

Vivint Magellan LTE Antenna Specifications

2023.03.23



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

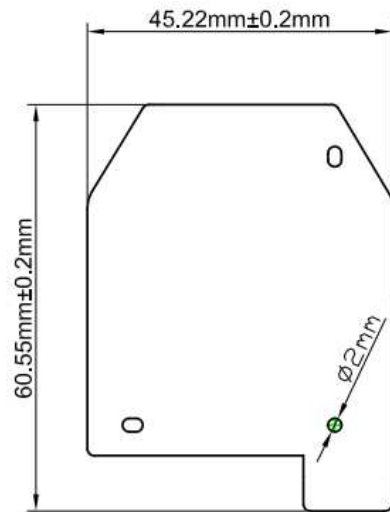
- Main Antenna Peak Gain (Tx):

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

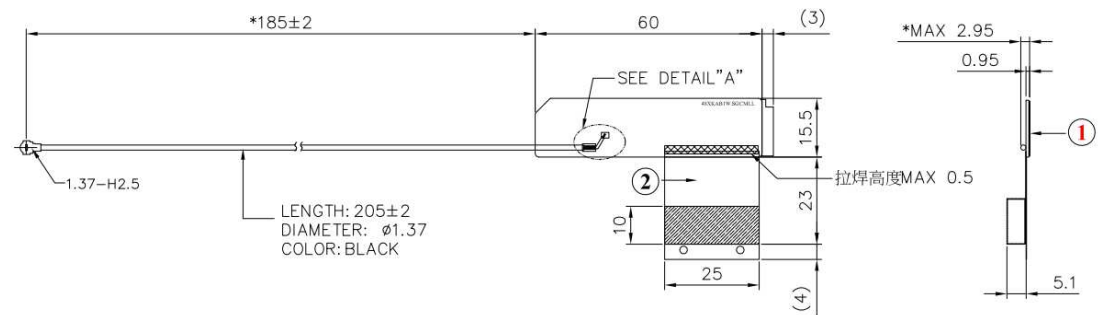
- AUX Antenna Peak Gain (Rx):

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



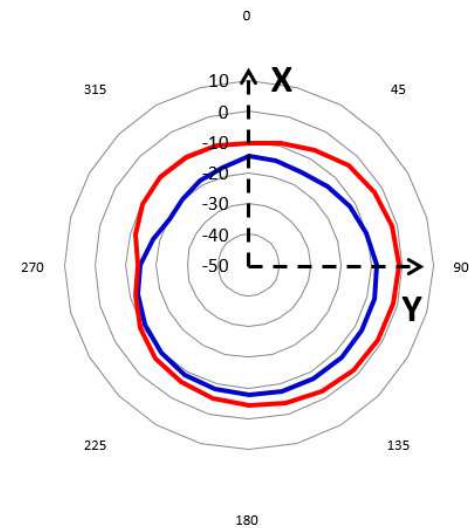
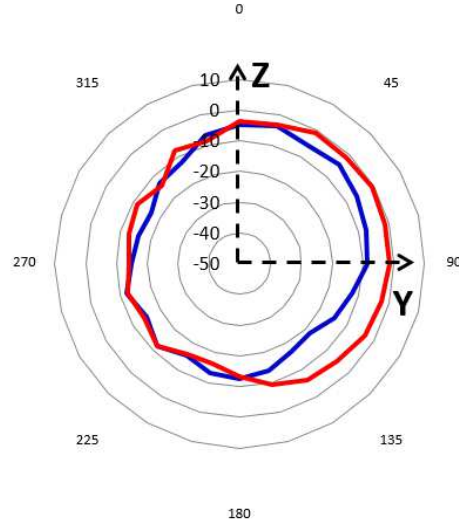
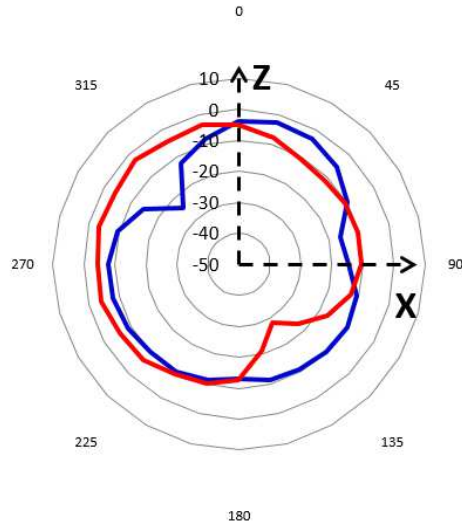
LTE Main Antenna FPC outline



LTE AUX Antenna PCB outline

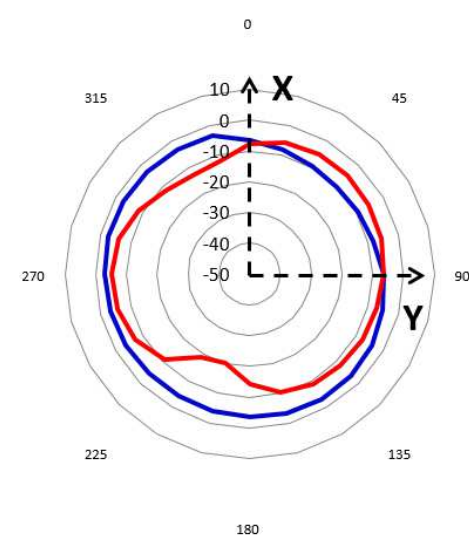
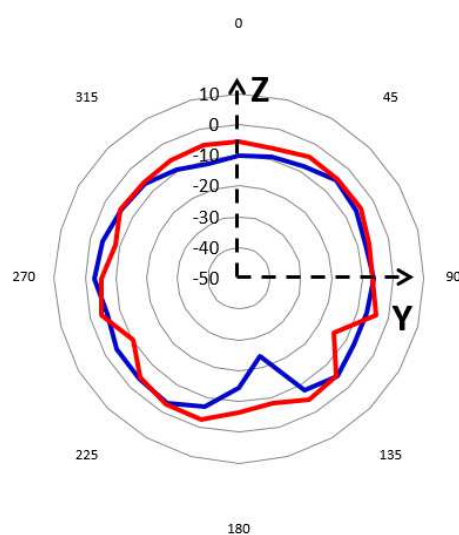
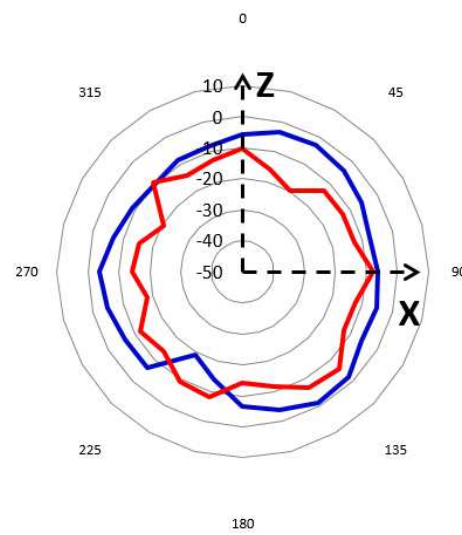
Antenna Radiation Pattern – LTE antenna_699 MHz

