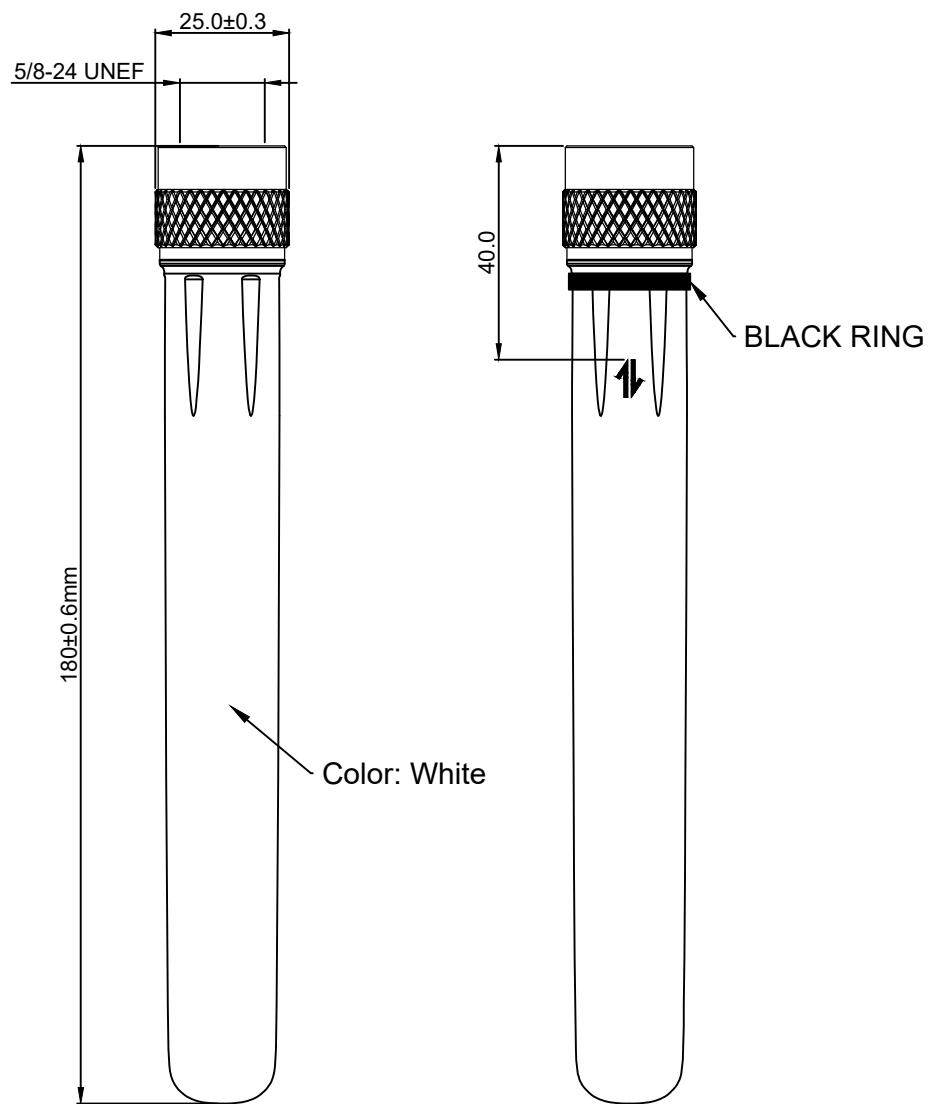


Parts Specification Cover

Customer	Wistron Neweb Corporation
WNC P/N	08.21030.006
Supplier	Grand-Tek Technology CO. LTD
Brand	
Supplier P/N	103GG00000040
Revision	X1

MFG	ADDRESS	TEL
Site 1 : Factory Name	8F, No 233-2, Bao Ciao Rd., Sin Dian Dist, New Taipei City,23145, Taiwan (R.O.C.)	02-29177353
Site 2 : Factory Name		
Site 3 : Factory Name		

