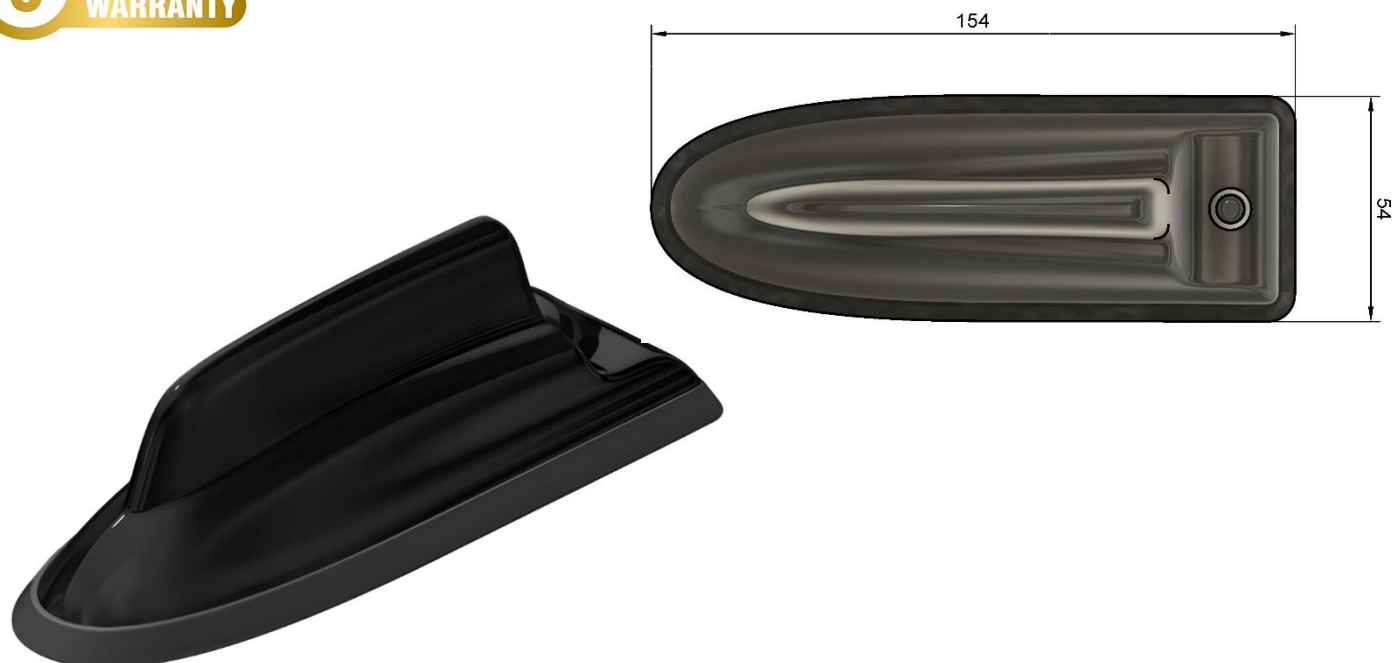


SK0200150 'Mallard' 3-in-1 Antenna Black incl. 5m Coax Cables



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 features **3 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**, 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. SK0200210



Part No.	Cable Kit Options
SK020013	Product Kit : Mallard 3 in 1 Antenna : Black : Inc 3m Low Loss Coax Extension Cables - Motorola - Terminated
SK020016	Product Kit : Mallard 3 in 1 Antenna : Black : Inc 6m Low Loss Coax Extension Cables - Motorola - Terminated

Additional options available upon request.

