<p style="text-align:center"><u>Antenna Report</u></p>

Frequency range:

BT Antenna:
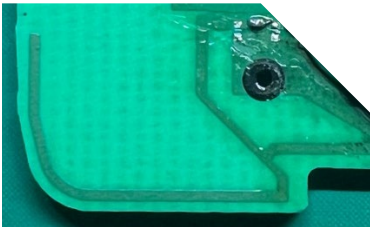
- BLE: 2.4 to 2.48 GHz

Antenna Types:

BLE antenna: PCB IFA antenna

Antenna Gain:

M hz	Peak Gain
2400	2.69
2410	3.18
2420	3.55
2430	3.27
2440	3.21
2450	3.45
2460	3.48
2470	3.54
2480	3.63

Antenna Structure:

BLE antenna

Measurement Test Method:

Solder pigtails on feeding point of antenna and measure passive antenna performance by VNA and OTA chamber system.

Test equipment: Agilent E5071C

Test chamber: GOERTEK

Address: No. 268 Dongfang Road, Kuiwen District, Weifang City, Shandong Province, China

Chamber info: ETS_AMS8500

Calibration info: Agilent E5071C_2023/01/05
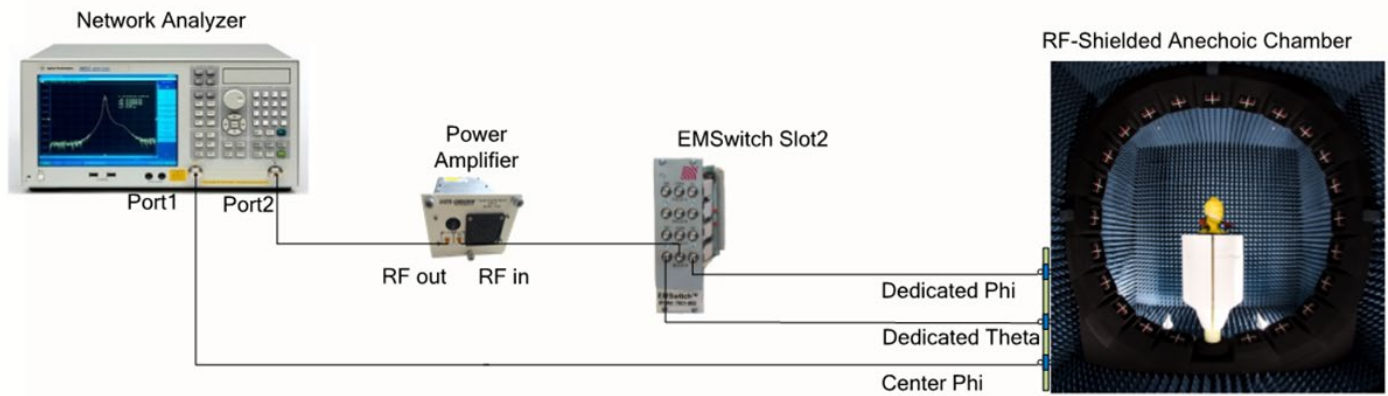
Test engineer: Liuxing
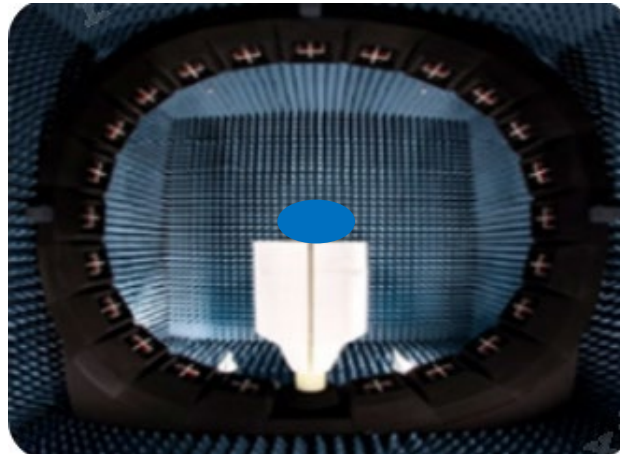
Software for Measurement:

EMQuest

Test Set-up:

1. Set up the device on the turn table and connect the pigtails to the RF cable.
2. Measure the 3D passive performance according to the following coordinate axis.