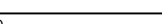
approval	reviewer	prepared
Mark	Jason	Gene



Electrical Specification			
Frequency Range	2400MHz~2500MHz	5150MHz - 5850MHz	5925MHz - 7125MHz
Polarization	Linear, Vertical		
HPBW-Horizontal	360°		
HPBW-Vertical	45 °		
Peak Gain	2.4 dBi Max.	5.6 dBi Max.	7.6 dBi Max.
Efficiency	82% Min.	73% Min.	73% Min.
VSWR	2.0 Max.:1		2.5 Max.:1
Impedance	50 Ohms		
Connector	RP-N plug		

Environmental & Mechanical Characteristics	
Temperature	-40°C to 70°C
Humidity	95% @ 55°C
Radome color	White
Radome material	PC
Weight	60gw
Dimensions	Ø 25 x 180mm

REACH
RoHS

UNLESS OTHERWISE SPECIFIED TOLERANCE : X.X ±0.3 X.XX ±0.15		ANGLES : ±2° DO NOT SCALE DRAWING		 榮昌科技股份有限公司 GRAND-TEK TECHNOLOGY CO., LTD.		
Designed BY	Jason_Hsu		TITLE Antenna,WiFi 7,Tri Band,RP-N Plug,Black Ring		G00140	
DRAWN BY	Gene					
CHECKED BY	Eric		SIZE A3	UNIT mm	PART NO. 08.21030.006	REV. X1
APPROVED BY	Mark		SCALE 1:1	THIRD ANGLE PROJECTION 		PAGE 1 OF 4
Type No. -			ITEM NO. 103GG00000040			DATE 2023-06-08

WiFi-7 Dual Band Antenna

2400~2500MHz / 5150~5850MHz / 5925~7125MHz

Final

GTT P/N: 103GG00000040



✓ RF Specification

- Frequency Range: 2400~2500 MHz / 5150~5850MHz / 5925~7125 MHz
- Polarization: Linear
- HPBW / Horizontal: 360°
- HPBW / Vertical: 45°
- Peak Gain: 2.4 dBi / 5.6 dBi / 7.6 dBi max.
- VSWR: 2.0 typ.
- Power Handling: 2W(cw)
- Impedance: 50 Ohms
- Connector: RP-N Plug

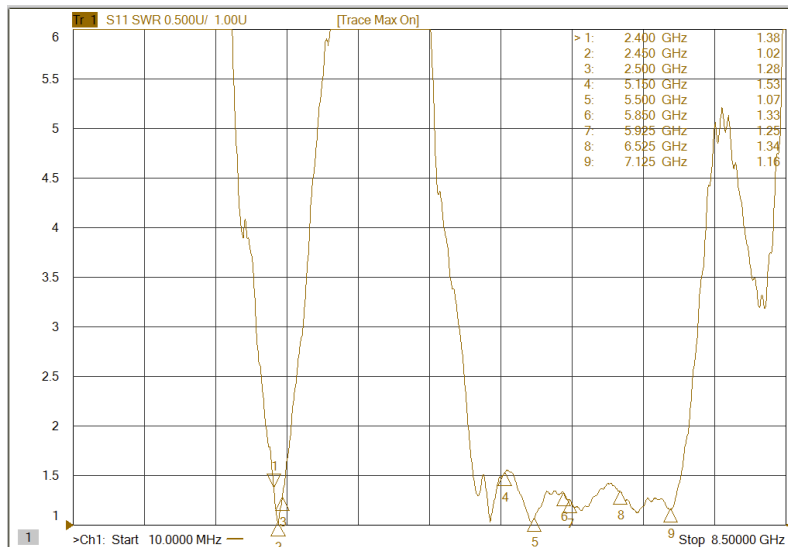
• Environmental & Mechanical Characteristics

