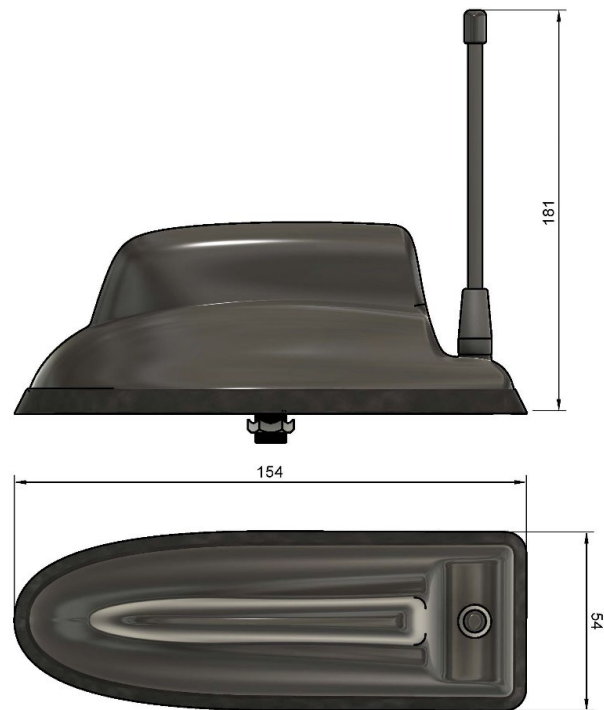


7000-324 'Mallard' 4-in-1 Antenna incl. TETRA

5 YEAR WARRANTY



The '**Mallard**' is a low-profile, multifunction antenna designed for blue-light and amber-light vehicle fleets, combining up to 9 functions within a single panel-mounted unit. With optional fitting kits, the '**Mallard**' can be installed using the existing OEM mounting hole, preventing the need to drill additional holes and maintaining OEM functions.

This variant supports **4 Functions** including **TETRA**, **1x LTE**, **1x WiFi** and **1x GPS**

Supplied Coax Extension Cables

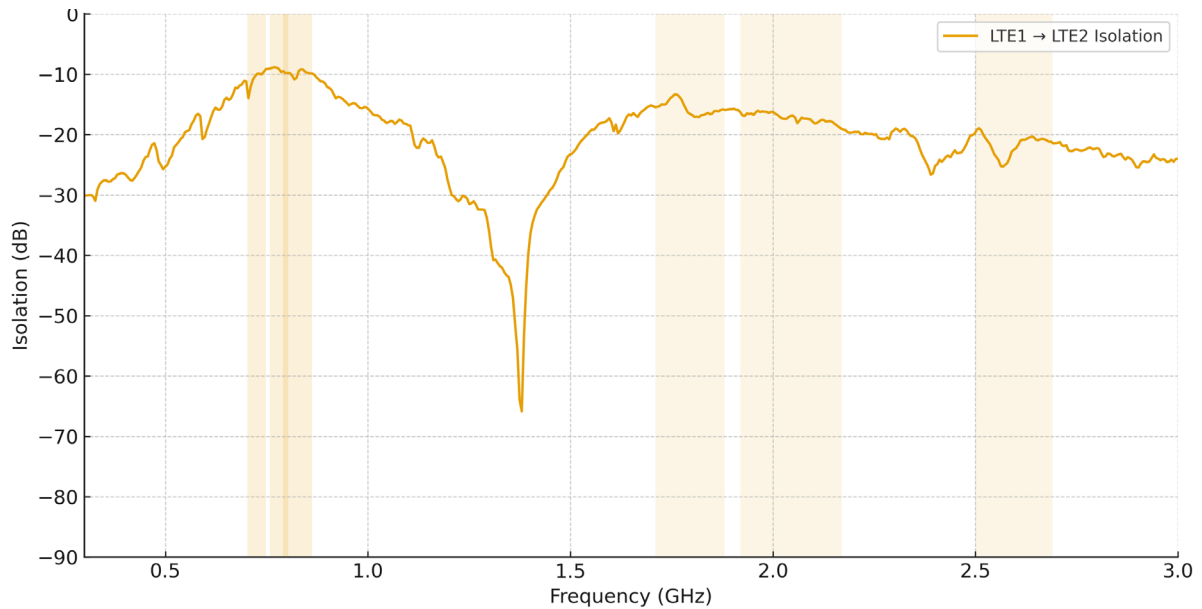
Coax Cables	1x LTE	1x Wi-Fi	1x GPS	1x TETRA
Cable Type	SBC240	SBC240	SBC100	SBC195
length	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8	4.95
Min. Bend Radius (mm)	30	30	14	25
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)	SMA (m)	BNC (m)
Labeling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

