

UNIVERSAL MICROELECTRONICS CO., LTD.

S6QI

Antenna Gain of LX3



HW: Tommy Chang
Date: 2025.04.18



MAGNETIC



POWER



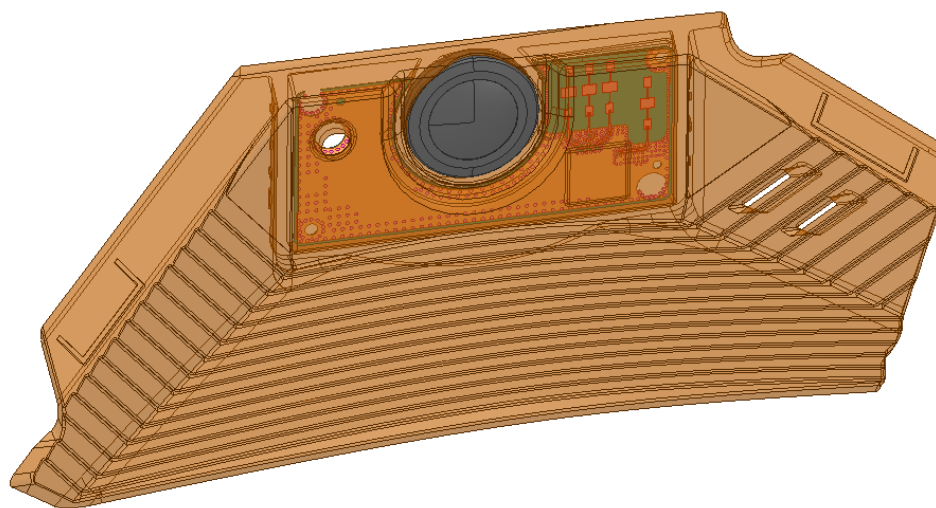
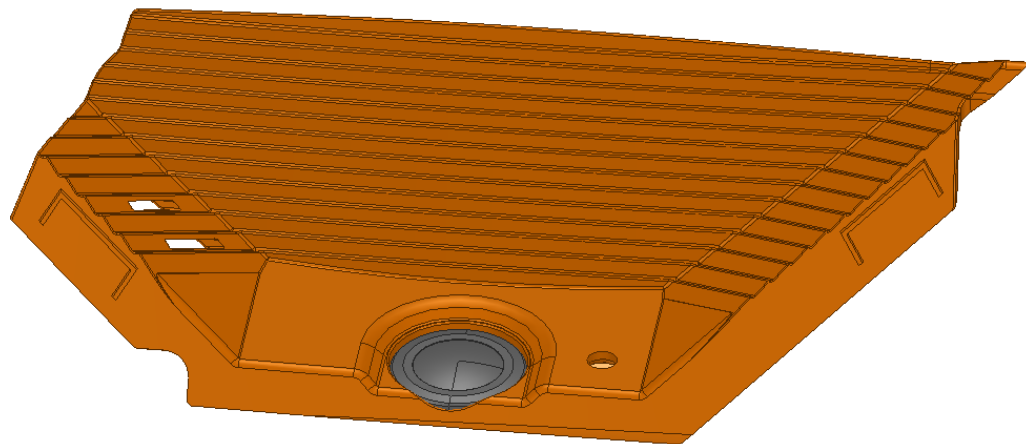
ICP



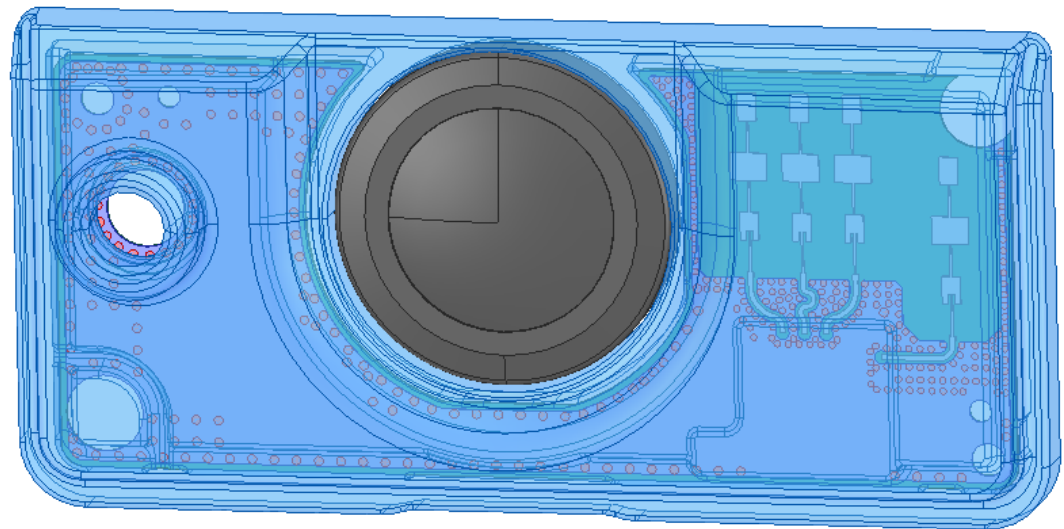
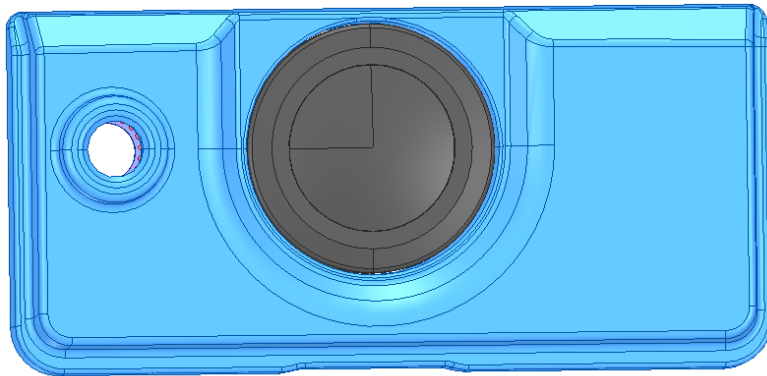
OPTICAL

No.	Type	build by	sim type	Note
1	LX3 FR	MCNEX	Full	Radome material: PP+TD20 (Dk=2.8)
2	LX3 RR	MCNEX	Full	Radome material: PP+TD20 (Dk=2.8)

3D Structure

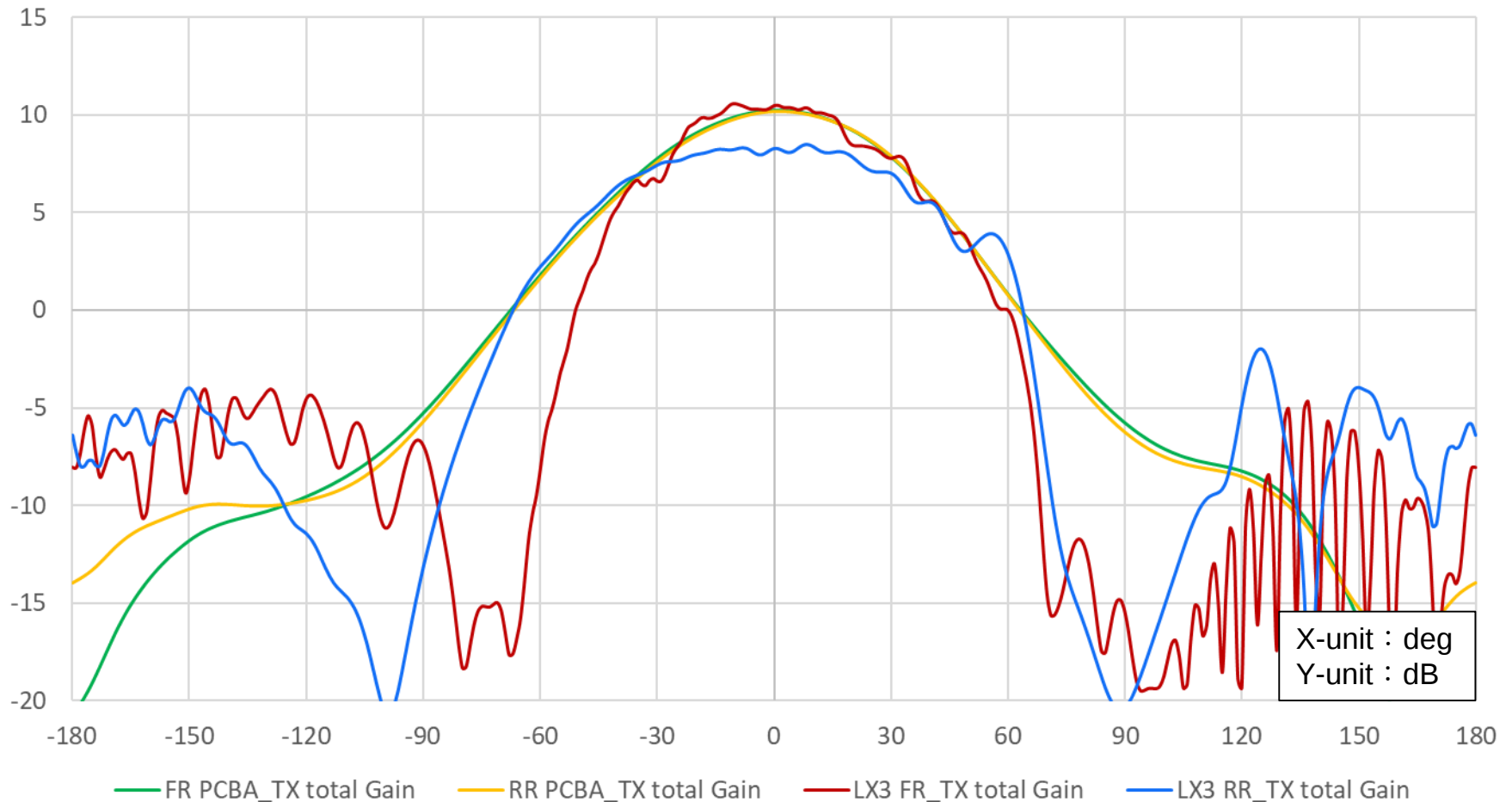


3D Structure



TX Gain

Antenna Gain of LX3 comparison



No.	Type	Sim	TX Gain maximum (dB)	Note
1	LX3 FR	Full	10.59 dB @ Left side 10°	This TX gain is directly derived from HFSS electromagnetic analysis system.
2	LX3 RR	Full	8.46 dB @ Right side 8°	