

ANTENNA INFORMATION

Antenna manufacturer	Changshu HongBo Telecommunication Technology Co., Ltd.
Address	No. 8, Liuzhou Road, Lushan Industrial Park, Xinxing Development Zone, Changshu City, Jiangsu Province, China
Antenna Part number	Main/ Aux: 260-25106 (5GHz+6GHz)
Antenna type	Monopole

Test Location	HongBo Wireless Communication Technology Co., Ltd.
Address	4F., No.143, SinHu 1st Rd., Neihu Dist, Taipei City 11494, Taiwan
Test Personnel	Louise Tsai
Testing date	2024/10/16

Antenna Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main/ Aux	3.11	4.88	4.91	4.90	4.90	4.87	4.73	4.29	4.58	4.09

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main/ Aux	SY113L/50	350	1.13	50	Ipex(MHF)

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1. Document Revision History

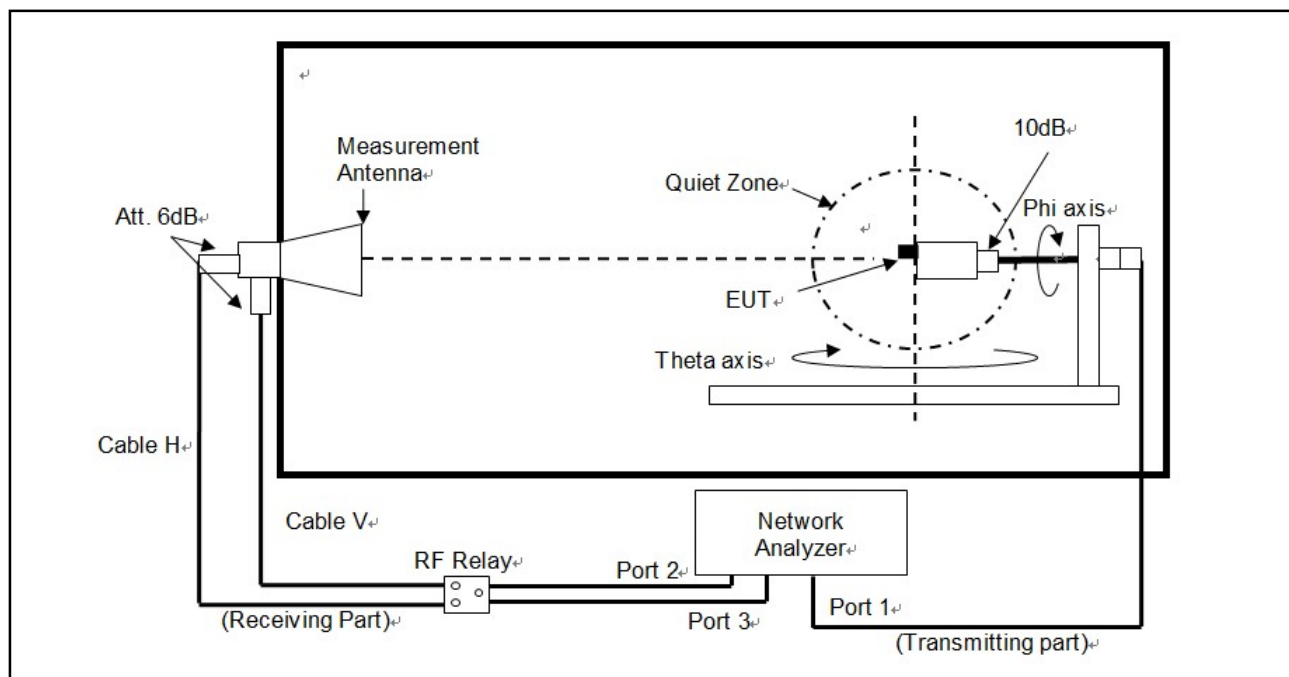
Revision #	Revision Details	Issued Date
Rev.00	First version	2024/10/16

