



Oscar 421

4G LTE MIMO Directional Fixed Wireless Access Panel Antenna



Key Features

- Supports global 4G LTE bands (700-960 MHz and 1.6-2.7 GHz).
- Directional design for high-gain, focused signal coverage.
- MIMO-compatible with two ports to boost data throughput.
- UV and water-resistant radome for outdoor durability.
- 8 dBi peak gain for strong, reliable 4G connections.

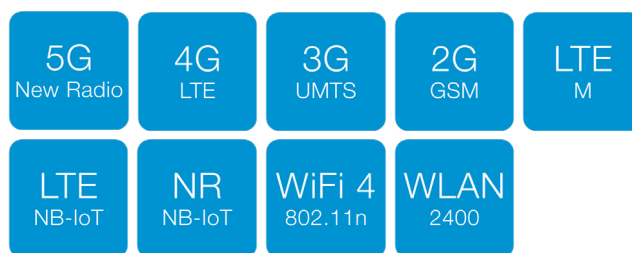
General Description

The Oscar 421 is a high-performance directional 4G panel antenna, designed to cover key frequency bands from 700 MHz to 960 MHz and 1.6 GHz to 2.7 GHz. With two ports for MIMO configurations, this antenna is ideal for improving signal strength and data throughput in 4G LTE networks. Its directional design allows for higher gain by focusing the signal towards the front, making it perfect for environments such as stadiums, shopping malls, and other large, open areas that require strong, targeted coverage.

The Oscar 421's UV and water-resistant radome ensures reliable operation in harsh outdoor conditions. It comes equipped with a stainless steel bracket and U-bolt clamp for easy mast mounting.

Additional Considerations

- 0.4 M RG58 cables for easy connection to standard or low-loss extension cables.
- Includes stainless steel bracket and U-bolt for flexible mast mounting.
- Ideal for Fixed Wireless Access (FWA) and high-demand 4G LTE networks.



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Electrical Specifications

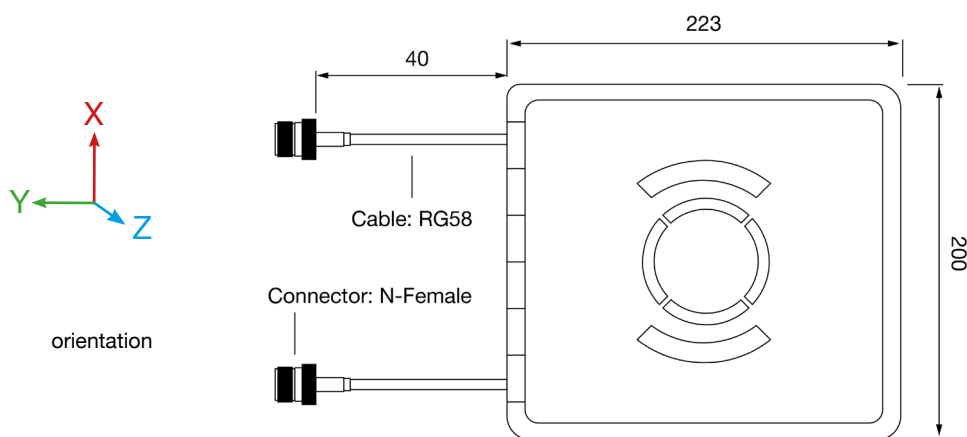
Impedance:	50 Ohm
Polarization:	Linear Vertical
Max input power:	100 W
Ground plane independent:	Yes

Environmental Specifications

Operating temperature range:	-30 °C - +80 °C
Storage temperature range:	-40 °C - +80 °C

Mechanical Specifications

Dimensions:	L223 x W200 x H60 mm
Weight:	1 KG
Connector:	N Female x2
Mounting method:	Pole U-Bolts
Housing materials:	ABS

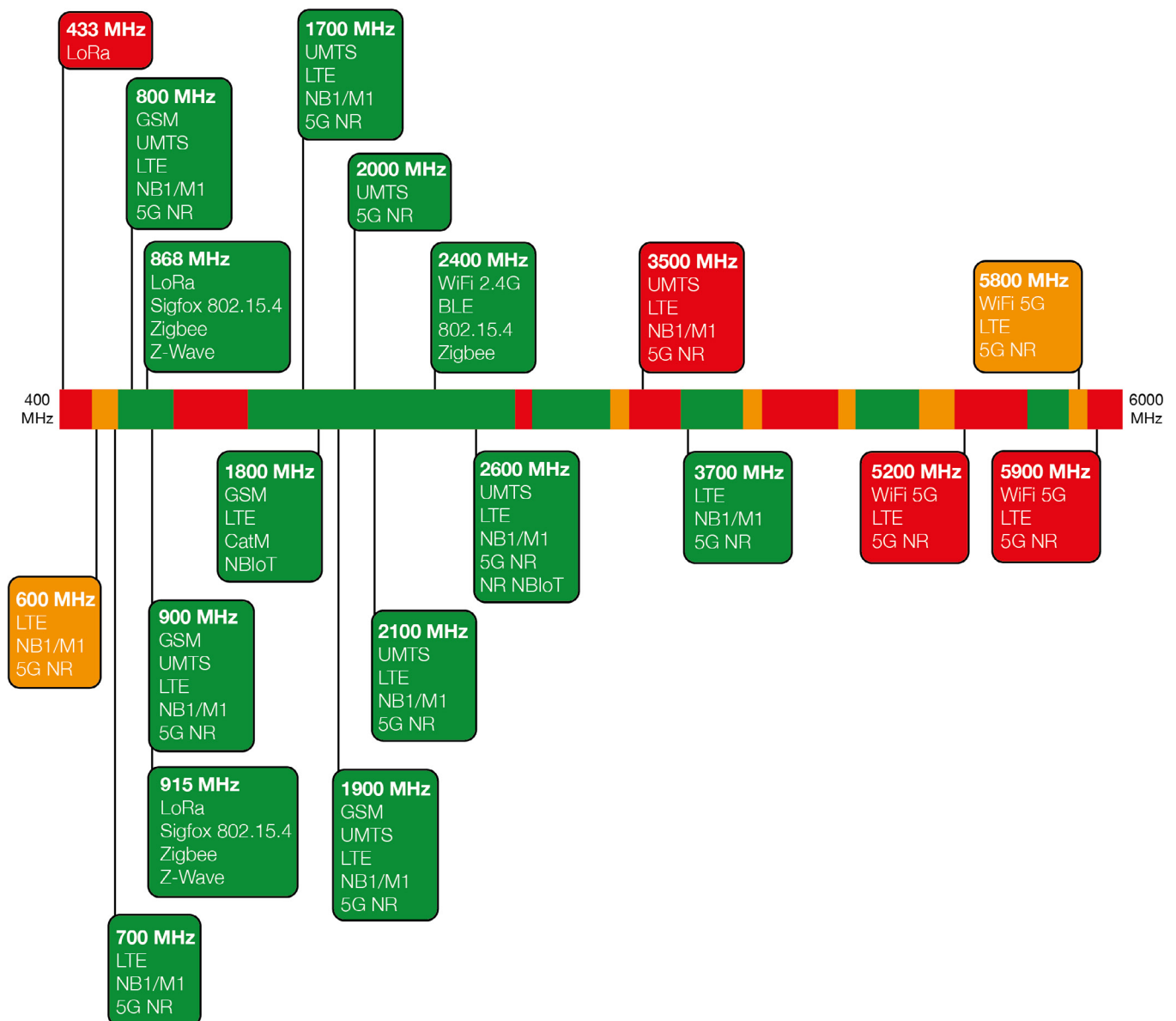




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Spectrum Coverage



● Suitable band

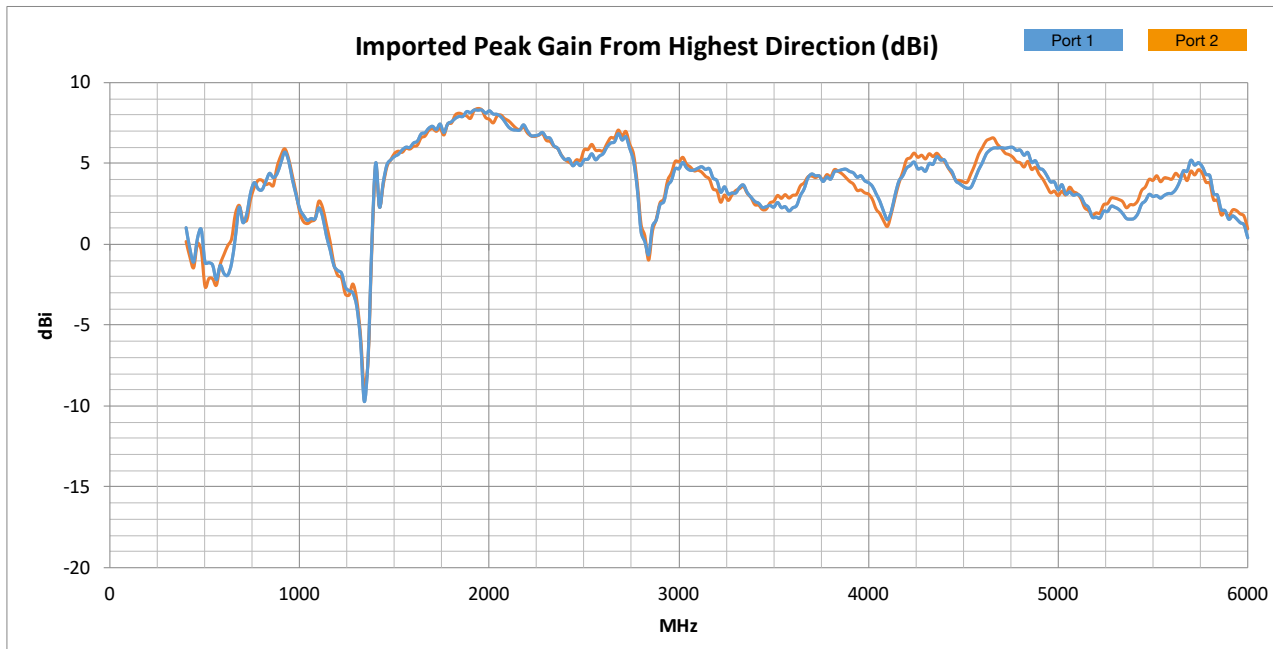
● Adequate band in good signal conditions