- Temperature: -40°C to +70°C
- Humidity: 95% @55°C
- Waterproof Rating: IPX7
- Antenna Housing Color: White
- Antenna Ring : Black
- Antenna Housing Material: PC UV Resistance
- Dimensions: 180mm(L)x25mm(OD)

Performance Summary

VSWR

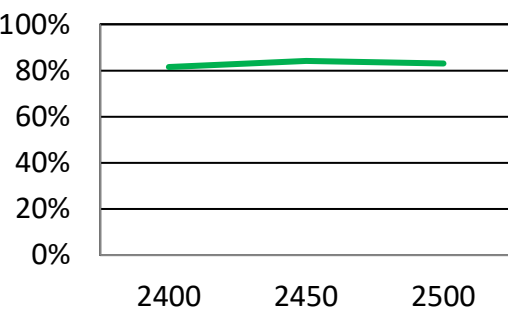
Frequency(MHz)	2400~2500	5150~5850	5925~7125
VSWR	2.0 typ.		2.5 typ.



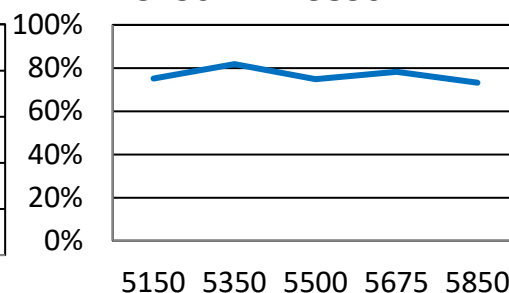
Gain Table

EFFICIENCY

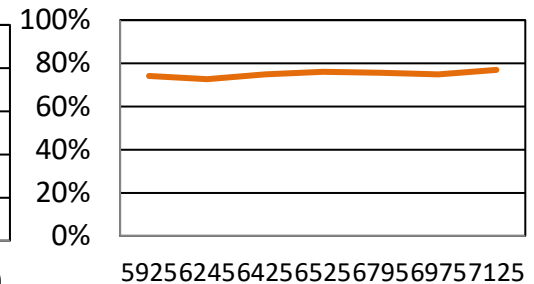
2400MHz~2500MHz



5150MHz~5850MHz

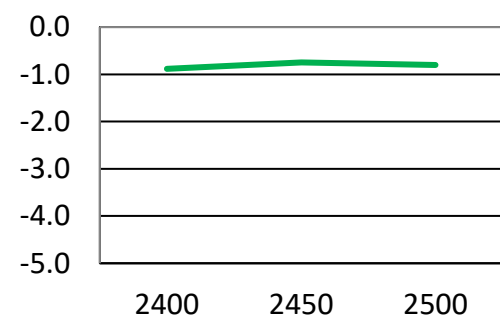


5925MHz~7125MHz

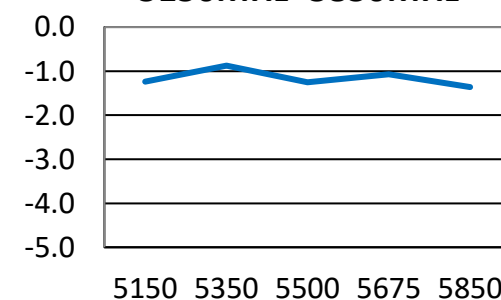


Average Gain

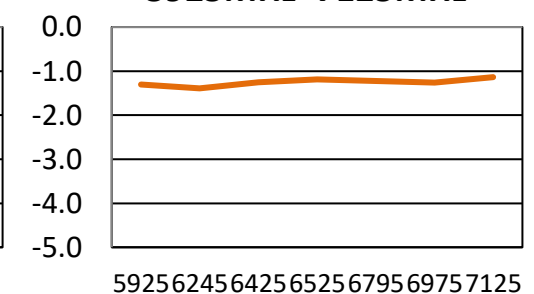
2400MHz~2500MHz



5150MHz~5850MHz