2. Test & System Description

2.1 Measurement Method and System

Measurement was performed with a Full Anechoic Chamber

2.2 Test setup



2.3 Equipment list

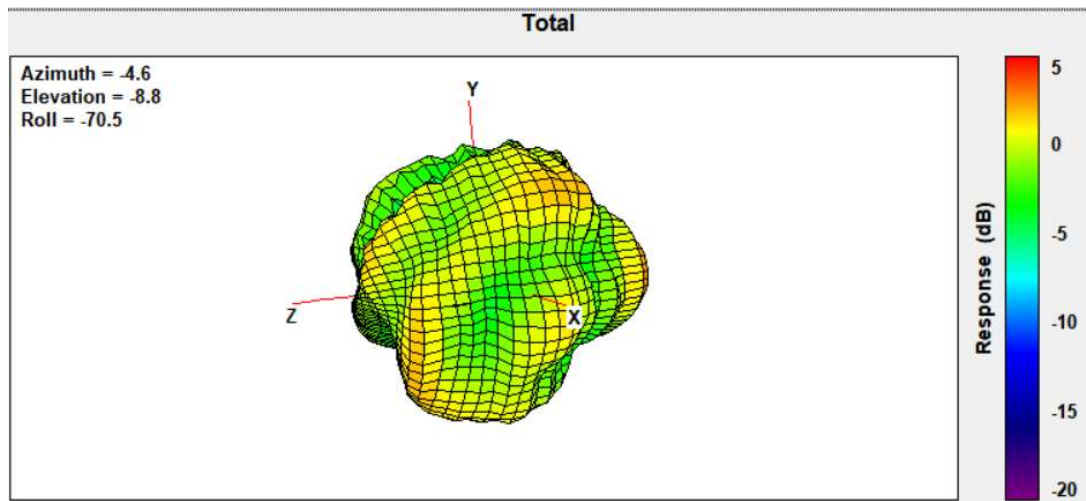
Name	Manufacture	Type/Model	Serial Number	Cal. Date	Cal. Due Date
ENA Series Network Analyze	Keysight	E5071C	MY46108594	2023/8/3	2025/8/3
RF Switch	Keysight	3499A	MY4200955	NCR	NCR
Multi-Axis Positioner Controller	ETS-Lindgren	2090	N/A	NCR	NCR
Medium-Duty Positioner	ETS-Lindgren	2015	N/A	NCR	NCR
Measurement Horn Antenna	EMCO	Aug-64	86722	NCR	NCR

3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

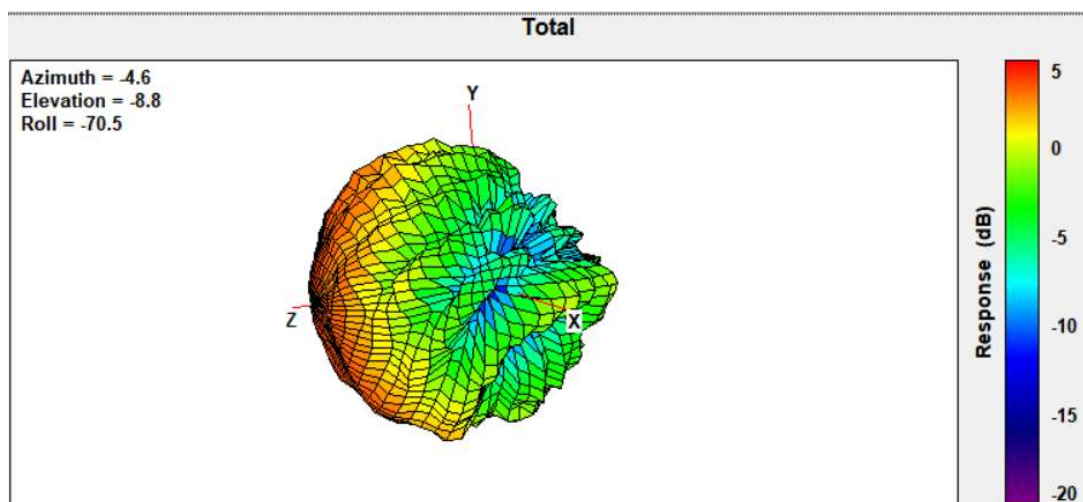
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	3.11