LTE Main
Antenna



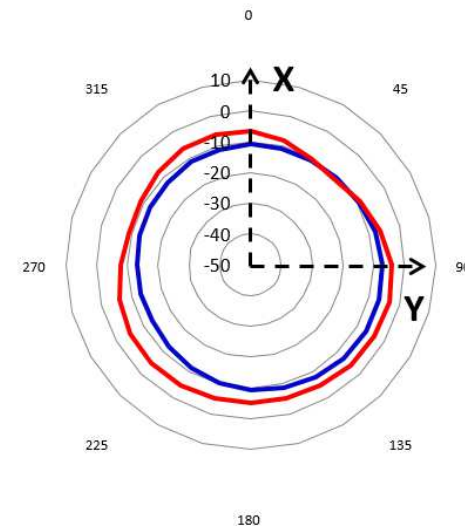
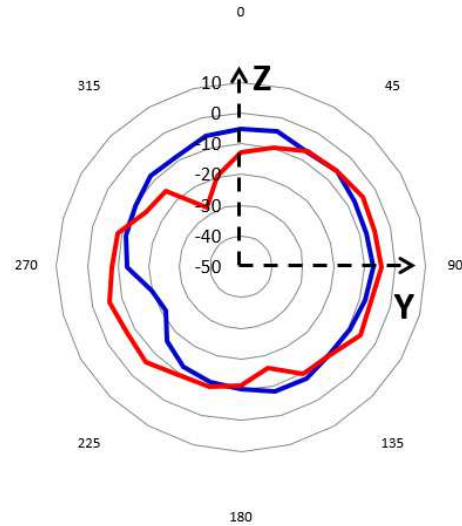
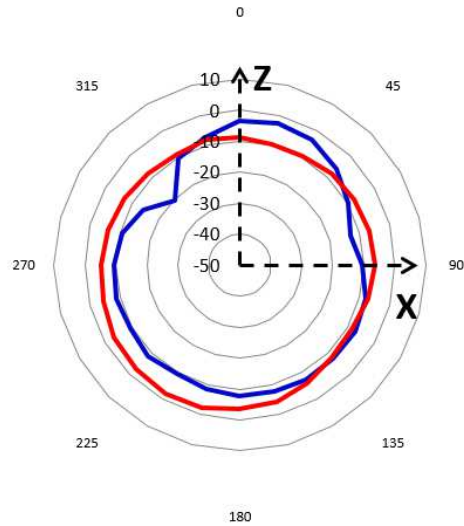
— V-Pol.
— H-Pol.

LTE AUX
Antenna

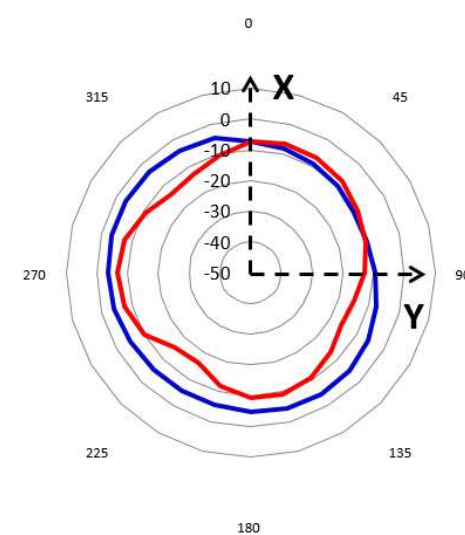
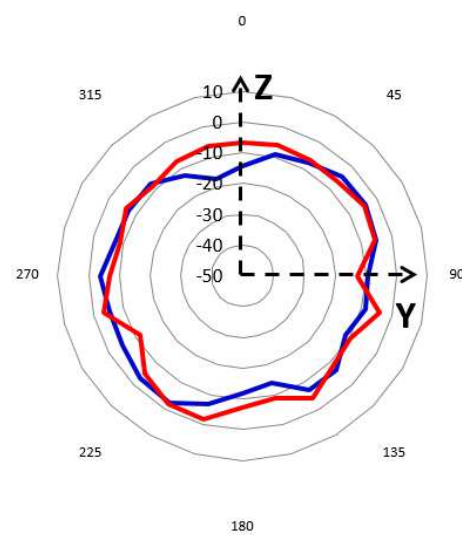
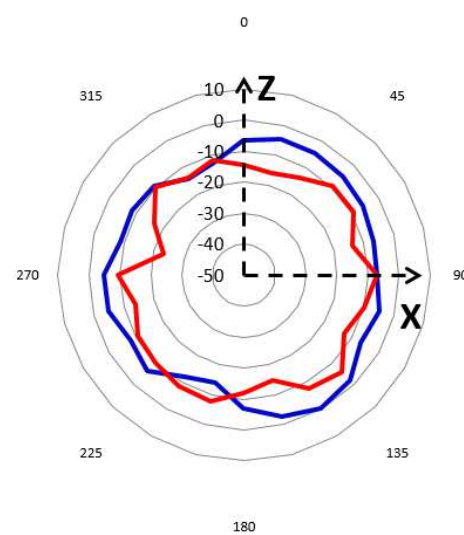


