



LTE/GNSS ANTENNA

Antenna LTE/GNSS
Screw Mount, 2x RG316,
SMA(m)

AO-AKOM-57S

SECTRON company offers a wide portfolio of LTE antennas with various versions differing in shape, level of gain and manner of attachment. SECTRON guarantees a compatible connection between an antenna and all antenna adaptors produced by SECTRON.



BENEFITS

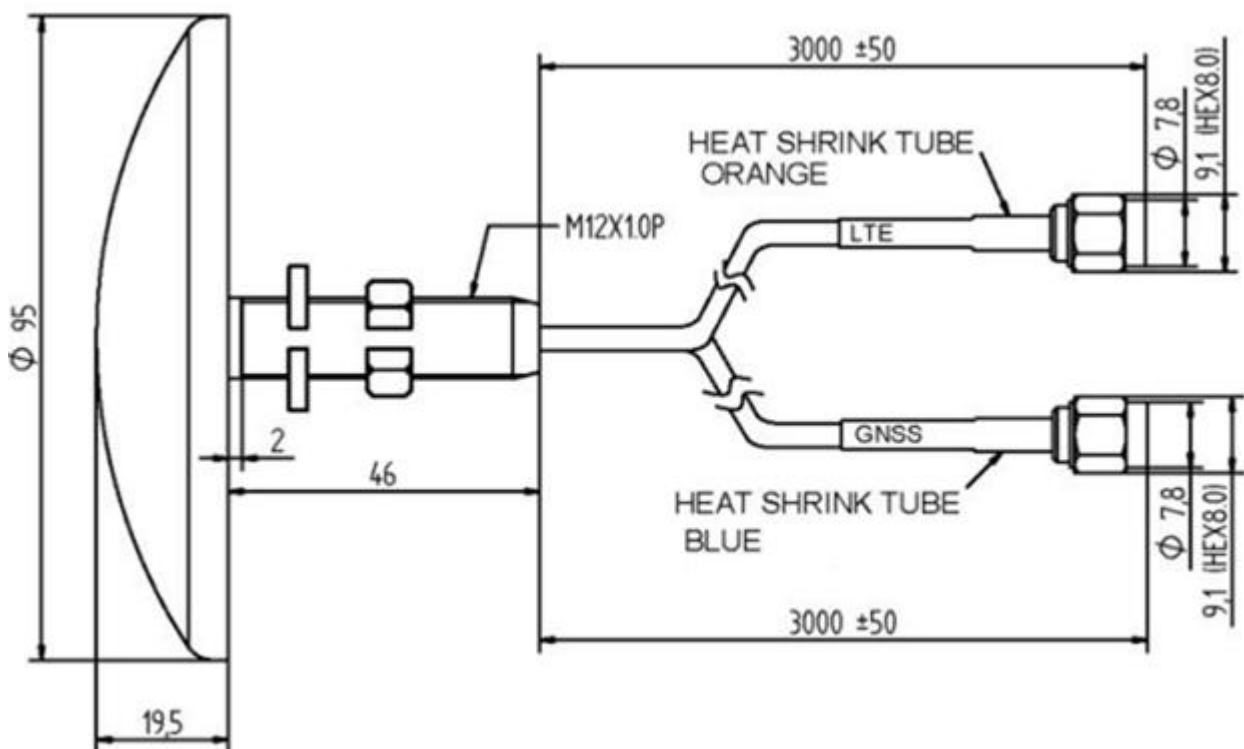
- Easy installation
- Durable

FEATURES

AO-AKOM-57S

Technology	LTE/GNSS
Frequency bands	690-2700 ,1575.42/1602 MHz
Bandwidth	-
Gain	3/23.5 dBi
LNA gain	22 dB
VSWR	<1.5:1 / <3.5:1
Impedance	50 Ohm
Directivity	Omnidirectional
Beam angle	H 360° V 30°
Polarization	Linear
Maximum input power	10 W
Power voltage	2.5 – 4 V
Dimensions	Ø95 x 19.5 mm
Weight	-
Operating temperature	-20 to +65 °C
Execution	External
Method of attachment	Screw mount
Cable type	RG316U
The cable length	2 x 3 m
Connector type	2 x SMA(m)
Material	TPR construction, road-ready, crush-resistant
IP rating	IP67

