

**5 YEARS
WARRANTY**



- 12 Functions in 1 Antenna
- 4x4 MiMo Wideband 2G 3G 4G 5G
- Optional Support for Tetra/WiFi/LTE Whip
- Ultra-Wide Bandwidth 700MHz – 6000MHz
- Optional MiMo Dual Band Wi-Fi/WiMAX
- Low Profile
- Simple, Single Hole Installation
- GPS/GNSS Ports DC Isolated
- CE Directive 2014/53/EU Compliant

Part number 8000-310, affectionately named by us as the 'Sandcastle' is a multifunction antenna specifically designed to help future proof blue, and amber light vehicle fleets allowing 12 functions in single panel mounted antenna.

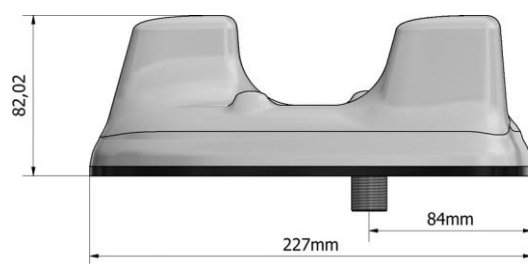
Boasting 4x Ultra-Wideband cellular antenna elements covering 700MHz to 6GHz, this antenna could future proof your vehicle installation for years to come. With a minimum 4dBi gain across the band, this antenna is an efficient option for all public safety applications. If the whip option is not being 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 needs 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.: 8000-210



