

Delta 37

Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna



Key Features

- Supports Wi-Fi 6e and Wi-Fi 7: 2.4G, 5G and 6G bands
- Supports 5G NR / 4G LTE / 3G UMTS Bands
- Supports UWB frequencies between 2.6 – 8 GHz (UWB Bands 1-8)
- Supports LTE Cat M, LTE Cat NB and NR Cat NB Bands
- Supports Bluetooth / Zigbee / IEEE 802.15.4 / ISM 2.4 GHz / ISM 5.8 GHz

General Description

The Delta 37 is a terminal mount swivel blade antenna, designed as a solution for Wi-Fi 6E applications, offering full support for Wi-Fi 6E and Wi-Fi 7 bands (2.4G, 5G, 6G) as well as comprehensive coverage of 5G New Radio (NR), 4G LTE, and 3G UMTS bands. Beyond these, it caters to Ultra-Wideband (UWB) frequencies from 2.6 GHz to 8 GHz, encompassing UWB Bands 1-8 for high bandwidth, low latency communication.

As an omnidirectional monopole antenna, the Delta 37 provides consistent reception in all directions, while its ground plane independence offers greater flexibility in mounting locations.

Terminated with either an SMA male or Reverse Polarity SMA Male connector, the swivel knuckle design allows the antenna to be positioned to take best advantage of the incoming signal, allowing straight, 45° and 90° positions along with 360° rotation.

Additional Considerations

- Omnidirectional monopole
- Adjustable mount allows positioning for best signal
- Ground Plane independent

5G New Radio	4G LTE	3G UMTS	LTE Cat M	LTE NB IoT
NR NB IoT	IEEE 802.15.4	ISM 2.4G	ISM 5.8G	WiFi 2.4G & 5G
WiFi 4 802.11n	WiFi 5 802.11ac	WiFi 6 802.11ax	WiFi 6e 802.11ax	WiFi 7 802.11be
WLAN 2400	WLAN 5800	BLE Bluetooth	ZB Zigbee	Z Wave
UWB Ultra-Wideband				

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Electrical Specifications

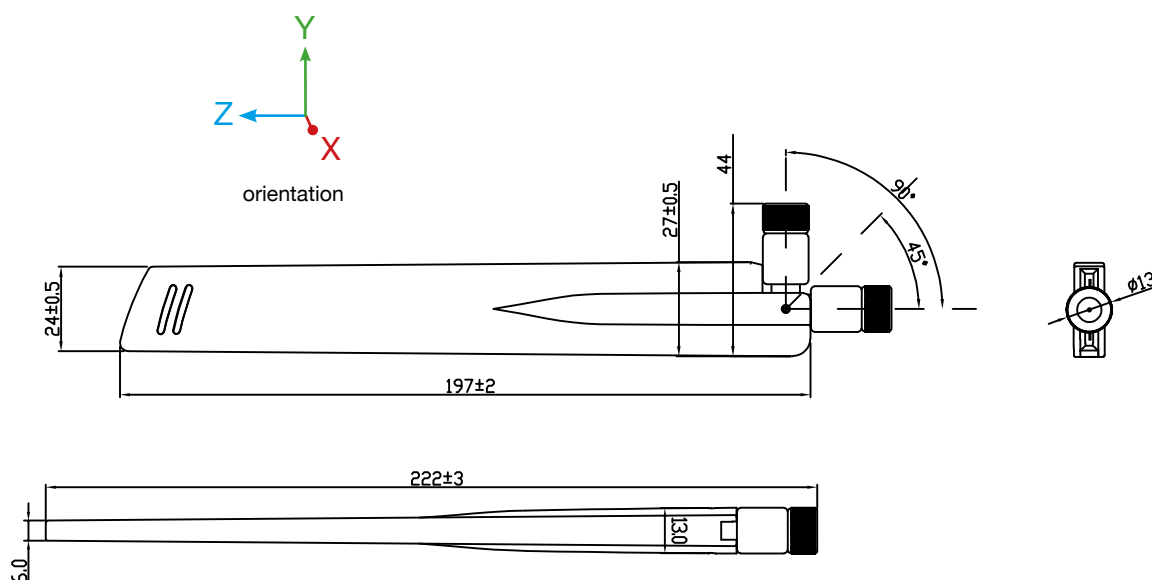
Impedance:	50 Ohm
Polarization:	Vertical
Max Input Power:	10 W
Ground plane independent:	Yes

Environmental Specifications

Operating Temperature range:	- 40 to + 70 °C
Storage Temperature range:	- 40 to + 80 °C

Mechanical Specifications

Dimensions:	222 mm Length
Weight:	28.4 g
Connector:	SMA Male / RP-SMA Male
Mounting method:	Direct Connect
Housing materials:	ABS/TPEE Black

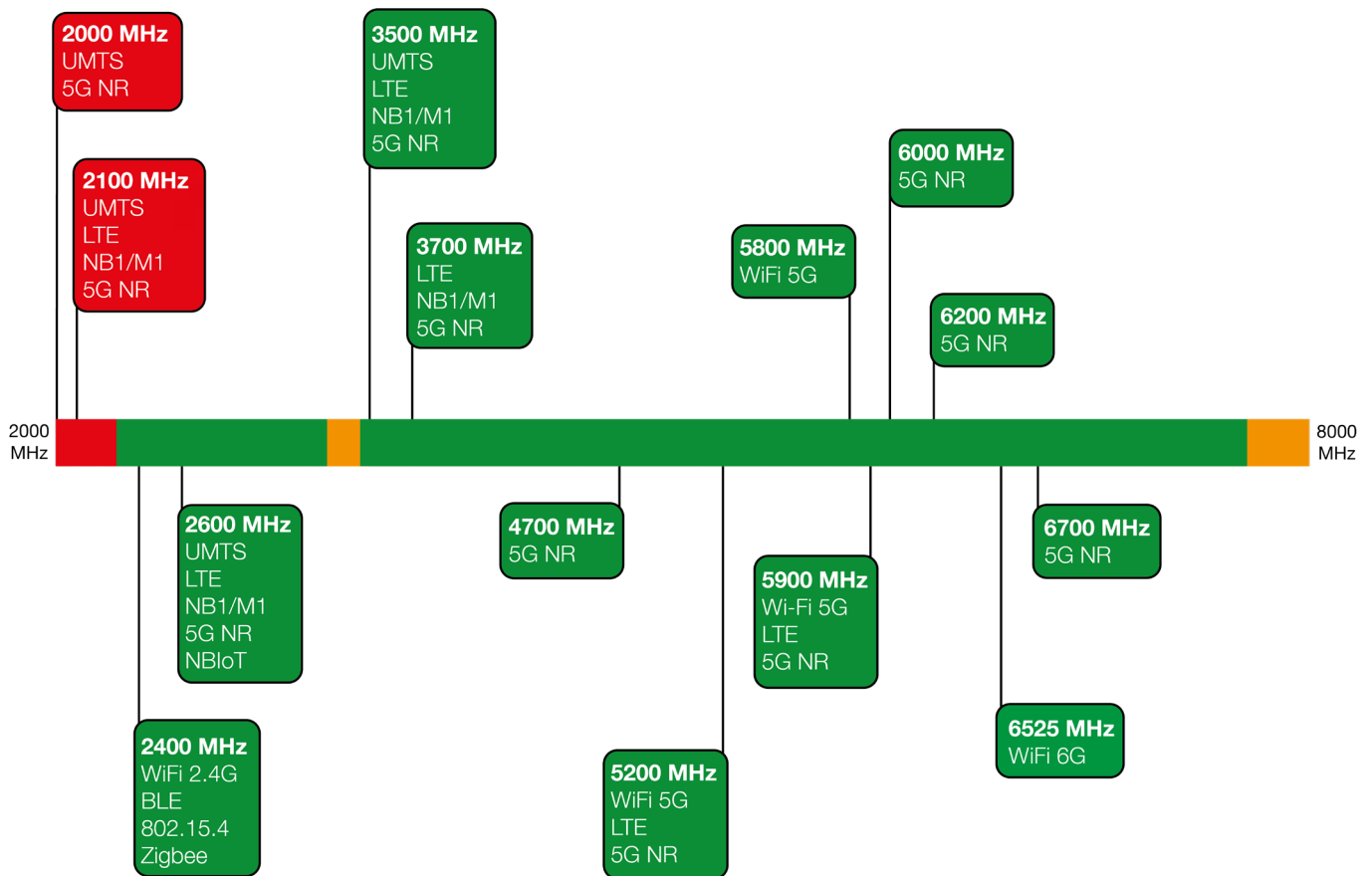




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Spectrum Coverage



● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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Usable Cellular Frequency Support (2000 MHz – 6700 MHz)

	2000	2100	2300	2400	2500	2600	3300	3500	3700	4700	5200	5900	6000	6200	6700
GSM Bands:															
UMTS Bands:						●		●							
LTE Bands:			●	●	●	●		●	●		●	●			
LTE Cat M Bands:			●		●	●		●	●						
LTE Cat NB Bands:					●	●		●	●						
5G NR Bands:			●	●	●	●		●	●	●	●	●	●	●	●
NR Cat NB Bands:					●	●									

Usable ISM Frequency Support (2450 MHz - 6525 MHz)

