

8000-321 Multifunction Sandcastle 18-in-1 Antenna

SureAntennas®

**5 YEARS
WARRANTY**



- 18 Functions in 1 Antenna
- Supports TETRA, Cellular, Dual Band Wi-Fi, GPS & LTE
- Optional Support for Tetra Whip
- Ultra-Wide Bandwidth 700MHz – 6000MHz
- Low Profile
- Simple, Single Hole Installation
- GPS/GNSS Ports DC Isolated
- CE Directive 2014/53/EU Compliant

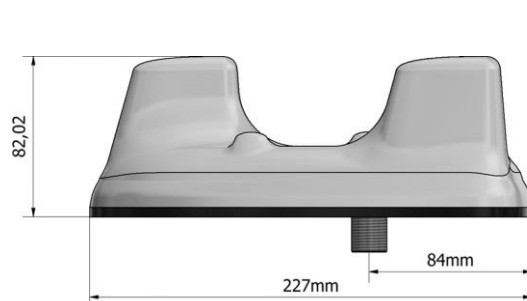
The 'Sandcastle' is a multifunction antenna specifically designed to help future proof blue, and amber light vehicle fleets, allowing 18 functions in single panel mounted antenna.

Boasting 6x Ultra-Wideband cellular antenna elements covering 700MHz to 6GHz, this antenna could future proof your vehicle installation for years to come. With a minimum 4dBi gain across the band, this antenna is an efficient option for all public safety applications. If the whip option is not being used, the 'Sandcastle' can be mounted as a ground plane independent antenna allowing for an easier installation. With the GPS, MiMo Dual Band Wi-Fi, and optional Tetra whip, the need for drilling multiple holes in your vehicles roof is long gone, as this only requires a single 19mm hole. Other variants are available including low loss coax cable fitting kits. Please contact us for more details.

Also Available in White:



Part No.: 8000-221



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MOBILE RADIO

8000-321 Multifunction Sandcastle 18-in-1 Antenna



Technical Specifications

Part No.	8000-321		
Electrical Data	TETRA	Cellular	Dual Band Wi-Fi
Frequency Range (MHz)	380-430 MHz	698-760 MHz 1710-2700 MHz	2.4 GHz & 5.8 GHz
Input Power	10W	10W	10W
Gain	2dBi*	Minimum 4dBi*	Minimum 4dBi*
VSWR	< 2.5:1	< 2.5:1	< 2.5:1
Impedance	50Ω	50Ω	50Ω
Cable Type	RG316	RG316	RG316
Termination	TNC (f)	SMA (f)	SMA (m) Reverse Polarity
	GPS	LTE	
Frequency Range (MHz)	1562-1612 MHz	700-960 MHz 1700-6000 MHz	
Input Power	-	10W	
Gain	>26dB	Minimum 4dBi*	
VSWR	< 2.5:1	< 2.5:1	
Impedance	-	50Ω	
Cable Type	RG316	RG316	
Termination	SMA (m)	SMA (f)	
Mechanical Data			
Dimensions (mm)	H76 x W197 x L227 **		
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)		
Material	ABS		
Colour	Black		
Weight (g)	600		
Cable Data			
Length (mm)	300	300	300
Diameter	2.8	2.8	2.8
Mounting Data			
Mounting Type	Panel Mount with Adhesive Pad		
Mounting Hole (mm)	19mm		

Subject to change. *Ground plane dependent **Excluding optional whip.



