

# ***Vivint Magellan LTE Antenna Specifications***

2023.03.23



*Smarter Solutions for a Smarter Future*

# Agenda

- Sample Picture
- Antenna specifications
  - Antenna Information
  - Antenna Peak Gain
- Antenna Outline
- Radiation Pattern



# Antenna Specifications

- Antenna Information :

Antenna Number	Type	Polarization	Brand	Model	Cable length	Connector type
LTE Main	PIFA	Linear	WNC	48XKAB20.0GAFHYE	N/A	none
LTE AUX	PIFA	Linear	WNC	57XKAB15.0A3	205	IPEX-MHF

- Main Antenna Peak Gain (Tx):

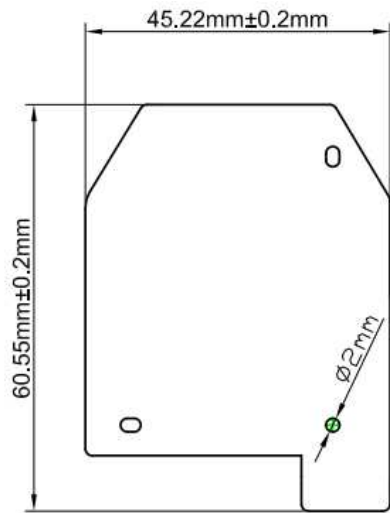
LTE	Band 2	Band 4	Band 5	Band 12	Band 13
Peak Gain (dBi)	1.23	0.21	0.41	0	0.22

- AUX Antenna Peak Gain (Rx):

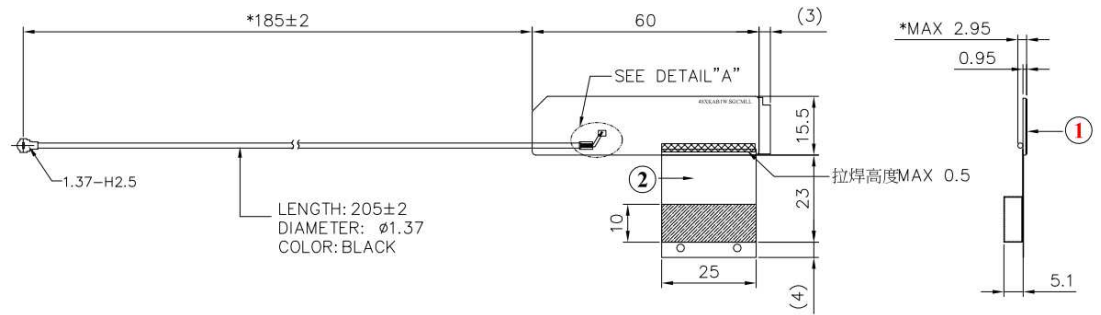
LTE	Band 2	Band 4	Band 5	Band 12	Band 13
Peak Gain (dBi)	1.12	0.8	-1.14	-3.42	-2.04



# Antenna Outline



LTE Main Antenna FPC outline

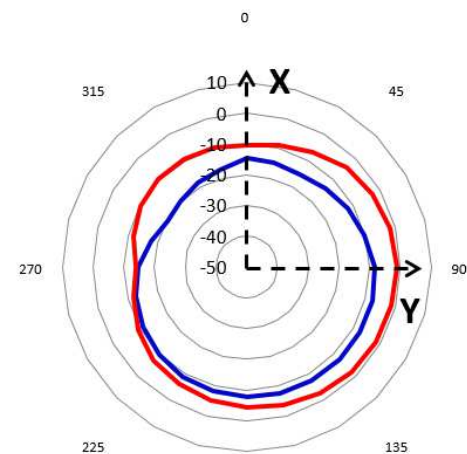
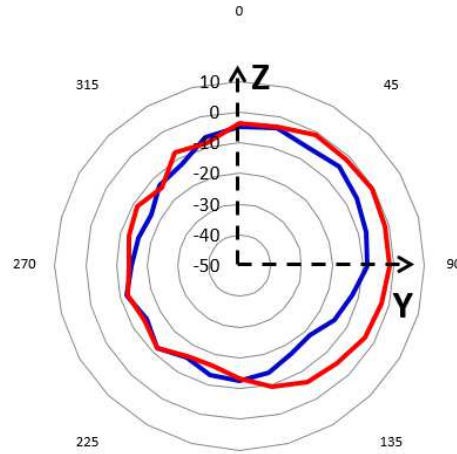
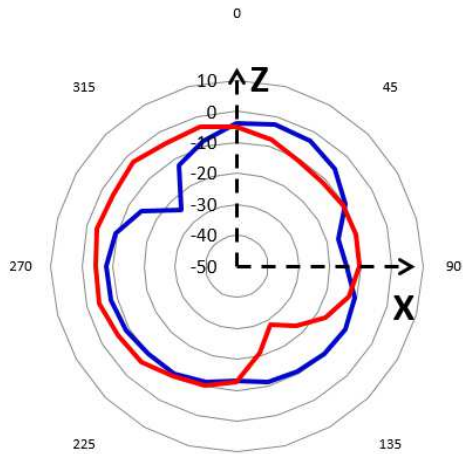


