

5 YEARS WARRANTY



The 'Sandcastle' is a multifunction antenna designed to **future-proof** blue-light and amber-light vehicle fleets, delivering **up to 18 functions** within a single, panel-mounted unit. This unit incorporates **7 functions**.

Equipped with six ultra-wideband cellular elements covering **700 MHz to 6 GHz**, the Sandcastle ensures reliable performance today while supporting future requirements for years to come. With a **minimum 4 dBi gain** across the band, it offers exceptional efficiency for all public safety applications.

This antenna is **ESN-ready** and fully compatible with **current Airwave systems**, making it ideal for agencies transitioning between networks.

Featuring integrated **GPS, MiMo dual-band Wi-Fi**, and an **optional TETRA whip**, the Sandcastle eliminates the need for multiple holes in the roof, requiring only a **single 19 mm mounting hole**. Additional variants are available, including low-loss coaxial cable fitting kits. **For more details, please contact us.**

Also Available in White: Part No. 8000-227



Part No.

SK0200620

Cable Kit Options

Product Kit : Sandcastle 9 in 1 Antenna : Black : 4x LTE 1x GPS 4x WiFi;
- Complete with 5m Coax Extension Cables - Terminated

Additional options available upon request.

Technical Specifications

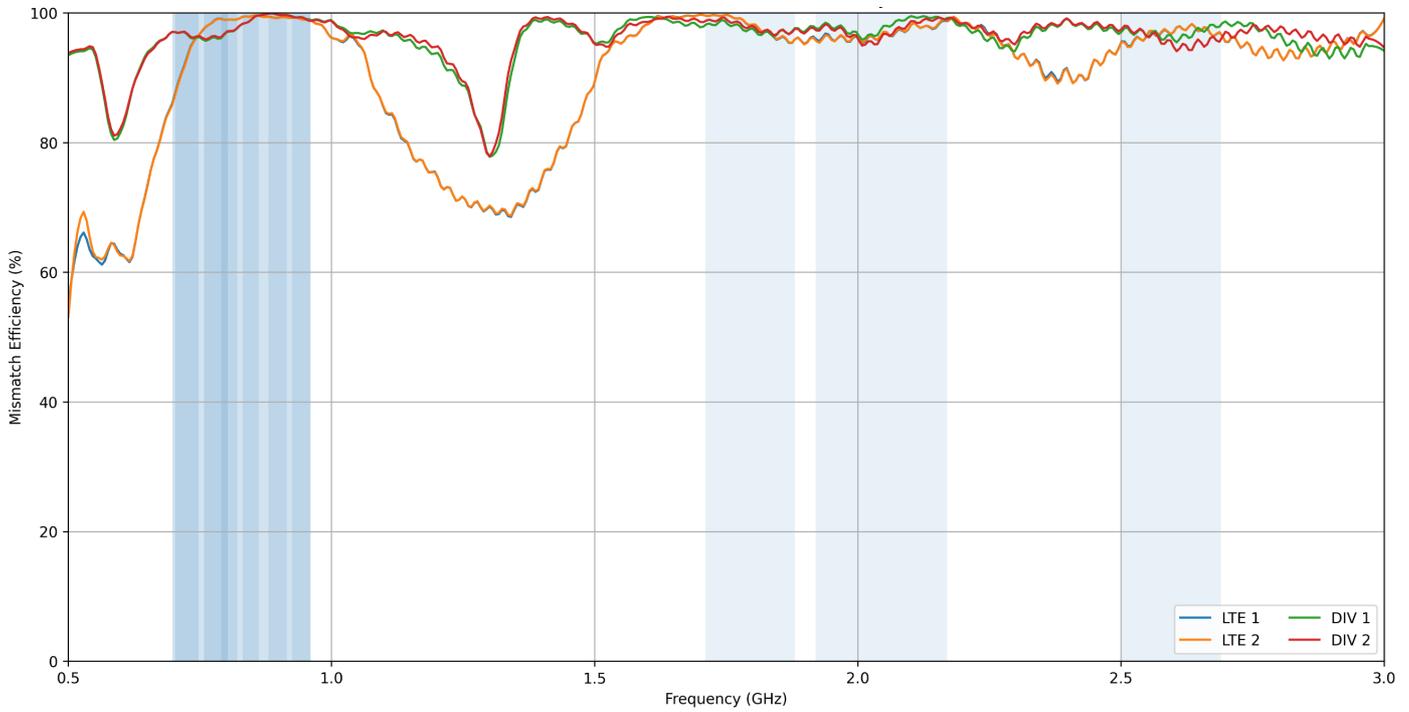
Part No.	8000-319	
Electrical Data		
	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	698-6000 MHz	2.4 GHz & 5.8GHz
Band	Wideband LTE 4x4 MiMo	Dual Band Wi-Fi 2x2 MiMo
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	Minimum 4dBi	Minimum 4dBi
Isolation	<-25dB	<-25dB
Polarisation	Vertical	Vertical
Pattern	Omni-directional	Omni-directional
Impedance	50Ω	50Ω
Max Power Input (W)	10W	10W
GPS/GLONASS		
Frequency Range (MHz)	1562-1612	
VSWR	<2:1	
Gain	26dB	
Polarisation	Right Hand Circular	
Operating Voltage	3-5v DC (fed via coax, each port is DC isolated)	
Cable	2x RG316 Terminated to SMA (m)	
Mechanical Data		
Dimensions (mm)	H76xW197xL227	
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)	
Material	ABS	
Colour	Black	
Weight (g)	600	
Cable Data		
Cable Type	RG316	RG316
length (mm)	300	300
Diameter	2.8	2.8
Termination	SMA (f)	SMA (m) Reverse Polarity
Mounting Data		
Mounting Type	Panel mount with adhesive pad	
Mounting Hole (mm)	19mm	

