



FS-S124F

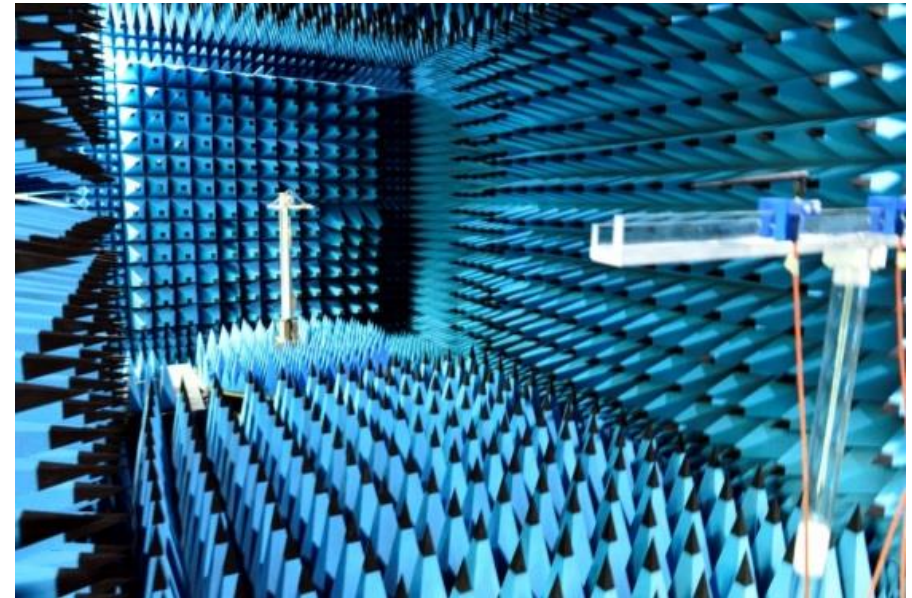
Antenna Test Report

Senao Networks, Inc.

Customer	Fortinet
Project	FS-S124F
Project Description	BLE antenna *1
Date	2023/08/31
Prepared by	Kenny
Checked	Tony
Report Version	A01