DRAWING

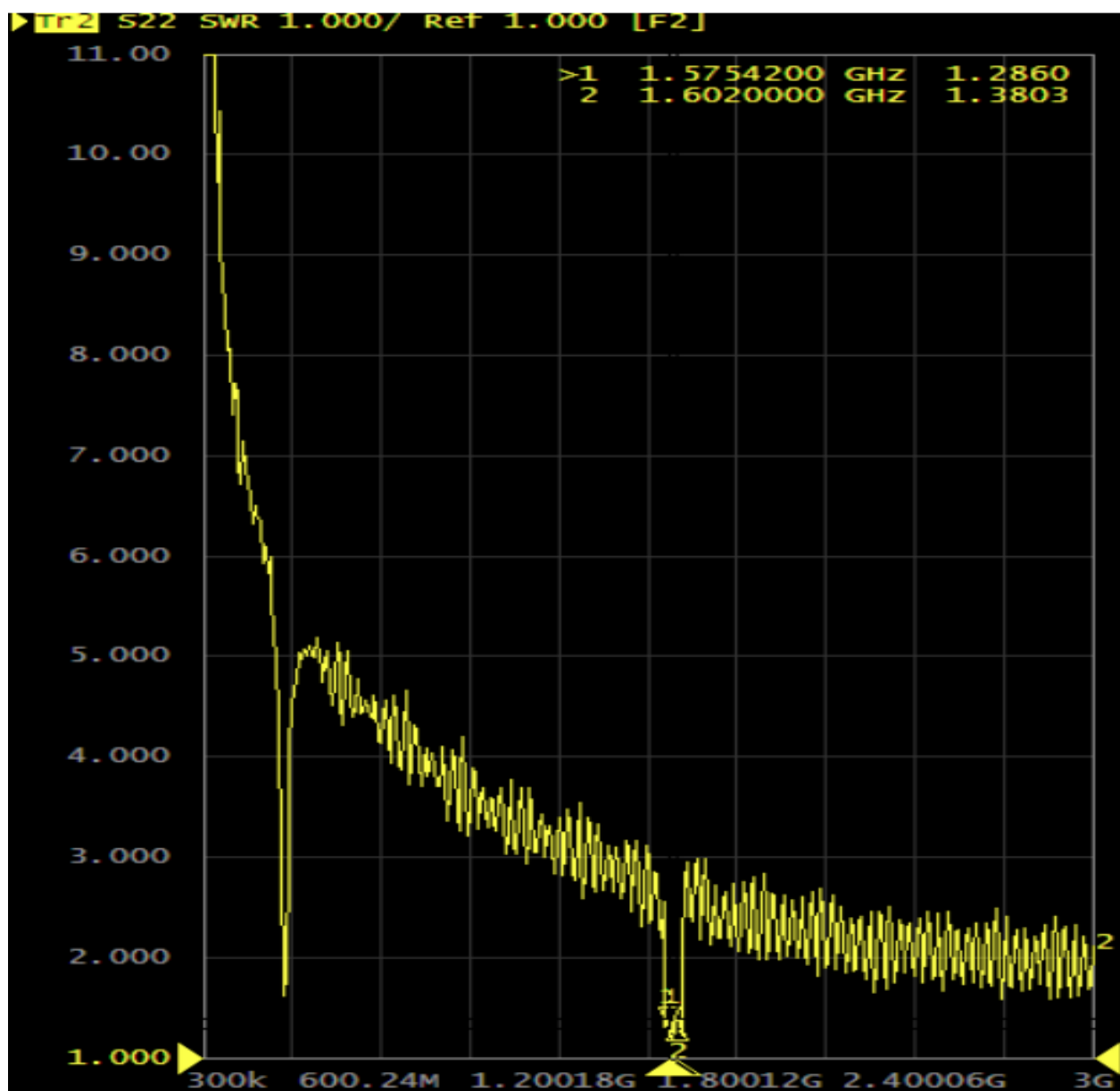


GPS LNA/ FILTER PARAMETERS

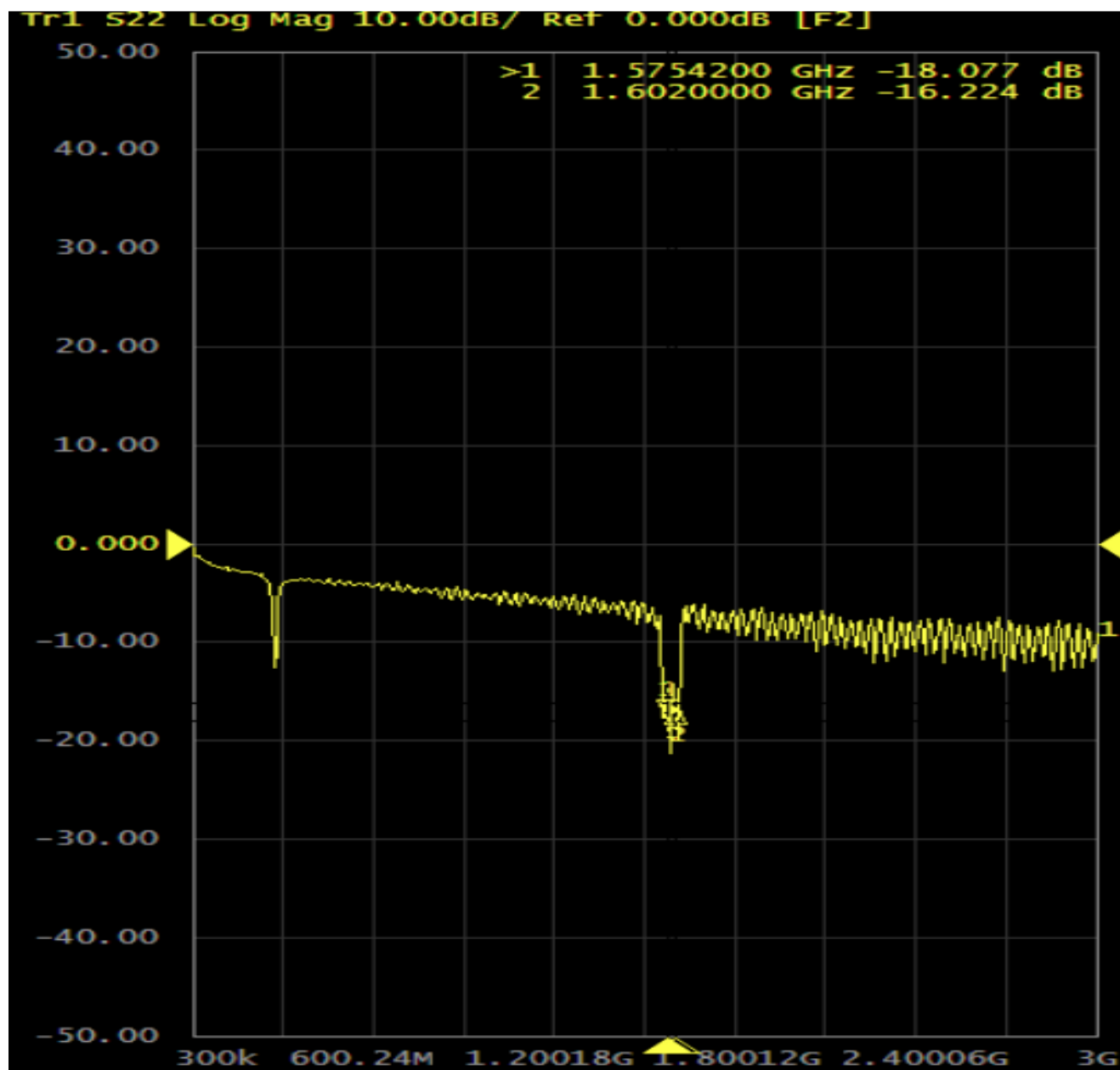
LNA Gain	22±3 dB
