



Tango 58

5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz



Key Features

- Supports 5G NR / 4G LTE / 3G UMTS bands
- Supports LTE Cat M, LTE Cat NB
- Dual-band Wi-Fi (2.4G & 5G) and Wi-Fi 6e/7 ready
- ISM 2.4 GHz / ISM 5.8 GHz compatible
- LoRa support for 868 MHz and 915 MHz bands
- Omni-directional pattern for optimal ceiling mount performance
- Through-hole mounting design for secure installation
- Supports ISM, public, and private wireless networks

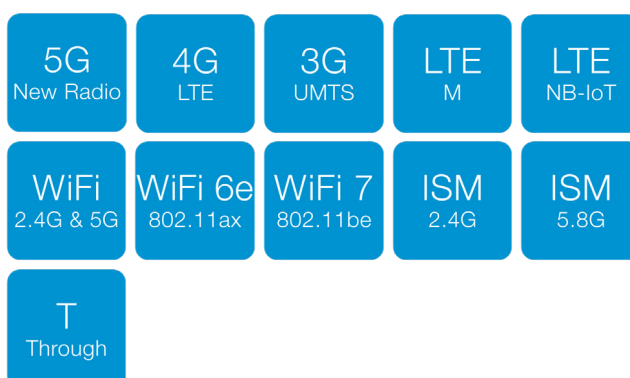
General Description

The Tango 58 is a wideband ceiling-mount antenna designed to cover a broad frequency range from 600 to 8000 MHz, making it suitable for modern cellular and Wi-Fi applications. Ideal for indoor or in-building installations, the Tango 58's low-profile, omni-directional design supports a variety of applications, from high-density environments to IoT connectivity hubs. It is compatible with key wireless standards, including 5G, 4G LTE, and 3G UMTS, and its support for dual-band Wi-Fi and Wi-Fi 6E/7 ensures future-proof operation. The antenna's robust construction enables straightforward installation on ceilings, offering reliable signal performance across all supported bands.

The Tango 58 comes standard with an N-Type female connector and is available in white or black housing to blend with various interior designs. Customisations, including alternative connectors and cable length options, are available upon request to meet unique installation requirements.

Additional Considerations

- Commercial and residential ceiling-mounted coverage
- IoT connectivity hubs in smart buildings
- Retail and public spaces requiring broad network access
- Network extenders and repeaters for in-building coverage
- High-density environments with multiple wireless standards



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Electrical Specifications

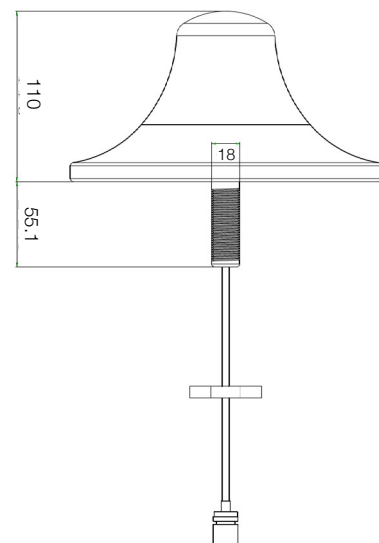
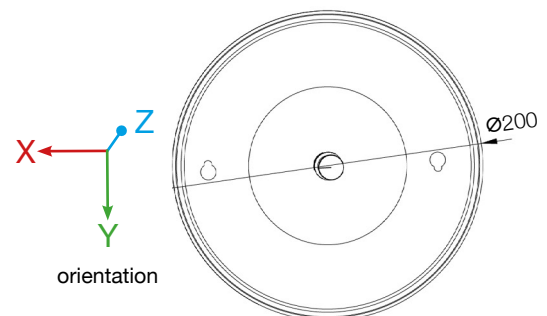
Impedance:	50 Ohm
Polarisation:	Vertical
Max input power:	50 W
Ground plane independent:	Yes

Environmental Specifications

Operating temperature range:	-30 °C to +70 °C
Storage temperature range:	-40 °C to +85 °C

Mechanical Specifications

Dimensions:	Ø 203 mm x 115 mm height
Weight:	0.3 kg (including mount kit)
Connector:	N-Type Female
Mounting method:	Through-hole
Housing materials:	ABS, White or Black

