

Genesis Antenna Performance Report

2026/3/26
WNC

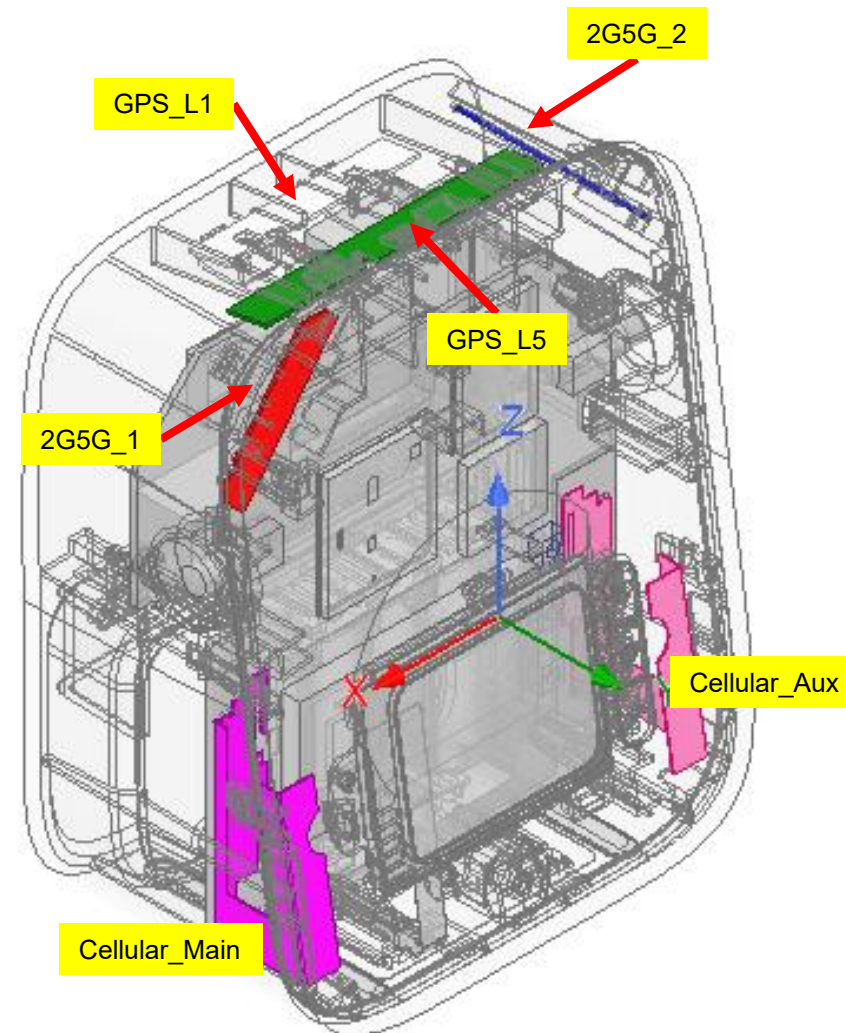
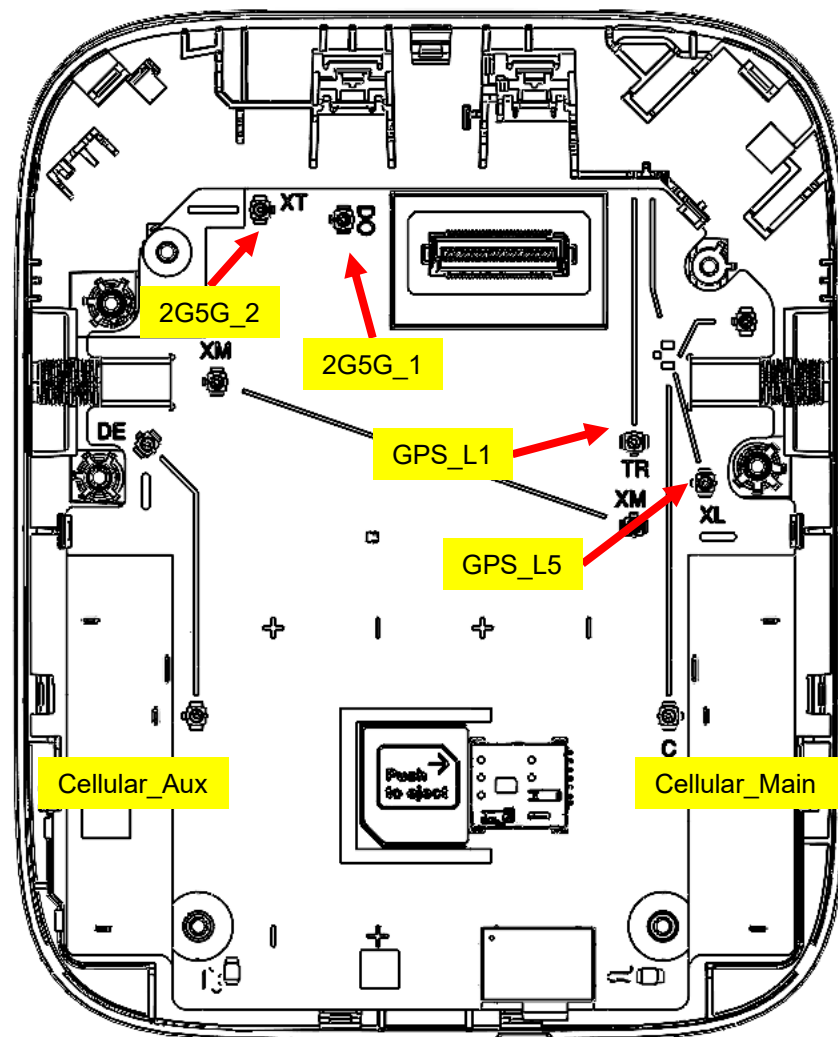
Genesis Antenna

- WIFI dual band antenna :
 - 2 pcs (2G5G_1 and 2G5G_2)
 - Band : 2.4G, 2400 ~ 2490 MHz (2G5G_1 and 2G5G_2)
5G, 5150 ~ 5850 MHz (2G5G_1 and 2G5G_2)
 - Size : 40 x 8 x 0.8mm (2G5G_1)
40 x 8 x 0.8mm (2G5G_2)
 - Antenna Type : Dipole (2G5G_1)
Dipole (2G5G_2)
 - Manufacturer : WISTRON NEWEB CORPORATION (WNC)
 - Address : NO. 20, PARK AVENUE II , HSINCHU SCIENCE PARK, HSINCHU 30844, TAIWAN
 - Model : 95XPAA15.G48VZ (2G5G_1), 95XPAA15.G49VZ (2G5G_2)
- GPS antenna :
 - 2 pcs (GPS_L1 and GPS_L5)
 - Band : L1, 1559 ~ 1610 MHz (GPS_L1)
L5, 1164 ~ 1215 MHz (GPS_L5)
 - Size : 50 x 10 x 0.8mm (GPS_L1)
72 x 10 x 0.8mm (GPS_L5)
 - Antenna Type : Dipole (GPS_L1)
Dipole (GPS_L5)
 - Manufacturer : WISTRON NEWEB CORPORATION (WNC)
 - Address : NO. 20, PARK AVENUE II , HSINCHU SCIENCE PARK, HSINCHU 30844, TAIWAN
 - Model : 95XPAA15.G46VZ (GPS-L1), 95XPAA15.G47VZ (GPS-L5)