Antenna Radiation Pattern – LTE antenna_746 MHz

LTE Main
Antenna



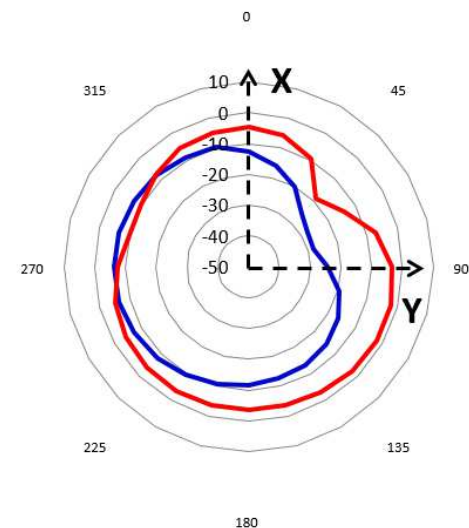
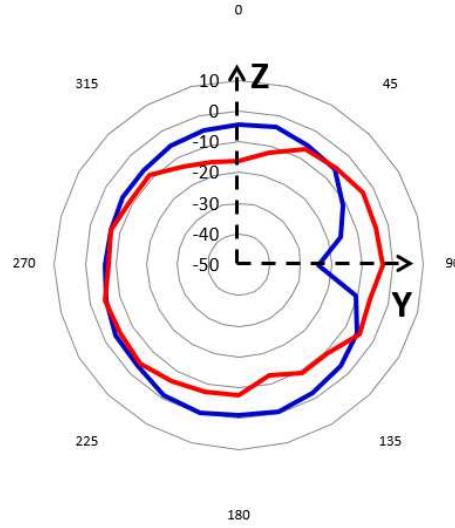
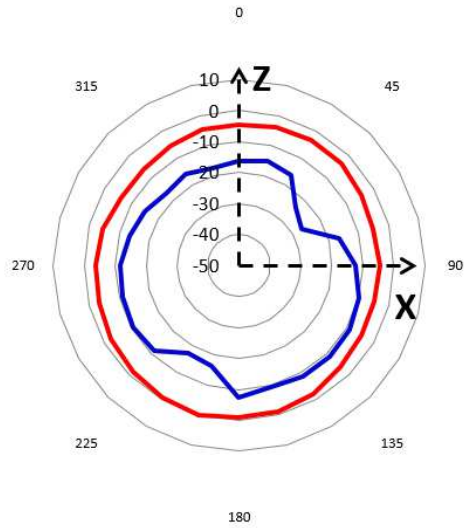
LTE AUX
Antenna



— V-Pol.
— H-Pol.

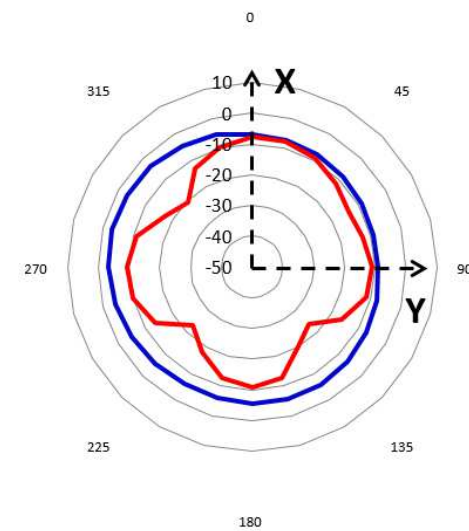
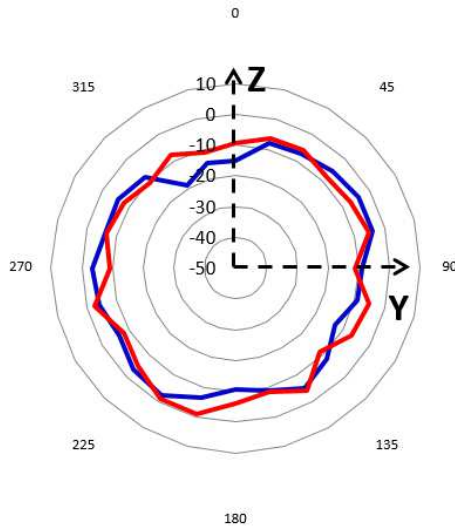
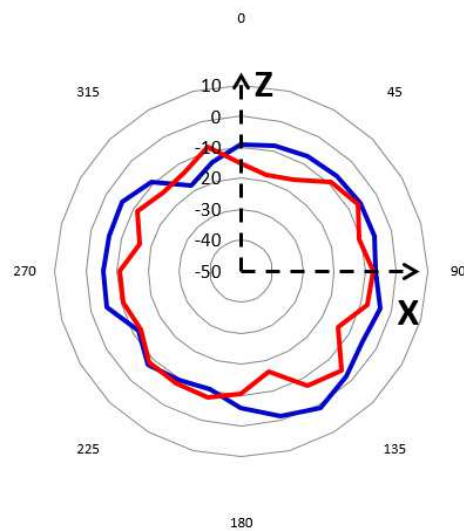
Antenna Radiation Pattern – LTE antenna_787 MHz

LTE Main
Antenna



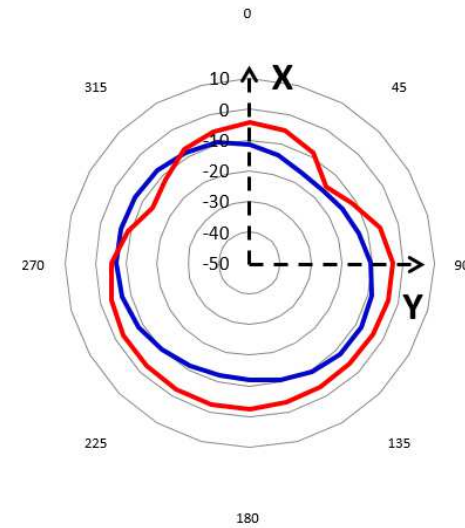
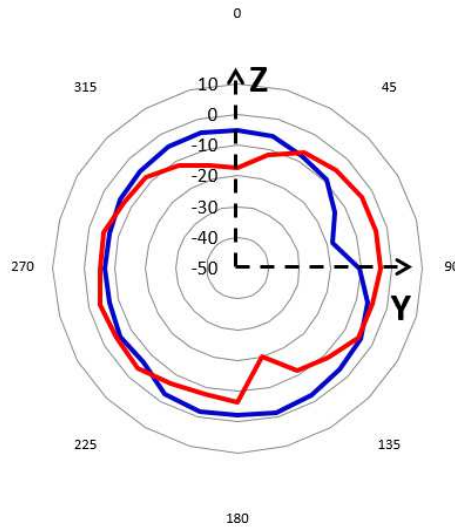
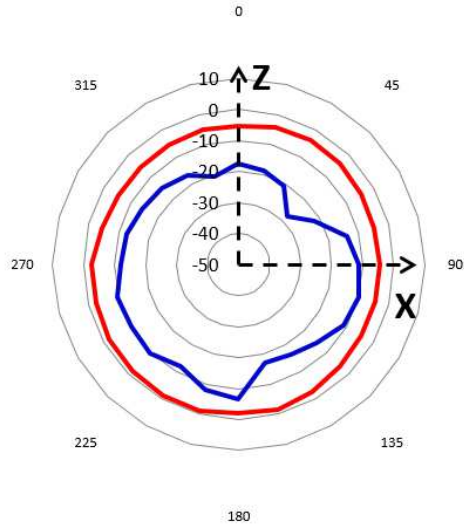
— V-Pol.
— H-Pol.