SK0200150 'Mallard' 3-in-1 Antenna Black incl. 5m Coax Cables



Technical Specifications

Part No.	SK0200150
Electrical Data	2G 3G 4G 5G
Frequency Range (MHz)	698-6000 MHz
Band	2x2 MiMo 2G 3G 4G 5G
VSWR	<2.1:1 TYPICALLY 1.5:1
Gain	Minimum 4dBi
Isolation	<-25dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Power Input (W)	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
length	160mm
Diameter	2.8
Termination	SMA (f)
Mounting Data	
Mounting Type	Panel mount
Mounting Hole (mm)	15mm
Max Panel Thickness (mm)	10mm

Subject to change without prior notice.

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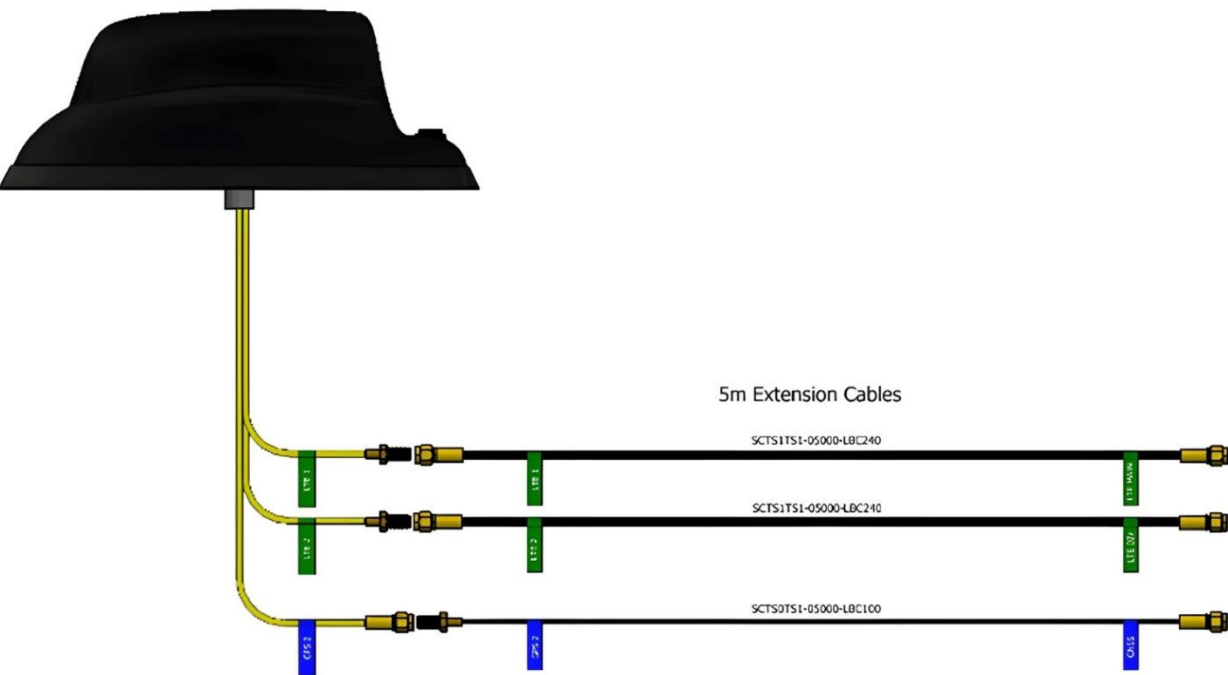
MOBILE RADIO