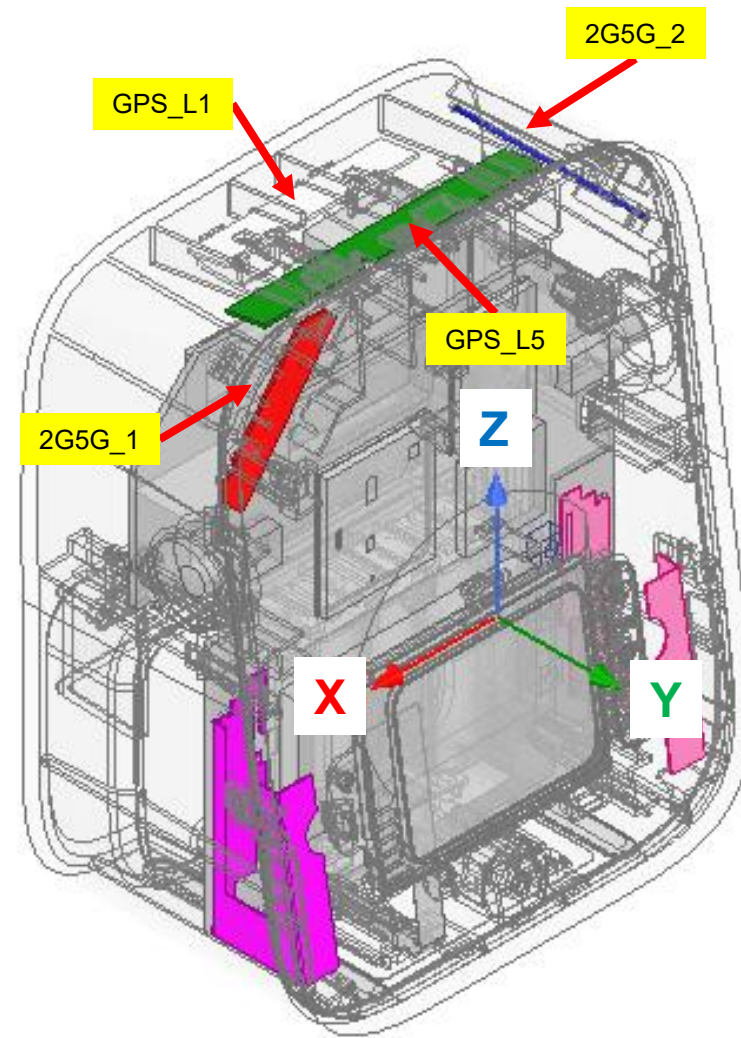
Genesis Antenna

- Cellular full band antenna :
 - 2 pcs (Cellular_Main and Cellular_Aux)
 - Band : LB, 746 ~ 894 MHz, B5/B13, n5/n13 (Cellular_Main and Cellular_Aux)
MB, 1700 ~ 2200 MHz, B2/B4/B66, n2/n66 (Cellular_Main and Cellular_Aux)
UHB, 3300 ~ 4200 MHz, B48, n48/n77 (Cellular_Main and Cellular_Aux)
 - Size : 52.78 x 14 x 24.25mm (Cellular_Main)
52.78 x 14 x 24.25mm (Cellular_Aux)
 - Antenna Type : IFA (Cellular_Main)
IFA (Cellular_Aux)
 - Manufacturer : WISTRON NEWEB CORPORATION (WNC)
 - Address : NO. 20, PARK AVENUE II , HSINCHU SCIENCE PARK, HSINCHU 30844, TAIWAN
 - Model : 3S.008K0.111 (Cellular_Main), 3S.008K1.111 (Cellular_Aux)

RF Connector/Antenna port mapping

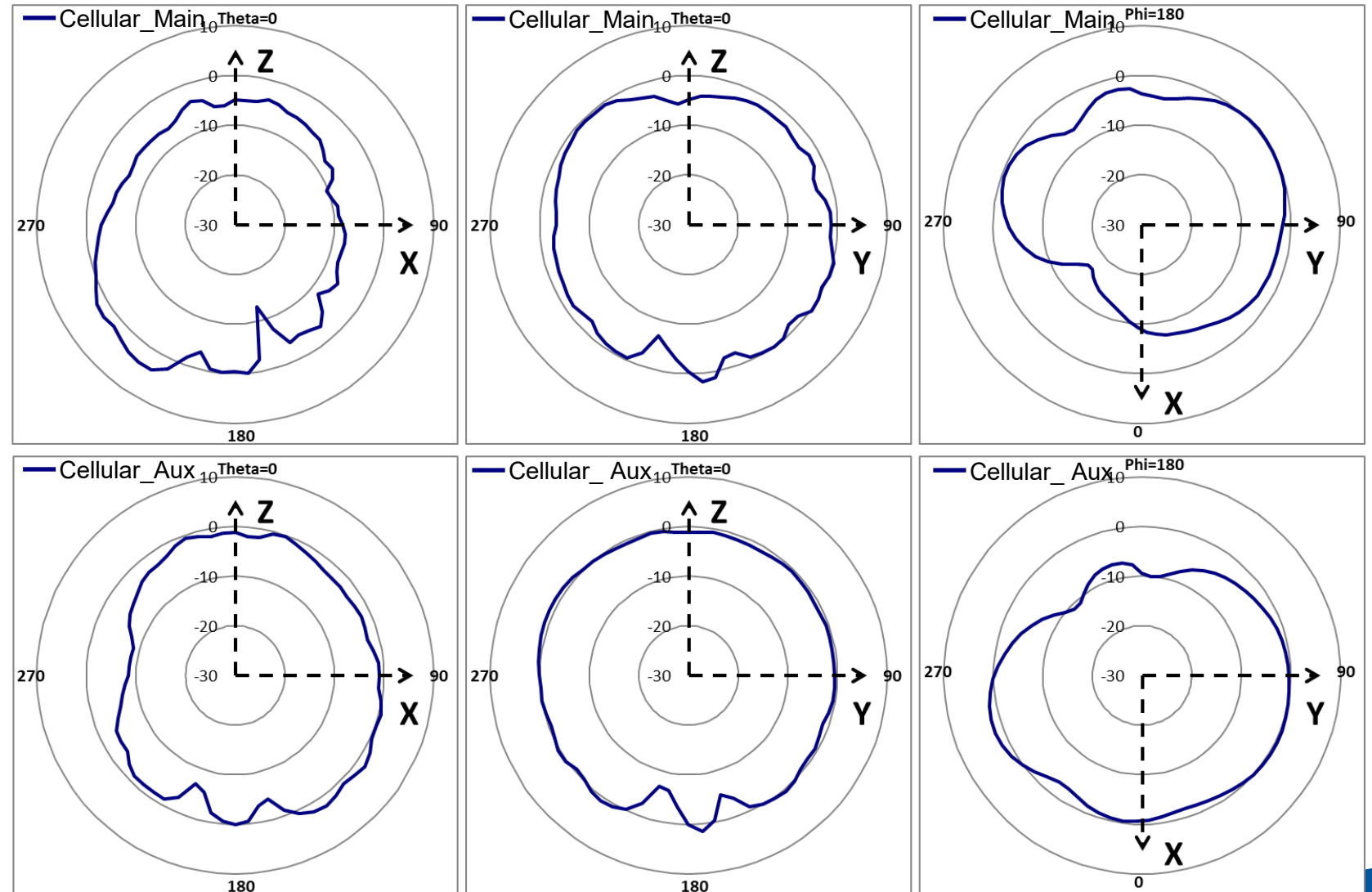
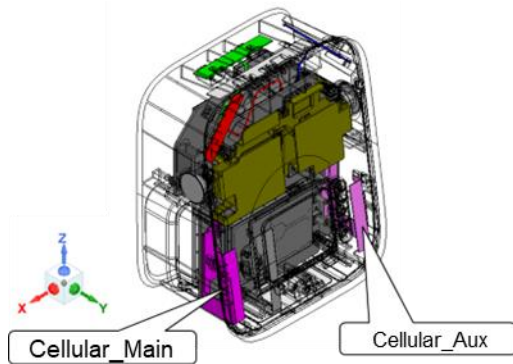