● Likely to be unsuitable

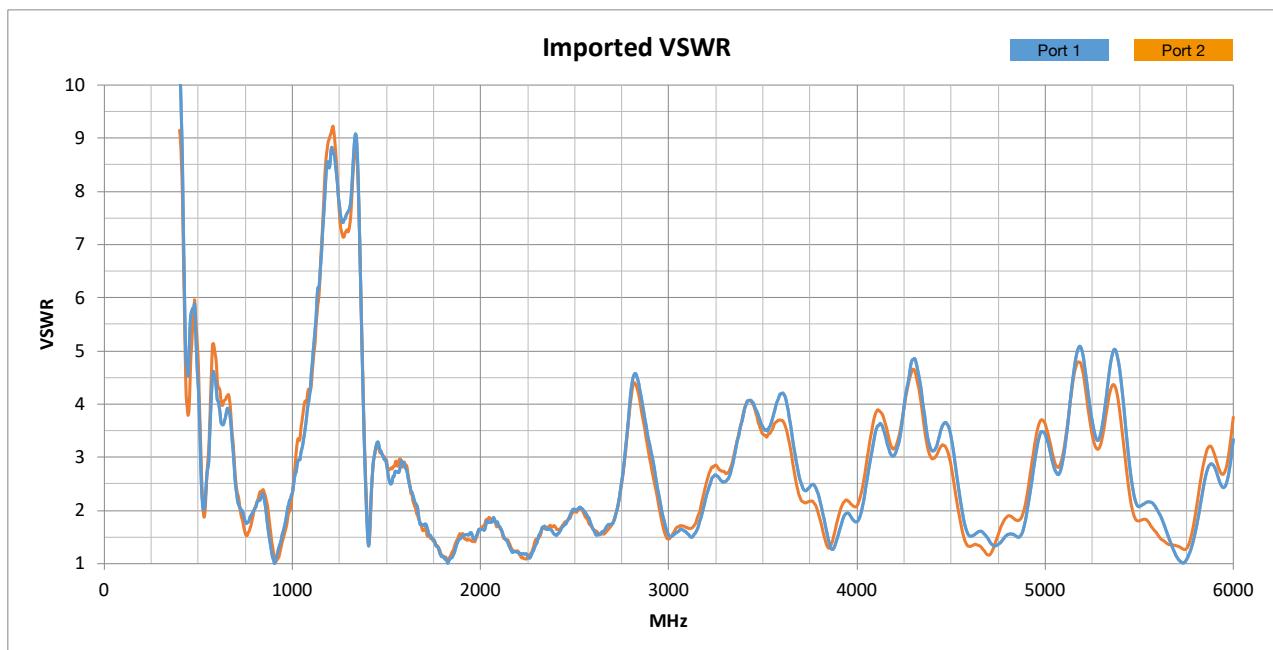
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Peak Gain vs. Frequency



VSWR

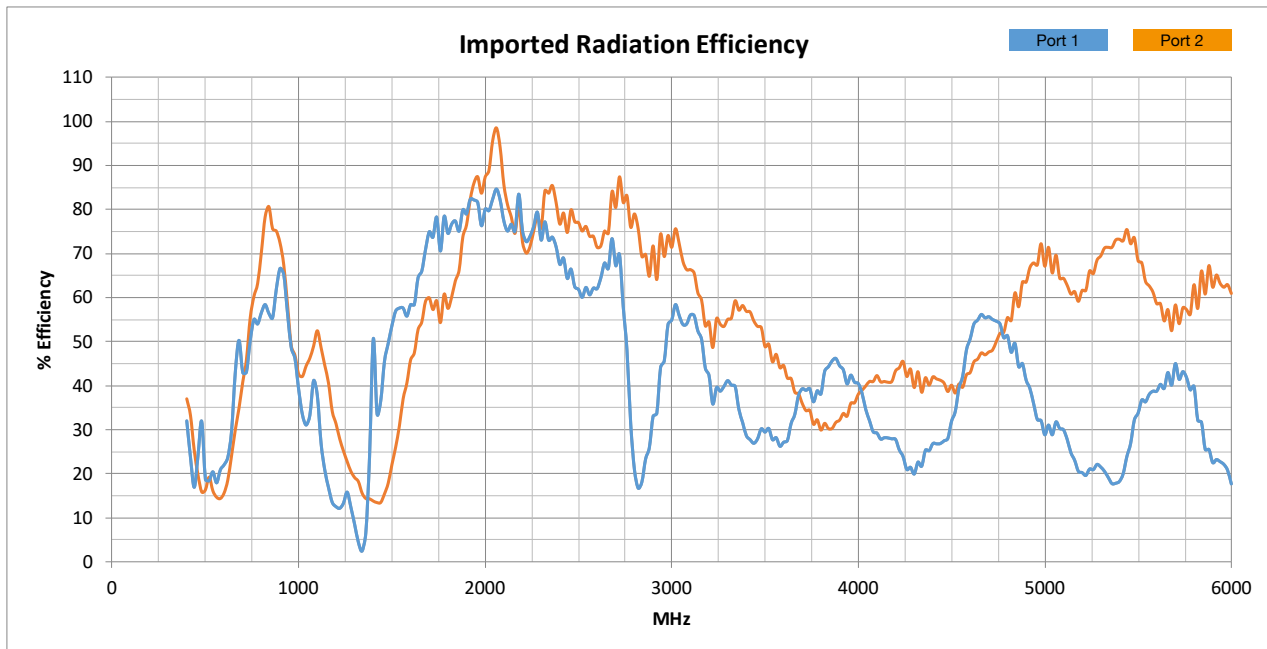




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Radiation Efficiency





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Usable Cellular Frequency Support (410 MHz – 1900 MHz)

	410	450	600	700	800	850	900	1500	1600	1700	1800	1900
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 (2000 MHz – 5900 MHz)

	2000	2100	2300	2400	2500	2600	3300	3500	3700	4700	5200	5900
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
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
	1	1	1	1	n1	n1		1920 - 1980 MHz	2110 - 2170 MHz	81.09	76.13	1.59	1.65	●
PCS-1900	2	2	2	2	n2	n2		1850 - 1910 MHz	1930 - 1990 MHz	78.31	80.25	1.53	1.65	●
DCS-1800	3	3	3	3	n3	n3		1710 - 1785 MHz	1805 - 1880 MHz	75.12	76.78	1.74	1.43	●
	4	4	4	4				1710 - 1755 MHz	2110 - 2155 MHz	75.42	75.97	1.74	1.65	●
GSM-850	5	5	5	5	n5	n5		824 - 849 MHz	869 - 894 MHz	56.92	62.09	2.32	1.70	●
	6							830 - 840 MHz	875 - 885 MHz	56.99	61.83	2.32	1.54	●
	7	7	7	7	n7	n7		2500 - 2570 MHz	2620 - 2690 MHz	61.24	68.45	2.06	1.75	●
E-GSM-900	8	8	8	8	n8	n8		880 - 915 MHz	925 - 960 MHz	65.10	55.77	1.43	1.75	●
	9	9						1749.9 - 1784.9 MHz	1844.9 - 1879.9 MHz	74.49	76.90	1.46	1.43	●
	10	10						1710 - 1770 MHz	2110 - 2170 MHz	74.63	76.13	1.74	1.65	●
	11	11	11	11				1427.9 - 1447.9 MHz	1475.9 - 1495.9 MHz	36.81	50.85	3.26	3.07	●
	12	12	12	12	n12	n12		699 - 716 MHz	729 - 746 MHz	43.10	49.23	2.44	2.00	●
	13	13	13	13	n13			777 - 787 MHz	746 - 756 MHz	54.41	52.90	1.96	1.83	●
	14	14	14	14	n14	n14		788 - 798 MHz	758 - 768 MHz	55.73	54.87	2.03	1.81	●
		17		17				704 - 716 MHz	734 - 746 MHz	43.10	50.07	2.30	2.00	●
		18	18	18	n18	n18		815 - 830 MHz	860 - 875 MHz	58.07	57.89	2.22	1.98	●
	19	19	19	19				830 - 845 MHz	875 - 890 MHz	56.78	62.46	2.32	1.54	●
	20	20	20	20	n20	n20		832 - 862 MHz	791 - 821 MHz	56.21	57.13	2.32	2.19	●
	21	21	21	21				1447.9 - 1462.9 MHz	1495.9 - 1510.9 MHz	43.47	54.25	3.29	2.95	●
	22	22						3410 - 3490 MHz	3510 - 3590 MHz	28.26	28.18	4.08	4.19	●
		24	24	24	n24	n24		1626.5 - 1660.5 MHz	1525 - 1559 MHz	64.21	57.57	2.43	2.74	●
	25	25	25	25	n25	n25		1850 - 1915 MHz	1930 - 1995 MHz	78.53	80.14	1.54	1.65	●
	26	26	26	26	n26	n26		814 - 849 MHz	859 - 894 MHz	57.29	60.57	2.32	2.00	●
		27	27					807 - 824 MHz	852 - 869 MHz	57.97	56.34	2.19	2.17	●
		28	28	28	n28	n28		703 - 748 MHz	758 - 803 MHz	46.14	55.08	2.33	2.06	●

