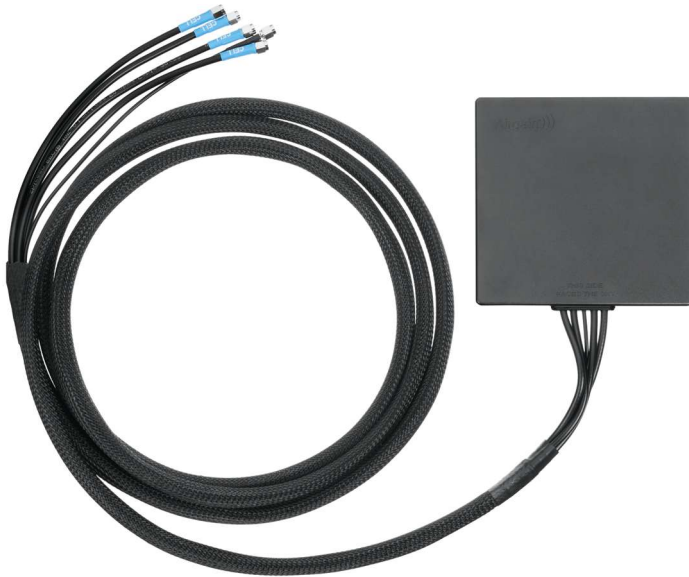


# ULTRAMAX™ Glass 5G

Up to 5-in-1 High Performance Windshield Mount Antenna



## KEY FEATURES

- Powerful MIMO technology
- Up to 4 x LTE/5G (600 MHz - 6 GHz) elements
- Up to 4 x Wi-Fi 6/6E/7 (2.4 & 5-7.1 GHz) elements
- Optional GNSS element
- Available in black

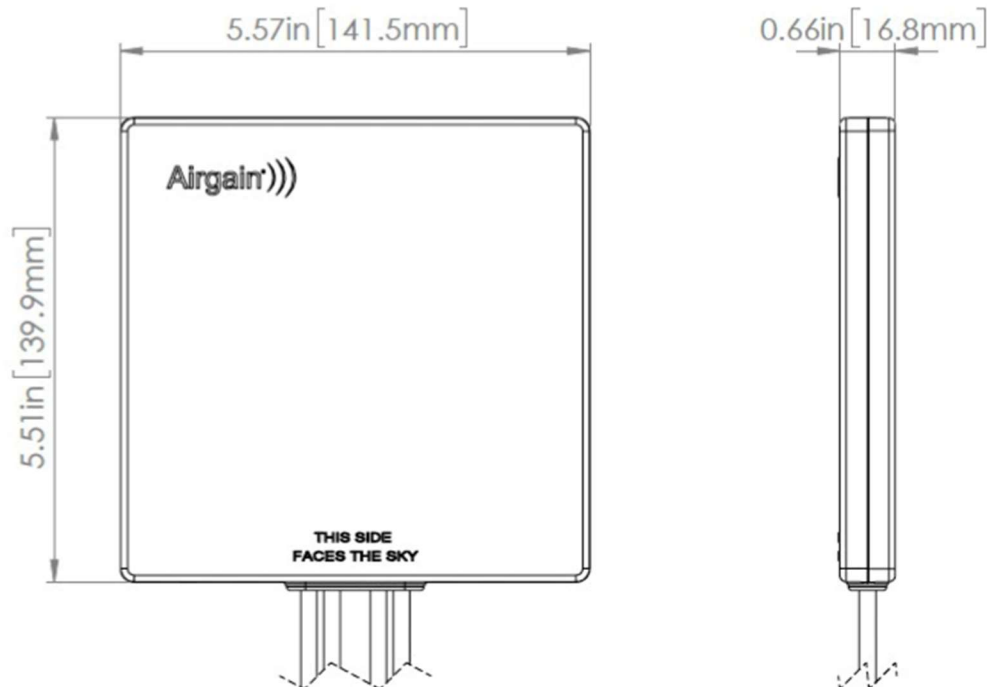
## ADVANTAGES

- High efficiency provides better performance
- Omni-directional radiation pattern provides uniform coverage
- Hidden inside the vehicle
- Avoid drilling any holes
- 5-year limited warranty included<sup>1</sup>

ULTRAMAX Glass 5G is designed to provide high performance LTE and 5G connectivity for Fleet and Public Safety vehicles and assets. This antenna can be mounted on either the windshield or the dashboard and connects to virtually any vehicular router or modem.