Technical Specifications

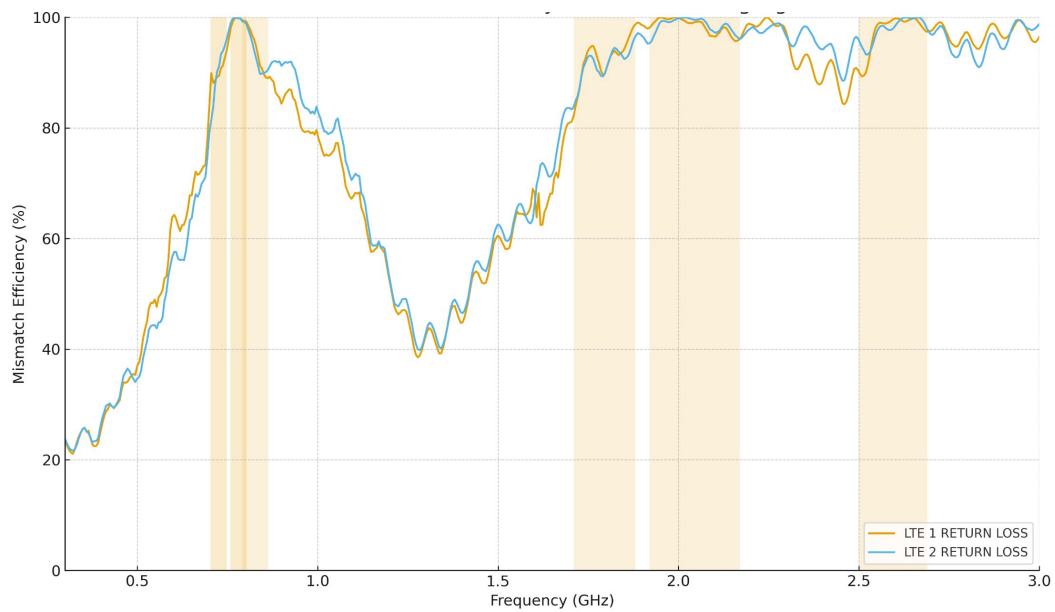
Part No.		7000-324		
Electrical Data		TETRA	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz	2.4 GHz & 5.8GHz	
Band	TETRA	2x2 MiMo 2G 3G 4G 5G	2x2 MiMo Dual Band Wi-Fi	
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1	
Gain	5dBi	Minimum 4dBi	Minimum 4dBi	
Isolation	-	<-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

