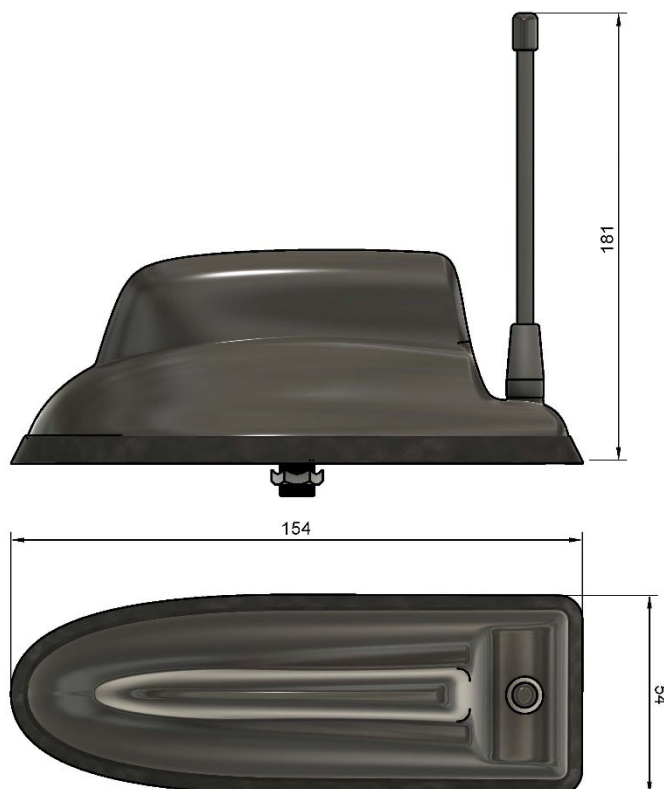


SK0200909 'Mallard' 9-in-1 Antenna Black incl. 5m Coax Cables - TETRA

SureAntennas[®]

5 YEARS WARRANTY



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.

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 **4x4 MiMo from 698MHz to 6GHz** with a minimum **4dBi gain** across the whole band. With the additional functionality of **2x2 MiMo 2.4/5.8GHz Wi-Fi function**, **2x GPS/GNSS Ports**, and **TETRA**, 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. SK02003919



Part No.	Cable Kit Options
SK0200908	Product Kit : Mallard 9 in 1 Antenna : Black : 4xLTE 2xGPS 2xWiFi 1xTETRA Inc 3m Low Loss Coax Cables - Terminated
SK0200313	Mallard 9 in 1 Black - LTE 2x2 MiMo 5G 4G 3G 2G, 4x4 WiFi 2x GPS & 1x Tetra. Inc 3m Modem Cables

Additional options available upon request.

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MOBILE RADIO

SK0200909 'Mallard' 9-in-1 Antenna Black incl. 5m Coax Cables - TETRA



Technical Specifications

Part No.	SK0200909		
Electrical Data	TETRA	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz	2.4 GHz & 5.8GHz
Band	TETRA	4x4 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	<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			
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	RG316
length	280mm	160mm	200mm
Diameter	2.8	2.8	2.8
Termination	TNC (f)	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. *Excluding external antenna.

SK0200909 'Mallard' 9-in-1 Antenna Black incl. 5m Coax Cables - TETRA



Supplied Coax Extension Cables

Coax Cables	4x LTE	2x Wi-Fi	1x GPS	1x TETRA	1x GPS
Cable Type	SBC240	SBC240	SBC100	SBC195	SBC100
length	5m or 3m	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8	4.95	2.8
Min. Bend Radius (mm)	30	30	14	25	14
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)	SMA (m)	BNC (m)	SMA (m) – Motorola and Sepura adaptors supplied.
Labeling	LTE M & LTE A	Wi-Fi M & Wi-Fi A	GPS	TETRA	GPS TETRA