3D Anechoic Chamber - BWANT

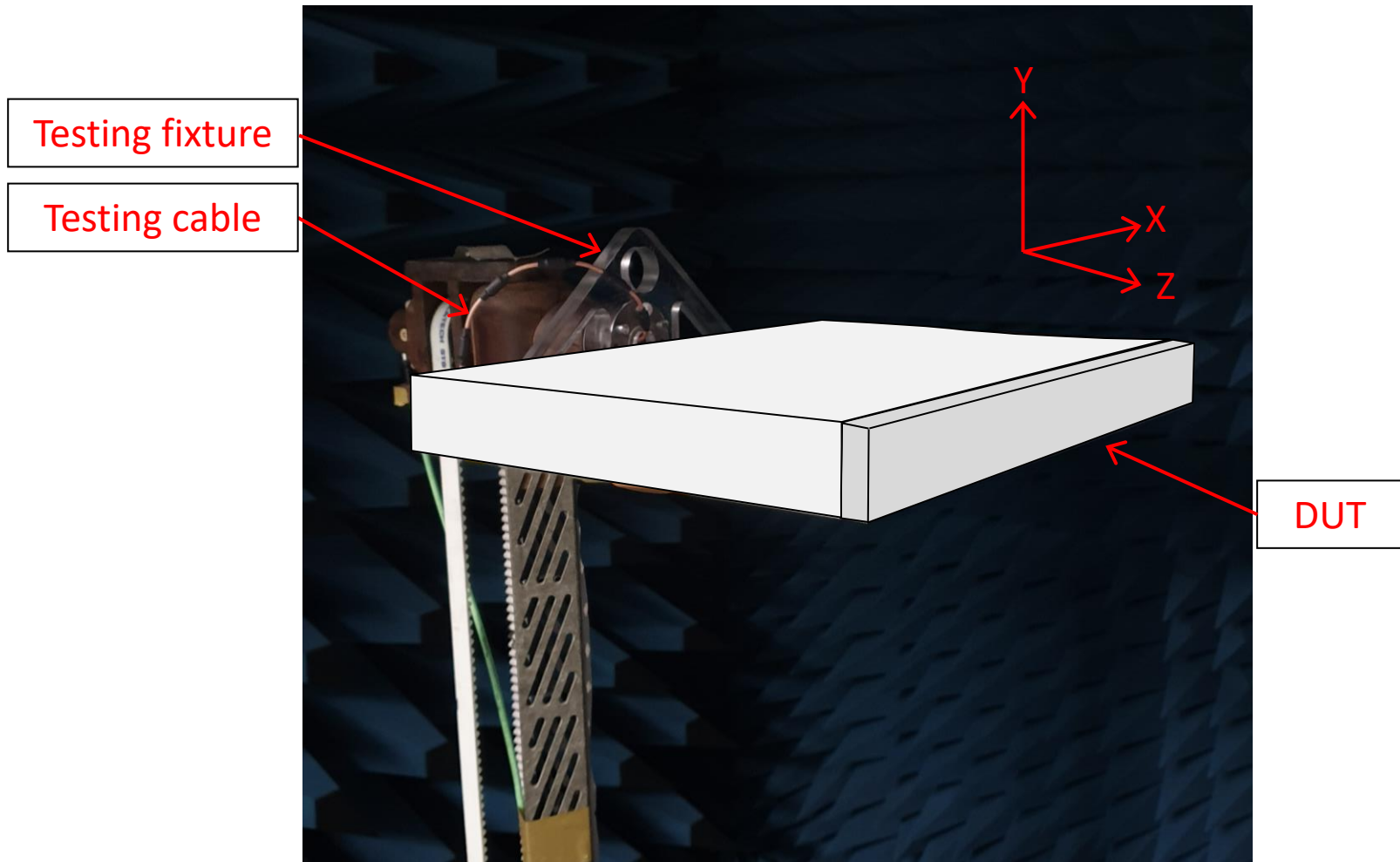
- Size: 7.32M(L)x3.66M(W)x3.66M(H)
- Testing range from 400MHz to 7GHz
- Chamber Isolation : 10KHz to 10GHz >100dB (NSA 94-106)
- Calibration antenna : BWANT SD650 /SD740 /SD900 /SD1150 /SD1575 /SD1800 /SD2140 /SD2450 /SD3200 /SD3600 /SD4550 /SD5400 /HA-0508
- Calibration date: 2022/10/27
- Test software : BWANT 3D Passive

