



TAOGLAS®



Datasheet

Part No:
GW26.0152

Description

2.4GHz Miniature Terminal Mount Monopole Antenna

Features:

Miniature Terminal Mount Monopole Antenna
Covering: Wi-Fi 2.4GHz
Connector: RP- SMA(M)
Dims: $\varnothing 28.5 \times 17.2$ mm
ROHS Compliant

1.	Introduction	3
2.	Specification	4
3.	Mechanical Drawing	5
4.	Packaging	6
5.	Antenna Characteristics	7
6.	Radiation Patterns	11
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	Changelog	15

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1. Introduction



The GW.26 2.4GHz Monopole RP-SMA(M) terminal mount antenna is ideal for 2.4GHz wireless applications such as Bluetooth® and Wireless LAN. It has a fully IP65 rated waterproof robust housing, ensuring high reliability and the connector mount is fully customizable.

Many module manufacturers specify peak gain limits for any antennas that are to be connected to that module. Those peak gain limits are based on free-space conditions. In practice, the peak gain of an antenna tested in free-space can degrade by at least 1 or 2dBi when put inside a device. So ideally you should go for a slightly higher peak gain antenna than mentioned on the module specification to compensate for this effect, giving you better performance.

Upon testing of any of our antennas with your device and a selection of appropriate layout, integration technique, or cable, Taoglas can make sure any of our antennas' peak gain will be below the peak gain limits. Taoglas can then issue a specification and/or report for the selected antenna in your device that will clearly show it complying with the peak gain limits, so you can be assured you are meeting regulatory requirements for that module.

For example, a module manufacturer may state that the antenna must have less than 2dBi peak gain, but you don't need to select an embedded antenna that has a peak gain of less than 2dBi in free-space. This will give you a less optimized solution. It is better to go for a slightly higher free-space peak gain of 3dBi or more if available. Once that antenna gets integrated into your device, performance will degrade below this 2dBi peak gain due to the effects of GND plane, surrounding components, and device housing. If you want to be absolutely sure, contact Taoglas and we will test. Choosing a Taoglas antenna with a higher peak gain than what is specified by the module manufacturer and enlisting our help will ensure you are getting the best performance possible without exceeding the peak gain limits.

2. Specification

Electrical

Band	Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
Wi-Fi 2.4GHz	2400-2500	35.6	-4.49	0.99	50 Ω	Vertical	Omni directional	10W

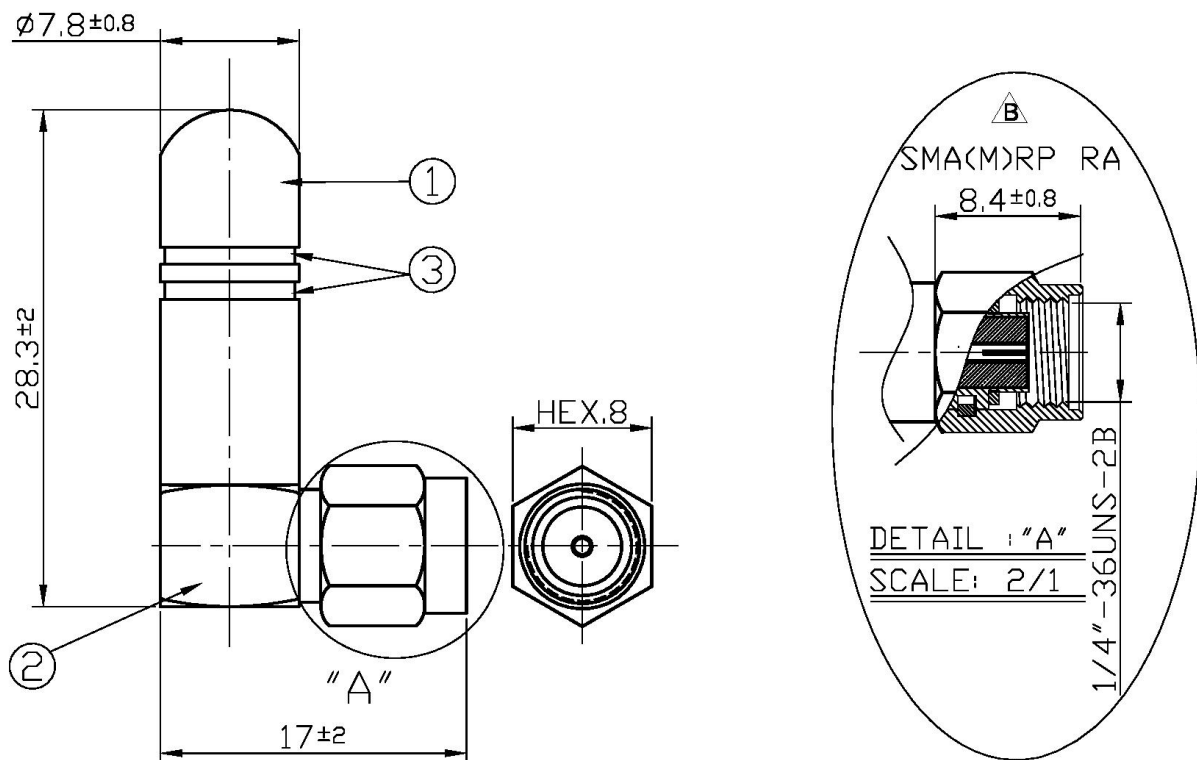
Mechanical

Dimensions	\varnothing 28.5 x 17.2mm
Weight	4g
Material	TPEE
Connector	RP-SMA(M)

Environmental

Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
IP Rating	IP65

3. Mechanical Drawing



	Name	P/N	$\triangle B$	Material	Finish	QTY
①	Antenna Housing	000111G040002A		TPEE	Black	1
②	SMA(M)RP RA $\triangle B$	210113J000002A		Brass	Gold	1
③	Colour Stripes	000111G040002A		Acrylic Paint	Green	1

4. Packaging

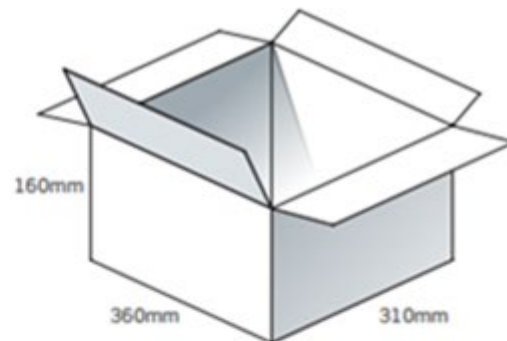
1 pcs GW.26 per PE Bag
 Bag Dimensions - 74 x 42 mm
 Weight - 4g



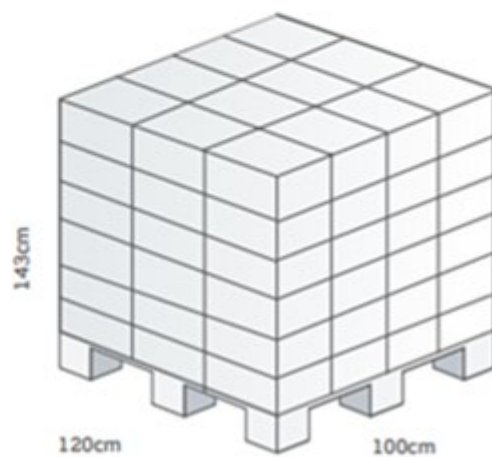
100 pcs GW.26 per PE Large Bag
 Bag Dimensions - 280x 180mm
 Weight - 400g



1500 pcs GW.26 per carton
 Carton - 360x 310 x 160mm
 Weight - 6.1Kg

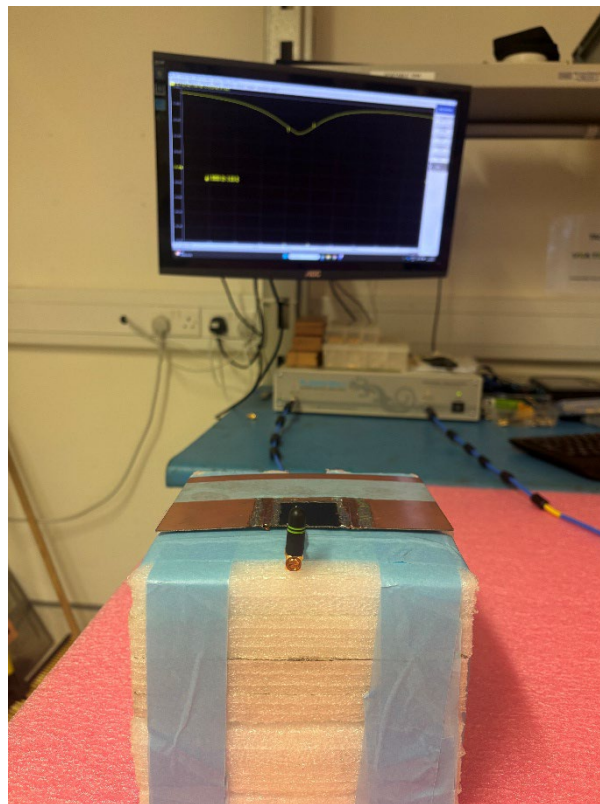
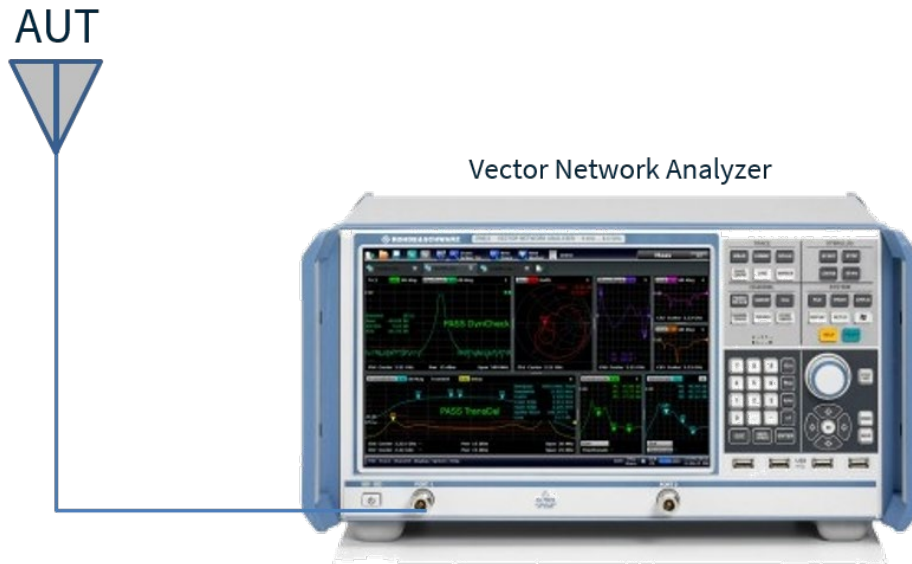


Pallet Dimensions 120x 100 x 143cm
 72 Cartons per Pallet
 12 Cartons per layer
 6 Layers



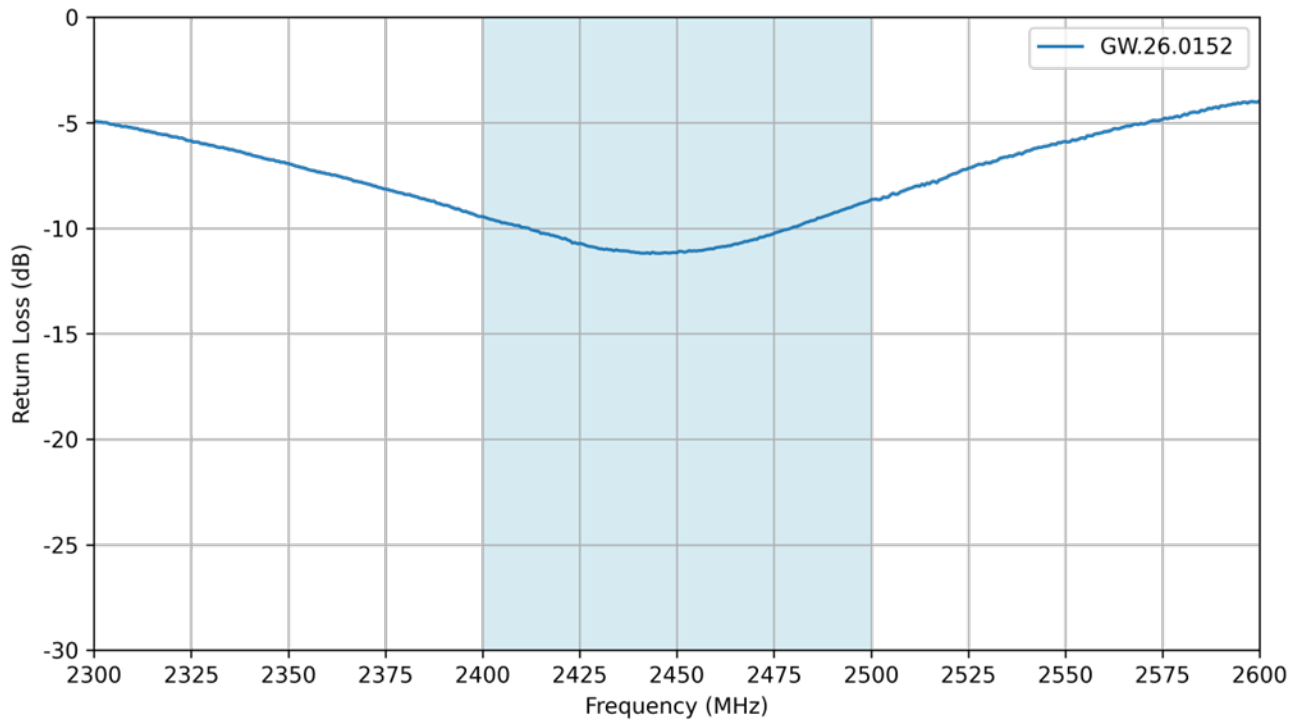
5. Antenna Characteristics

5.1 Test Setup

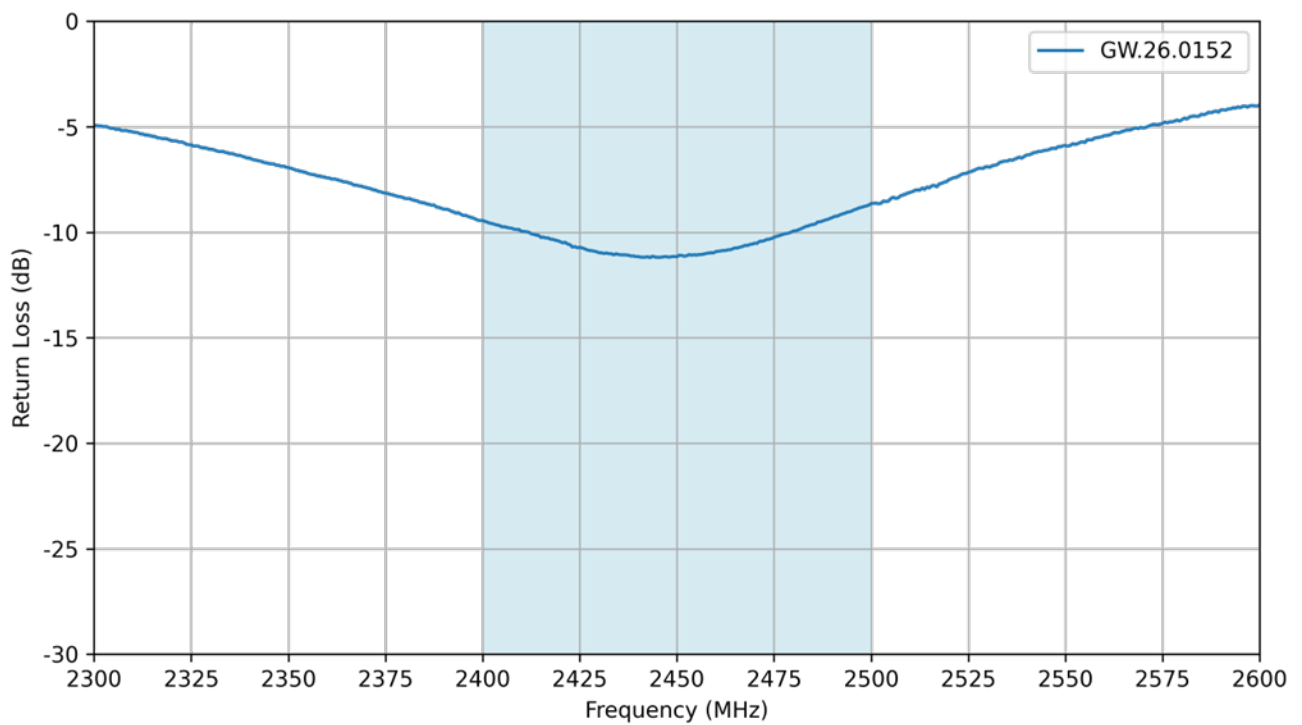


Tested on 150x90mm Ground Plane