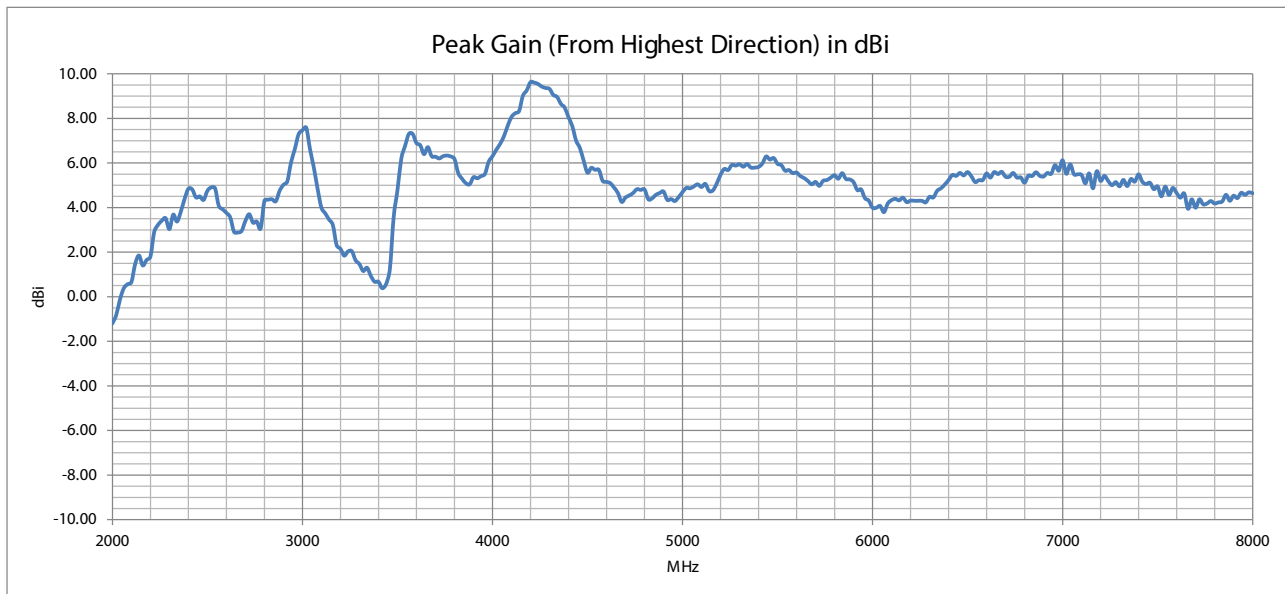
	2450	5800	6525
Bluetooth	●		
IEEE 802.15.4	●		
ISM 2.4G	●		
ISM 5.8G		●	
WiFi 2.4G	●		
WiFi 5G		●	
WiFi 6E			●
Zigbee	●		



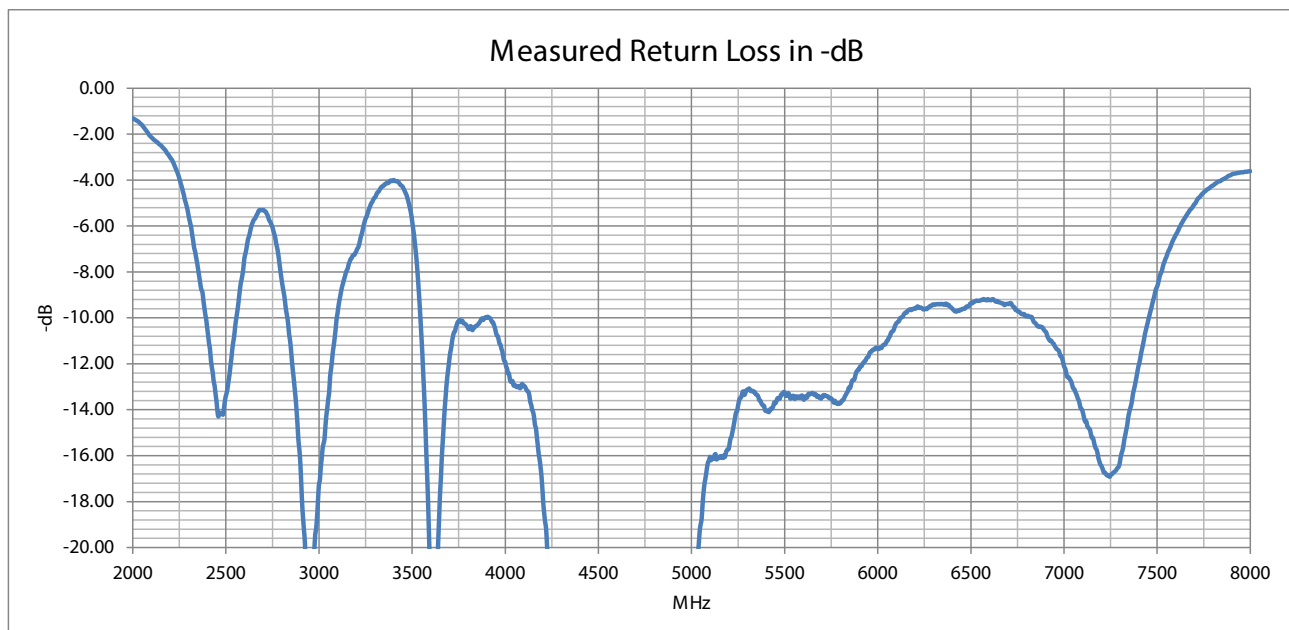
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Peak Gain vs. Frequency



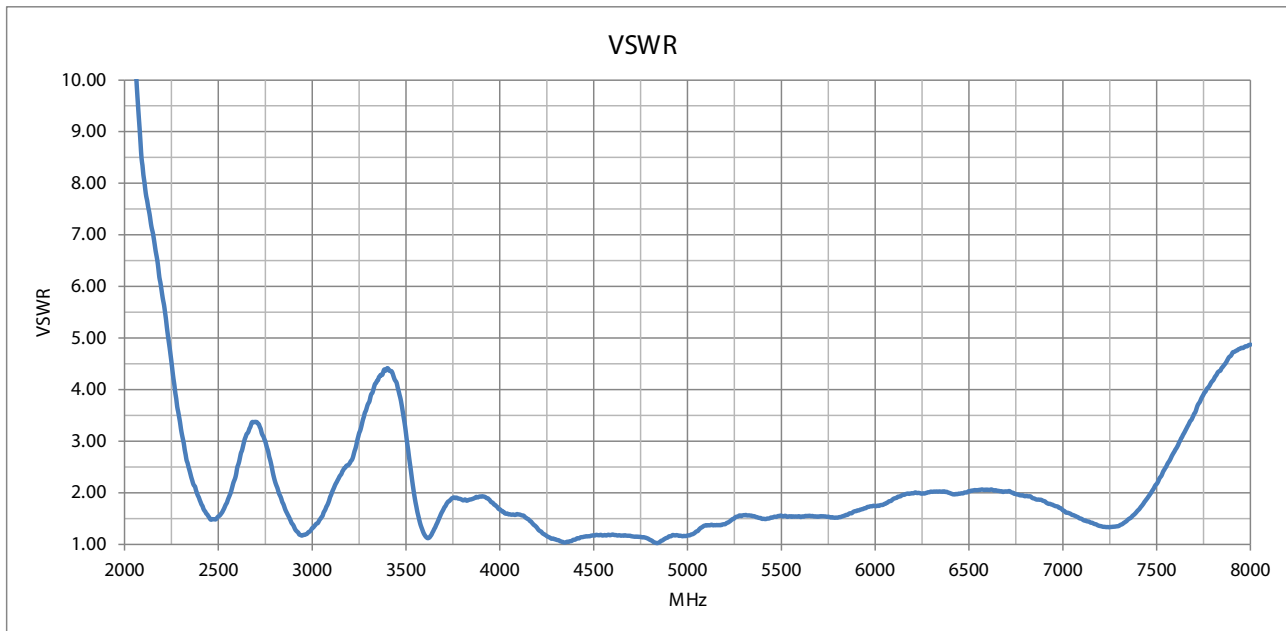
Return Loss



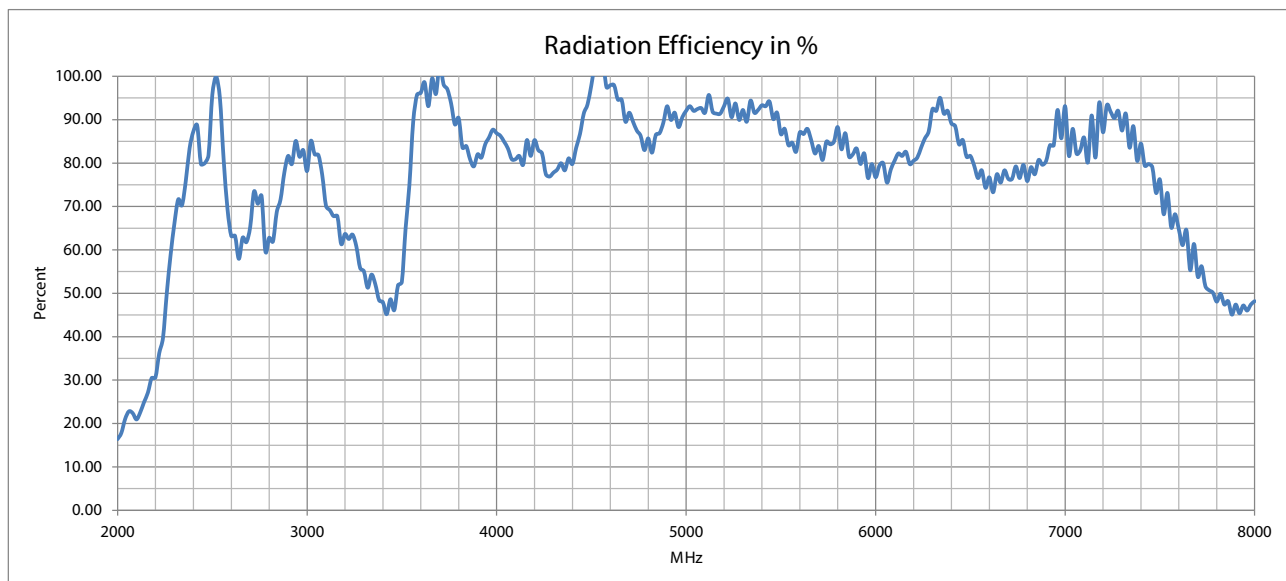
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VSWR