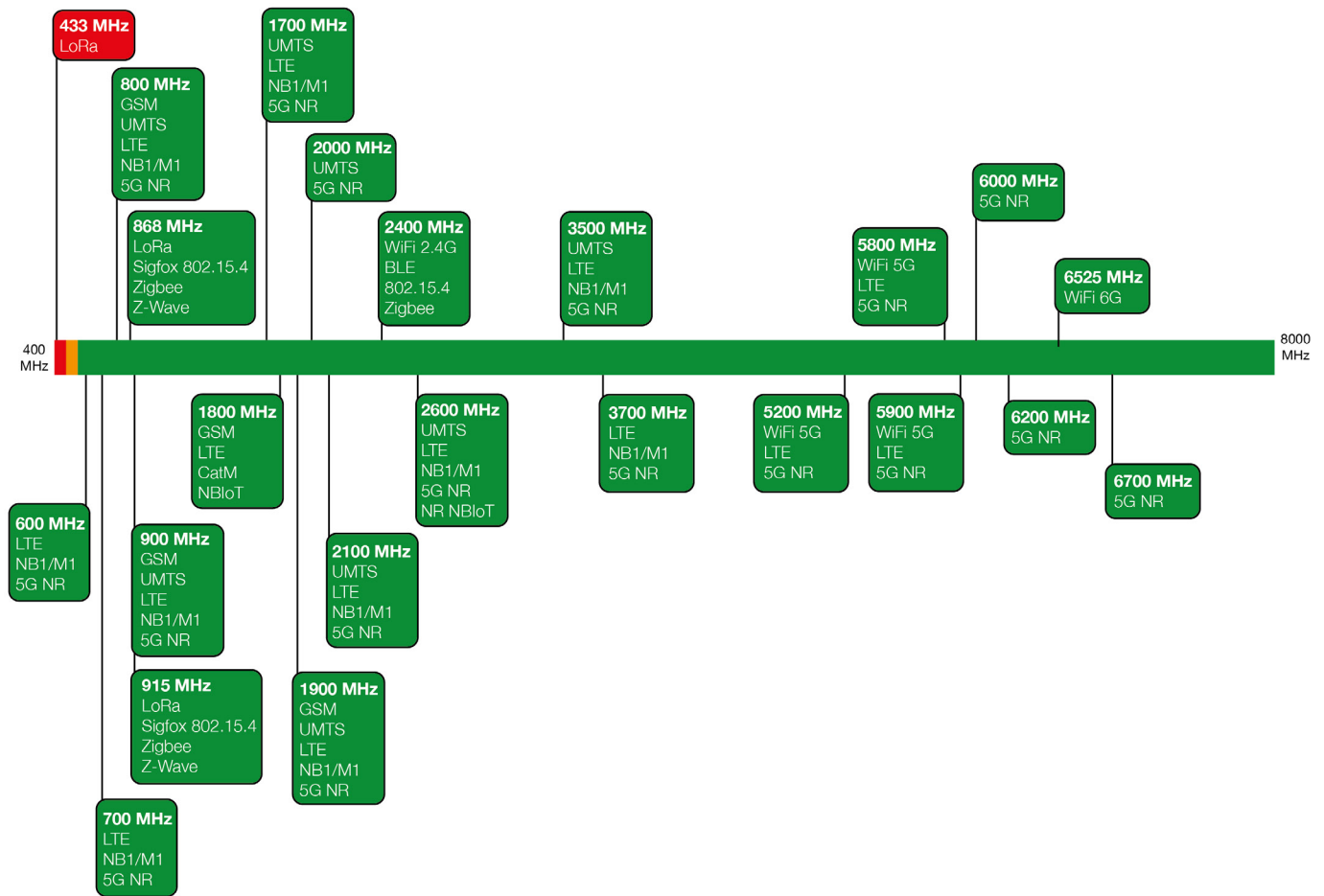




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Spectrum Coverage



● Suitable band

● Adequate band in good signal conditions

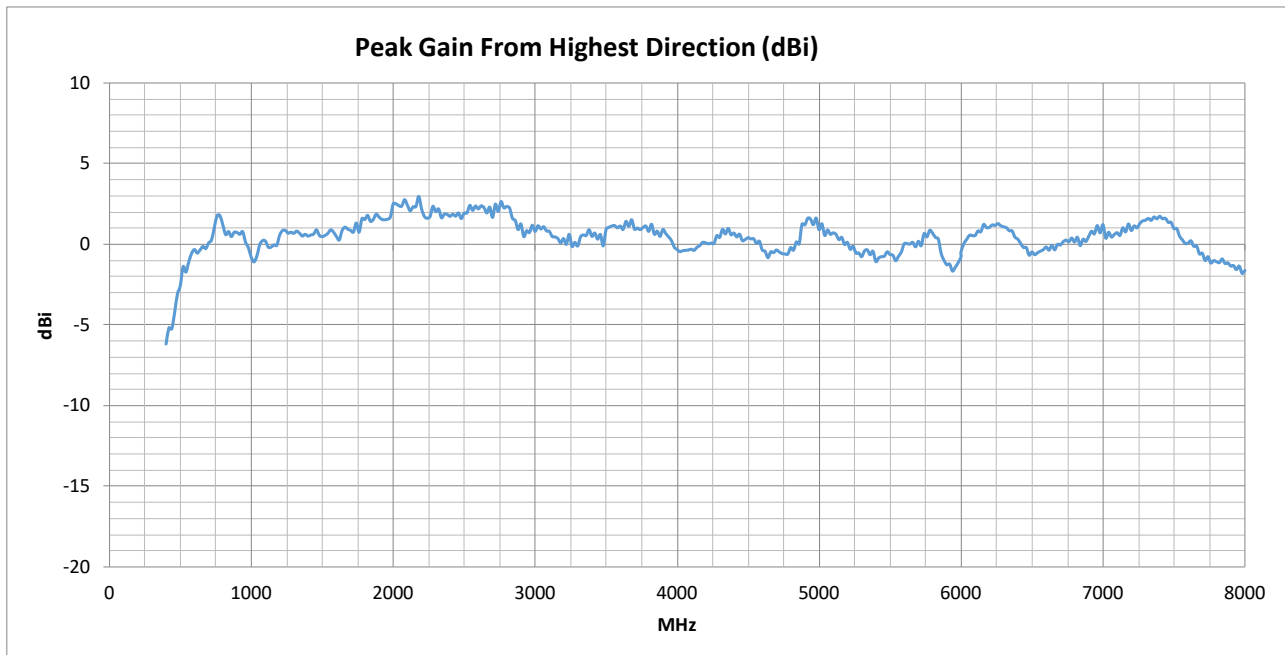
● Likely to be unsuitable



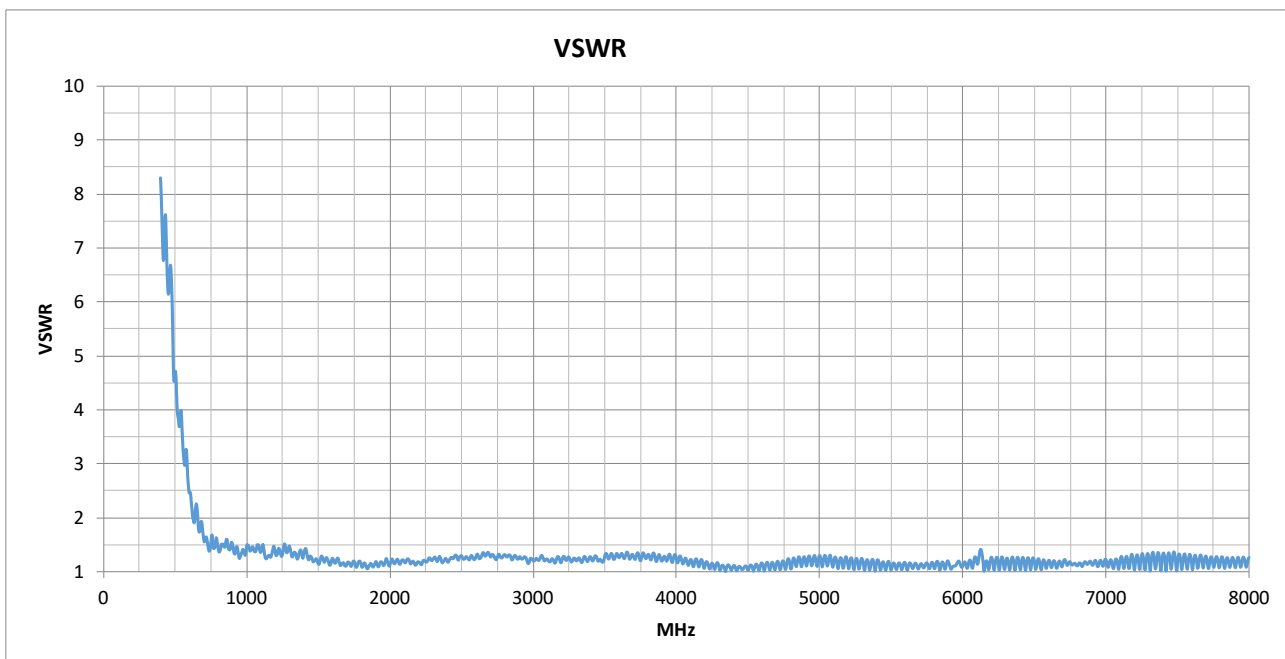
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Peak Gain vs. Frequency



VSWR

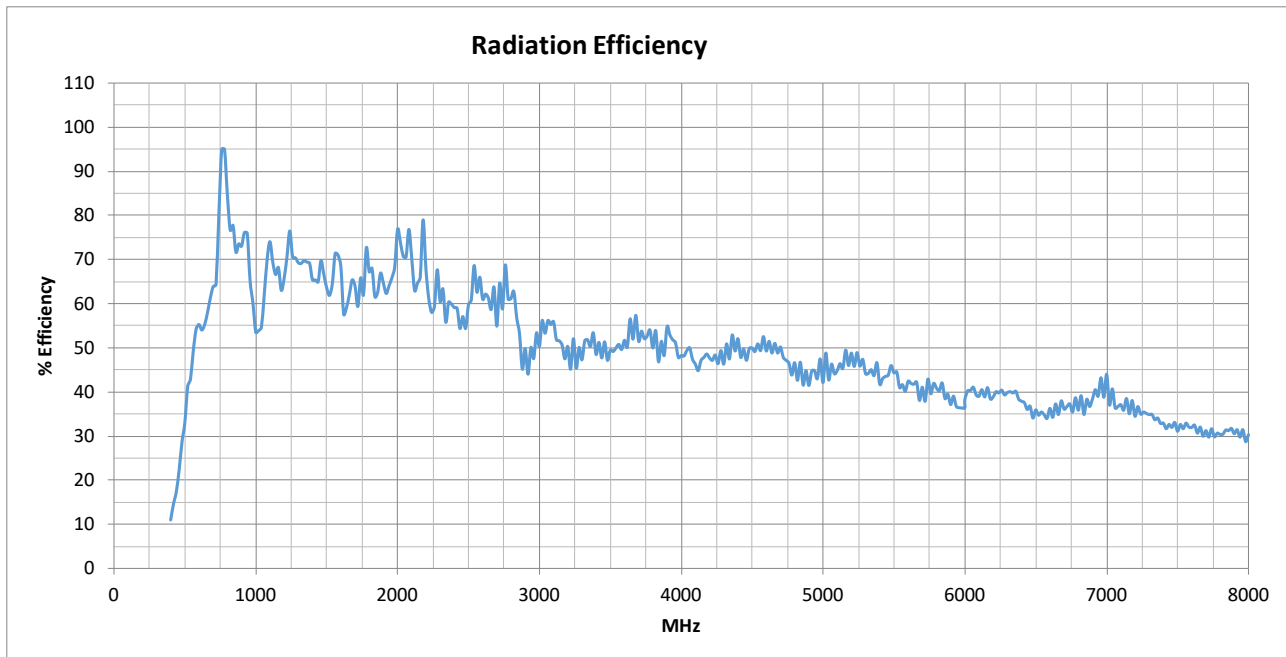




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Radiation Efficiency



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Usable Cellular Frequency Support (400 MHz – 2000 MHz)

	400	410	450	600	700	800	850	900	1500	1600	1700	1800	1900	2000
GSM Bands:							●	●				●	●	
UMTS Bands:					●	●	●	●	●		●	●	●	
LTE Bands:				●	●	●	●	●	●	●	●	●	●	●
LTE Cat M Bands:				●	●	●	●	●	●	●	●	●	●	
LTE Cat NB Bands:				●	●	●	●	●	●	●	●	●	●	●
5G NR Bands:				●	●	●	●	●	●	●	●	●	●	●
NR Cat NB Bands:				●	●	●	●	●	●	●		●	●	●
NTN Bands:										●				●

Usable Cellular Frequency Support (2100 MHz – 6700 MHz)

	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:	●			●	●									
NTN Bands:	●			●	●									



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Usable ISM Frequency Support (433 MHz - 5800 MHz)

	433	868	915	2450	5800	6525
Bluetooth				●		
Helium		●	●			
IEEE 802.15.4		●	●	●		
ISM 433						
ISM 868		●				
ISM 915			●			
ISM 2.4G			●	●		
ISM 5.8G			●		●	
LoRa		●	●			
SigFox		●	●			
Weightless		●	●			
Wi-Fi 2.4G				●		
Wi-Fi 5G					●	
Wi-Fi 6E						●
Zigbee		●	●	●		
Z-Wave		●	●			



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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	NTN Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		28A						703 - 733 MHz	758 - 788 MHz	92.50	100.00	1.35	1.51	●
		29			n29			N/A	717 - 728 MHz	N/A	93.31	N/A	1.33	●
		30			n30			2305 - 2315 MHz	2350 - 2360 MHz	85.67	87.37	1.51	1.49	●
		31	31	31				452.5 - 457.5 MHz	462.5 - 467.5 MHz	30.26	35.96	10.56	8.90	●
	32	32						N/A	1452 - 1496 MHz	N/A	84.37	N/A	1.53	●
		33						1900 - 1920 MHz	1900 - 1920 MHz	92.17	92.17	1.09	1.09	●
		34			n34			2010 - 2025 MHz	2010 - 2025 MHz	93.87	93.87	1.35	1.35	●
		35						1850 - 1910 MHz	1850 - 1910 MHz	90.00	90.00	1.10	1.10	●
		36						1930 - 1990 MHz	1930 - 1990 MHz	91.75	91.75	1.24	1.24	●
		37						1910 - 1930 MHz	1910 - 1930 MHz	93.36	93.36	1.11	1.11	●
		38			n38			2570 - 2620 MHz	2570 - 2620 MHz	81.32	81.32	1.62	1.62	●
		39	39		n39			1880 - 1920 MHz	1880 - 1920 MHz	91.69	91.69	1.09	1.09	●
		40	40		n40			2300 - 2400 MHz	2300 - 2400 MHz	84.92	84.92	1.51	1.51	●
		41	41	41	n41	n41		2496 - 2690 MHz	2496 - 2690 MHz	82.71	82.71	1.64	1.64	●
		42	42	42				3400 - 3600 MHz	3400 - 3600 MHz	82.33	82.33	1.81	1.81	●
		43	43	43				3600 - 3800 MHz	3600 - 3800 MHz	94.41	94.41	1.51	1.51	●
		44						703 - 803 MHz	703 - 803 MHz	97.64	97.64	1.54	1.54	●
		45						1447 - 1467 MHz	1447 - 1467 MHz	85.91	85.91	1.55	1.55	●
		46			n46			5150 - 5925 MHz	5150 - 5925 MHz	88.08	88.08	1.73	1.73	●
		47			n47			5855 - 5925 MHz	5855 - 5925 MHz	80.87	80.87	1.51	1.51	●
		48	48	48	n48			3550 - 3700 MHz	3550 - 3700 MHz	93.15	93.15	1.51	1.51	●
		49						3550 - 3700 MHz	3550 - 3700 MHz	93.15	93.15	1.51	1.51	●
		50			n50			1432 - 1517 MHz	1432 - 1517 MHz	84.88	84.88	1.58	1.58	●
		51			n51			1427 - 1432 MHz	1427 - 1432 MHz	88.12	88.12	1.61	1.61	●
		52						3300 - 3400 MHz	3300 - 3400 MHz	78.44	78.44	1.93	1.93	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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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	NTN Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		68						698 - 728 MHz	753 - 783 MHz	64.94	94.16	1.69	1.68	●
		69						N/A	2570 - 2620 MHz	N/A	63.00	N/A	1.33	●
		70		70	n70	n70		1695 - 1710 MHz	1995 - 2020 MHz	63.25	75.34	1.18	1.24	●
		71	71	71	n71	n71		663 - 698 MHz	617 - 652 MHz	61.15	55.03	1.94	2.26	●
		72	72	72				451 - 456 MHz	461 - 466 MHz	20.71	23.44	6.28	6.52	●
		73	73	73				450 - 455 MHz	460 - 465 MHz	20.46	23.12	6.31	6.48	●
		74	74	74	n74	n74		1427 - 1470 MHz	1475 - 1518 MHz	66.96	64.30	1.29	1.25	●
		75			n75			N/A	1432 - 1517 MHz	N/A	65.82	N/A	1.29	●
		76			n76			N/A	1427 - 1432 MHz	N/A	65.10	N/A	1.28	●
					n77			3300 - 4200 MHz	3300 - 4200 MHz	50.33	50.33	1.36	1.36	●
					n78			3300 - 3800 MHz	3300 - 3800 MHz	51.23	51.23	1.36	1.36	●
					n79			4400 - 5000 MHz	4400 - 5000 MHz	47.35	47.35	1.30	1.30	●
					n80			1710 - 1785 MHz	N/A	64.50	N/A	1.20	N/A	●
					n81			880 - 915 MHz	N/A	73.59	N/A	1.55	N/A	●
					n82			832 - 862 MHz	N/A	75.17	N/A	1.60	N/A	●
					n83			703 - 748 MHz	N/A	71.09	N/A	1.65	N/A	●
					n84			1920 - 1980 MHz	N/A	64.99	N/A	1.24	N/A	●
		85	85	85	n85			698 - 716 MHz	728 - 746 MHz	63.97	77.72	1.69	1.54	●
					n86			1710 - 1780 MHz	N/A	63.97	N/A	1.20	N/A	●
		87	87	87				410 - 415 MHz	420 - 425 MHz	13.23	14.93	7.55	6.92	●
		88	88	88				412 - 417 MHz	422 - 427 MHz	13.59	15.21	7.37	7.11	●
					n89			824 - 849 MHz	N/A	76.86	N/A	1.51	N/A	●
					n90	n90		2496 - 2690 MHz	2496 - 2690 MHz	62.36	62.36	1.36	1.36	●
					n91			832 - 862 MHz	1427 - 1432 MHz	75.17	65.10	1.60	1.28	●
					n92			832 - 862 MHz	1432 - 1517 MHz	75.17	65.82	1.60	1.29	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



