

SK0200140 'Mallard' 5-in-1 Antenna Black
incl. 5m Coax Cables



The 'Mallard' is a low-profile, multifunction antenna designed to **future-proof** blue-light and amber-light vehicle fleets, delivering **up to 9 functions** within a single, panel-mounted unit. This variant incorporates **5 functions**.

With market leading isolation to **support ESN**, as well as your current **TETRA radio**, there is no need to drill multiple holes into your vehicle's roof due to **additional fitting kit options**.

The 'Mallard' supports **2x2 MiMo from 698MHz to 6GHz** with a minimum **4dBi gain** across the whole band. With the additional functionality of **4x4 MiMo 2.4/5.8GHz Wi-Fi function**, **2x GPS/GNSS Ports**, this antenna would be an ideal solution for future proofing your new vehicle installations for ESN.

With a single hole installation and a **wide frequency bandwidth** on offer, this antenna would help **reduce installation costs** and protect your vehicles resale value. For **other available cable options**, please contact us.

Also Available in White: Part No. SK0200200



Part No.	Cable Kit Options
SK0200140	Product Kit : Mallard 5 in 1 Antenna : Black : Inc 5m Low Loss Coax Extension Cables - Terminated
SK0200142	Product Kit : Mallard 5 in 1 Antenna : Black : Inc 3m Low Loss Coax Extension Cables - Terminated

Additional options available upon request.

Technical Specifications

Part No.	SK0200140	
Electrical Data	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	698-6000 MHz	2.4 GHz & 5.8GHz
Band	2x2 MiMo 2G 3G 4G 5G	2x2 MiMo Dual Band Wi-Fi
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)	
Cable	2x 230mm RG316 Terminated to SMA (m)	
Mechanical Data		
Dimensions (mm)	H80xW70xL230	
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)	
Material	ABS/PC	
Colour	Black	
Weight (g)	310	
Ingress Protection	IP66	
Cable Data		
Cable Type	RG316	RG316
length	160mm	200mm
Diameter	2.8	2.8
Termination	SMA (f)	SMA (m) Reverse Polarity
Mounting Data		
Mounting Type	Panel mount	
Mounting Hole (mm)	15mm	
Max Panel Thickness (mm)	10mm	

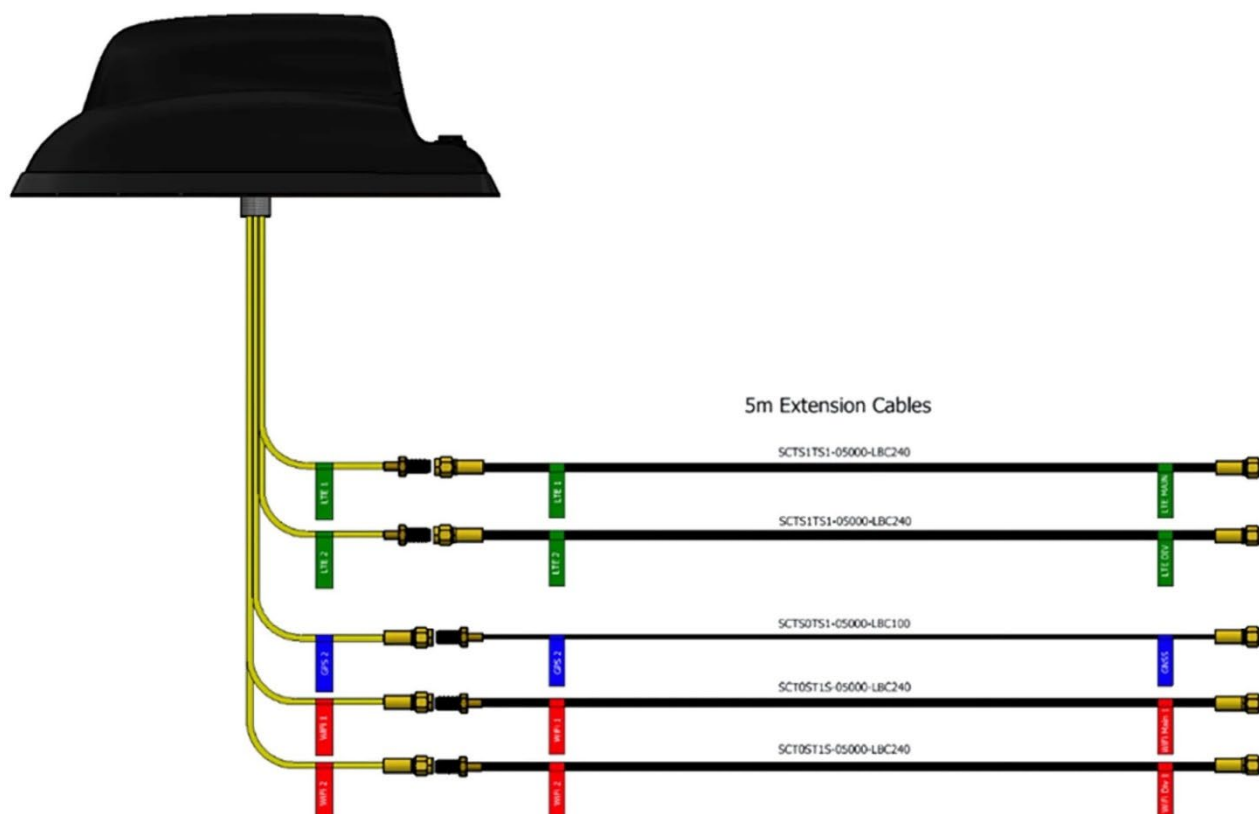
Subject to change without prior notice.

