

NANEA189X182DJVCGWM8C502A0F

GNSS, 5G MIMO & WIFI MIMO External Active Antenna



Description

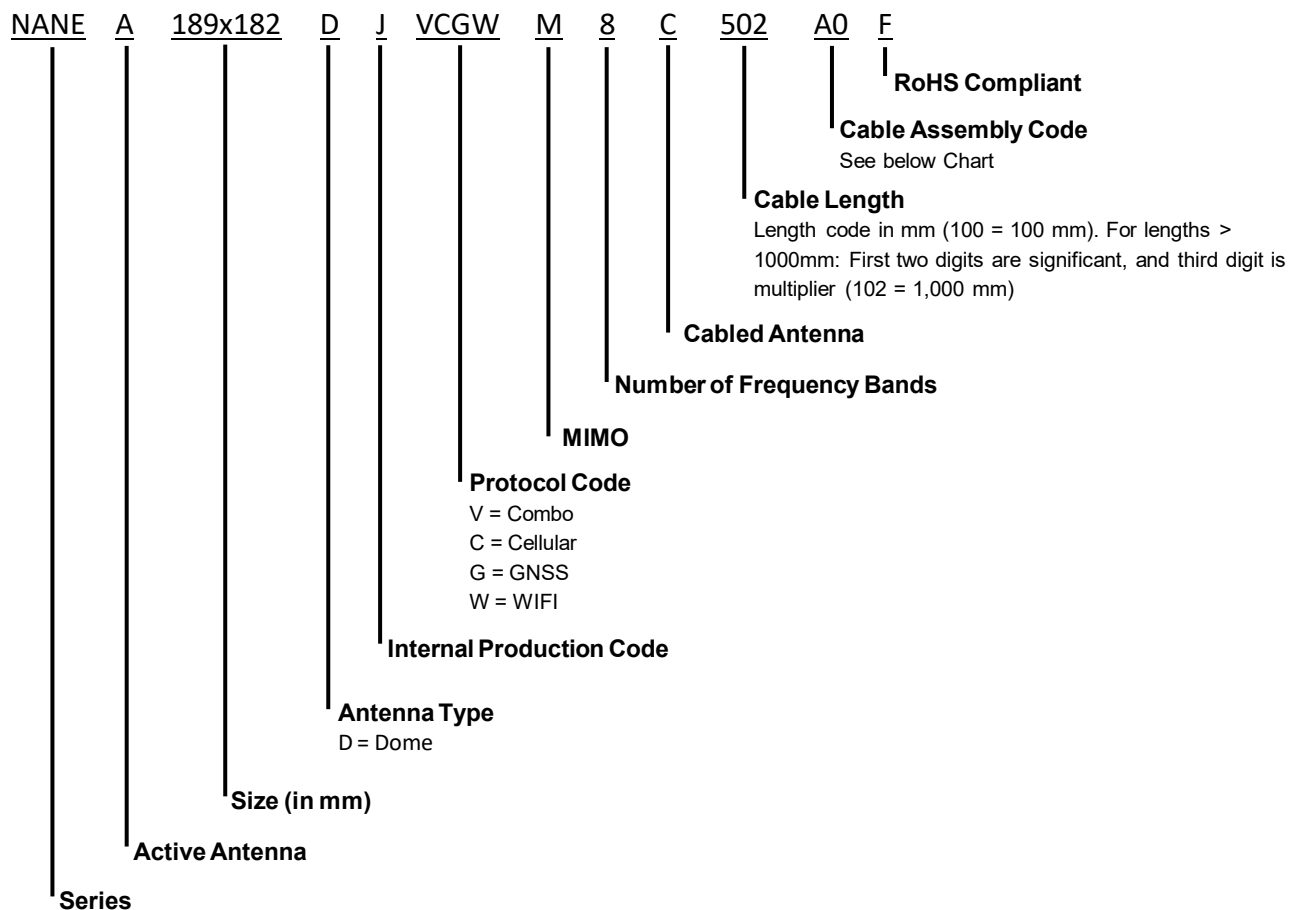
NANEA189X182DJVCGWM8C502A0F is an External Active Antenna designed for GNSS, 5G MIMO and WIFI MIMO applications. It operates within the frequency ranges of GNSS L1, L2, L5 Bands, 698~960MHz, 1710~2690MHz, 2900~3800MHz, 2400~2483.5 MHz and 4900~5925MHz making it perfect for Tracking, IoT, Gateways and Routers.