LTE AUX
Antenna



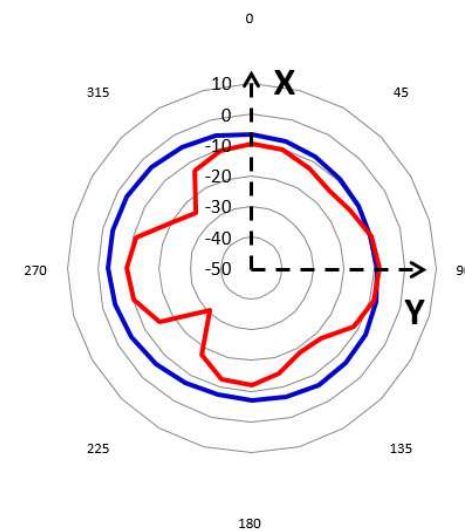
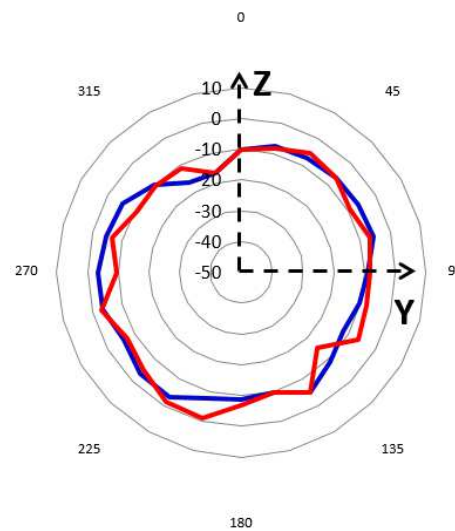
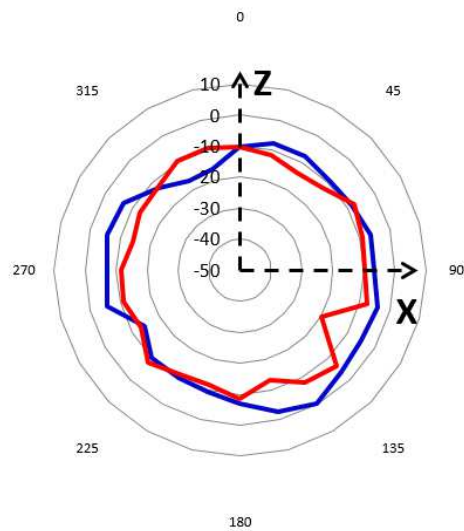
Antenna Radiation Pattern – LTE antenna_824 MHz

LTE Main
Antenna



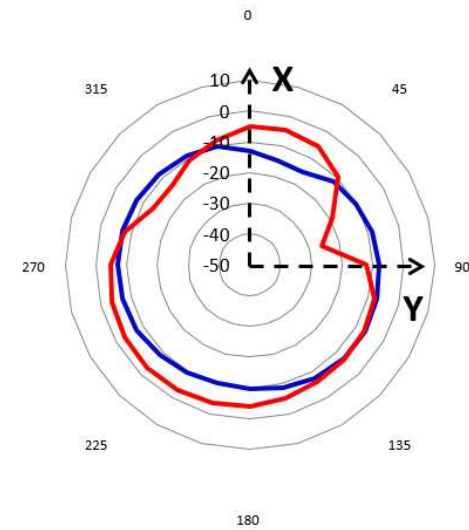
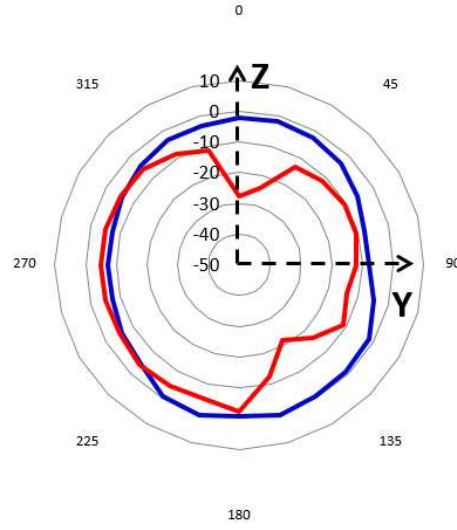
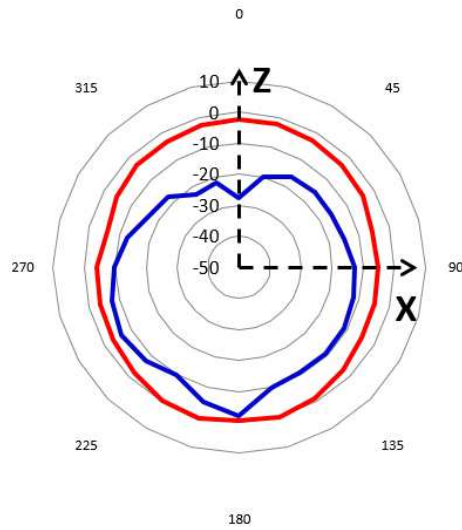
— V-Pol.
— H-Pol.