<sup>1</sup>See terms and conditions at <https://airgain.com/antenna-plus-support/>

## DIMENSIONS



For more Information:

[www.airgain.com](http://www.airgain.com) [sales@airgain.com](mailto:sales@airgain.com) + 1-855-AIRGAIN

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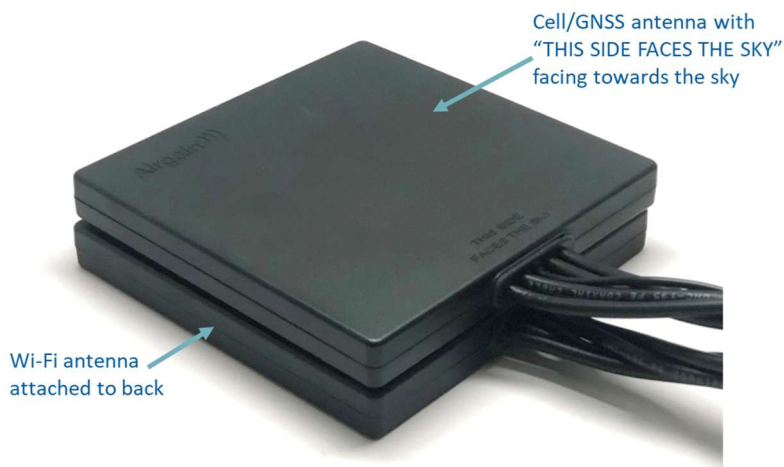
Up to 5-in-1 High Performance Windshield Mount Antenna

## COMMON PART NUMBERS (inquire to Airgain for other configurations)

Configuration *Stacked Option	Cellular Elements	Wi-Fi Elements	GNSS	Part Number	Description
9-in-1*	4	4	Yes	AP-GL5G-C4G-BL-10	MIMO LTE/5G (600 MHz-6 GHz) x 4 & GNSS, Adhesive Mount, SMA on Cell & GNSS, Black, 10ft LMR195 coax
				AP-GL5G-W4-BL-10	MIMO Wi-Fi x 4, Adhesive Mount, RP-SMA on Wi-Fi, Black, 10ft LMR195 coax
7-in-1*	4	2	Yes	AP-GL5G-C4G-BL-10	MIMO LTE/5G (600 MHz-6 GHz) x 4 & GNSS, Adhesive Mount, SMA on Cell & GNSS, Black, 10ft LMR195 coax
				AP-GL5G-W2-BL-10	MIMO Wi-Fi x 2, Adhesive Mount, RP-SMA on Wi-Fi, Black, 10ft LMR195 coax
5-in-1	4	0	Yes	AP-GL5G-C4G-BL-10	MIMO LTE/5G (600 MHz-6 GHz) x 4 & GNSS, Adhesive Mount, SMA on Cell & GNSS, Black, 10ft LMR195 coax
	2	2	Yes	AP-GL5G-C2W2G-BL-10	MIMO LTE/5G (600 MHz-6 GHz) x 2, Wi-Fi x 2 & GNSS, Adhesive Mount, SMA on Cell & GNSS, RP-SMA on Wi-Fi, Black, 10ft LMR195 coax
	0	4	Yes	AP-GL5G-W4G-BL-10	MIMO Wi-Fi x 4 & GNSS, Adhesive Mount, RP-SMA on Wi-Fi, SMA on GNSS, Black, 10ft LMR195 coax
4-in-1	4	0	No	AP-GL5G-C4-BL-10	MIMO LTE/5G (600 MHz-6 GHz) x 4, Adhesive Mount, SMA on Cell, Black, 10ft LMR195 coax
	2	1	Yes	AP-GL5G-C2WG-BL-10	MIMO LTE/5G (600 MHz-6 GHz) x 2, Wi-Fi x 1 & GNSS, Adhesive Mount, SMA on Cell & GNSS, RP-SMA on Wi-Fi, Black, 10ft LMR195 coax

For mounting instructions please visit <https://www.airgain.com/installation-and-removal-guides/>.

**Note:** Cell/GNSS antenna can be stacked on top of a Wi-Fi antenna with similar performance to the non-stacked antennas.



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**ULTRAMAX™ Glass 5G**

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**TECHNICAL SPECIFICATIONS**

Performance results are measured in a test chamber with 1' LMR-195 cables, providing more reliable results than software simulations.

**ELECTRICAL**

Frequency Range	Cell Elements 1 up to 4	617-960/1700-2700/3300-4200/5150-5850 MHz
	Wi-Fi Elements 1 up to 4	2.4/5.15-7.125 GHz
	Element 5 (optional)	1550~1610 MHz
Operational Bands	Cell Elements 1 up to 4	5G (Band 71, LTE, CBRS, LAA)
	Wi-Fi Elements 1 up to 4	Wi-Fi 6E
	Element 5 (optional)	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1
Peak Gain: Isotropic	Cell Elements 1 up to 4	617-960 MHz: 4.1 dBi
		1700-2700 MHz: 7.2 dBi
		3300-4200 MHz: 6.2 dBi
		5150-5850 MHz: 5.0 dBi
	Wi-Fi Elements 1 up to 4	2.4 GHz: 4.4 dBi
		5-7 GHz: 5.6 dBi
	Element 5 (optional)	35.8 dBi
Isolation	Cell Elements 1 up to 4	617-960 MHz: >8.0 dB
		1700-2700 MHz: >14.6 dB
		3300-4200 MHz: >19.0 dB
		5150-5850 MHz: >25.8 dB
	Wi-Fi Elements 1 up to 4	2.4 GHz: >21.6 dB
		5-7 GHz: >25.3 dB
Average Efficiency	Cell Elements 1 up to 4	617-960 MHz: 58%
		1700-2700 MHz: >68%
		3300-4200 MHz: >66%
		5150-5850 MHz: >57%
	Wi-Fi Elements 1 up to 4	2.4 GHz: >60%
		5-7 GHz: >60%
Correlation Co-efficient	Cell Elements 1 up to 4	617-960 MHz: <0.18
		1700-5850 MHz: <0.03