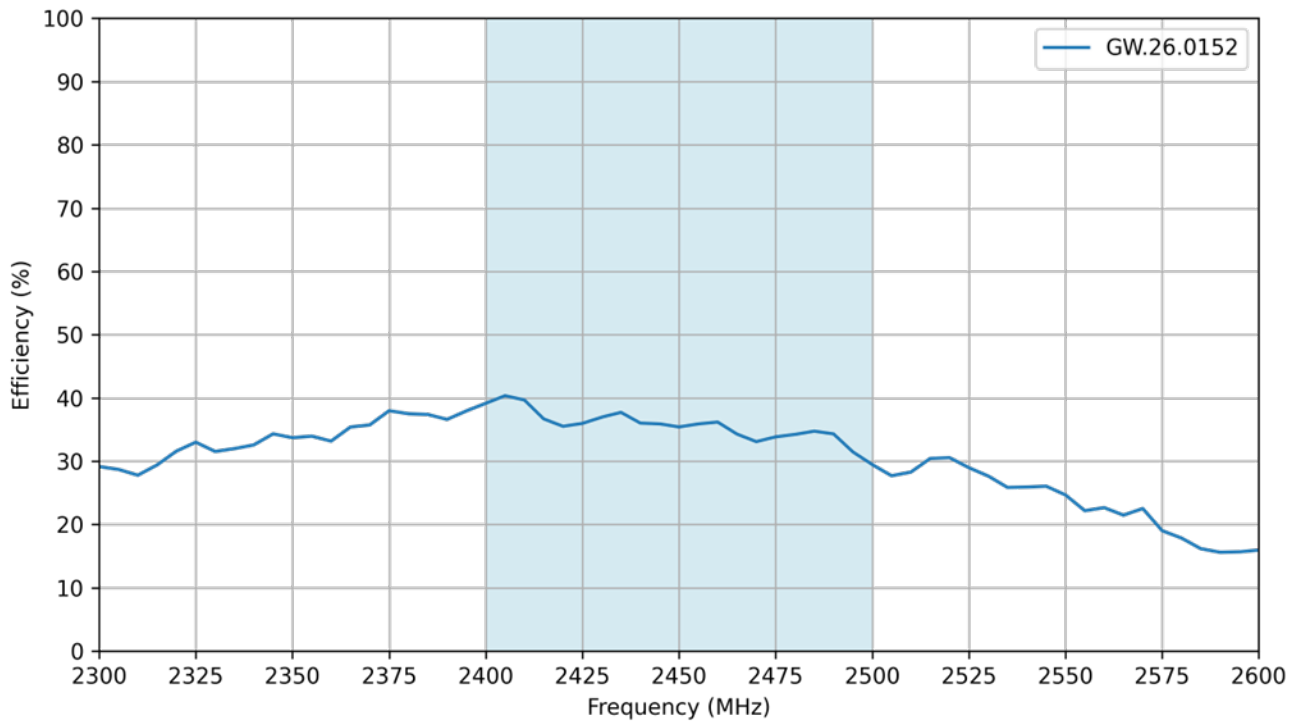
5.2 Return Loss



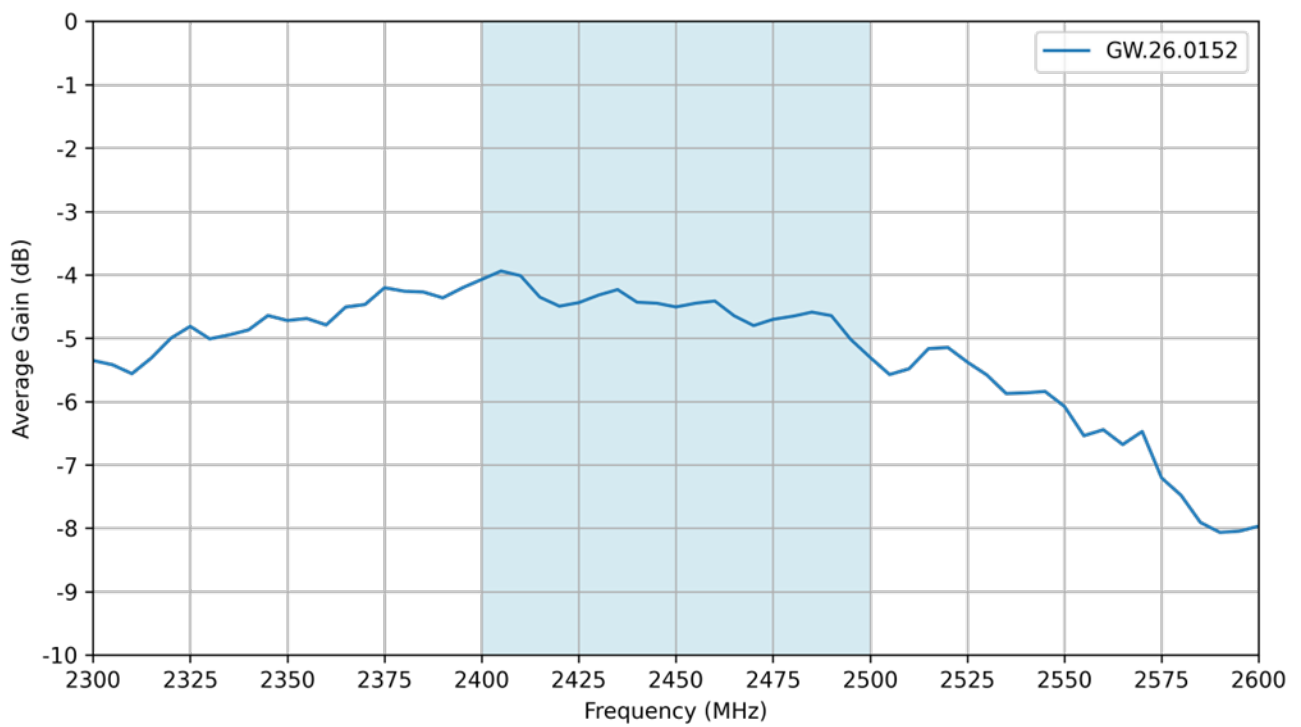
5.3 VSWR



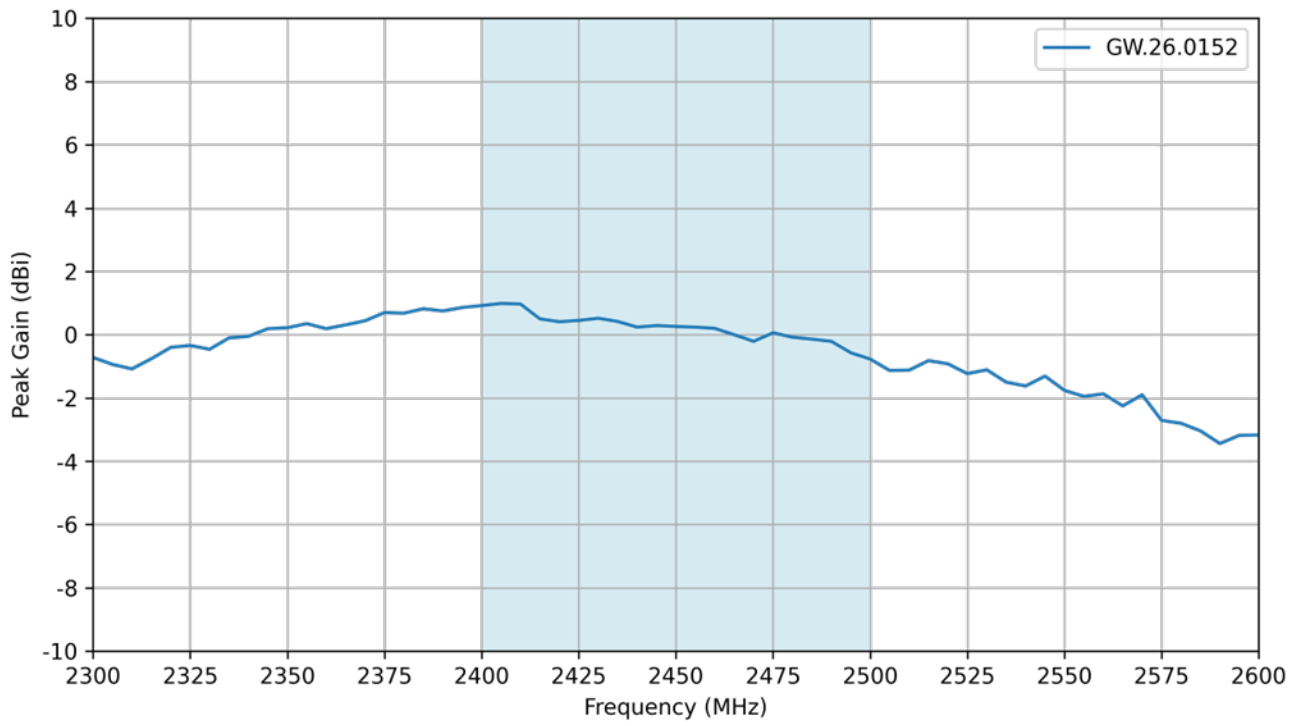