Noise Figure	2.4 dB

MEASUREMENT

VSWR – Voltage standing wave ratio [-] GNSS

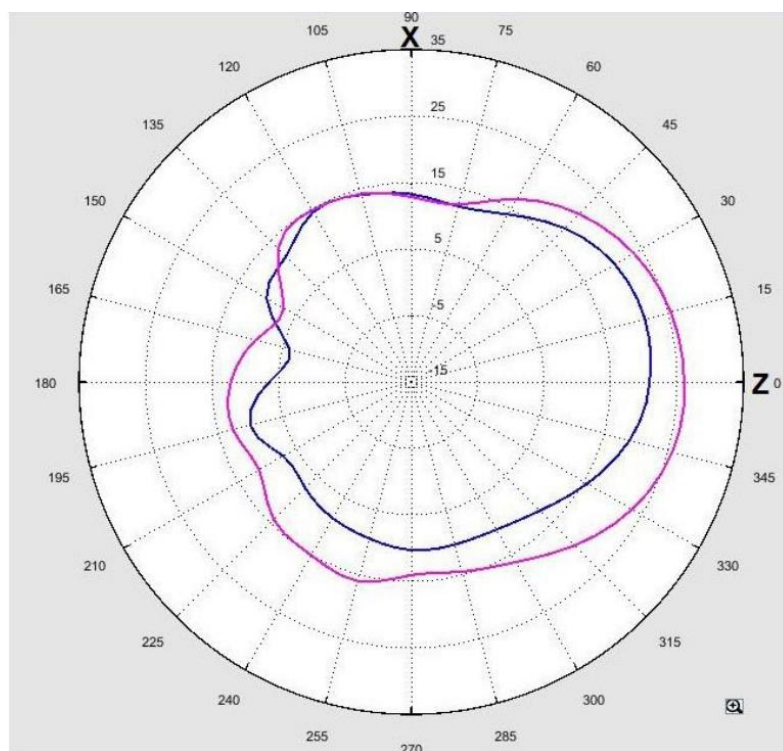