Guidance for interpreting the data sheet is available on our website:

<https://www.airgain.com/resources/datasheet-term-guide/>

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ENVIRONMENTAL

Category	Details
Hazardous Substances	RoHS Compliant
Temperature	-40°C to 85°C (-40°F to + 185°F) Operating and Storage
Humidity (Non-Condensing)	95% RH at 60°C Operating and Storage
Shock and Vibration	Conformance to MIL-STD 810G

MECHANICAL

Dimensions	Height	5.5" (140mm)
	Width	5.6" (142mm)
	Thickness	0.66" (16.8mm)
Color	Black (BL)	
Adhesive Pad	3M 5962VHB double sided adhesive tape for mounting on top or bottom surface of antenna	

CABLE

Cell	Type	LMR-195 Low Loss
	Diameter	0.195" (4.95mm)
	Length	10 ft (3.0m)
	Termination	SMA Male
Wi-Fi	Type	LMR-195 Low Loss
	Diameter	0.195" (4.95mm)
	Length	10 ft (3.0m)
	Termination	RP-SMA Male
GNSS	Type	RG-174U
	Diameter	0.100" (2.54mm)
	Length	10 ft (3.0m)
	Termination	SMA Male

GNSS

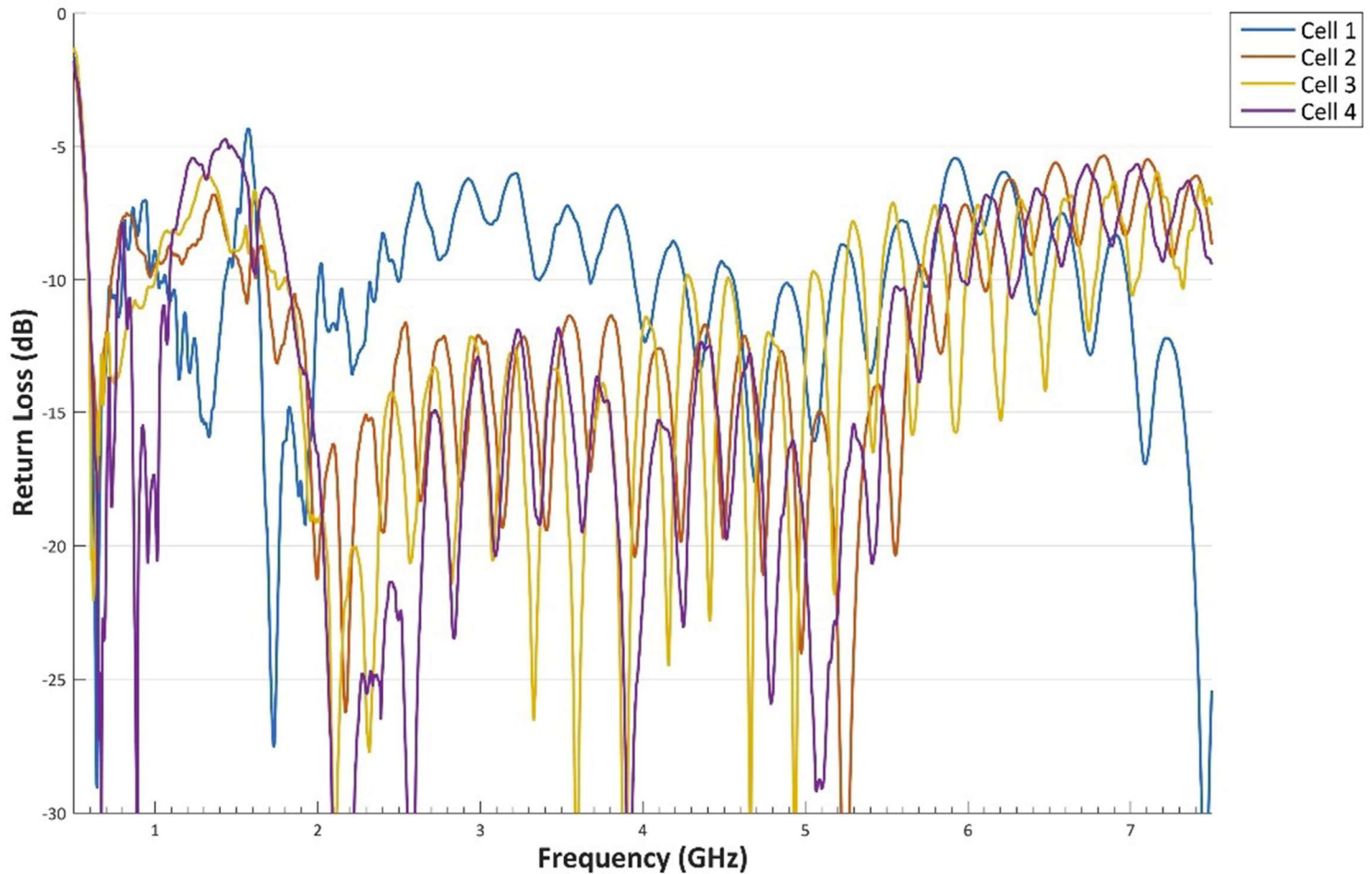
Ceramic Patch Antenna Specification	Bandwidth	1558-1610 MHz
	Gain@Zenith	0 dBi
	Polarization	R.H.C.P.
	Axial Ratio	3.0 dB Typ.
LNA Specification	Noise Figure	1.2 dB
	Gain	35 dBi
	VSWR	<2:1
	Voltage	1.6V~10V
	Current	9+/-2mA@3.3V