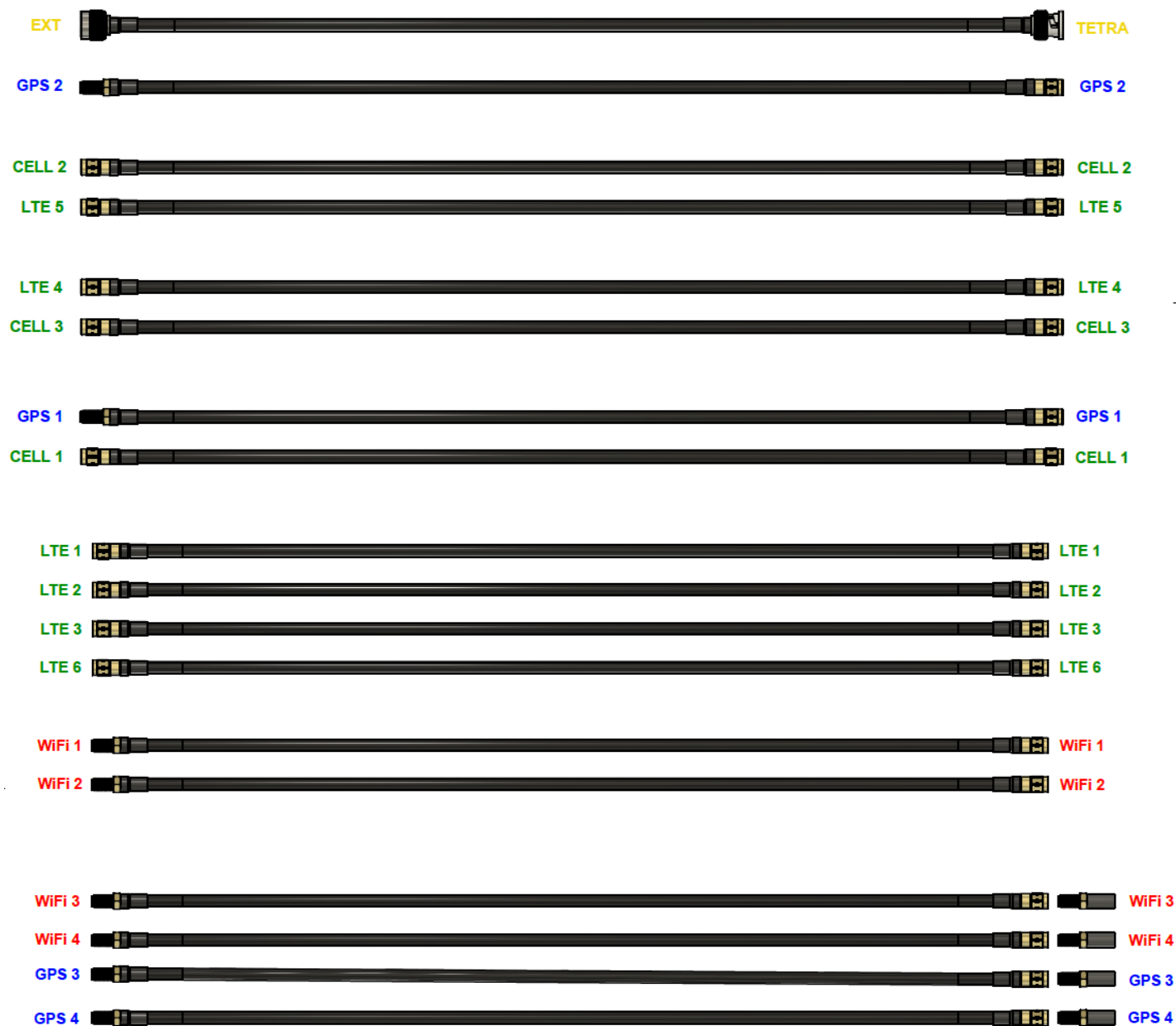
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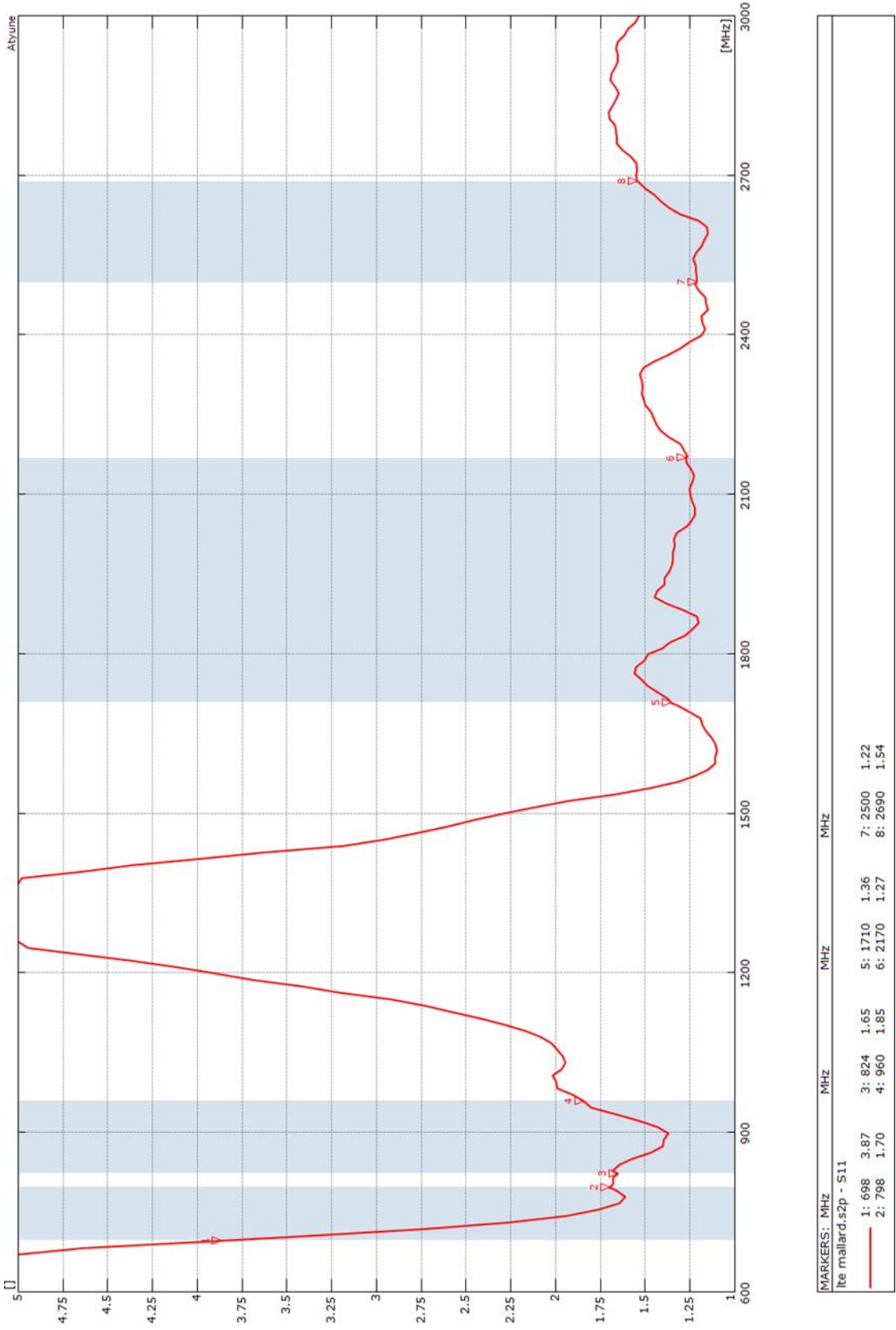
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Cable Kit Diagram