Subject to change without prior notice.

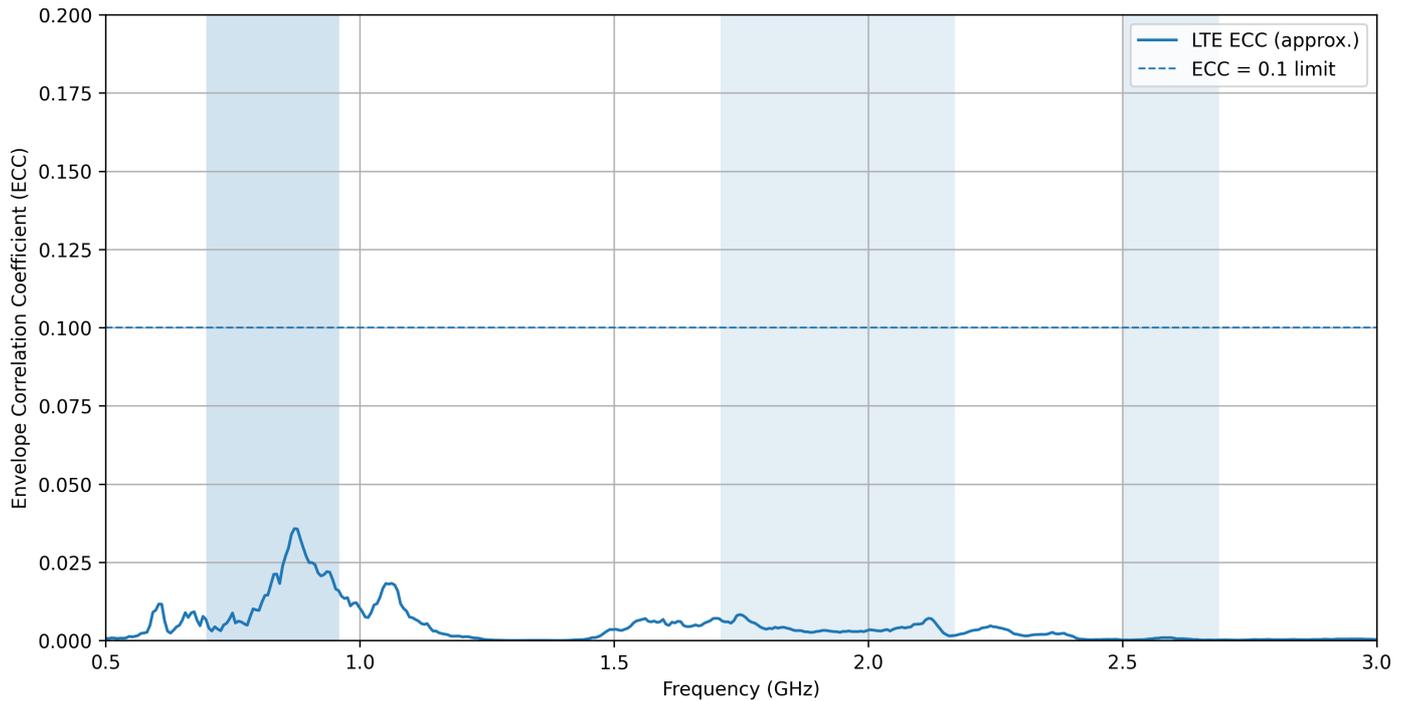
Supplied Coax Extension Cables

Coax Cables	4x LTE	2x Wi-Fi	1x GPS
Cable Type	SBC240	SBC240	SBC100
length	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8
Min. Bend Radius (mm)	30	30	14
Operating Temp. °C	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)	SMA (m)
Labeling	LTE M & LTE A	Wi-Fi M & Wi-Fi A	GPS