LTE AUX
Antenna



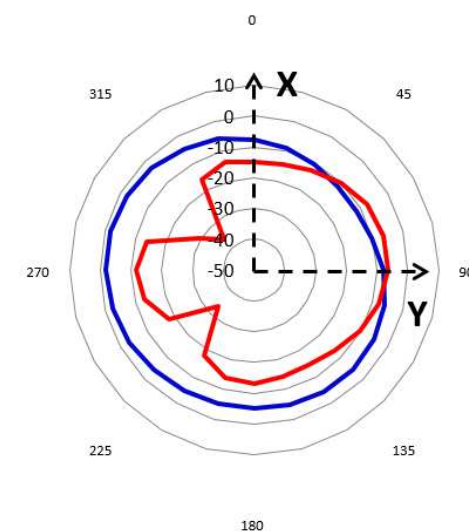
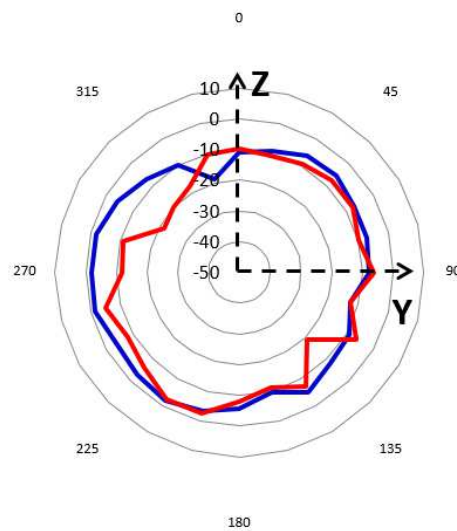
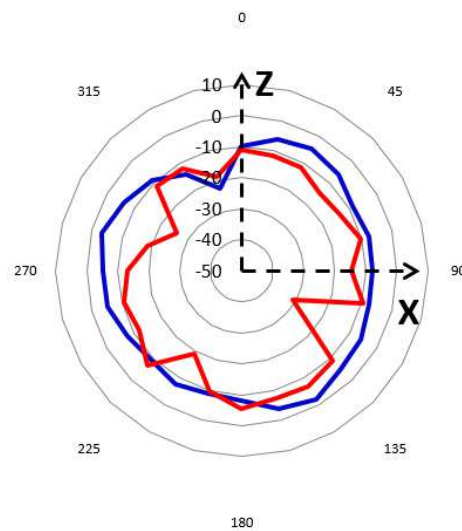
Antenna Radiation Pattern – LTE antenna_894 MHz

LTE Main
Antenna



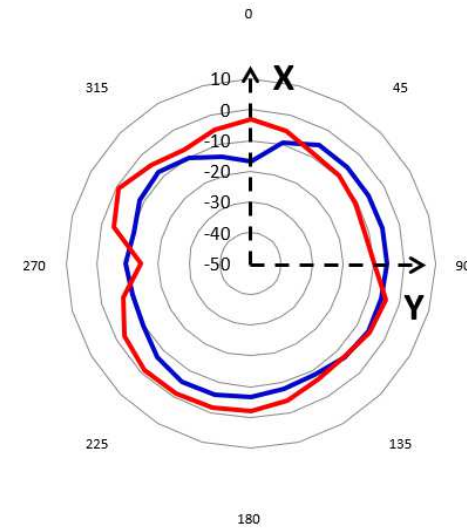
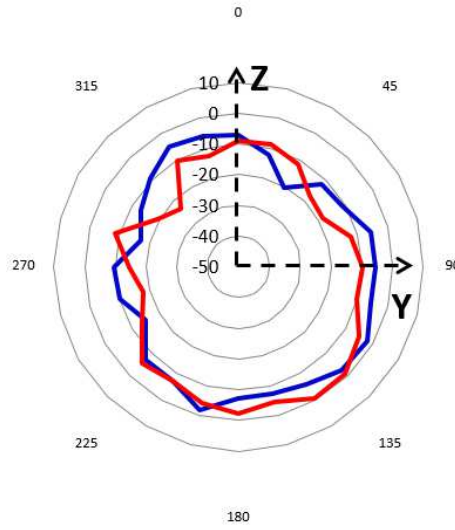
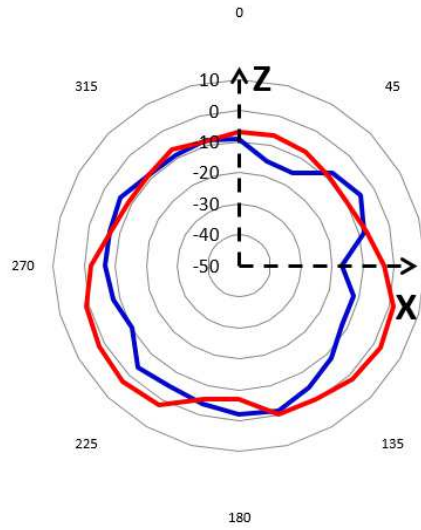
— V-Pol.
— H-Pol.

LTE AUX
Antenna



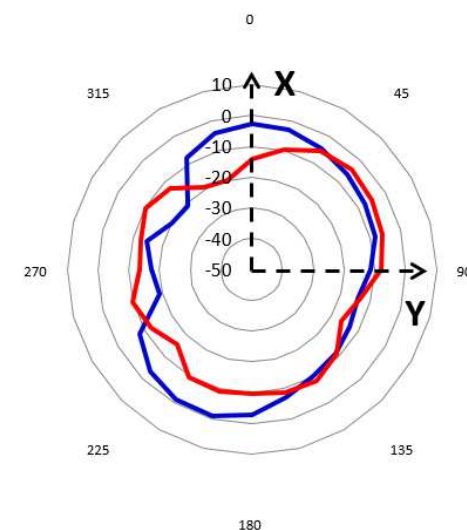
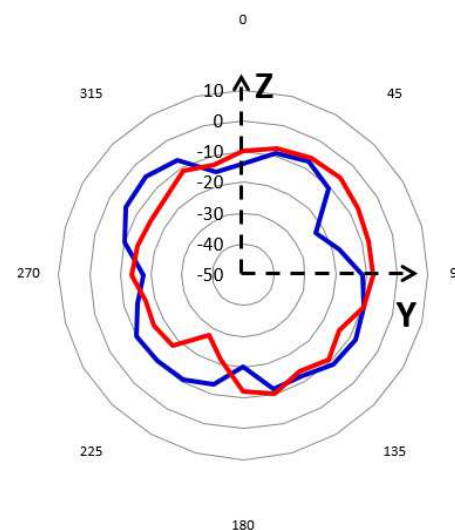
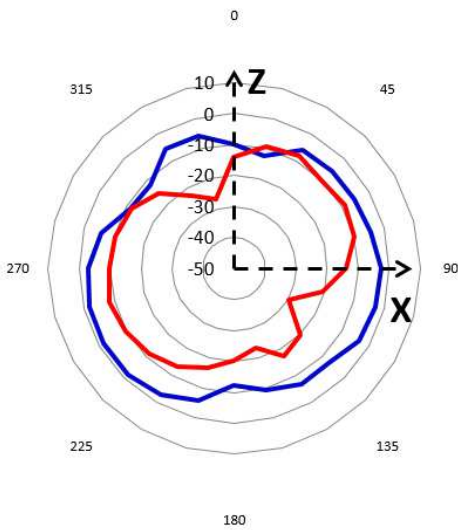
Antenna Radiation Pattern – LTE antenna_1710 MHz