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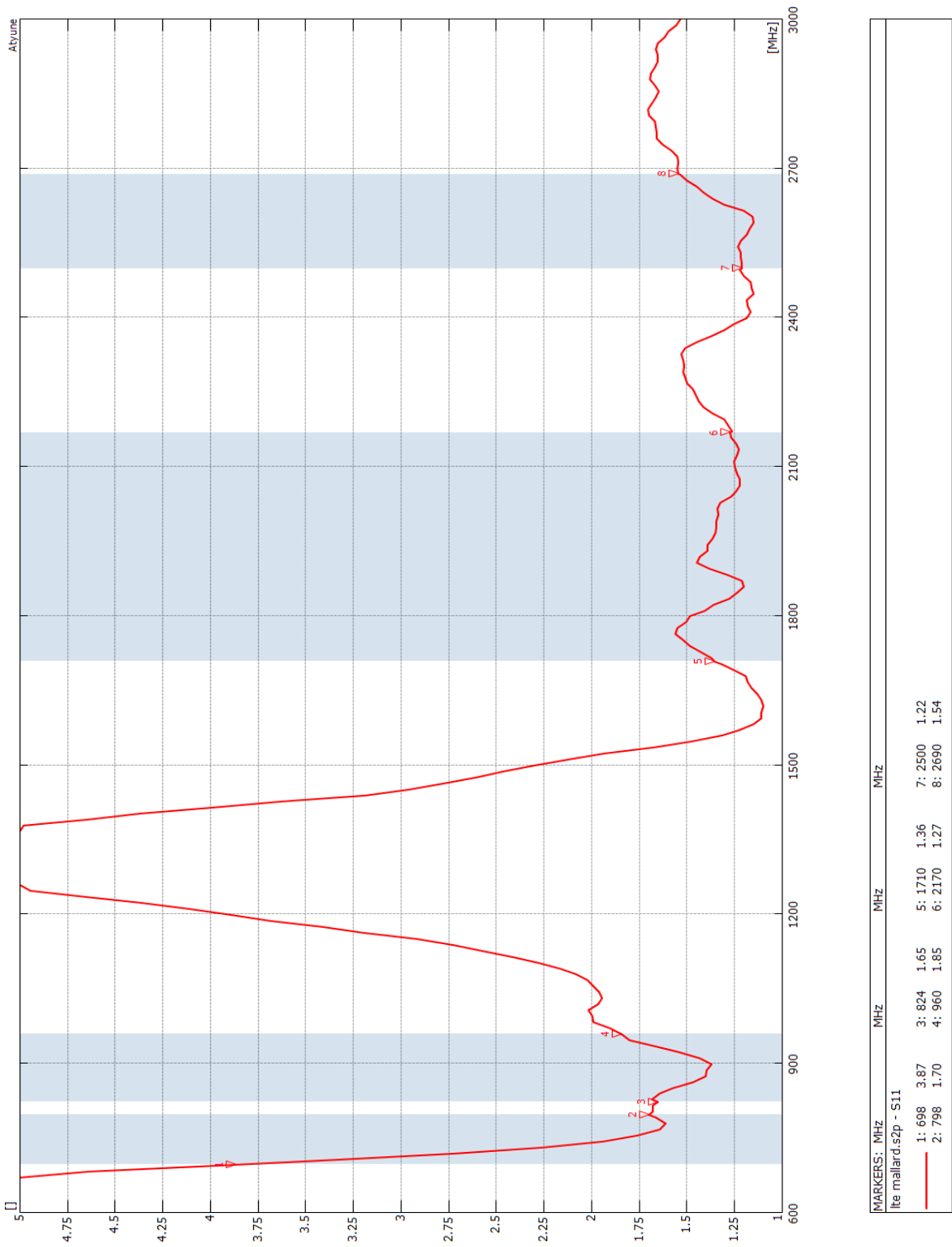