Features

- GNSS Protocol
- 5G MIMO + WIFI MIMO
- Waterproof IP67 Ratings
- Customizable Connector Options and Cable Lengths
- RoHS Compliant

Part Number Breakdown



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Part Number Options

Part Number	Protocol	Connector	Cable Type	Cable Length
NANEA189X182DJVCGWM8C502A0F	GNSS	SMA MALE	RG174	5000 mm
	WIFI MIMO (2 Ports)	SMA MALE	RG174	5000 mm
	5G /LTE MIMO (4 Ports)	SMA MALE	RG174	5000 mm

The table represents assembled part numbers available on www.niccomp.com. For options not listed above please contact NIC

Specifications

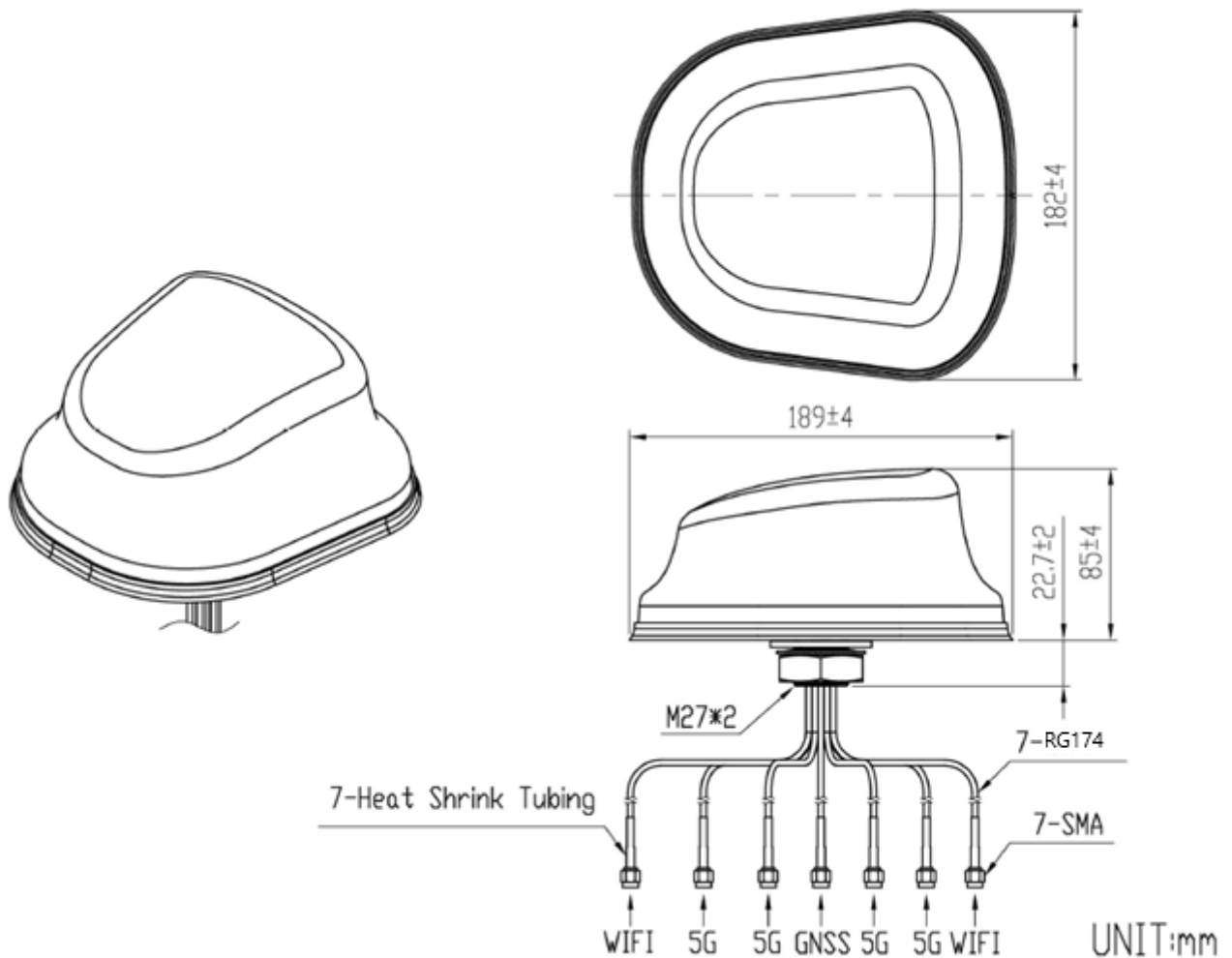
Electrical		
Antenna	GNSS	
Frequency Bands	GPS L1/L2/L5 GLONASS G1/G2/G3 COMPASS B1/B2/B3 Galileo E1/L1/E2/E5a/E5b/E6	
Gain	40 ± 2dB	
Noise Figure	≤ 2.0 dB	
Supply Voltage	3~12V DC	
Current Consumption	≤ 60mA	
V.S.W.R.	< 2.0	
Polarization	RHCP	
Impedance	50 Ω	
Antenna	5G MIMO	WiFi MIMO
Frequency Range	698~960 MHz 1710~2690 MHz 2900~3800MHz	2400 ~2483.5 MHz 4900~5925 MHz
V.S.W.R	< 3.0	<2.5
Gain	4 dBi (typ.)	
Polarization	Linear	
Impedance	50 Ω	
Environmental		
Operating Temperature	-40°C~+85°C	
Relative Humidity	Up to 95%	
Vibration	10 to 55Hz with 1.5 mm amplitude 2hours	
Ingress Protection	IP67 (exclude cable outlet)	
Material	PC / ABS	
Mounting method	Screw	
ROHS Compliant	Yes	