LTE Main
Antenna



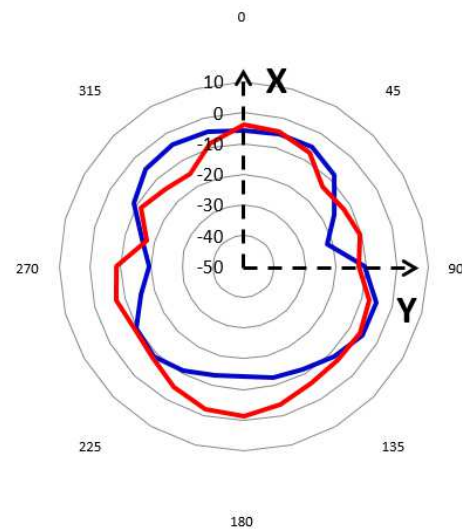
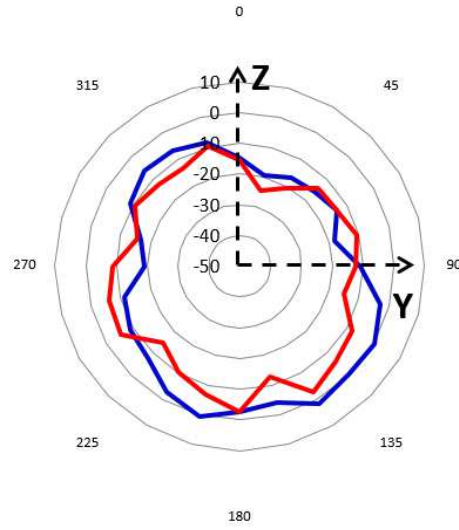
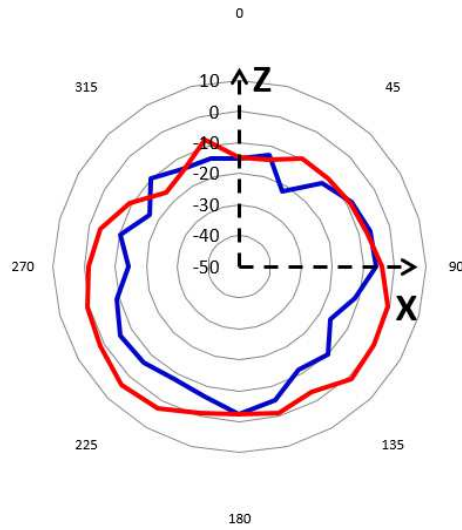
— V-Pol.
— H-Pol.

LTE AUX
Antenna



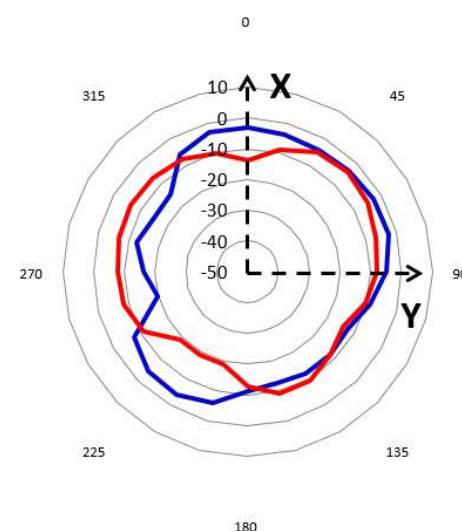
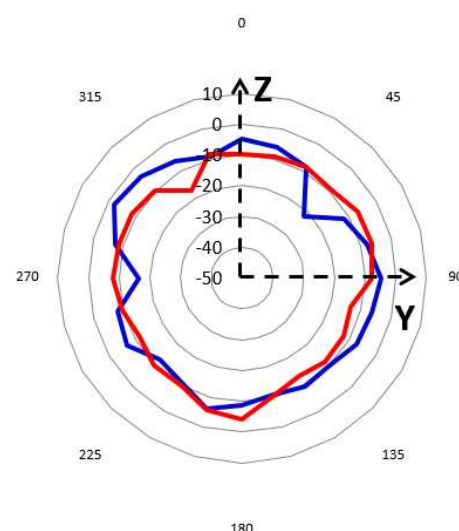
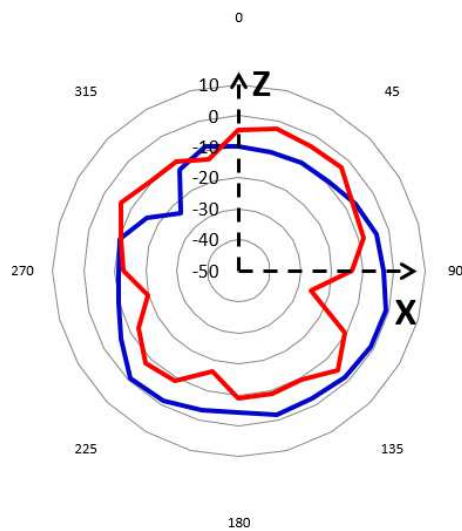
Antenna Radiation Pattern – LTE antenna_1850 MHz