## ULTRAMAX™ Glass 5G

Up to 5-in-1 High Performance Windshield Mount Antenna

### RETURN LOSS FOR CELLULAR ANTENNAS



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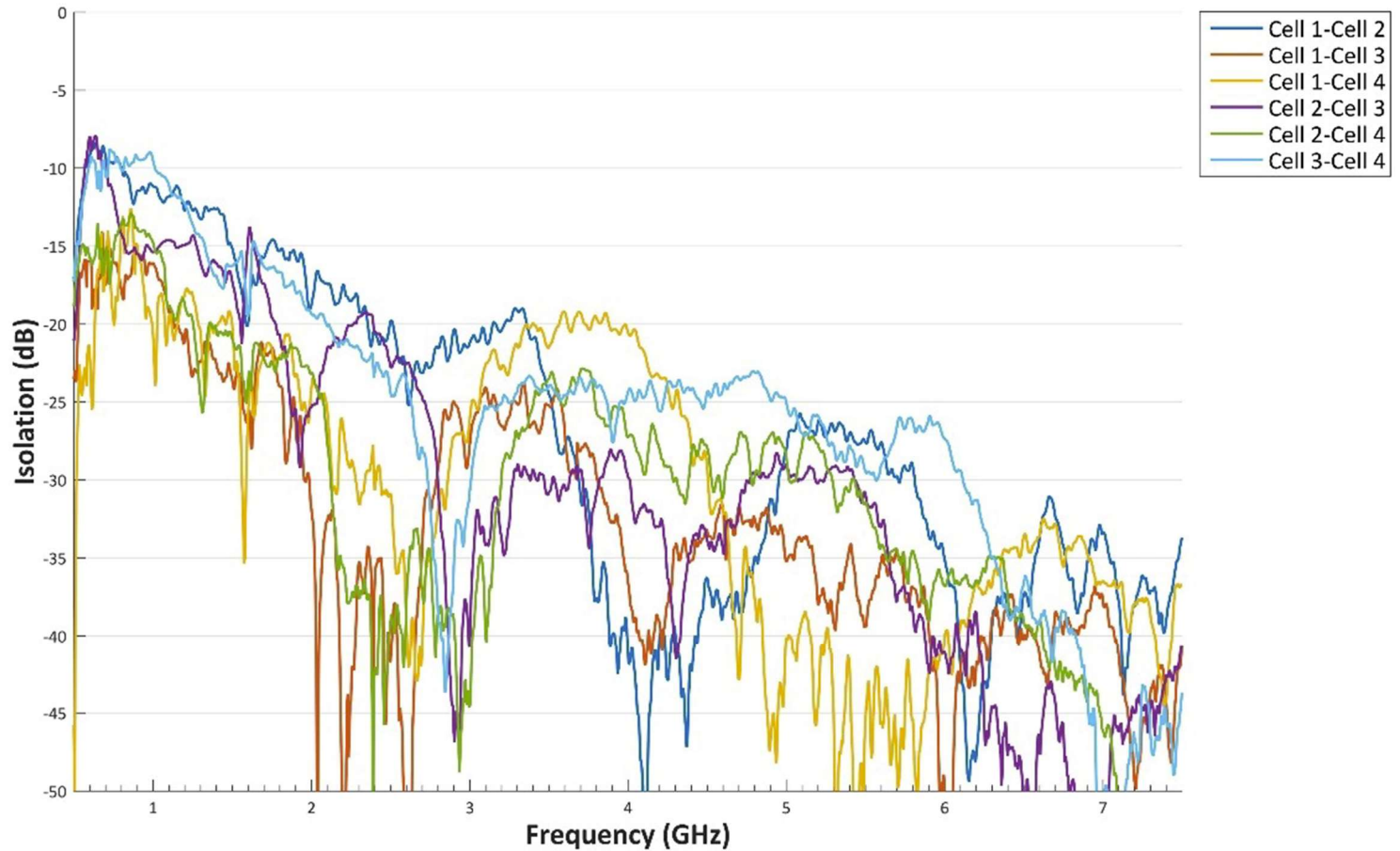
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### ISOLATION BETWEEN CELLULAR ANTENNAS



