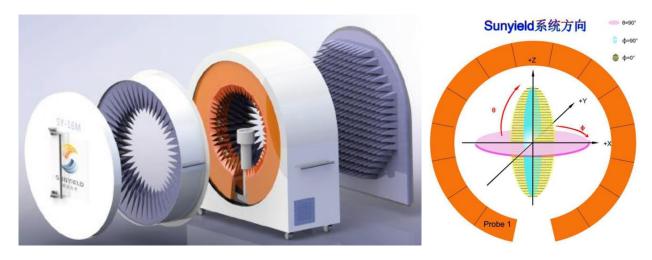


Figure 1 SY-16 OTA system

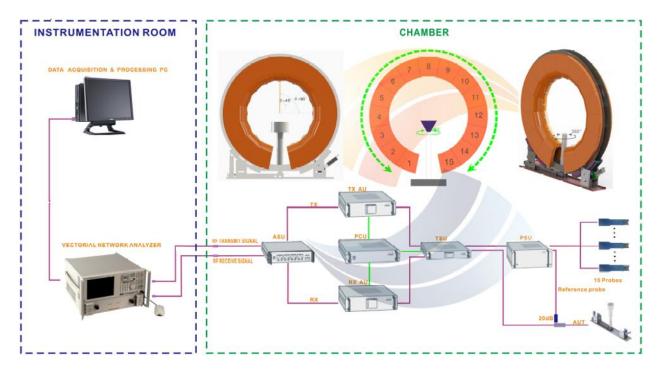


Figure 2 OTA measurement topology

Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Keysight	E5071C	MY46527808	2023/1/9	2024/1/8
Anechoic Chamber	Sunyield	SY-16	SI1727	2023/5/10	2024/5/9

Table 1 Equipment List

Test Method

Table 2 Test Method

Name	Antenna Performance
Parameter	Radiation Efficiency
Test Method	IEEE Standard Test Procedures for Antennas
Standard No.	ANSI/IEEE Std 149-2021
Test Software Being Used	PMS
Software Version	V2.8.5

Test Result

Efficiency and Gain

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	3.71	-2.16	60.86
2410	3.97	-1.98	63.42
2420	4.00	-2.02	62.78
2430	3.80	-2.12	61.31
2440	3.85	-2.02	62.86
2450	3.92	-2.07	62.02
2460	3.90	-2.09	61.84
2470	3.71	-2.13	61.22
2480	3.74	-2.13	61.23
2490	3.74	-2.09	61.83
2500	3.73	-2.13	61.27

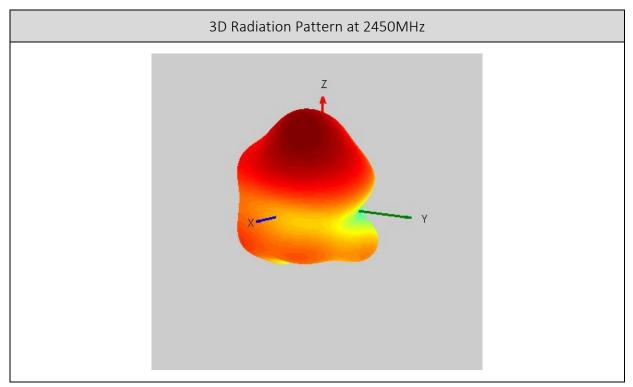
Table 3 Antenna Efficiency and Gain

Radiation Pattern

Product Coordinates

Table 4 Product coordinates

Table 5 3D radiation pattern



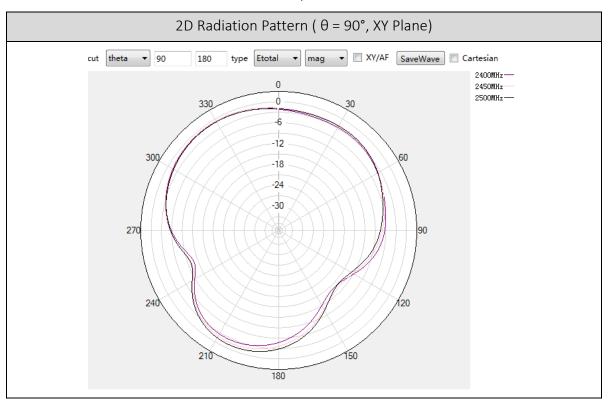
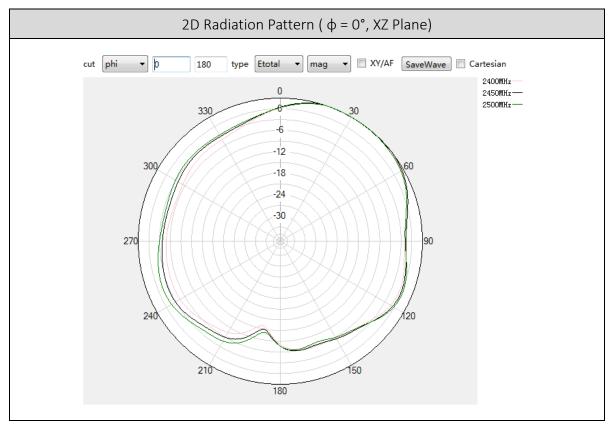


Table 6 Radiation pattern in XY Plane

Table 7 Radiation pattern in XZ Plane



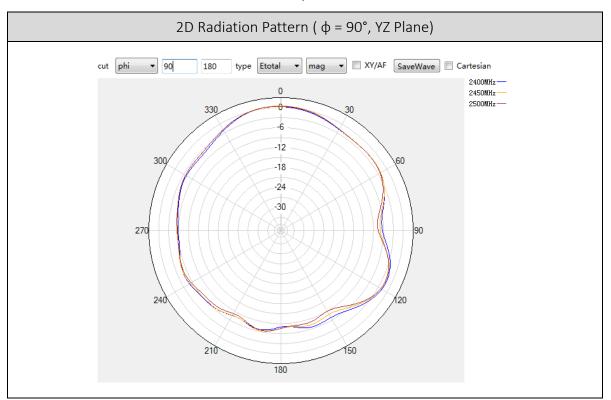


Table 8 Radiation pattern in YZ Plane