LTE Main
Antenna



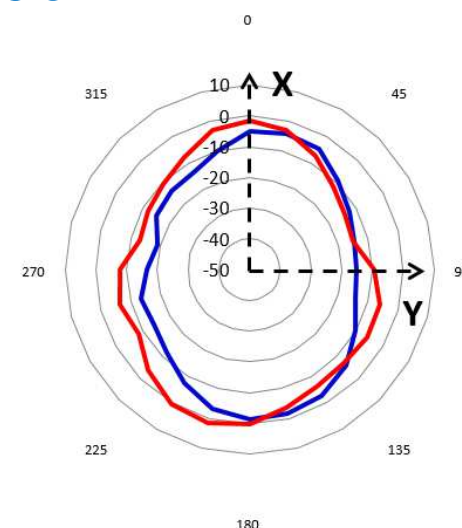
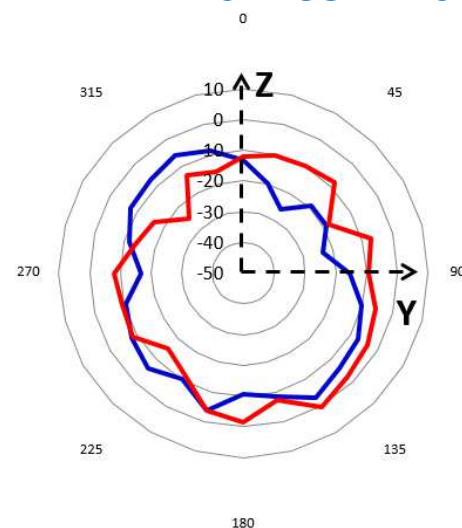
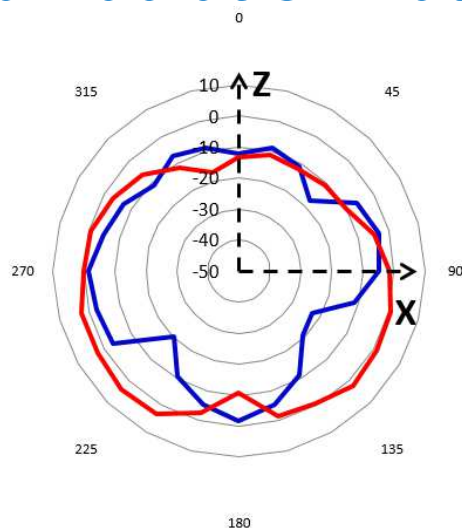
— V-Pol.
— H-Pol.

LTE AUX
Antenna

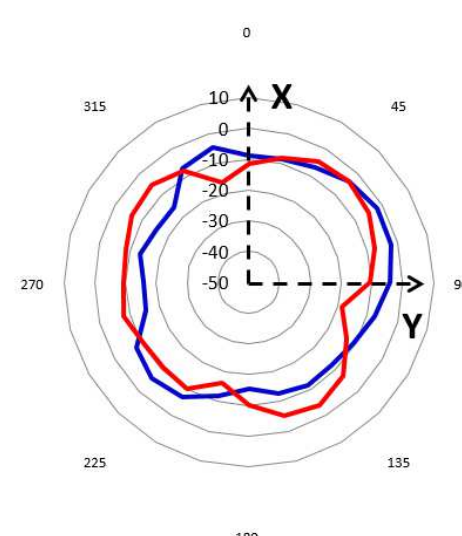
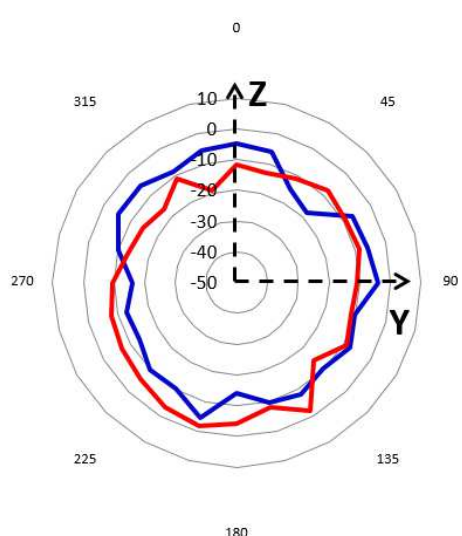
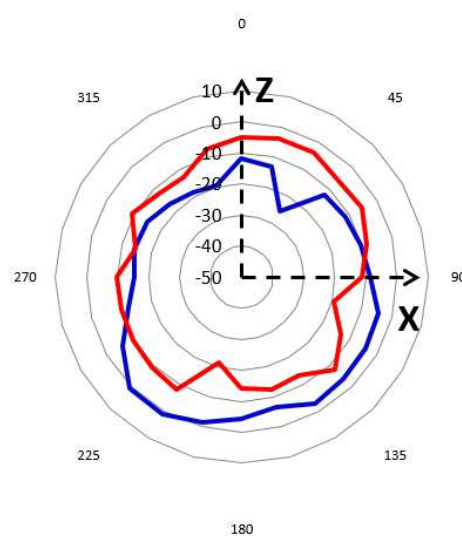


Antenna Radiation Pattern – LTE antenna_1990 MHz

LTE Main
Antenna

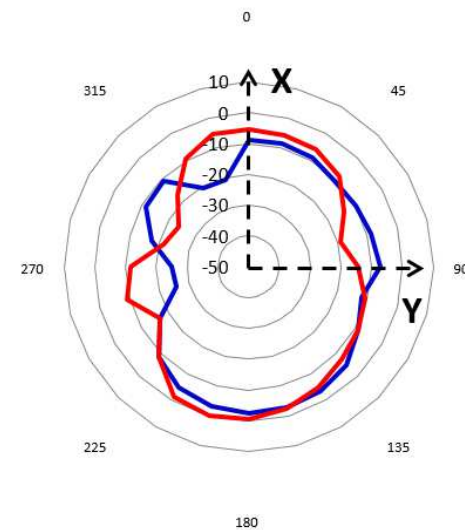
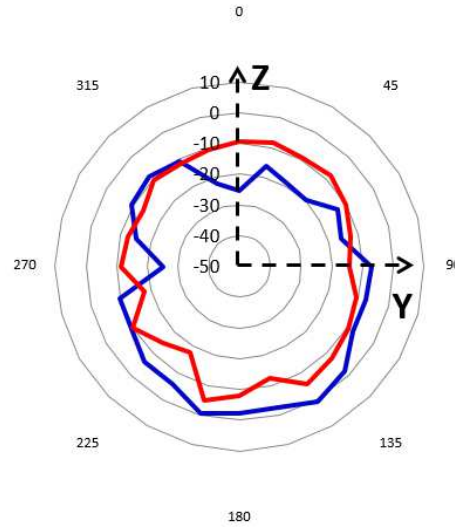
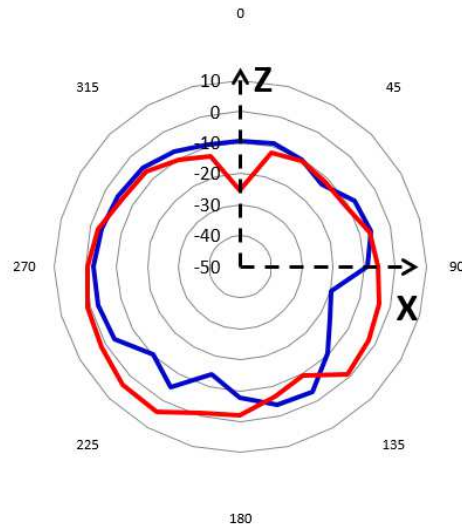