SK0200140 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables

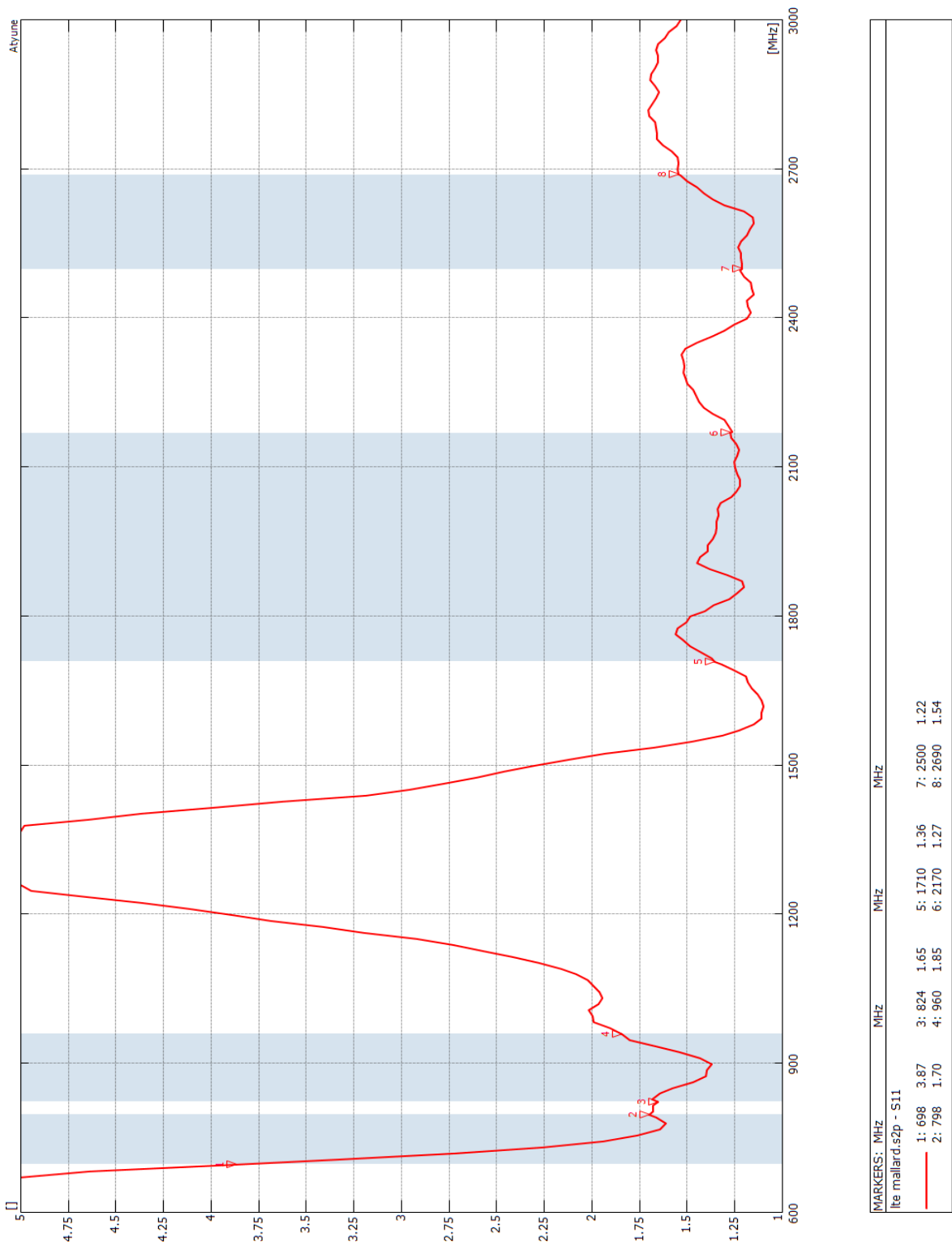
Supplied Coax Extension Cables