LTE / DIV Ports - Mismatch Efficiency

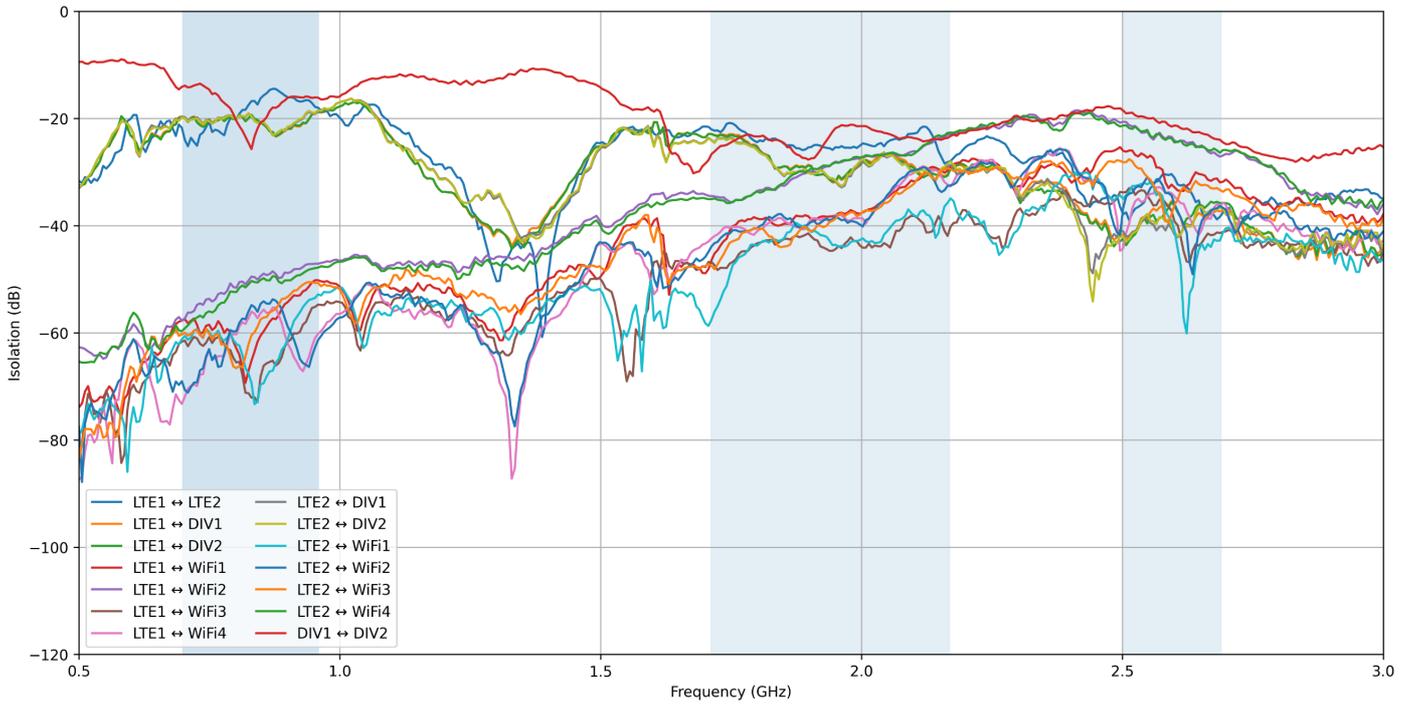


LTE ECC (Cut at 3 GHz)

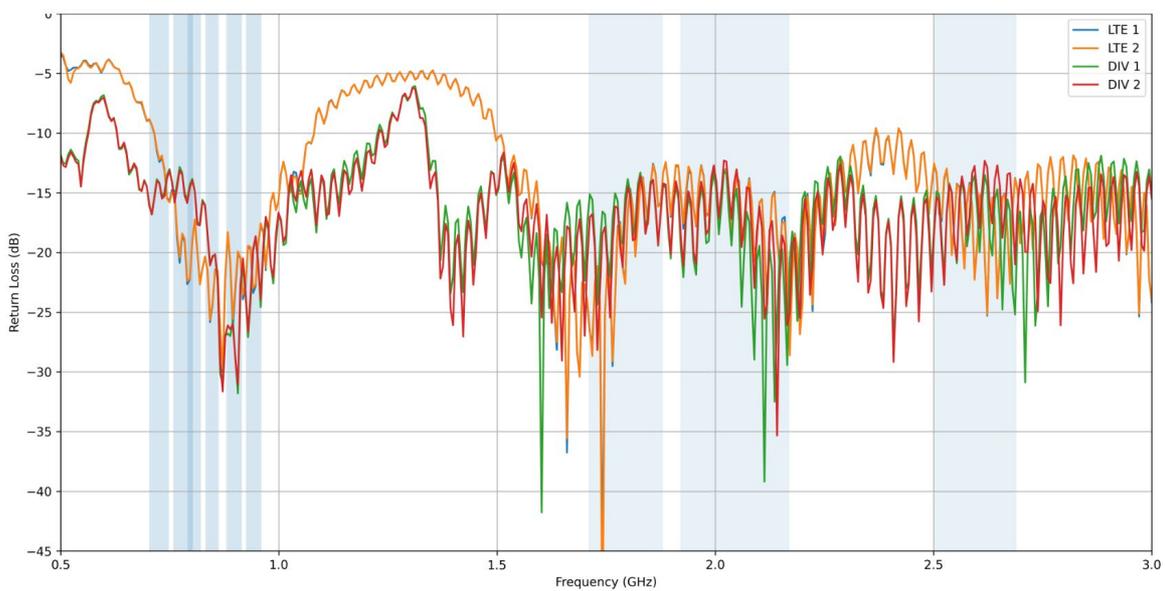


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LTE Port Isolation (Cut at 3 GHz)