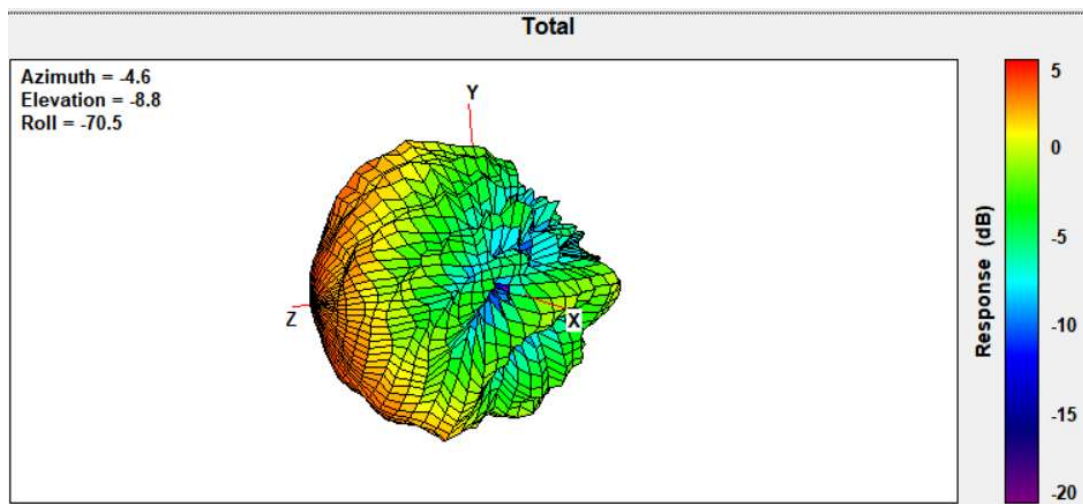
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	4.88



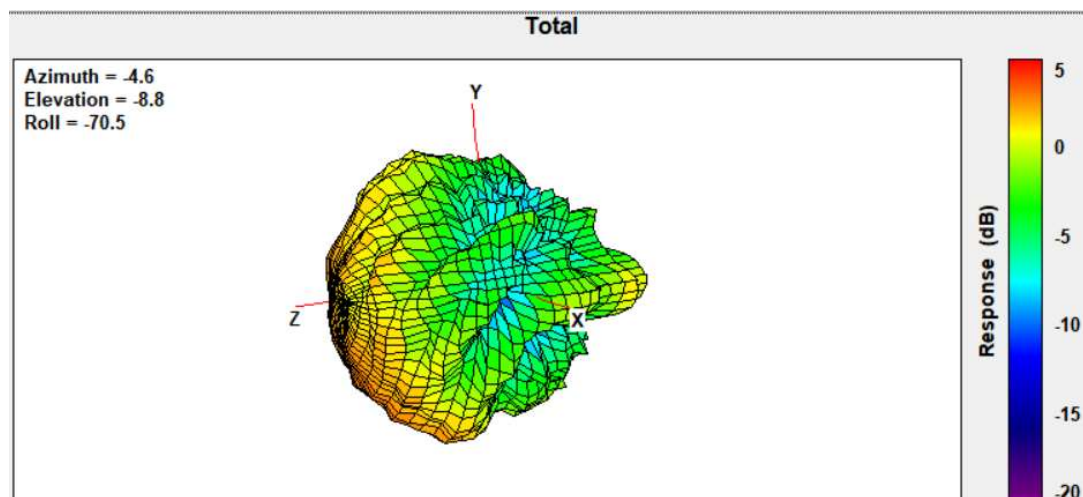
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	4.91