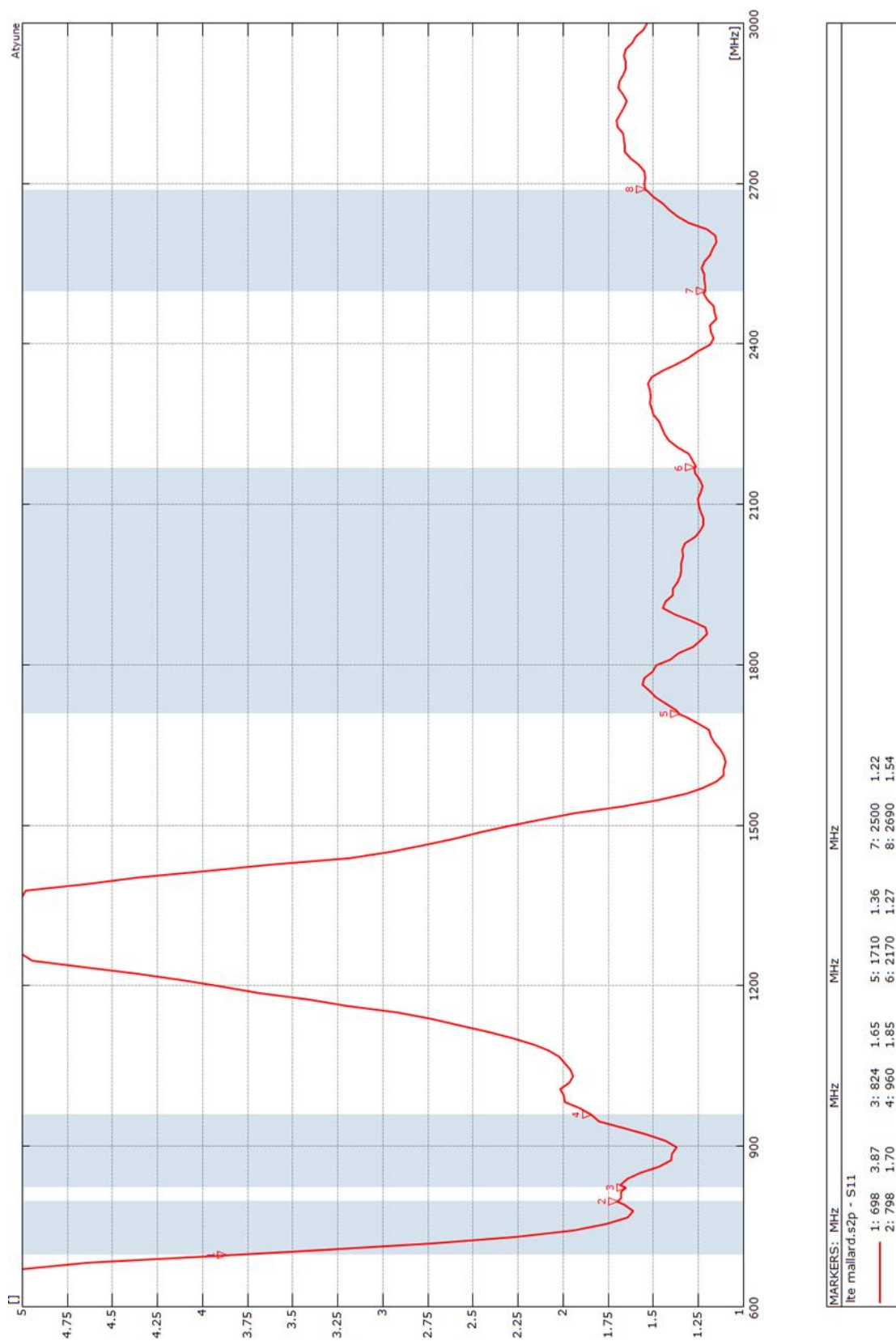
Technical Specifications

Part No.	800-310		
Electrical Data			
Frequency Range (MHz)	380 – 430 MHz	700 – 6000 MHz	2.4 GHz & 5.8 GHz
Band	OPTIONAL TETRA WHIP	4x Wideband LTE 4x4 MiMo	4x Dual Band Wi-Fi 4x4 MiMo
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	5dBi	Minimum 4dBi	Minimum 4dBi
Isolation	-	<-25dB	<-25dB
Polarisation	Vertical	Vertical	Vertical
Pattern	Omni-directional	Omni-directional	Omni-directional
Impedance	50Ω	50Ω	50Ω
Max. Power Input (W)	25W	10W	10W
GPS/GLONASS Data			
Frequency Range (MHz)	1562 – 1612 MHz		
VSWR	<2:1		
Gain	26dB		
Polarisation	Right Hand Circular		
Operating Voltage	3-5v DC (fed via coax, each port is DC isolated)		
Cable	4x RG316 Terminated to SMA (m)		
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			
Cable Type	RG316	RG316	RG316
Length (mm)	300	300	300
Diameter	2.8	2.8	2.8
Termination	TNC (f)	SMA (f)	SMA (m) Reverse Polarity
Mounting Data			
Mounting Type	Panel Mount with Adhesive Pad		
Mounting Hole (mm)	19mm		

Subject to change. *Excluding optional whip.