Return loss [dB] GNSS

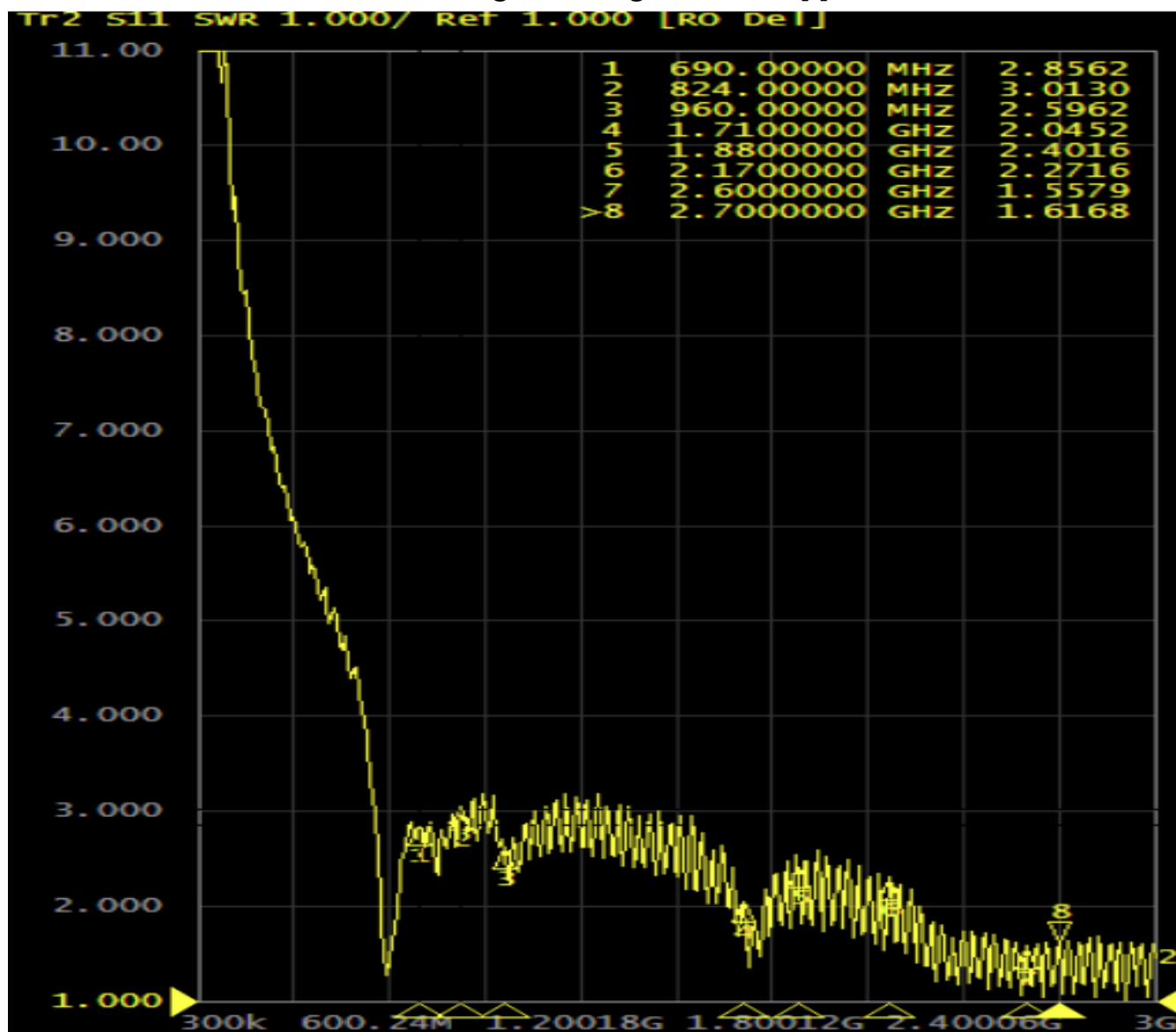


Frequency (MHz)	Return Loss (dB)	VSWR	Gain (dB)
1575.42	-18.07	1.28	21.61
