

**2JW1102-C943B**  
**(Alpha Micro Part No. AMC2JW1102-C943B)**  
2.4/5.0/6.0GHz connector mount antenna

**Features**

- 2.4/5.0/6.0GHz ISM:
  - 2410 – 2490MHz
  - 4920 – 7125MHz
- Connector mount
- Wi-Fi 6E antenna
- High gain
- High throughputs
- Low latency
- Ground plane independent
- Hinged connector
- Dimensions: 135 x 19 x 10mm



Wi-Fi 6E offers lower power consumption, higher data rates with peak gigabit speeds, increased capacity with reduced latency that supports higher volumes of users and devices, making it ideal for the next-gen commercial and residential wireless applications. This is a substantial improvement for routers, gaming and IoT devices.

The 2JW1102-C943B caters to 2.4/5.0/6.0, Wi-Fi, Wi-Fi 6, Wi-Fi 6E, Bluetooth, ZigBee, ISM, Sigfox and LoRa standards and is backwards compatible, allowing computing and mobile devices to reach exceptional signal quality, operating within 2410 MHz to 7125 MHz frequencies. This powerful antenna combines high gain and efficiency for optimal antenna performance where uninterrupted signal strengths and high bandwidths are desired, even in very crowded networks.



## 1. Antenna and Electrical Specifications

Parameters	2.4/5.0/6.0GHz antenna		
Standards	Wi-Fi 6E, Bluetooth, ZigBee, ISM, Sigfox, LoRa		
Band (GHz)	2.4	5.0	6.0
Frequency (MHz)	2410 - 2490	4920 - 5925	5925 - 7125
Return loss (dB)	~-17.1	~-12.3	~-9.9
VSWR	~1.4:1	~1.7:1	~2.0:1
Efficiency (%)	~75.8	~84.5	~73.0
Peak gain (dBi)	~4.1	~3.9	~2.8
Average gain (dB)	~-1.2	~-0.7	~-1.4
Impedance (Ohms)	50		
Polarization	Linear		
Radiation pattern	Omni-Directional		
Max. input power (W)	25		
Connector type	RP-SMA male standard (other connectors available)		

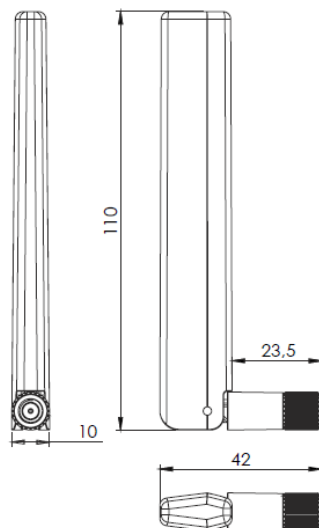
### Measurement Conditions:

- Free space
- Measured in certified CTIA 3D Anechoic chamber

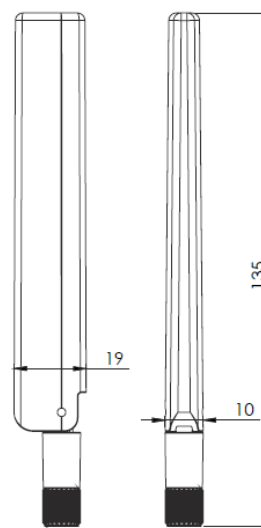
## 2. Mechanical and Environmental Specifications

<b>Mounting type</b>	Connector mount
<b>Dimensions (mm)</b>	135 x 19 x 10
<b>Radome</b>	ABS UV stable
<b>Radome color</b>	Black
<b>Connector feature</b>	Hinged
<b>Operating temperature (°C)</b>	-40 to +85
<b>Storage temperature (°C)</b>	-40 to +85
<b>Substance compliance</b>	RoHS, REACH