A MEMBER OF



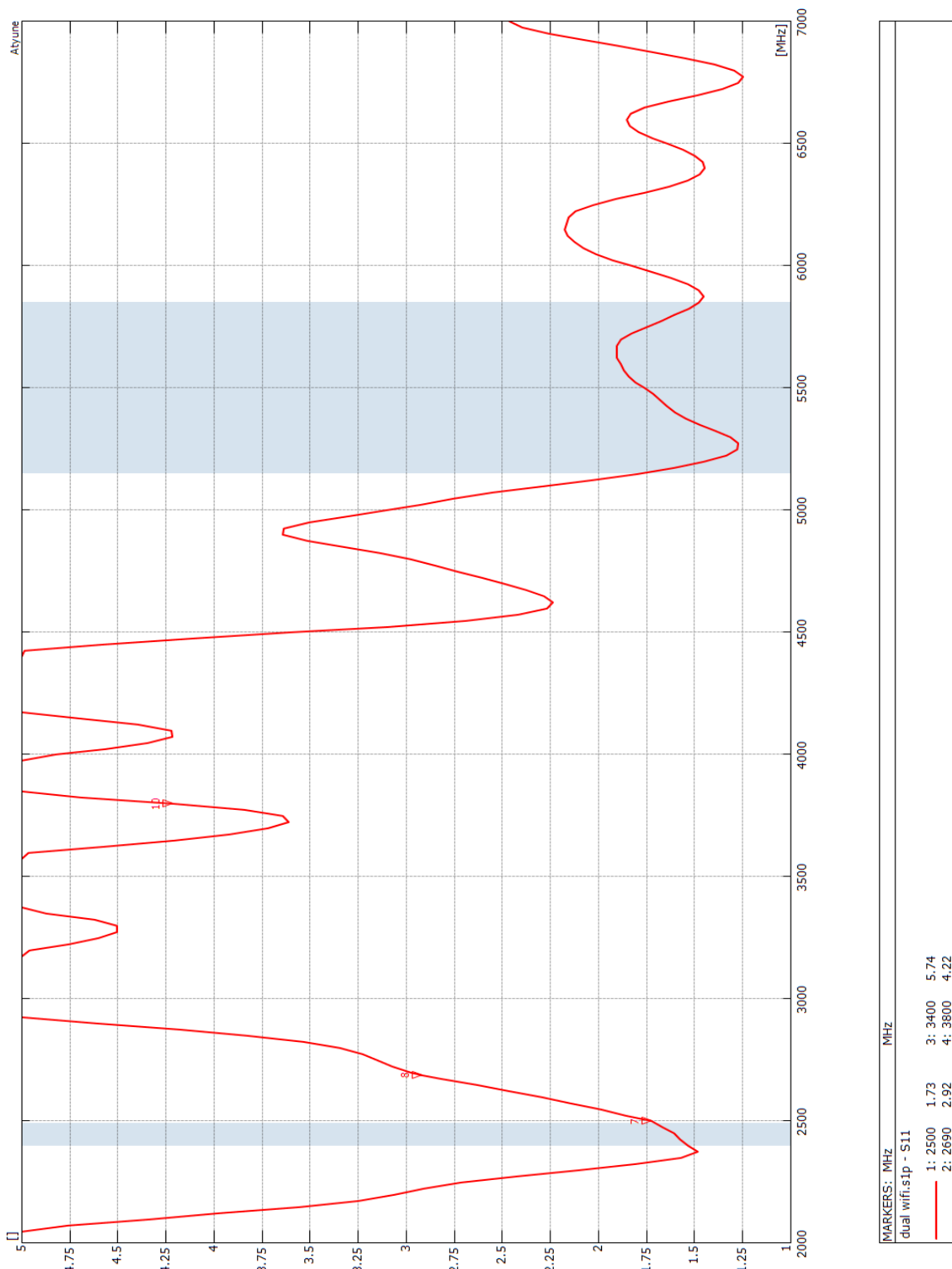
MOBILE RADIO

LTE VSWR Plot