Radiation Efficiency





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Cellular Standards Band Support

GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	Cat M E-UTRA Band	Cat NB E-UTRA Band	NR (5G) Band	Cat NB NR (5G) Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
	7	7	7	7	n7	n7	2500 - 2570 MHz	2620 - 2690 MHz	92.06	61.32	2.06	3.37	●
	22	22					3410 - 3490 MHz	3510 - 3590 MHz	48.07	80.94	4.37	2.86	●
		30			n30		2305 - 2315 MHz	2350 - 2360 MHz	68.84	74.47	3.14	2.37	●
		34			n34		2010 - 2025 MHz	2010 - 2025 MHz	17.72	17.72	12.83	12.83	●
		38			n38		2570 - 2620 MHz	2570 - 2620 MHz	66.31	66.31	2.77	2.77	●
		40	40		n40		2300 - 2400 MHz	2300 - 2400 MHz	75.57	75.57	3.24	3.24	●
		41	41	41	n41	n41	2496 - 2690 MHz	2496 - 2690 MHz	74.38	74.38	3.37	3.37	●
		42	42	42			3400 - 3600 MHz	3400 - 3600 MHz	64.18	64.18	4.42	4.42	●
		43	43	43			3600 - 3800 MHz	3600 - 3800 MHz	96.14	96.14	1.91	1.91	●
		46			n46		5150 - 5925 MHz	5150 - 5925 MHz	87.92	87.92	1.68	1.68	●
		47			n47		5855 - 5925 MHz	5855 - 5925 MHz	81.89	81.89	1.68	1.68	●
		48	48	48	n48		3550 - 3700 MHz	3550 - 3700 MHz	95.78	95.78	1.82	1.82	●
		49					3550 - 3700 MHz	3550 - 3700 MHz	95.78	95.78	1.82	1.82	●
		52					3300 - 3400 MHz	3300 - 3400 MHz	51.53	51.53	4.42	4.42	●
		53			n53		2483.5 - 2495 MHz	2483.5 - 2495 MHz	88.26	88.26	1.53	1.53	●
		69					N/A	2570 - 2620 MHz	N/A	66.31	N/A	2.77	●
					n77		3300 - 4200 MHz	3300 - 4200 MHz	78.42	78.42	4.42	4.42	●
					n78		3300 - 3800 MHz	3300 - 3800 MHz	74.43	74.43	4.42	4.42	●
					n79		4400 - 5000 MHz	4400 - 5000 MHz	91.36	91.36	1.19	1.19	●
					n90	n90	2496 - 2690 MHz	2496 - 2690 MHz	74.38	74.38	3.37	3.37	●
					n95		2010 - 2025 MHz	N/A	17.72	N/A	12.83	N/A	●
					n96		5925 - 7125 MHz	5925 - 7125 MHz	81.99	81.99	2.06	2.06	●
					n97		2300 - 2400 MHz	N/A	75.57	N/A	3.24	N/A	●
					n102		5925 - 6425 MHz	5925 - 6425 MHz	83.69	83.69	2.03	2.03	●
					n104		6425 - 7125 MHz	6425 - 7125 MHz	80.77	80.77	2.06	2.06	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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ISM Standards Frequency Support

Application	Frequency Range	Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 2.4 GHz	2400 - 2500 MHz	84.38	1.86	4.84	●
Wi-Fi 2.4G	2401 - 2483 MHz	83.21	1.85	4.84	●
Wi-Fi 2.4G (USA)	2401 - 2473 MHz	83.38	1.85	4.84	●
Wi-Fi 2.4G (Japan)	2401 - 2495 MHz	83.83	1.85	4.84	●
Wi-Fi 5G (all channels)	5150 - 5990 MHz	87.26	1.75	6.29	●
Wi-Fi 5G (Ch 32-48)	5150 - 5250 MHz	92.36	1.51	5.80	●
Wi-Fi 5G (Ch 32-64)	5150 - 5330 MHz	91.95	1.57	5.94	●
Wi-Fi 5G (Ch 32-161)	5150 - 5815 MHz	88.74	1.57	6.29	●
Wi-Fi 5G (Ch 32-173)	5150 - 5875 MHz	88.33	1.61	6.29	●
Wi-Fi 6E (Ch 1-93)	5925 - 6425 MHz	83.69	2.03	5.46	●
Wi-Fi 6E (all channels)	5925 - 7125 MHz	81.99	2.06	6.12	●
ISM 5.8 GHz	5725 - 5875 MHz	84.61	1.61	5.54	●
UWB band 1	3168 - 3696 MHz	66.99	4.42	7.30	●
UWB band 2	3696 - 4224 MHz	85.76	1.93	9.62	●
UWB band 3	4224 - 4752 MHz	88.89	1.23	9.59	●
UWB band 4	4752 - 5280 MHz	90.41	1.56	5.91	●
UWB band 5	5280 - 5808 MHz	87.90	1.57	6.29	●
UWB band 6	5808 - 6336 MHz	82.31	2.02	5.54	●
UWB band 7	6336 - 6864 MHz	80.58	2.06	5.60	●
UWB band 8	6864 - 7392 MHz	86.58	1.87	6.12	●
UWB band 9	7392 - 7920 MHz	61.23	4.75	5.49	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable

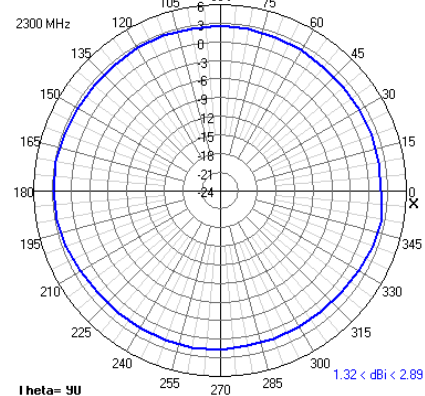
NOTE: For each frequency band, Siretta provides a traffic light indication to show the suitability of the antenna for use at that frequency band. Determination of exactly what makes an antenna good or bad at any frequency is subjective.

The view presented is that of Siretta's engineering team having taken into account the efficiency and VSWR measurements. The end user is advised to use their own criteria and/or testing to confirm suitability.

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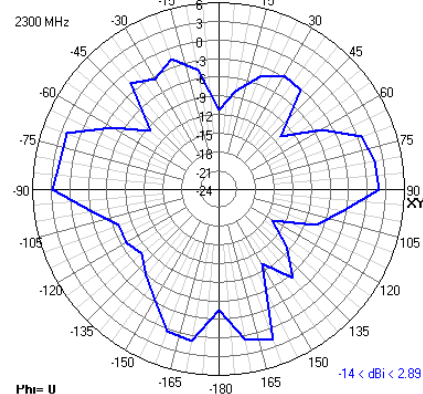
2300 MHz XY

Ver-gain [dBi]



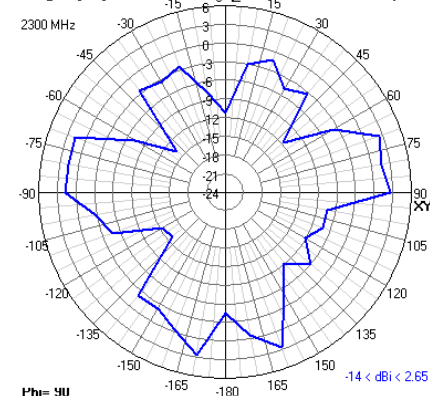
XZ

Ver-gain [dBi]



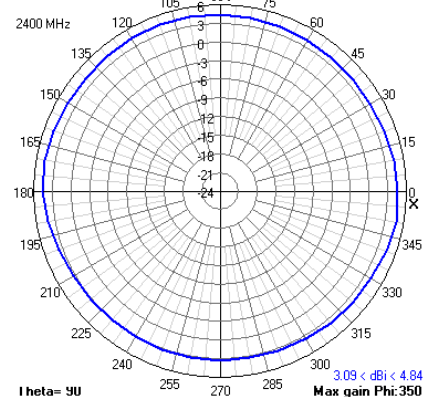
YZ

Ver-gain [dBi]

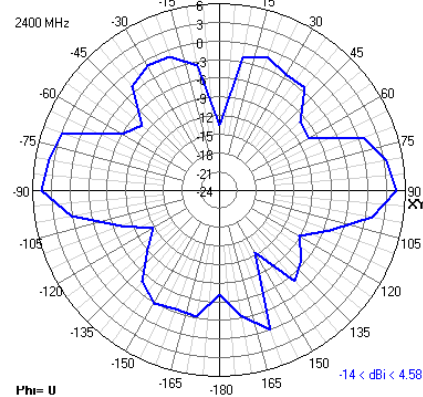


2400 MHz XY

Ver-gain [dBi]

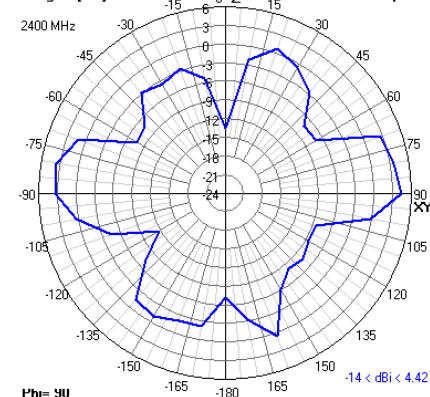
**XZ**

Ver-gain [dBi]



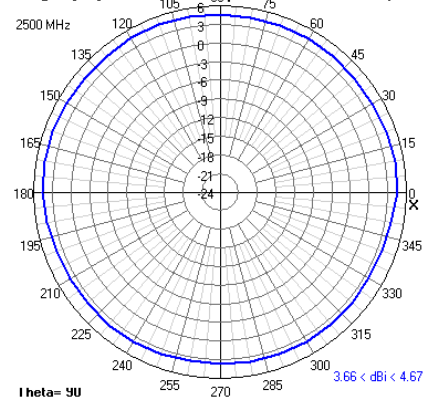
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Ver-gain [dBi]



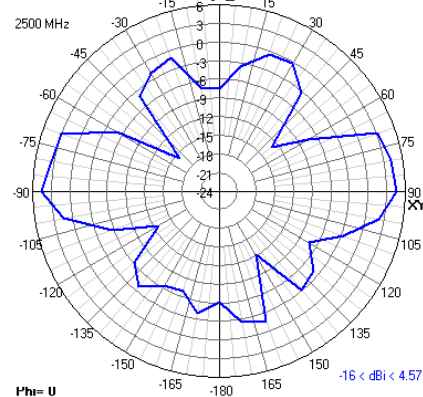
2500 MHz XY

Ver-gain [dBi]



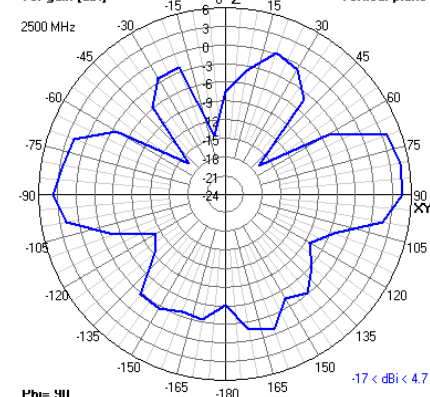
XZ

Ver-gain [dBi]



YZ

Ver-gain [dBi]



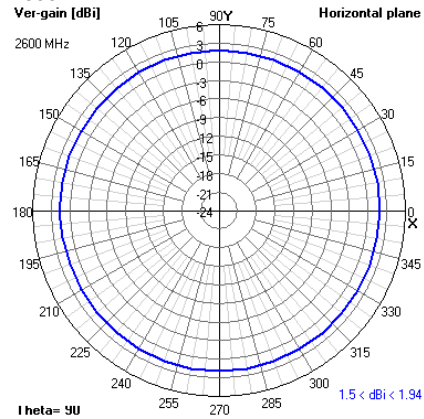


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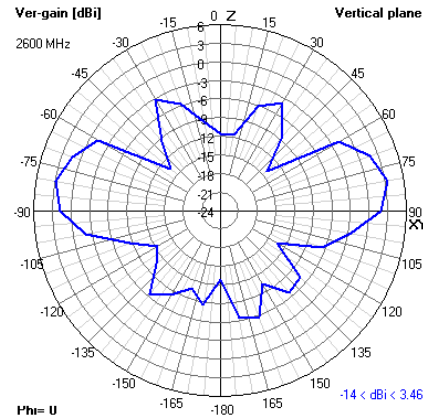
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2D Radiation Plots

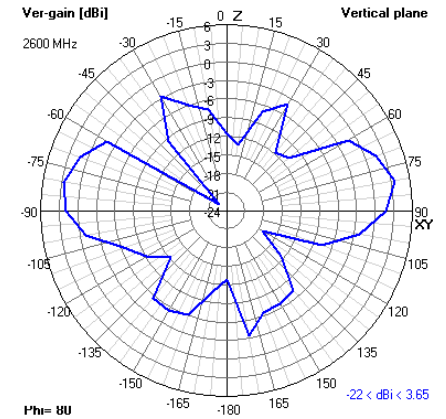
2600 MHz XY



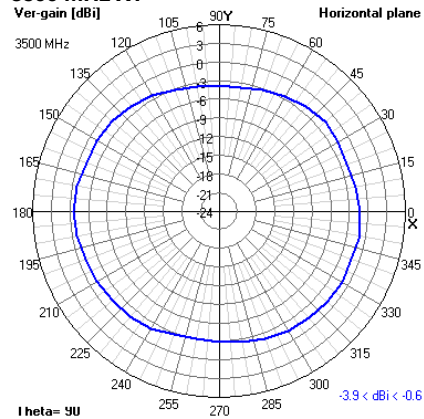
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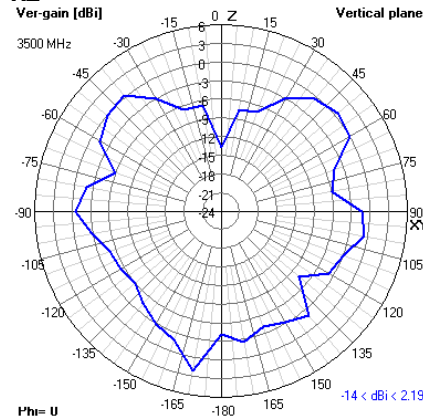
YZ



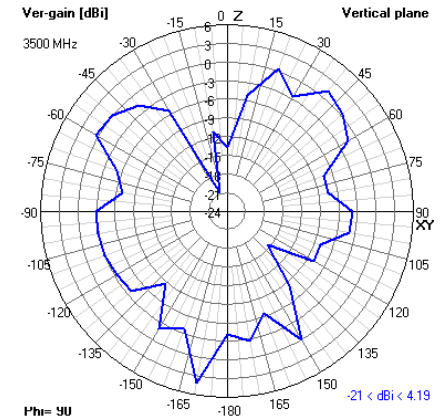
3500 MHz XY



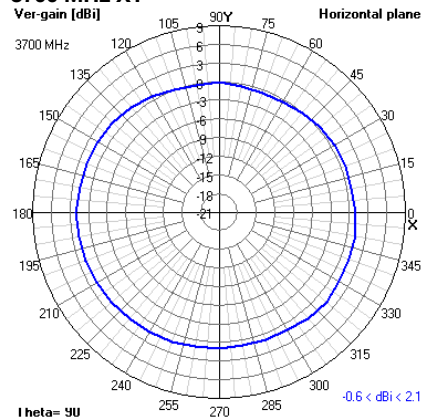
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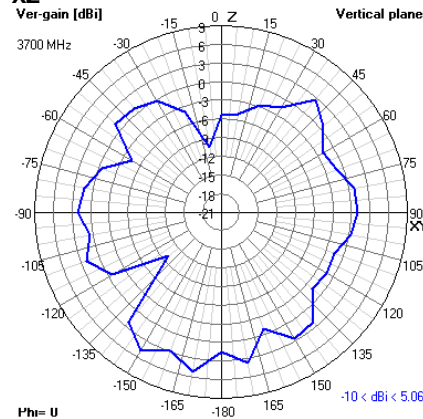
YZ



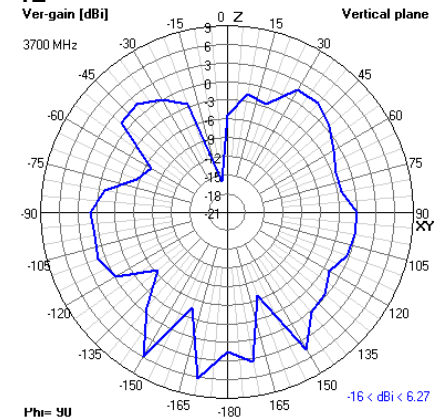
3700 MHz XY



XZ



YZ



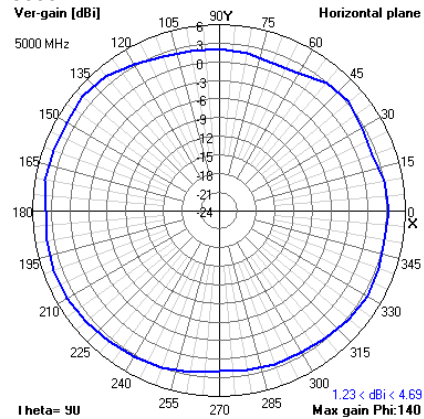


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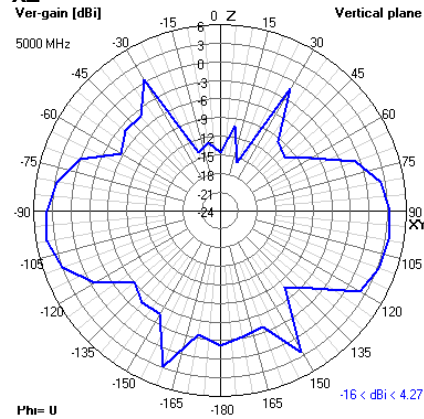
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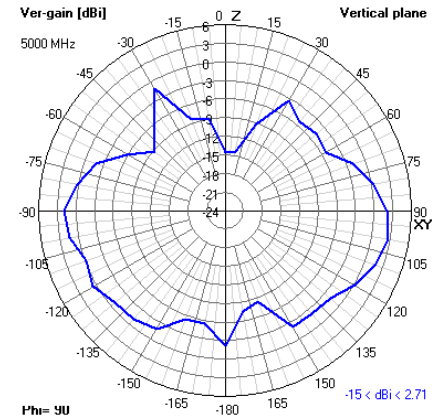
5000 MHz XY



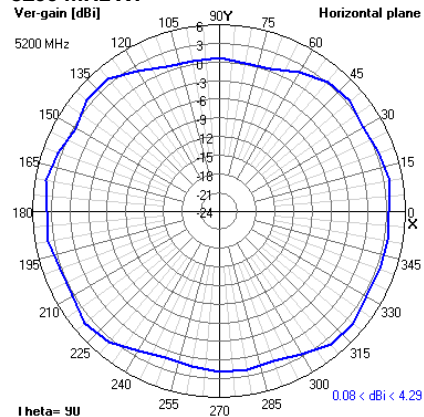
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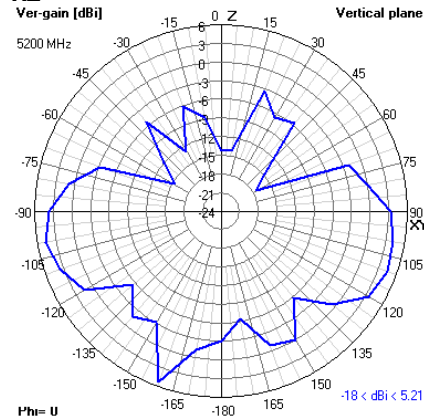
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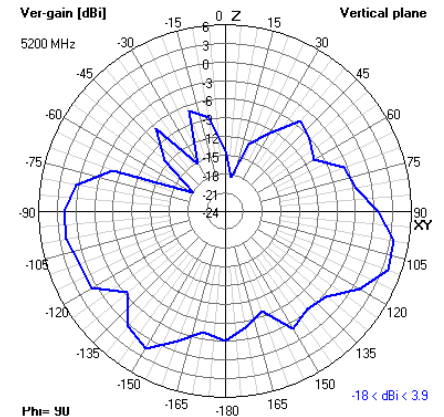
5200 MHz XY



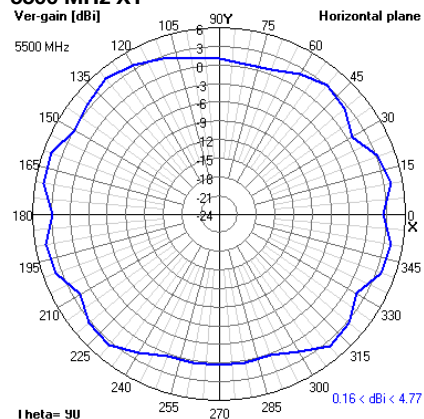
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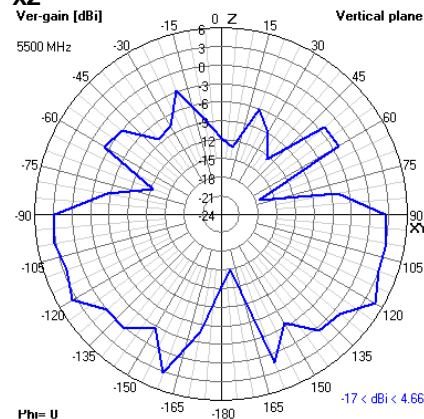
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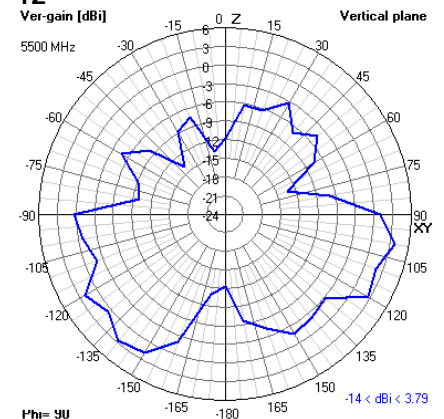
5500 MHz XY



XZ



YZ



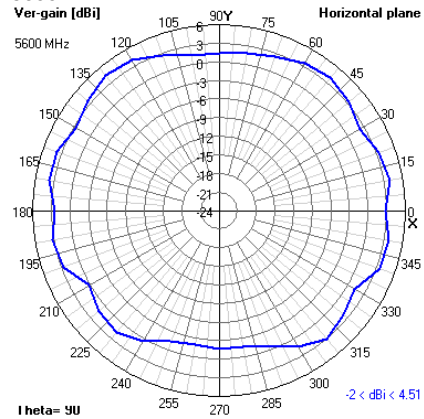


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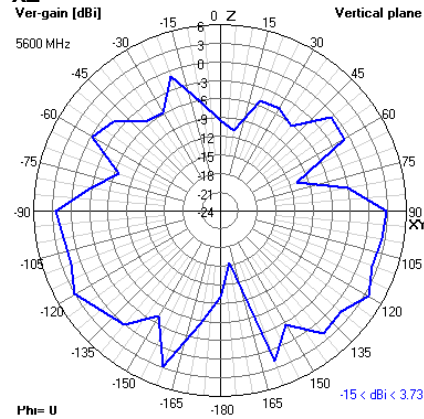
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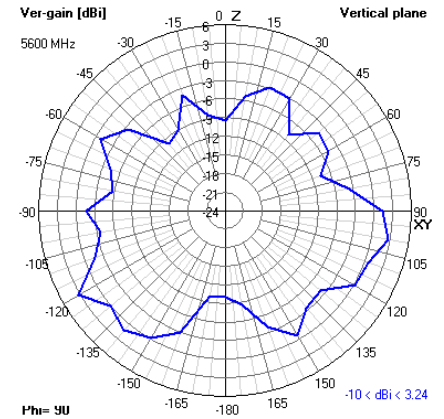
5600 MHz XY



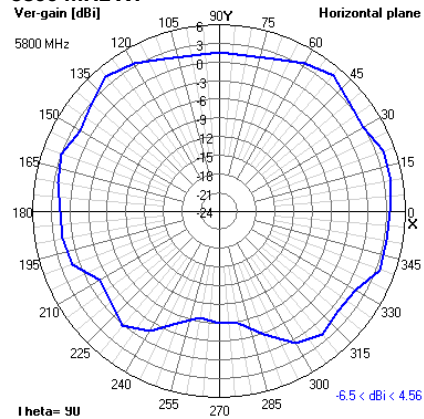
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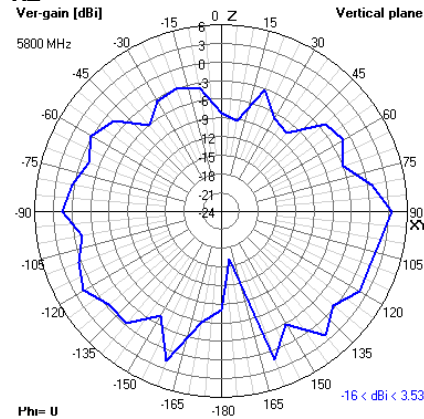
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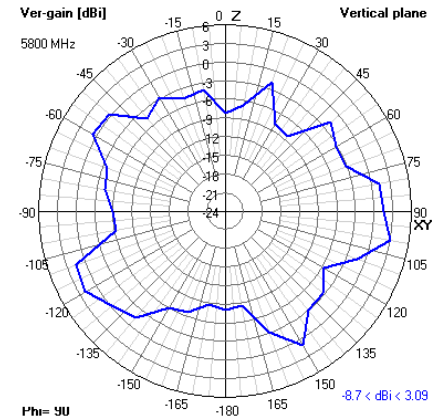
5800 MHz XY



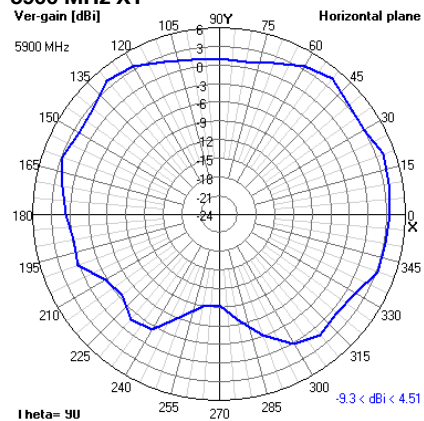
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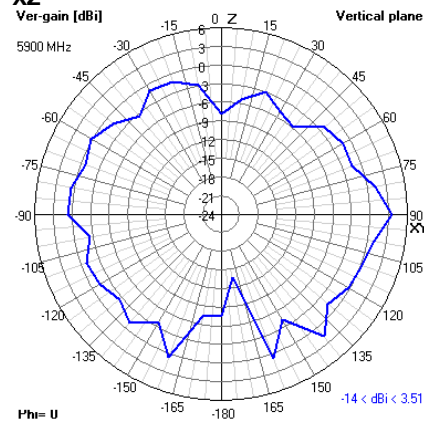
YZ



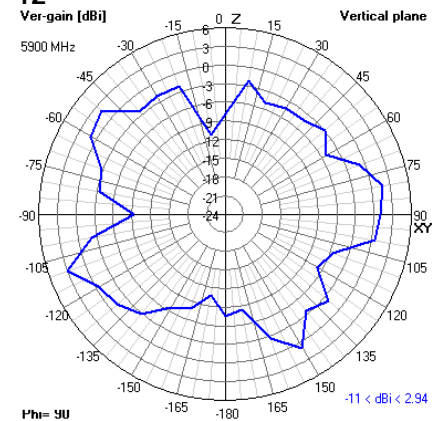
5900 MHz XY



XZ



YZ



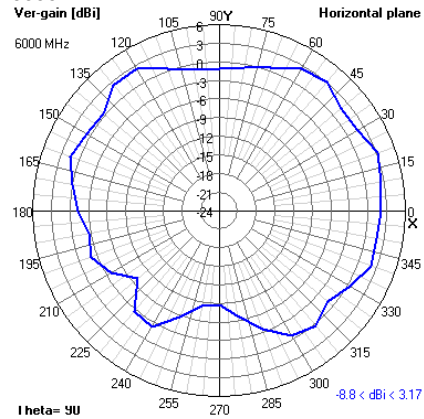


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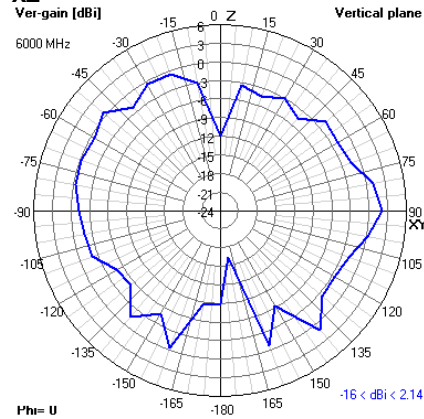
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2D Radiation Plots

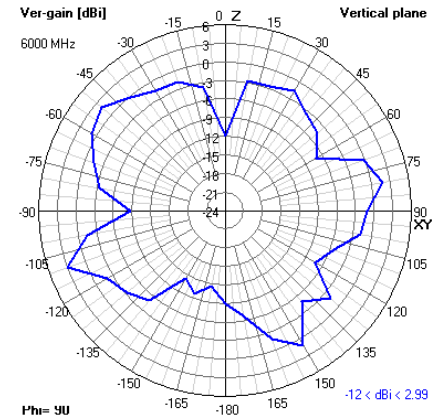
6000 MHz XY



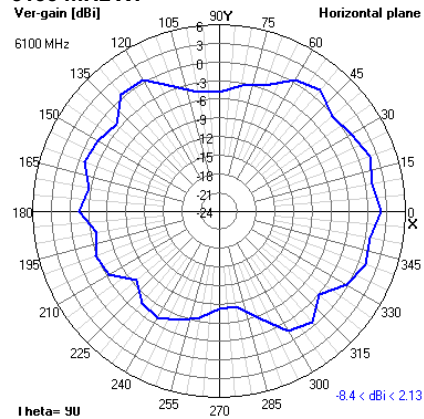
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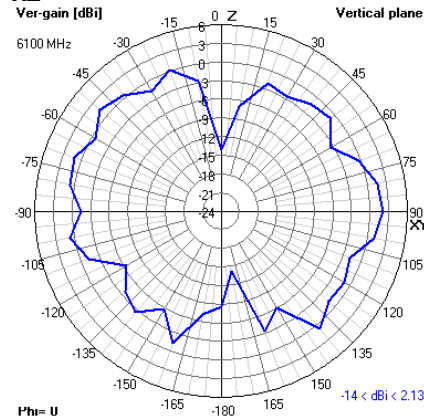
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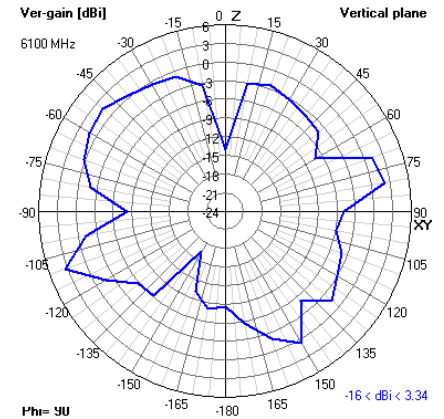
6100 MHz XY



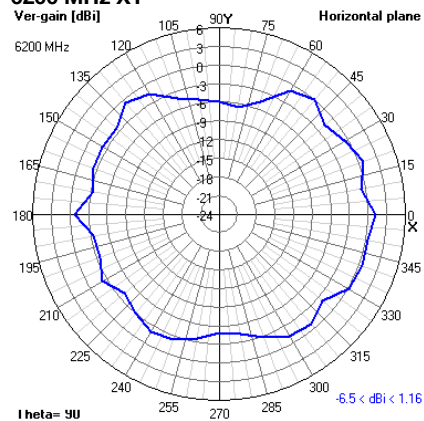
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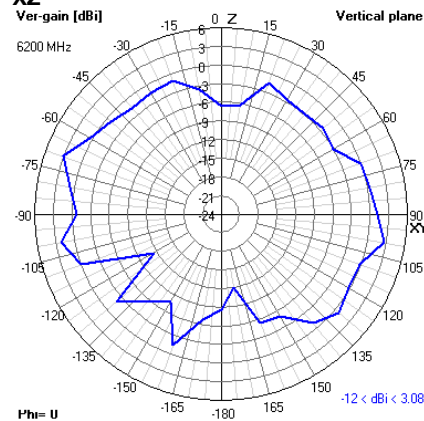
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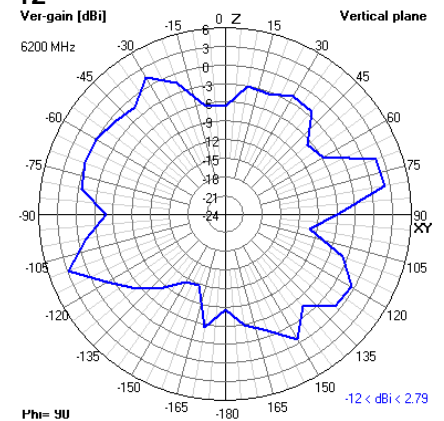
6200 MHz XY



XZ



YZ



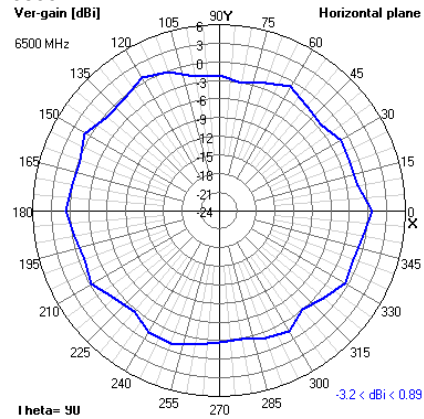


Delta 37

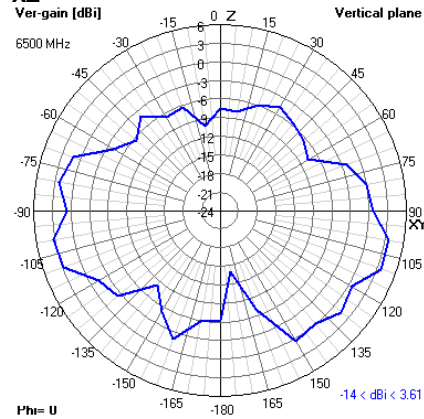
Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna

2D Radiation Plots

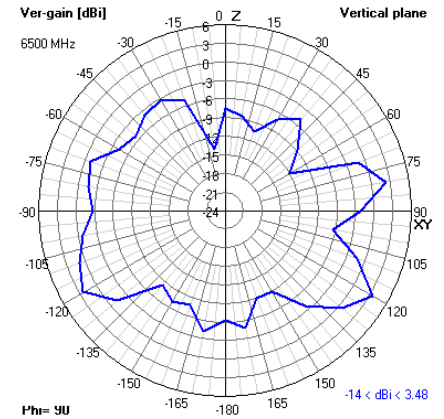
6500 MHz XY



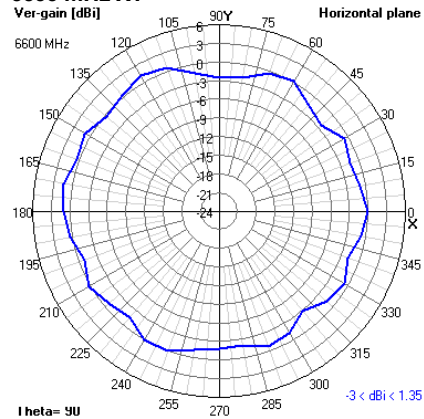
XZ



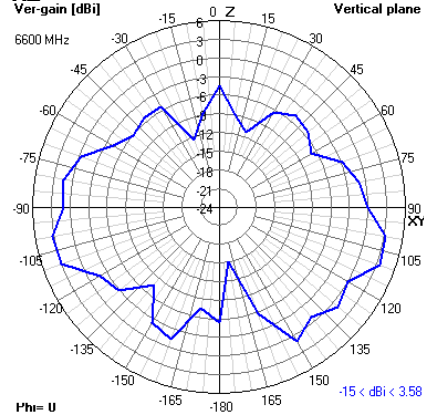
YZ



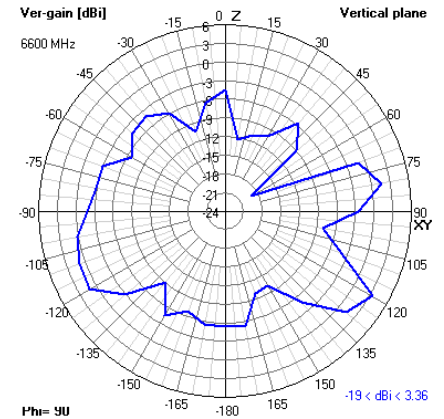
6600 MHz XY



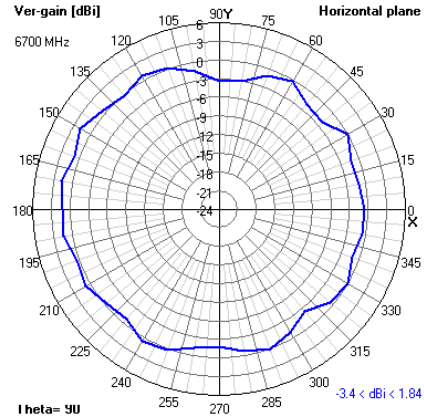
XZ



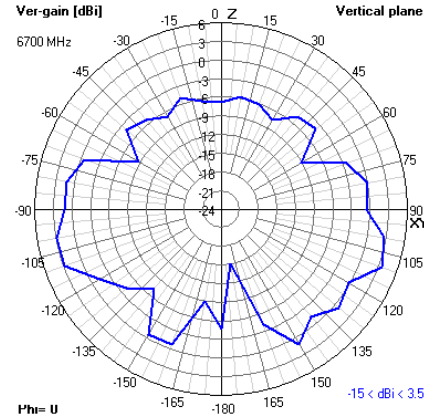
YZ



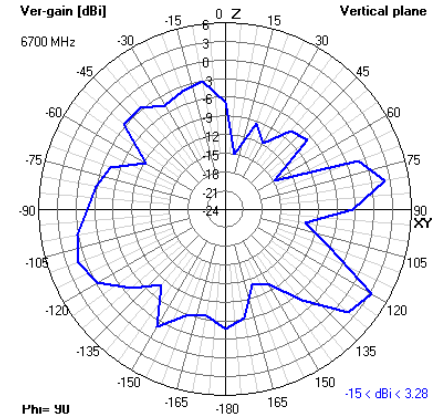
6700 MHz XY



XZ



YZ



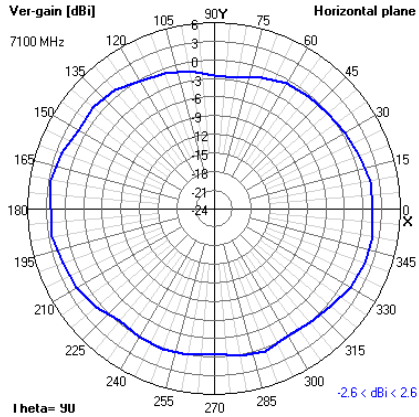


Delta 37

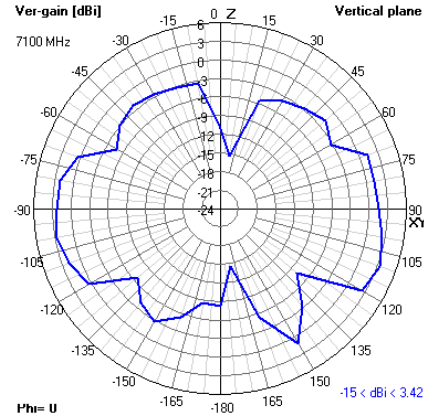
Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna

2D Radiation Plots

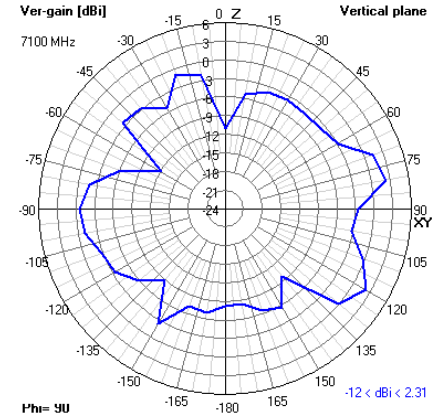
7100 MHz XY



XZ



YZ



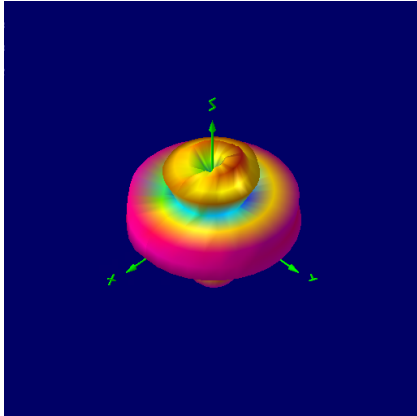


Delta 37

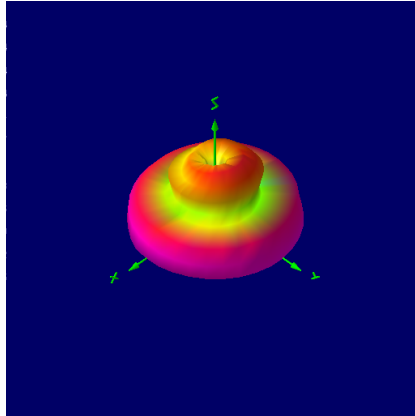
Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna

3D Radiation Plots

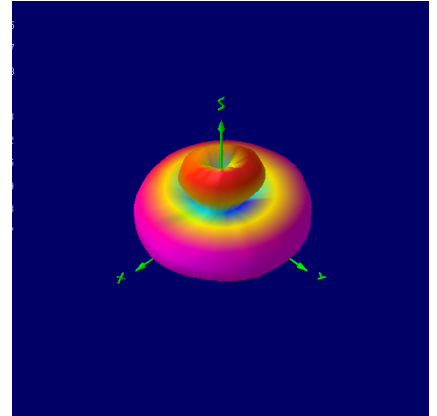
2300 MHz



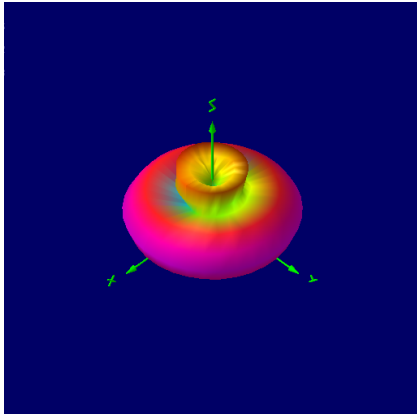
2400 MHz



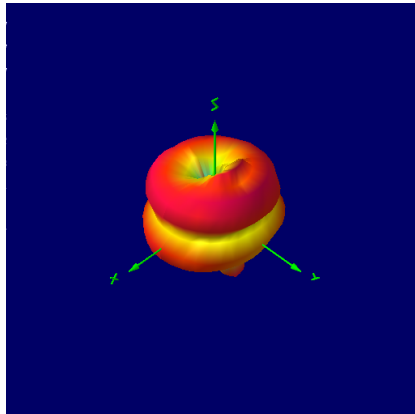
2500 MHz



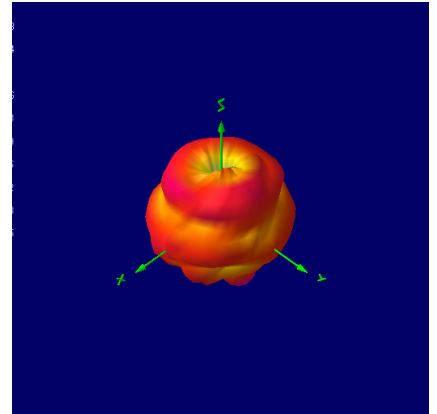
2600 MHz



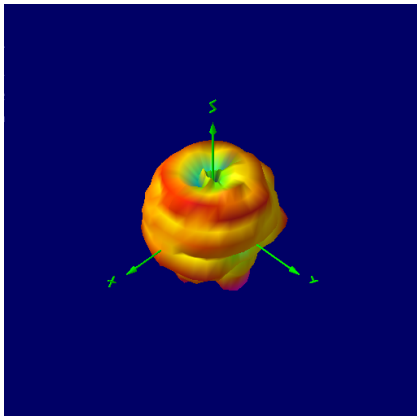
3500 MHz



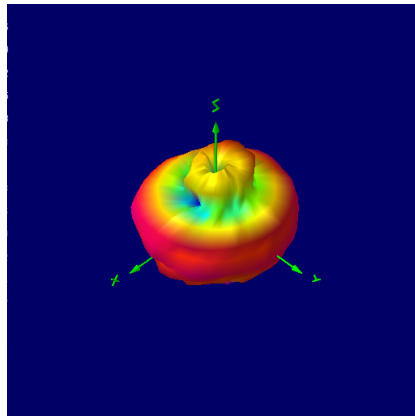
3700 MHz



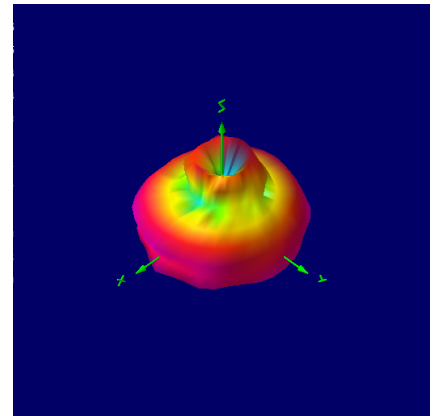
4000 MHz



4500 MHz



4700 MHz



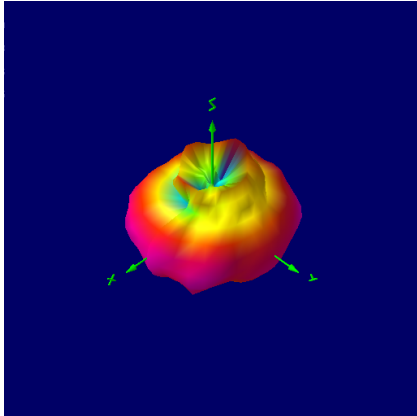


Delta 37

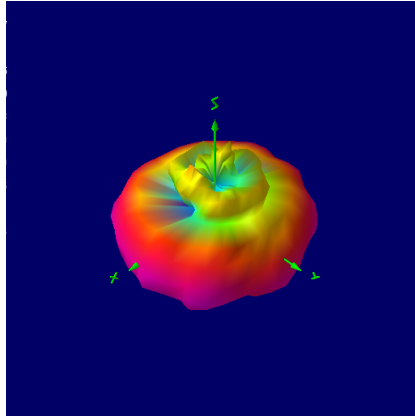
Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna

3D Radiation Plots

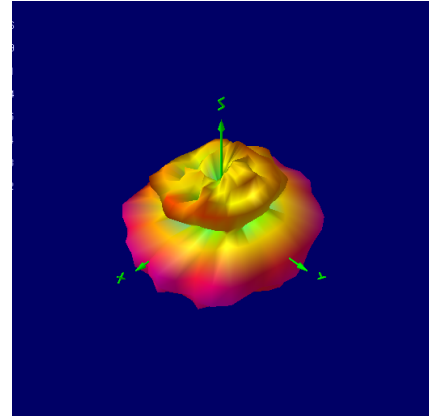
5000 MHz



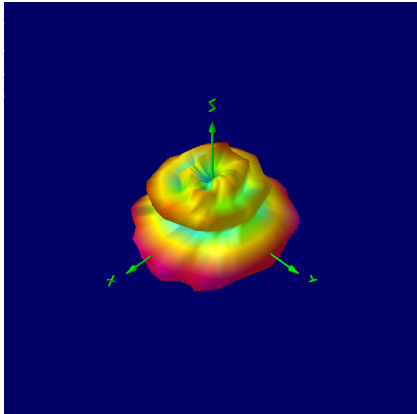
5200 MHz



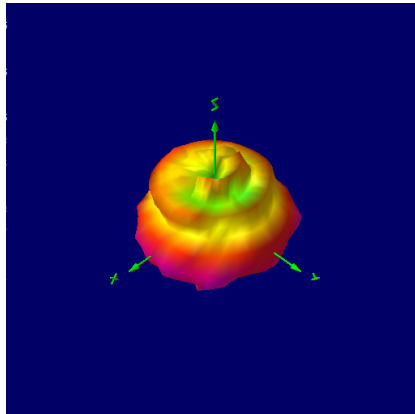
5500 MHz



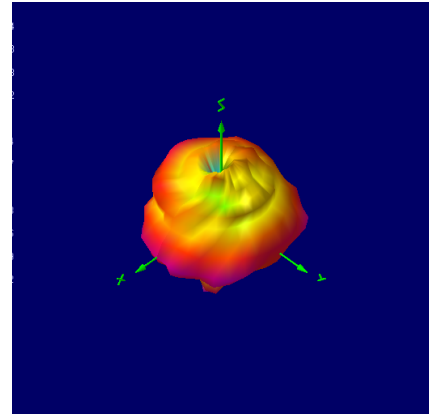
5600 MHz



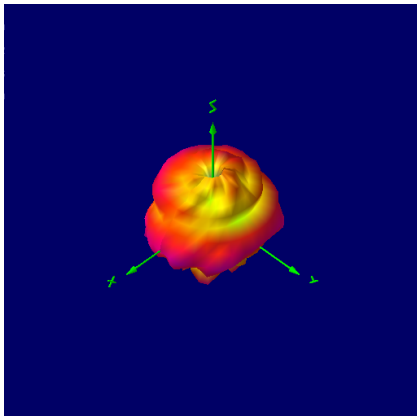
5800 MHz



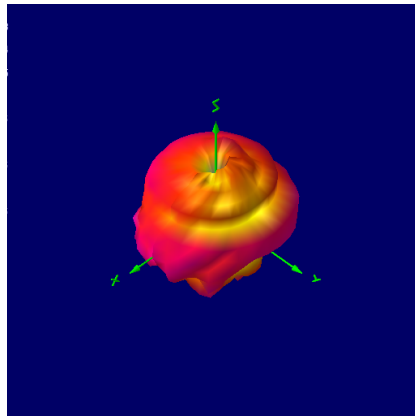
5900 MHz



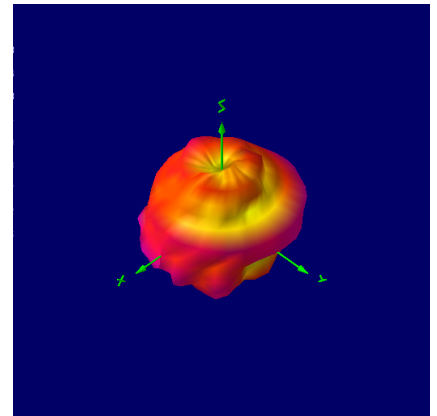
6000 MHz



6100 MHz



6200 MHz

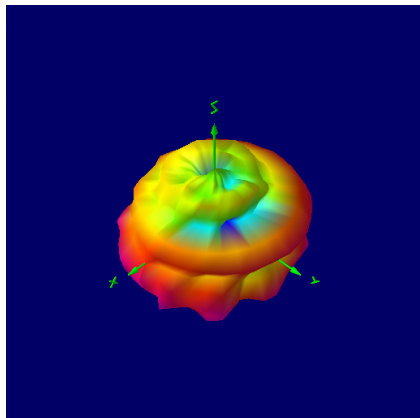


Delta 37

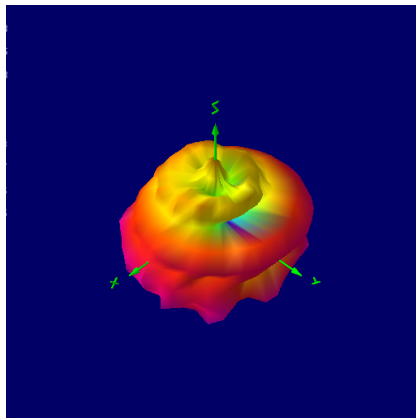
Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna

3D Radiation Plots

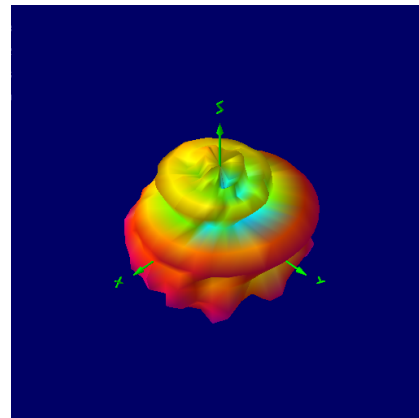
6500 MHz



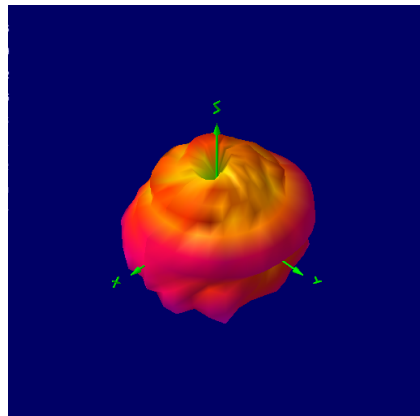
6600 MHz



6700 MHz



7100 MHz



NOTE: All 3D radiation plots are shown with Theta = 45 and Phi = 45.

Ordering Details:

Part Number	Description
DELTA37/SMAM/RP/S/36	Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna RP-SMA Male Connector
DELTA37/SMAM/S/36	Wi-Fi 6e / Wi-Fi 7 and 5G New Radio 222 mm Hinged Blade Antenna SMA Male Connector