1602	-16.22	1.38	27.09

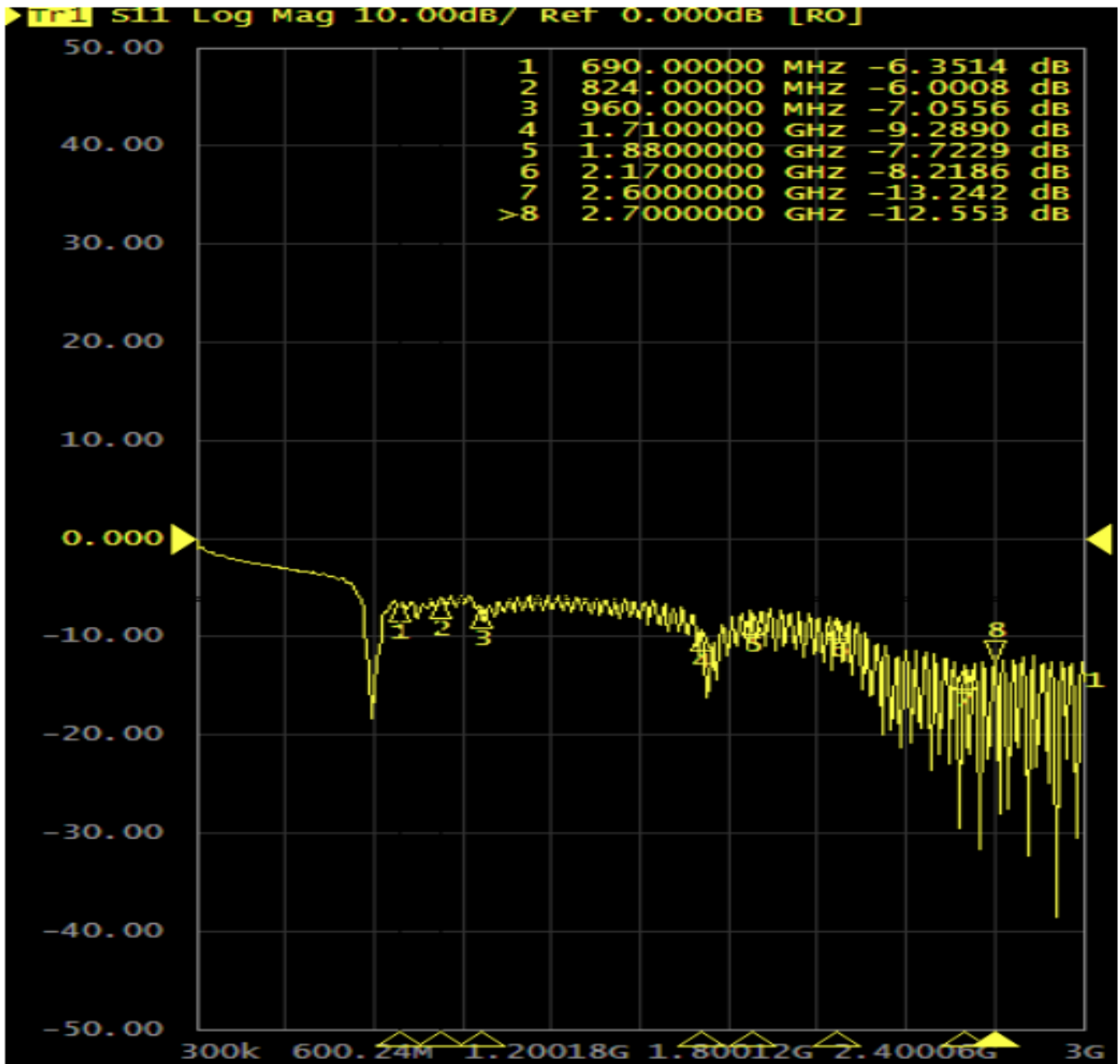
Freq. / Chan.	Color
1.57542GHz	Blue
1.602GHz	Magenta