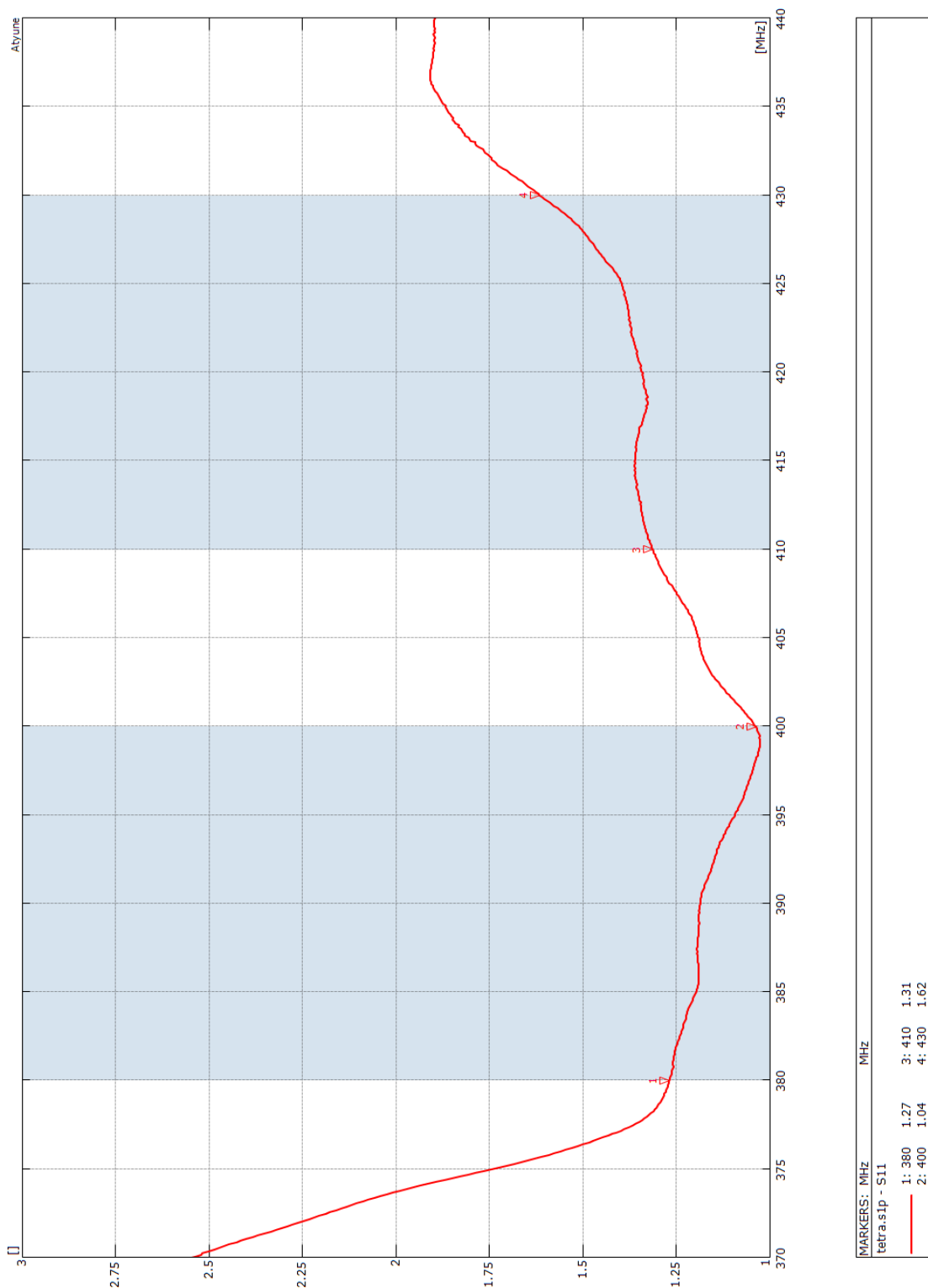
Subject to change without prior notice.

