



External

Antenna Technical Specifications & Operation Description, Arcwave Perk (830-00300) & Nova2 platform

LoveHoney Group

Name Ehsan Tabatabaei
Department Electrical and firmware engineering
Phone +49 30 959993814
E-Mail ehsan.tabatabaei@wowtech.com
Date 30 July 2024
Document Class Confidential

Mailing list	Department	Location	Email
-	-	-	-

This Device is included Bluetooth Low Energy (version 5.0); designed for wireless communication in 2.4GHz ISM band and GFSK modulation. For more details refer to the user manual.

Image of the Antenna & Specifications:

Antenna Type:	29 AWG enameled copper wire ~31 mm length
Mounting:	Soldered directly on PCB
Frequency range:	2.402 – 2.480 GHz

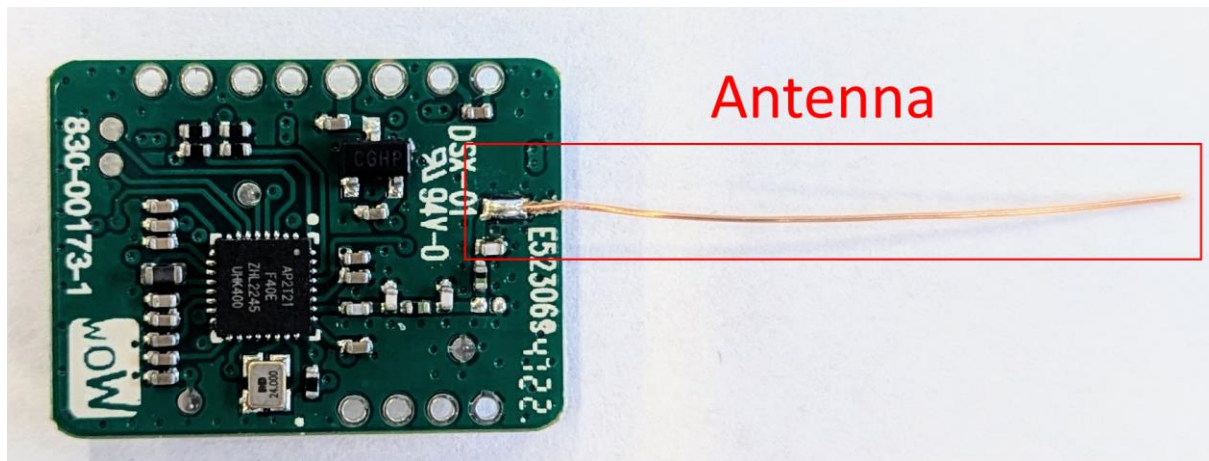


Figure 1: Antenna mounted on PCB

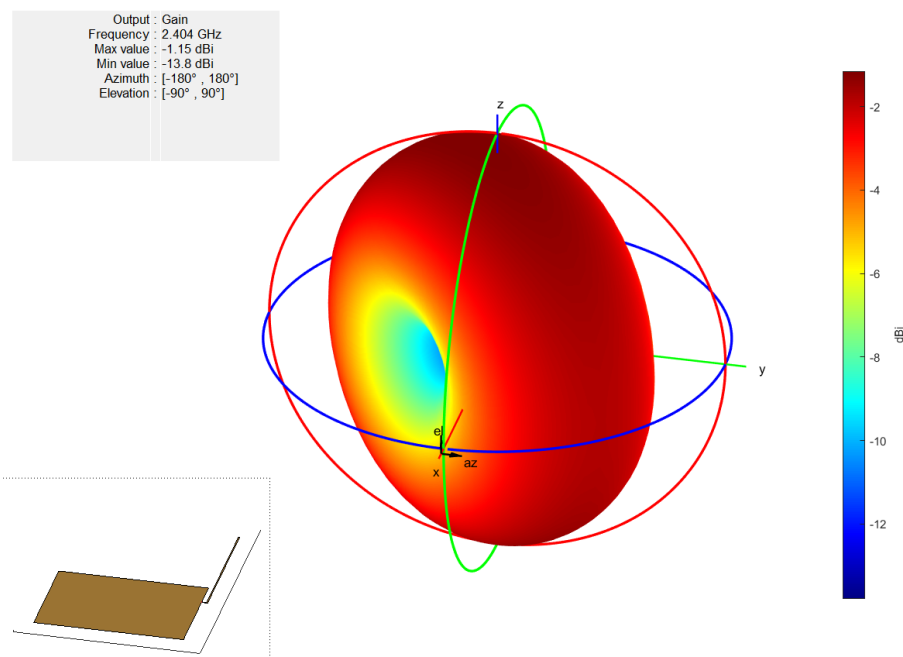
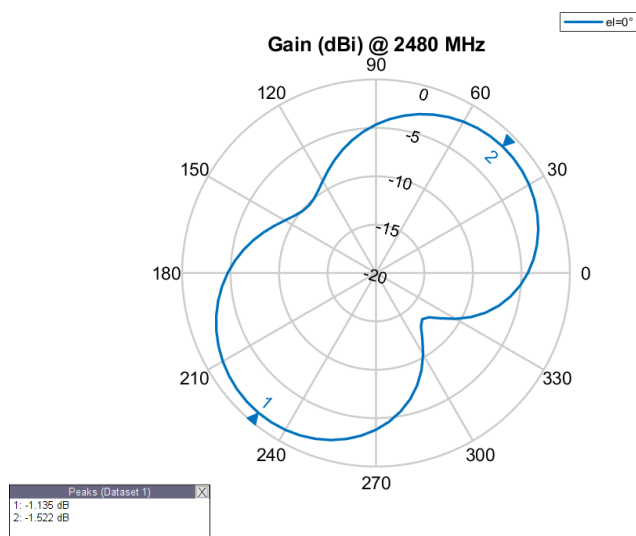
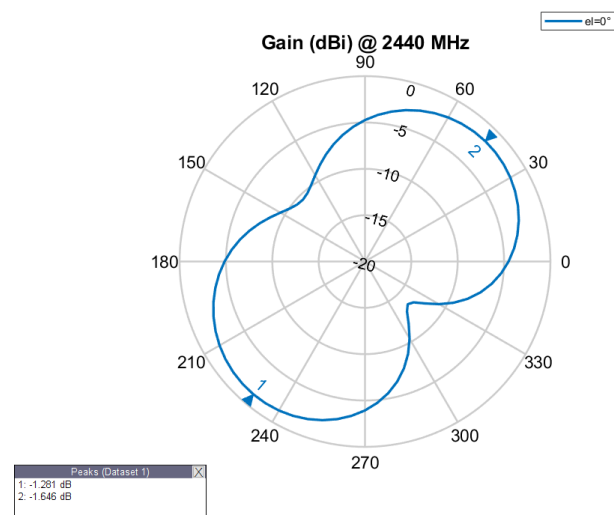
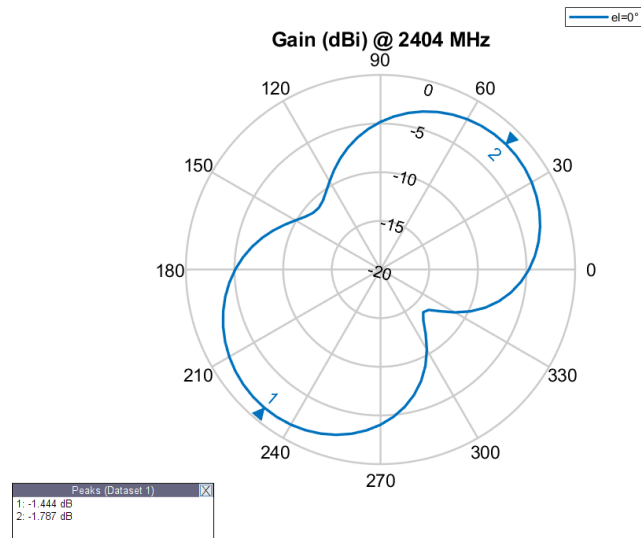
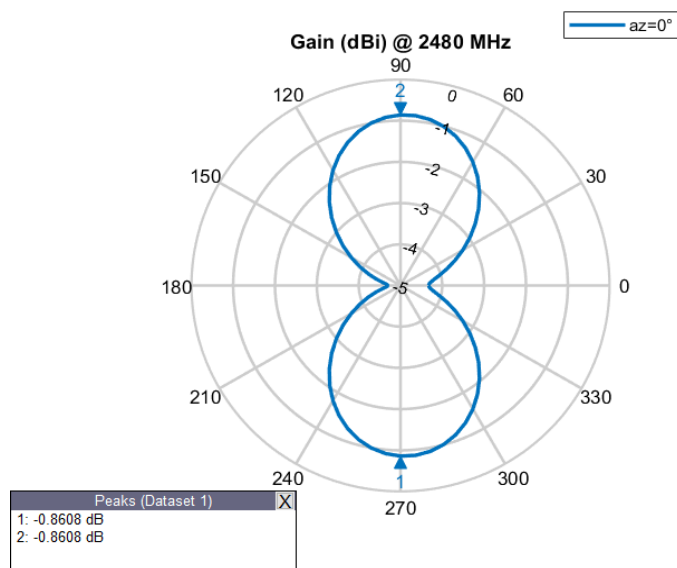
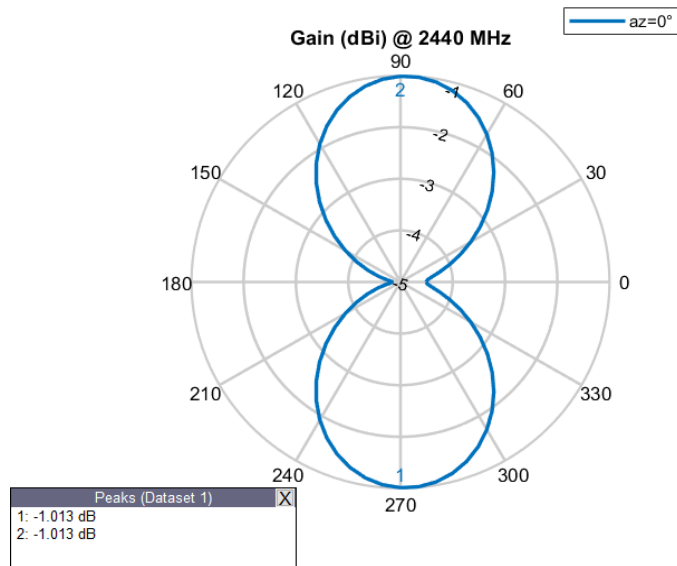