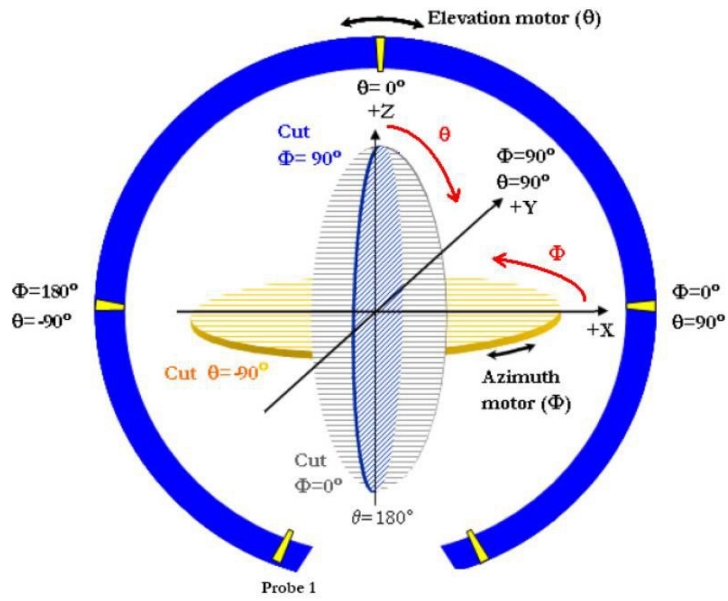Turntable – Phi: 0-165°, step size: 15°, clockwise rotation

Please see separate test set-up exhibit for setup photographs

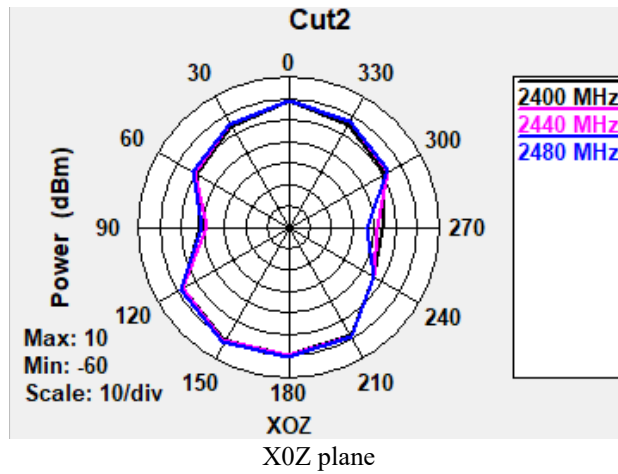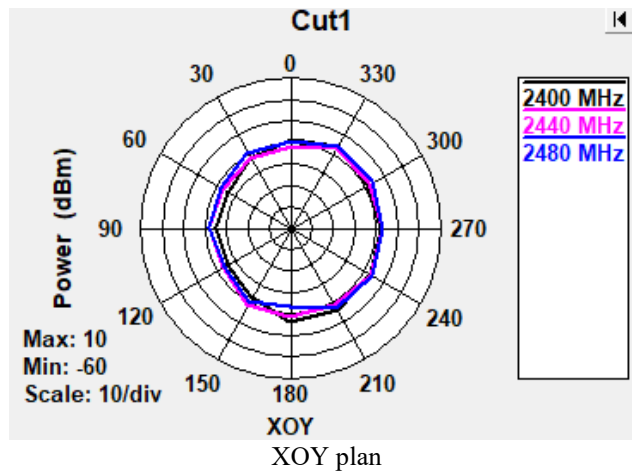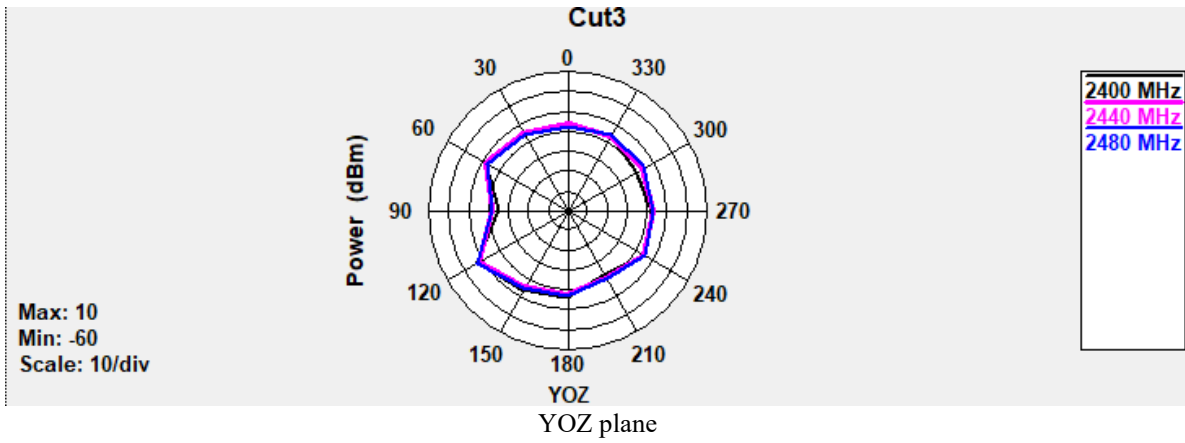
The position of the product in the chamber

Antenna Radiated Pattern Orientation:

BLE Antenna

2D

XOY plan

X0Z plane

YOZ plane

3D（2440MHz）

XOY

XOZ

YOZ