SK0200150 'Mallard' 3-in-1 Antenna Black incl. 5m Coax Cables

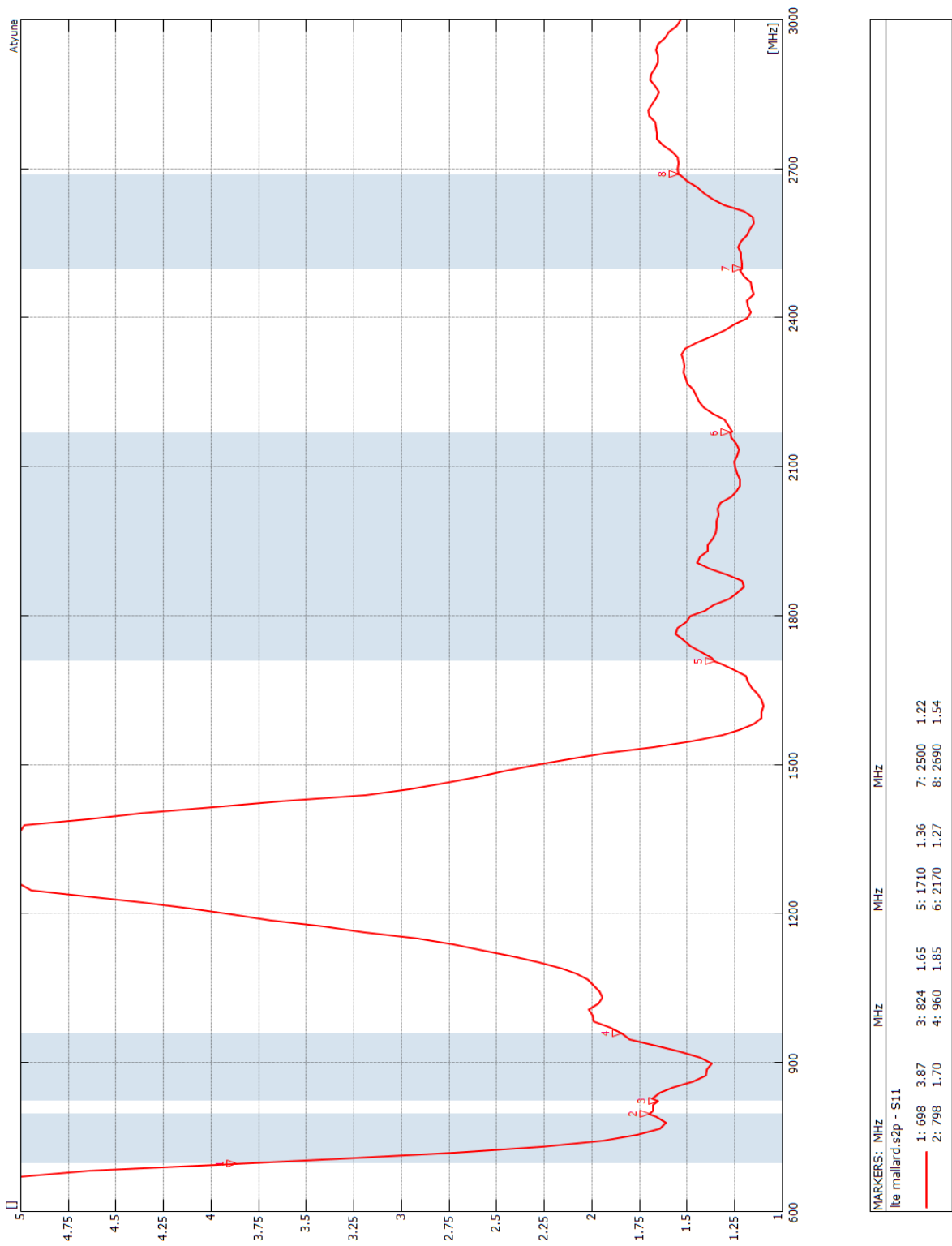
Supplied Coax Extension Cables

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