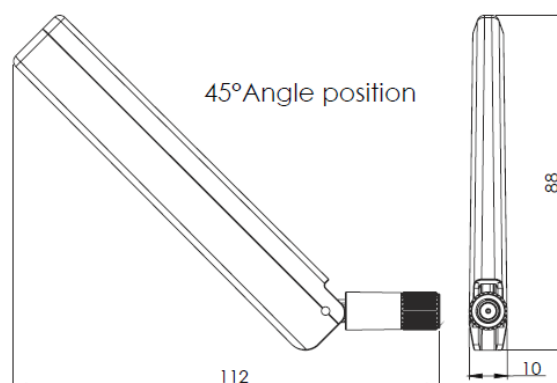
Right Angle position



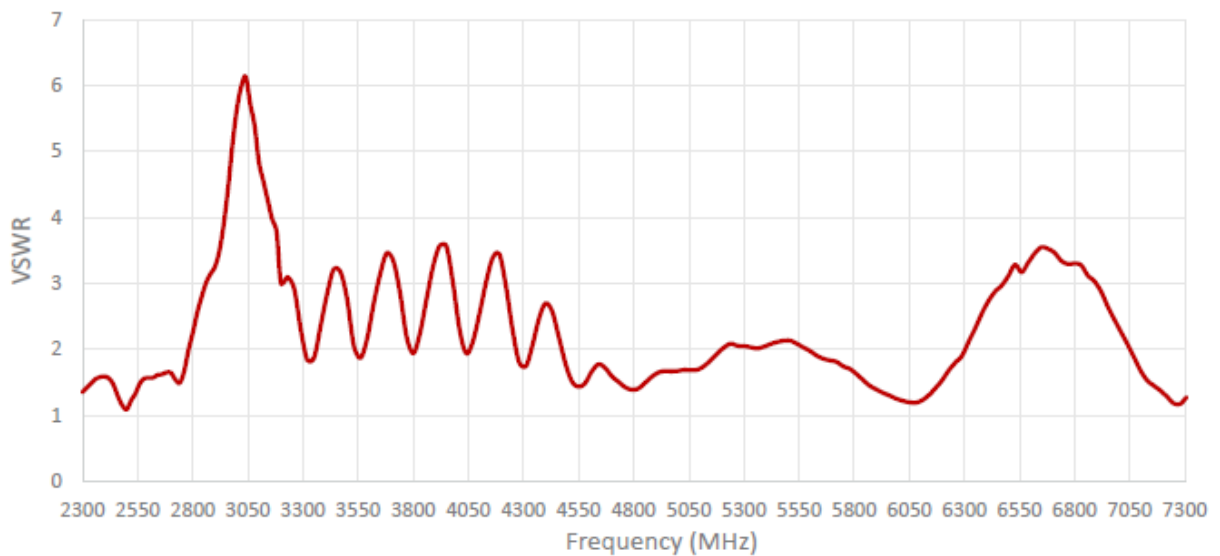
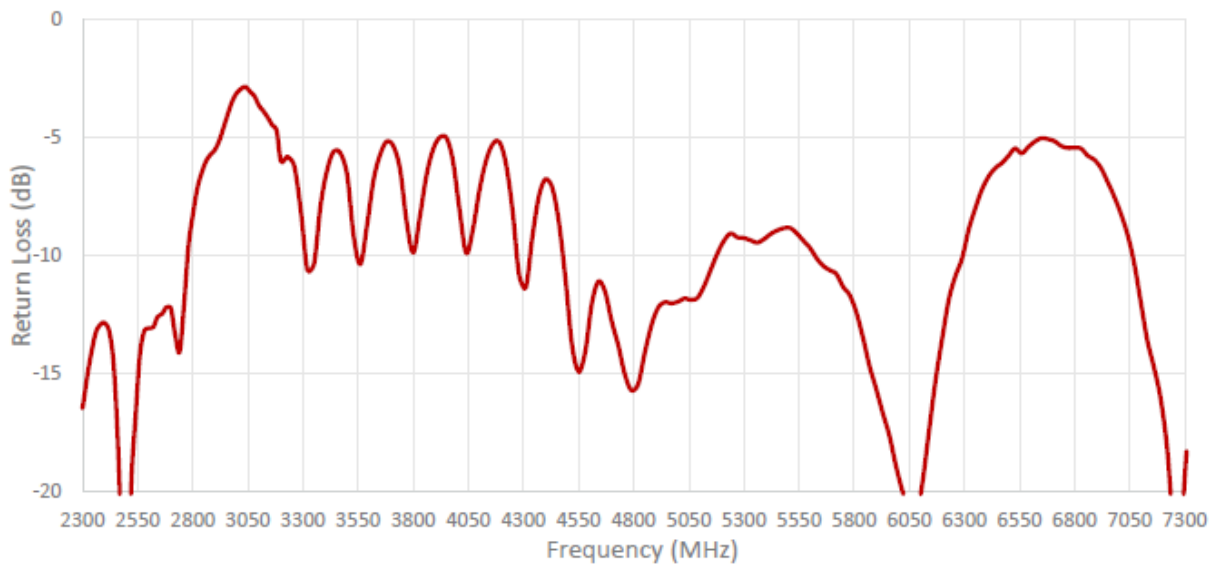
Straight position