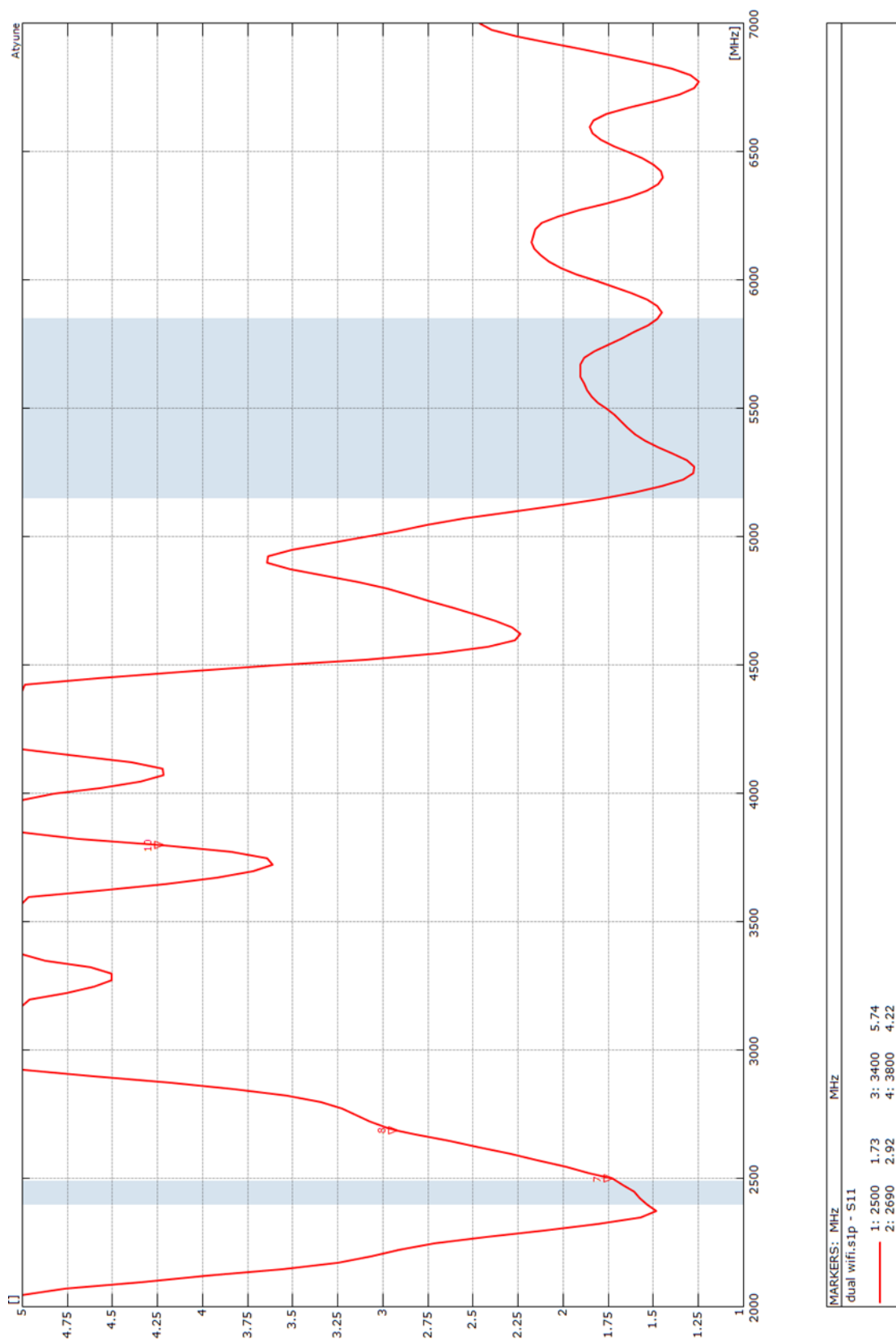
Cable kits are available in both 5m length (part no. SK010035) and 3m length (part no. SK010033).