Technical Drawing



LTE VSWR Plot

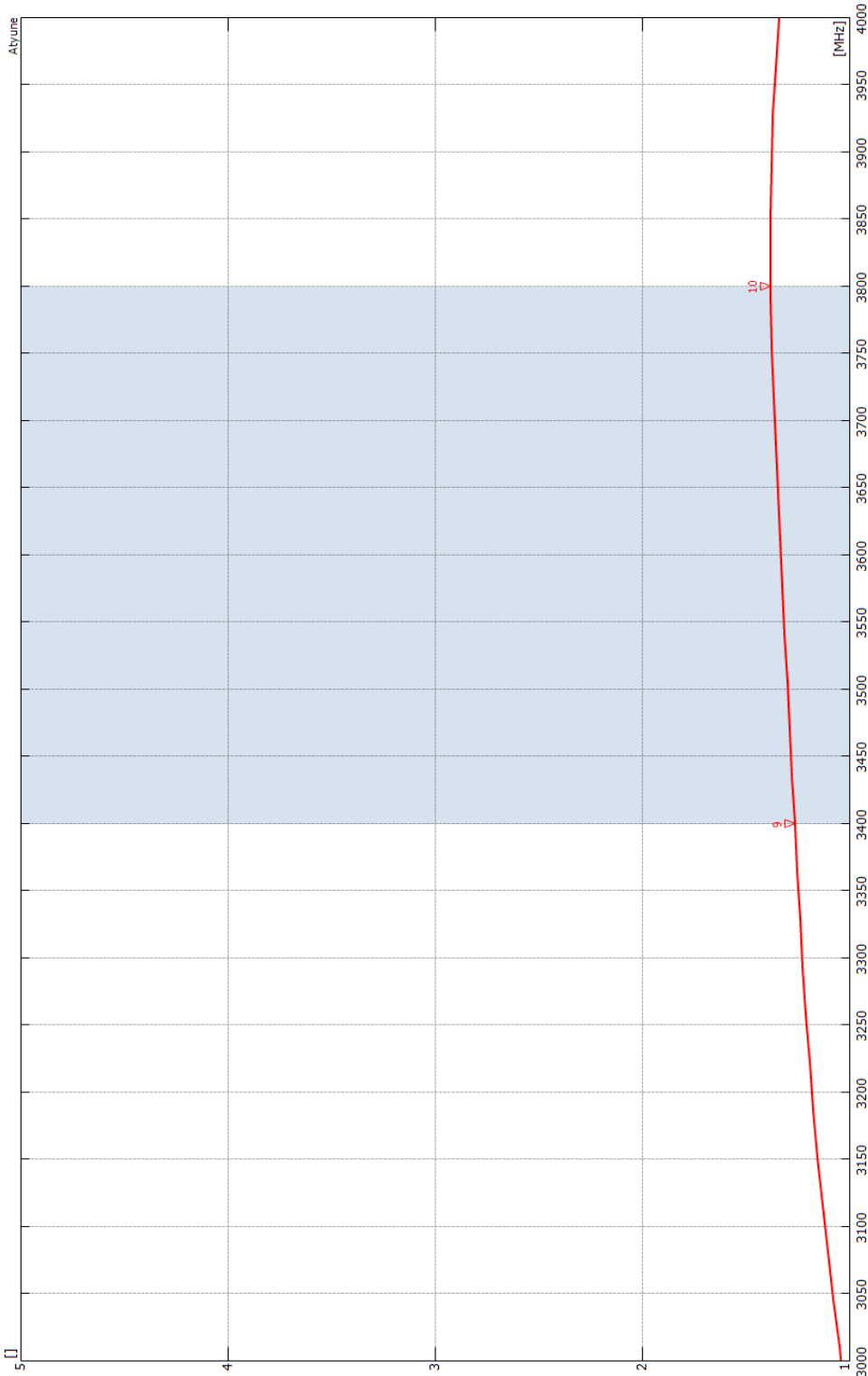


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SK0200150 'Mallard' 3-in-1 Antenna Black
incl. 5m Coax Cables