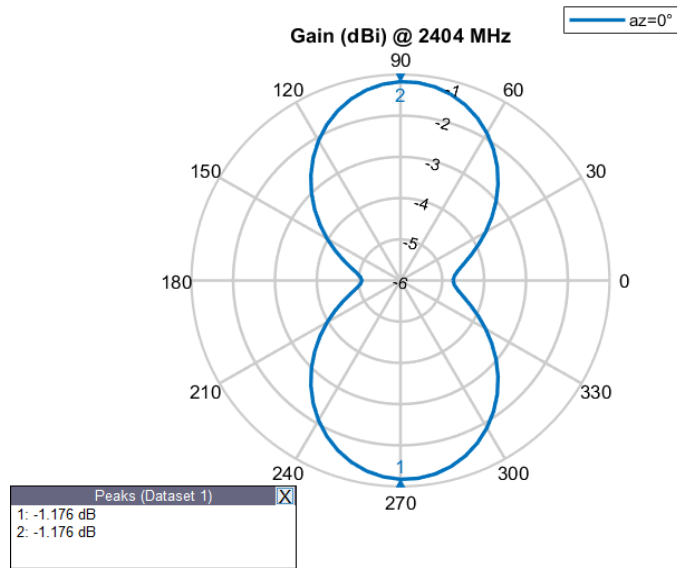


Figure 2: Antenna 3D radiation pattern & simulation (2404 MHz)

Antenna radiation patterns

Channel Frequency: 2404–2480 MHz with 2 MHz spacing





- Max Antenna Gain, -1.44 dBi at 2.404 GHz
- Chipset: AP2T21F40 with crystal CN4024M00012T1238010 24MHz.
- Manufacturer name: Shanghai Tomison Electronic Co.,Ltd.
- Manufacturer address: Fengxian DistrictNo.1118 GongYe Rd, Shanghai

Revision Information

Rev	Date	Description
A	30.07.2024	Initial release. ET