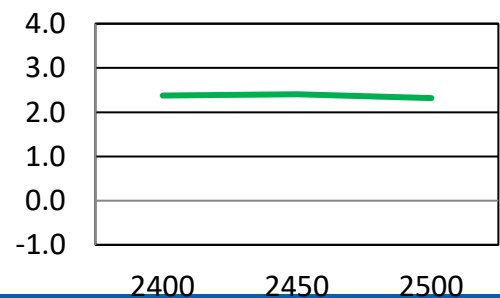


5925MHz~7125MHz

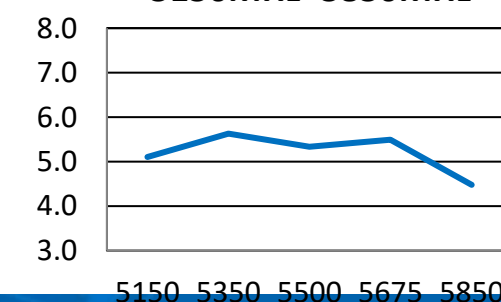


Peak Gain

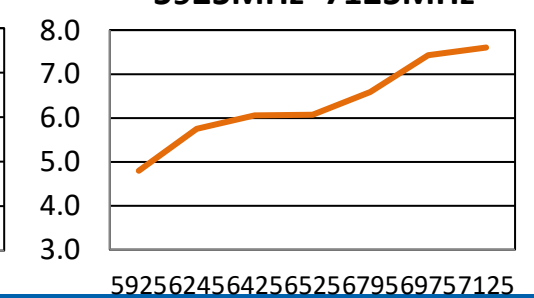
2400MHz~2500MHz



5150MHz~5850MHz



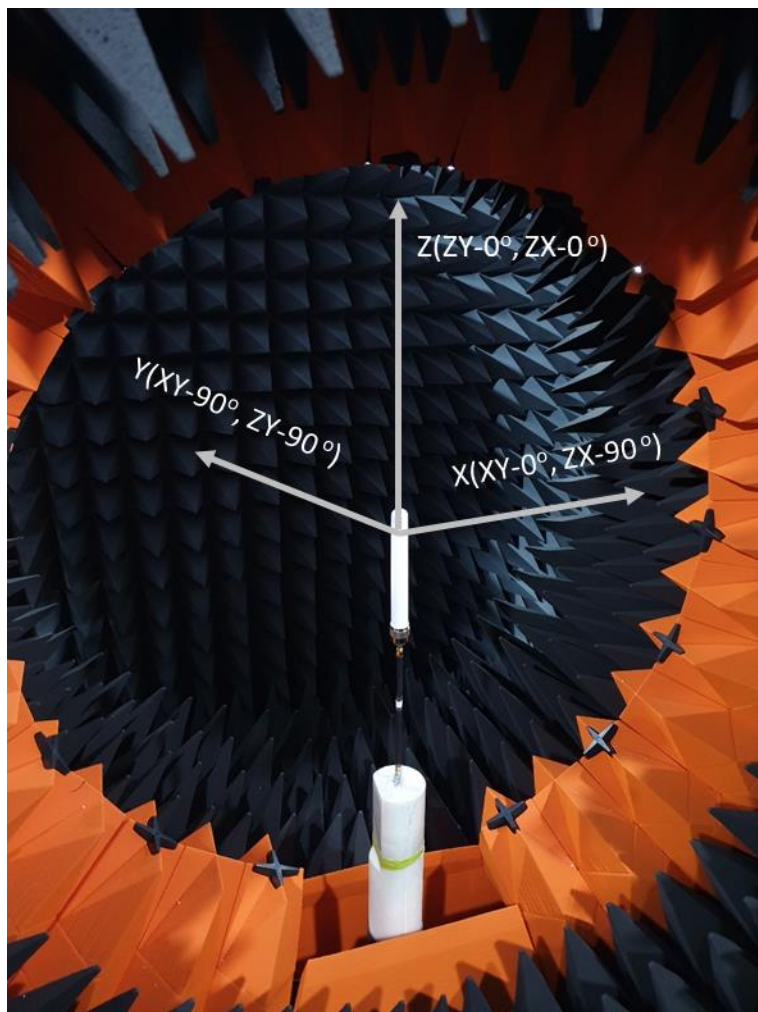
5925MHz~7125MHz



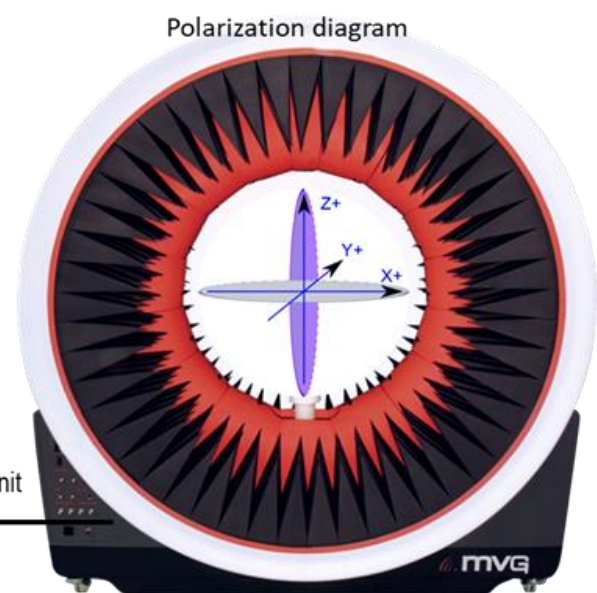
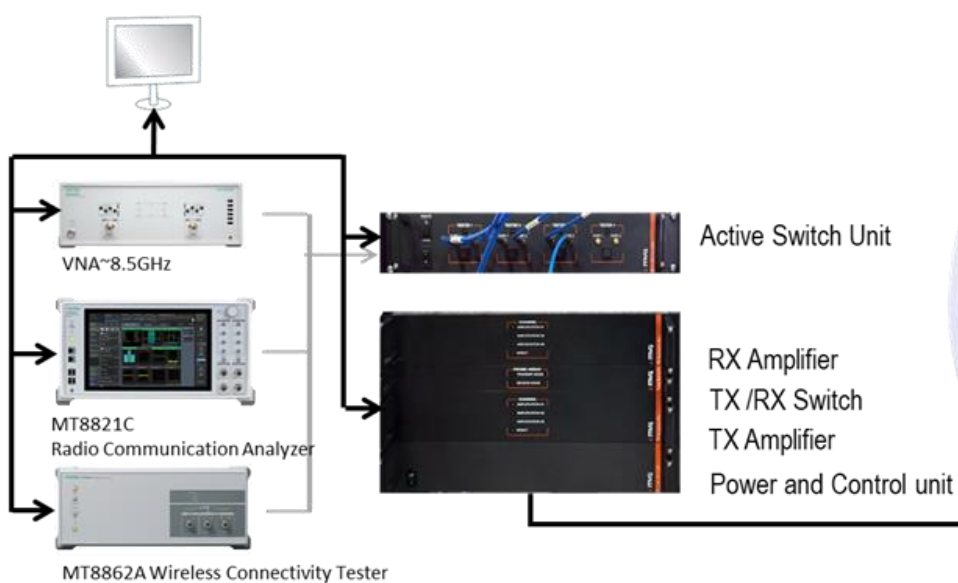
Gain table

Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
2400	82%	-0.9	2.4
2450	84%	-0.8	2.4
2500	83%	-0.8	2.3
5150	75%	-1.2	5.1
5350	82%	-0.9	5.6
5500	75%	-1.3	5.3
5675	78%	-1.1	5.5
5850	73%	-1.4	4.5
5925	74%	-1.3	4.8
6085	74%	-1.3	5.6
6245	73%	-1.4	5.8
6405	74%	-1.3	6.0
6425	75%	-1.3	6.1
6465	76%	-1.2	6.1
6525	76%	-1.2	6.1
6645	77%	-1.1	6.3
6795	76%	-1.2	6.6
6875	75%	-1.3	7.1
6975	75%	-1.3	7.4
7095	77%	-1.1	7.6
7125	77%	-1.1	7.6

Antenna Testing Setup and Orientation

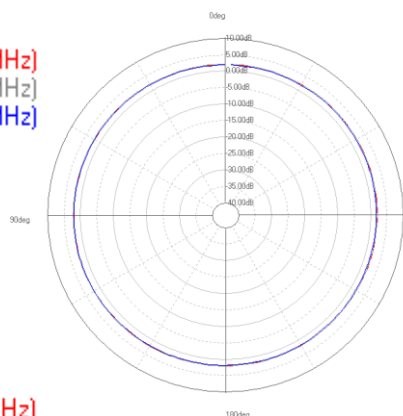