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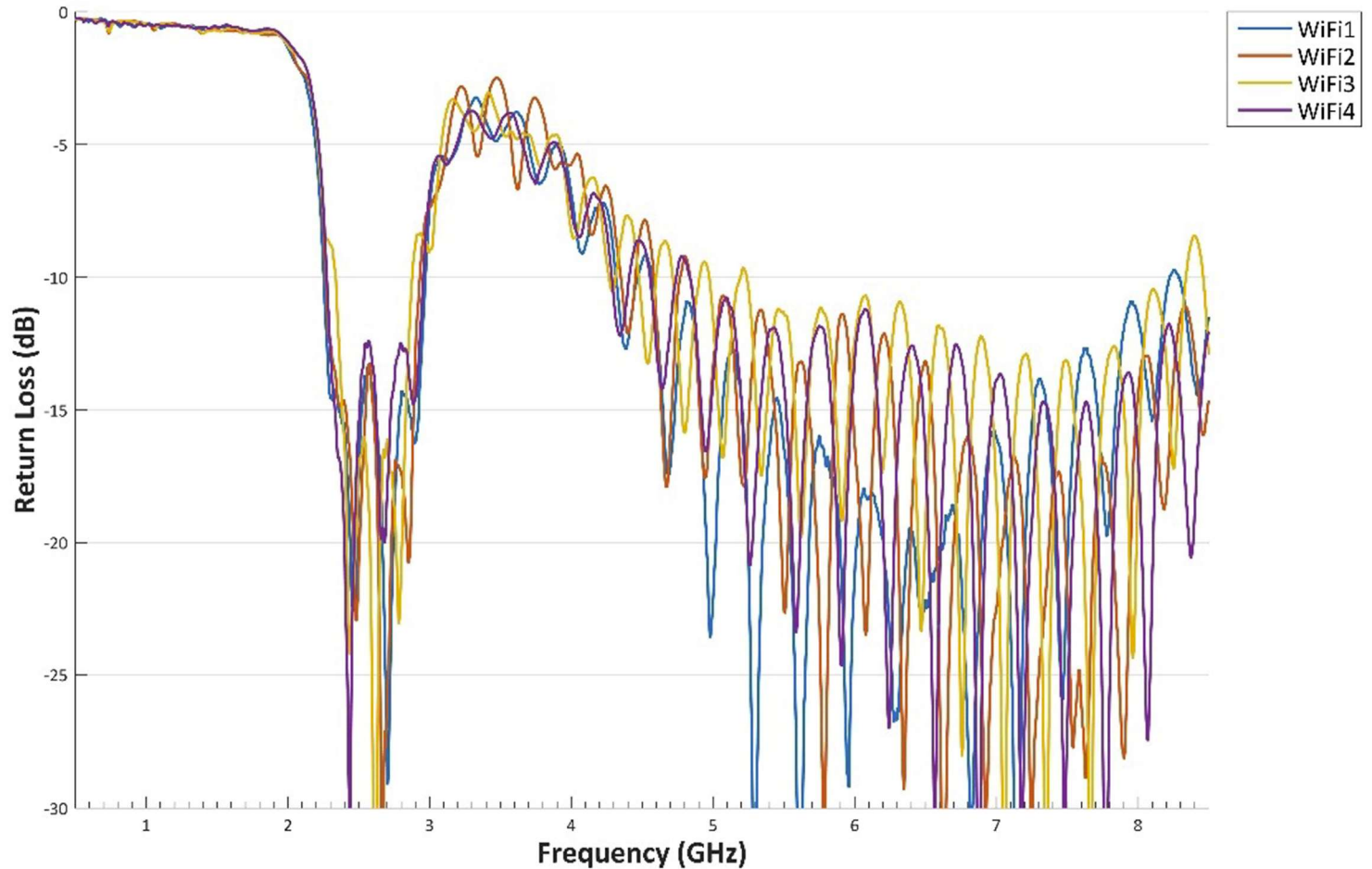
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## ULTRAMAX™ Glass 5G

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### RETURN LOSS FOR WI-FI ANTENNAS