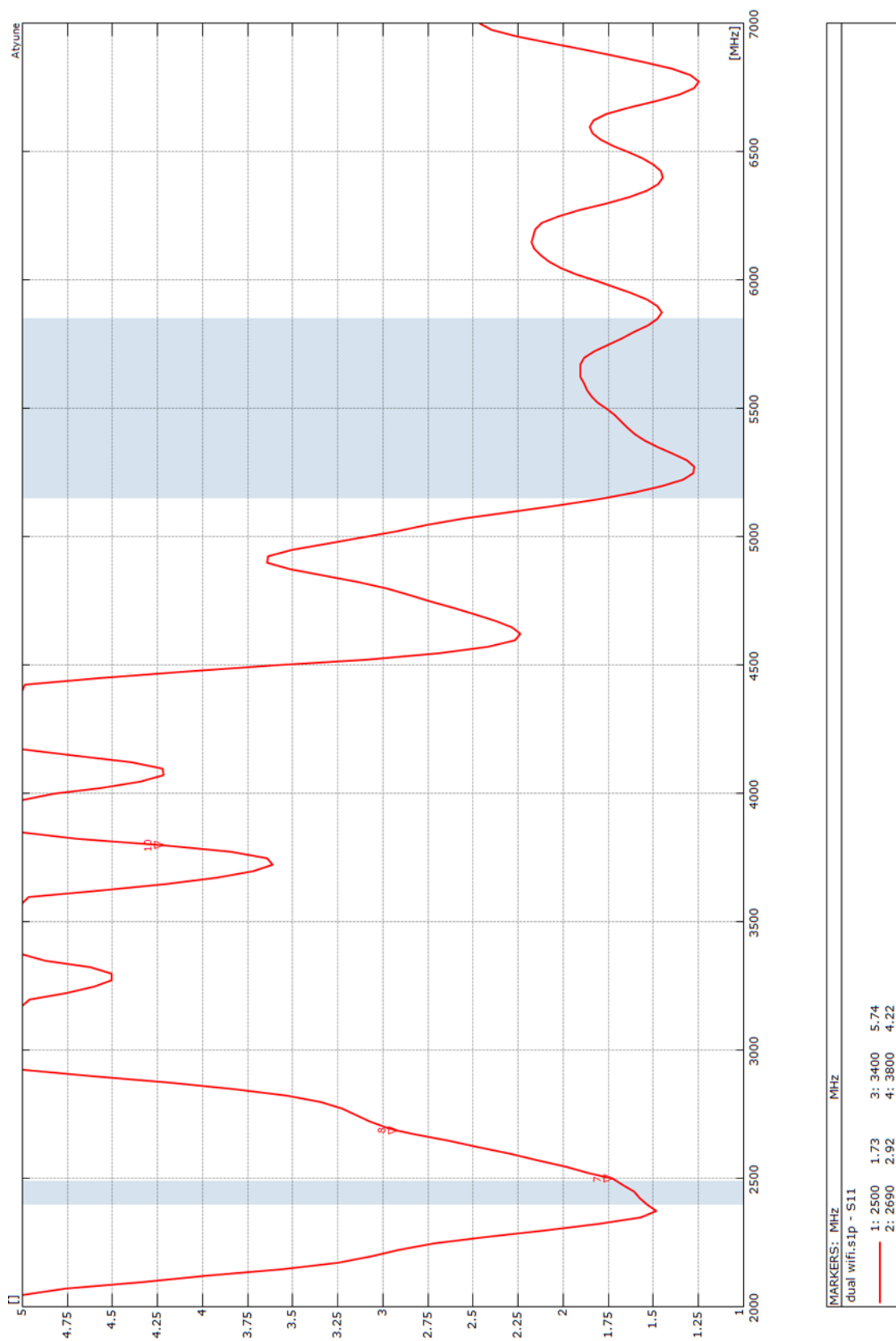


LTE VSWR Plot



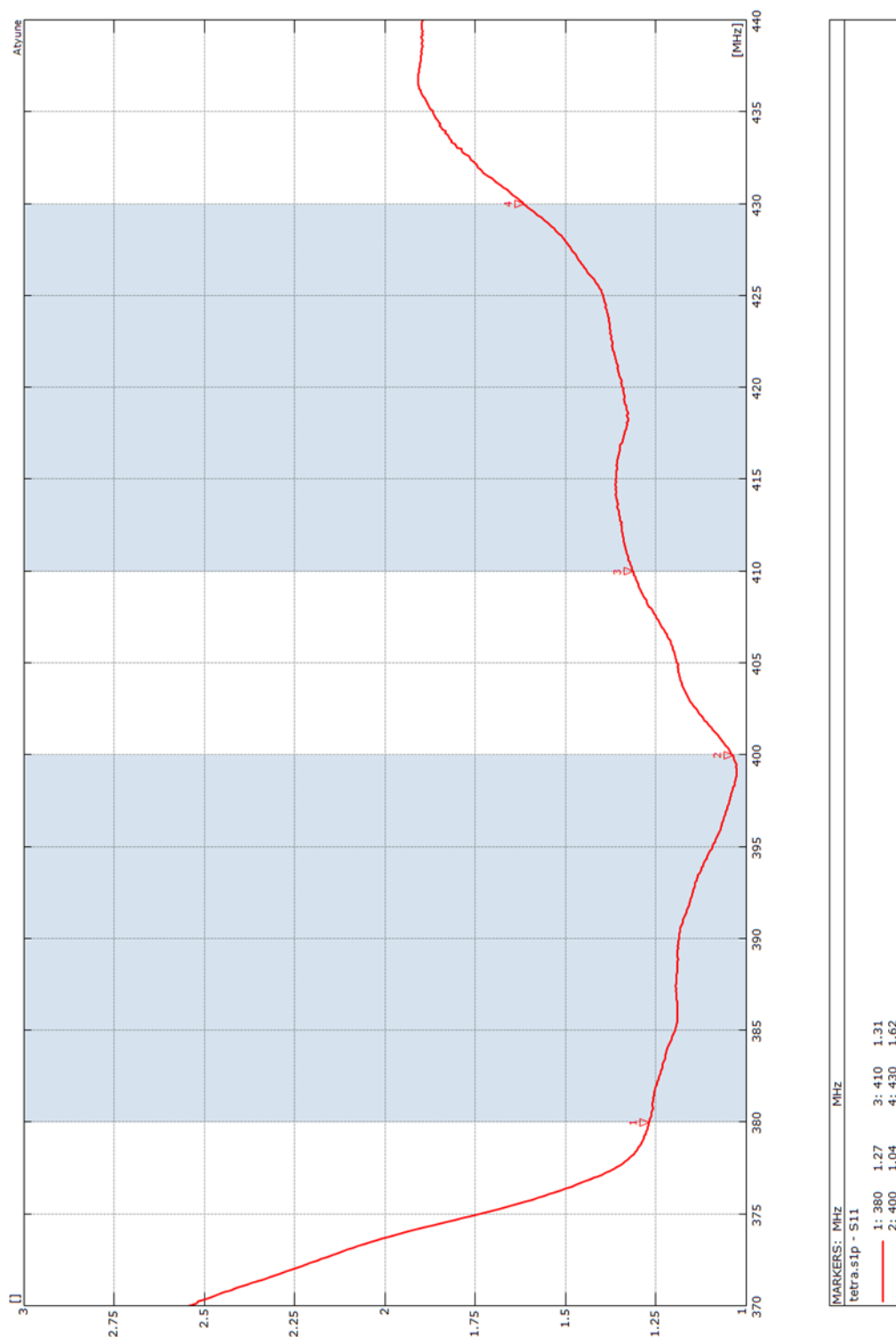
Subject to change without prior notice.

WiFi VSWR Plot



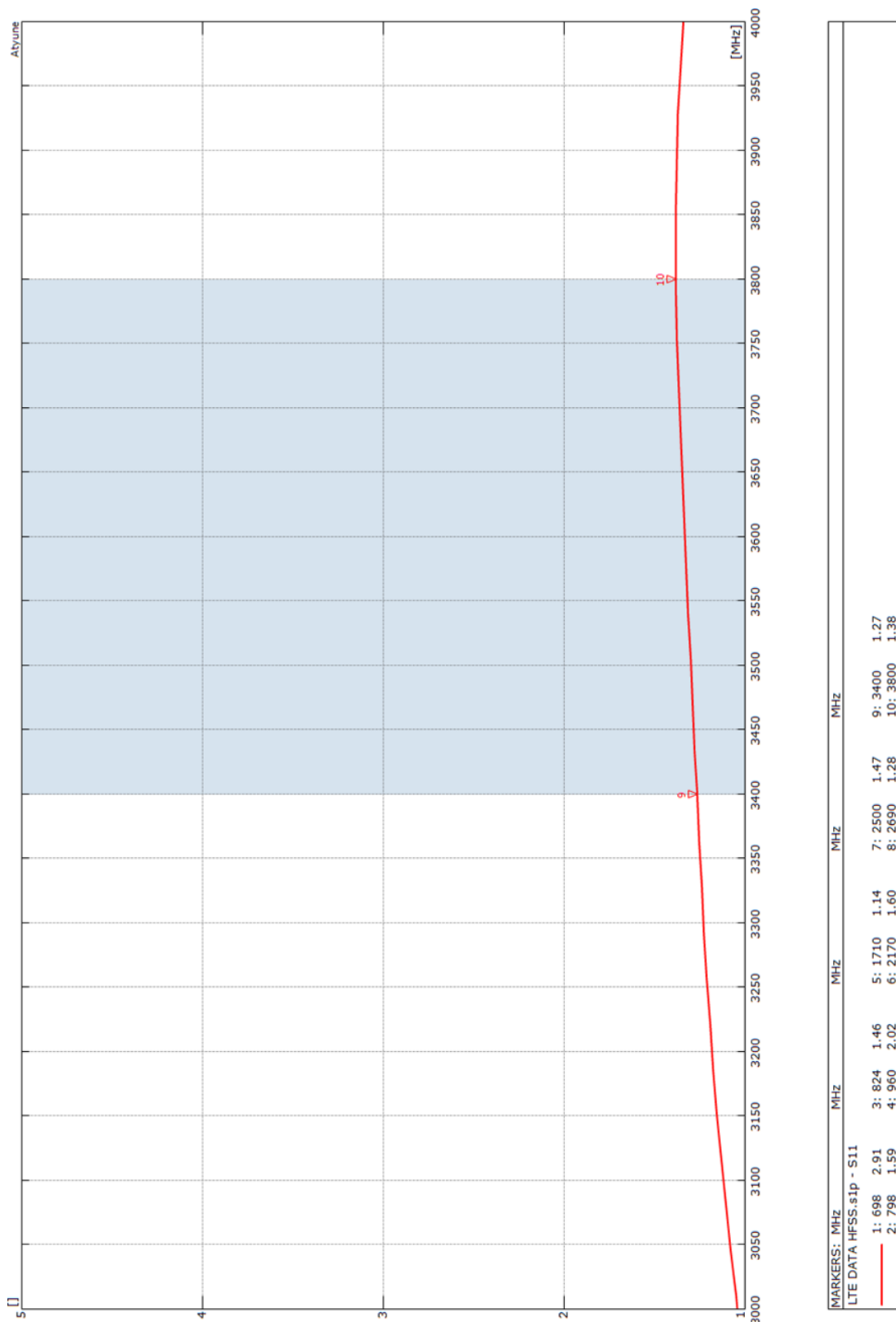
Subject to change without prior notice.