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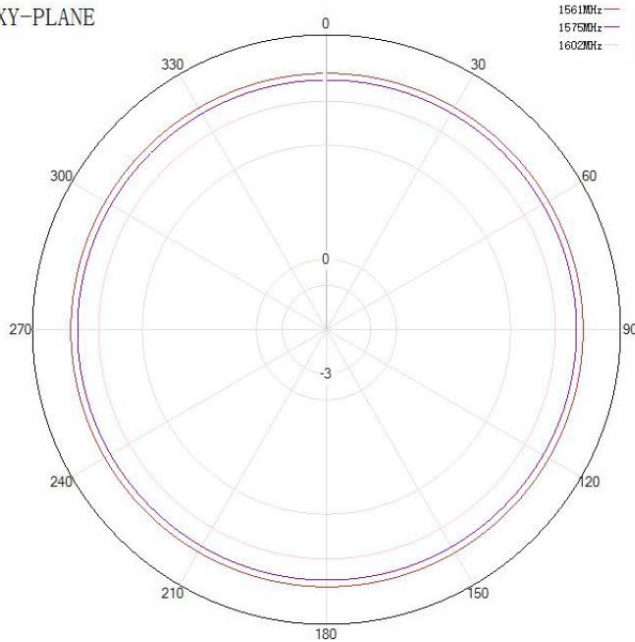
Dimensions



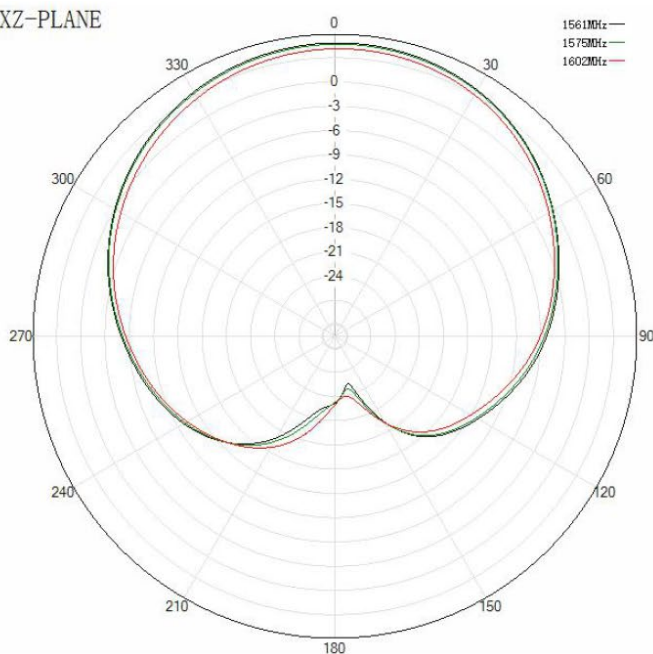
Radiation Patterns

GNSS Antenna

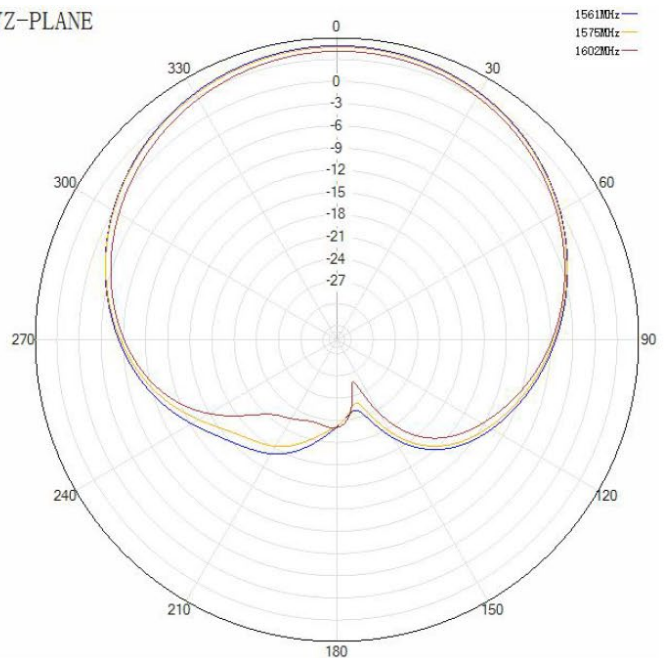
XY-PLANE



XZ-PLANE



YZ-PLANE

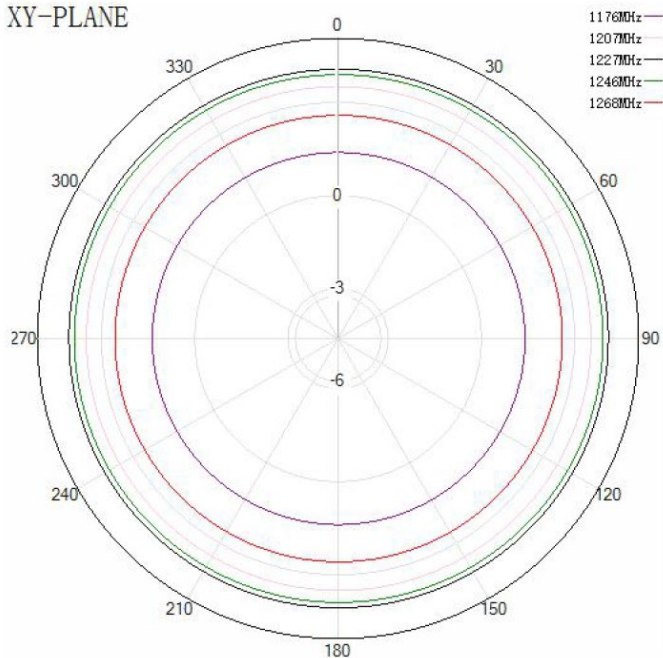


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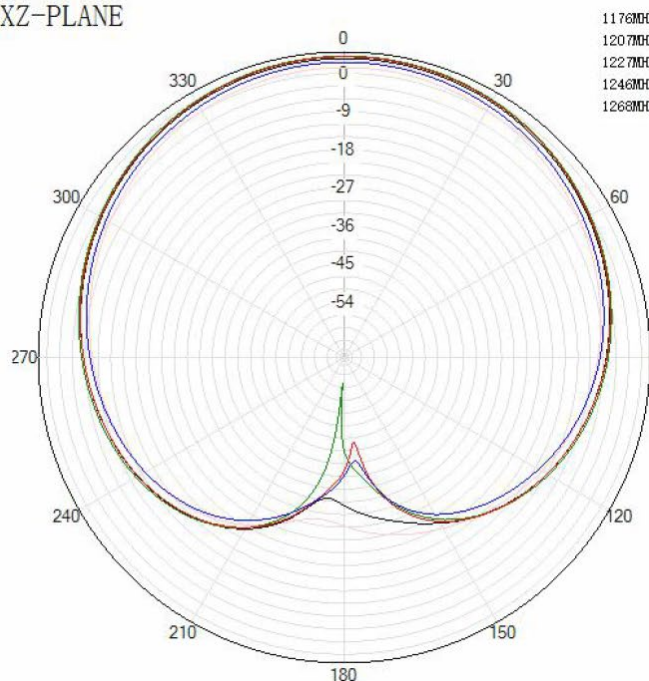
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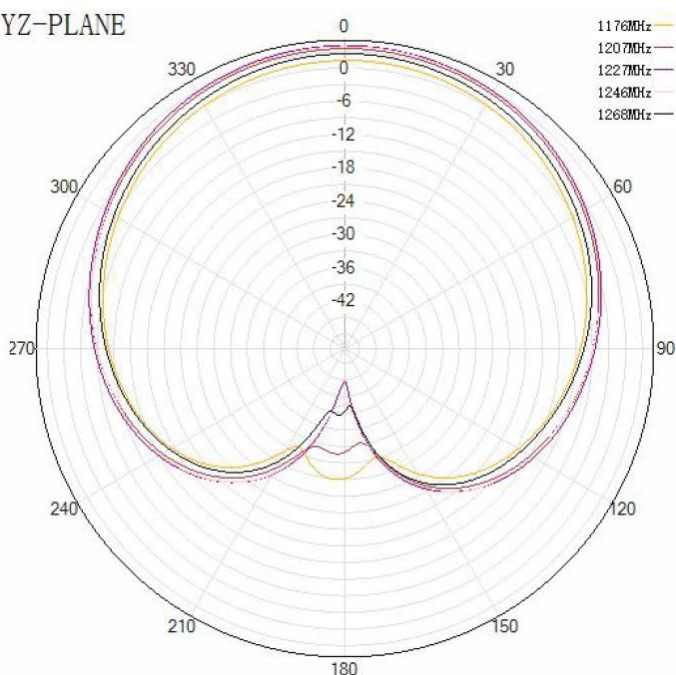
XY-PLANE



XZ-PLANE



YZ-PLANE

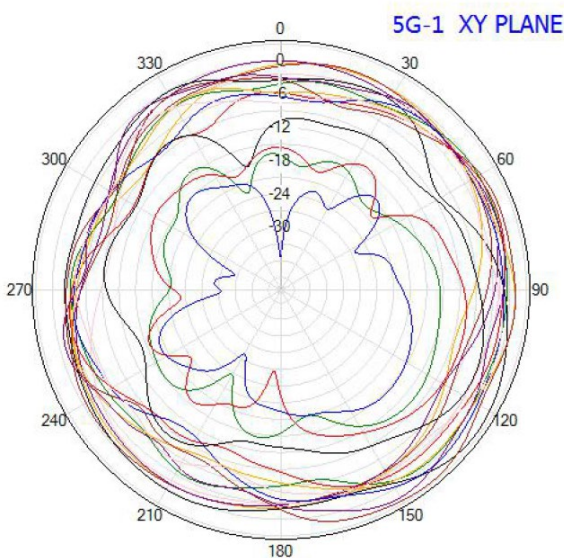


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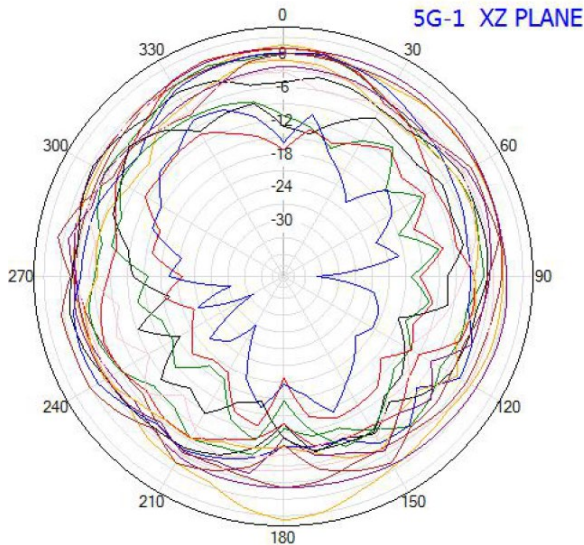
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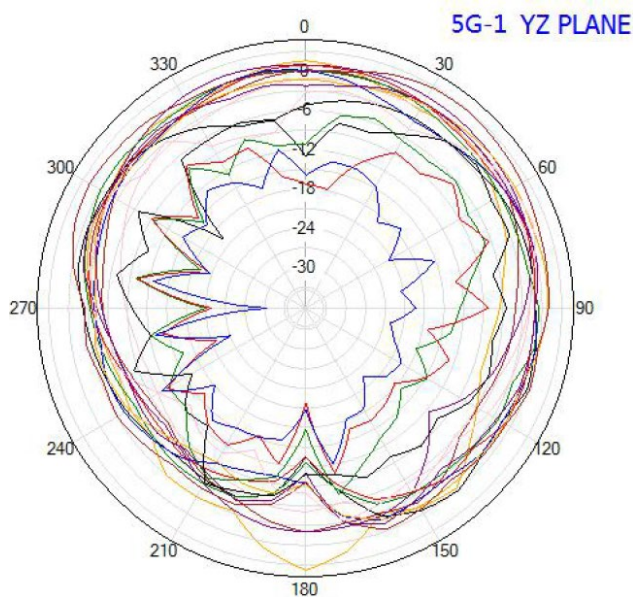
5G NR Antenna



1710MHz
1850MHz
1990MHz
2170MHz
2300MHz
2500MHz
2690MHz
3300MHz
3800MHz
4400MHz
4800MHz
5000MHz
696MHz
824MHz
868MHz
960MHz



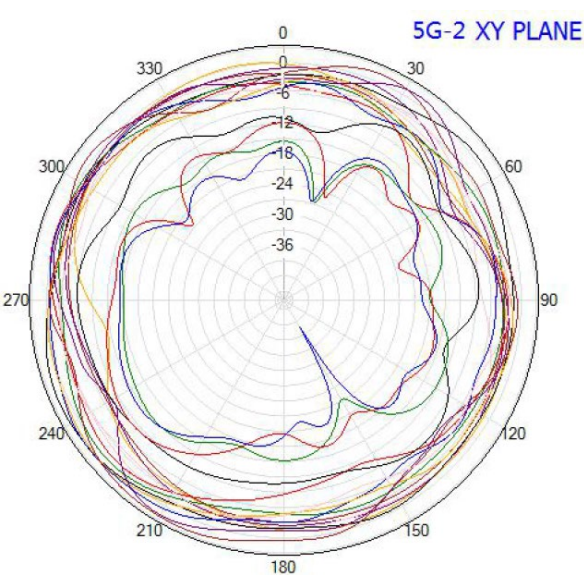
1710MHz
1850MHz
1990MHz
2170MHz
2300MHz
2500MHz
2690MHz
3300MHz
3800MHz
4400MHz
4800MHz
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696MHz
824MHz
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960MHz



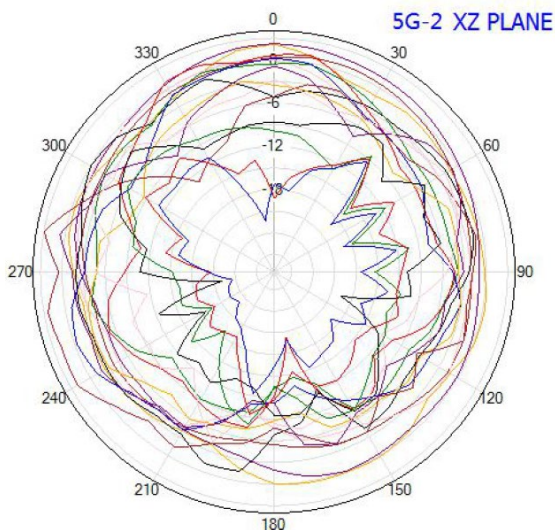
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824MHz
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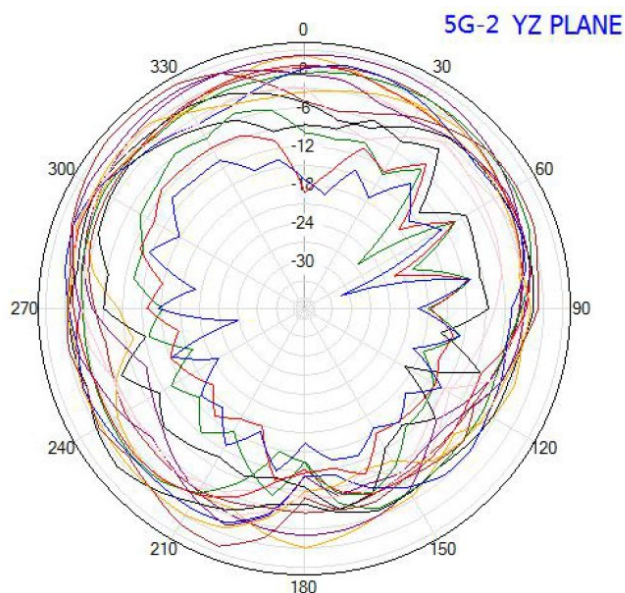
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1710MHz
1850MHz
1990MHz
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2500MHz
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3800MHz
4400MHz
4800MHz
5000MHz
6980MHz
8240MHz
8680MHz
9600MHz



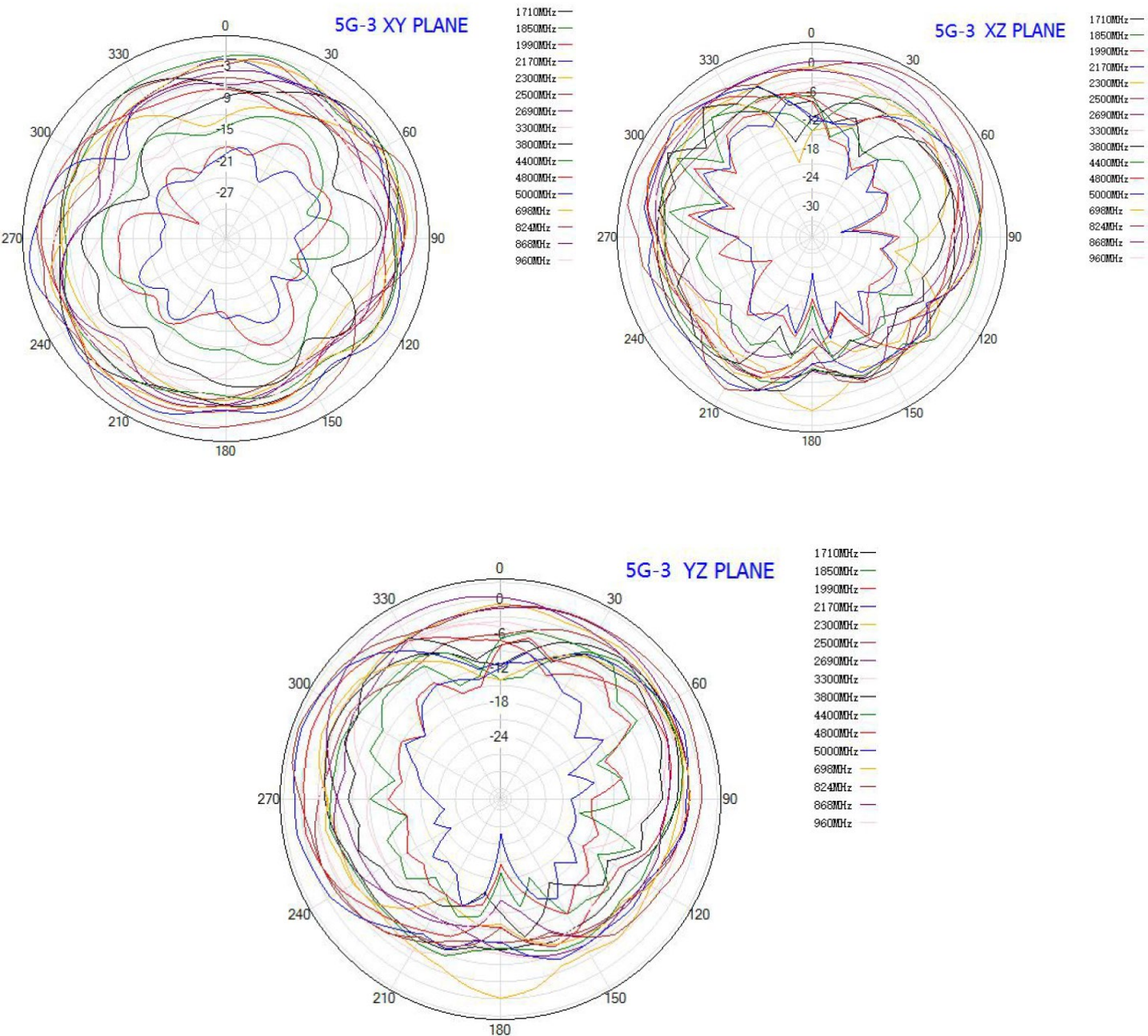
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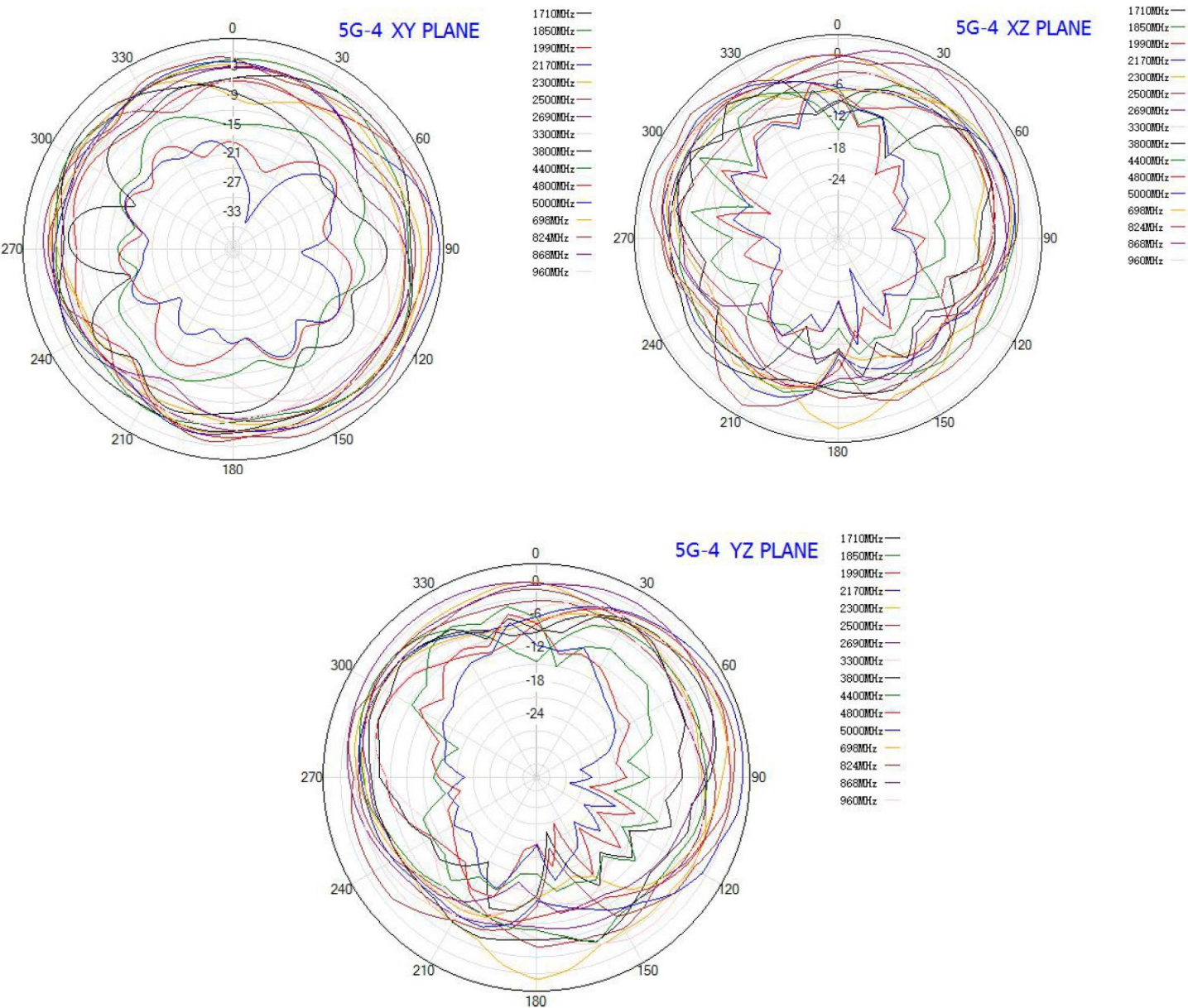
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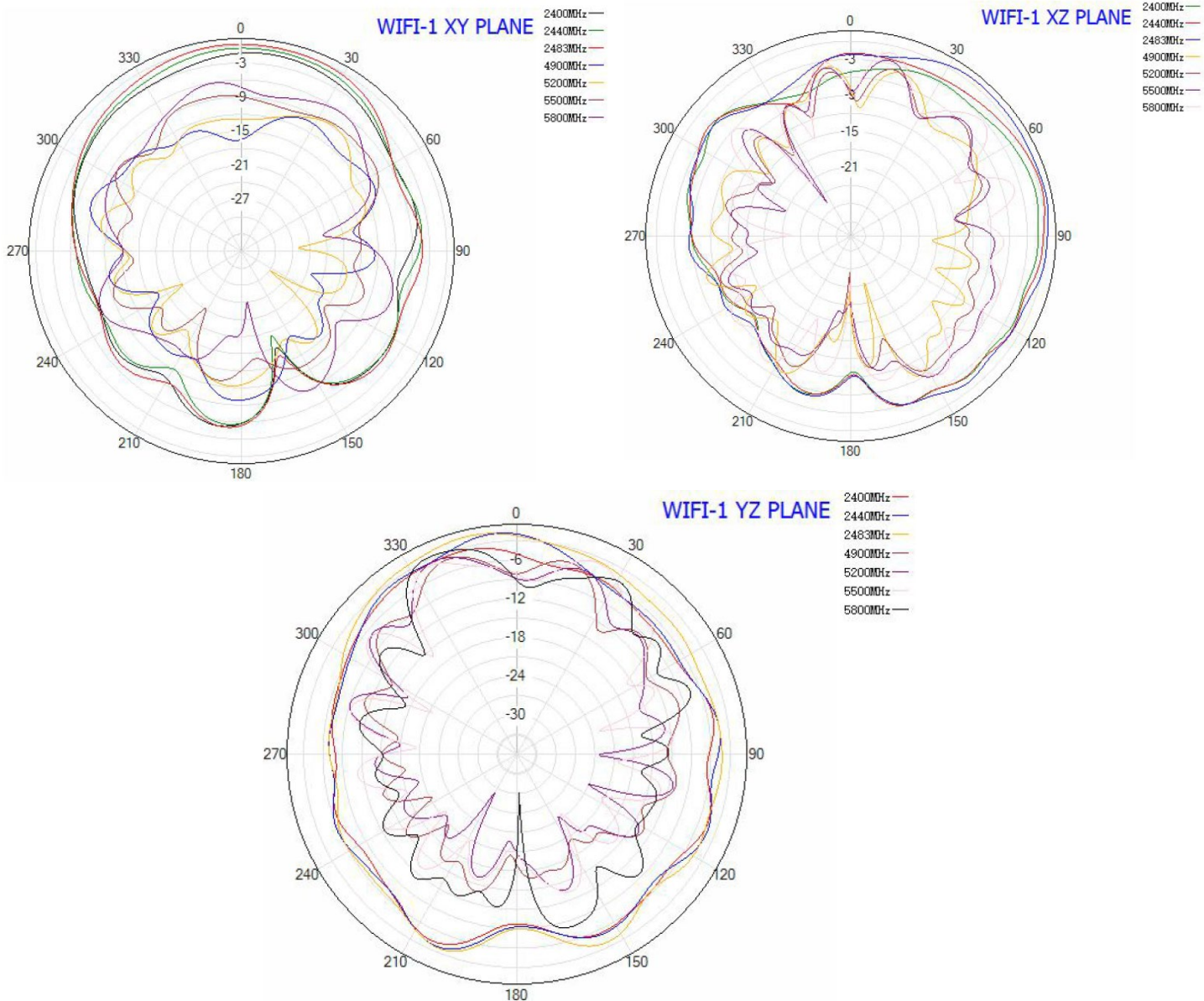


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WIFI Antenna



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