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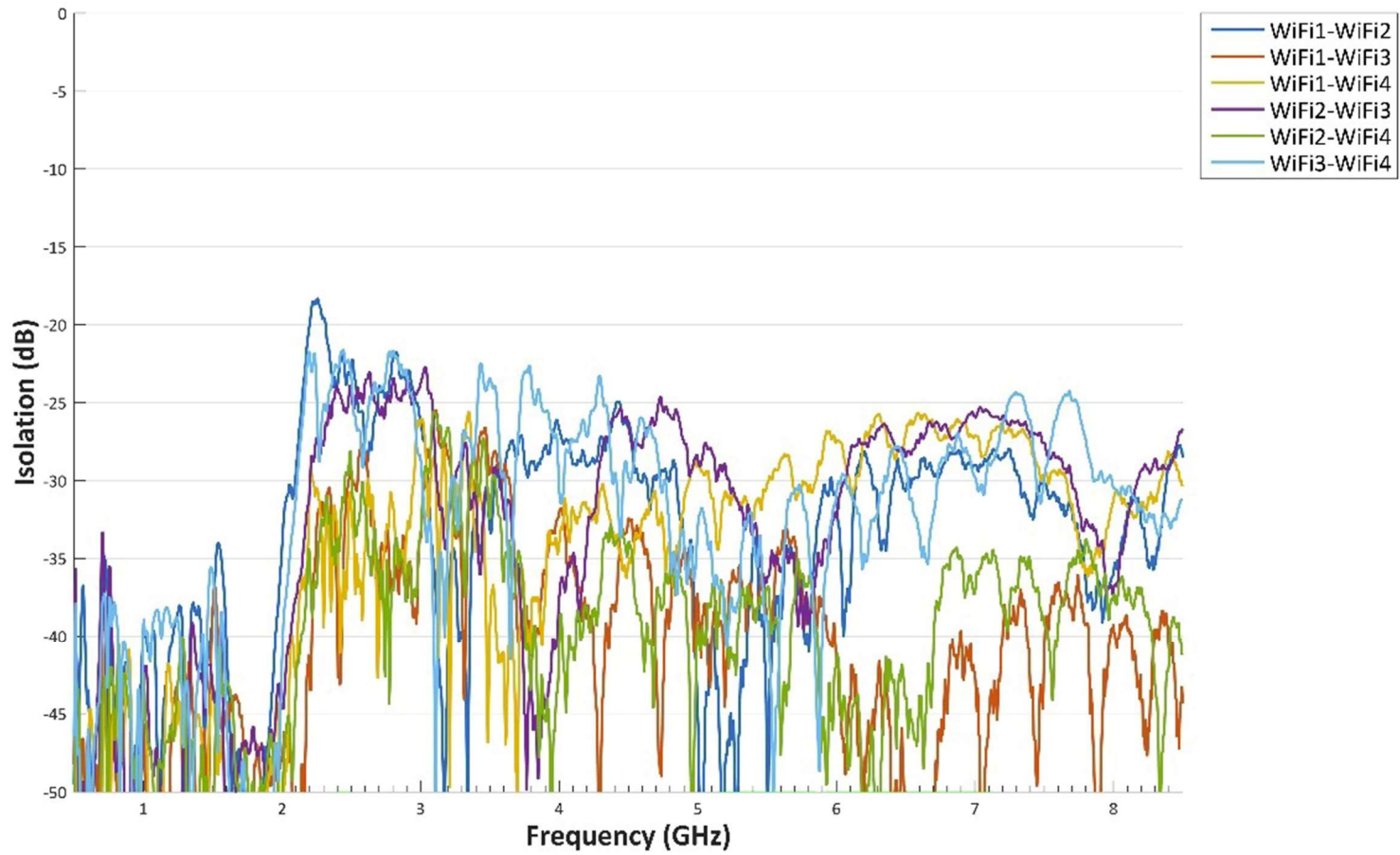
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## ISOLATION BETWEEN WI-FI ANTENNAS