3D OTA Chamber-SATIMO Starlab® 2019

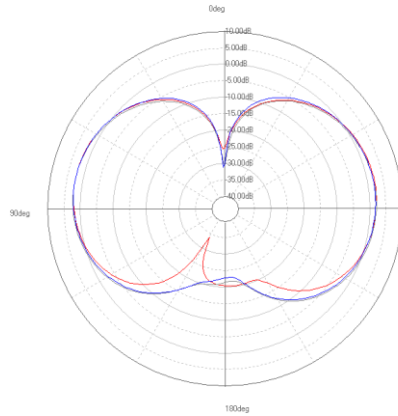


Radiation Pattern

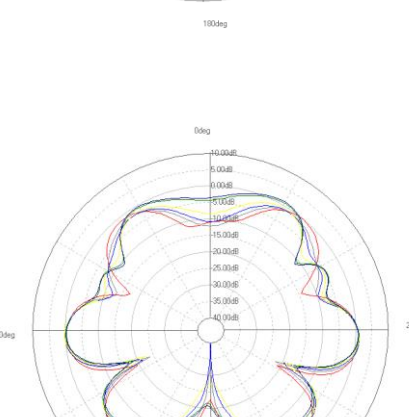
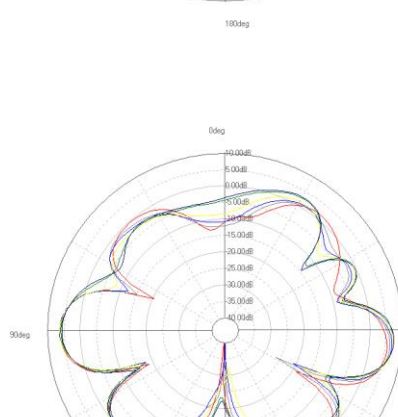
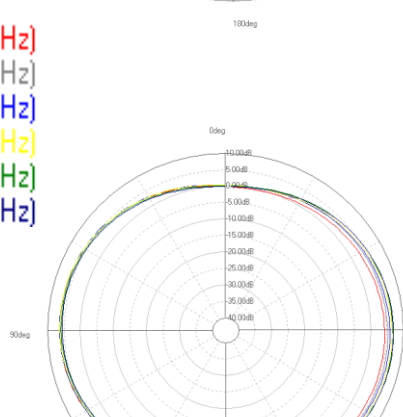
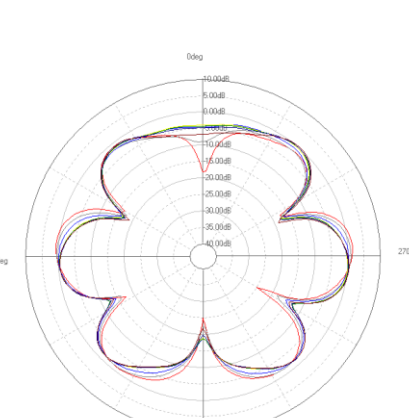
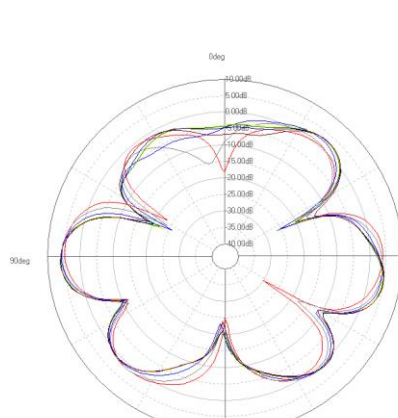
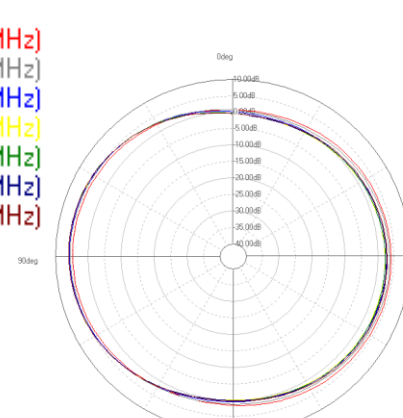
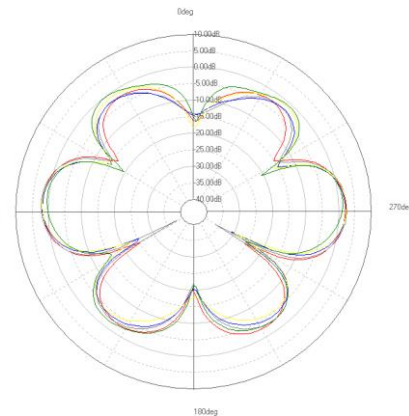
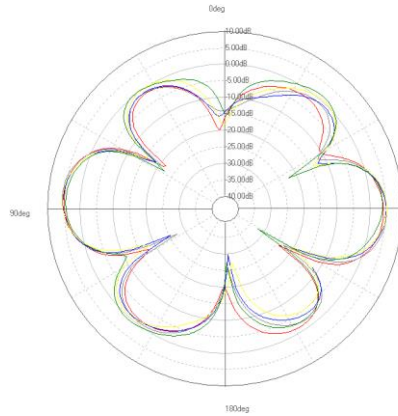
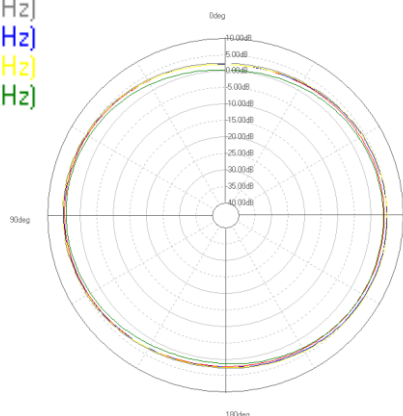
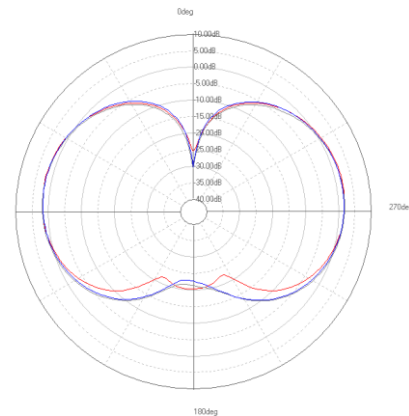
XY-plane