5.4 Efficiency



5.5 Average Gain

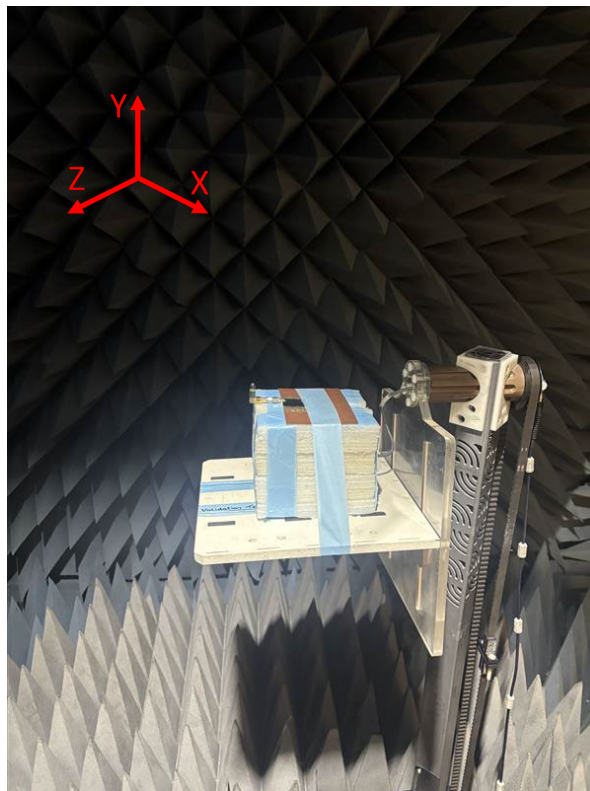
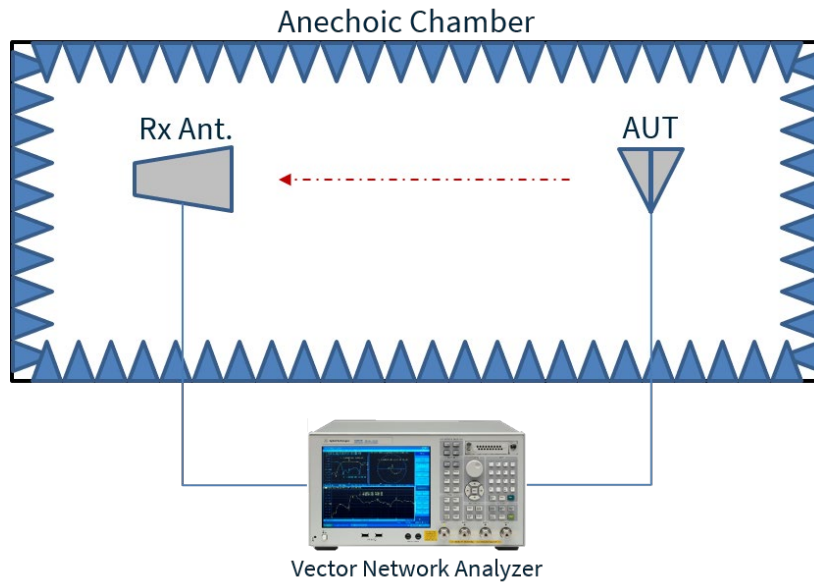