Wi-Fi VSWR Plot



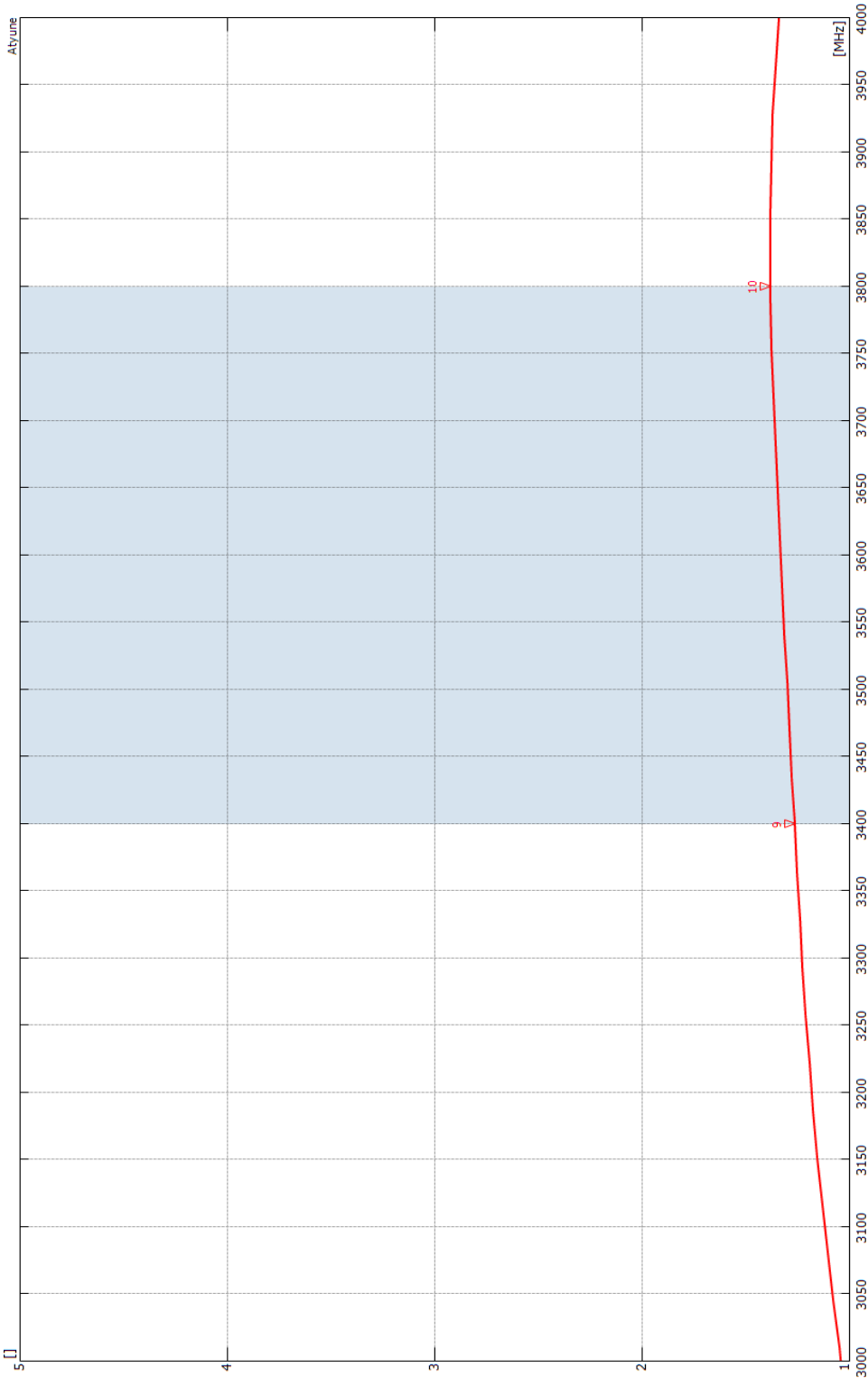
Subject to change without prior notice.

TETRA VSWR Plot



Subject to change without prior notice.