● 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
		28A						703 - 733 MHz	758 - 788 MHz	44.13	54.60	2.33	1.96	●
		29			n29			N/A	717 - 728 MHz	N/A	44.18	N/A	2.09	●
		30			n30			2305 - 2315 MHz	2350 - 2360 MHz	75.19	73.62	1.57	1.66	●
		31	31	31				452.5 - 457.5 MHz	462.5 - 467.5 MHz	22.28	26.03	5.55	5.78	●
	32	32						N/A	1452 - 1496 MHz	N/A	48.26	N/A	3.29	●
		33						1900 - 1920 MHz	1900 - 1920 MHz	80.74	80.74	1.55	1.55	●
		34			n34			2010 - 2025 MHz	2010 - 2025 MHz	79.97	79.97	1.68	1.68	●
		35						1850 - 1910 MHz	1850 - 1910 MHz	78.31	78.31	1.53	1.53	●
		36						1930 - 1990 MHz	1930 - 1990 MHz	80.25	80.25	1.65	1.65	●
		37						1910 - 1930 MHz	1910 - 1930 MHz	81.97	81.97	1.55	1.55	●
		38			n38			2570 - 2620 MHz	2570 - 2620 MHz	62.56	62.56	1.88	1.88	●
		39	39		n39			1880 - 1920 MHz	1880 - 1920 MHz	80.14	80.14	1.55	1.55	●
		40	40		n40			2300 - 2400 MHz	2300 - 2400 MHz	73.23	73.23	1.71	1.71	●
		41	41	41	n41	n41		2496 - 2690 MHz	2496 - 2690 MHz	64.20	64.20	2.06	2.06	●
		42	42	42				3400 - 3600 MHz	3400 - 3600 MHz	28.32	28.32	4.20	4.20	●
		43	43	43				3600 - 3800 MHz	3600 - 3800 MHz	35.63	35.63	4.21	4.21	●
		44						703 - 803 MHz	703 - 803 MHz	50.89	50.89	2.33	2.33	●
		45						1447 - 1467 MHz	1447 - 1467 MHz	43.96	43.96	3.29	3.29	●
		46			n46			5150 - 5925 MHz	5150 - 5925 MHz	29.90	29.90	5.09	5.09	●
		47			n47			5855 - 5925 MHz	5855 - 5925 MHz	24.29	24.29	2.88	2.88	●
		48	48	48	n48			3550 - 3700 MHz	3550 - 3700 MHz	30.93	30.93	4.21	4.21	●
		49						3550 - 3700 MHz	3550 - 3700 MHz	30.93	30.93	4.21	4.21	●
		50			n50			1432 - 1517 MHz	1432 - 1517 MHz	47.46	47.46	3.29	3.29	●
		51			n51			1427 - 1432 MHz	1427 - 1432 MHz	35.11	35.11	2.97	2.97	●
		52						3300 - 3400 MHz	3300 - 3400 MHz	36.28	36.28	3.87	3.87	●

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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
		53			n53			2483.5 - 2495 MHz	2483.5 - 2495 MHz	62.25	62.25	2.03	2.03	●
								1670 - 1675 MHz	1670 - 1675 MHz	69.12	69.12	1.92	1.92	●
		65		65	n65	n65		1920 - 2010 MHz	2110 - 2200 MHz	80.36	77.44	1.65	1.65	●
		66	66	66	n66	n66		1710 - 1780 MHz	2110 - 2200 MHz	74.91	77.44	1.74	1.65	●
		67			n67			N/A	738 - 758 MHz	N/A	52.16	N/A	1.95	●
		68						698 - 728 MHz	753 - 783 MHz	43.52	54.46	2.48	1.93	●
		69						N/A	2570 - 2620 MHz	N/A	62.56	N/A	1.88	●
		70		70	n70	n70		1695 - 1710 MHz	1995 - 2020 MHz	74.62	79.92	1.75	1.65	●
		71	71	71	n71	n71		663 - 698 MHz	617 - 652 MHz	47.13	28.83	3.87	3.90	●
		72	72	72				451 - 456 MHz	461 - 466 MHz	21.75	25.43	5.47	5.76	●
		73	73	73				450 - 455 MHz	460 - 465 MHz	21.40	25.04	5.41	5.75	●
		74	74	74	n74	n74		1427 - 1470 MHz	1475 - 1518 MHz	40.76	52.86	3.29	3.07	●
		75			n75			N/A	1432 - 1517 MHz	N/A	47.46	N/A	3.29	●
		76			n76			N/A	1427 - 1432 MHz	N/A	35.11	N/A	2.97	●
					n77			3300 - 4200 MHz	3300 - 4200 MHz	34.72	34.72	4.21	4.21	●
					n78			3300 - 3800 MHz	3300 - 3800 MHz	32.84	32.84	4.21	4.21	●
					n79			4400 - 5000 MHz	4400 - 5000 MHz	43.16	43.16	3.66	3.66	●
					n80			1710 - 1785 MHz	N/A	75.12	N/A	1.74	N/A	●
					n81			880 - 915 MHz	N/A	65.10	N/A	1.43	N/A	●
					n82			832 - 862 MHz	N/A	56.21	N/A	2.32	N/A	●
					n83			703 - 748 MHz	N/A	46.14	N/A	2.33	N/A	●
					n84			1920 - 1980 MHz	N/A	81.09	N/A	1.59	N/A	●
		85	85	85	n85			698 - 716 MHz	728 - 746 MHz	43.13	49.06	2.48	2.00	●
					n86			1710 - 1780 MHz	N/A	74.91	N/A	1.74	N/A	●
		87	87	87				410 - 415 MHz	420 - 425 MHz	26.88	22.92	9.33	7.39	●

● 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
		88	88	88				412 - 417 MHz	422 - 427 MHz	26.05	22.24	9.05	6.98	●
					n89			824 - 849 MHz	N/A	56.92	N/A	2.32	N/A	●
					n90	n90		2496 - 2690 MHz	2496 - 2690 MHz	64.20	64.20	2.06	2.06	●
					n91			832 - 862 MHz	1427 - 1432 MHz	56.21	35.11	2.32	2.97	●
					n92			832 - 862 MHz	1432 - 1517 MHz	56.21	47.46	2.32	3.29	●
					n93			880 - 915 MHz	1427 - 1432 MHz	65.10	35.11	1.43	2.97	●
					n94			880 - 915 MHz	1432 - 1517 MHz	65.10	47.46	1.43	3.29	●
					n95			2010 - 2025 MHz	N/A	79.97	N/A	1.68	N/A	●
					n97			2300 - 2400 MHz	N/A	73.23	N/A	1.71	N/A	●
					n98			1880 - 1920 MHz	N/A	80.14	N/A	1.55	N/A	●
					n99			1626.5 - 1660.5 MHz	N/A	64.21	N/A	2.43	N/A	●
1900					n101			1900 - 1910 MHz	1900 - 1910 MHz	79.90	79.90	1.53	1.53	●
				103				787 - 788 MHz	757 - 758 MHz	55.03	54.47	1.96	1.77	●
								663 - 703 MHz	612 - 652 MHz	46.64	28.14	3.87	3.92	●
						n254		1610 - 1625.5 MHz	2483.5 - 2500 MHz	58.78	62.18	2.71	2.03	●
						n255		1626.5 - 1660.5 MHz	1525 - 1559 MHz	64.21	57.57	2.43	2.74	●
						n256		1980 - 2010 MHz	2170 - 2200 MHz	78.87	80.05	1.65	1.24	●

● 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.