LTE AUX
Antenna



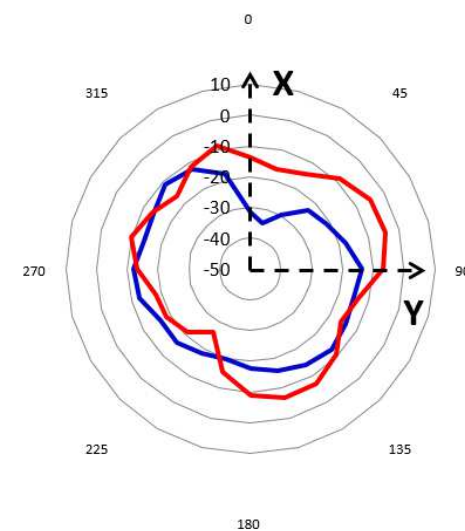
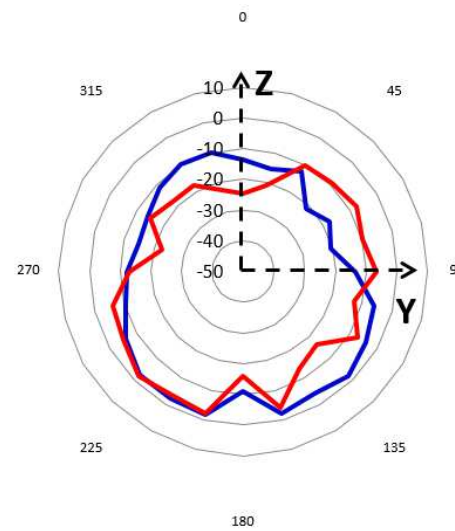
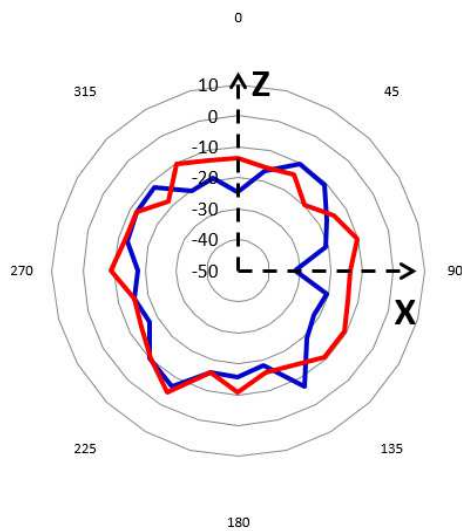
Antenna Radiation Pattern – LTE antenna_2155 MHz

LTE Main
Antenna

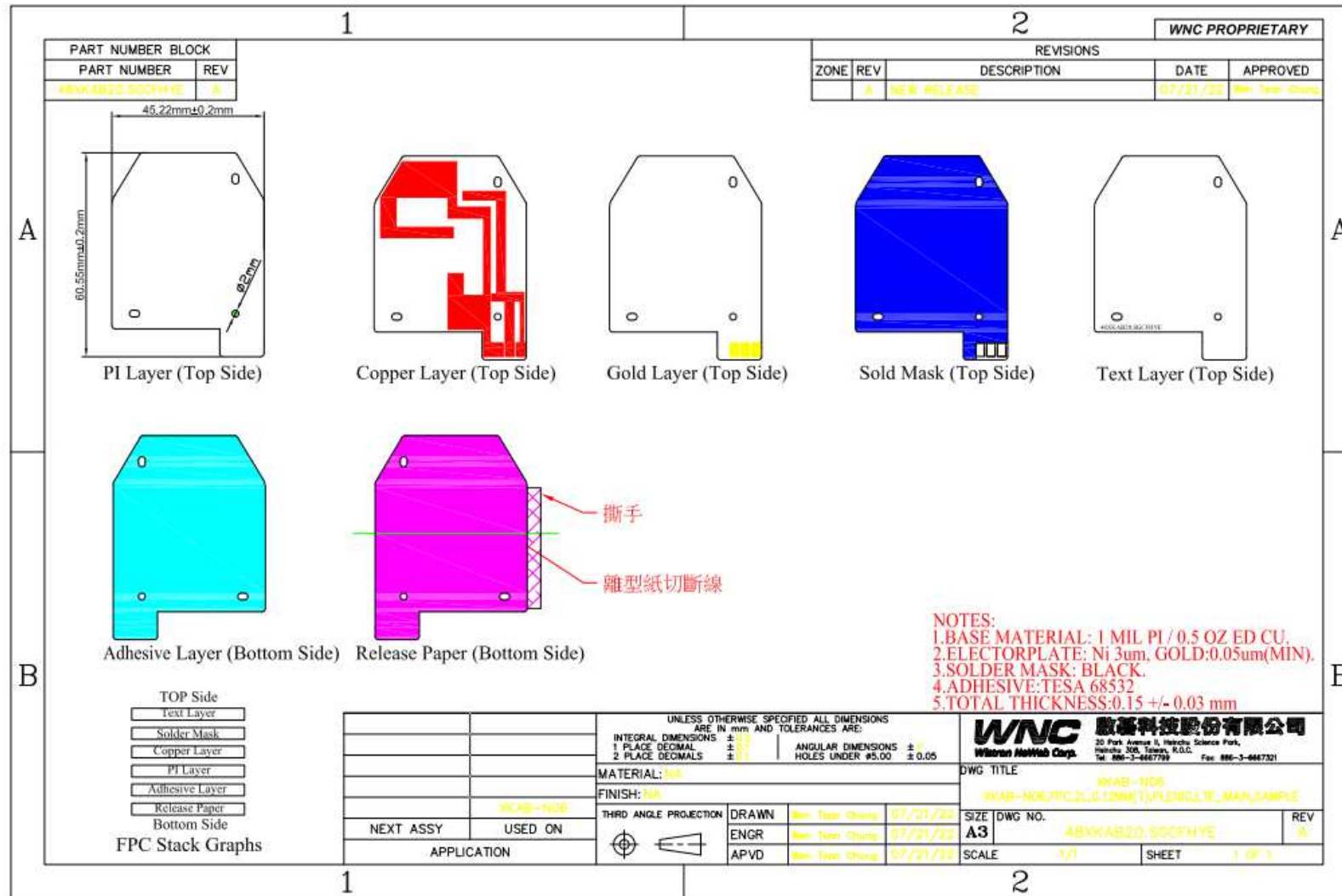


— V-Pol.
— H-Pol.

LTE AUX
Antenna



Appendix - LTE main



Appendix - LTE AUX