Coax Cables	2x 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

Cable Diagram

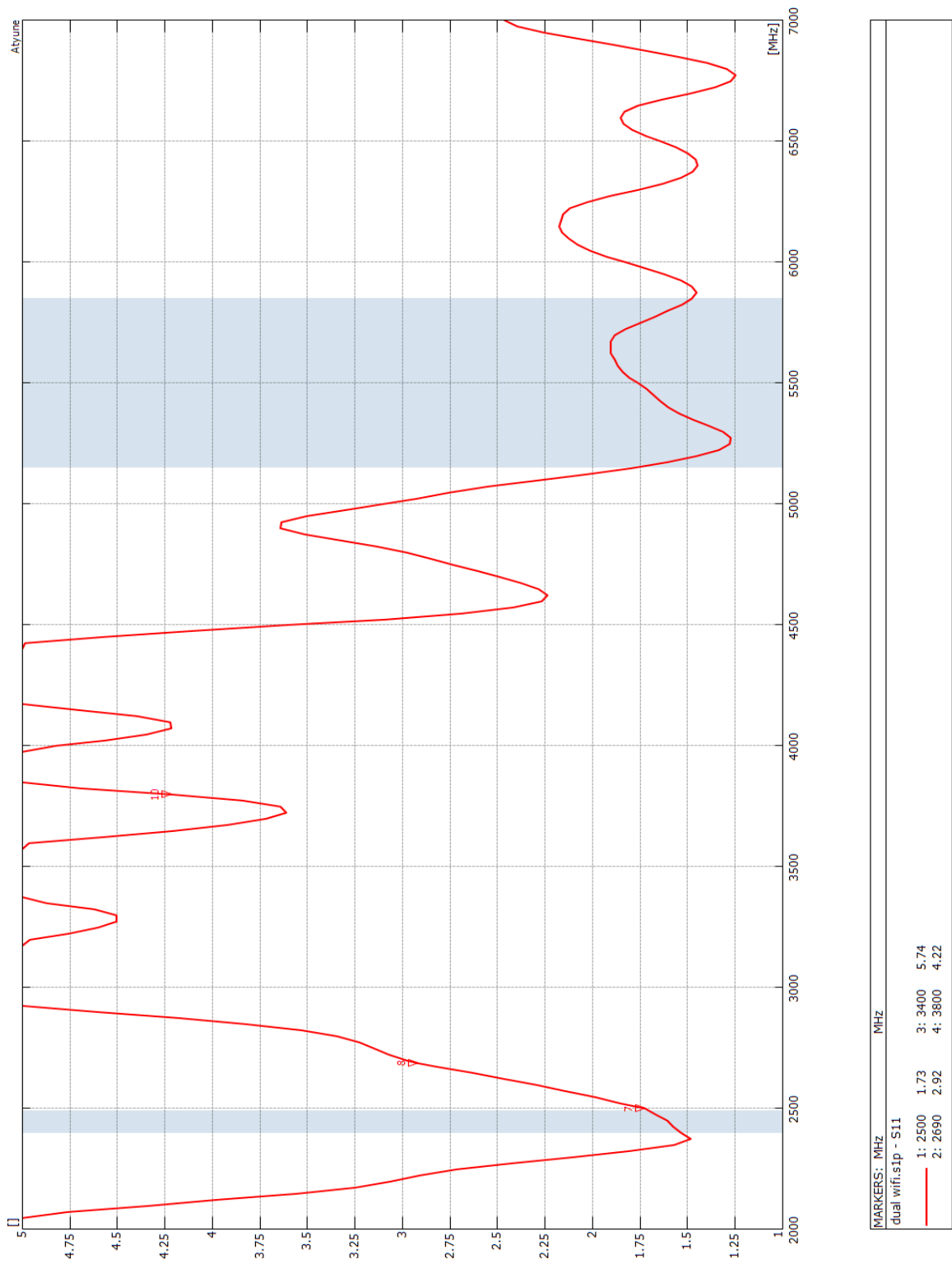