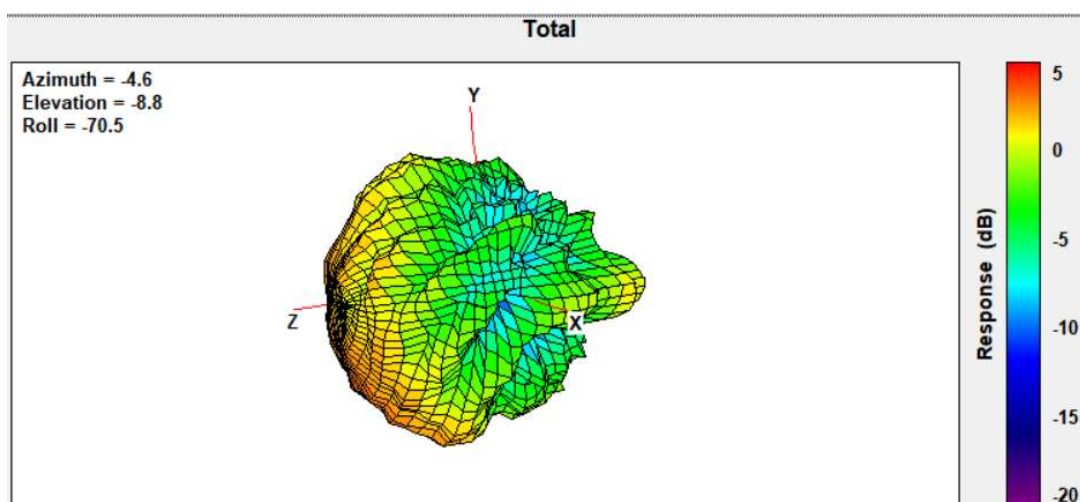
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.90



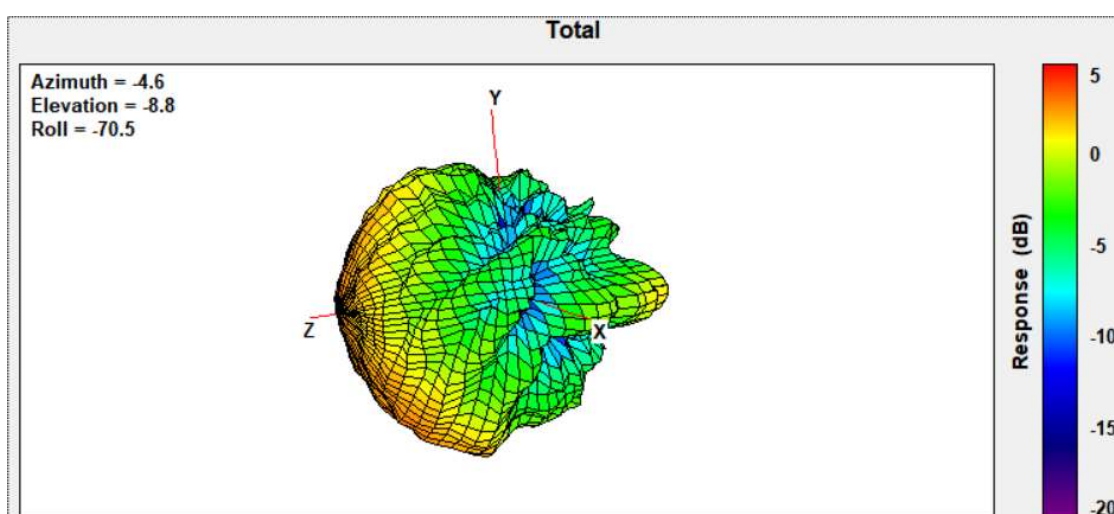
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.90