LTE VSWR Plot



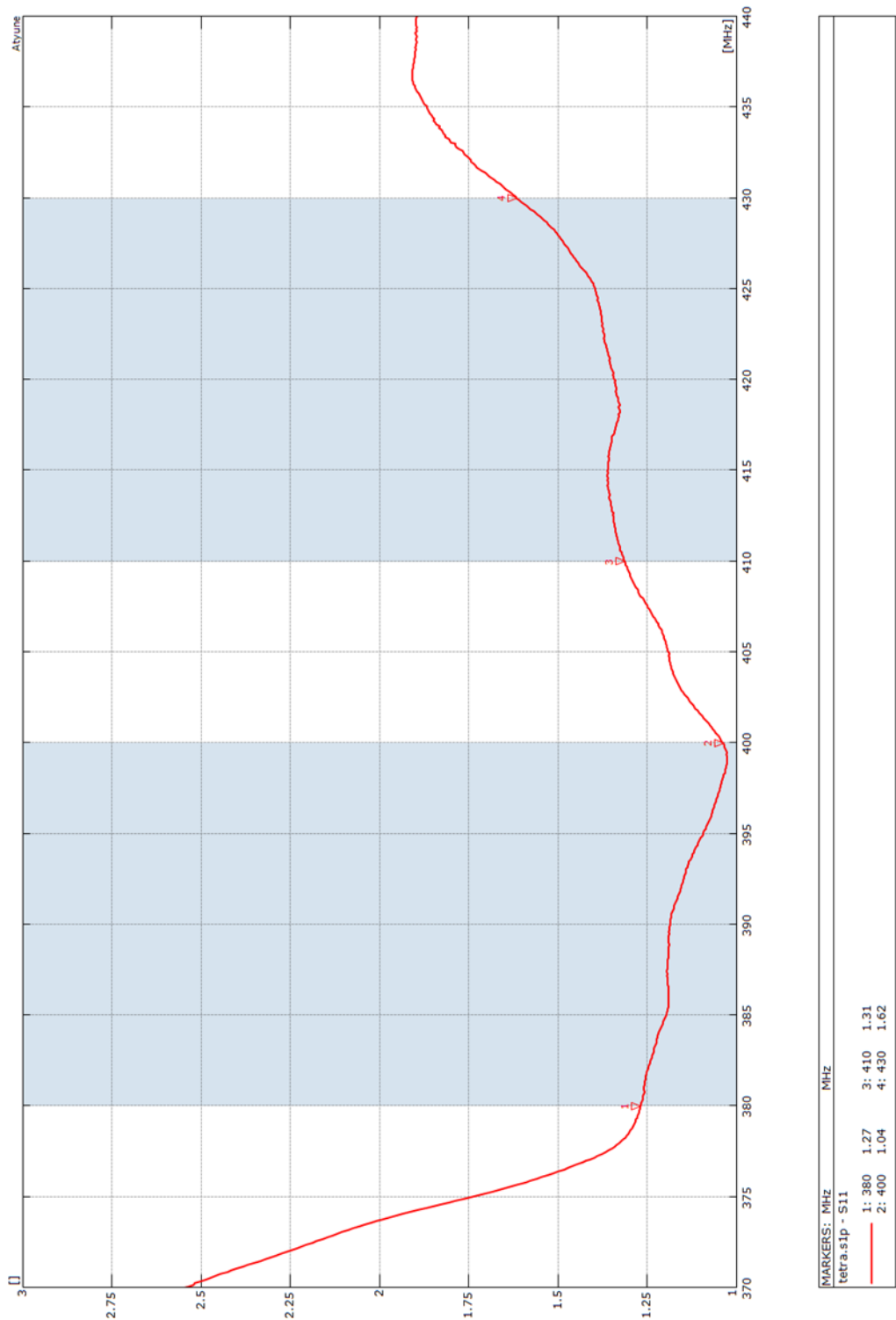
Subject to change without prior notice.