TETRA VSWR Plot



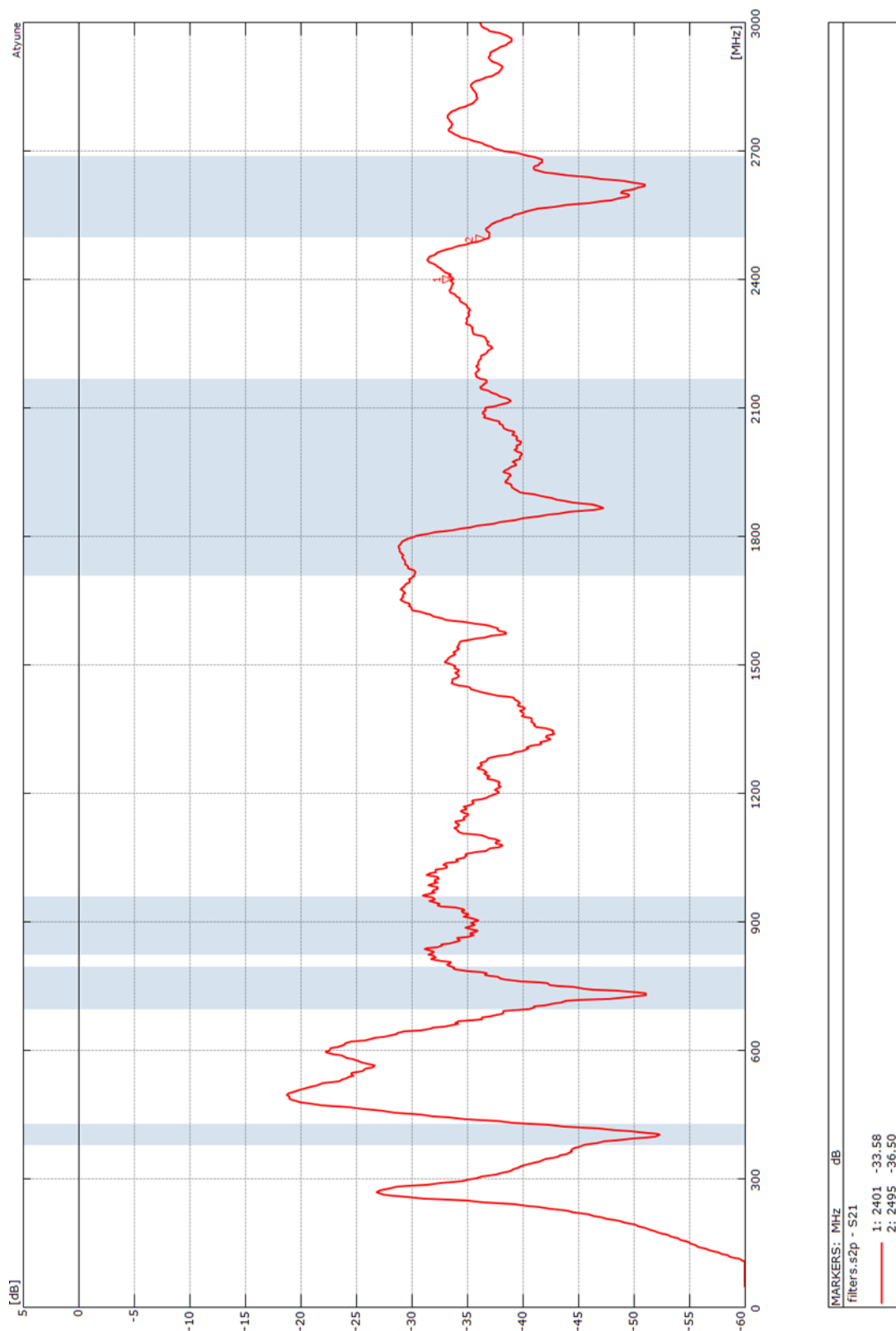
Subject to change without prior notice.