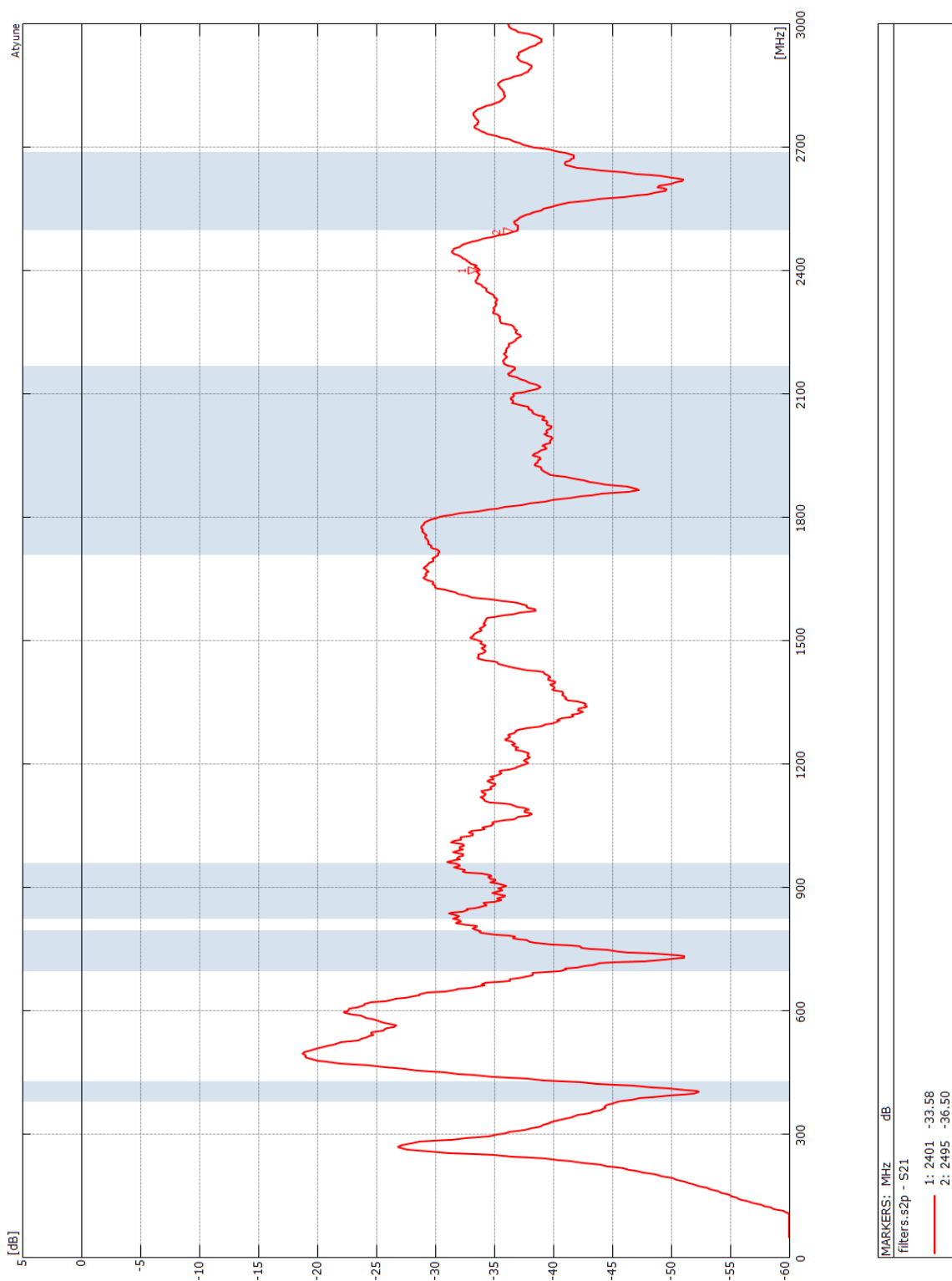
5G VSWR Plot



MARKERS:	MHz	MHz	MHz	MHz	MHz					
LTE DATA HFSS.s1p - S11										
1:	698	2.91	3: 824	1.46	5: 1710	1.14	7: 2500	1.47	9: 3400	1.27
2:	798	1.59	4: 960	2.02	6: 2170	1.60	8: 2690	1.28	10: 3800	1.38