Coordinate

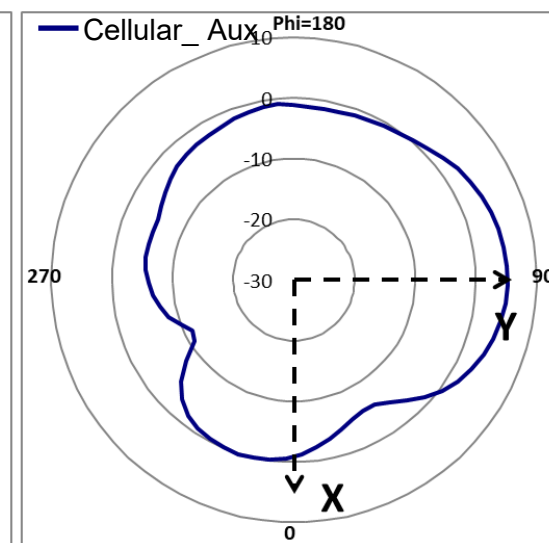
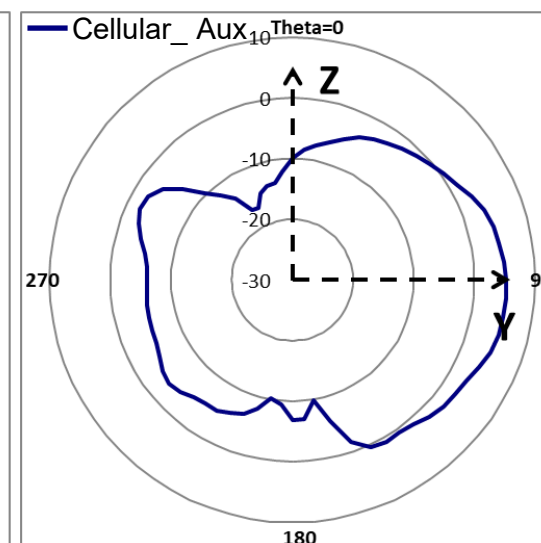
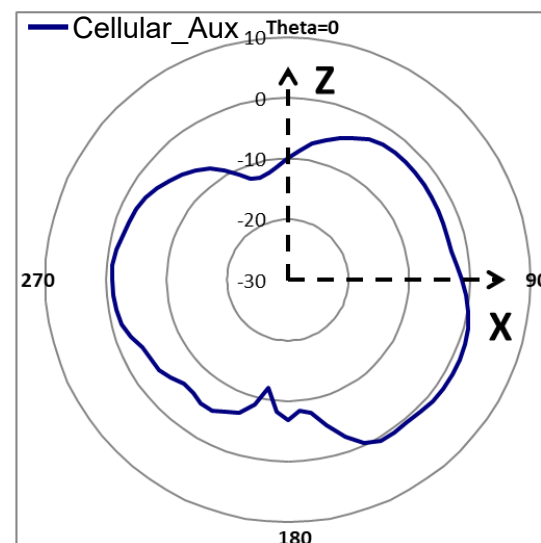
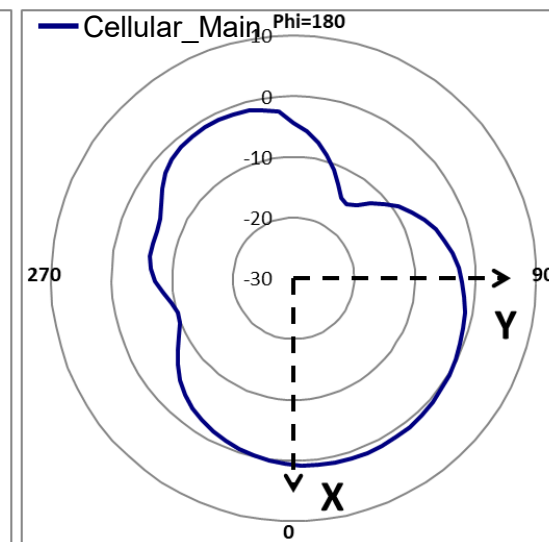
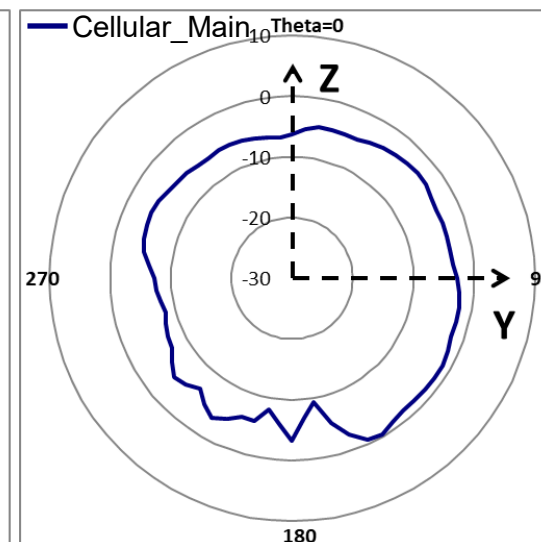
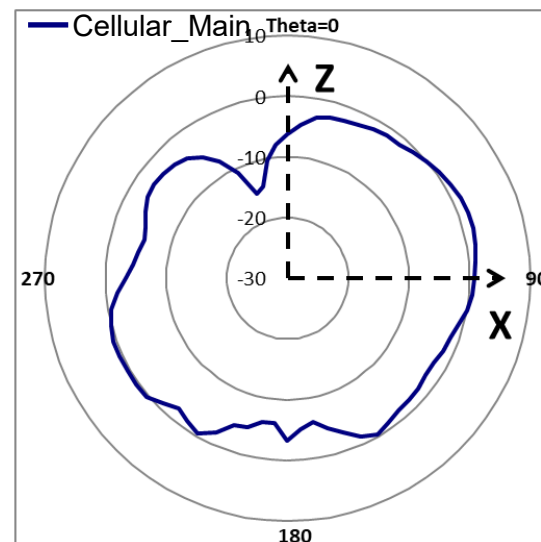
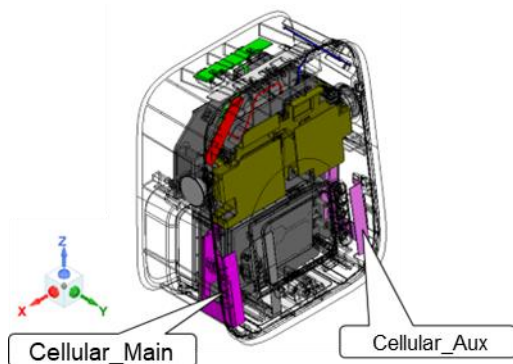