WiFi VSWR Plot



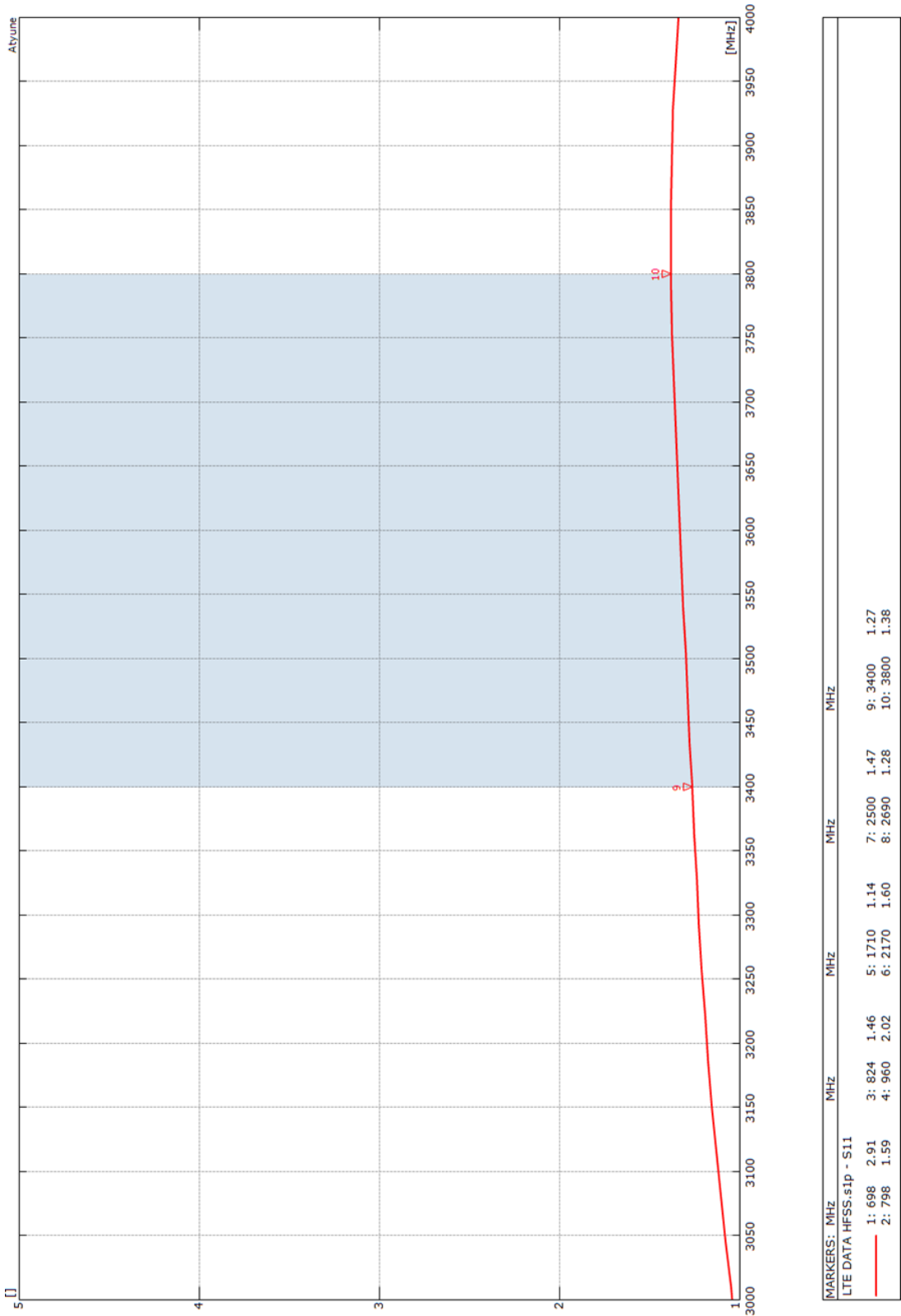
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TETRA VSWR Plot