5G VSWR Plot



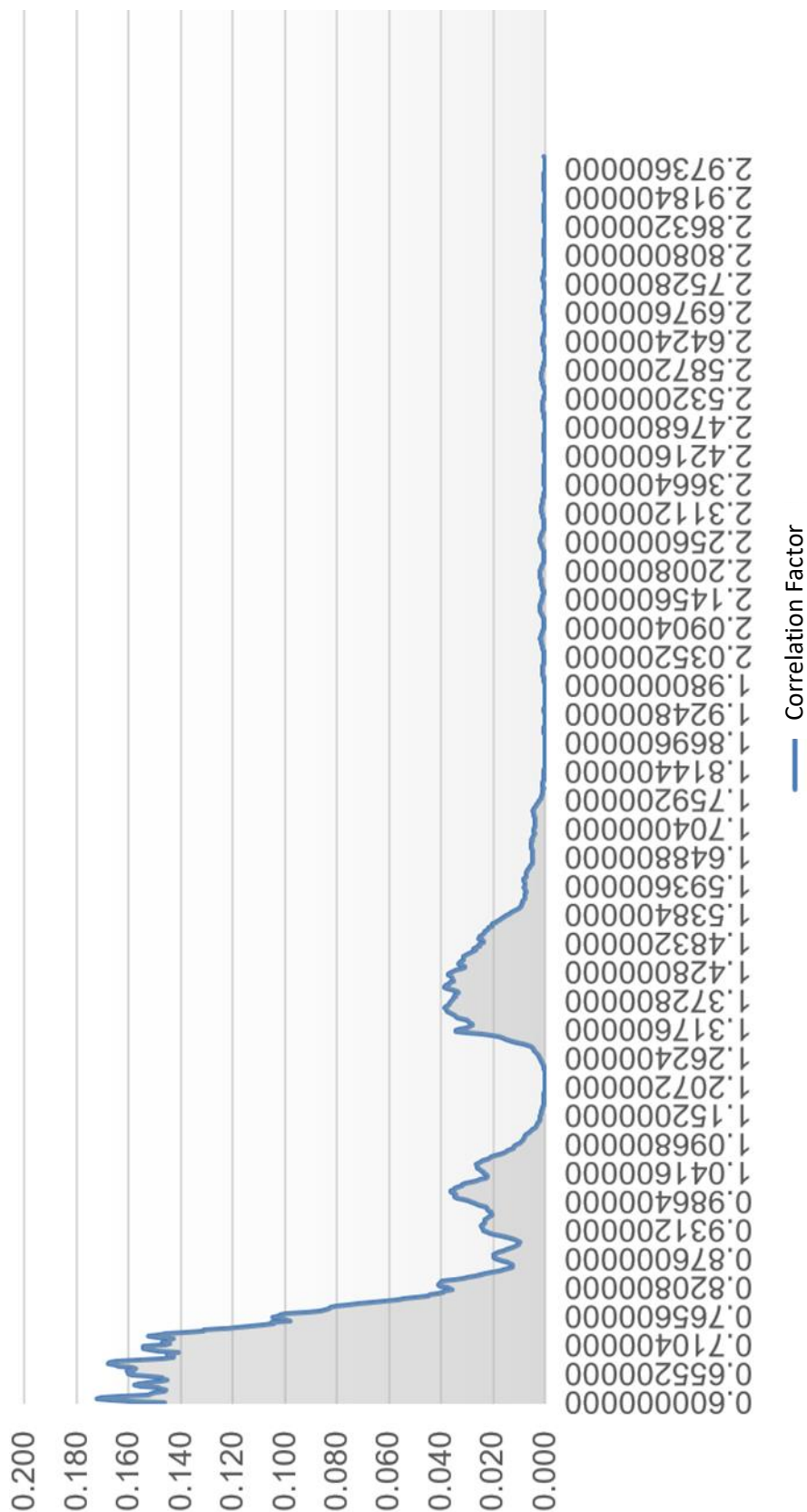
Subject to change without prior notice.