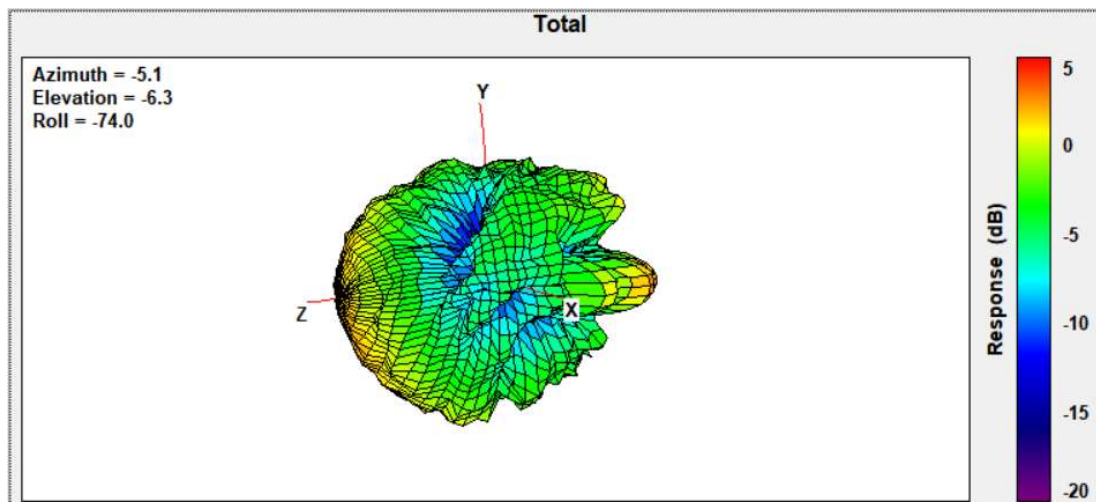
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.87



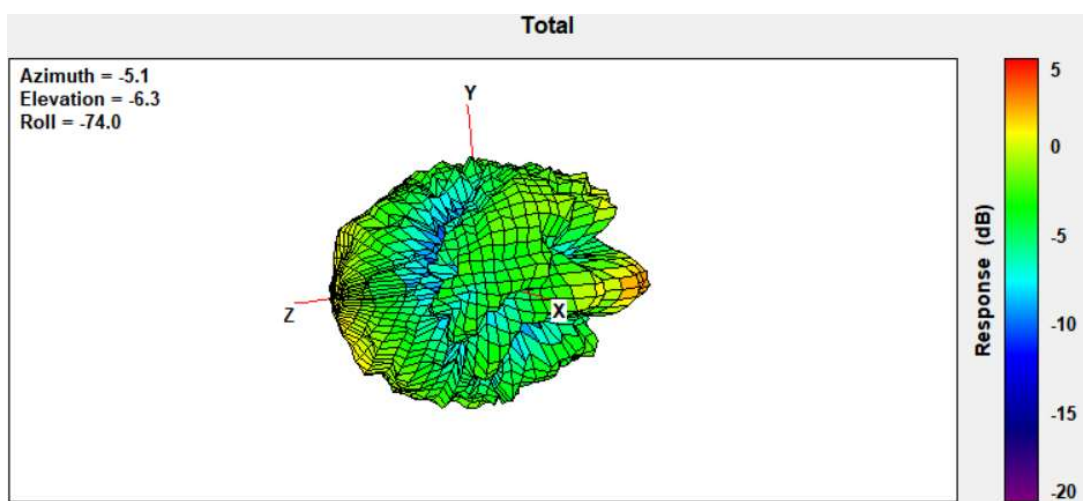
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.73



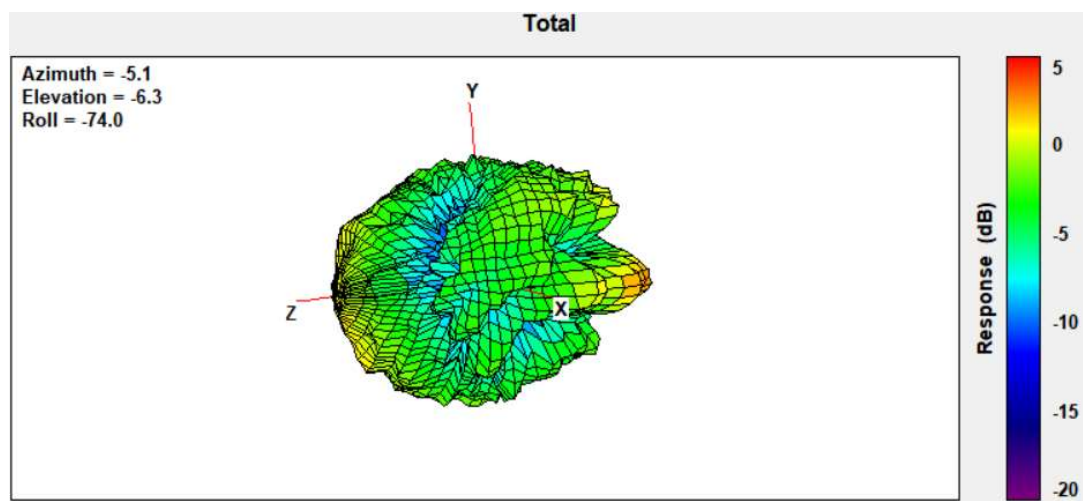
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.29