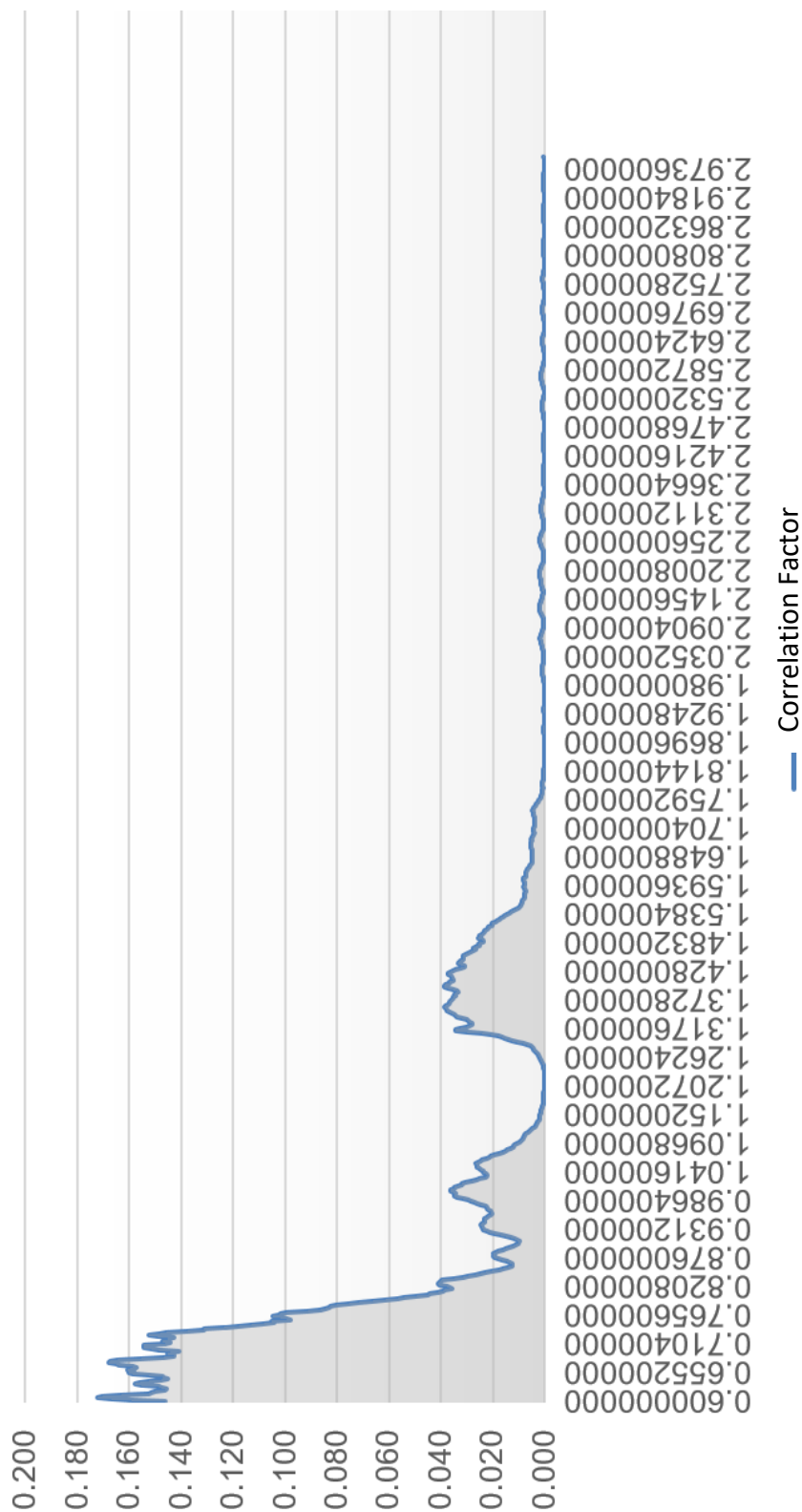
Subject to change without prior notice.

TETRA & LTE Isolation



Subject to change without prior notice.

