

Antenna Specification

Antenna picture	
Antenna Type	PCB antenna
Antenna Peak Gain	4 dBi
Operating Band	2400 MHz ~ 2500 MHz
Test laboratory name and Address	5th Floor, Building 1, Lianchuang Science and Technology Park, BulanRoad, Longgang District, Shenzhen City, Guangdong Province China
Antenna Manufacturer	Shenzhen Lianlijia Technology Co.,Ltd
Model name	Action camera
DUT photo	
Test Date	2023-6-27
Test Conductor	Fenghuijuan

OTA measurement

Test System

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

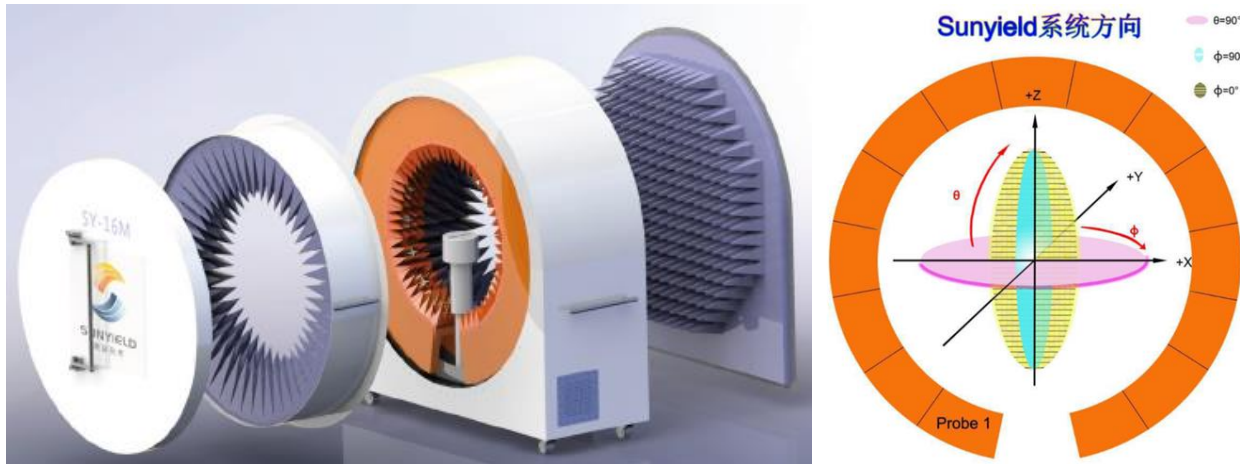


Figure 1 SY-16 OTA system

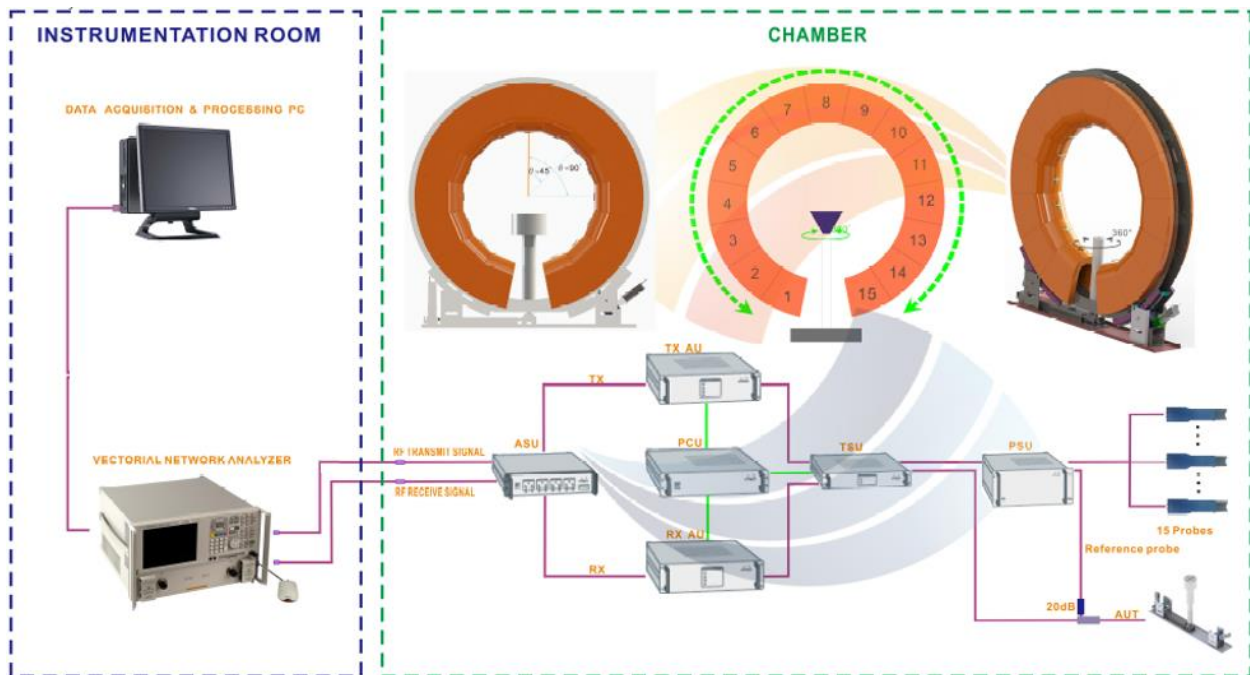