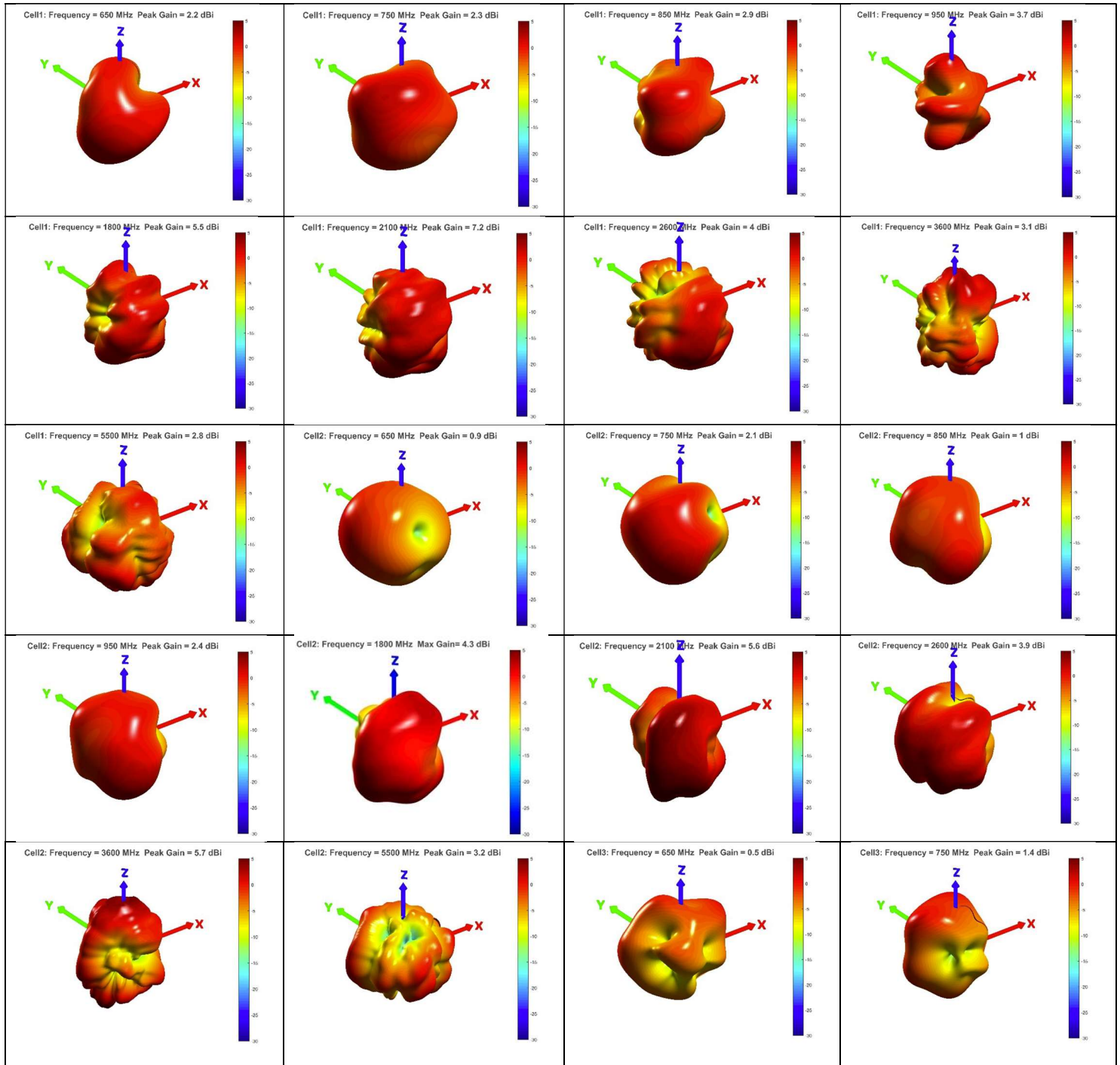
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## 3D RADIATION PATTERNS – CELL