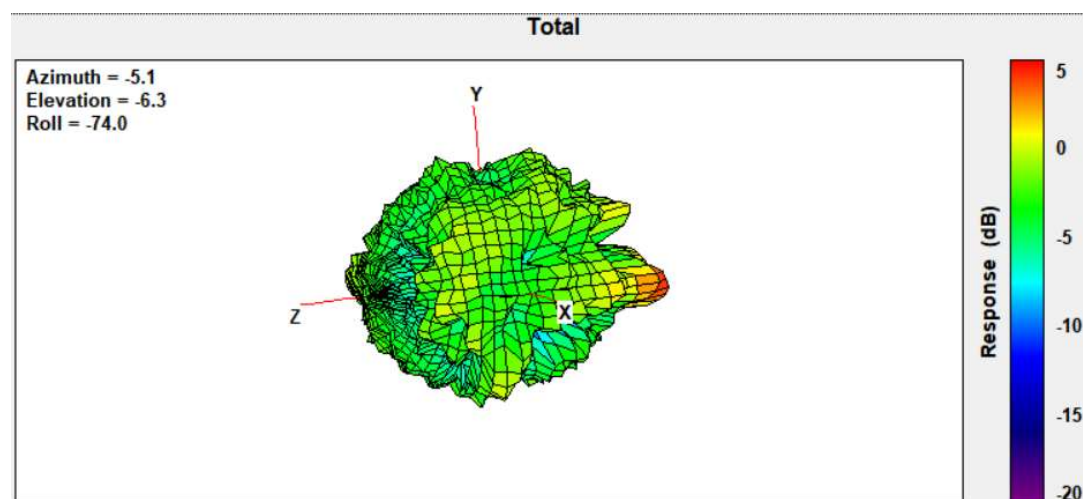
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.58



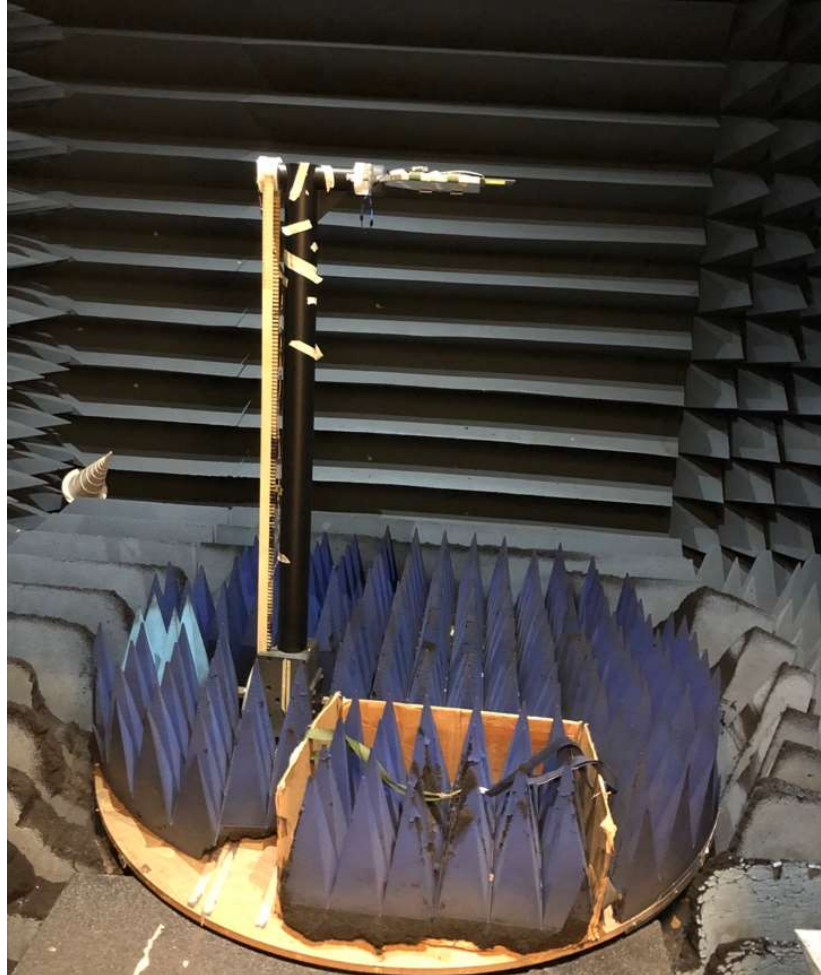
Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	4.09