Figure 2 OTA measurement topology

Equipment List

Table 1 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

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

Table 3 Antenna 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

Radiation Pattern

Table 4 Product coordinates

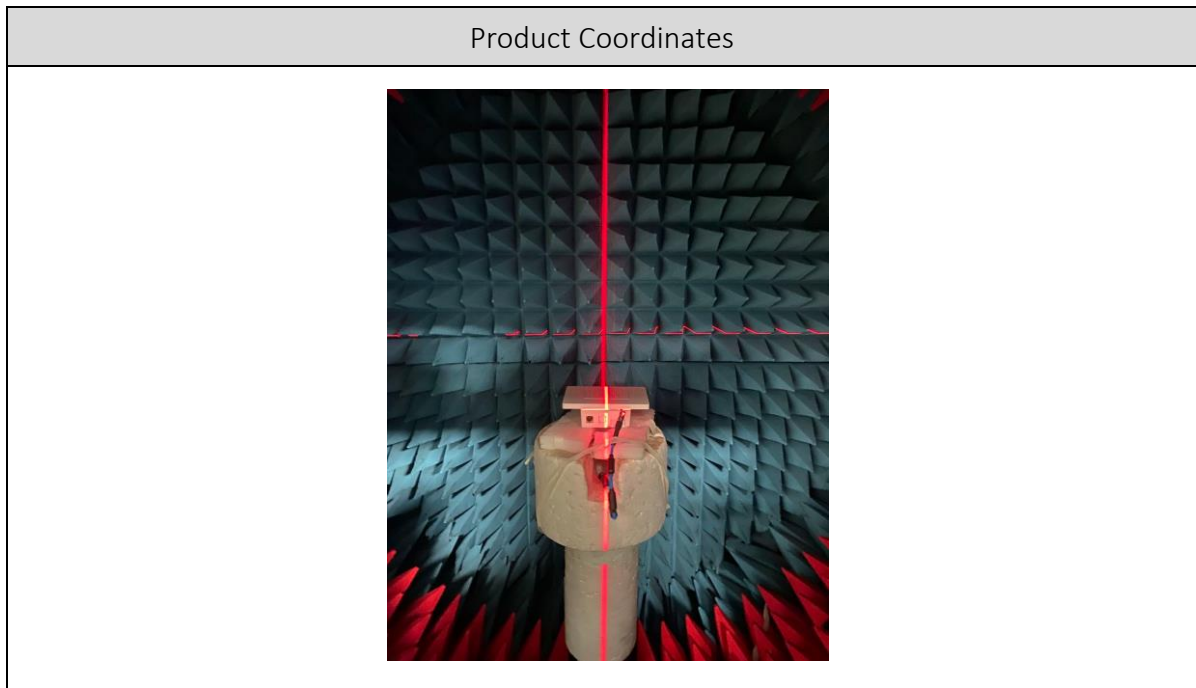


Table 5 3D radiation pattern

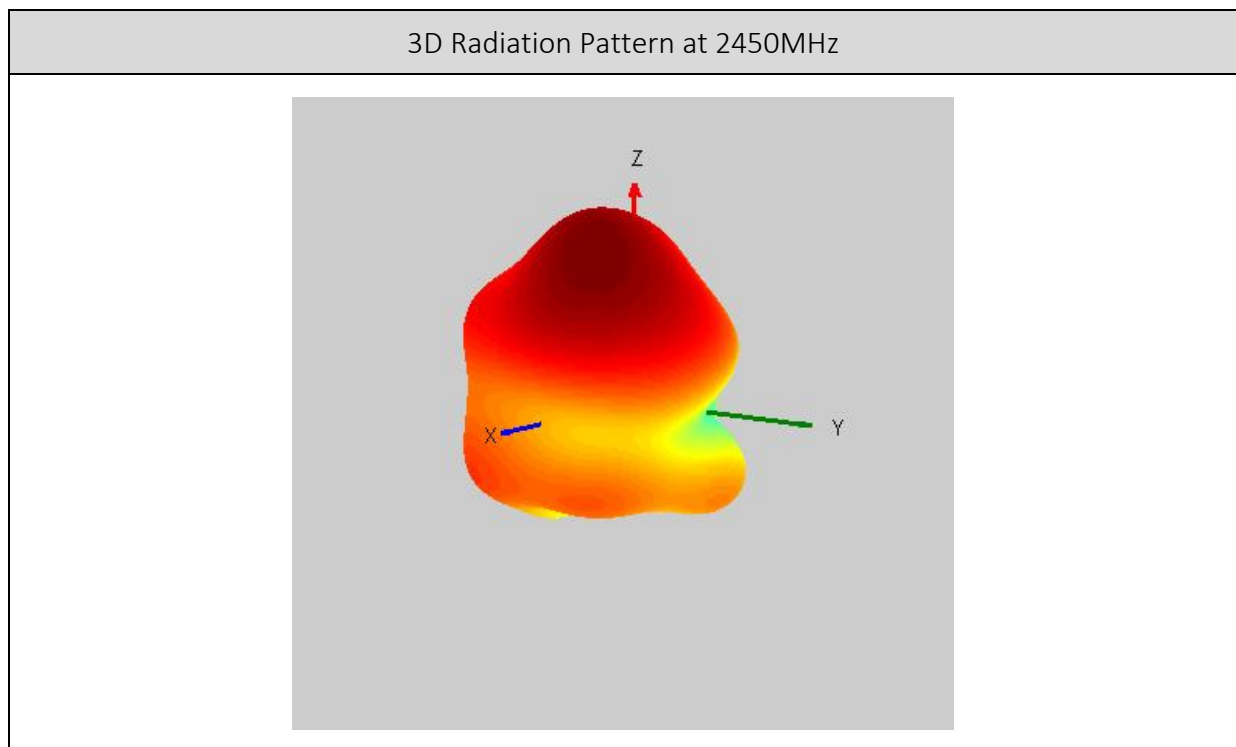


Table 6 Radiation pattern in XY Plane

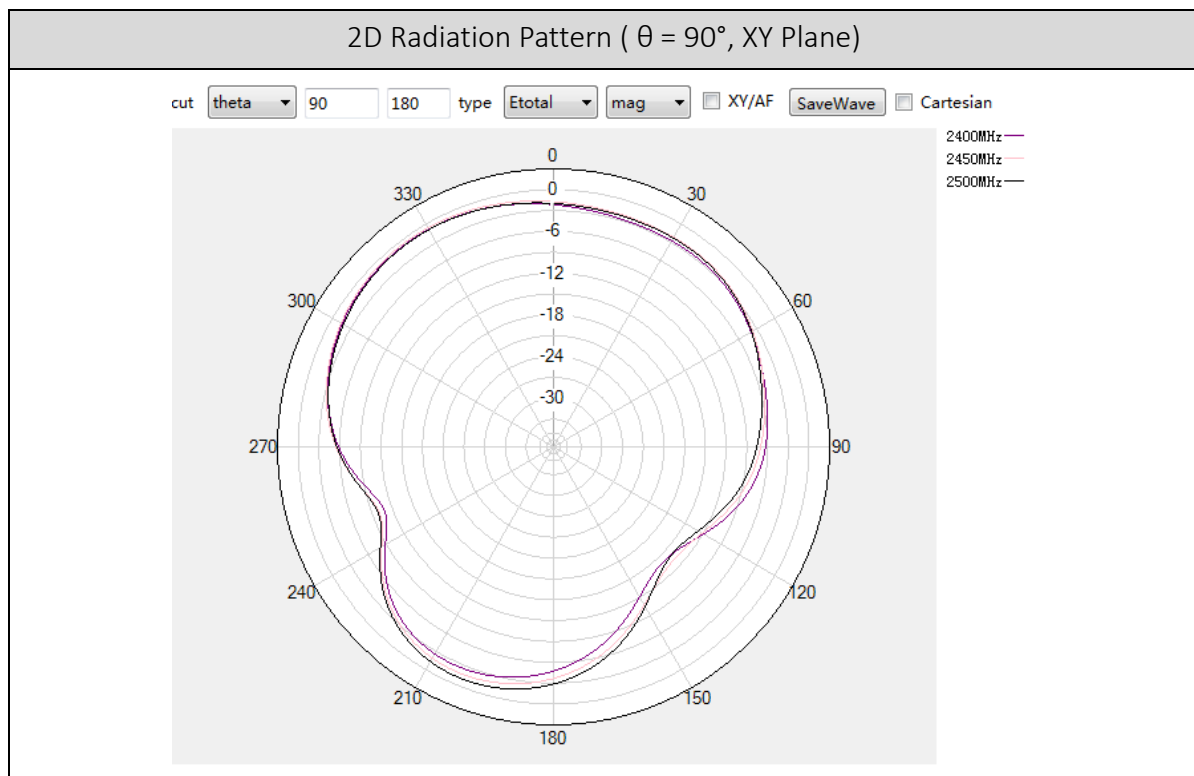


Table 7 Radiation pattern in XZ Plane

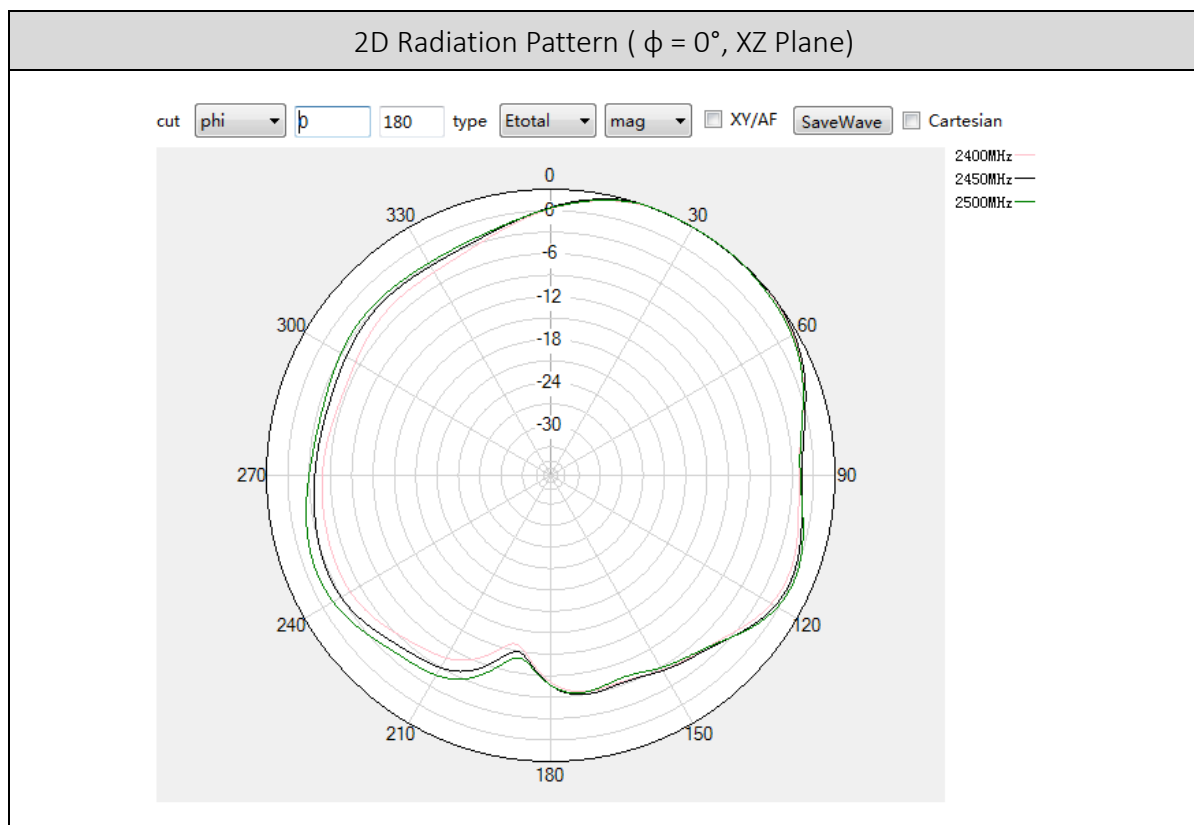


Table 8 Radiation pattern in YZ Plane