5.6 Peak Gain



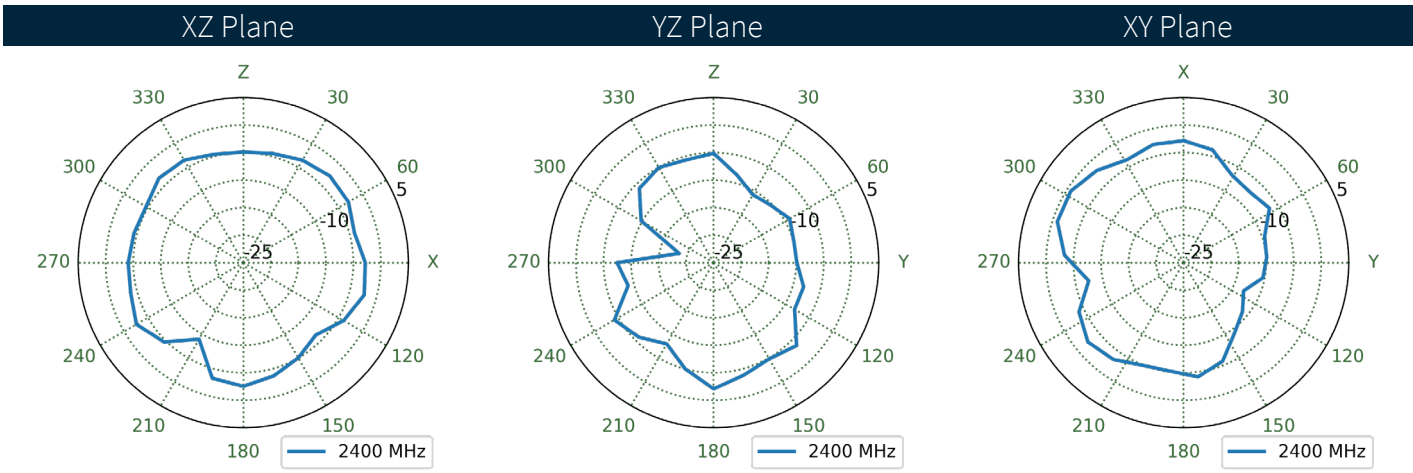
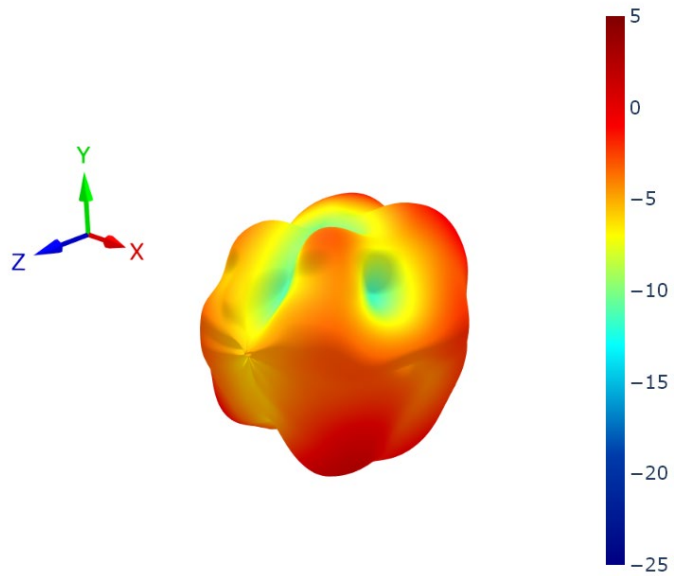
6. Radiation Patterns

6.1 Test Setup

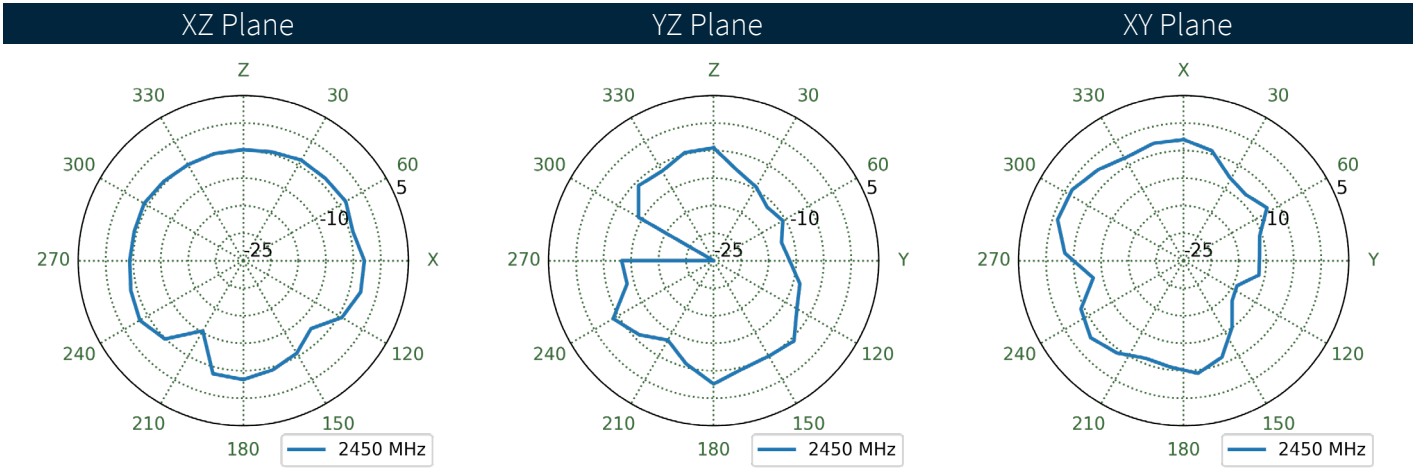
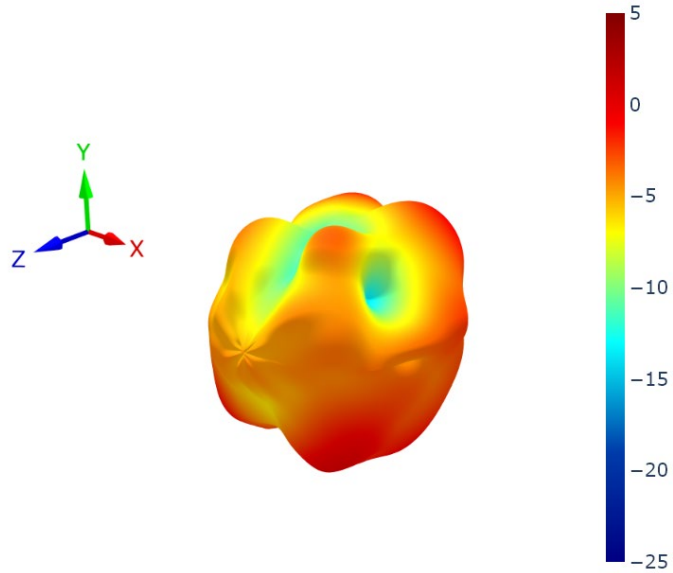