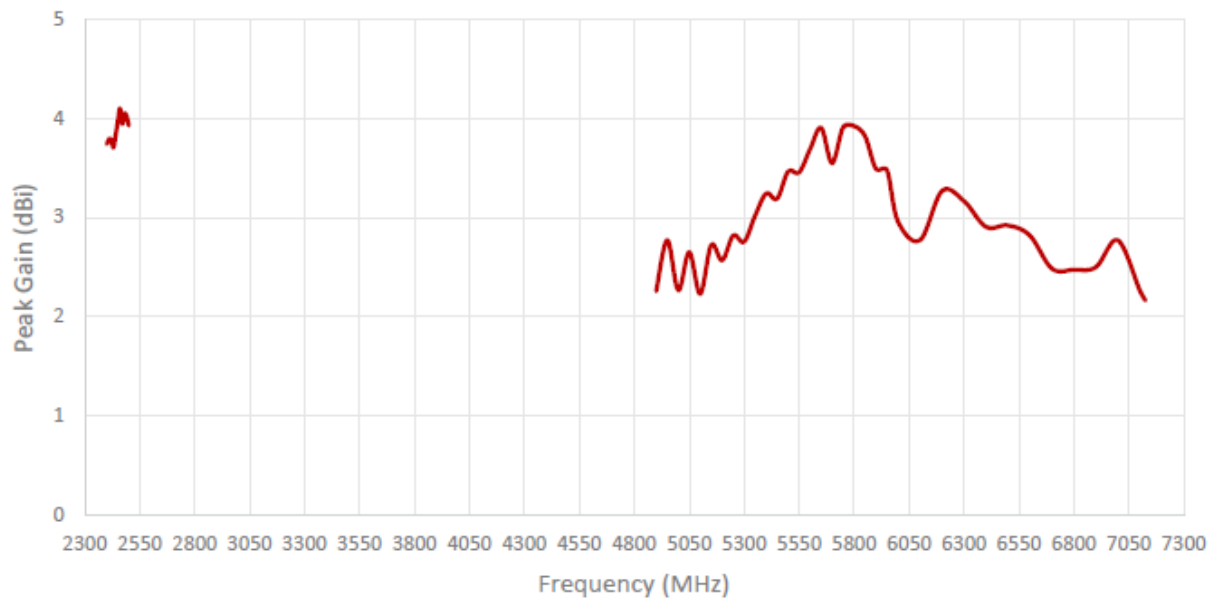
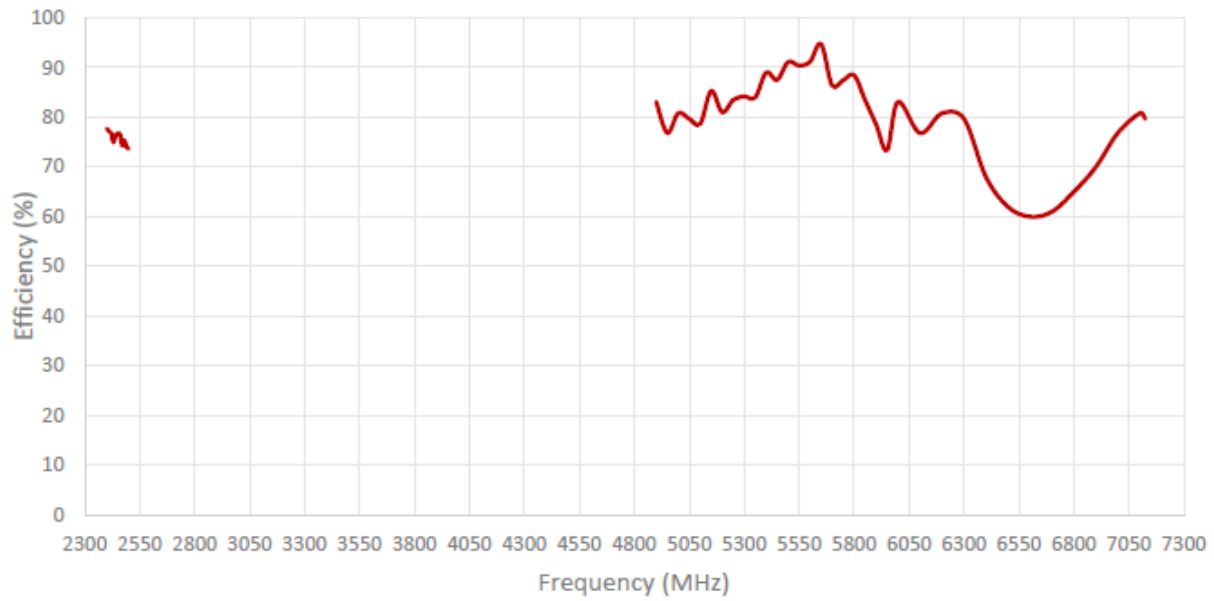