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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	NTN Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
					n93			880 - 915 MHz	1427 - 1432 MHz	73.59	65.10	1.55	1.28	●
					n94			880 - 915 MHz	1432 - 1517 MHz	73.59	65.82	1.55	1.29	●
					n95			2010 - 2025 MHz	N/A	74.15	N/A	1.24	N/A	●
					n96			5925 - 7125 MHz	5925 - 7125 MHz	38.08	38.08	1.42	1.42	●
					n97			2300 - 2400 MHz	N/A	59.75	N/A	1.28	N/A	●
					n98			1880 - 1920 MHz	N/A	64.55	N/A	1.19	N/A	●
					n99			1626.5 - 1660.5 MHz	N/A	59.73	N/A	1.25	N/A	●
1900					n101			1900 - 1910 MHz	1900 - 1910 MHz	63.98	63.98	1.19	1.19	●
					n102			5925 - 6425 MHz	5925 - 6425 MHz	39.46	39.46	1.42	1.42	●
				103				787 - 788 MHz	757 - 758 MHz	90.97	93.01	1.60	1.66	●
					n104			6425 - 7125 MHz	6425 - 7125 MHz	37.09	37.09	1.28	1.28	●
								663 - 703 MHz	612 - 652 MHz	61.48	54.94	1.94	2.39	●
							n254	1610 - 1625.5 MHz	2483.5 - 2500 MHz	59.37	57.48	1.20	1.30	●
							n255	1626.5 - 1660.5 MHz	1525 - 1559 MHz	59.73	65.81	1.25	1.29	●
							n256	1980 - 2010 MHz	2170 - 2200 MHz	73.65	74.08	1.23	1.19	●

● 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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ISM Standards Frequency Support

Application	Frequency Range	Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 868 MHz	863 - 870 MHz	72.21	1.60	0.60	●
ISM 915 MHz	902 - 928 MHz	75.06	1.51	0.70	●
ISM 2.4 GHz	2400 - 2500 MHz	58.65	1.34	2.04	●
Wi-Fi 2.4G	2401 - 2483 MHz	58.98	1.32	2.03	●
Wi-Fi 2.4G (USA)	2401 - 2473 MHz	59.47	1.32	2.03	●
Wi-Fi 2.4G (Japan)	2401 - 2495 MHz	58.66	1.33	2.03	●
Wi-Fi 5G (all channels)	5150 - 5990 MHz	44.89	1.28	1.23	●
Wi-Fi 5G (Ch 32-48)	5150 - 5250 MHz	48.49	1.28	0.31	●
Wi-Fi 5G (Ch 32-64)	5150 - 5330 MHz	48.53	1.28	0.31	●
Wi-Fi 5G (Ch 32-161)	5150 - 5815 MHz	45.96	1.28	1.23	●
Wi-Fi 5G (Ch 32-173)	5150 - 5875 MHz	45.68	1.28	1.23	●
Wi-Fi 6E (Ch 1-93)	5925 - 6425 MHz	39.46	1.42	1.26	●
Wi-Fi 6E (all channels)	5925 - 7125 MHz	38.08	1.42	1.26	●
ISM 5.8 GHz	5725 - 5875 MHz	42.74	1.24	1.23	●
UWB band 1	3168 - 3696 MHz	52.67	1.39	1.38	●
UWB band 2	3696 - 4224 MHz	51.85	1.37	1.36	●
UWB band 3	4224 - 4752 MHz	52.09	1.25	1.18	●
UWB band 4	4752 - 5280 MHz	46.75	1.35	1.27	●
UWB band 5	5280 - 5808 MHz	45.39	1.28	1.23	●
UWB band 6	5808 - 6336 MHz	40.11	1.42	1.26	●
UWB band 7	6336 - 6864 MHz	36.51	1.27	0.86	●
UWB band 8	6864 - 7392 MHz	36.99	1.36	1.67	●
UWB band 9	7392 - 7920 MHz	31.43	1.37	1.71	●

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable

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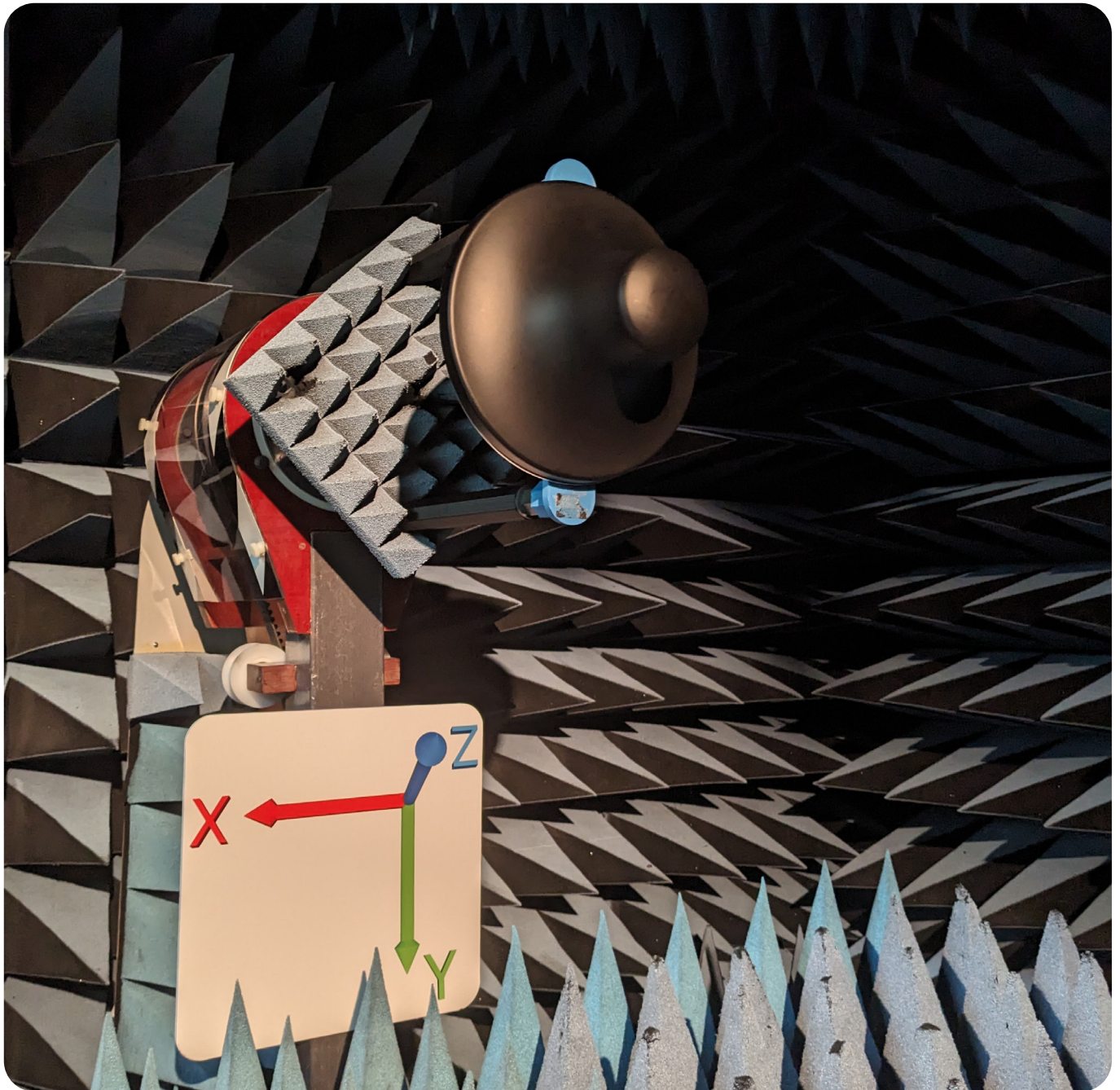
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Test Setup (in Free Space)



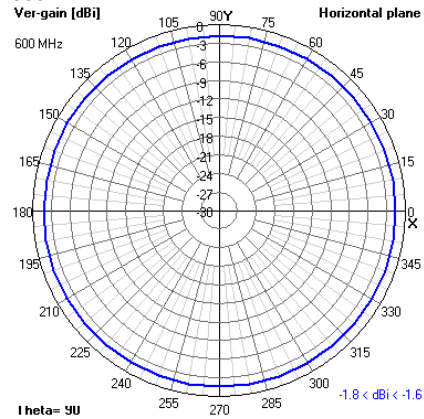


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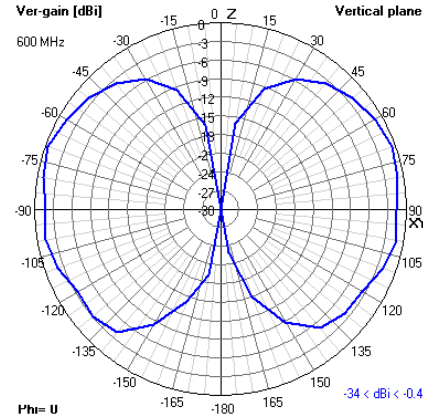
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2D Radiation Plots

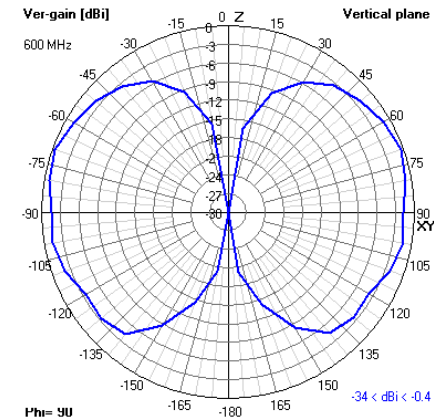
600 MHz XY



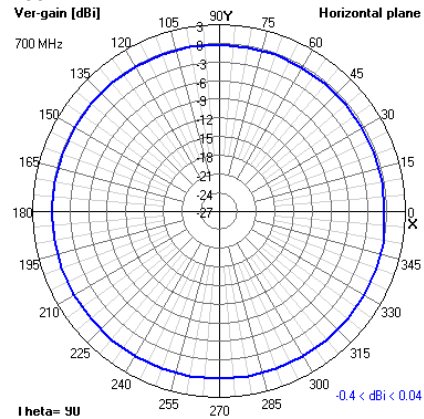
XZ



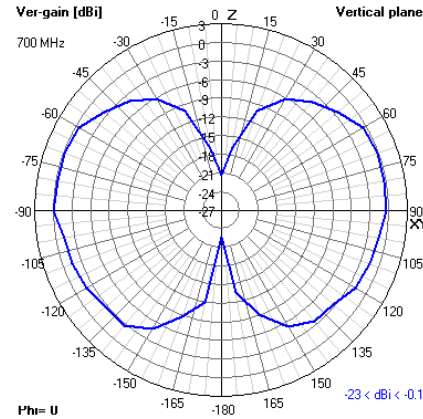
YZ



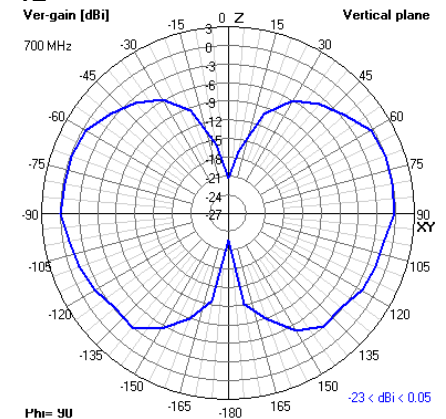
700 MHz XY



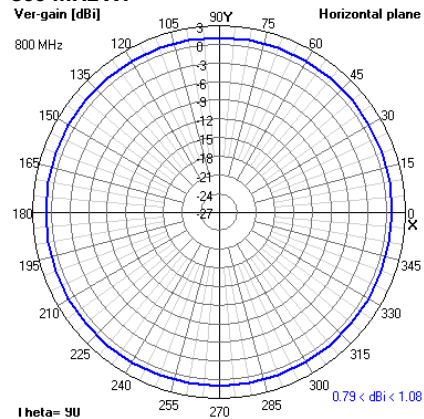
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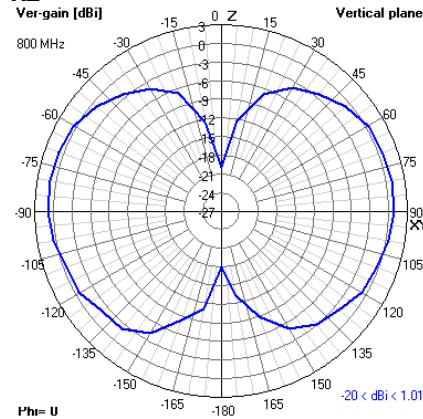
YZ



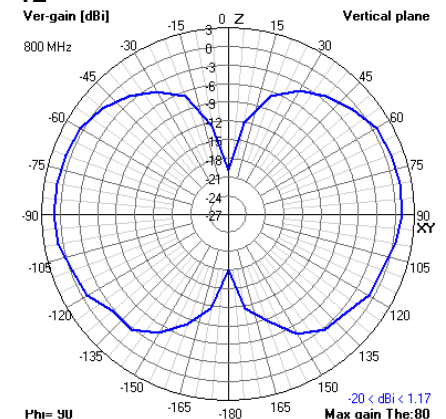
800 MHz XY



XZ



YZ



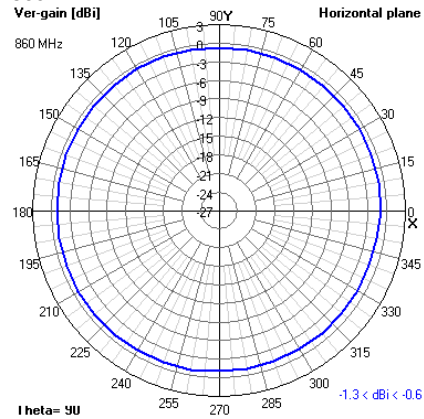


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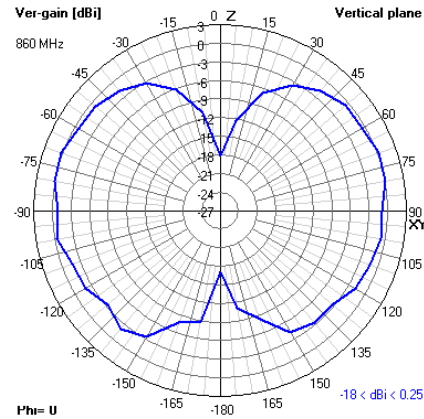
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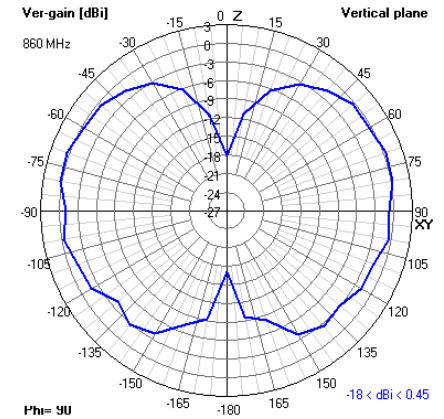
860 MHz XY



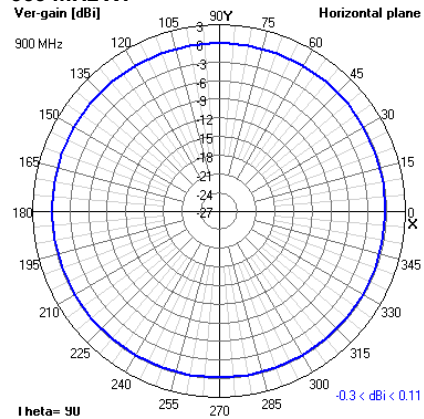
XZ



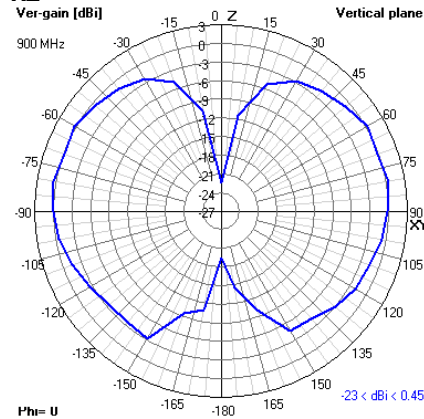
YZ



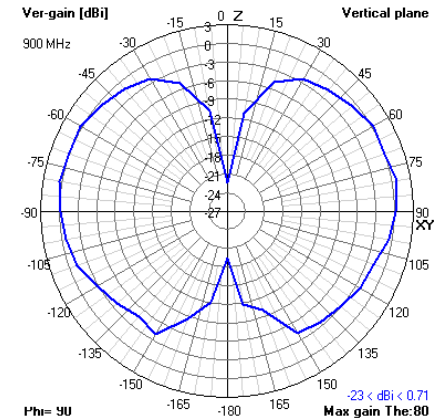
900 MHz XY



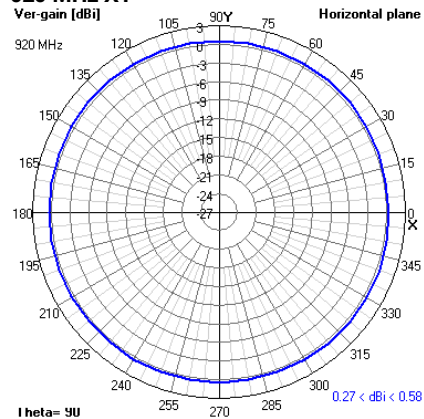
XZ



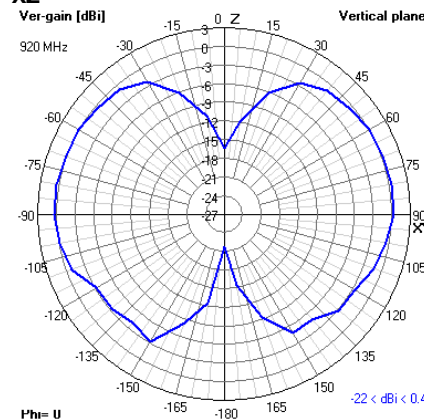
YZ



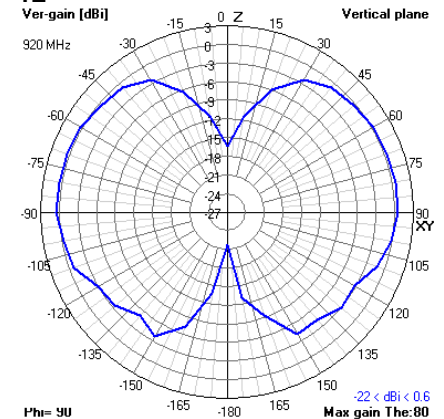
920 MHz XY



XZ



YZ





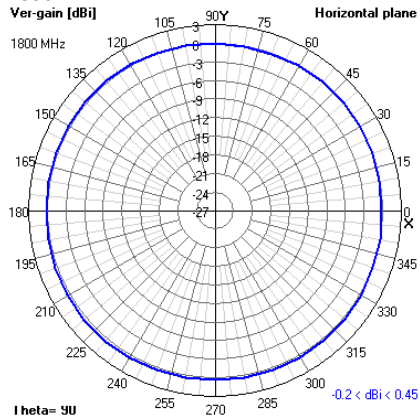


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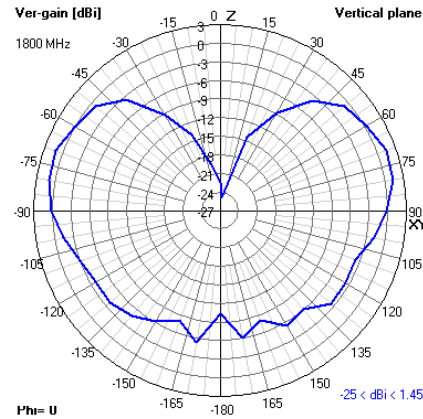
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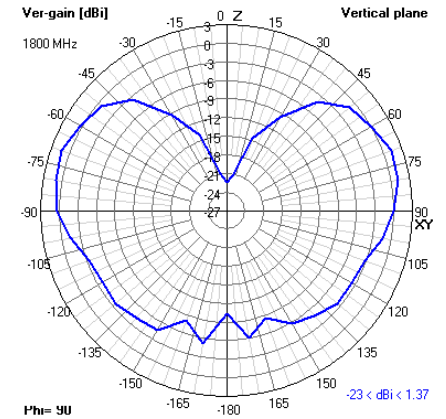
1800 MHz XY



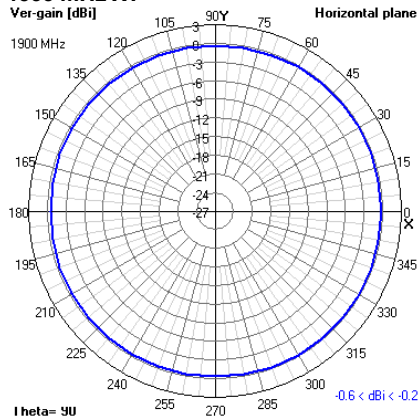
XZ



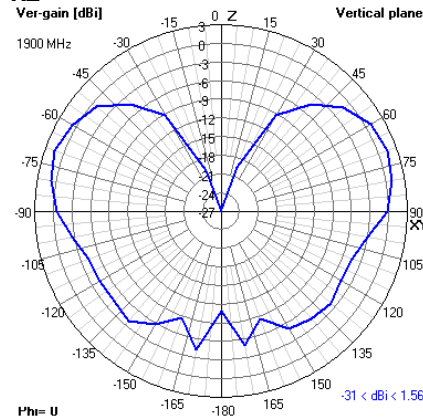
YZ



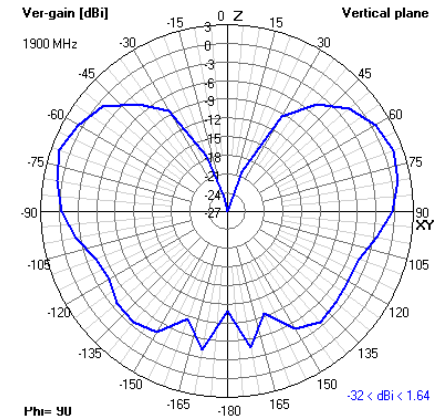
1900 MHz XY



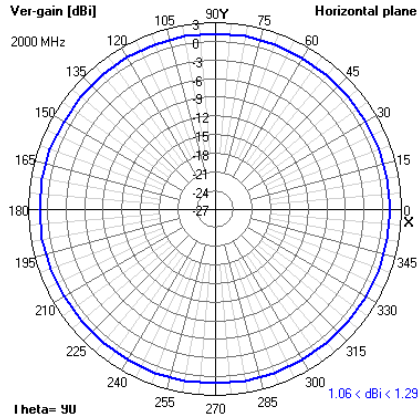
XZ



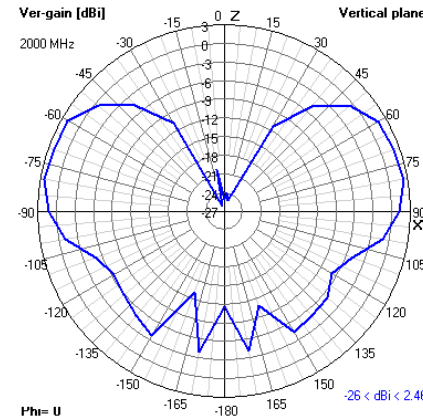
YZ



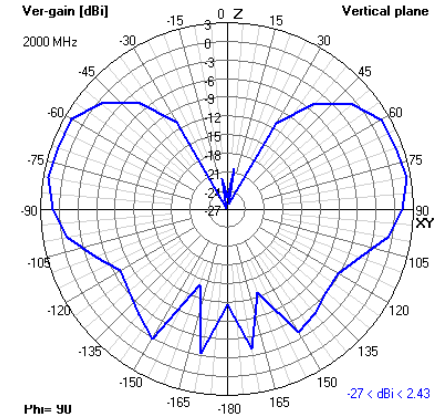
2000 MHz XY



XZ



YZ

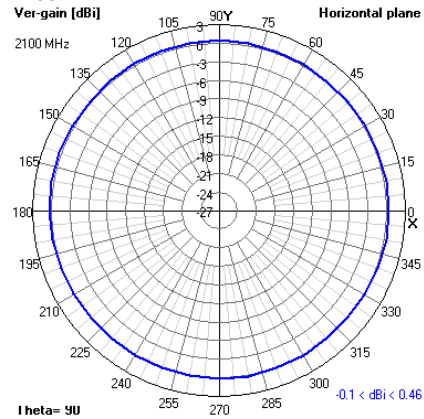


Tango 58

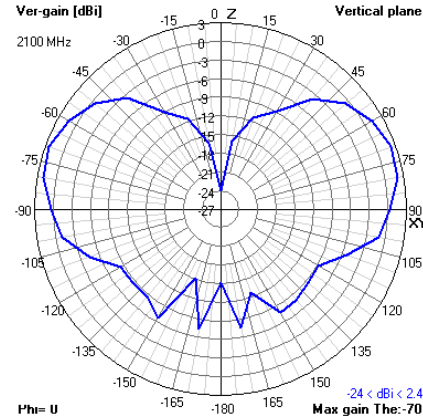
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

2D Radiation Plots

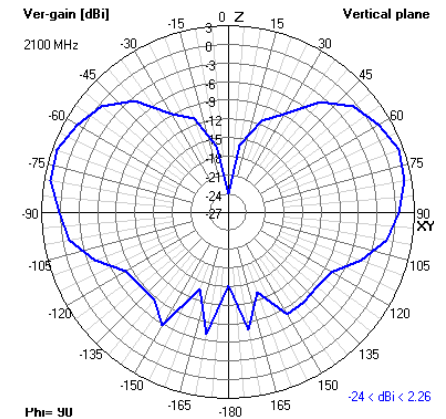
2100 MHz XY



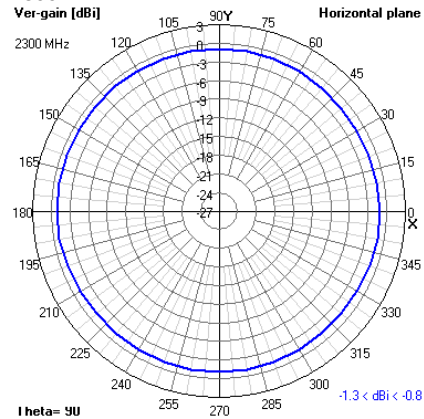
XZ



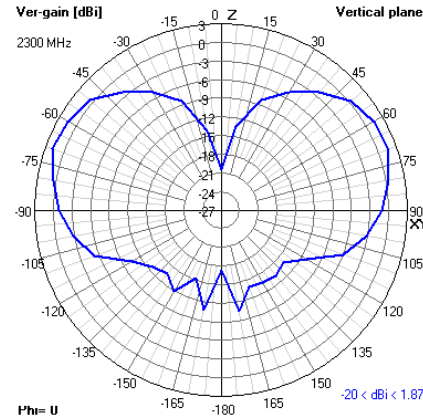
YZ



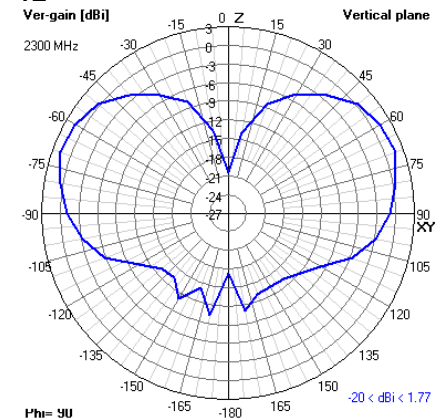
2300 MHz XY



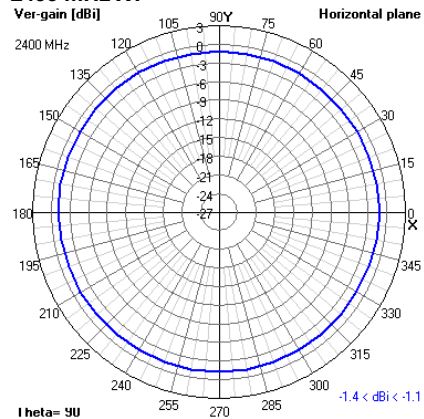
XZ



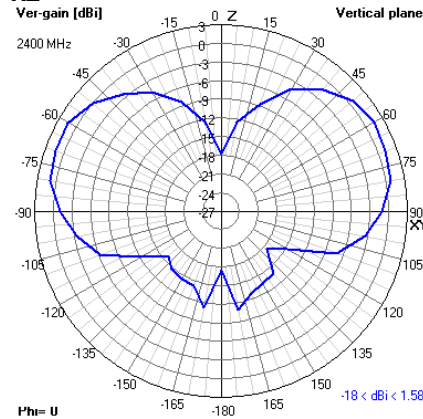
YZ



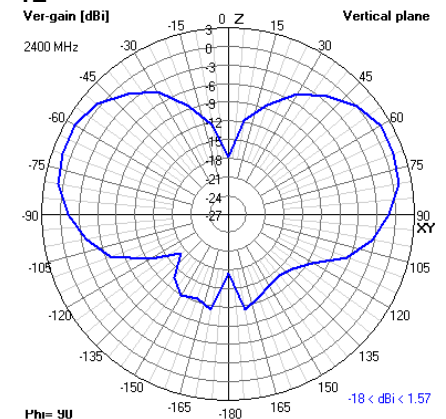
2400 MHz XY



XZ



YZ



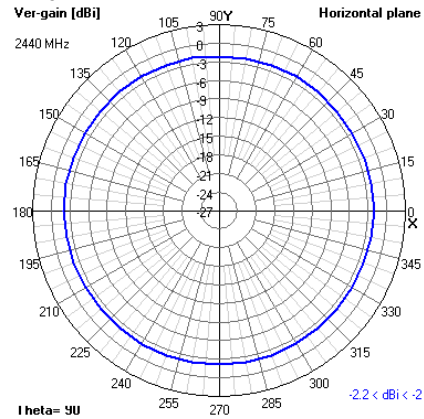


Tango 58

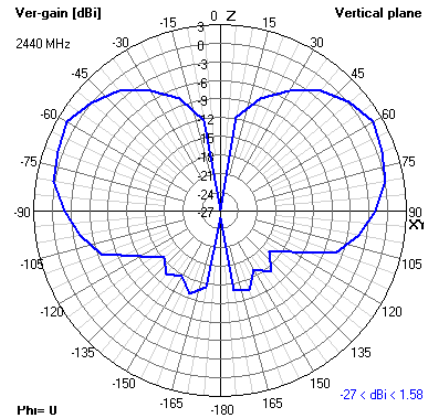
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

2D Radiation Plots

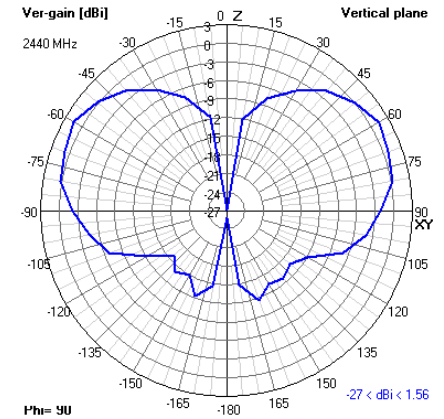
2440 MHz XY



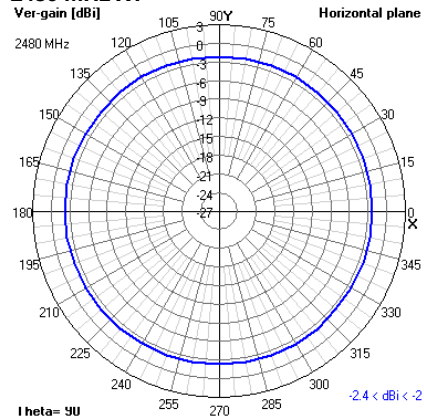
XZ



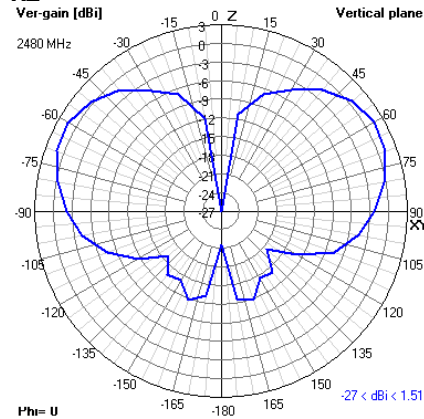
YZ



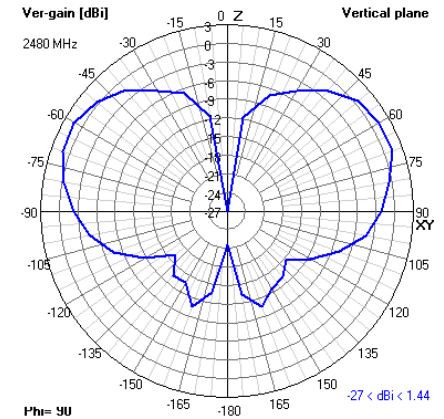
2480 MHz XY



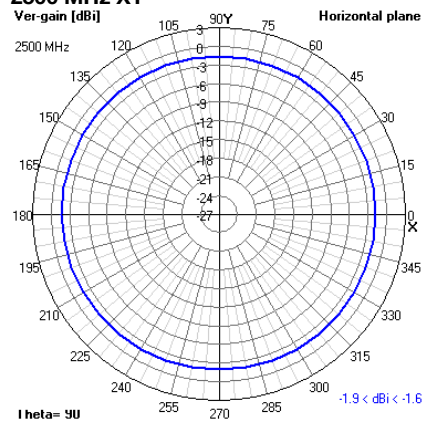
XZ



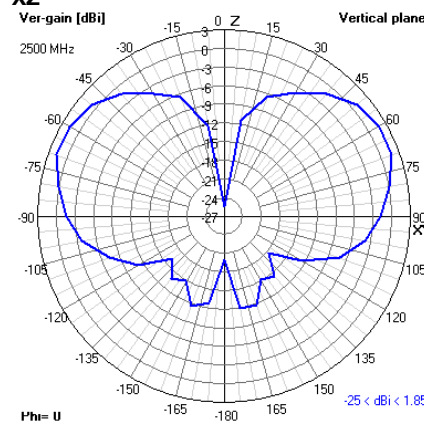
YZ



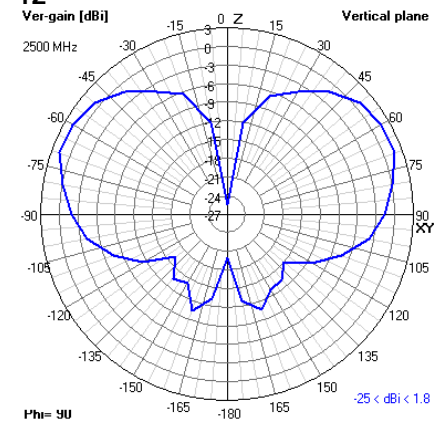
2500 MHz XY



XZ



YZ





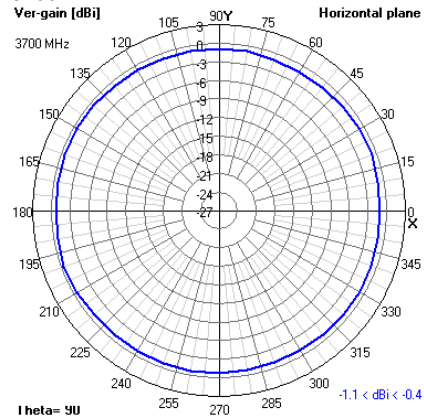


Tango 58

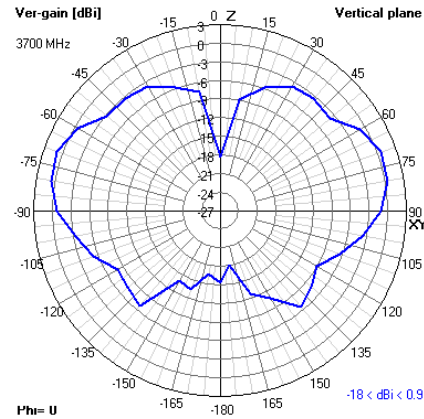
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

2D Radiation Plots

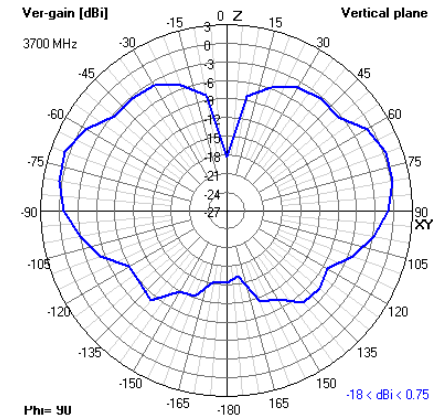
3700 MHz XY



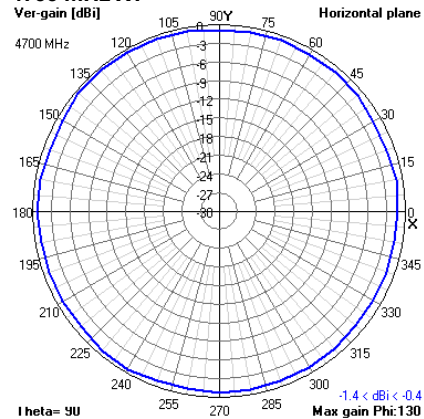
XZ



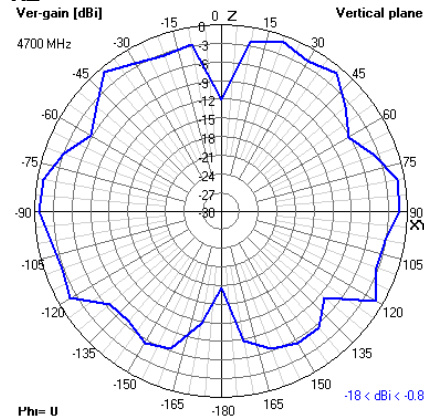
YZ



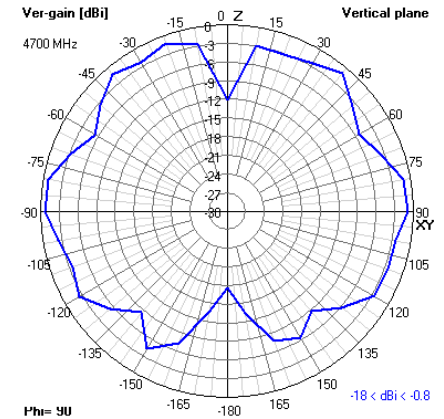
4700 MHz XY



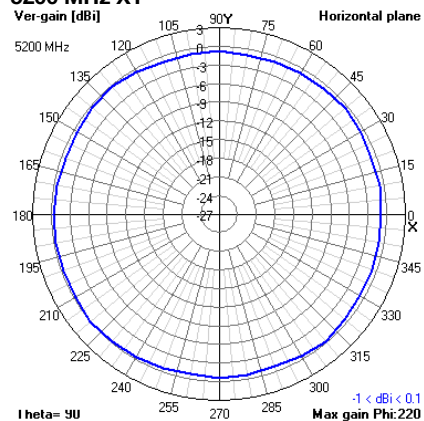
XZ



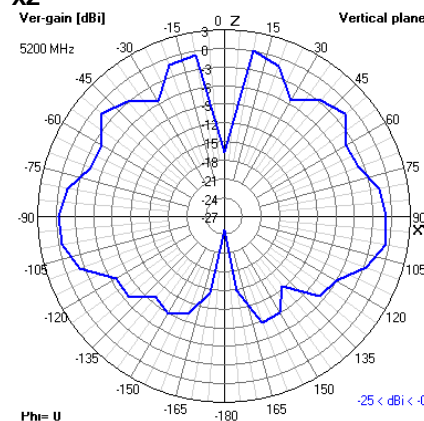
YZ



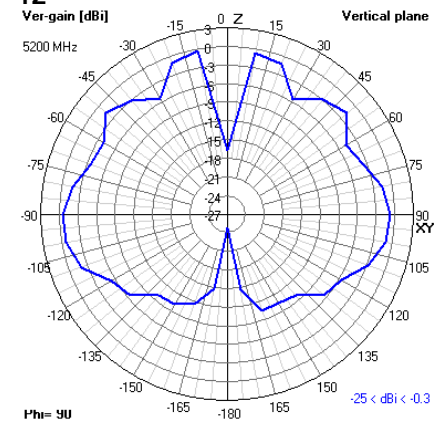
5200 MHz XY



XZ



YZ



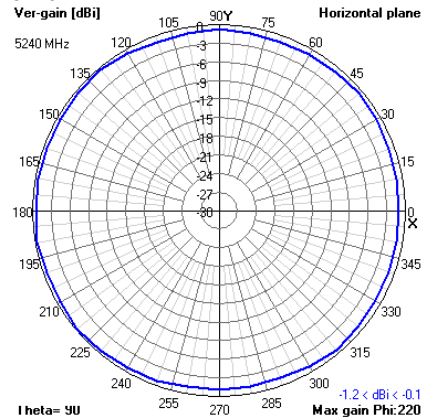


Tango 58

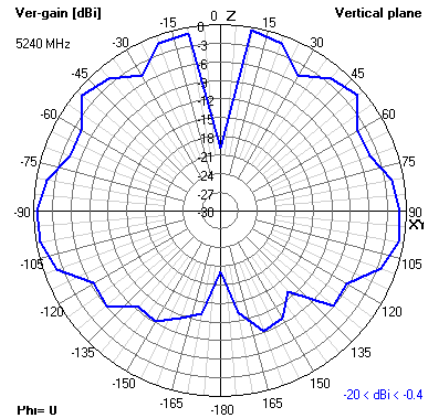
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

2D Radiation Plots

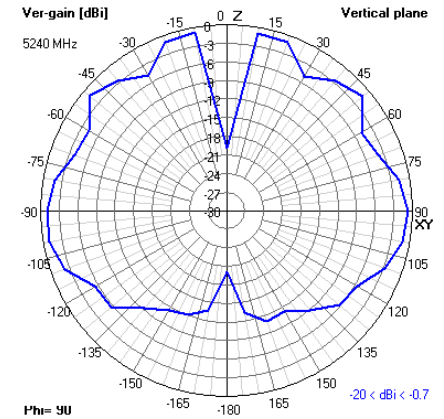
5240 MHz XY



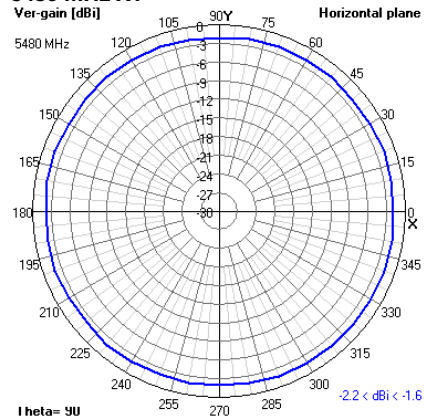
XZ



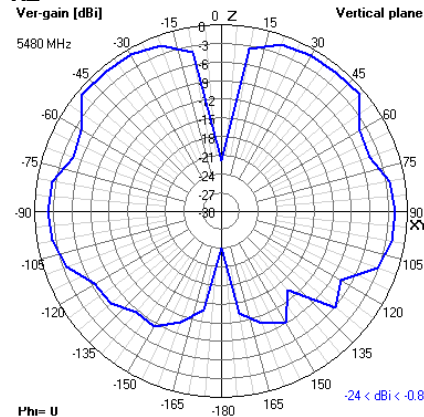
YZ



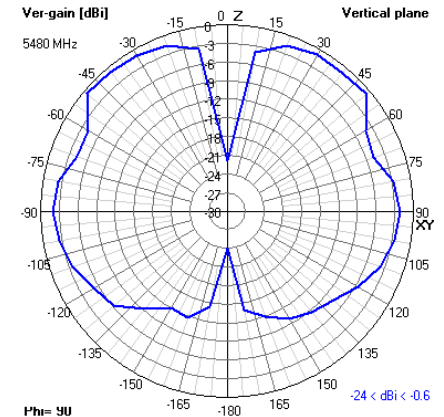
5480 MHz XY



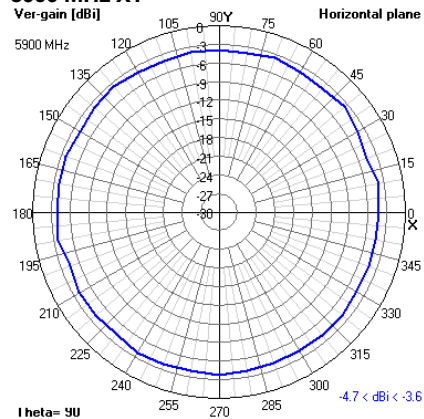
XZ



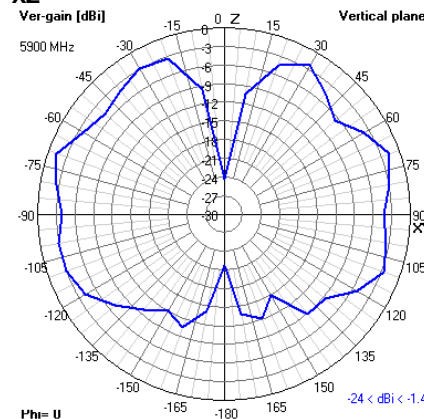
YZ



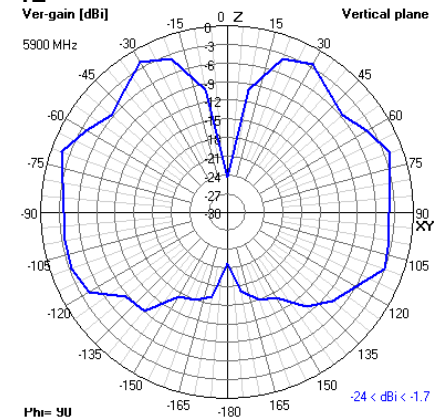
5900 MHz XY



XZ



YZ





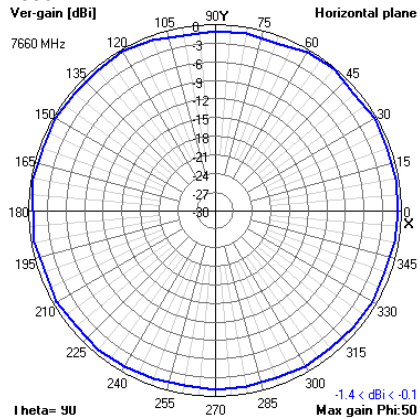


Tango 58

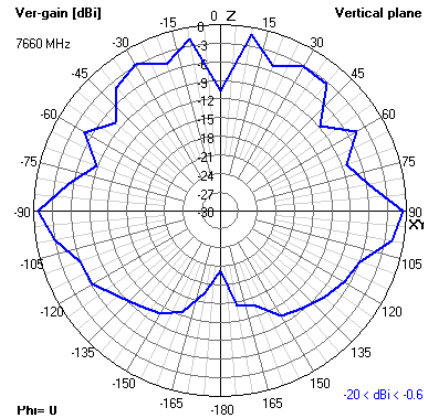
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