5G VSWR Plot

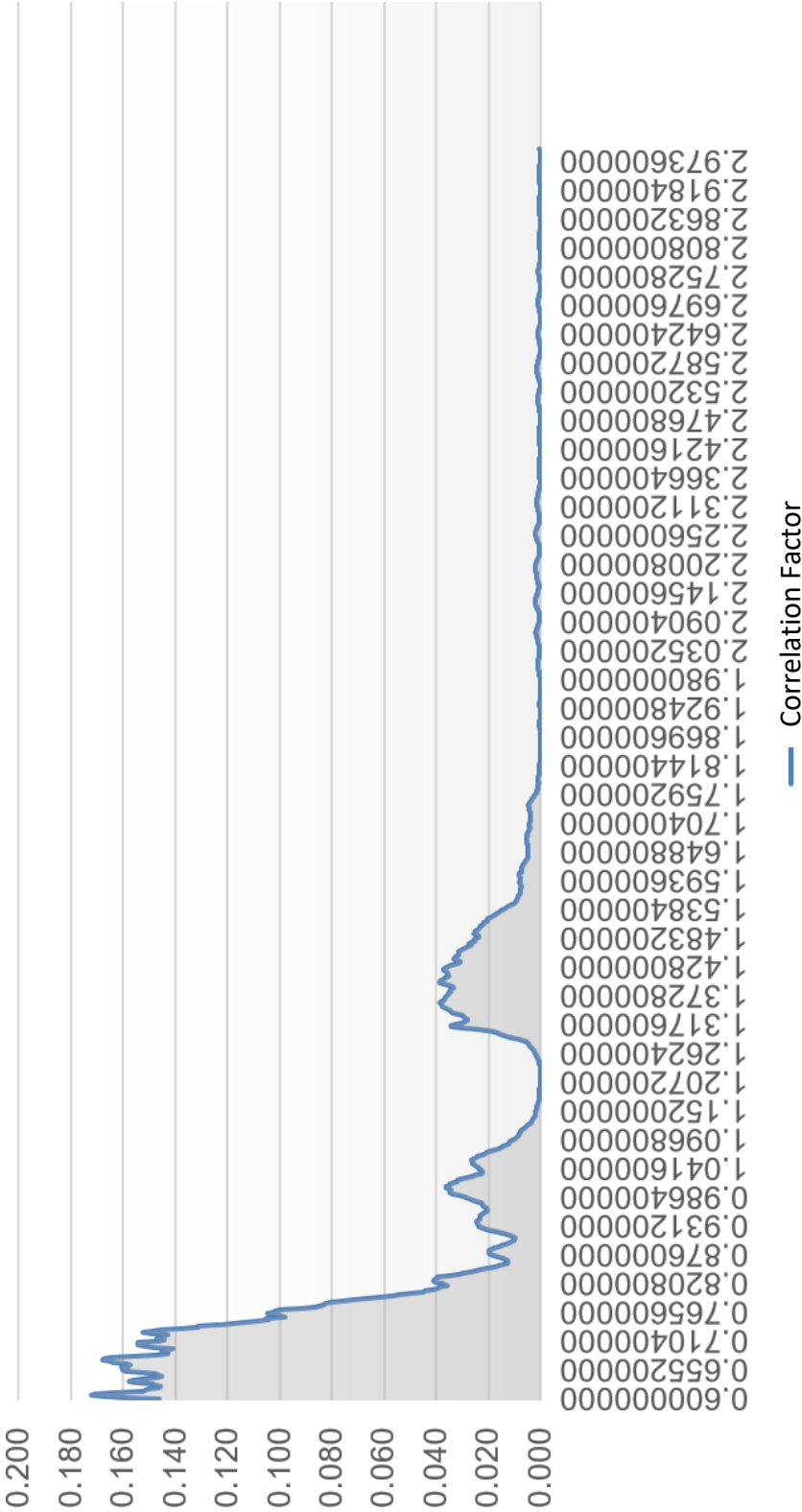


MARKERS: MHz		MHz	MHz	MHz	MHz
LTE DATA HFSS.s1p - S11					
1: 698	2: 91	3: 824	4: 46	5: 1710	6: 14
7: 2500	8: 2690	9: 3400	10: 3800	11: 1.27	12: 1.38