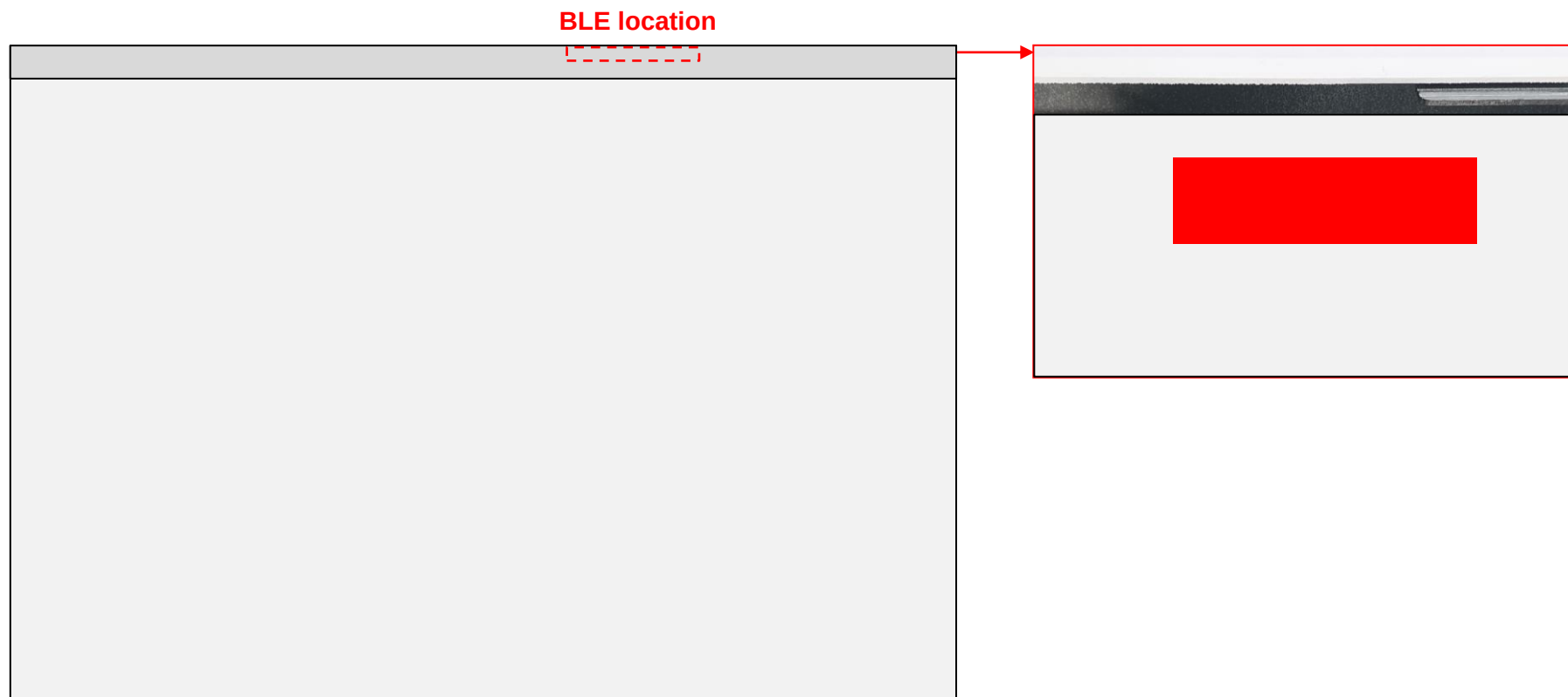


3D Anechoic Chamber

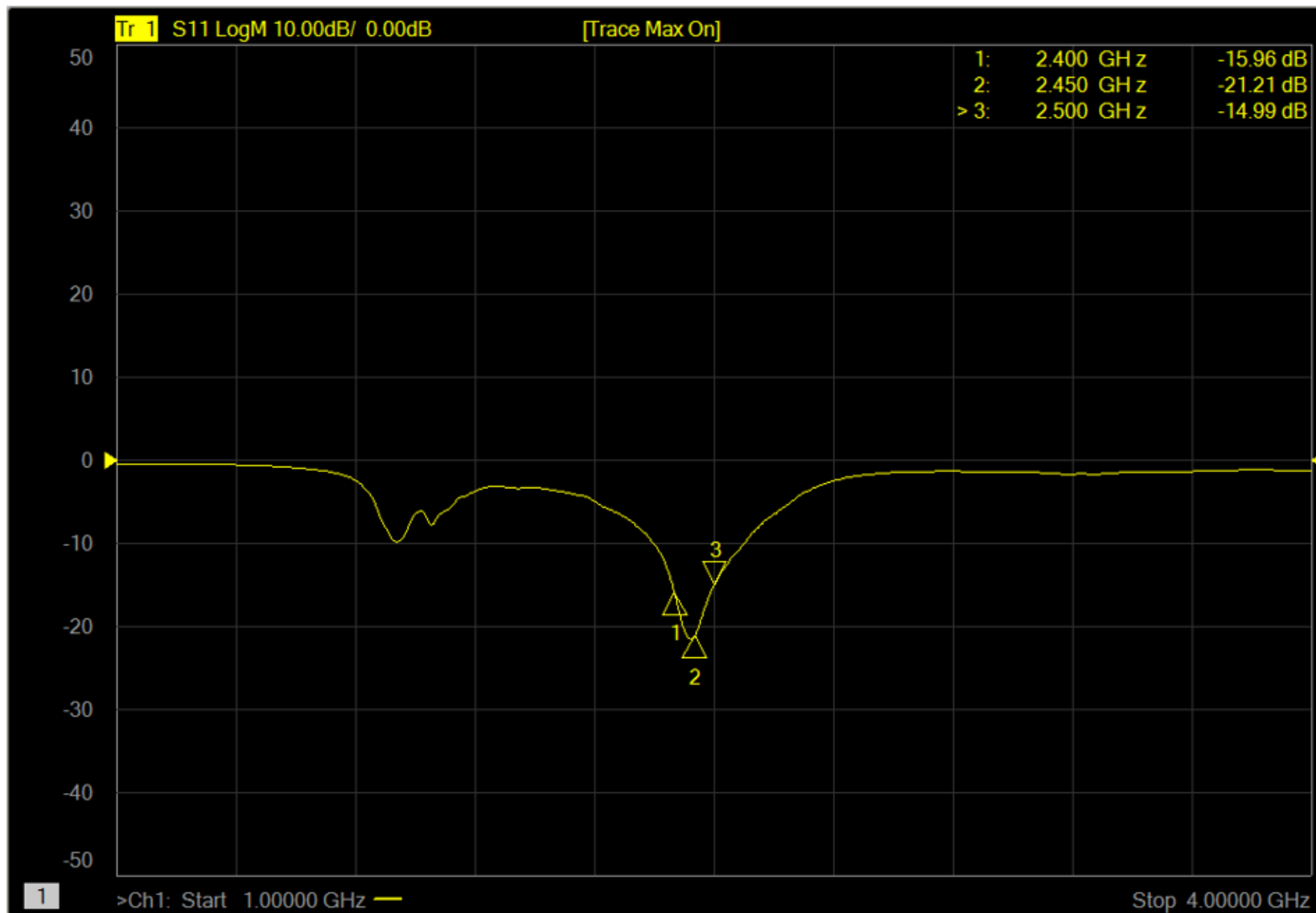
Antenna Testing Set Up

- The DUT is set up on the test fixture and the antenna is connected to the test cable to measure the antenna performance.