2D Radiation Plots

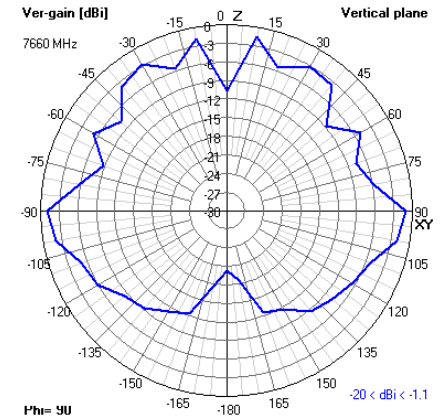
7660 MHz XY



XZ



YZ



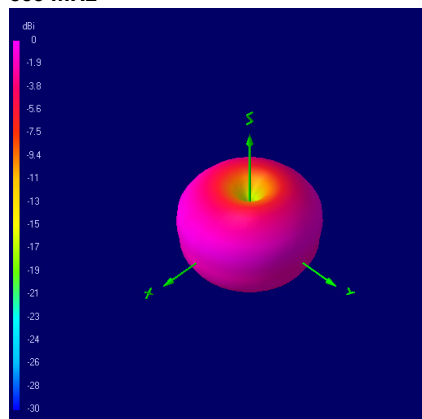


Tango 58

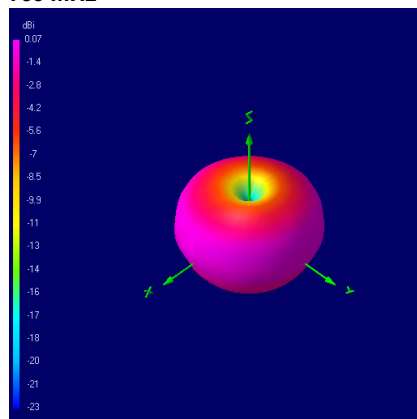
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

3D Radiation Plots

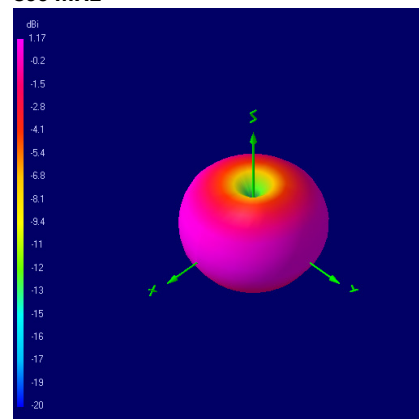
600 MHz



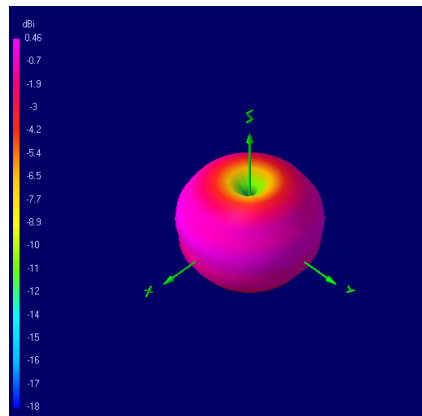
700 MHz



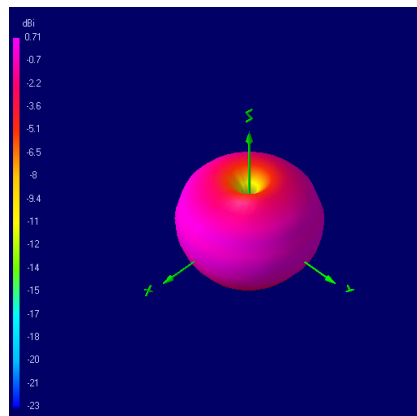
800 MHz



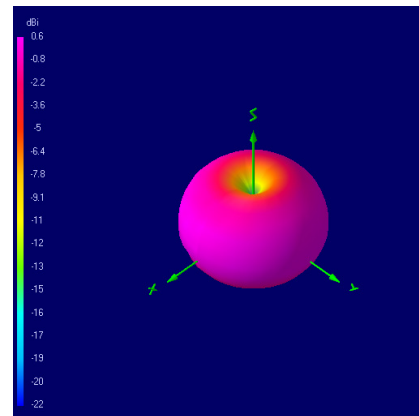
860 MHz



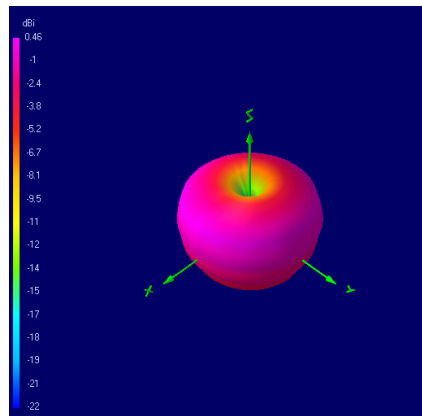
900 MHz



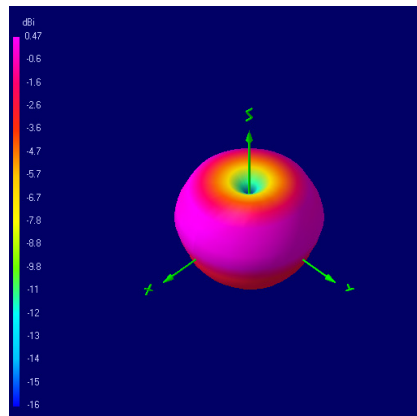
920 MHz



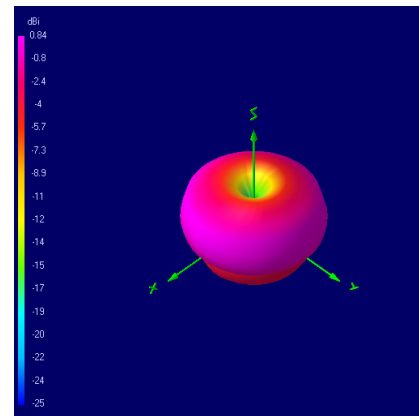
1500 MHz



1600 MHz



1700 MHz



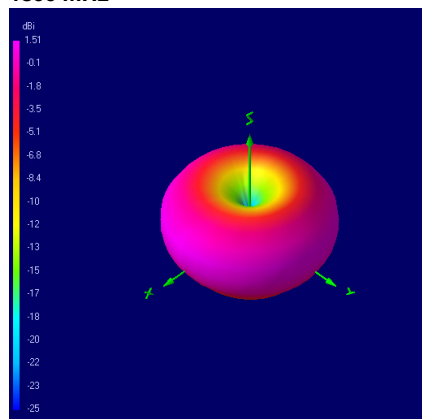


Tango 58

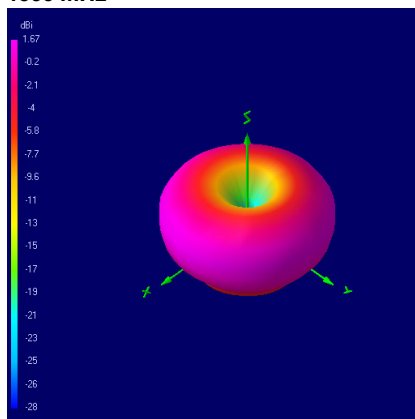
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