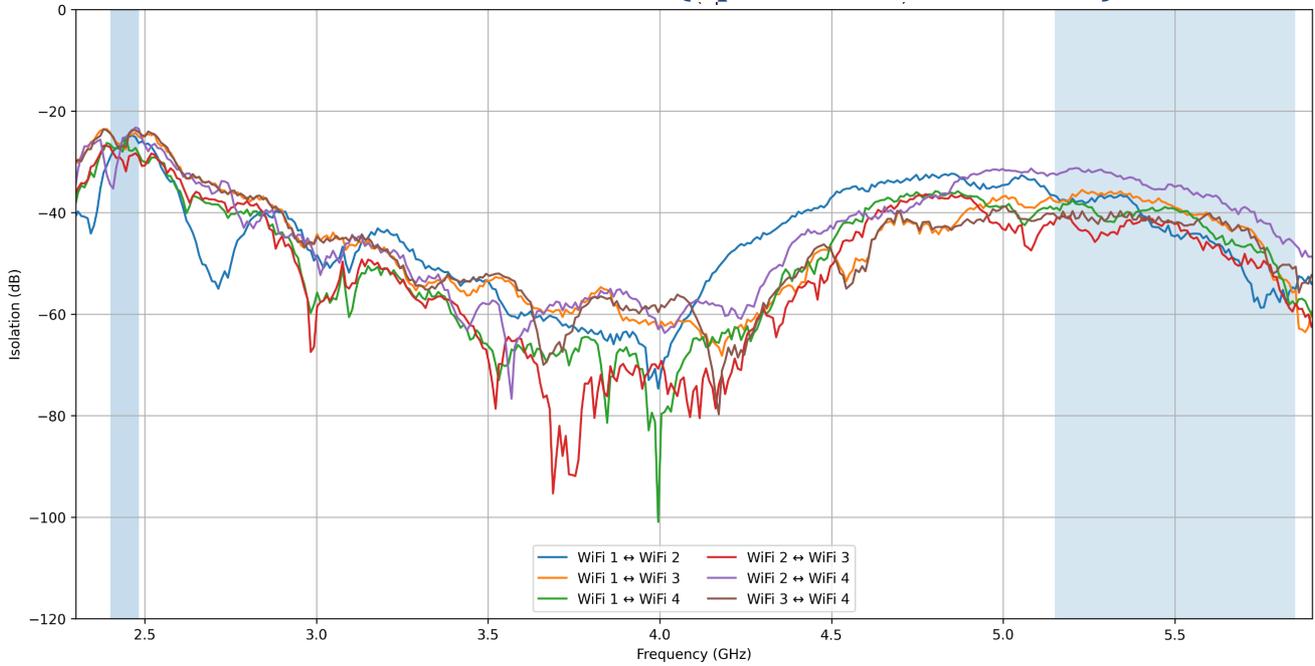


LTE Return Loss

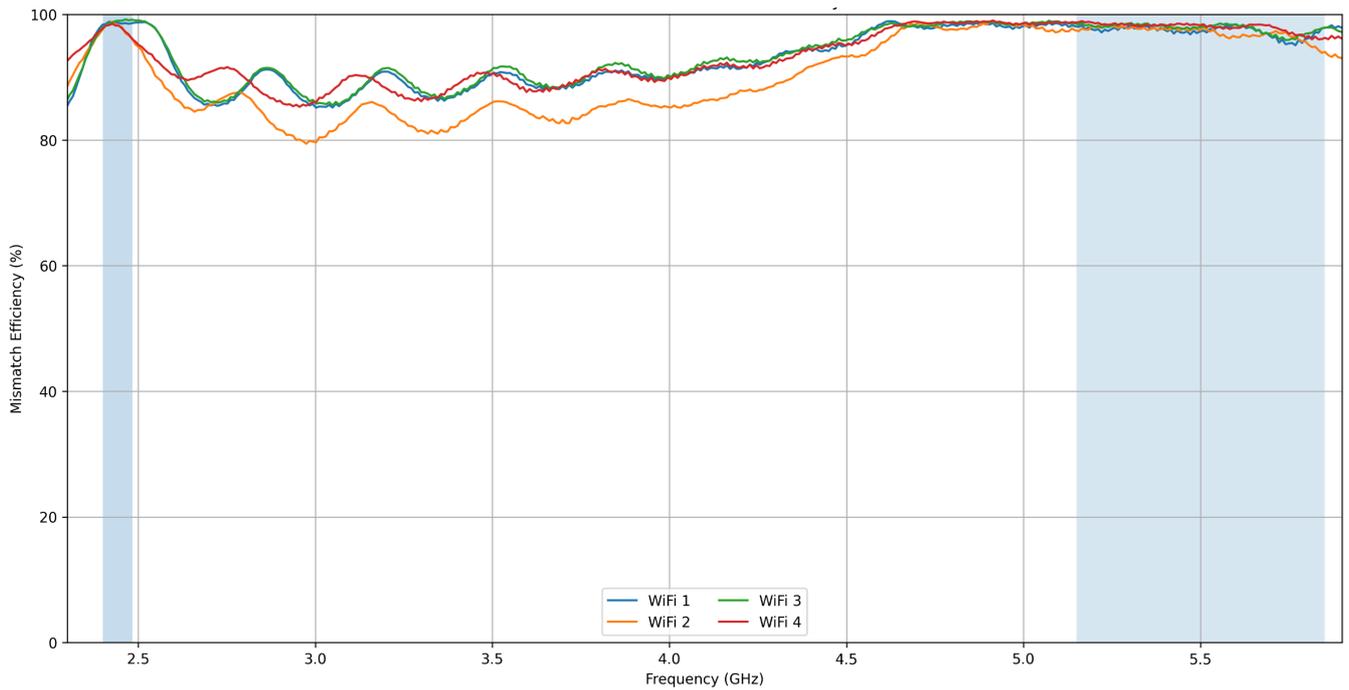


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WiFi Port-to-Port Isolation (Updated Measurements)

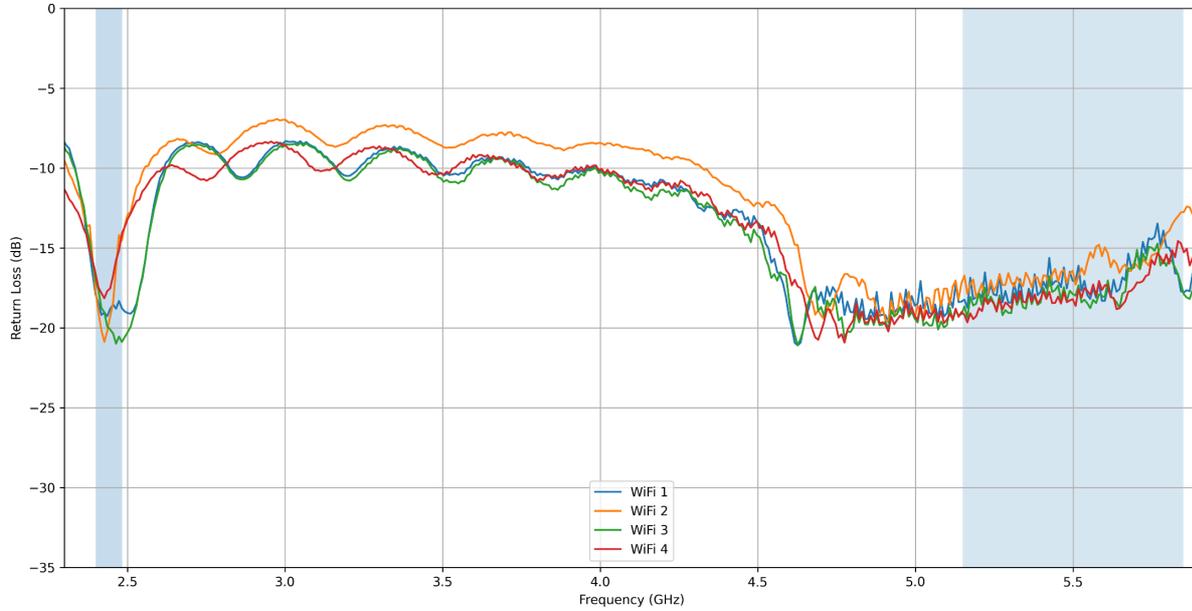


WiFi Ports -Mismatch Efficiency



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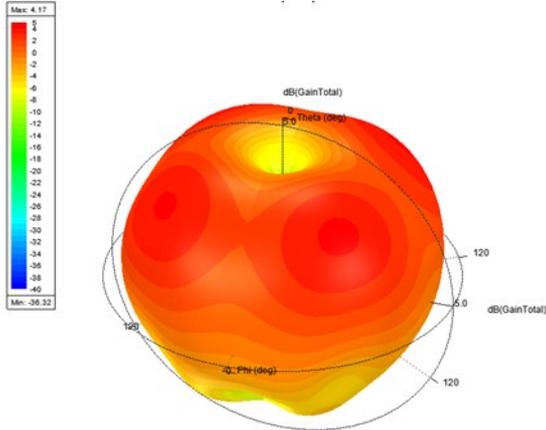
WiFi Antenna - Dual-Band Return Loss



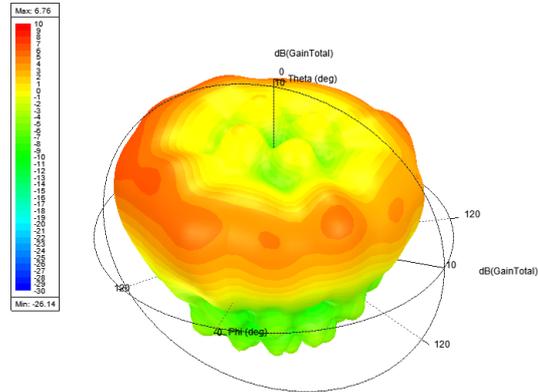