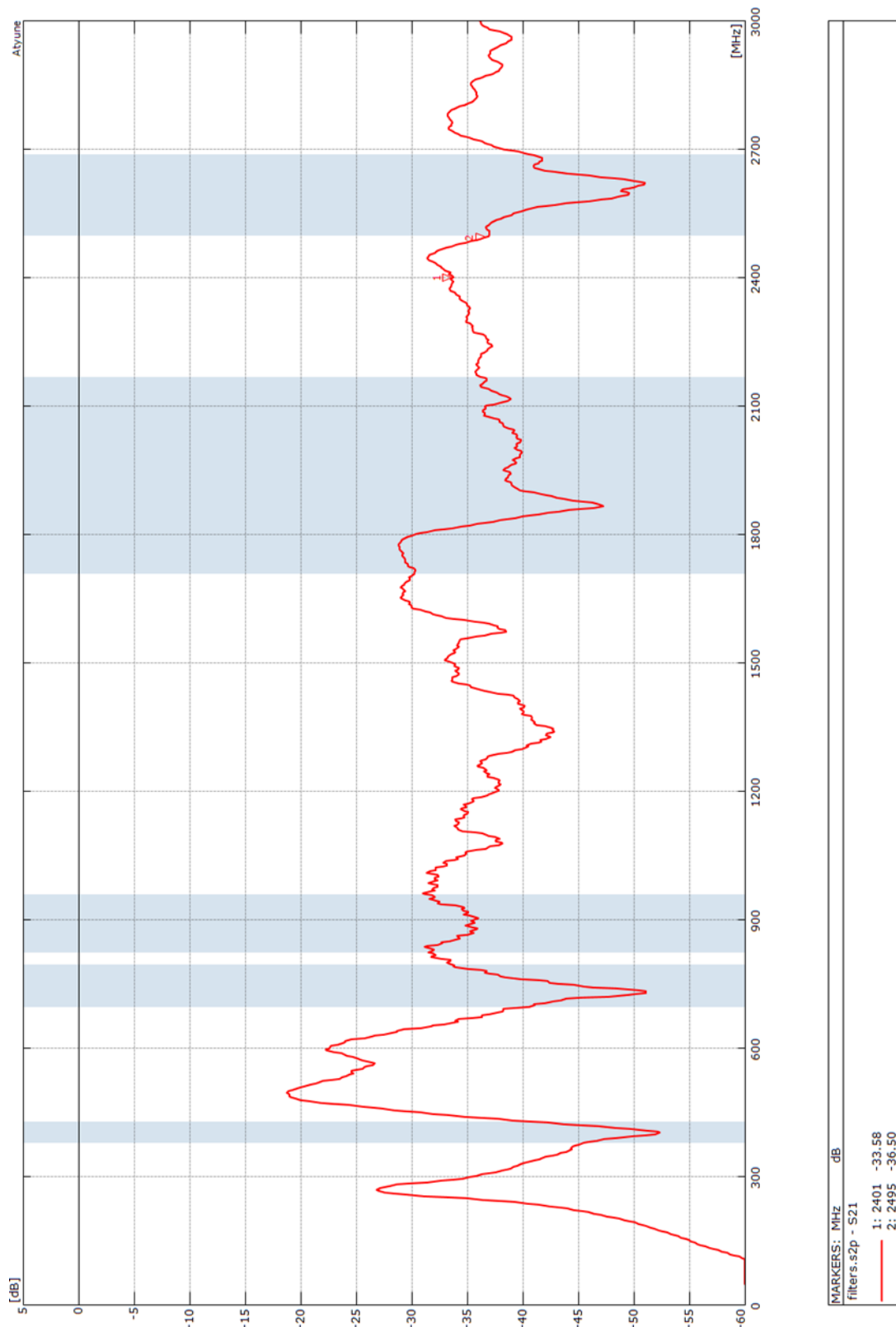
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5G VSWR Plot

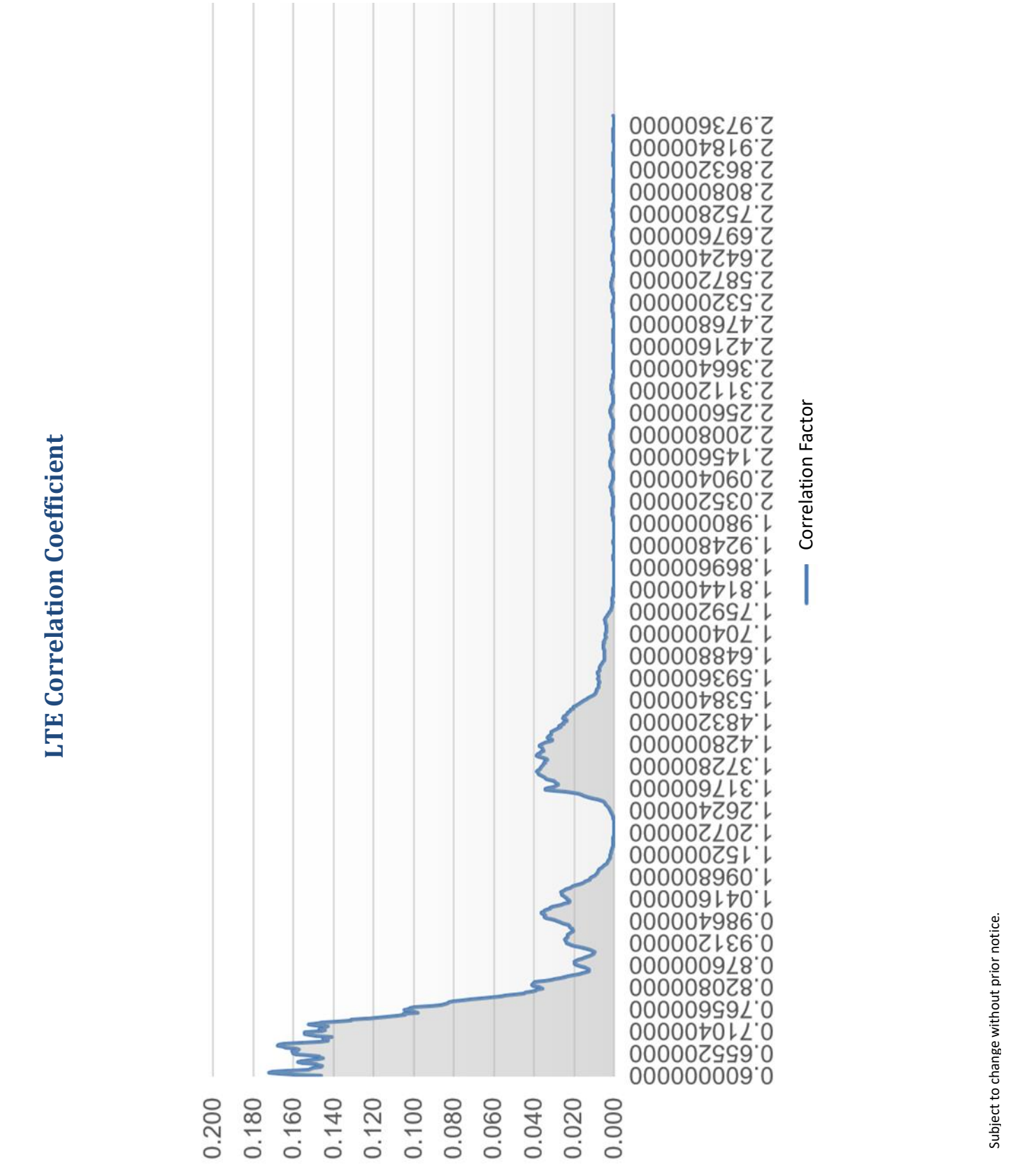


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TETRA & LTE Isolation



Subject to change without prior notice.