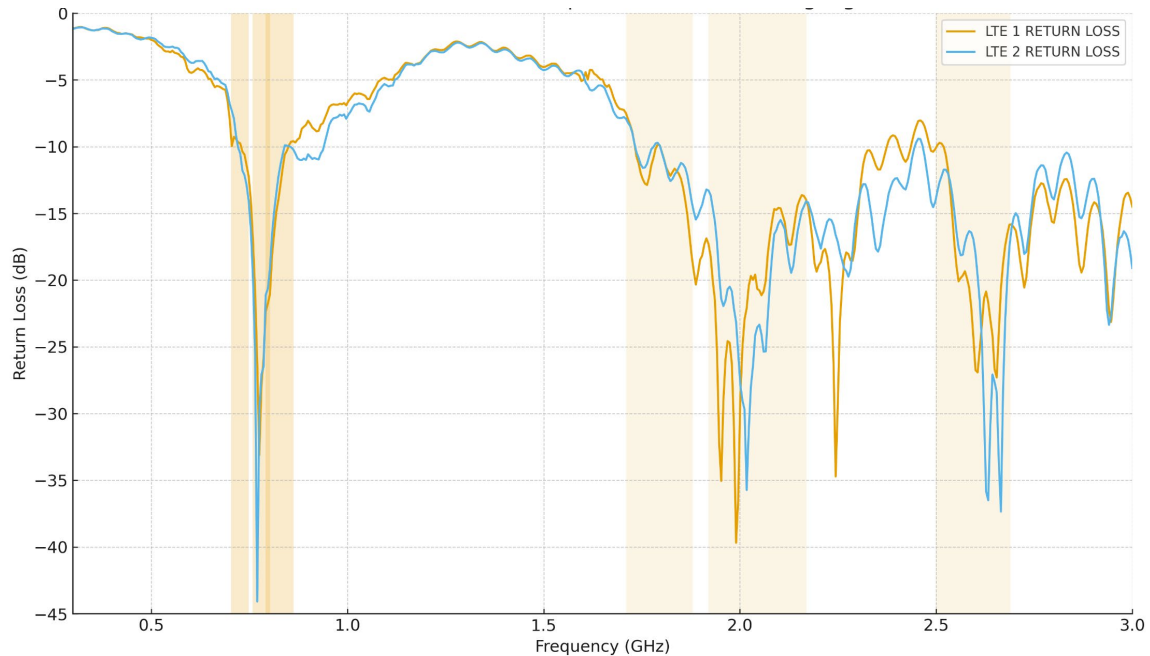
LTE Isolation



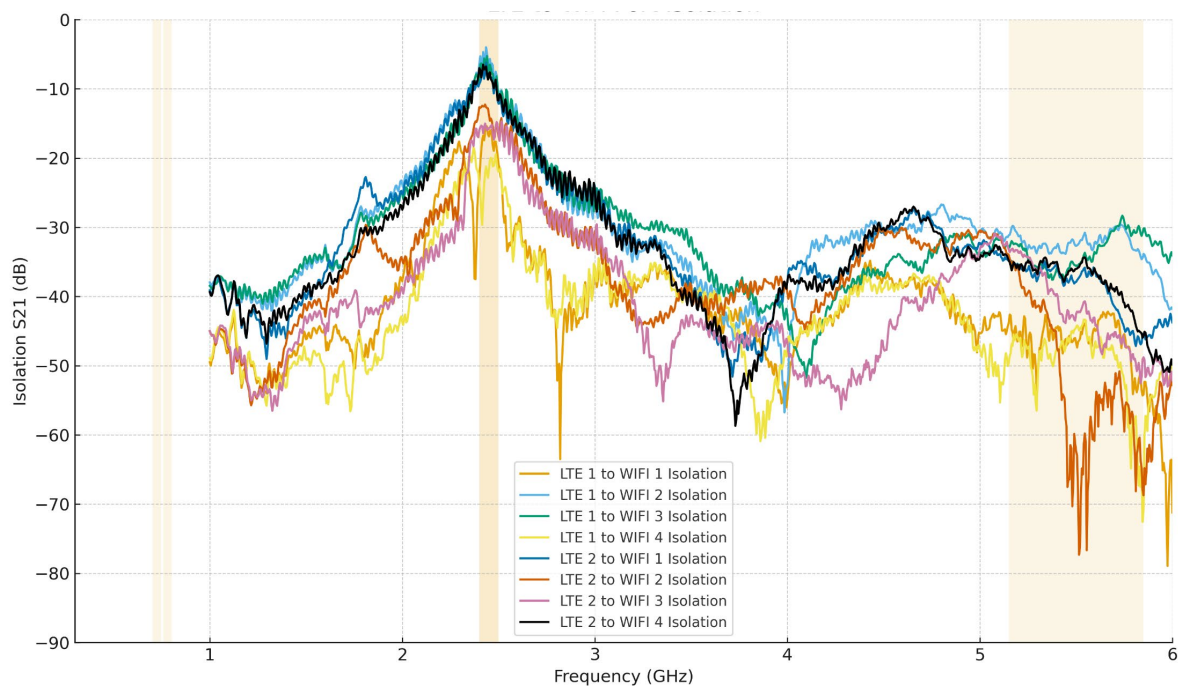
LTE Port Mismatch Efficiency



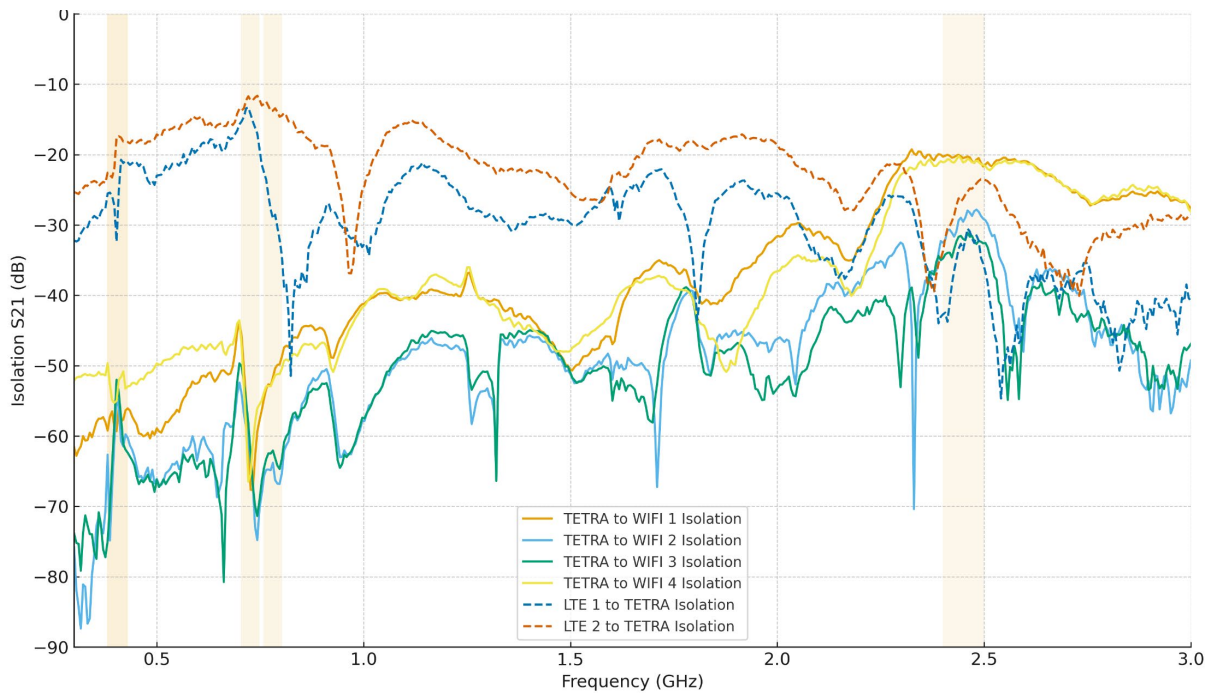
LTE Return Loss