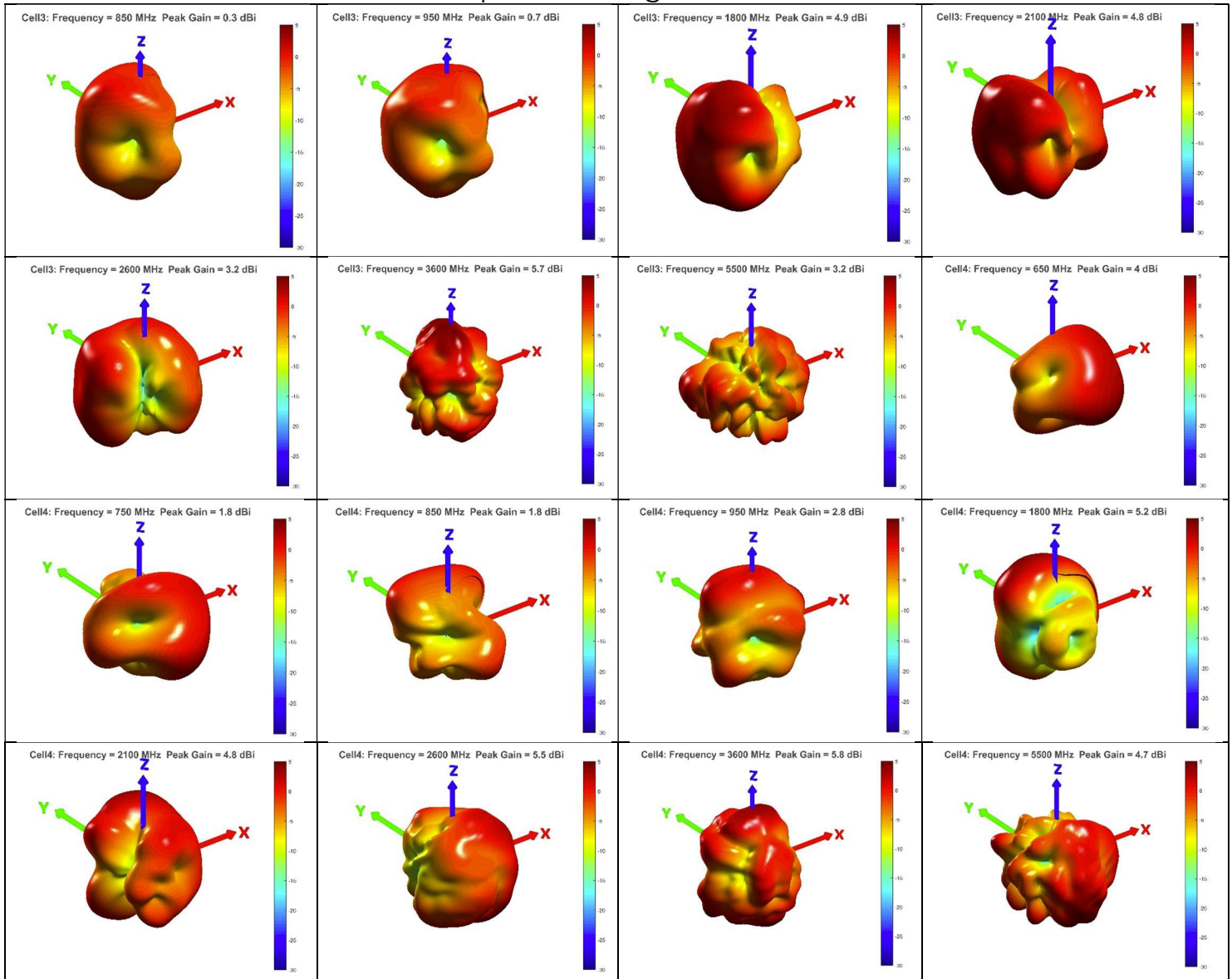
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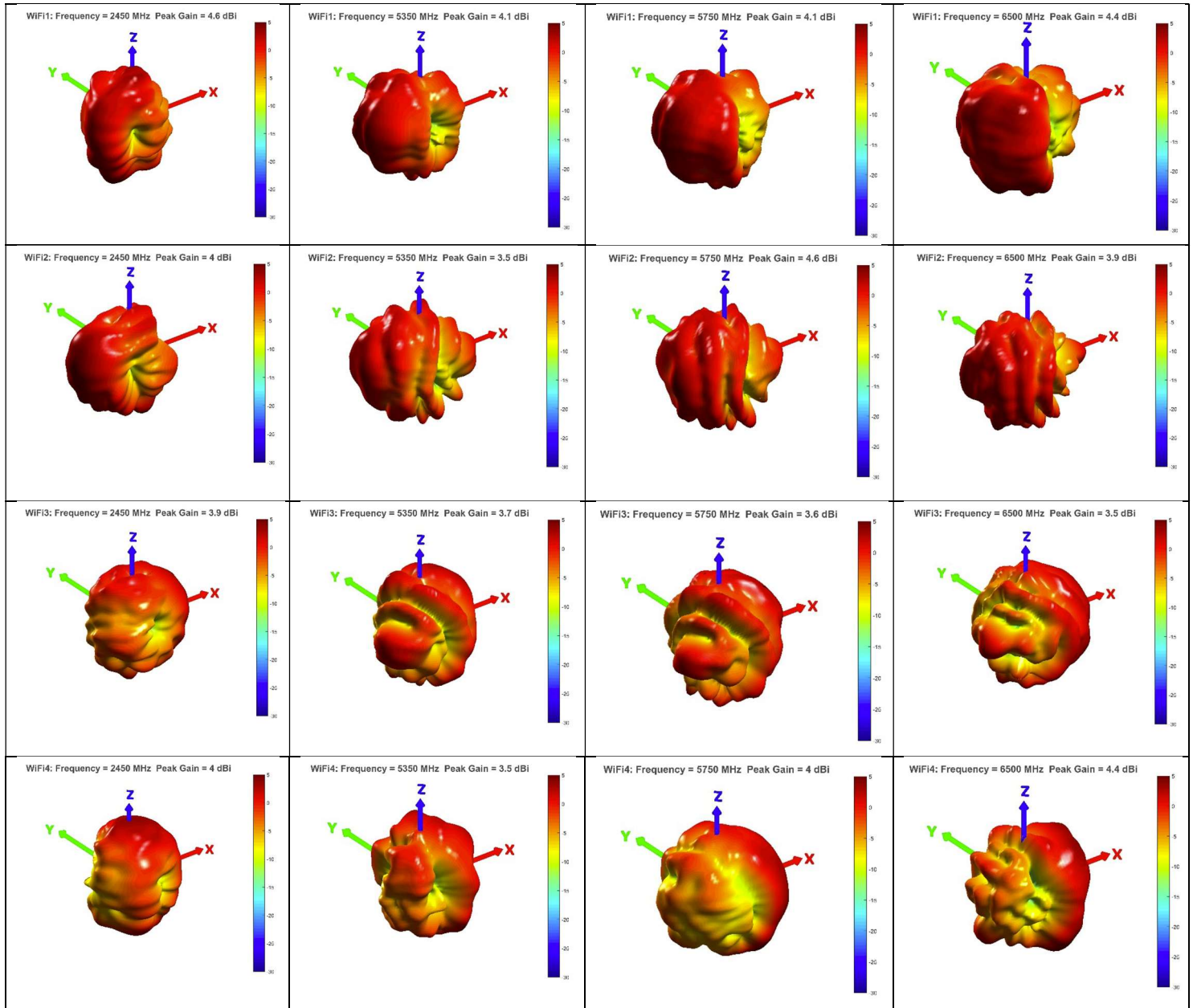
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## 3D RADIATION PATTERNS – WIFI



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