3D Radiation Plots

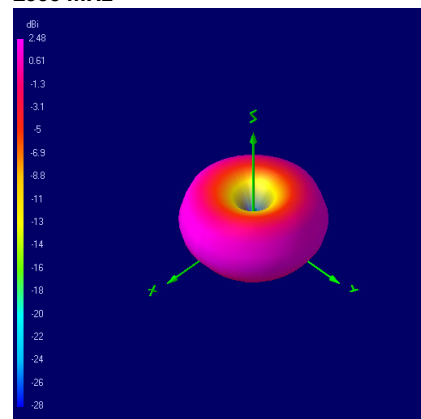
1800 MHz



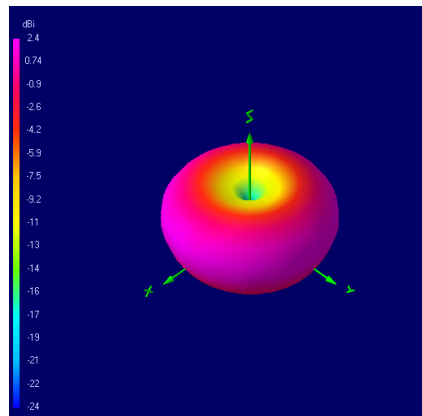
1900 MHz



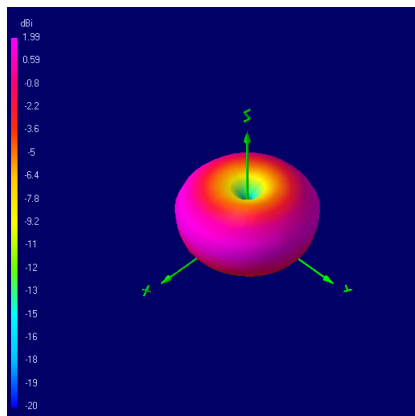
2000 MHz



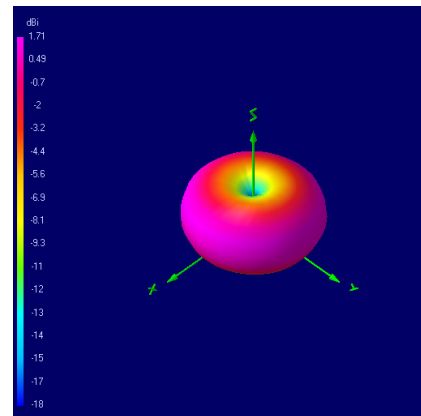
2100 MHz



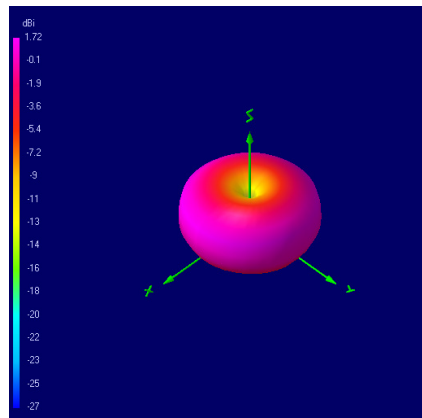
2300 MHz



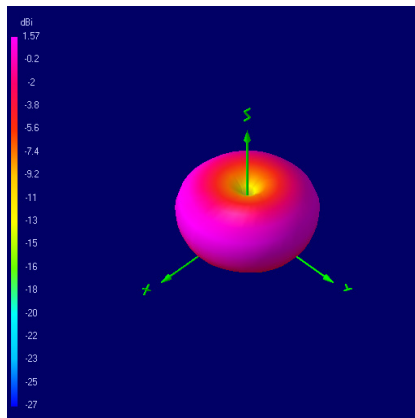
2400 MHz



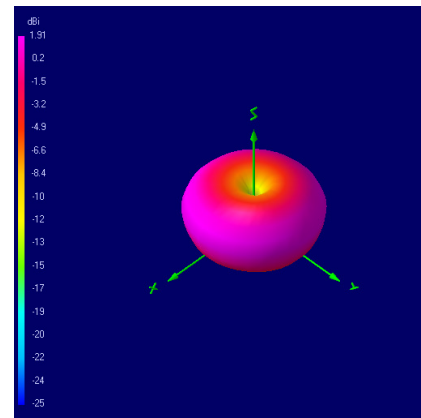
2440 MHz



2480 MHz



2500 MHz



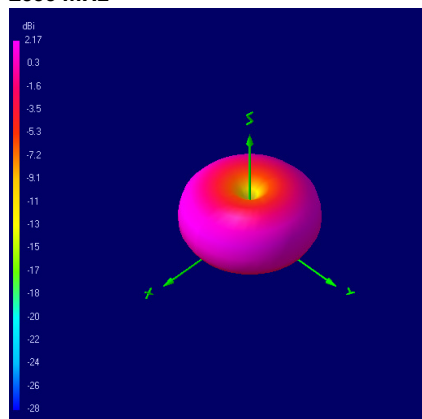


Tango 58

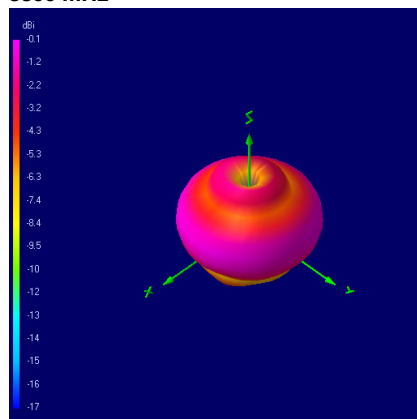
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

3D Radiation Plots

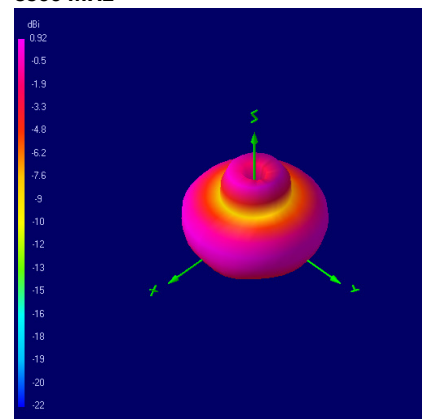
2600 MHz



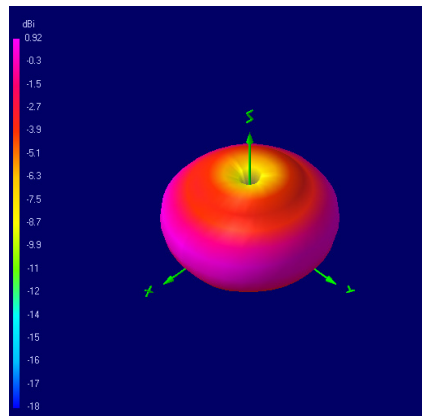
3300 MHz



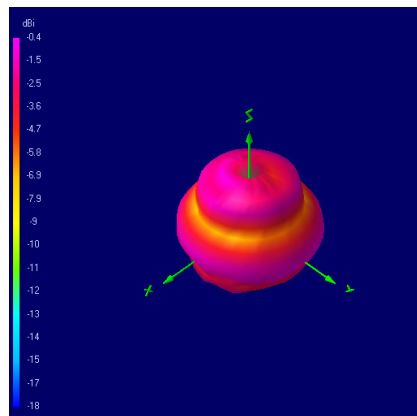
3500 MHz



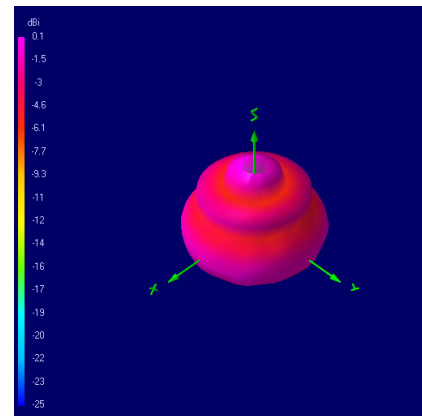
3700 MHz



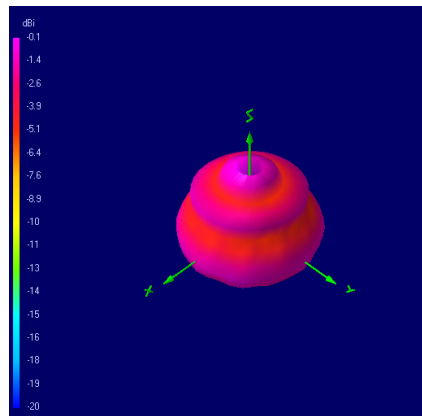
4700 MHz



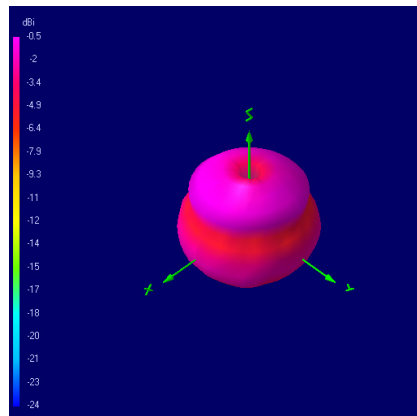
5200 MHz



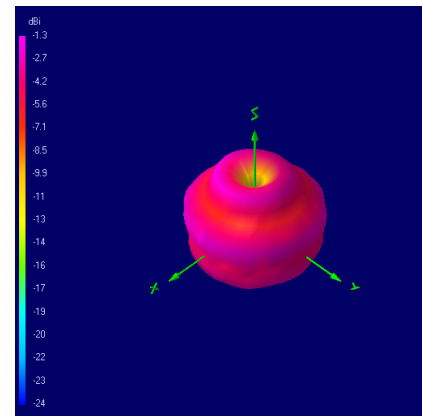
5240 MHz



5480 MHz



5900 MHz



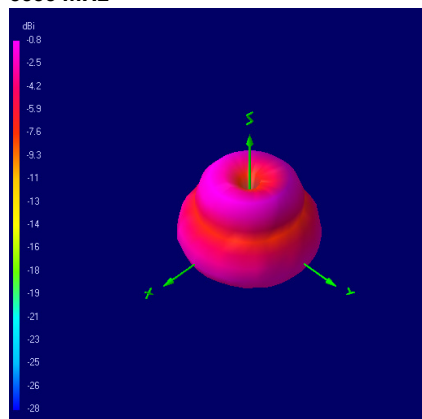


Tango 58

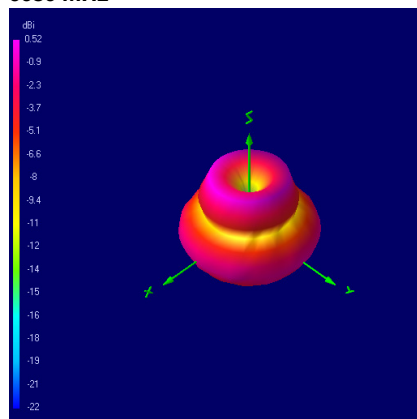
5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

3D Radiation Plots

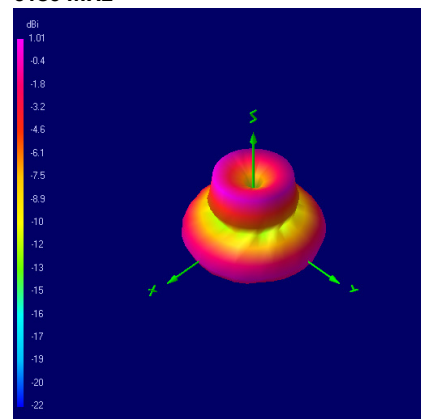
6000 MHz



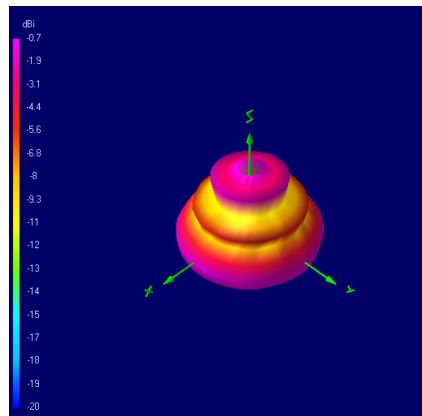
6080 MHz



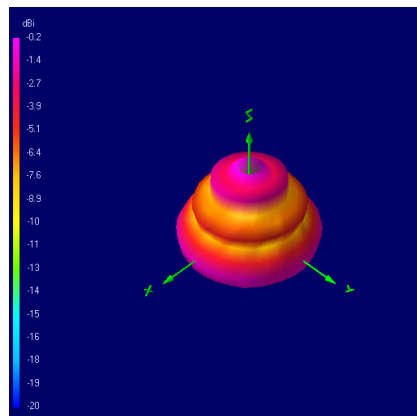
6180 MHz



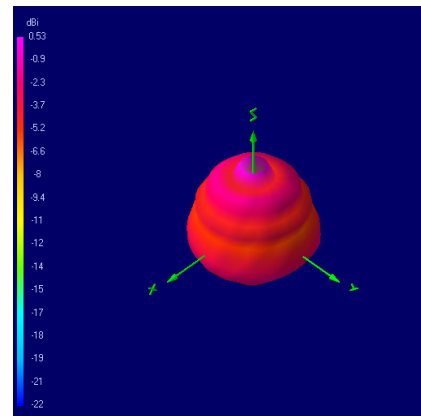
6520 MHz



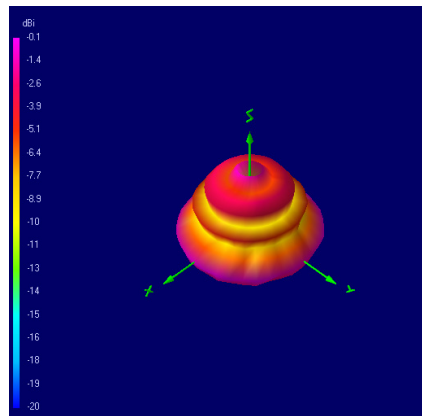
6600 MHz



7120 MHz



7600 MHz



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





Tango 58

5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna for 600-8000 MHz

Ordering Details:

Part Number	Description
TANGO58/X/NTYPEF/36	5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna N-Type Female Connector White Radome
TANGO58B/X/NTYPEF/36	5G/4G LTE, Wi-Fi 7 ISM Ceiling Mount Antenna N-Type Female Connector Black Radome