Cellular Antennas

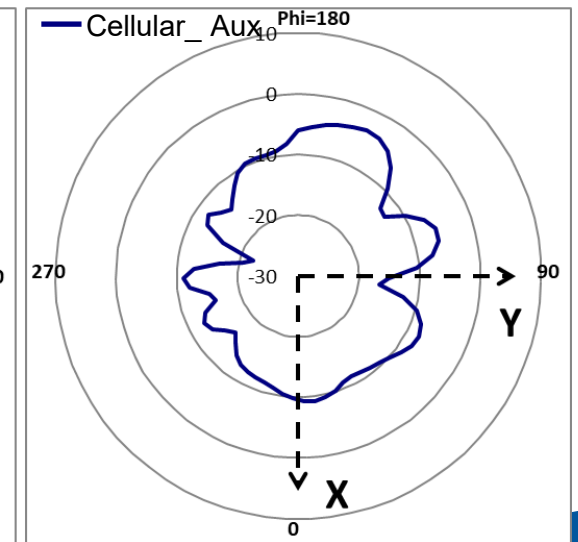
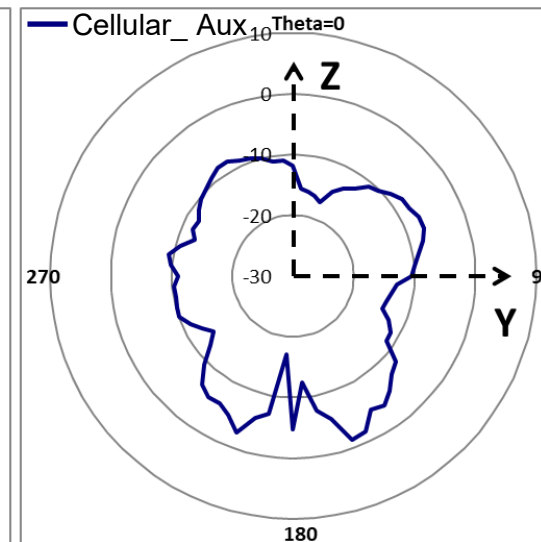
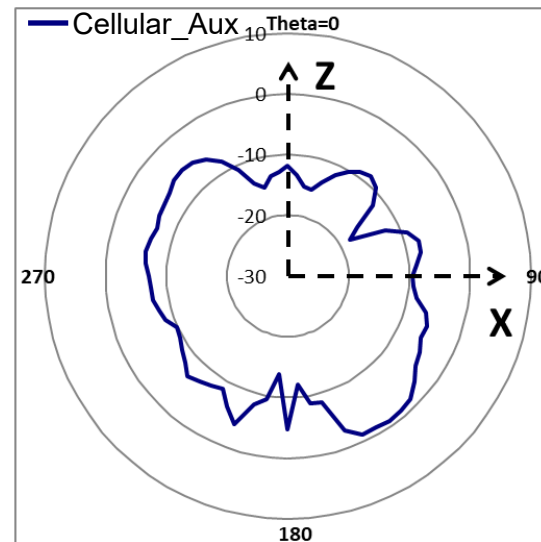
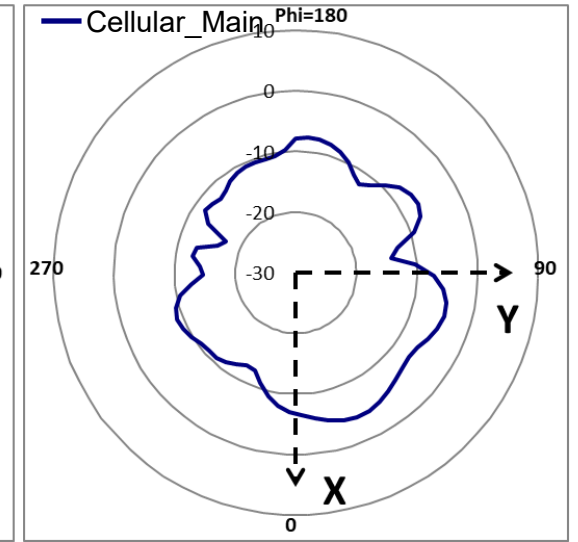
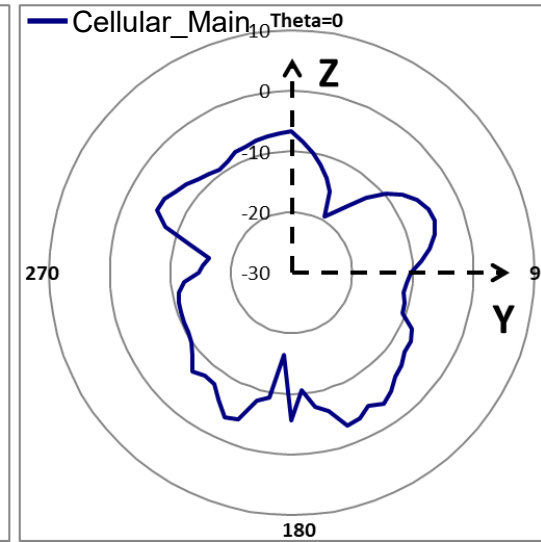
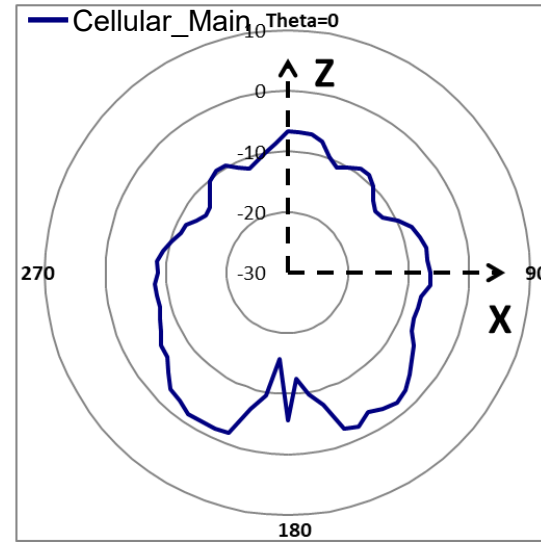
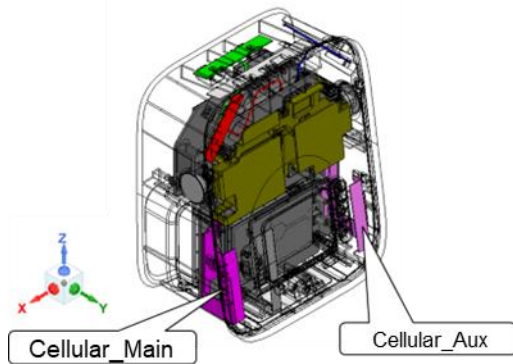
Radiation Pattern @ 820 MHz



Radiation Pattern @ 1950 MHz



Radiation Pattern @ 3750 MHz

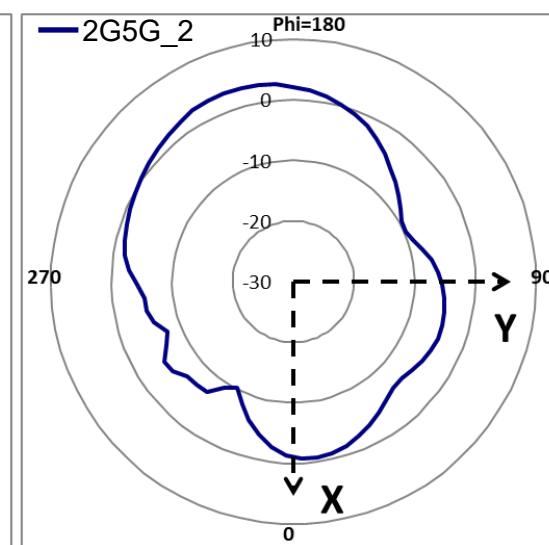
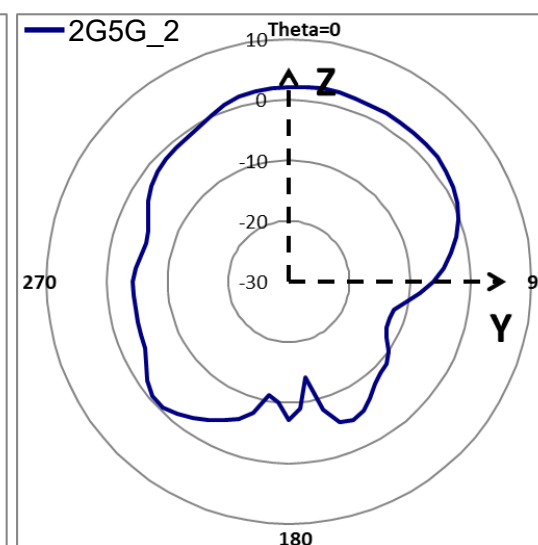
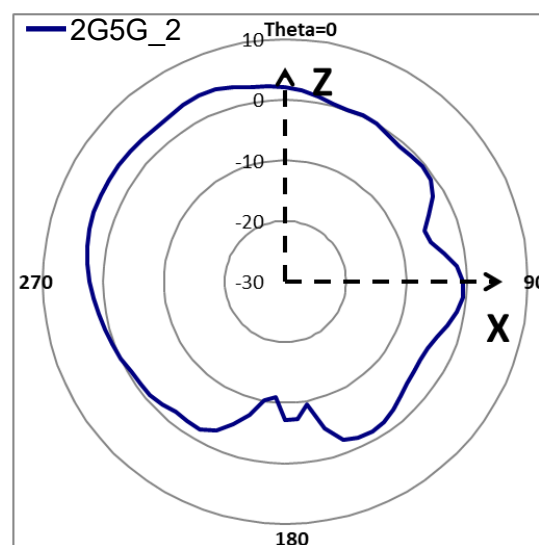
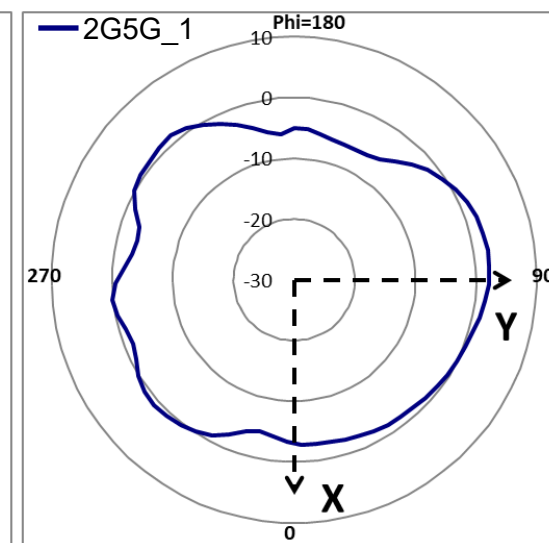
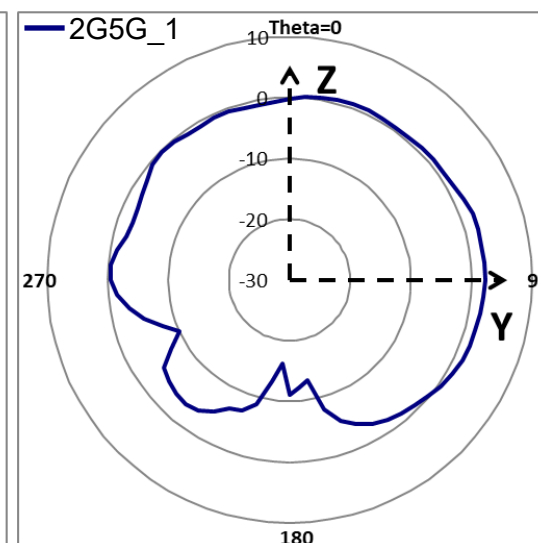
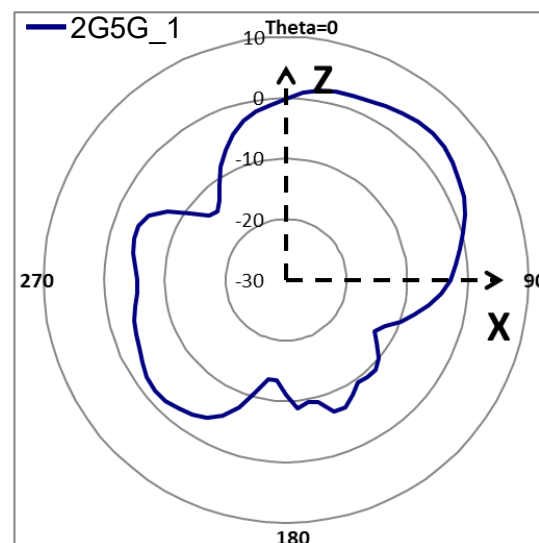
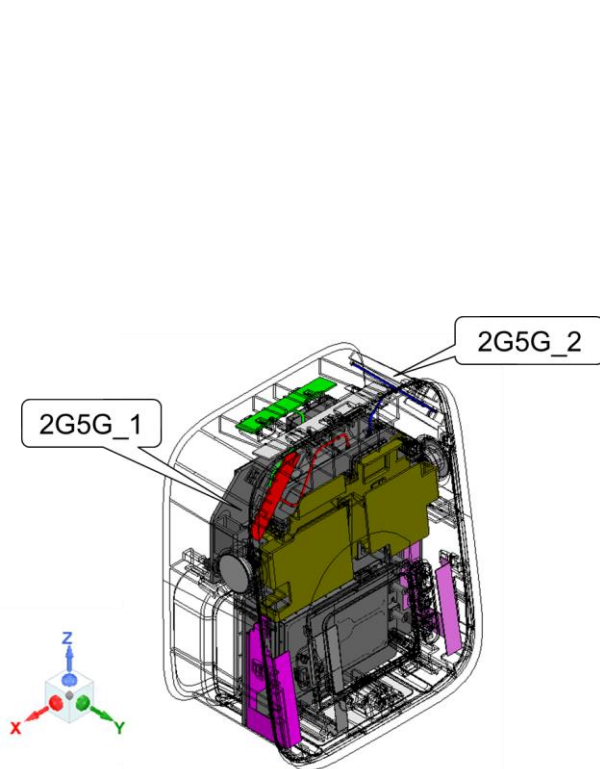


Peak Gain

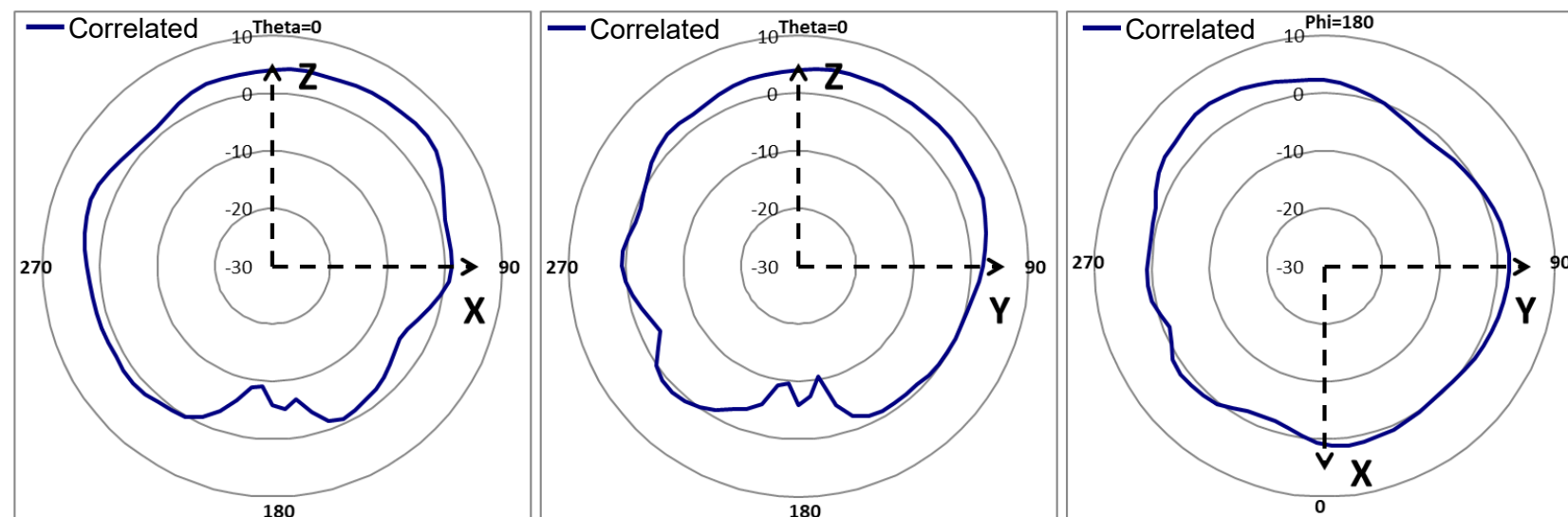
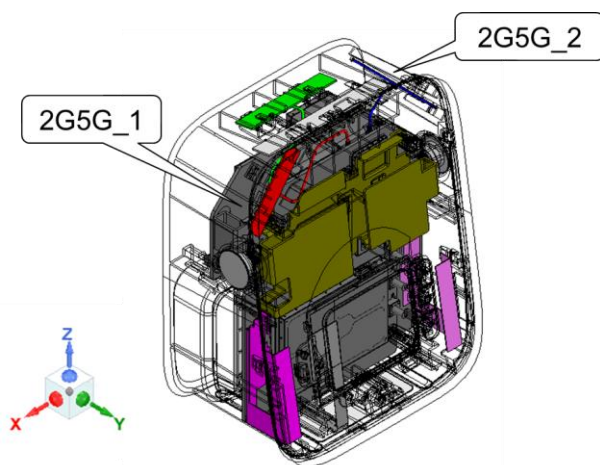
LB	Peak Gain			
Frequency (MHz)	746	820	894	Maximal
Cellular_Main	2.38	3.88	3.32	3.88
Cellular_Aux	2.09	2.29	4.54	4.54
MB	Peak Gain			
Frequency (MHz)	1700	1950	2200	Maximal
Cellular_Main	2.29	1.96	3.27	3.27
Cellular_Aux	4.00	5.33	3.98	5.33
UHB	Peak Gain			
Frequency (MHz)	3300	3750	4200	Maximal
Cellular_Main	-0.30	-0.77	-0.53	-0.30
Cellular_Aux	0.99	-0.15	-0.38	0.99

WIFI Antenna

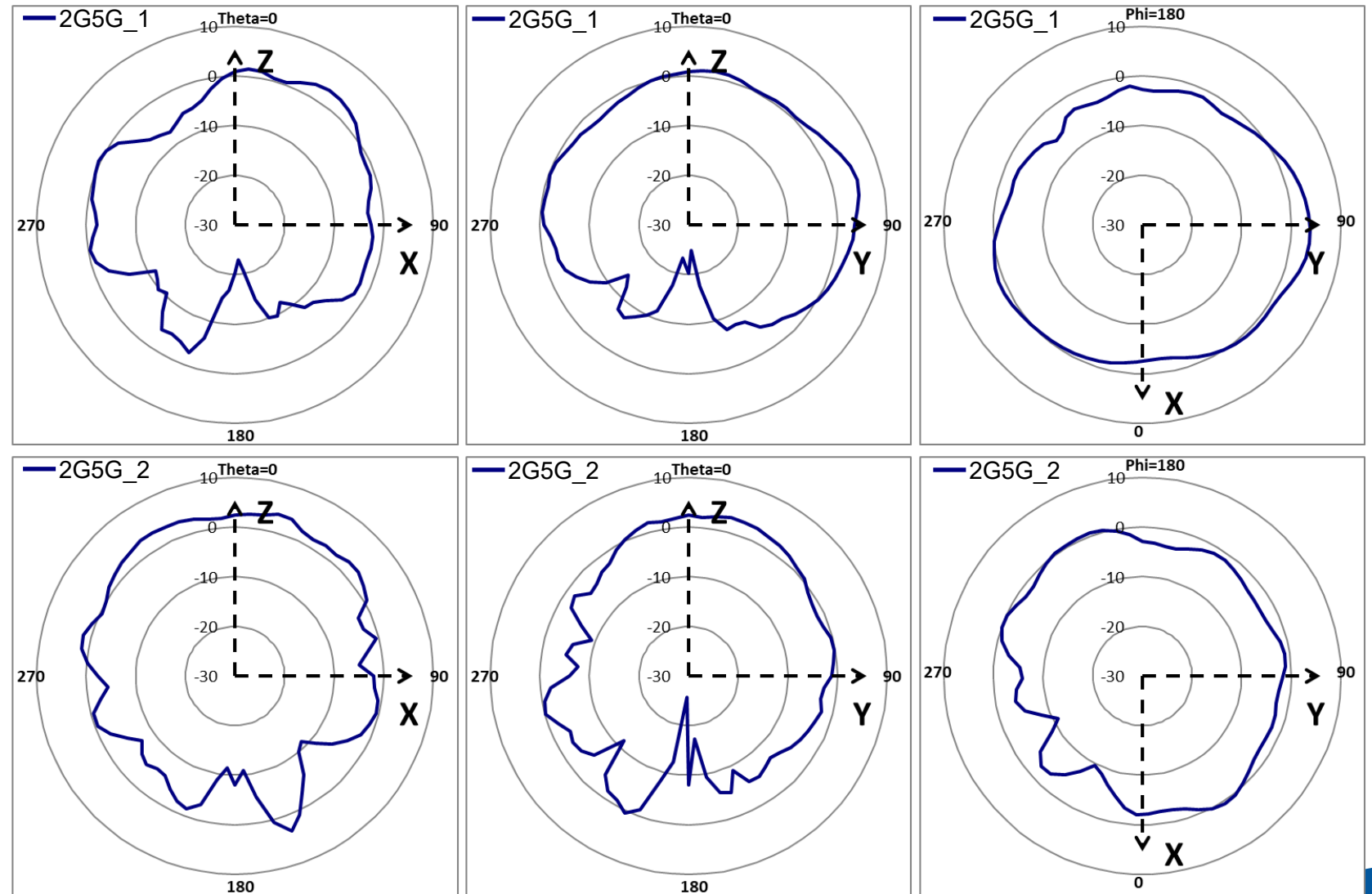
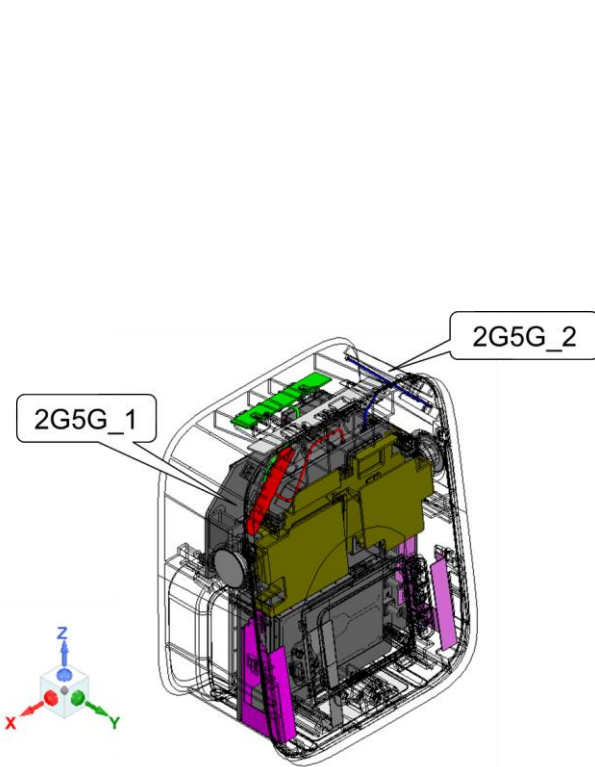
Radiation Pattern @ 2445 MHz



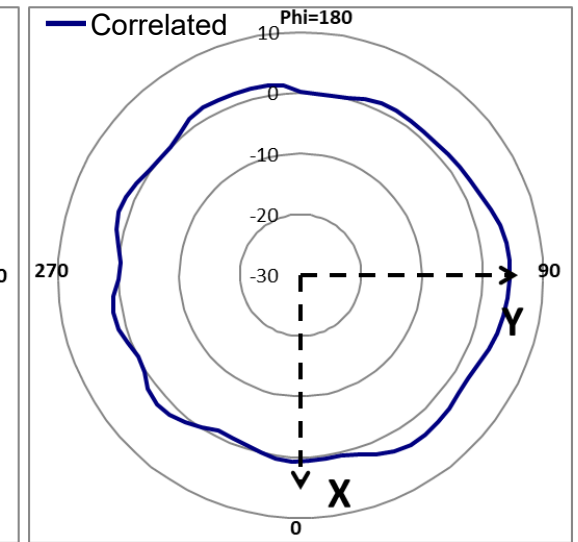
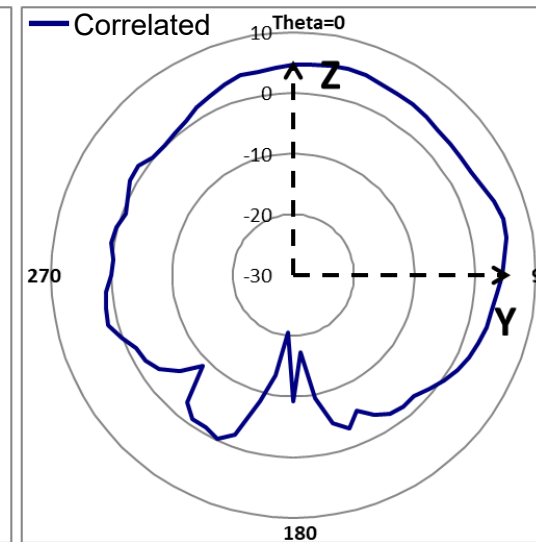
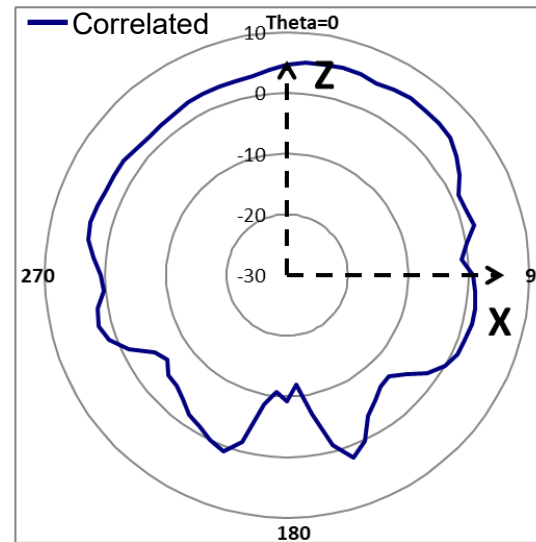
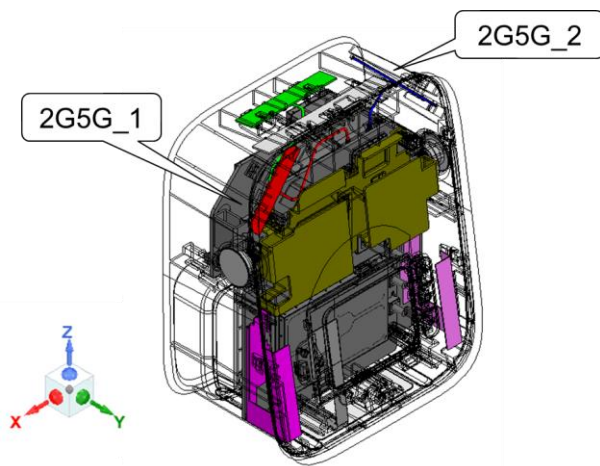
Radiation Pattern @ 2445 MHz



Radiation Pattern @ 5500 MHz



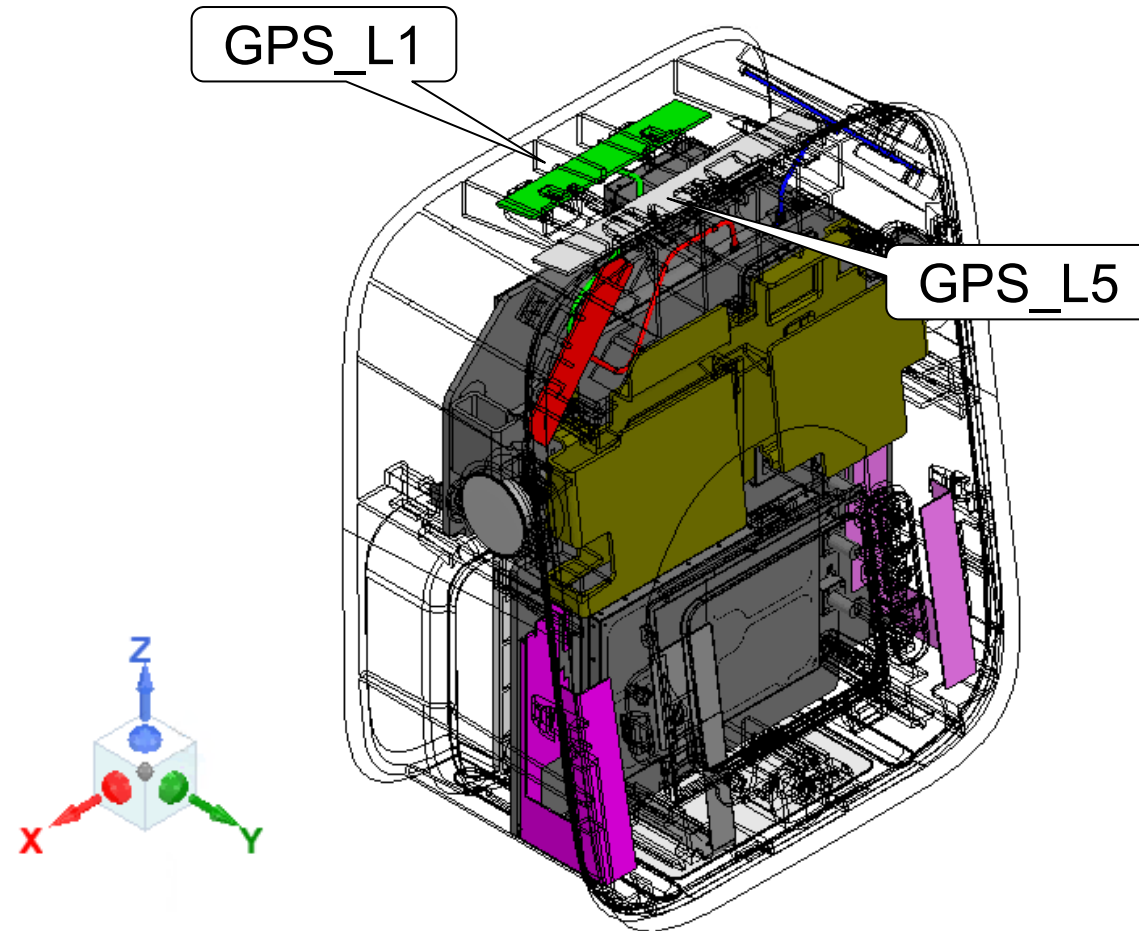
Radiation Pattern @ 5500 MHz



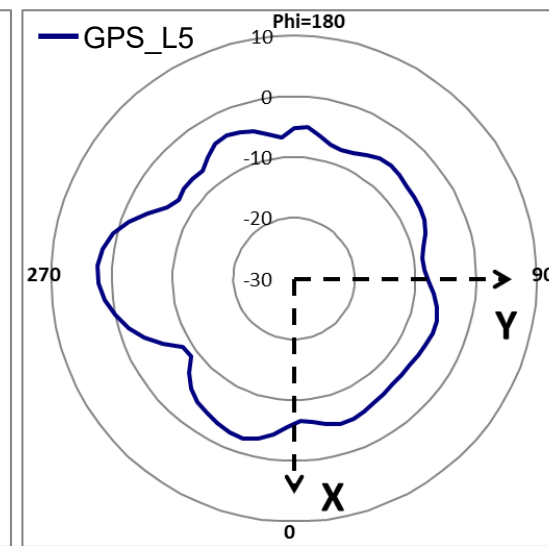
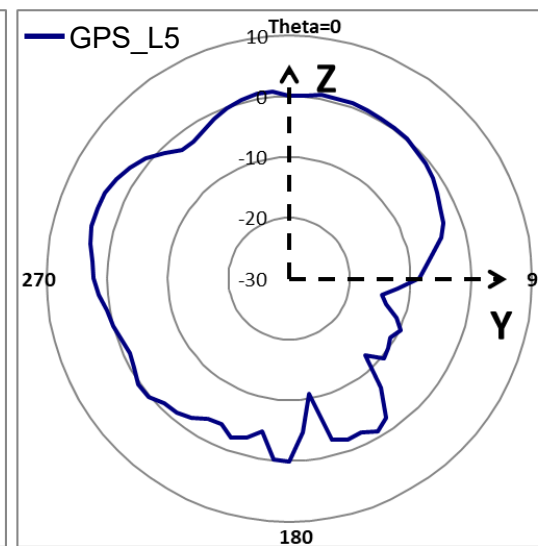
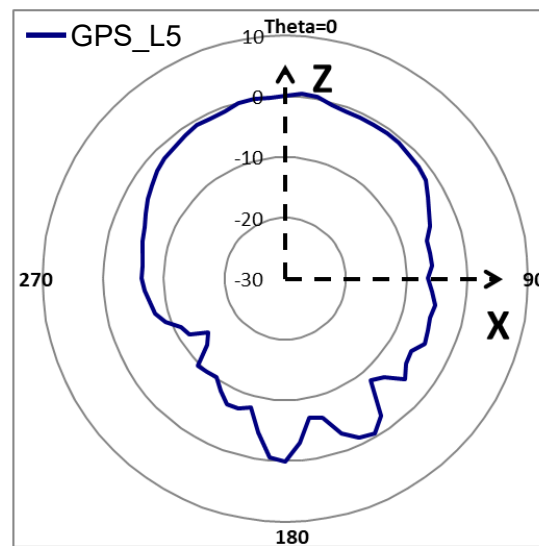
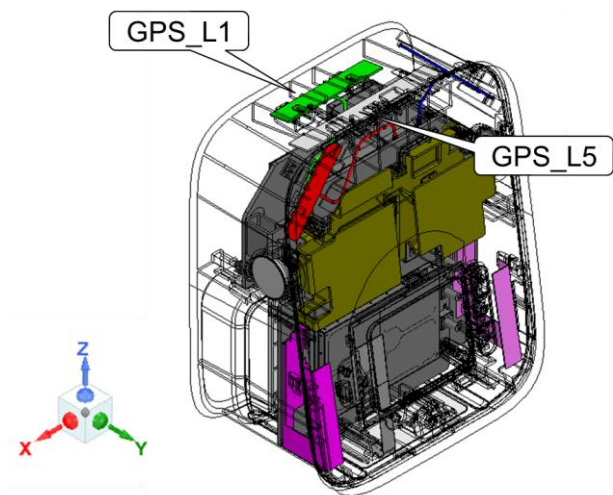
Peak Gain

2.4G	Peak Gain			
Frequency (MHz)	2400	2445	2490	Maximal
2G5G_1	3.69	4.28	4.21	4.28
2G5G_2	3.70	3.99	4.02	4.02
Correlated gain	4.85	5.33	5.36	5.36
5G	Peak Gain			
Frequency (MHz)	5150	5500	5850	Maximal
2G5G_1	5.15	5.21	5.49	5.49
2G5G_2	5.14	4.73	5.15	5.15
Correlated gain	6.97	6.21	6.45	6.97

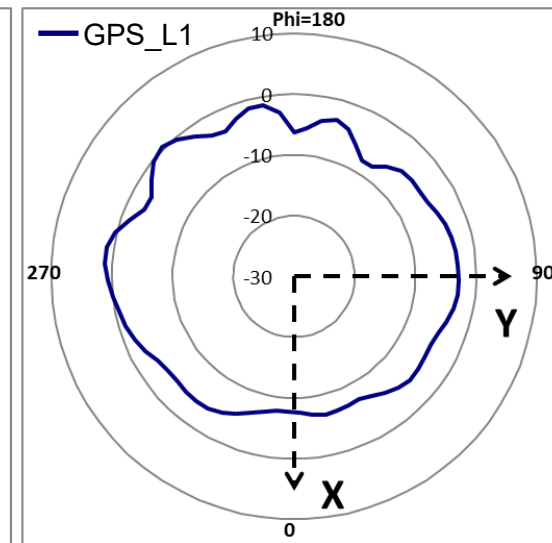
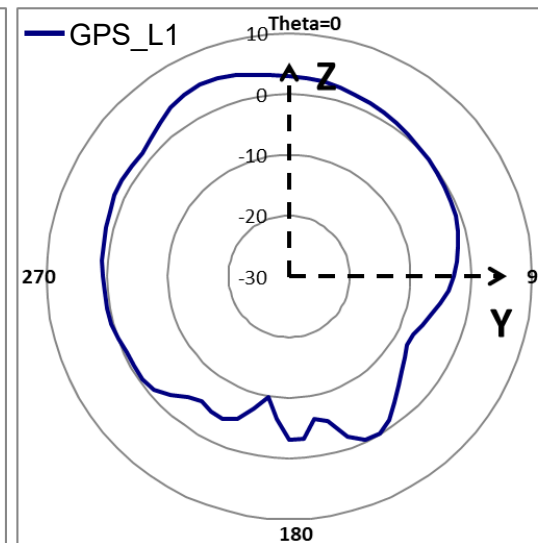
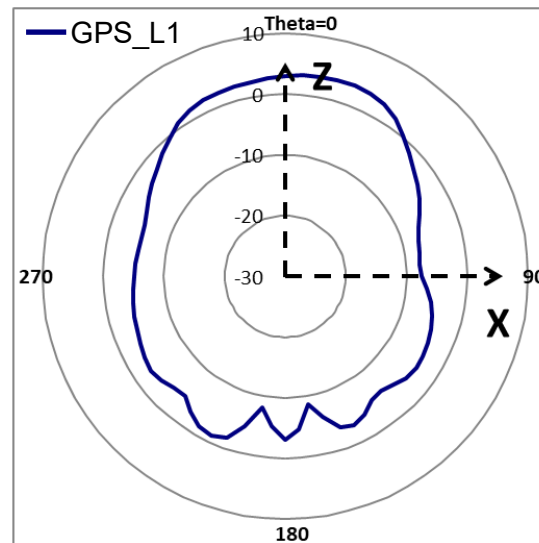
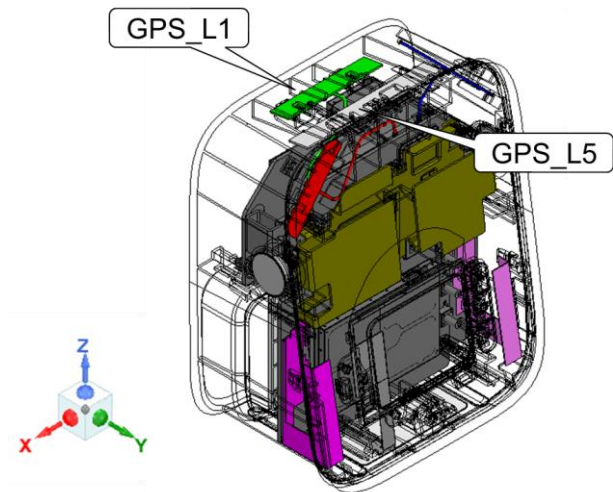
GPS Antennas



Radiation Pattern @ 1189.5 MHz



Radiation Pattern @ 1584.5 MHz



Peak Gain

L5	Peak Gain			
Frequency (MHz)	1164	1189.5	1215	Maximal
GPS_L5	4.02	4.15	3.08	4.15
L1	Peak Gain			
Frequency (MHz)	1559	1584.5	1610	Maximal
GPS_L1	3.43	4.81	3.84	4.81