VSWR – Voltage standing wave ratio [-] LTE



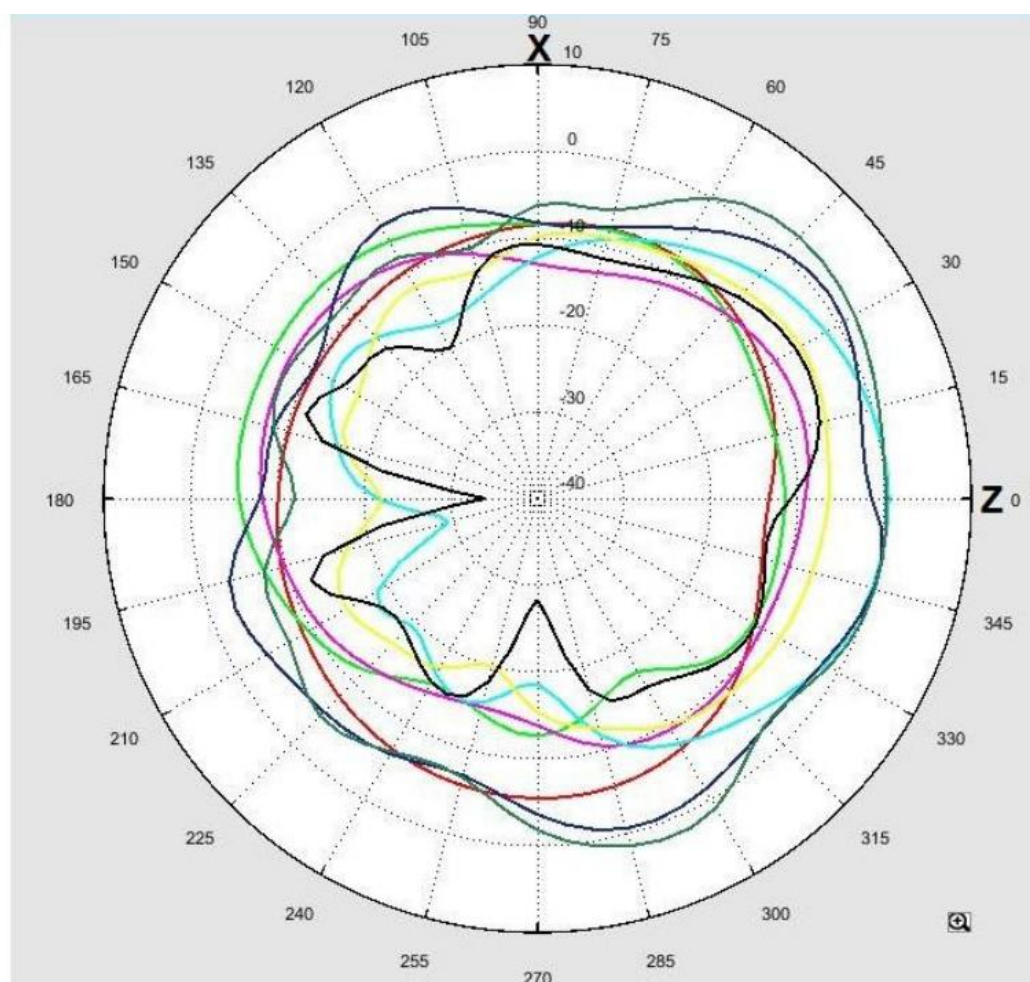
Return loss [dB] LTE



MEASUREMENT

Frequency (MHz)	Return Loss (dB)	VSWR	Efficiency (%)	Gain (dB)
690	-6.35	2.85	16.56	-5.45
824	-6.00	3.01	10.19	-4.02
960	-7.05	2.59	8.99	-4.85
1710	-9.28	2.04	19.72	1.18
1880	-7.72	2.40	10.52	-2.7
2170	-8.21	2.27	10.14	-1.88
2600	-13.24	1.55	40.27	1.82
2700	-12.55	1.61	46.77	2.8

Freq. / Chan.	Color
690MHz	Red
824MHz	Green
960MHz	Magenta
1.71GHz	Cyan
1.88GHz	Yellow
2.17GHz	Black
2.6GHz	Dark Blue
2.7GHz	Dark Green



CONTACTS

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