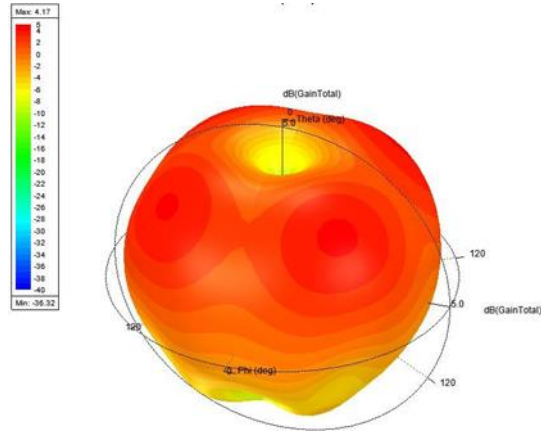
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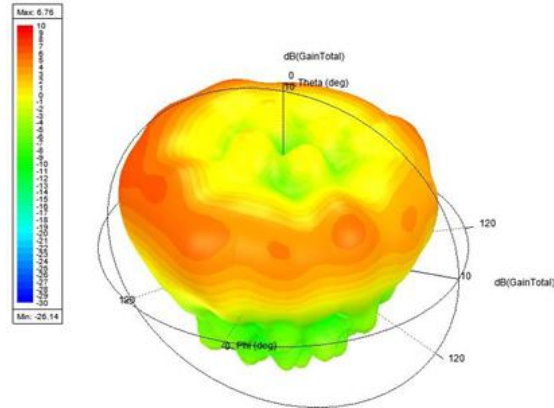
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3D Radiation Pattern

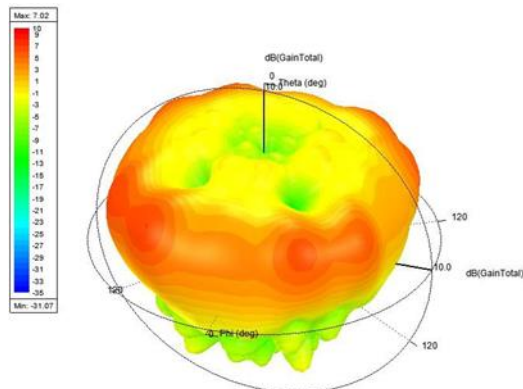
820MHz



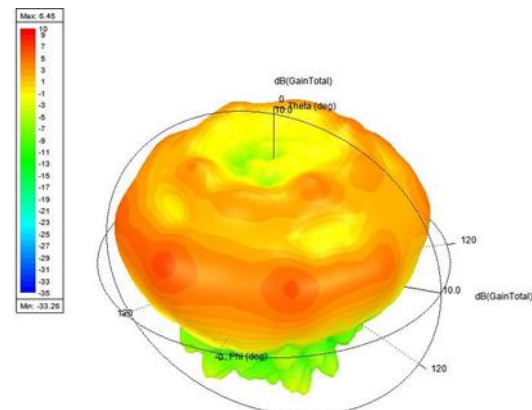
1820MHz



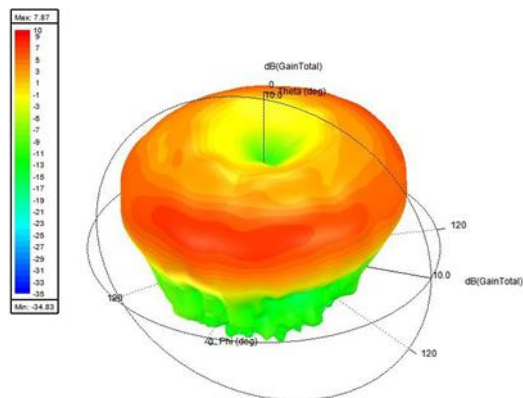
2140MHz



2600MHz



3600MHz



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