LTE AUX Antenna PCB outline



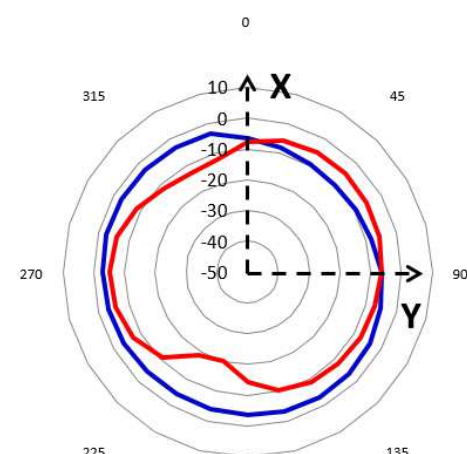
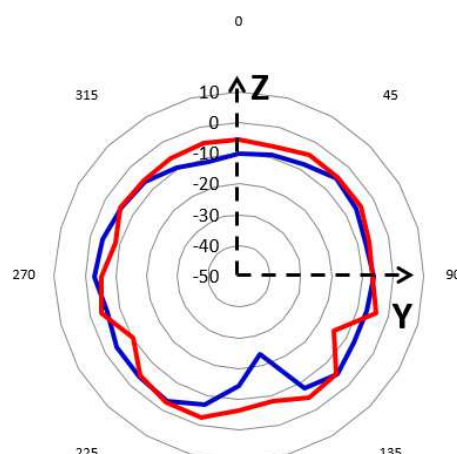
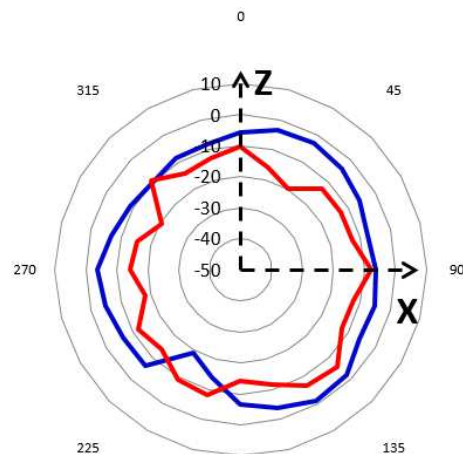
# Antenna Radiation Pattern – LTE antenna\_699 MHz

LTE Main Antenna



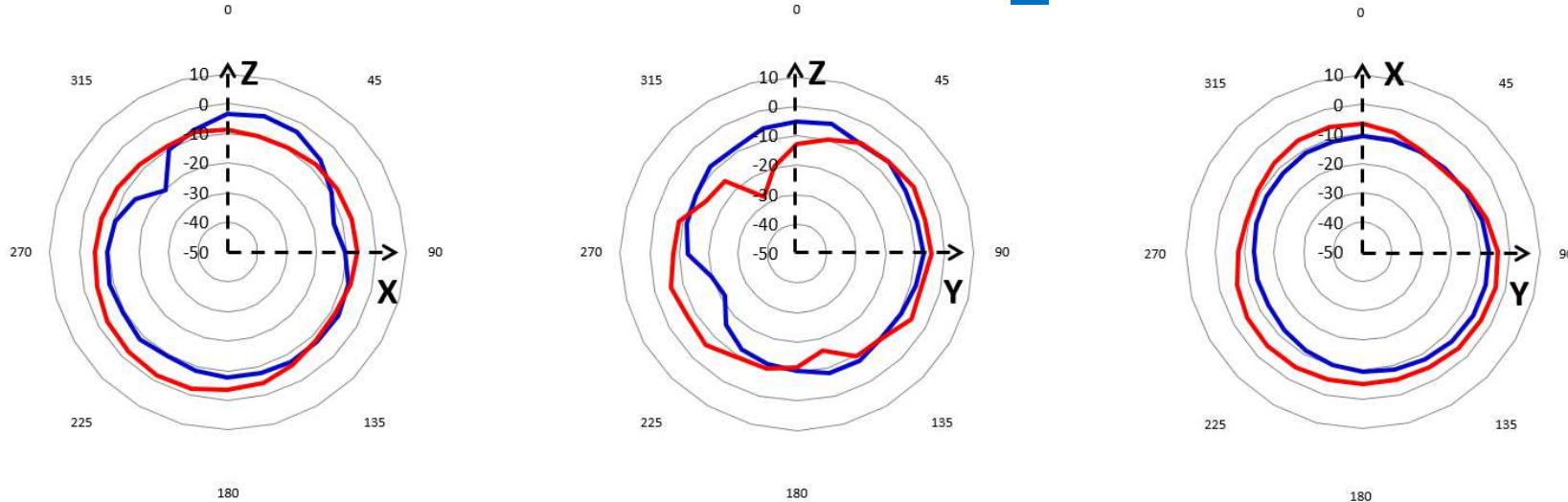
— V-Pol.  
— H-Pol.

LTE AUX Antenna



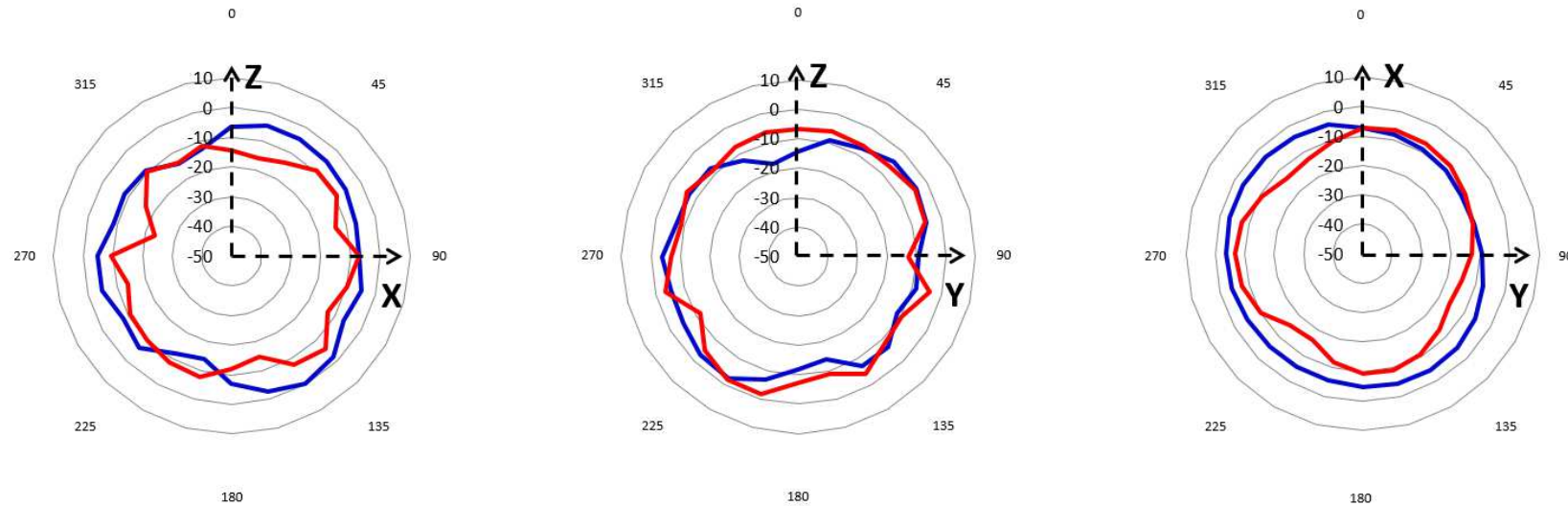
# Antenna Radiation Pattern – LTE antenna\_746 MHz

LTE Main Antenna



— V-Pol.  
— H-Pol.

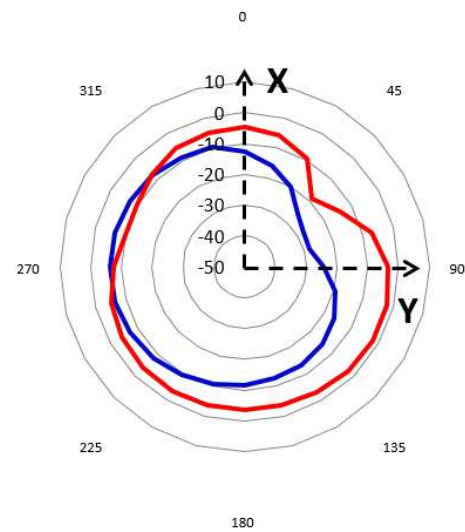
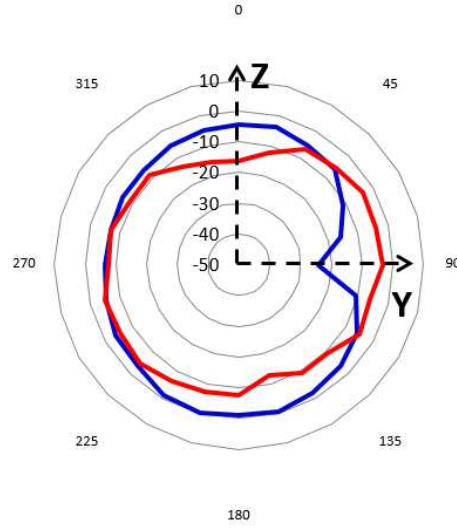
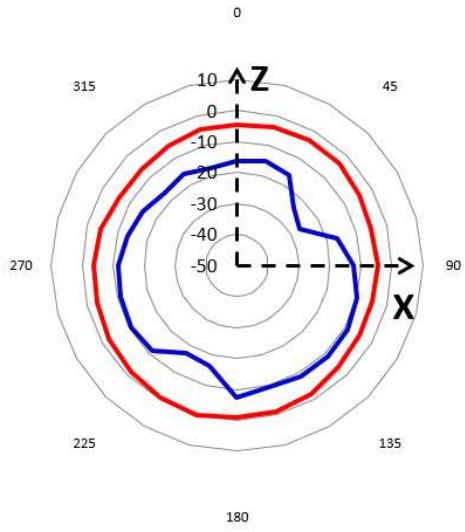
LTE AUX Antenna





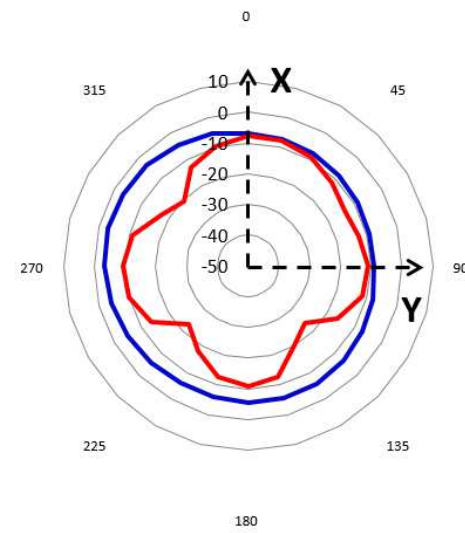
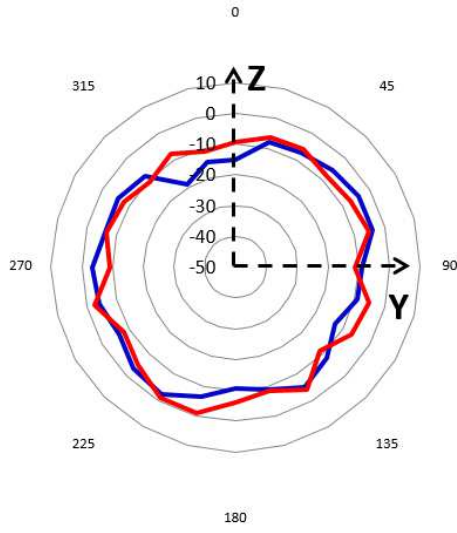
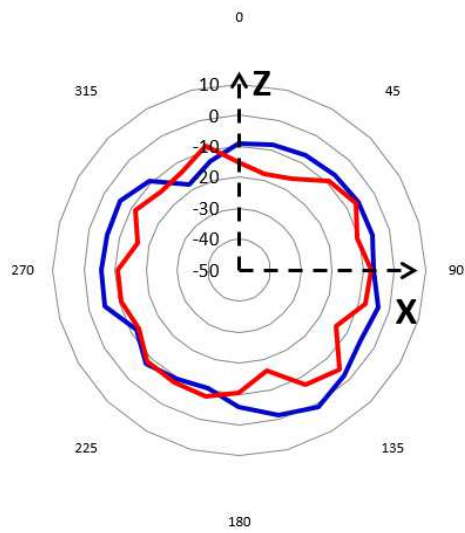
# Antenna Radiation Pattern – LTE antenna\_787 MHz

LTE Main Antenna



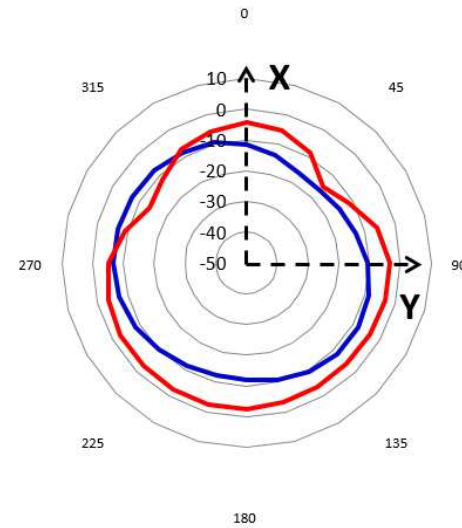
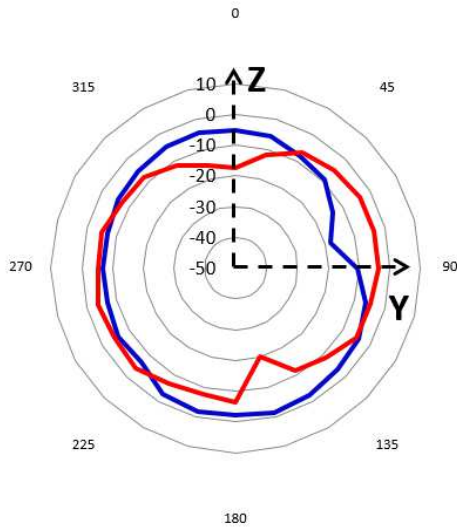
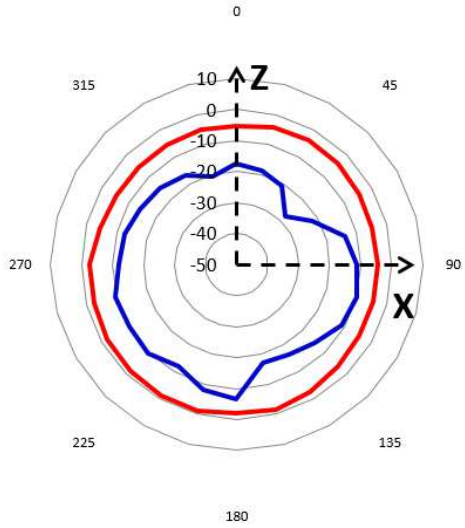
— V-Pol.  
— H-Pol.

LTE AUX Antenna



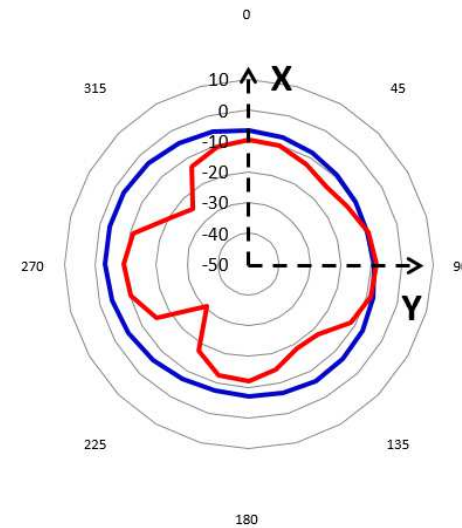
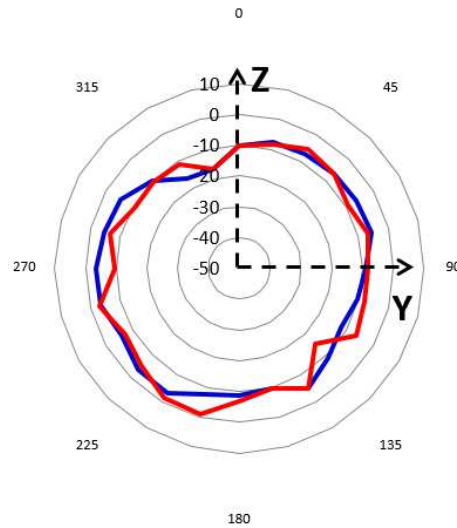
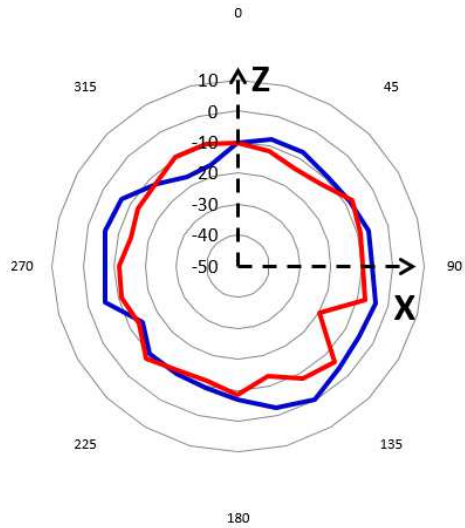
# Antenna Radiation Pattern – LTE antenna\_824 MHz

LTE Main Antenna



— V-Pol.  
— H-Pol.

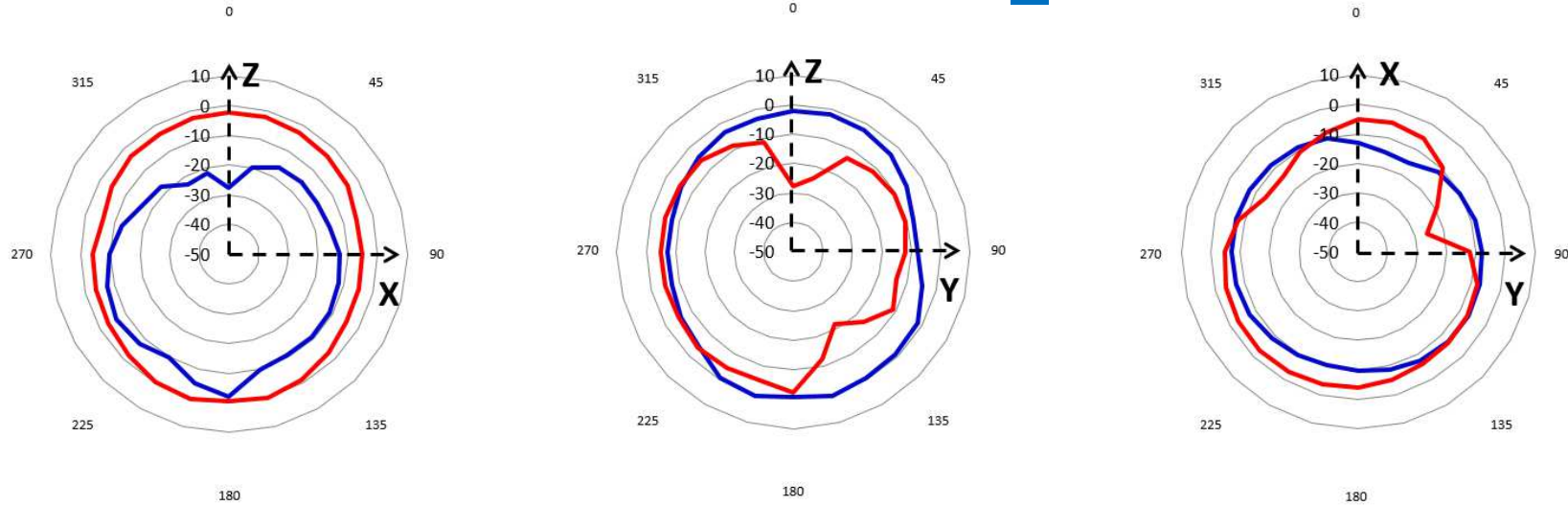
LTE AUX Antenna





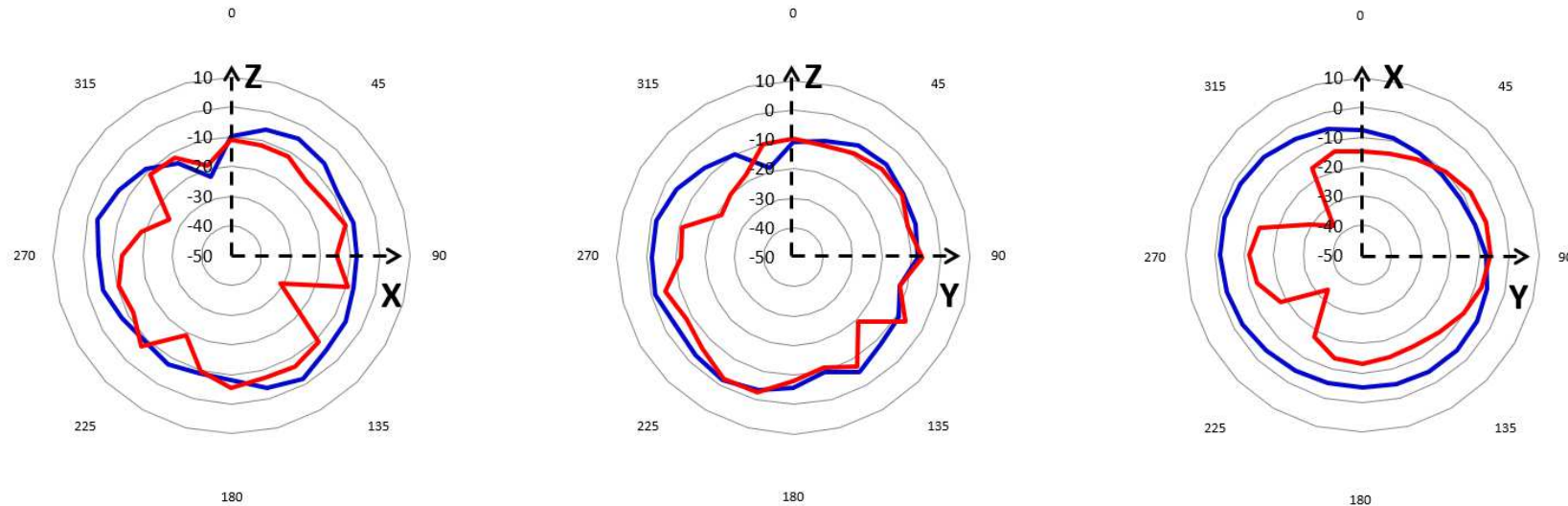
# Antenna Radiation Pattern – LTE antenna\_894 MHz

LTE Main Antenna



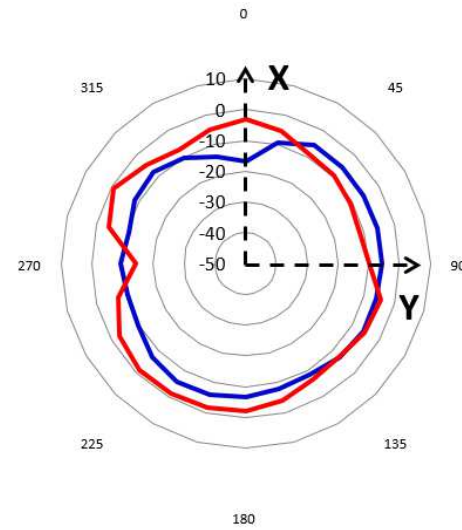
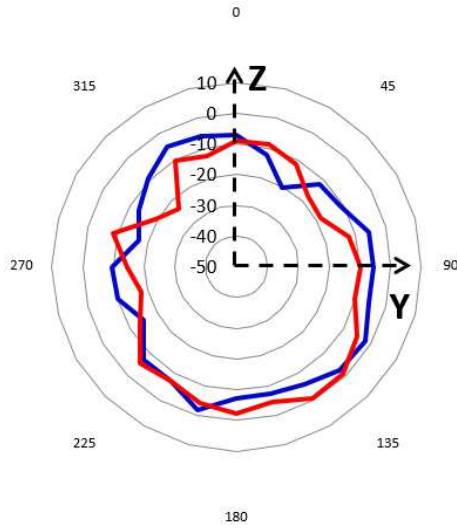
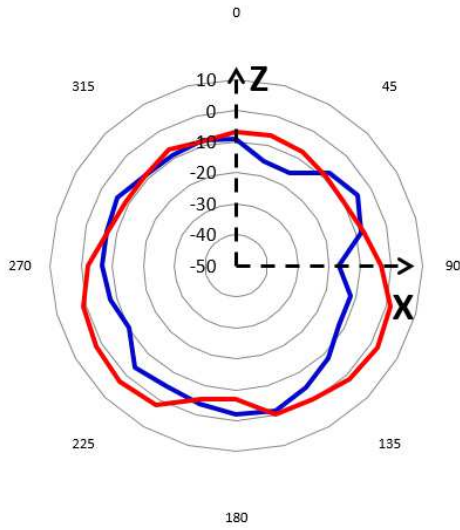
— V-Pol.  
— H-Pol.

LTE AUX Antenna



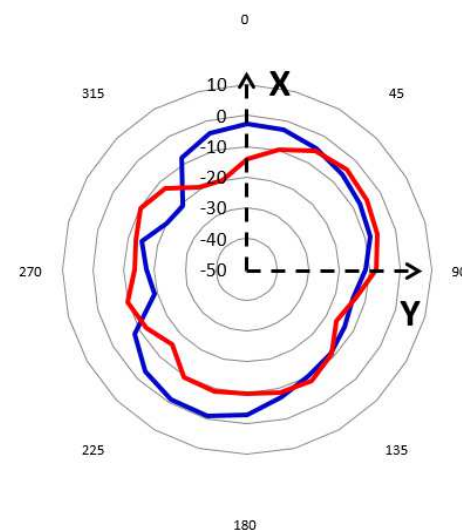
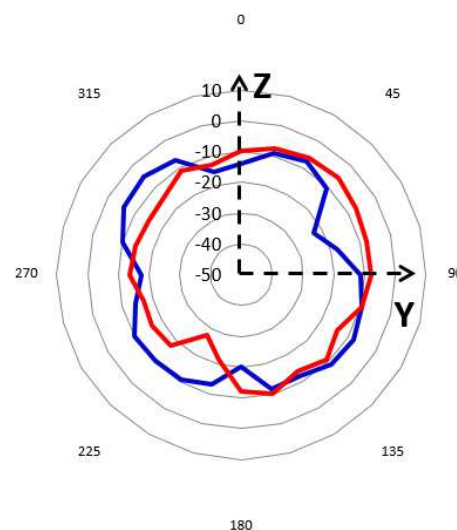
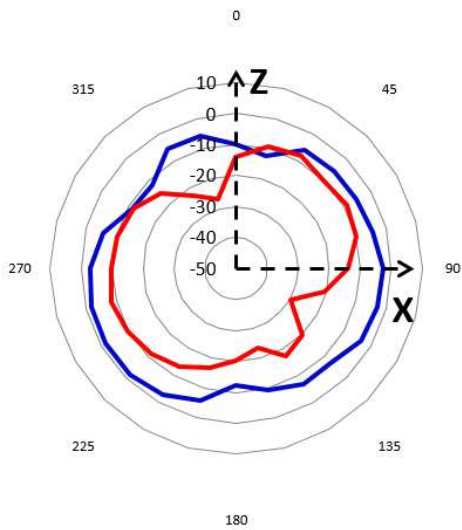
# Antenna Radiation Pattern – LTE antenna\_1710 MHz

LTE Main Antenna



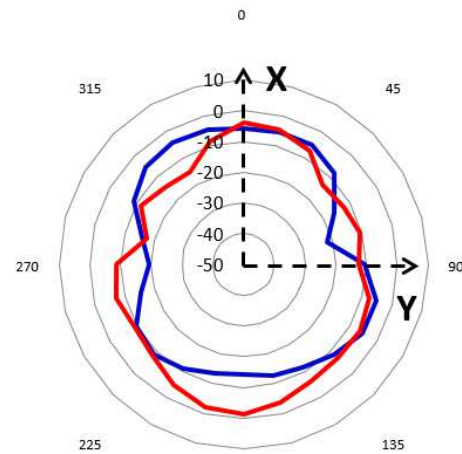
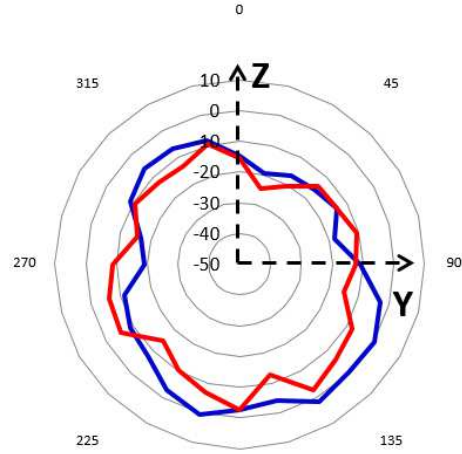
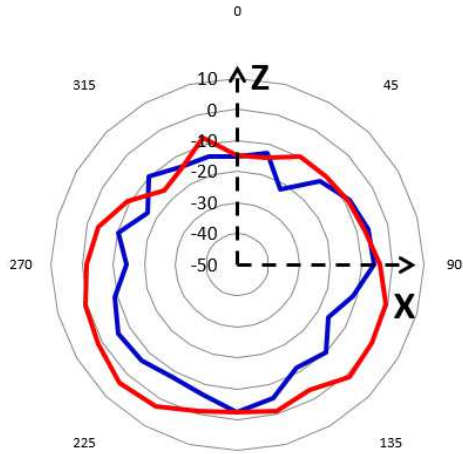
— V-Pol.  
— H-Pol.

LTE AUX Antenna



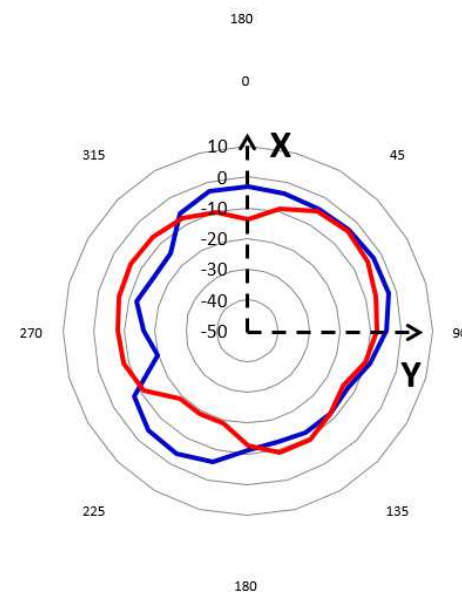
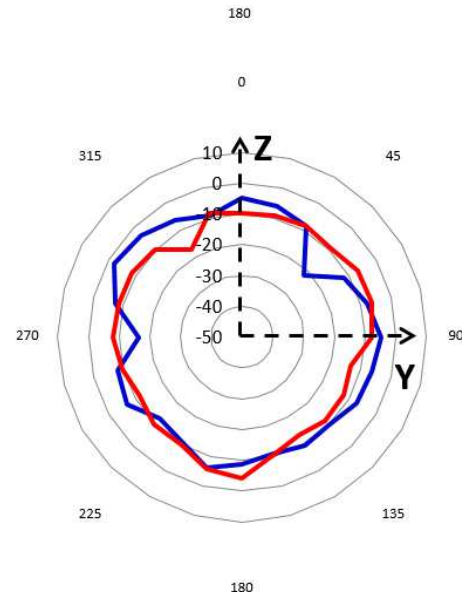
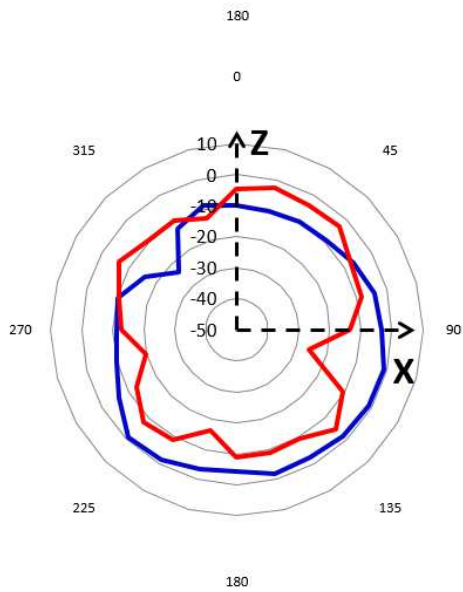
# Antenna Radiation Pattern – LTE antenna\_1850 MHz

LTE Main Antenna



— V-Pol.  
— H-Pol.

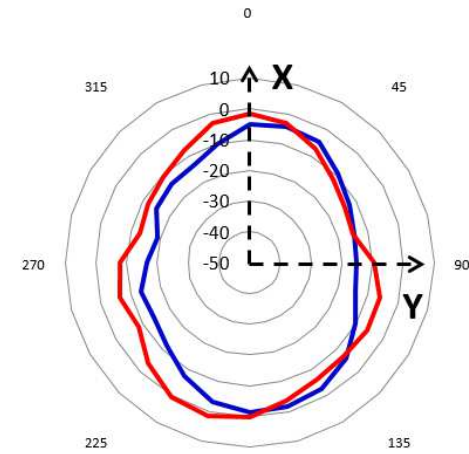
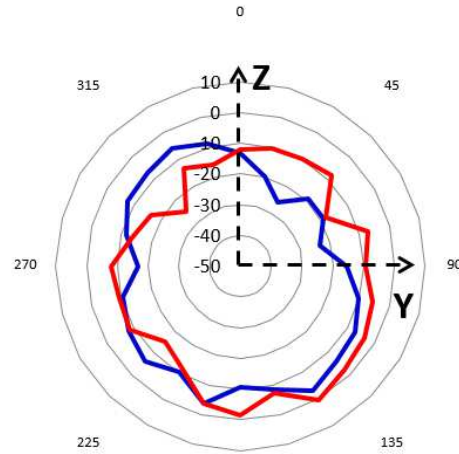
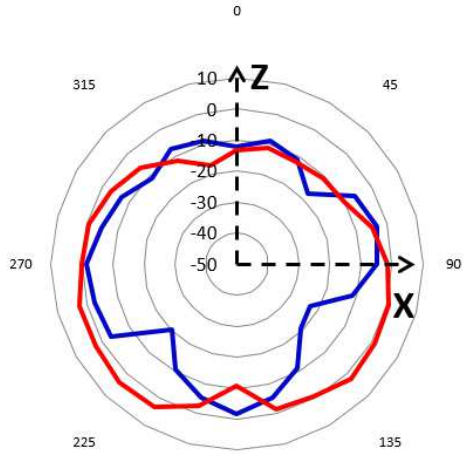
LTE AUX Antenna





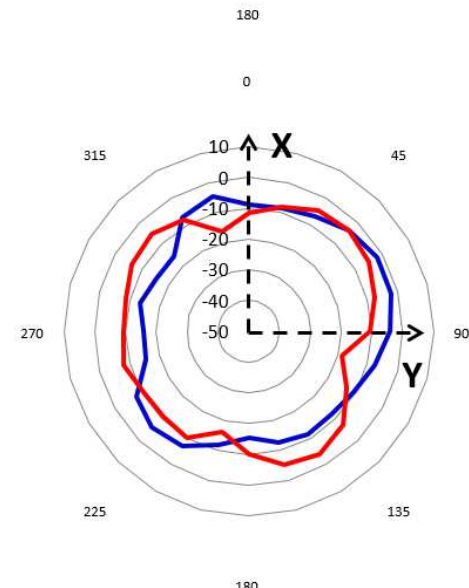
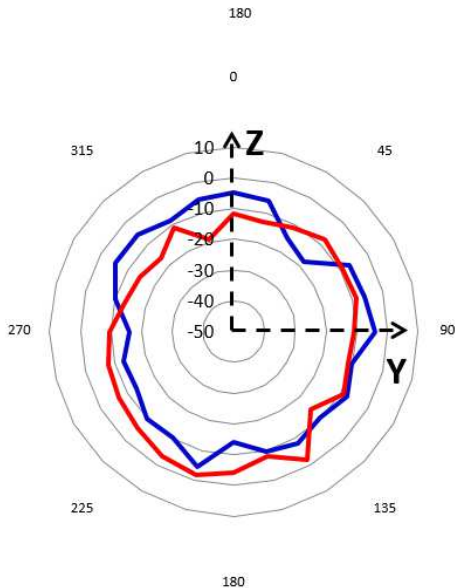
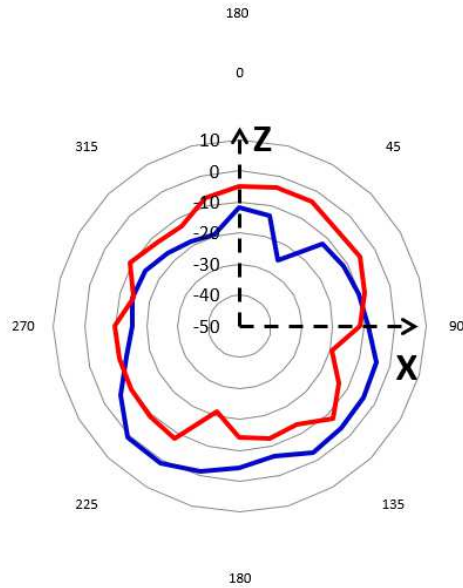
# Antenna Radiation Pattern – LTE antenna\_1990 MHz

LTE Main Antenna



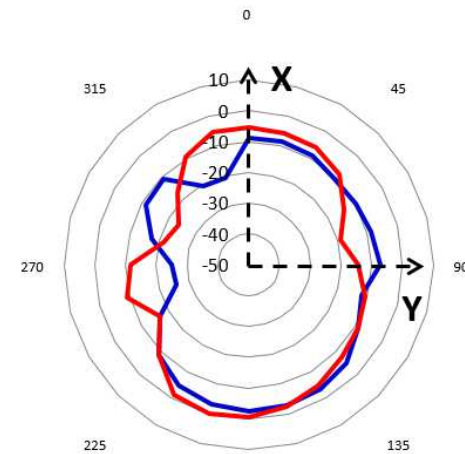
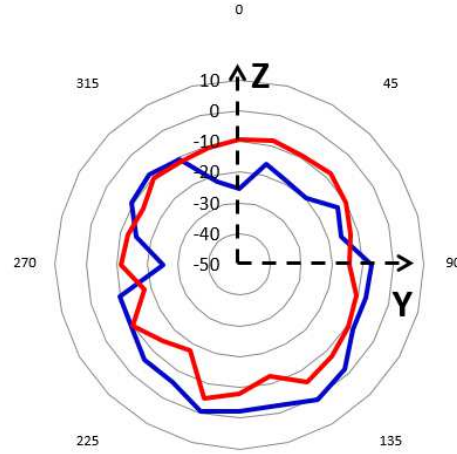
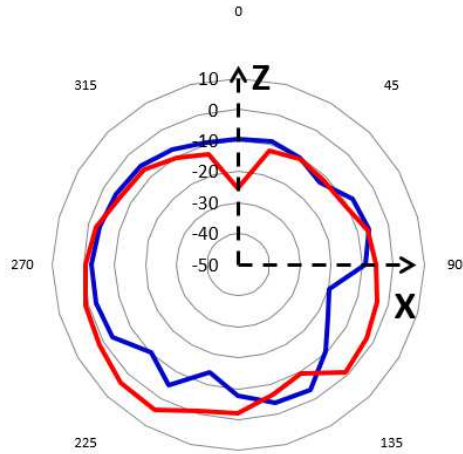
— V-Pol.  
— H-Pol.

LTE AUX Antenna



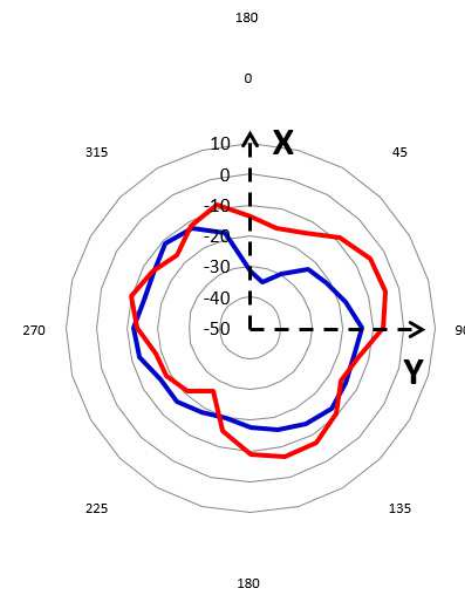
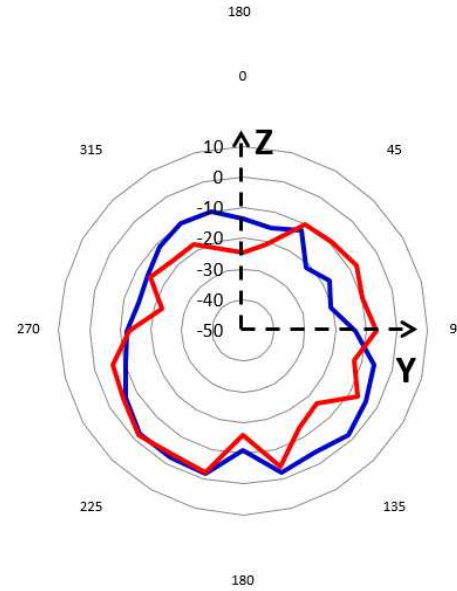
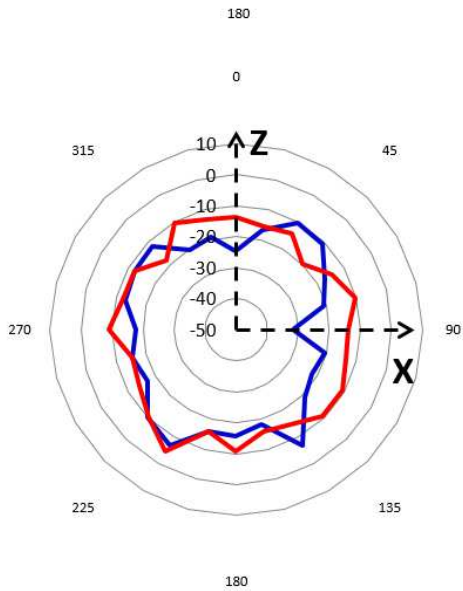
# Antenna Radiation Pattern – LTE antenna\_2155 MHz

LTE Main Antenna



— V-Pol.  
— H-Pol.

LTE AUX Antenna





# Appendix - LTE main