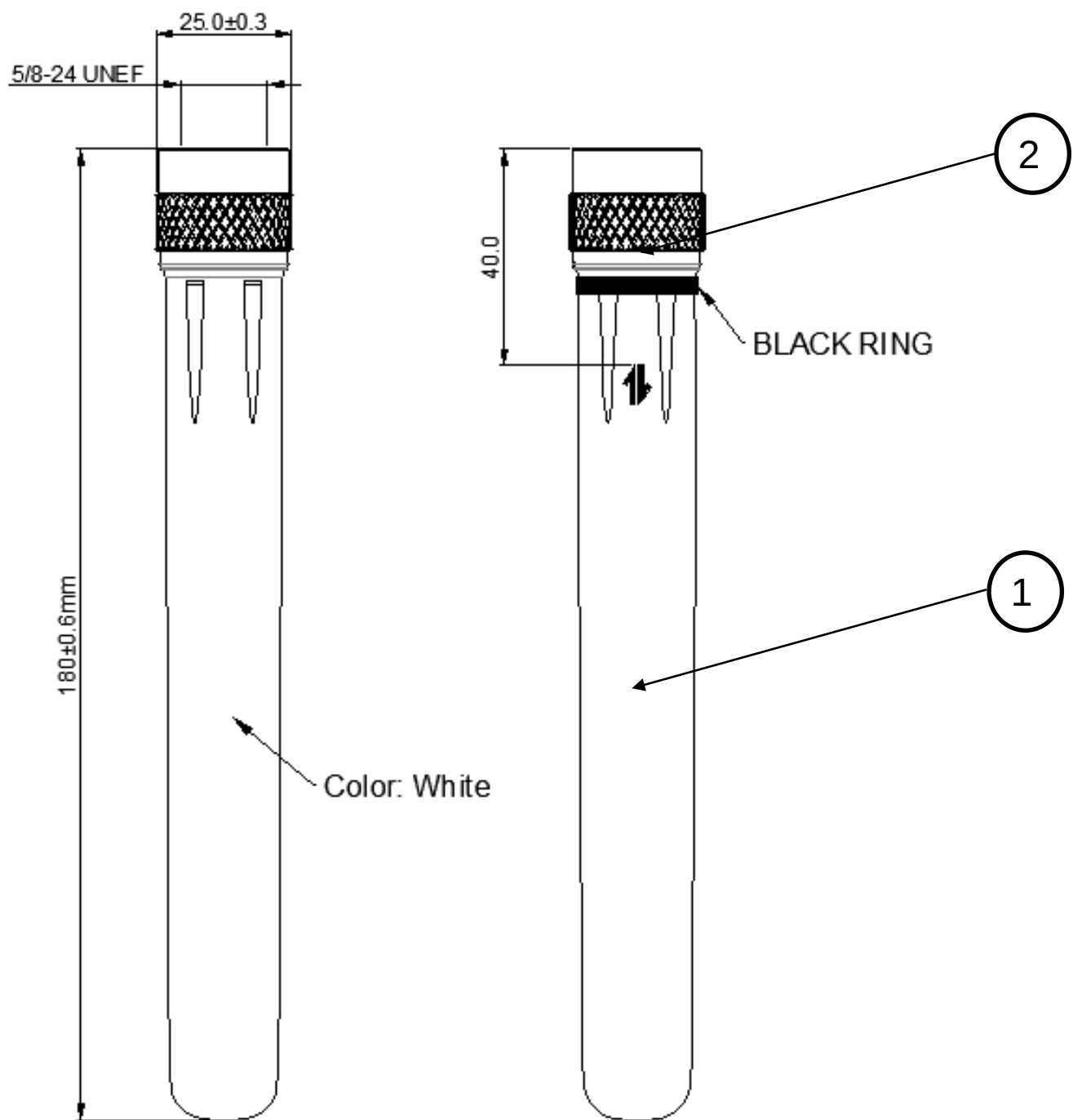
YZ-plane



ZX-plane



Installation Guide



1. Antenna TOP Cover, PC UV Resistance
2. N Straight Plug For Robust Antenna