LTE VSWR Plot



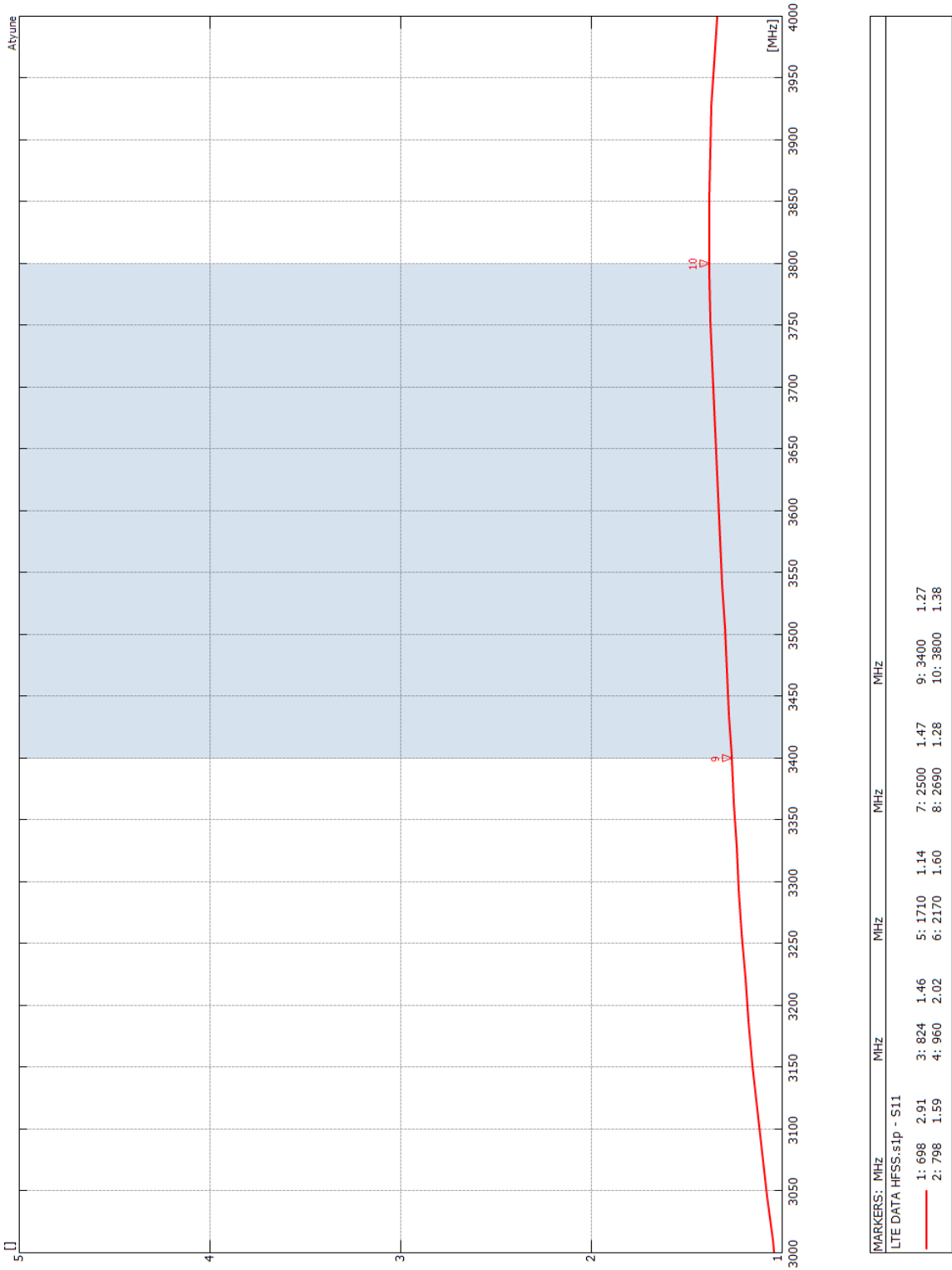
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Wi-Fi VSWR Plot