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LTE Correlation Coefficient



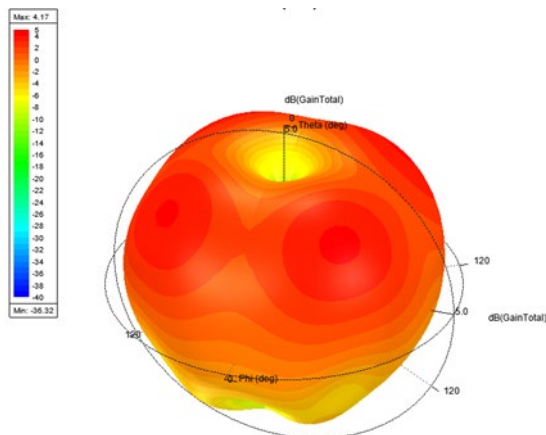
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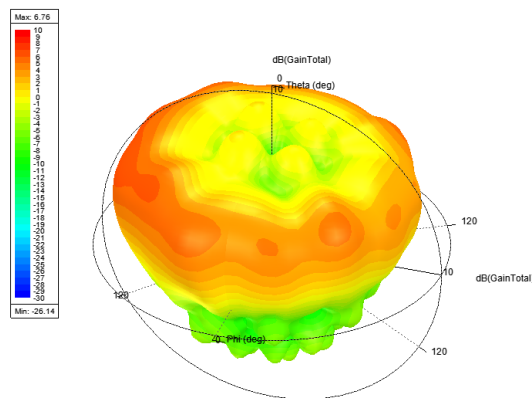


Antenna 3D Gain Plots

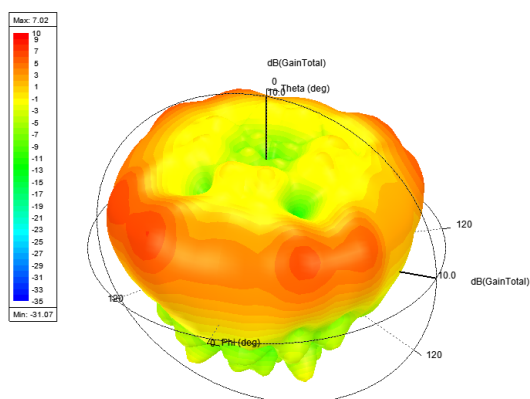
820MHz



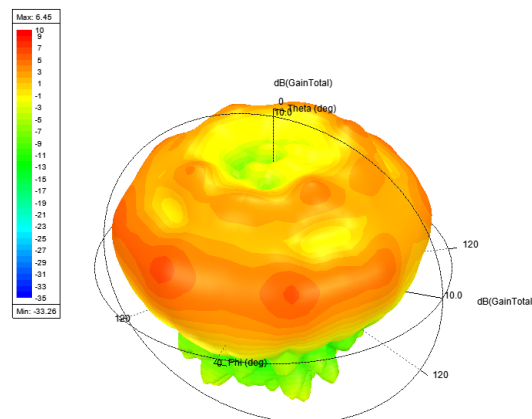
1820MHz



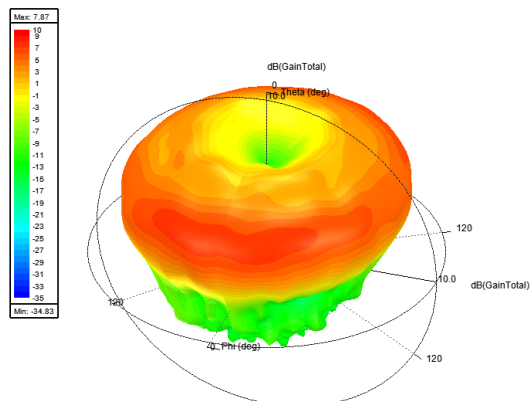
2140MHz



2600MHz



3600MHz



Subject to change without prior notice.

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