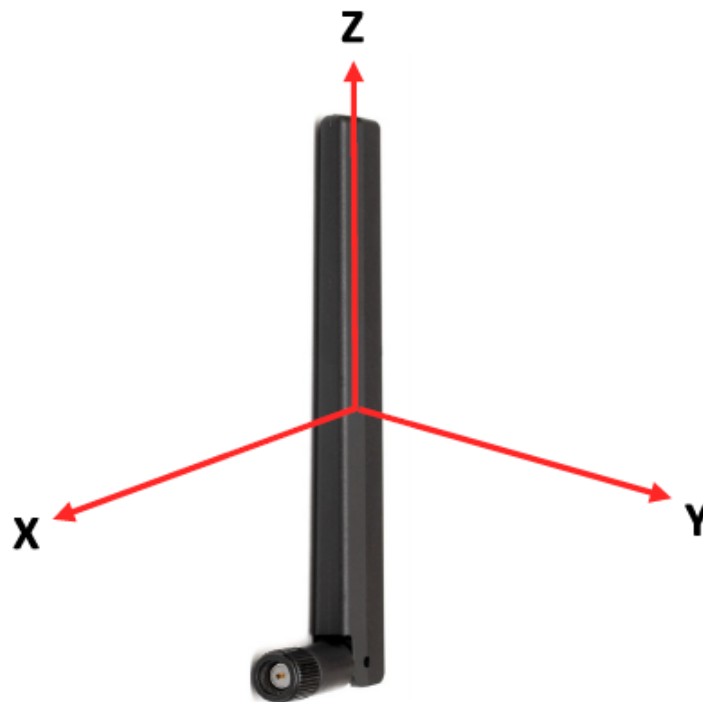
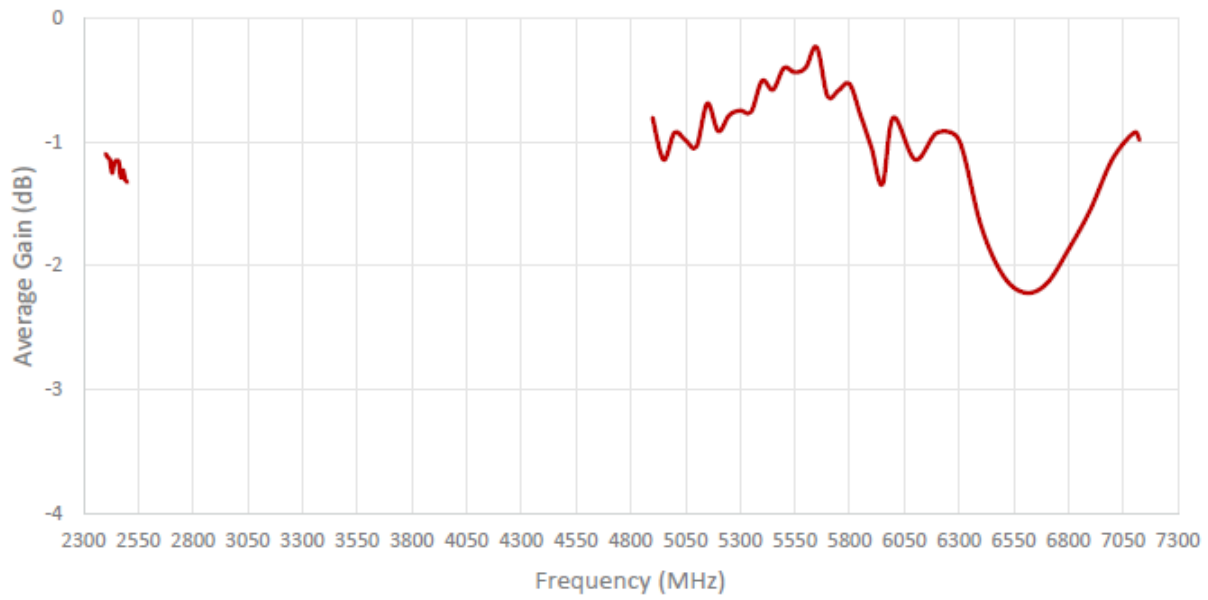
45° Angle position