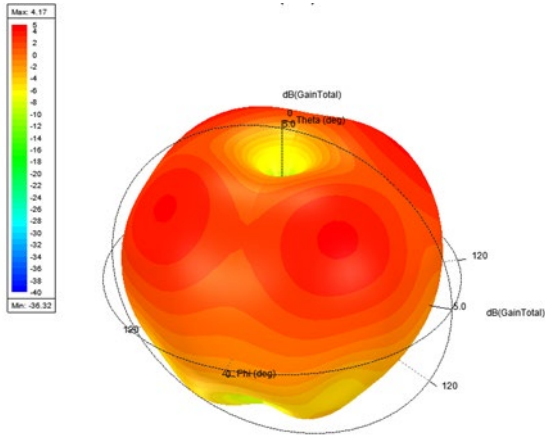
LTE Correlation Coefficient



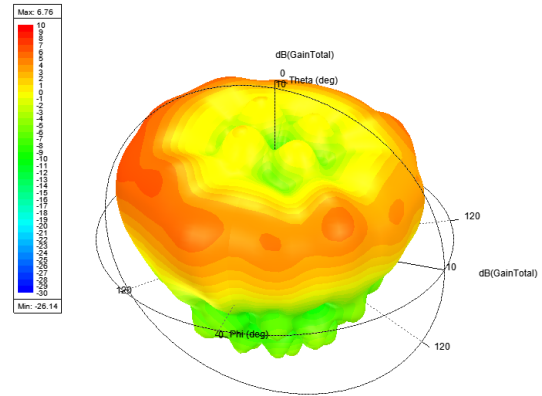
Subject to change without prior notice.

Antenna 3D Gain Plots

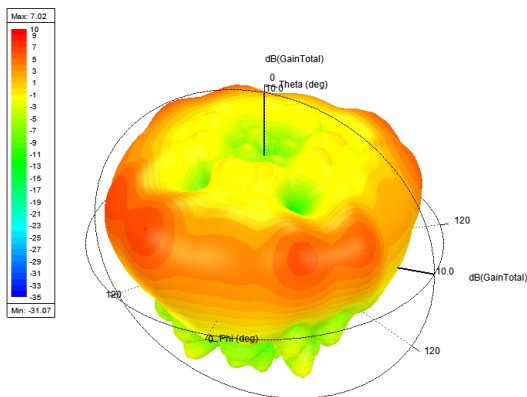
820MHz



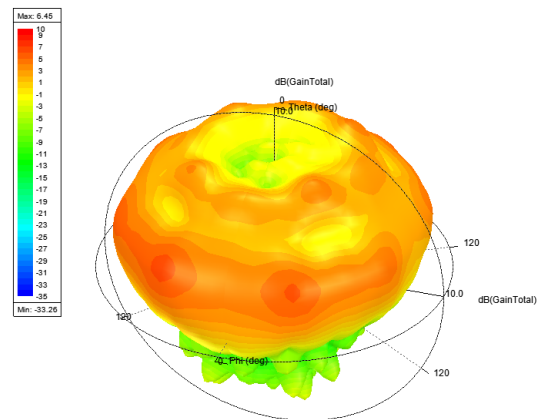
1820MHz



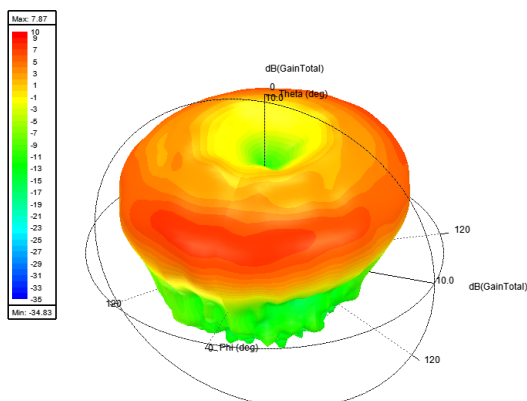
2140MHz



2600MHz



3600MHz



Subject to change without prior notice.