TETRA & LTE Isolation



Subject to change without prior notice.

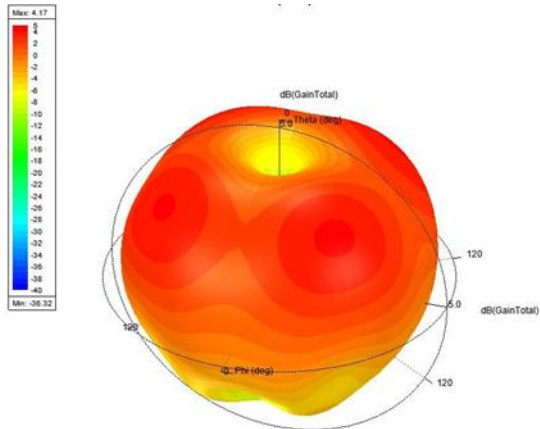
LTE Correlation Coefficient



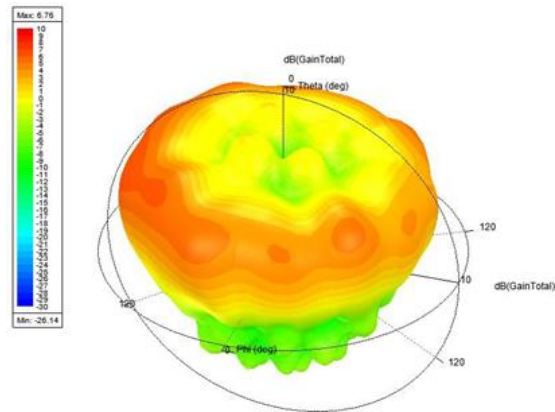
Subject to change without prior notice.