ISM Standards Frequency Support

Application	Frequency Range	Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 433 MHz	433.05 - 434.79 MHz	19.05	4.99	-0.81	●
ISM 868 MHz	863 - 870 MHz	57.57	1.88	4.25	●
ISM 915 MHz	902 - 928 MHz	65.20	1.31	5.71	●
ISM 2.4 GHz	2400 - 2500 MHz	65.45	2.03	5.29	●
Wi-Fi 2.4G	2401 - 2483 MHz	66.10	1.98	5.29	●
Wi-Fi 2.4G (USA)	2401 - 2473 MHz	66.53	1.89	5.29	●
Wi-Fi 2.4G (Japan)	2401 - 2495 MHz	65.61	2.03	5.29	●
Wi-Fi 5G (all channels)	5150 - 5990 MHz	29.28	5.09	5.20	●
Wi-Fi 5G (Ch 32-48)	5150 - 5250 MHz	21.01	5.09	2.39	●
Wi-Fi 5G (Ch 32-64)	5150 - 5330 MHz	21.14	5.09	2.39	●
Wi-Fi 5G (Ch 32-161)	5150 - 5815 MHz	30.41	5.09	5.20	●
Wi-Fi 5G (Ch 32-173)	5150 - 5875 MHz	30.33	5.09	5.20	●
ISM 5.8 GHz	5725 - 5875 MHz	36.05	2.86	5.05	●
UWB band 1	3168 - 3696 MHz	33.62	4.21	4.45	●
UWB band 2	3696 - 4224 MHz	36.88	3.64	4.92	●
UWB band 3	4224 - 4752 MHz	36.52	4.86	6.00	●
UWB band 4	4752 - 5280 MHz	33.71	5.09	6.00	●
UWB band 5	5280 - 5808 MHz	32.64	5.04	5.20	●

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● Adequate band in good signal conditions

● Likely to be unsuitable

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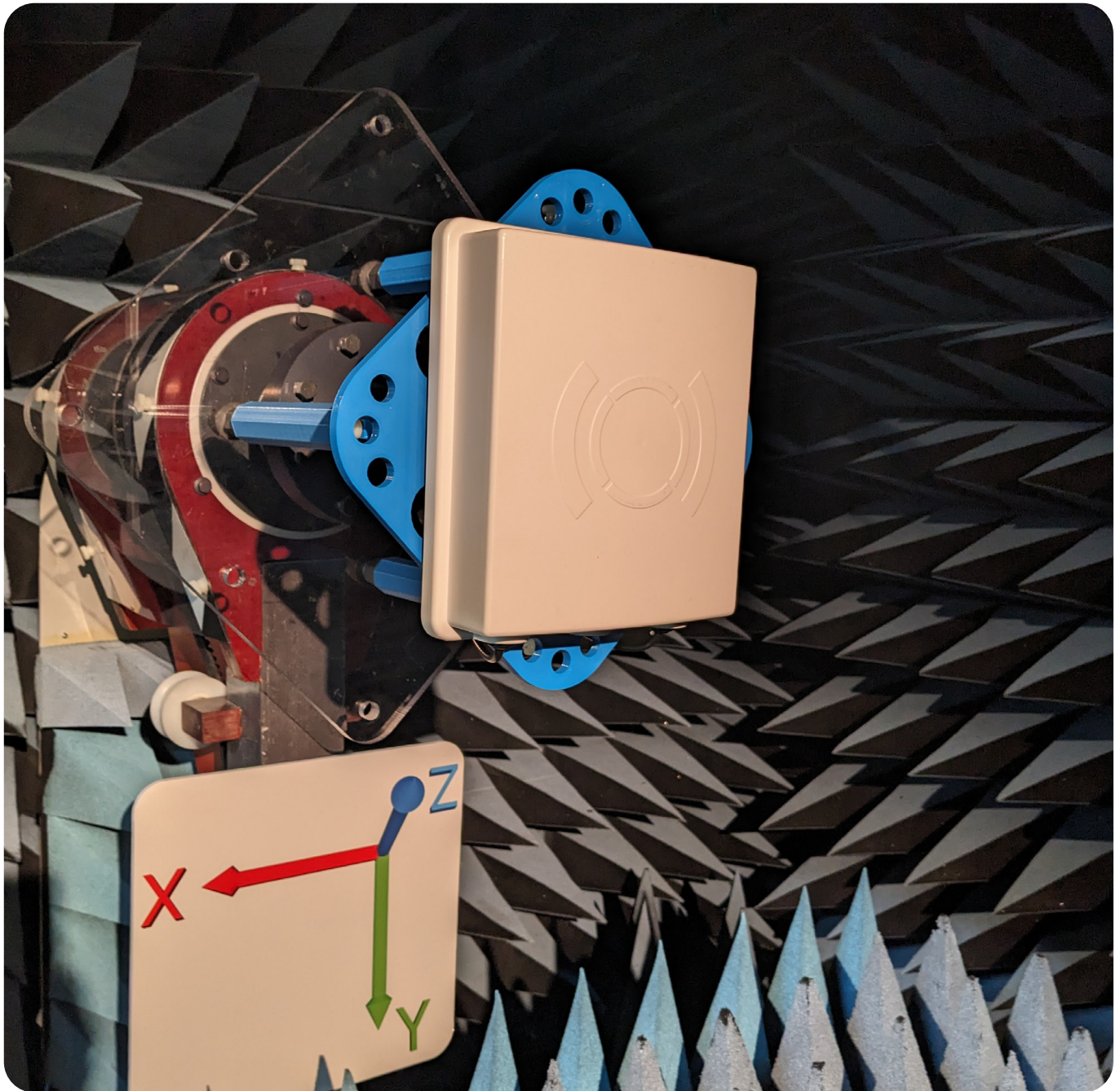
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Test Setup (in Free Space)



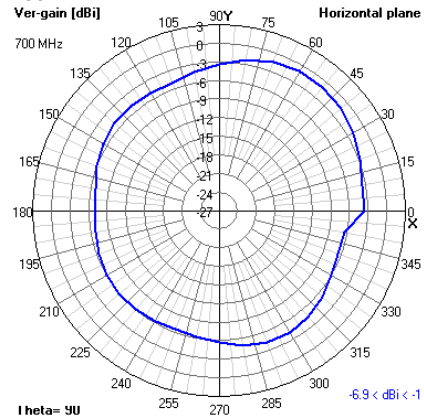


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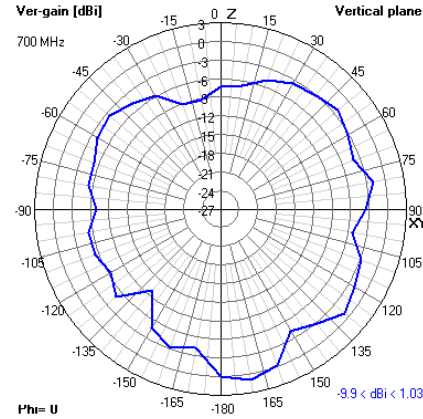
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2D Radiation Plots