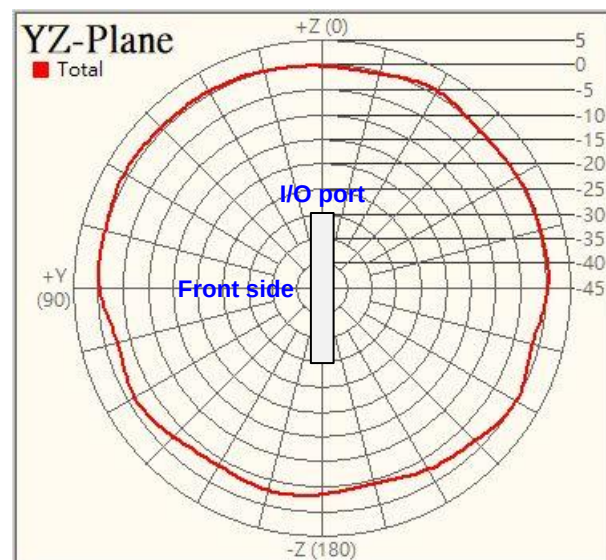
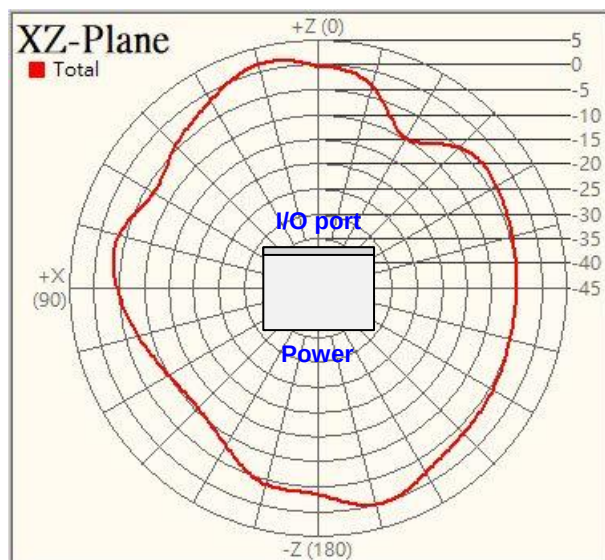
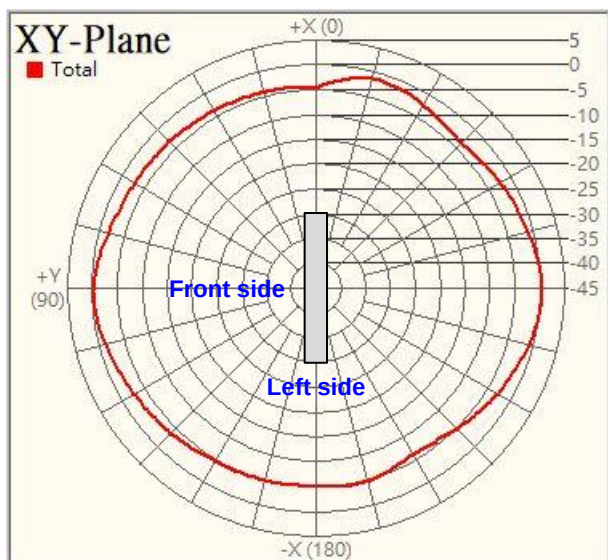
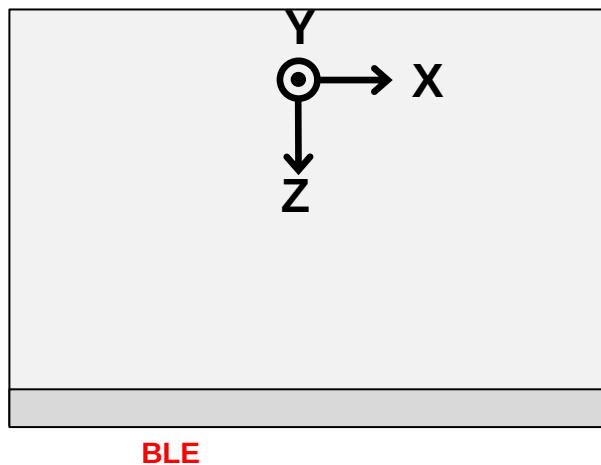
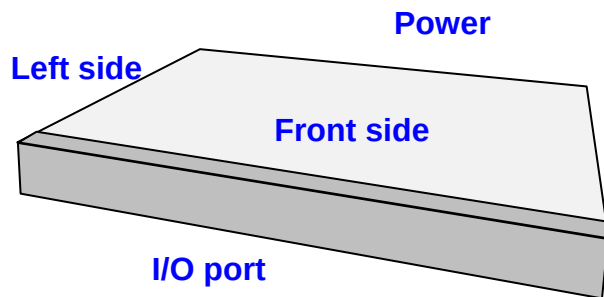




Ant No.	Brand	Antenna P/N	Operating Band	Ant Type	Material	Feeding	Dimension
BLE	Senao	7102A0676000	2400MHz ~ 2500 MHz	PIFA	PCB	Cable	50*15*1 mm ³



2D Radiation Pattern – BLE @ 2.45GHz



Antenna Efficiency and Gain

Antenna Performance		
Freq. (MHz)	BLE	
	Efficiency (%)	Peak Gain (dBi)
2400	47.1	1.26
2450	51.6	1.74
2500	46.8	1.59