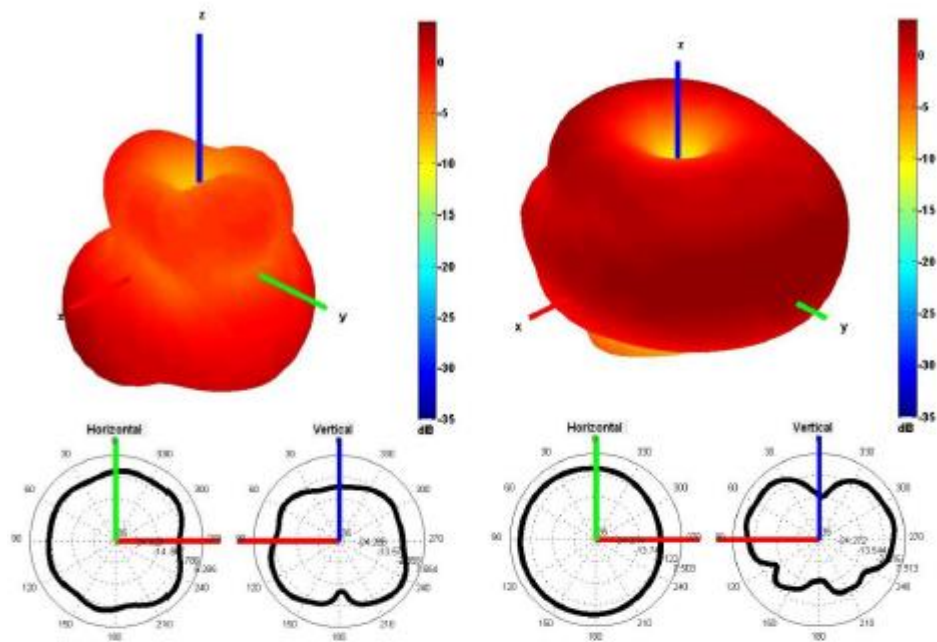
### 3. Antenna Parameters



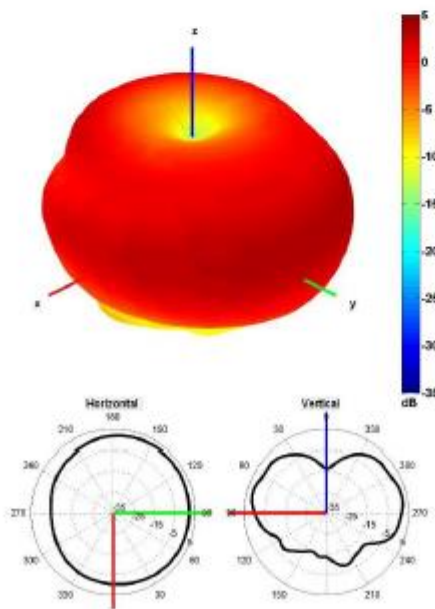




Radiation pattern reference



2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern