



The Laird Connectivity vehicular three-port MIMO antenna covers the 698-960/1710-2700 MHz frequency range with an added global navigational antenna. Configured with two 3G/4G ports, and a third port with a GNSS navigational antenna, this product is ideal for global Vehicular IoT applications.

Connector options include, but not limited to, SMA male connectors for 3G/4G LTE and GNSS ports. The housing incorporates a low-profile, rugged design that meets IP67, EN61373 Shock & Vibration and EN50155 Temperature and Humidity standards. The antenna also features high impact, UV-resistant polycarbonate plastic radome available in black or white.

### APPLICATIONS

- FirstNet/Public Safety
- Passenger Fleet
- Commercial Vehicle Fleet
- Rail Transit

### ELECTRICAL SPECIFICATIONS

Antenna Model Number	VLT69273x2NJ							
Number of Ports	2x- 3G/4G LTE							
Operating Frequency, (MHz)	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
Peak Gain – Average* (dBi)	1.8	2.0	2.4	4.0	4.0	4.5	4.5	5.1
Peak Gain – Max* (dBi)	3.3	2.3	2.7	4.6	4.8	5.0	4.9	5.7
VSWR- Average**	1.3	1.3	1.5	1.4	1.3	1.3	1.2	1.3
VSWR- Max**	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Isolation** LTE1 to LTE2 (dB)	-14	-14	-14	-19	-24	-24	-24	-25
Nominal Impedance (Ohms)	50							
Max Power - Ambient 25°C/77°F (W)	50							
Polarization	Vertical Linear							
Azimuth Beamwidth	360°- Omnidirectional							

\* Measured on 1 ft (30.48 cm) diameter ground plane

\*\* Measured on 1 ft (30.48 cm) diameter ground plane and 17 ft (518 cm)

- Antenna specification is subjected to change according to the ground plane size.

### MECHANICAL SPECIFICATIONS

Dimensions – diameter x height – mm (in.)	132 x 75 (5.20 x 2.9)
Weight – kg (lbs)	0.75 (1.65)
Cable Type	LMR195M
Mounting	P- Mount
Radome and Base Plate Material	PC, UL94 - V0 Rating, UV Stable

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-30 to +70 (-22 to +158)
Storage Temperature – °C (°F)	-40 to +85 (-40 to +185)
Shock and Vibration Tests	EN61373 Compliant
Temperature and Humidity Tests	EN50155 Compliant
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

### CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR LTE PORTS	COLOR	NAVIGATION
VLT69273B2NJ-518A	5.18m (17ft)	SMA Male	Black	GNSS
VLT69273W2NJ-518A	5.18m (17ft)	SMA Male	White	GNSS

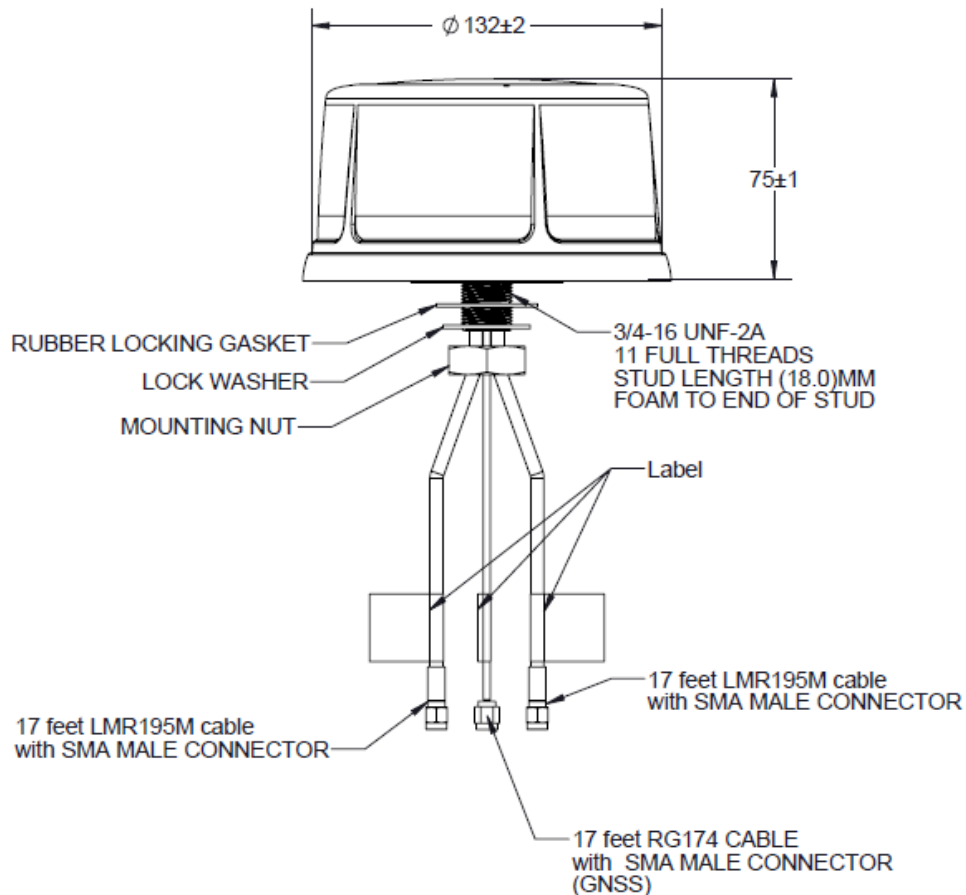
**GNSS ANTENNA SPECIFICATIONS:**

Model Number	VLT69273x2NJ		
Number of Ports	1x- GNSS		
Frequency Band (MHz)	Beidou	GPS	GLONASS
Frequency of Operation (MHz)	1561.098 ± 2.046	1.575.42 ± 1.023	1602.0 ± 5.0
Amplifier Gain (dB)	28 dB ± 3		
Nominal Impedance (Ohms)	50 Ω		
Output VSWR	< 2:1		
DC Voltage	2.5 - 7 Vdc		
Current Consumption, mA	8.5 ± 3 ( at 3.0V)		
Input Max Power, dBm	-10		
Out of Band Rejection, dBc	> 80 (698- 960 MHz)	> 80 (1428- 2700 MHz)	> 70 (4900- 5800 MHz)
Working/Storage Temperature	-40°C - +85°C (-40°F - +185°F)		
Connector	SMA-Male		
Cable – Exposed Length	RG174-518.2 cm (17 ft.)		

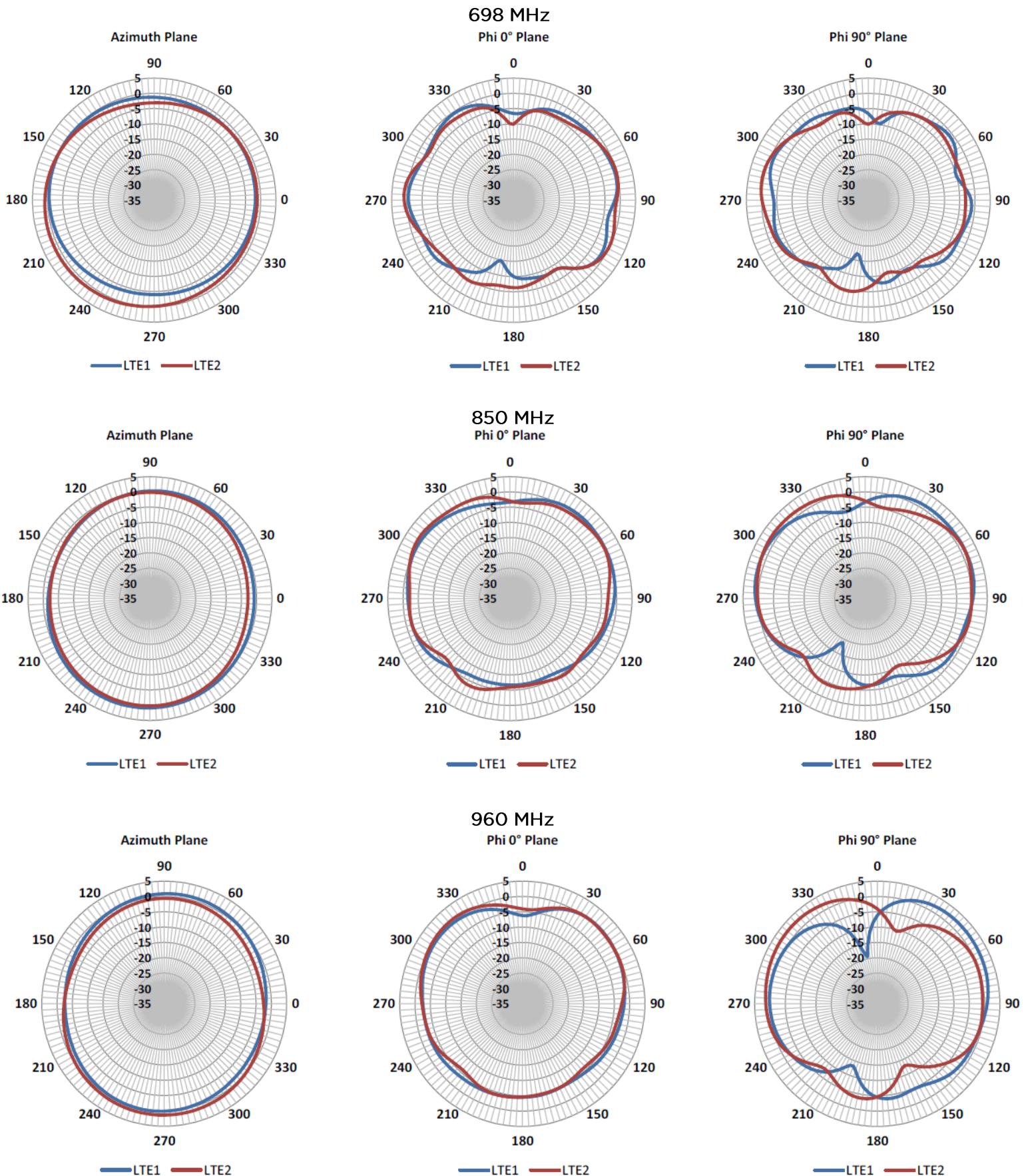
**PACKAGING INFORMATION**

PACKAGE DIMENSIONS	CARTON	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	4	8	192	240
Height- mm (in.)	305 (12.0)	305 (12.0)	1363 (53.66)	1668 (65.67)
Length- mm (in.)	525 (20.7)	525 (20.7)	1200 (47.24)	1200 (47.24)
Width- mm (in.)	132 (5.22)	265 (10.4)	800 (31.5)	800 (31.5)
Shipping Weight- kg (lb.)	4.0 (8.7)	6.9 (15)	176 (388)	218 (481)

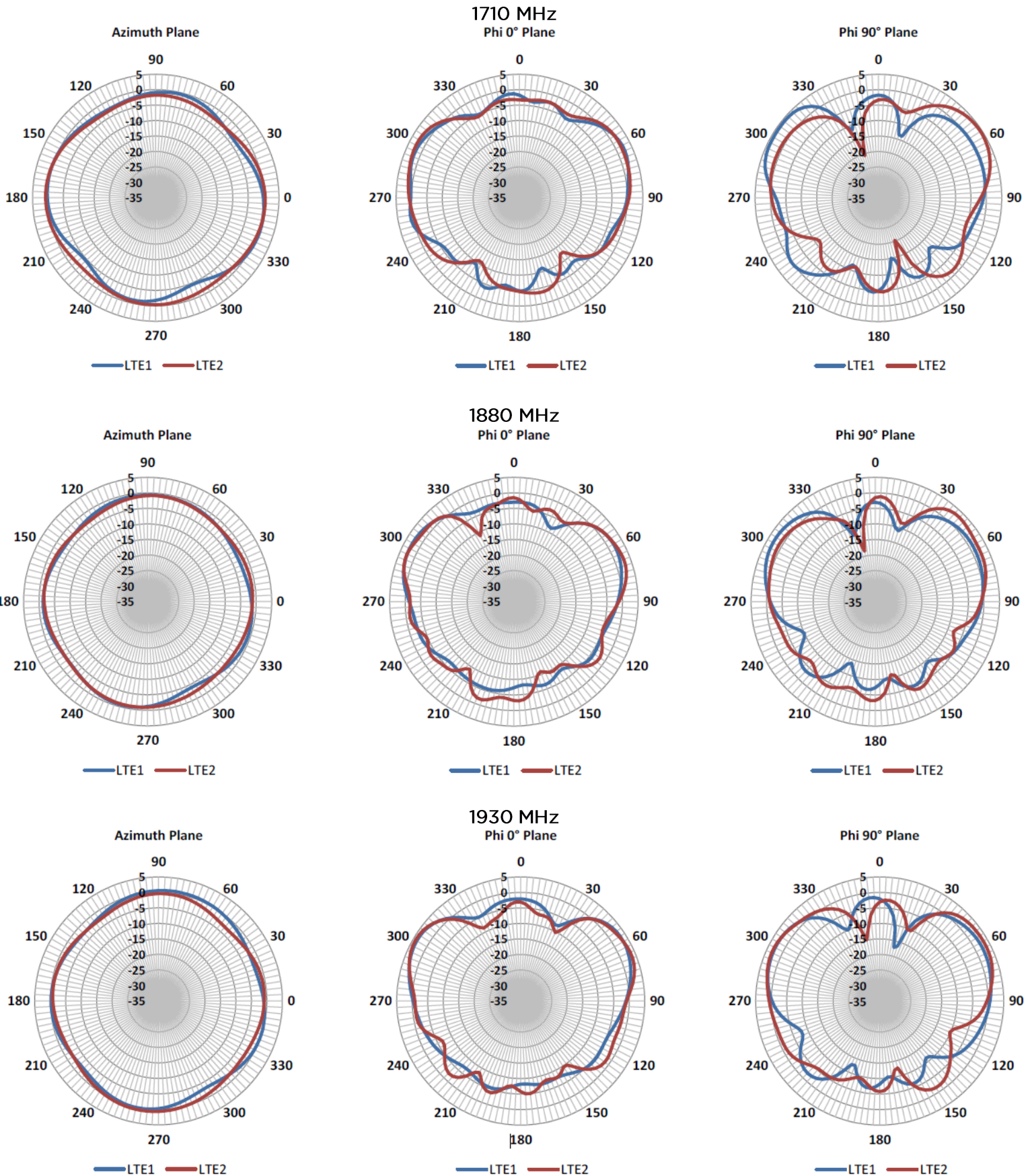
**MECHANICAL DRAWING**



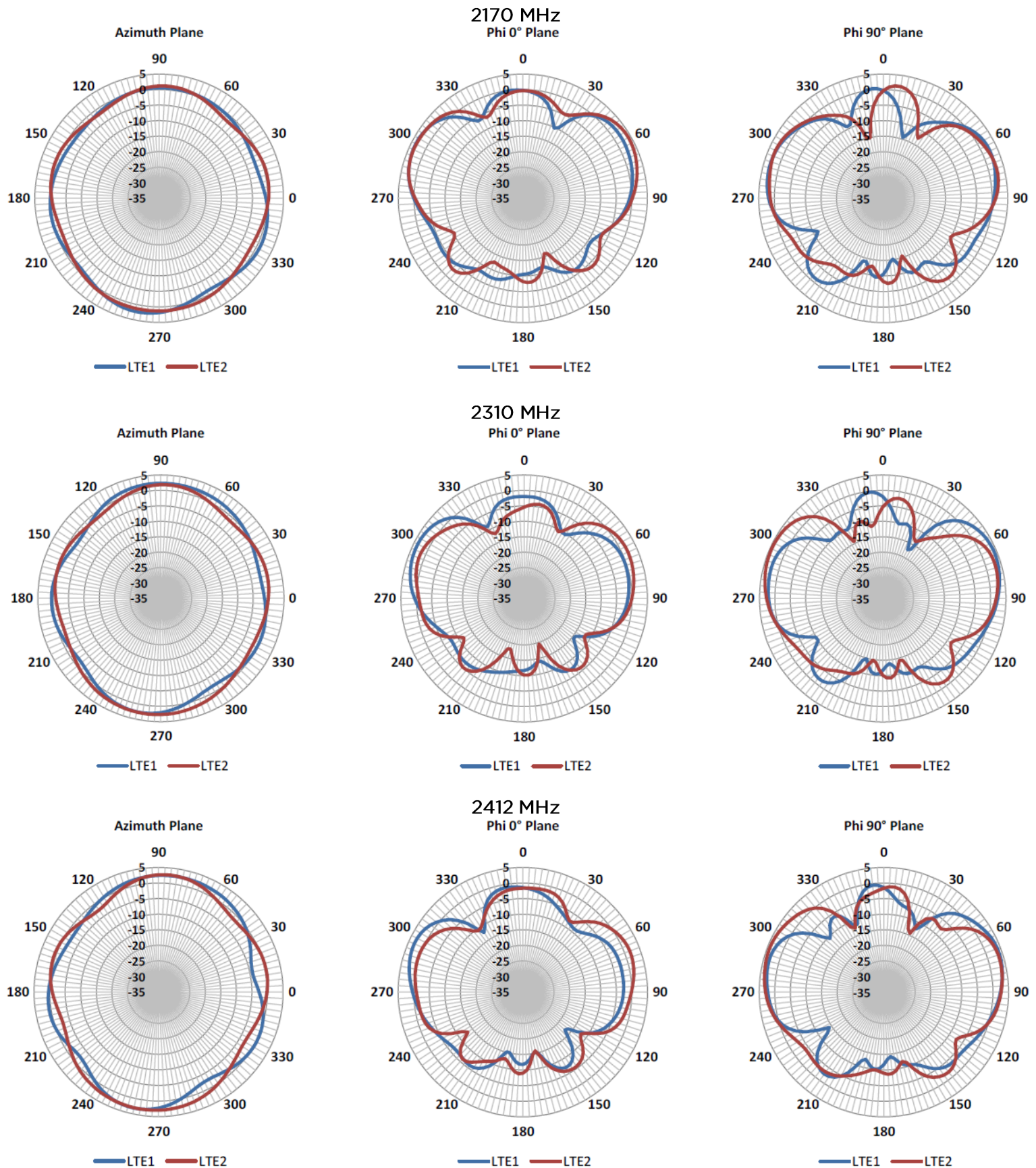
RADIATION PATTERNS- LTE/CELL PORTS



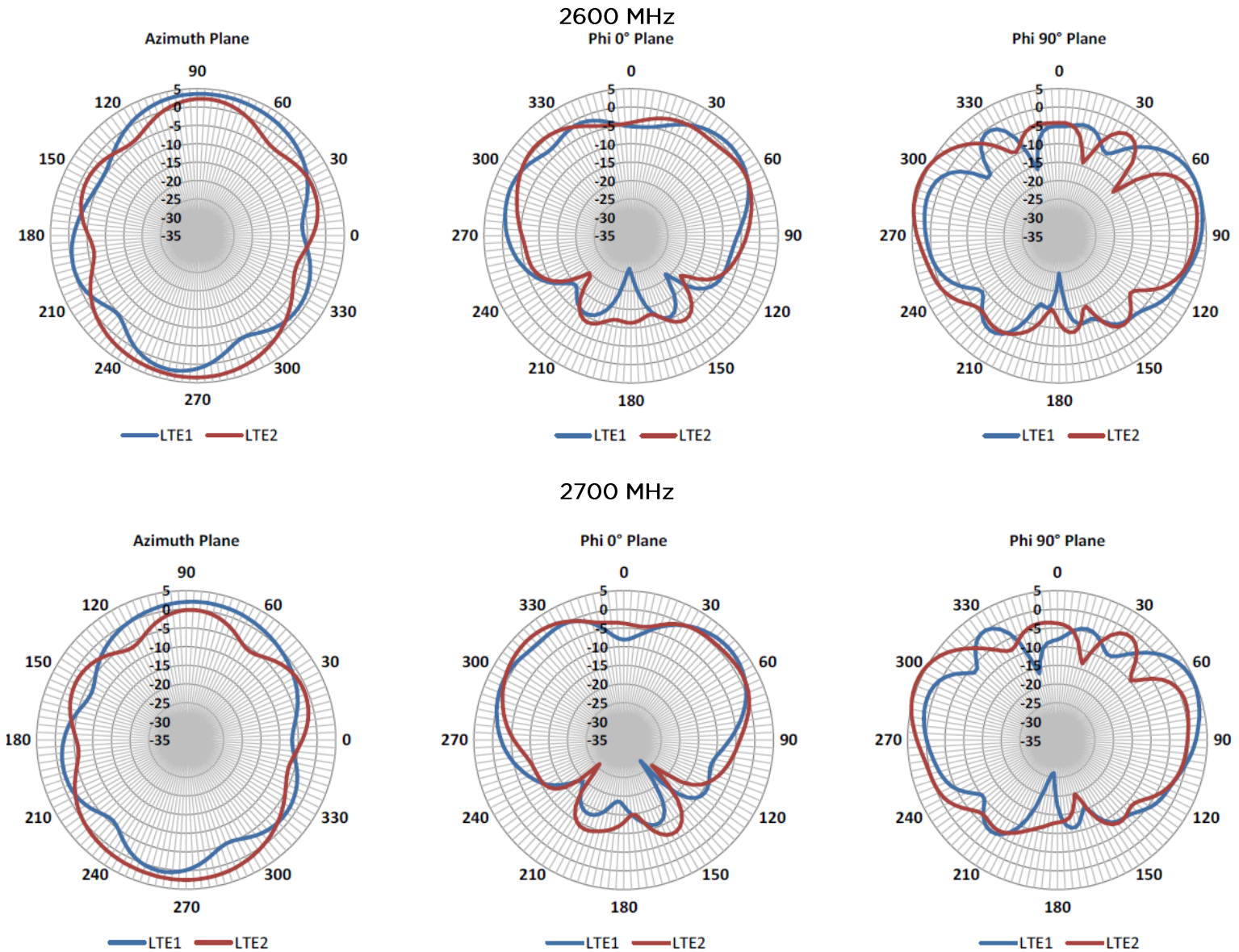
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