3D Radiation Pattern

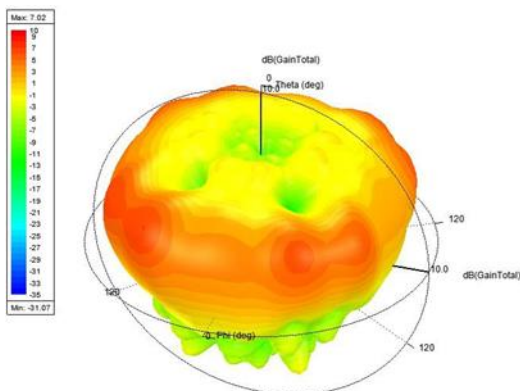
820MHz



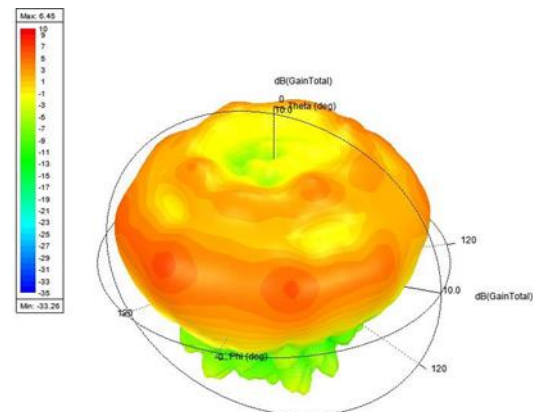
1820MHz



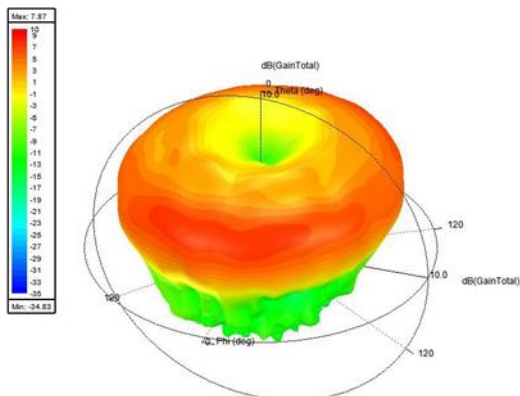
2140MHz



2600MHz

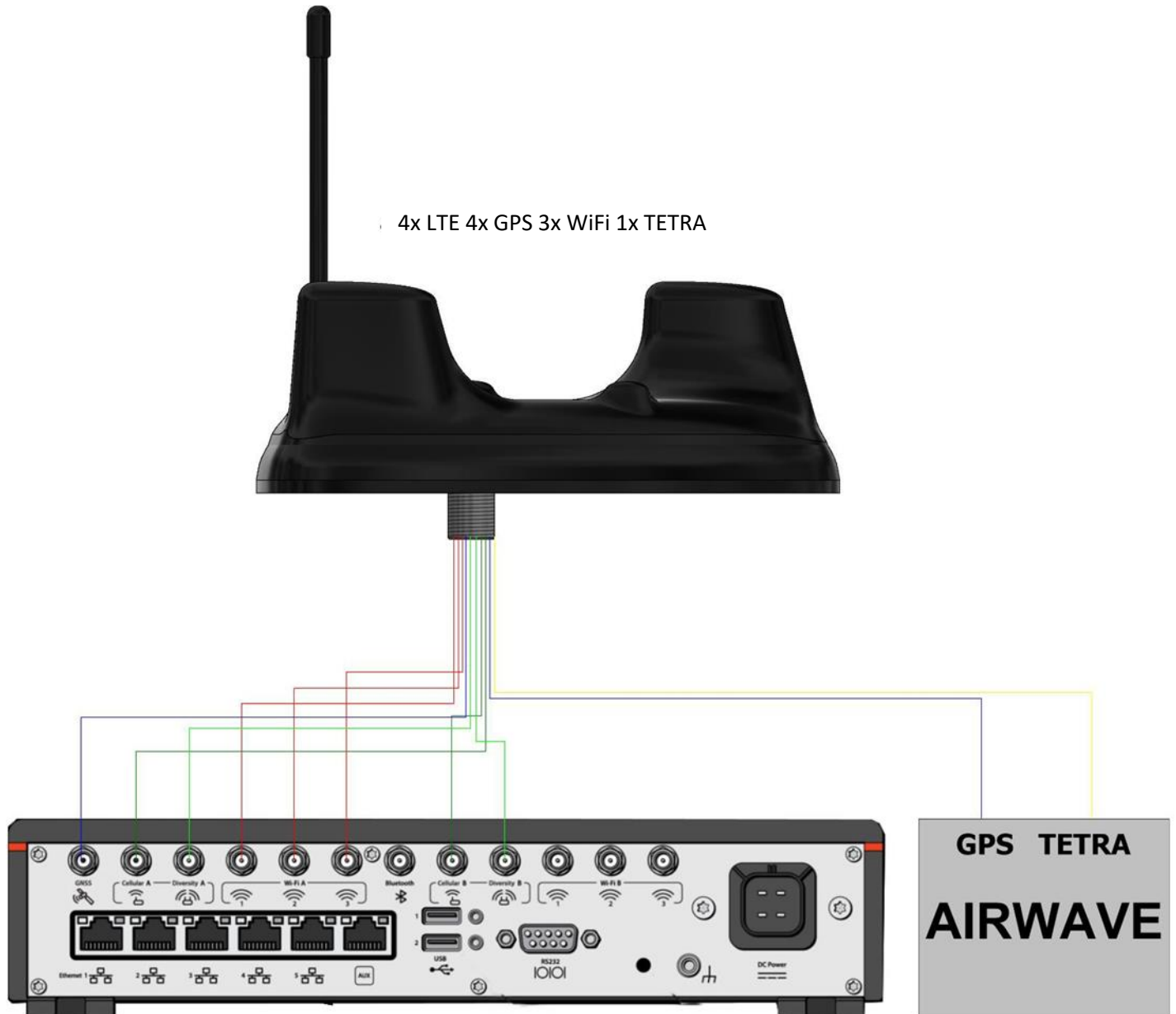


3600MHz



Subject to change without prior notice.

Example of Vehicle Modem and Airwave Radio Installation



Subject to change. Image also shows custom coax cable fitting kit.

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