Tested on 150x90mm Ground Plane

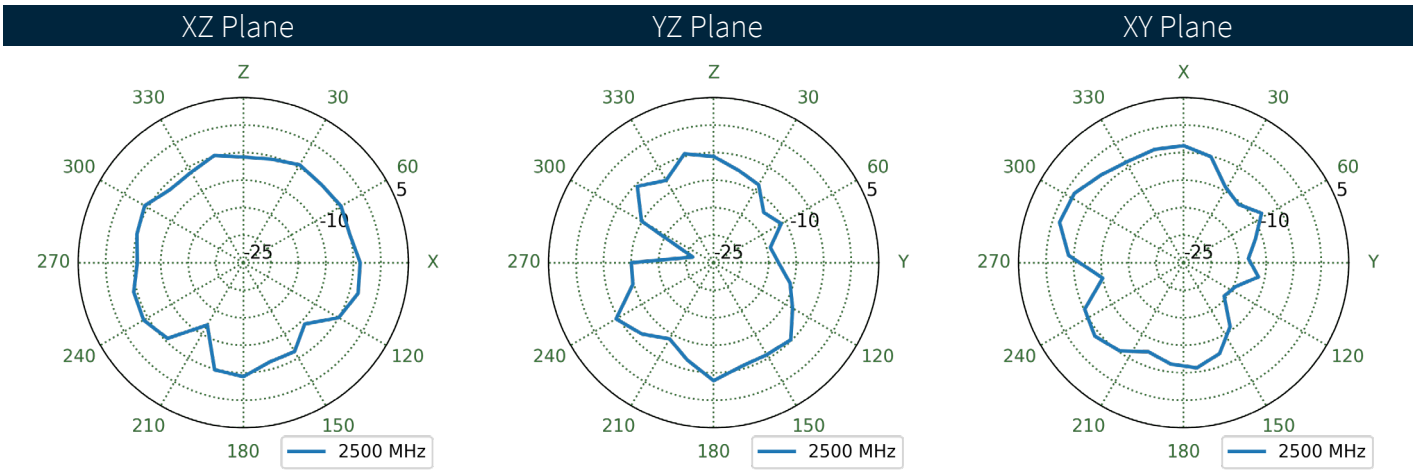
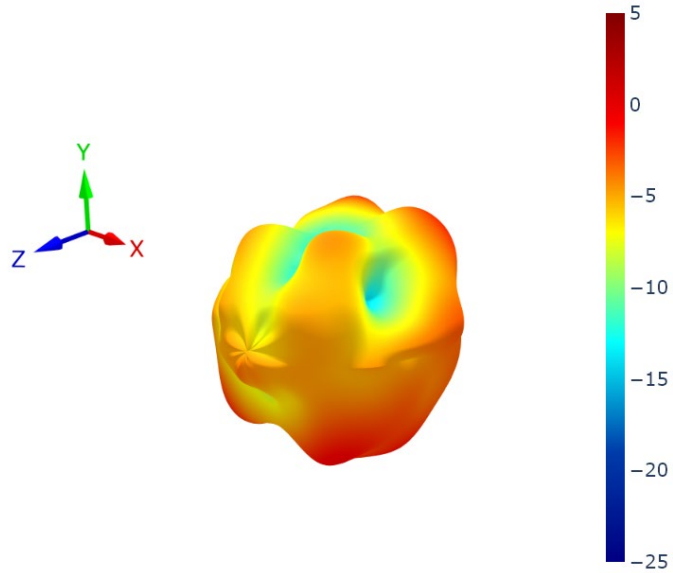
6.2 Patterns at 2400 MHz



6.3 Patterns at 2450 MHz



6.4 Patterns at 2500 MHz



Changelog for the datasheet

SPE-11-8-004 – GW.26.0152

Revision: K (Current Version)

Date:	2025-11-24
Notes:	Full datasheet update
Author:	Gary West

Previous Revisions

Revision: J

Date:	2025-03-28
Notes:	Added mention of IP65 to Introduction.
Author:	Conor McGrath

Revision: E

Date:	2015-08-24
Notes:	Added note on gain
Author:	Aine Doyle

Revision: I

Date:	2025-03-28
Notes:	Updated dBi
Author:	Jack Conroy

Revision: D

Date:	2014-12-03
Notes:	Amended Bandwidth to 100MHz
Author:	Aine Doyle

Revision: H

Date:	2018-11-02
Notes:	updated with packaing spec and disclaimer
Author:	Andy Mahoney:

Revision: C

Date:	2014-03-14
Notes:	Updated with correct Photo for measurement
Author:	Aine Doyle

Revision: G

Date:	2017-01-05
Notes:	Updated with packaging info and disclaimer
Author:	Andy Mahoney

Revision: B

Date:	2014-01-09
Notes:	
Author:	Unknown

Revision: F

Date:	2016-05-18
Notes:	Amended gain
Author:	Aine Doyle

Revision: A (First Release)

Date:	2013-09-16
Notes:	
Author:	Unknown



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