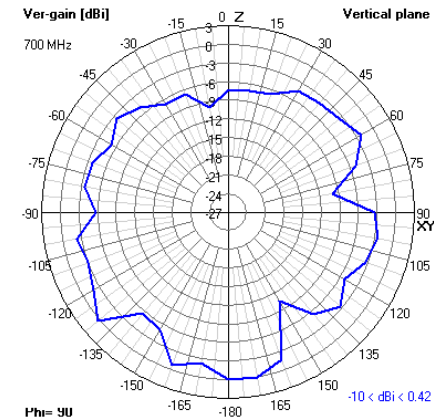
700 MHz XY



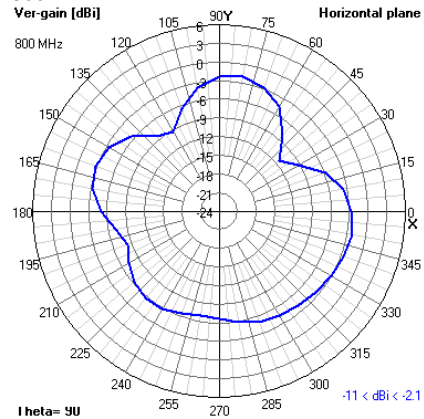
XZ



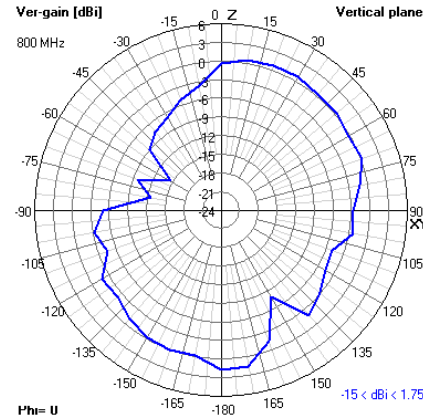
YZ



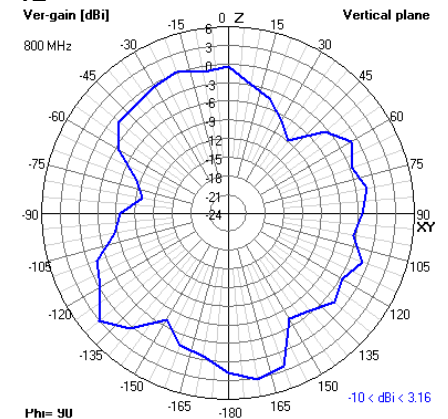
800 MHz XY



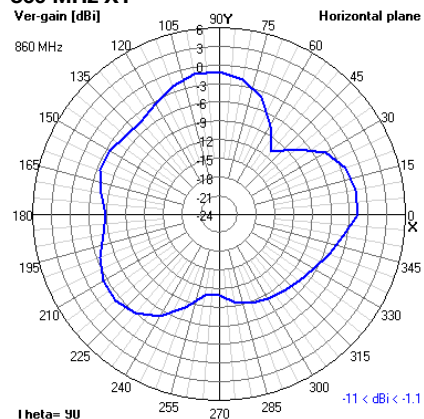
XZ



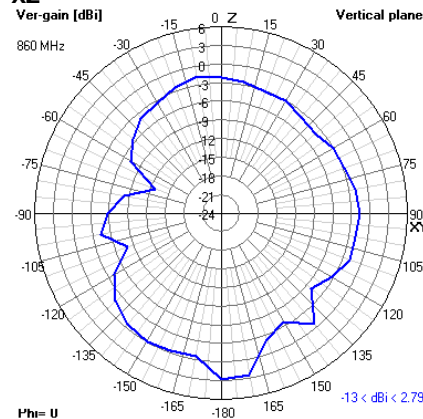
YZ



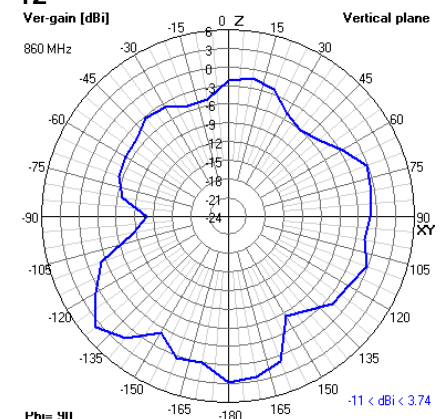
860 MHz XY



XZ



YZ

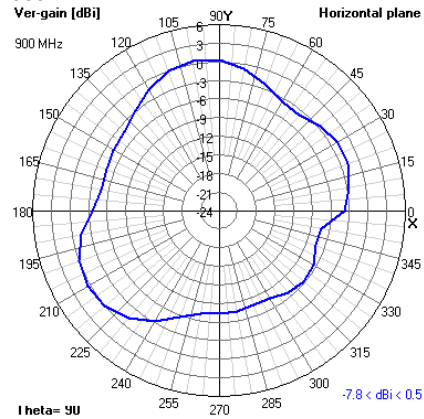


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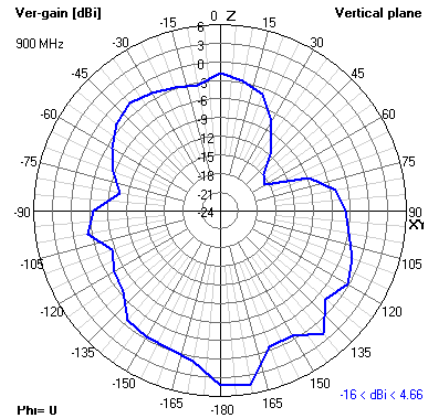
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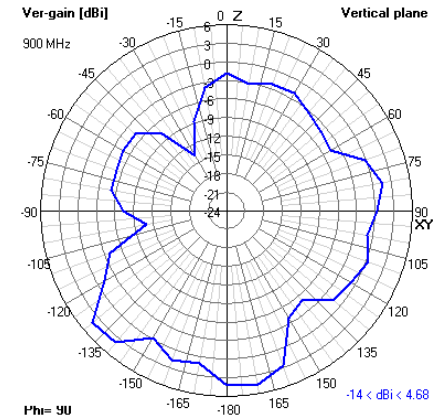
900 MHz XY



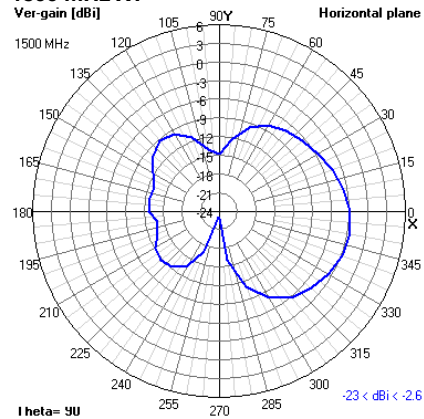
XZ



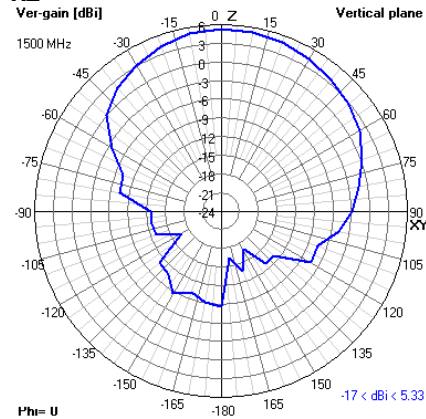
YZ



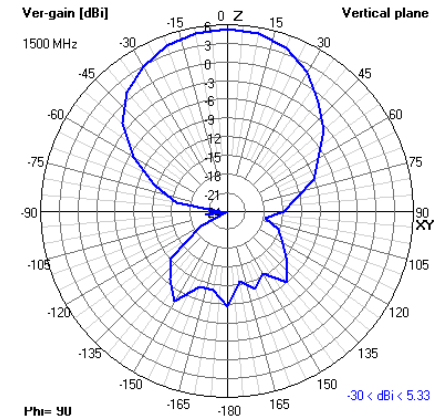
1500 MHz XY



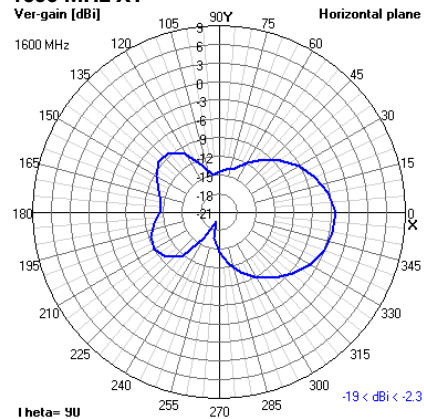
XZ



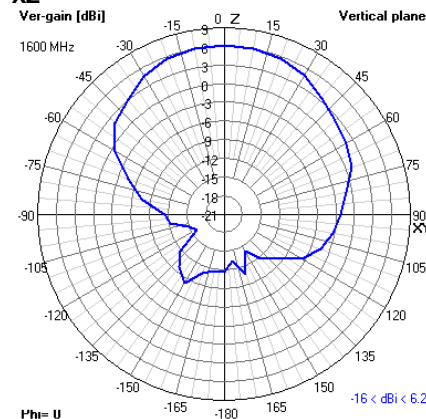
YZ



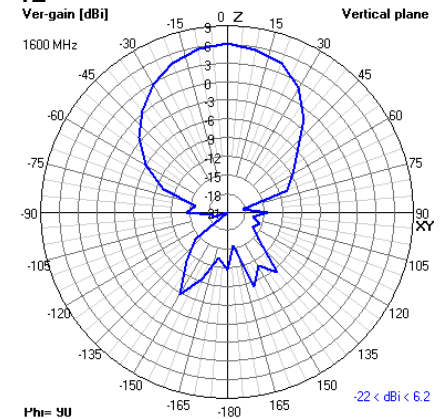
1600 MHz XY



XZ



YZ

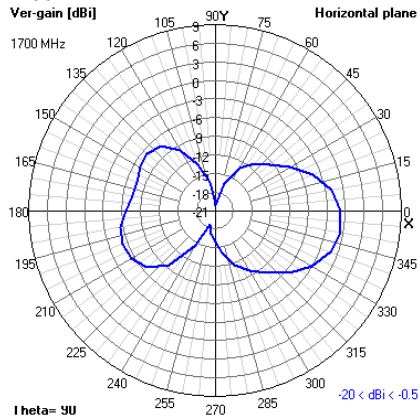


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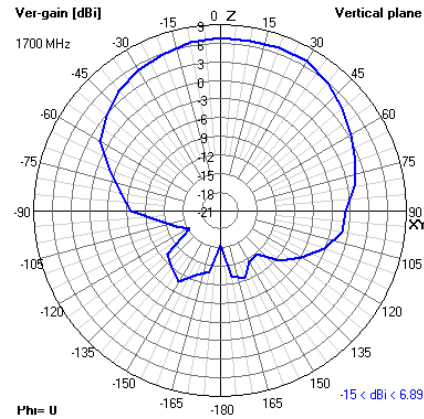
4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

2D Radiation Plots

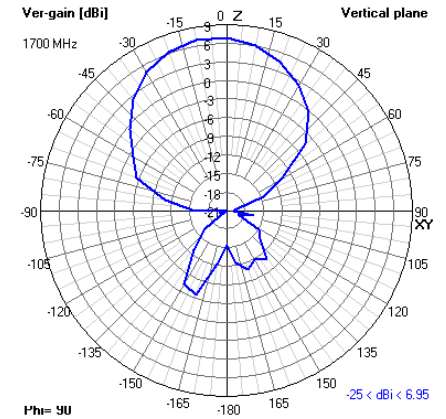
1700 MHz XY



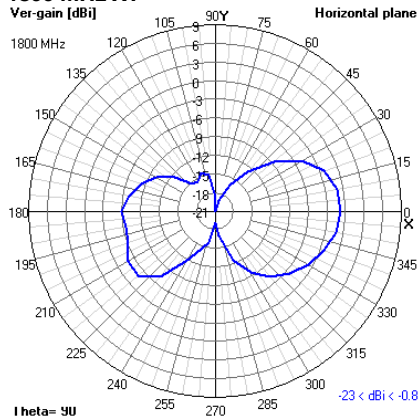
XZ



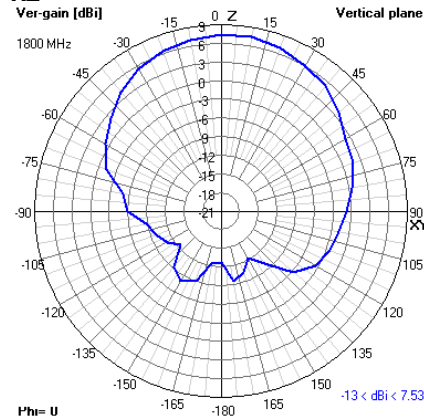
YZ



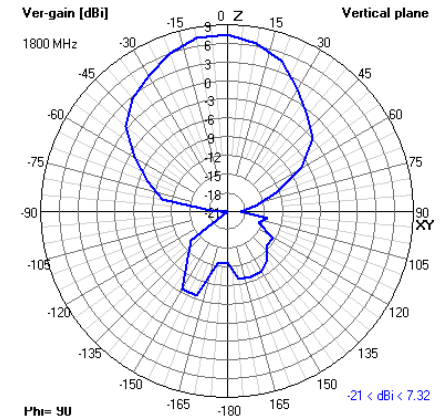
1800 MHz XY



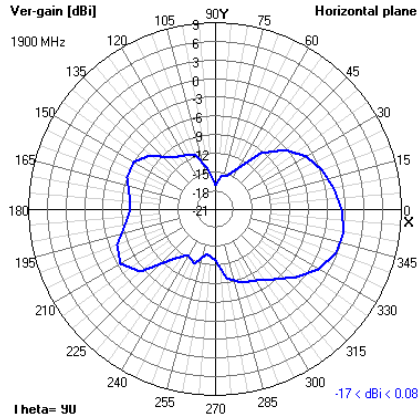
XZ



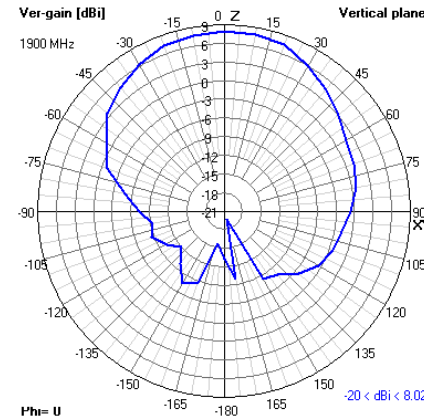
YZ



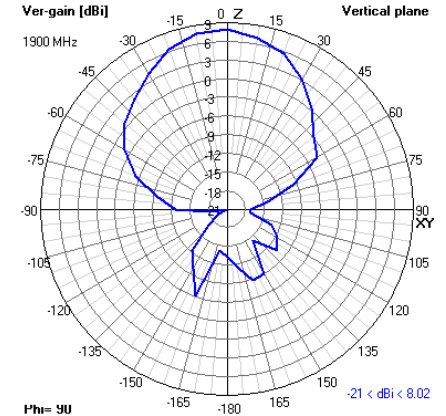
1900 MHz XY



XZ



YZ

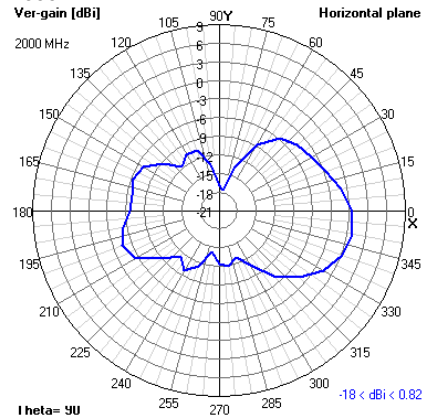


Oscar 421

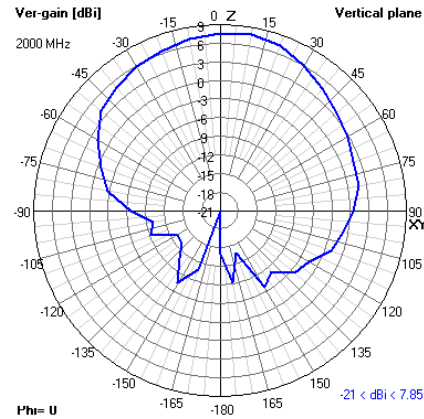
4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

2D Radiation Plots

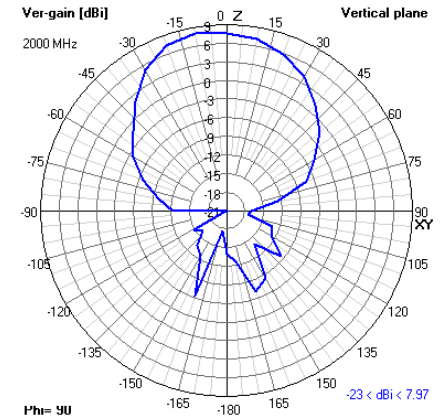
2000 MHz XY



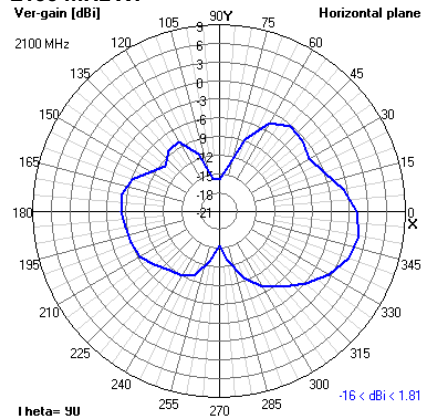
XZ



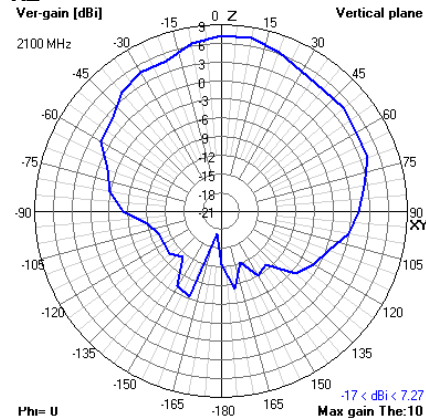
YZ



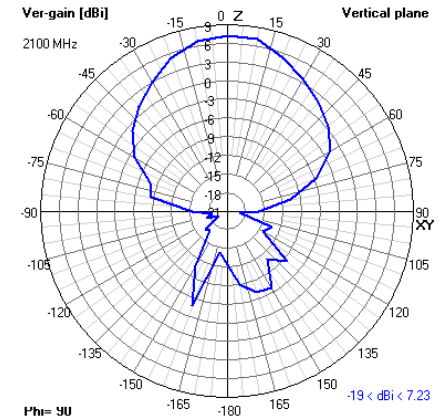
2100 MHz XY



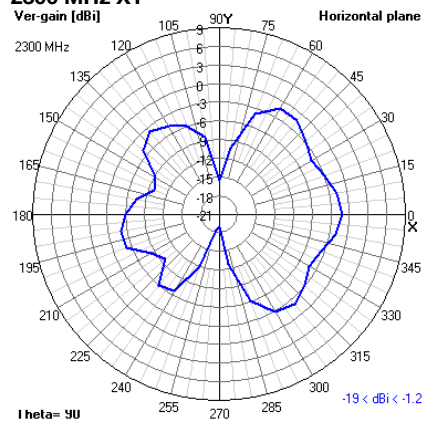
XZ



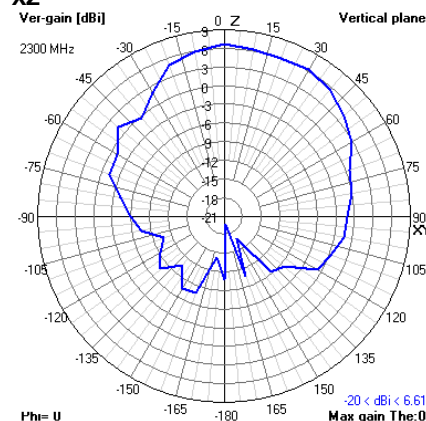
YZ



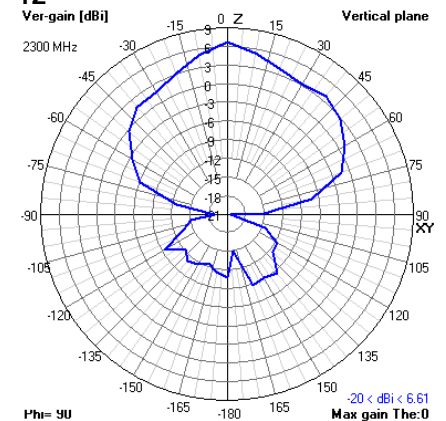
2300 MHz XY



XZ



YZ





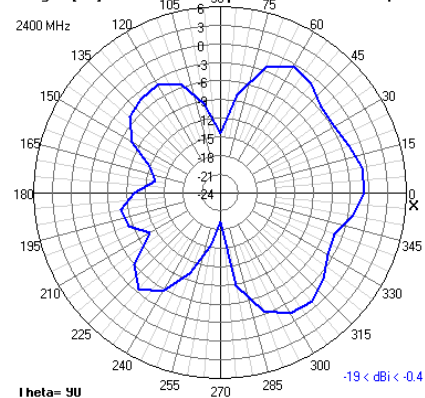
Oscar 421

4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

2D Radiation Plots

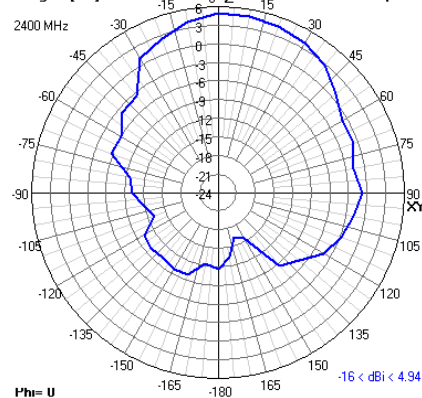
2400 MHz XY

Ver-gain [dBi]	1.05	90Y	75	Horizontal plane
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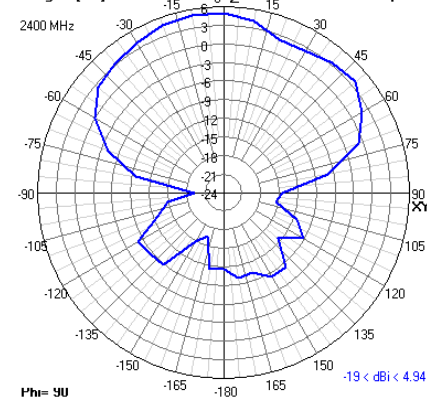
XZ

Ver-gain [dBi]	15	0	15	Vertical plane
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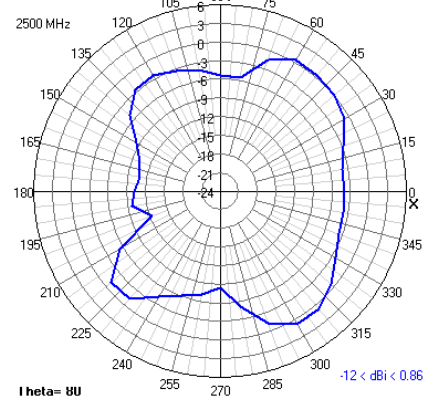
YZ

Ver-gain [dBi]	15	0	15	Vertical plane
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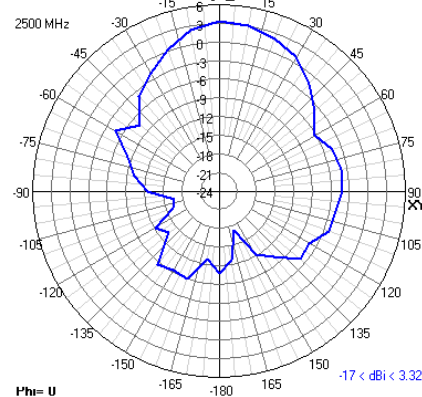
2500 MHz XY

Ver-gain [dBi]	105	90Y	75	Horizontal plane
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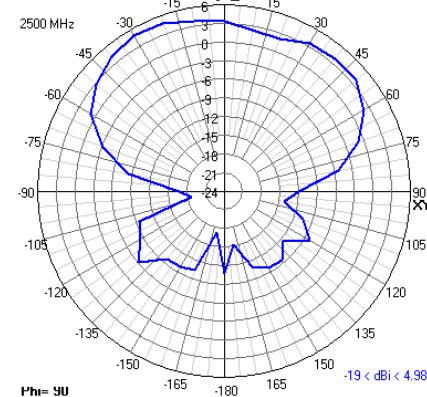
XZ

Ver-gain [dBi] -15 0 15 Vertical plane



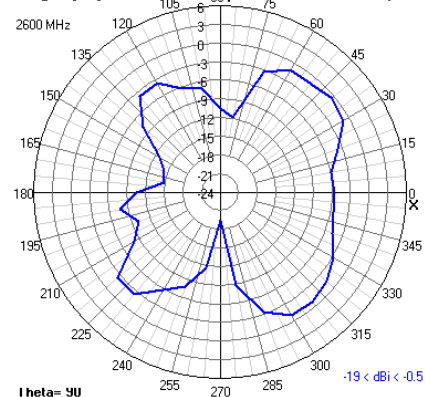
YZ

Ver-gain [dBi] -15 0 15 Vertical plane



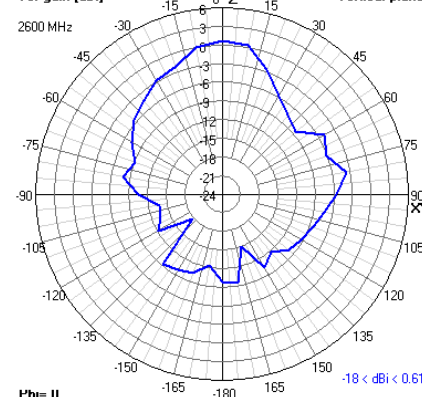
2600 MHz XY

Ver-gain [dBi] 10E 90Y 7E Horizontal plane



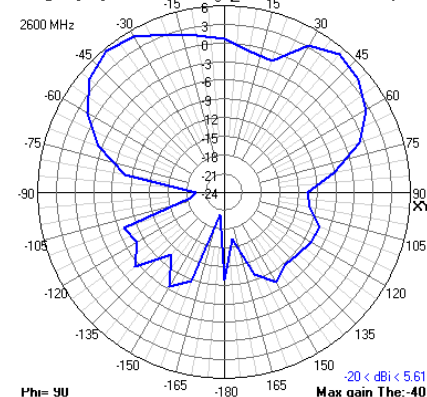
XZ

Ver-gain [dBi]	-15	0	15	Vertical plane
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YZ

Ver-gain [dBi] 15 0 15 Vertical plane

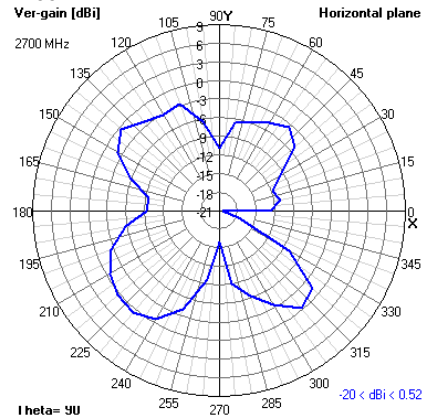


Oscar 421

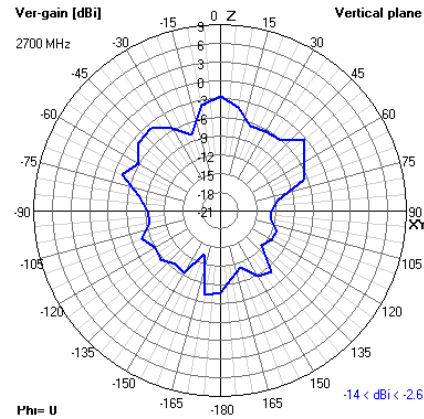
4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

2D Radiation Plots

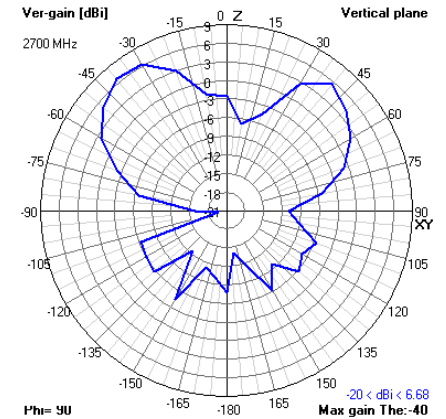
2700 MHz XY



XZ



YZ



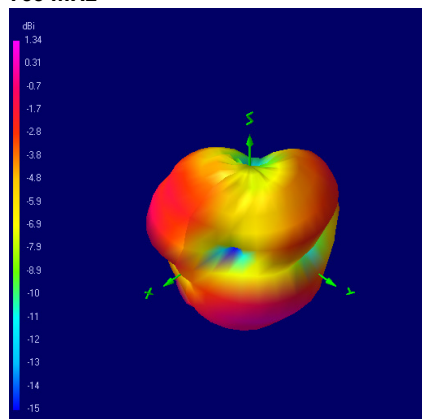


Oscar 421

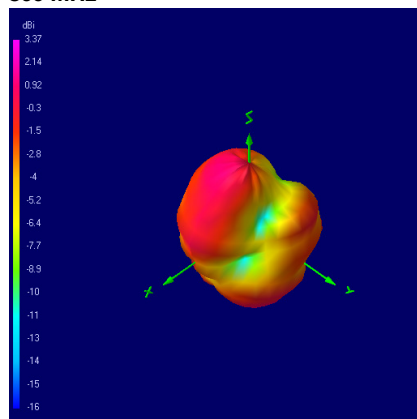
4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

3D Radiation Plots

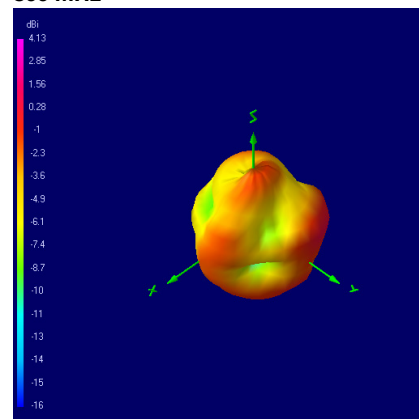
700 MHz



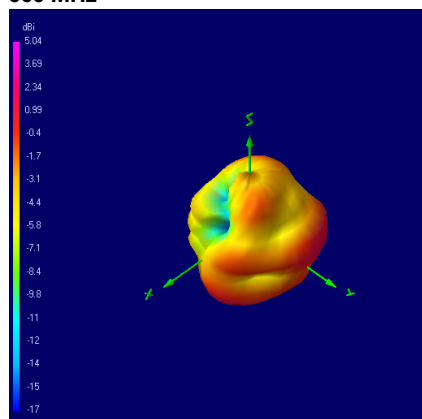
800 MHz



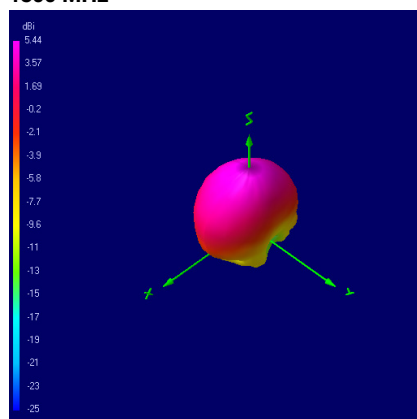
860 MHz



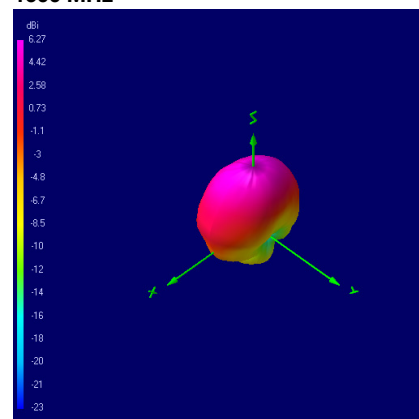
900 MHz



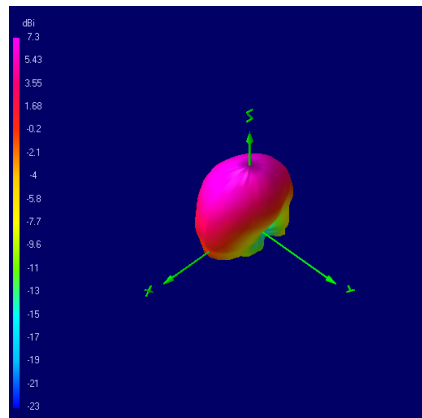
1500 MHz



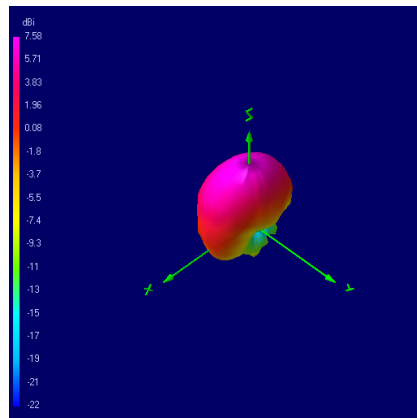
1600 MHz



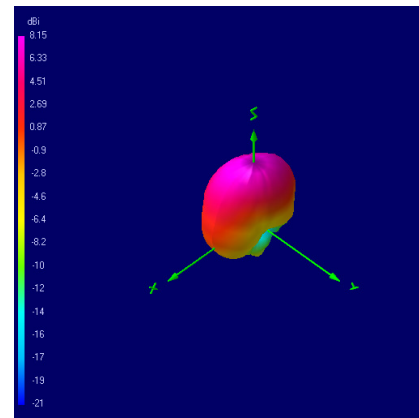
1700 MHz



1800 MHz



1900 MHz

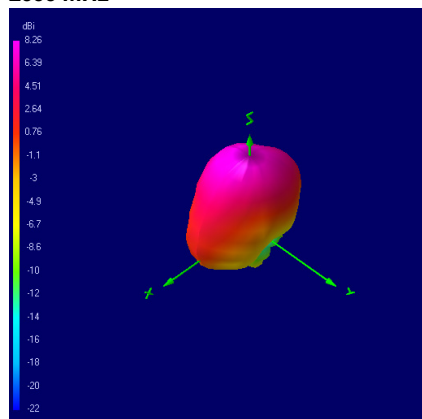


Oscar 421

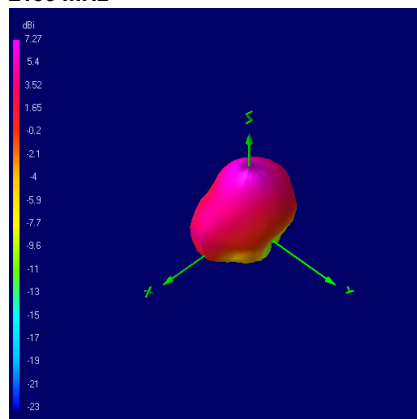
4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

3D Radiation Plots

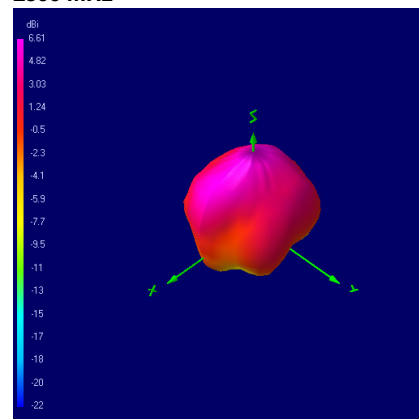
2000 MHz



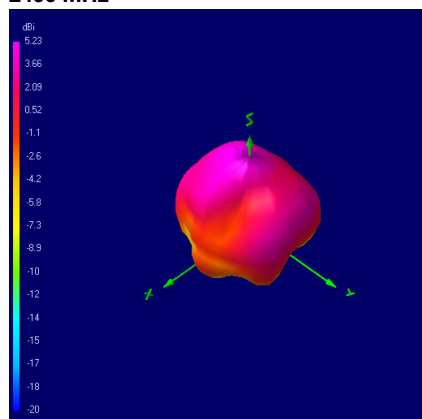
2100 MHz



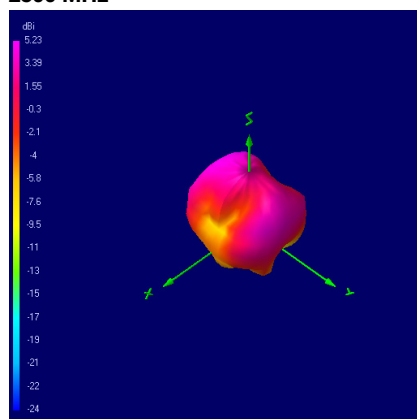
2300 MHz



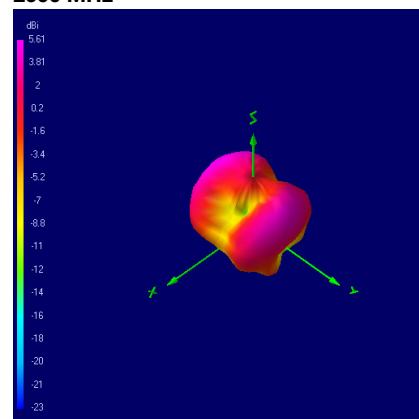
2400 MHz



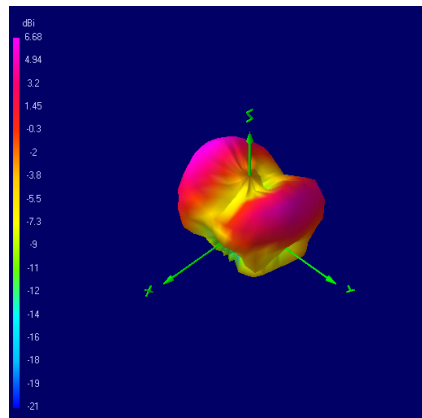
2500 MHz



2600 MHz



2700 MHz



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



Oscar 421

4G LTE MIMO Directional Fixed Wireless Access Panel Antenna

Ordering Details:

Part Number	Description
OSCAR421/0.4M/NTYPEF/S/S/19	4G LTE MIMO Directional Fixed Wireless Access Panel Antenna 2 x 0.4 M Cables

Associated Cables:

Part Number	Description
ASMA500R058L13	SMA (M) to N-Type (M) 5M Low Loss (LLC200A) Cable Assembly
ASMR1000A058L13	N-Type (M) to SMA (M) 10M Low Loss (LLC200A) Cable Assembly