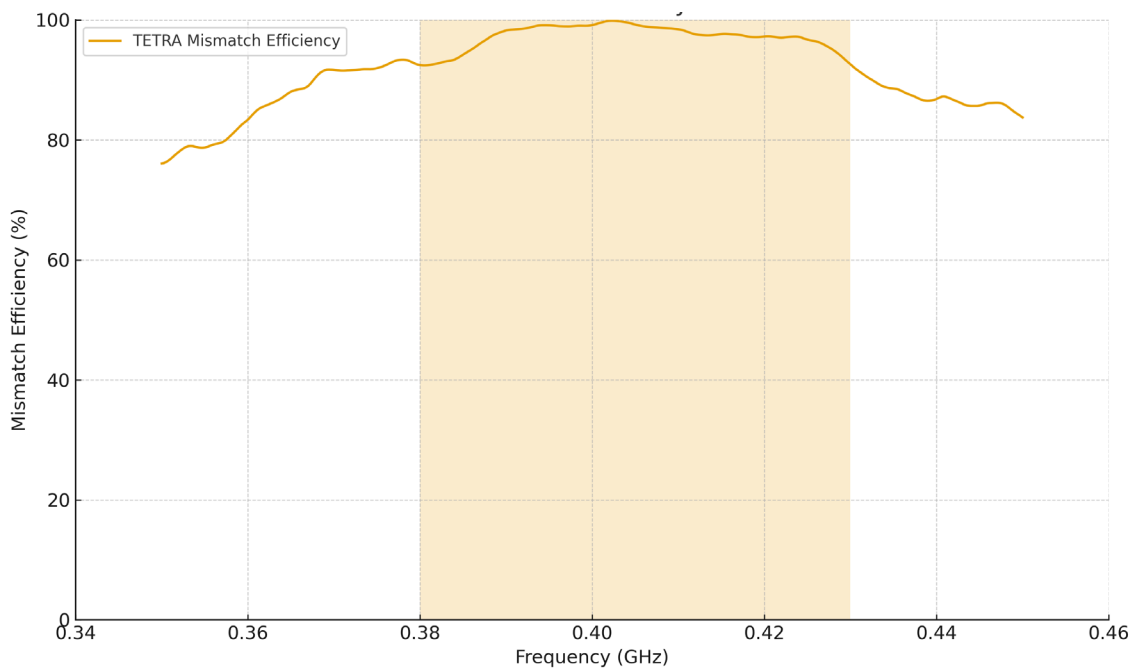
LTE to Wi-Fi Port Isolation



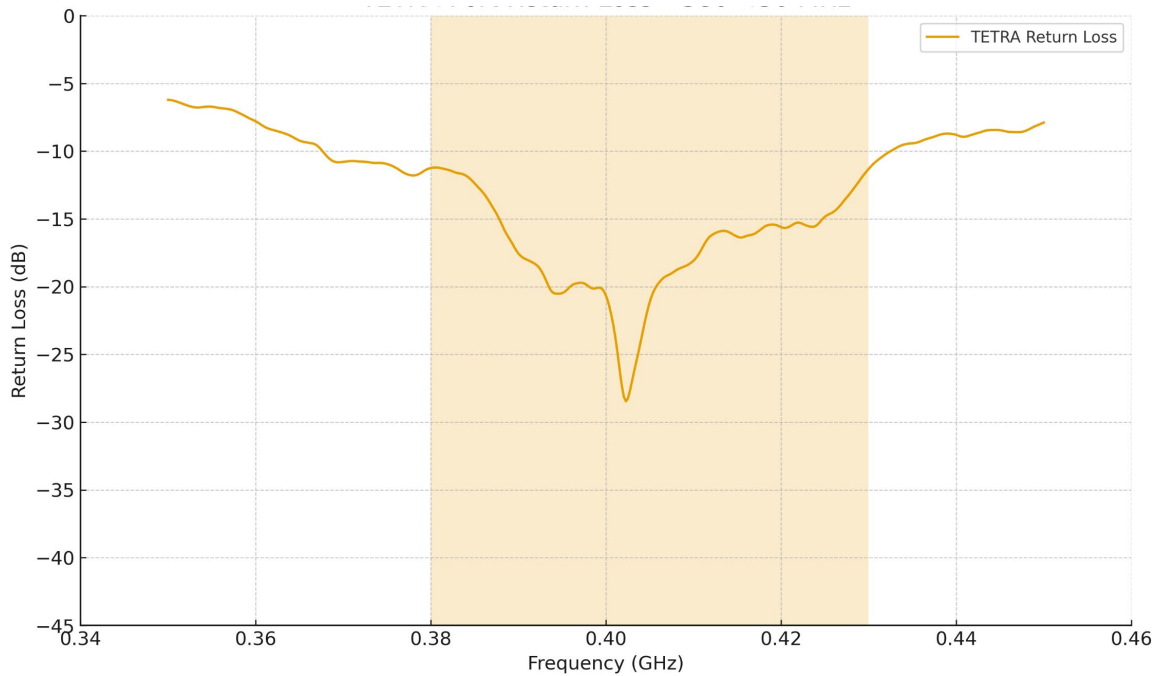
TETRA to LTE/Wi-Fi Isolation



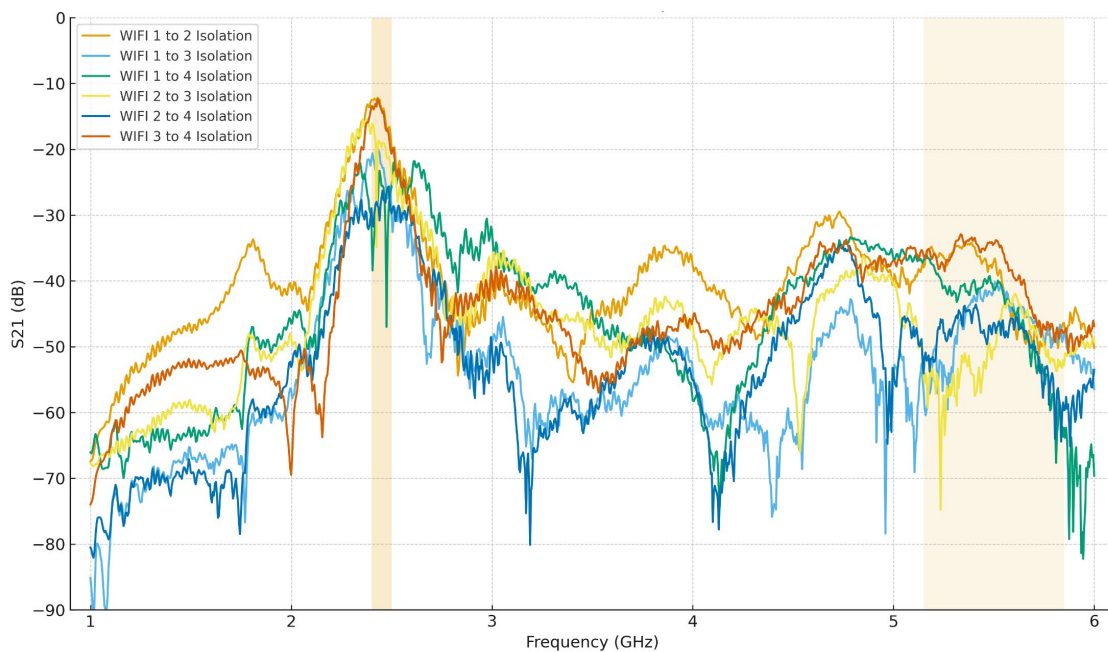
TETRA Port Mismatch Efficiency