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3D Radiation Pattern

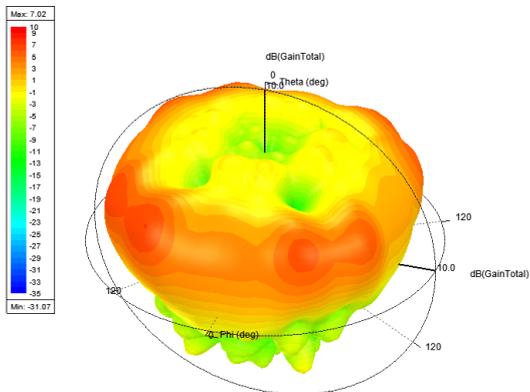
820MHz



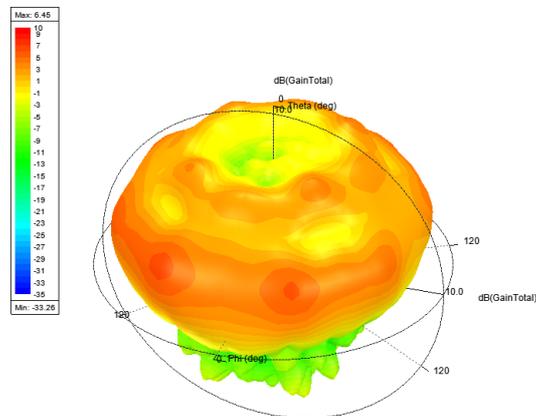
1820MHz



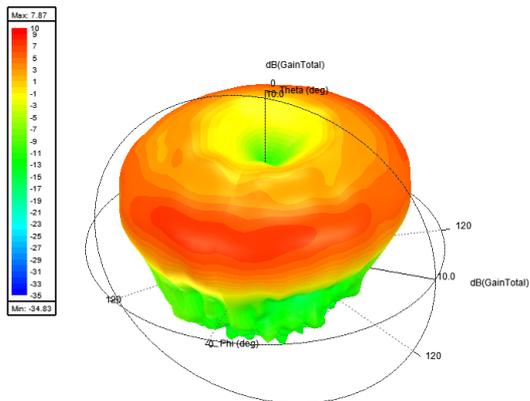
2140MHz



2600MHz



3600MHz



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