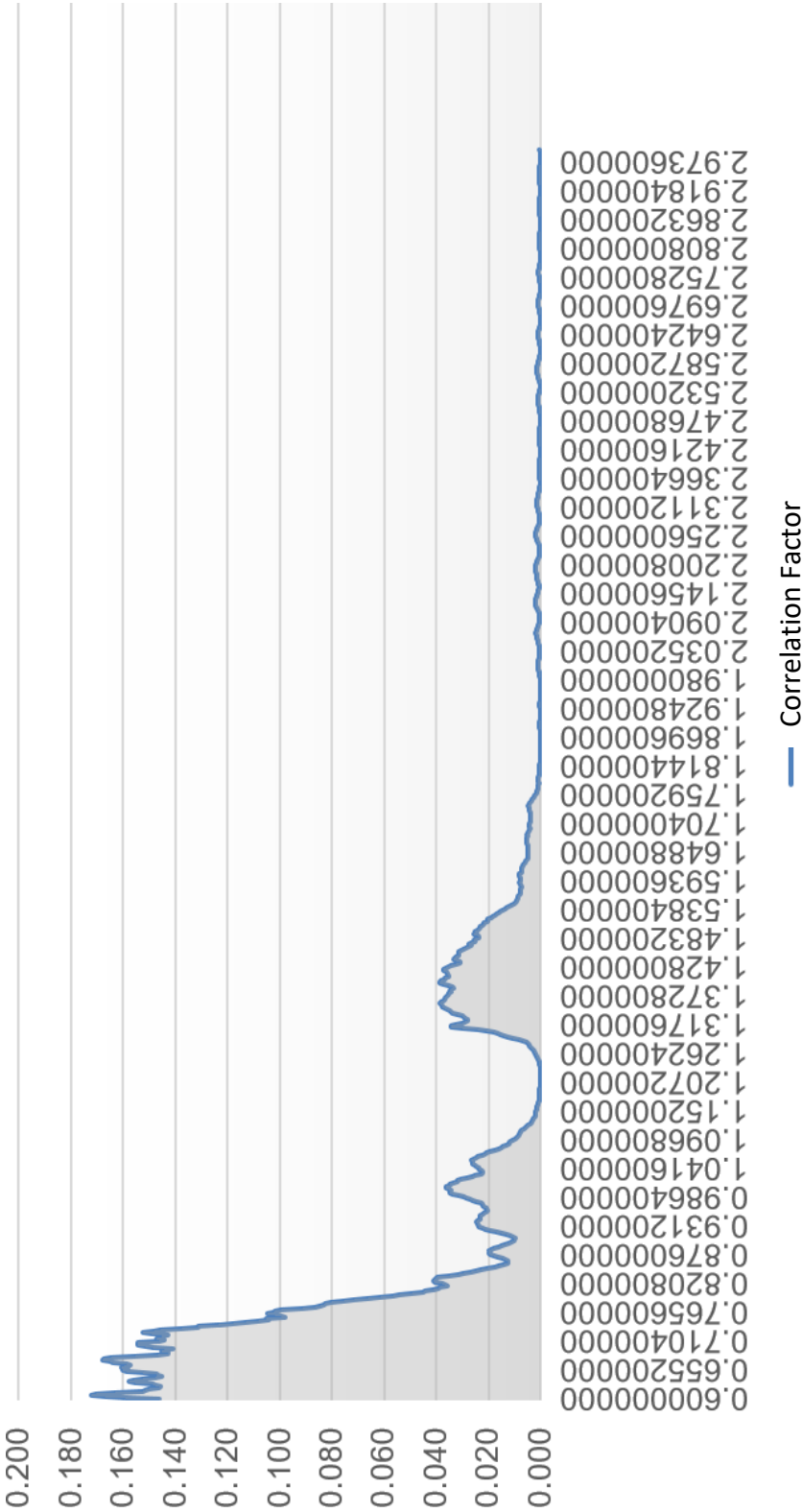
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5G VSWR Plot