Annex A. Photographs

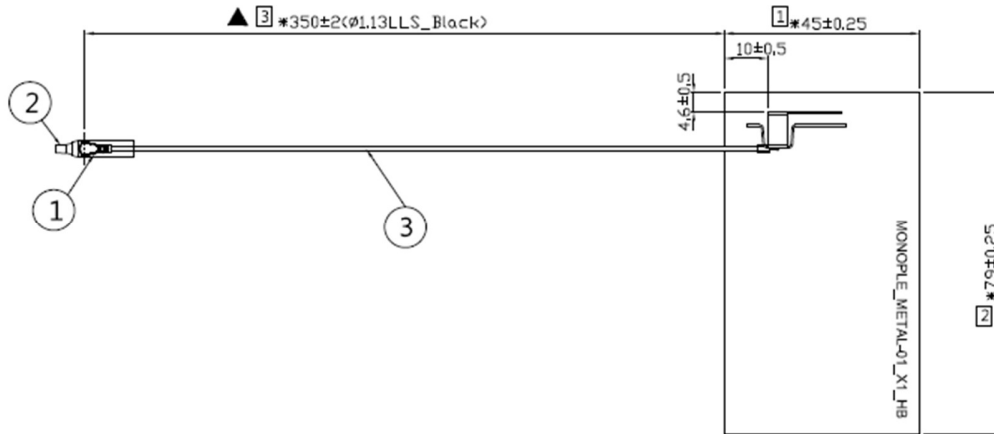
A.1 Setup Photo



A.2 Test sample

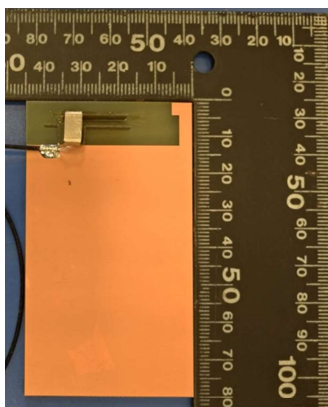
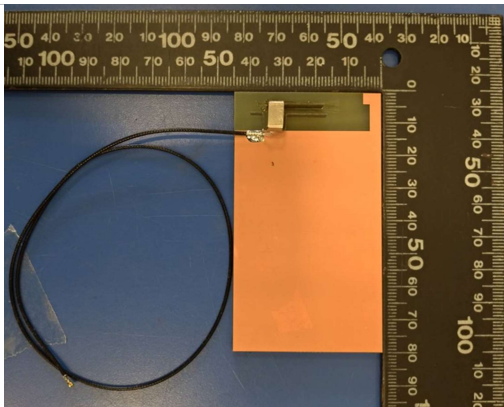
Main Antenna

Antenna Drawing



Antenna Photo

Front



Back