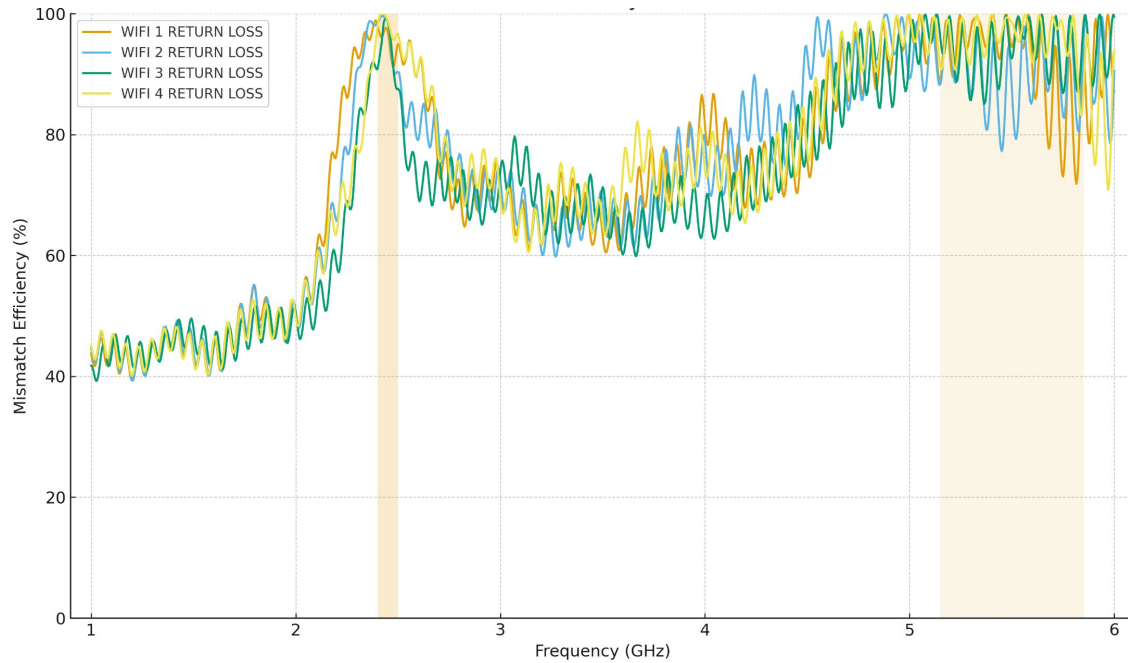
TETRA Port Return Loss



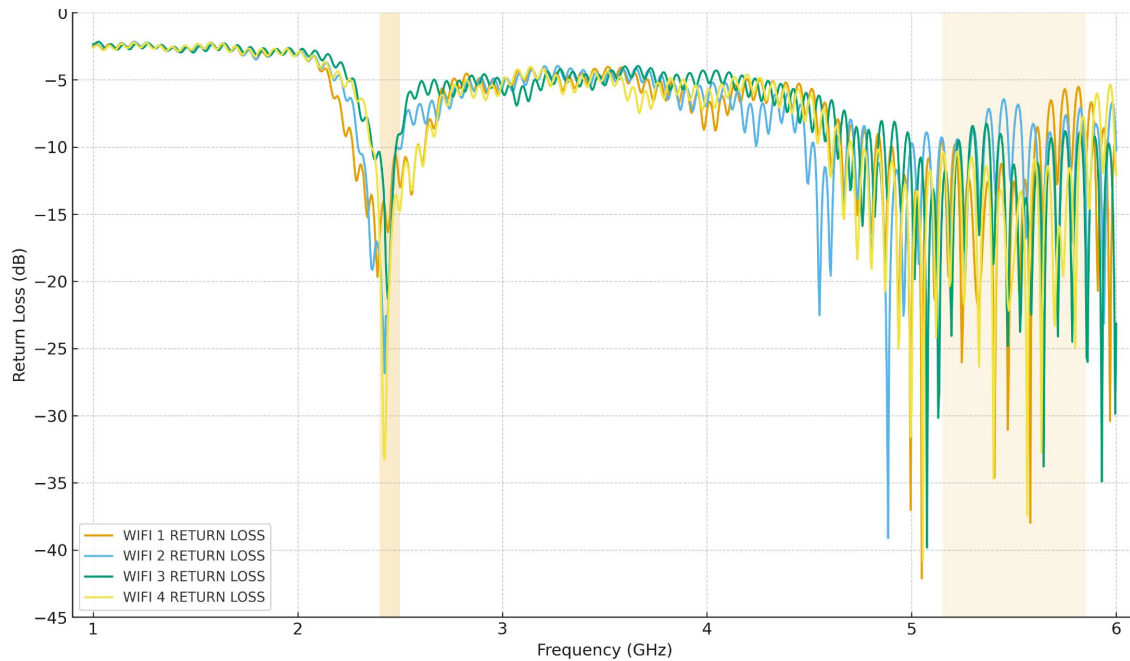
Wi-Fi Port Isolation



Wi-Fi Port Mismatch Efficiency