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LTE Correlation Coefficient



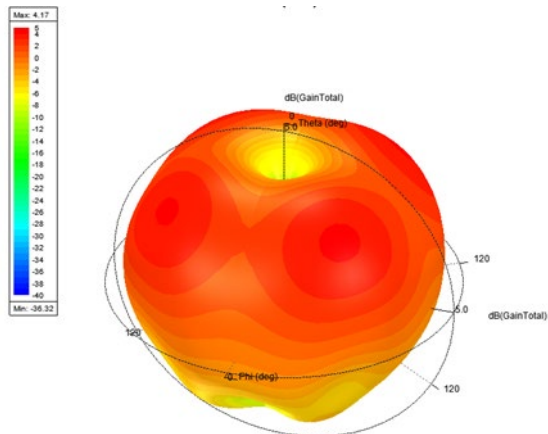
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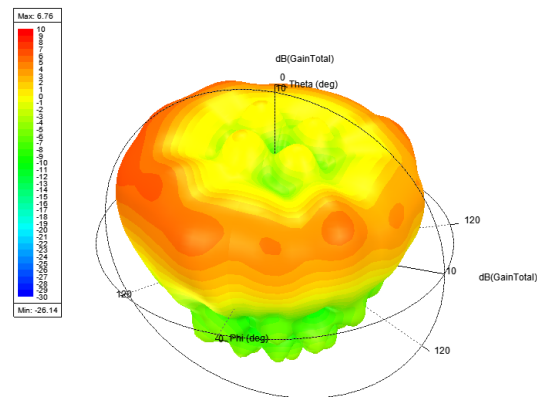


Antenna 3D Gain Plots

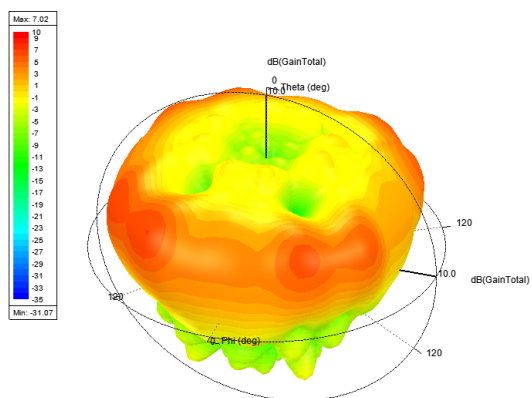
820MHz



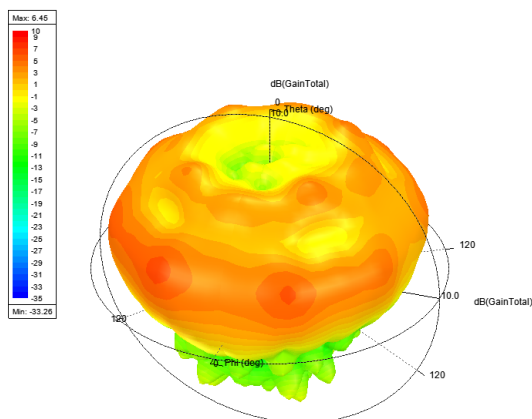
1820MHz



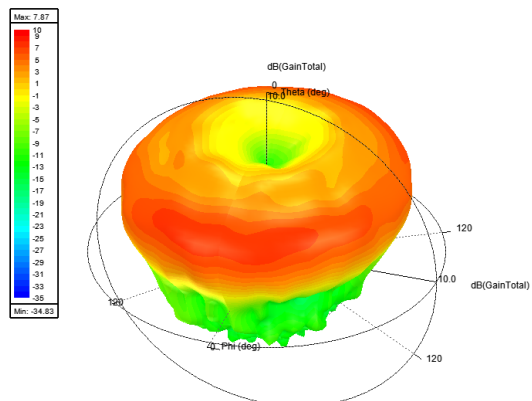
2140MHz



2600MHz



3600MHz



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