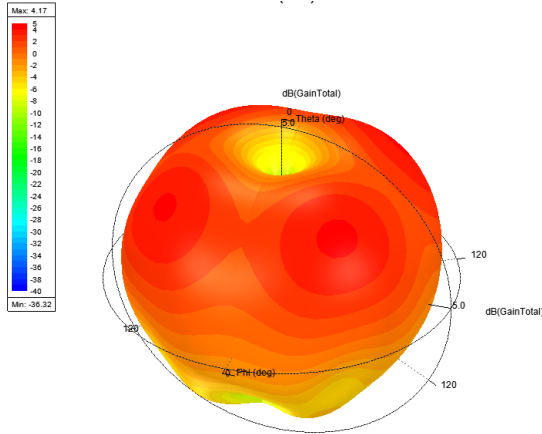
Wi-Fi Port Return Loss



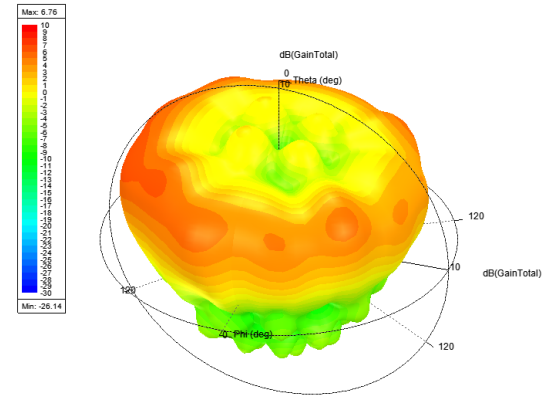
7000-324 'Mallard' 4-in-1 Antenna incl. TETRA

Antenna 3D Gain Plots

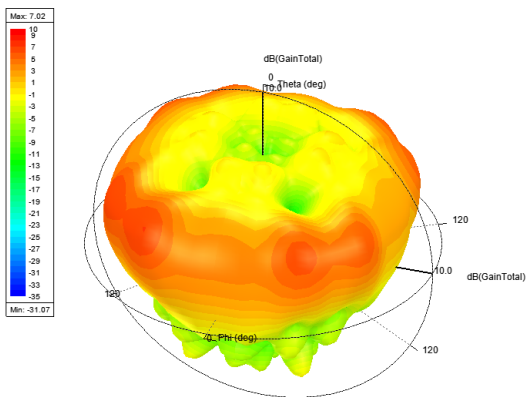
820MHz



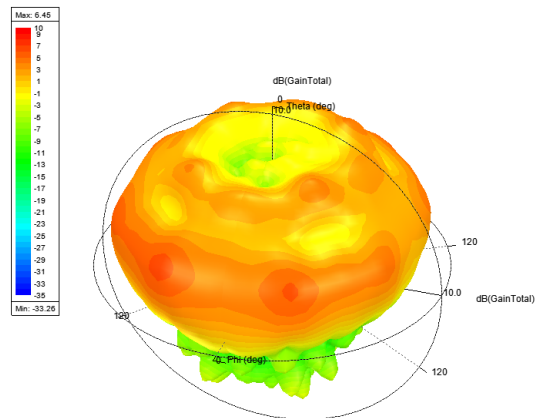
1820MHz



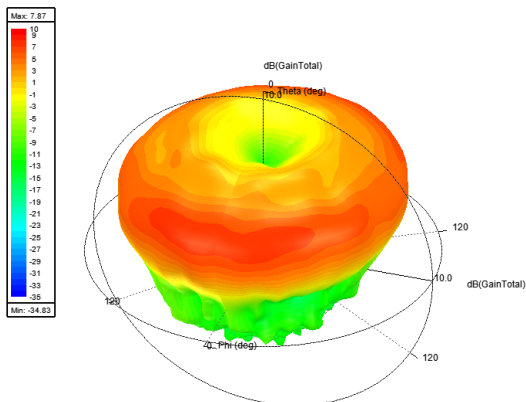
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

Sure Antennas. 6 Woodway Court, Thursby Rd, Bromborough, Merseyside CH62 3PR, United Kingdom
Schiphol Airport Tetra, Transpolis Park, Siriusdreef 17-27, 2132 WT Hoofddorp, Netherlands

T. +44 (0)151 363 7377 | E. sales@sure-antennas.com