



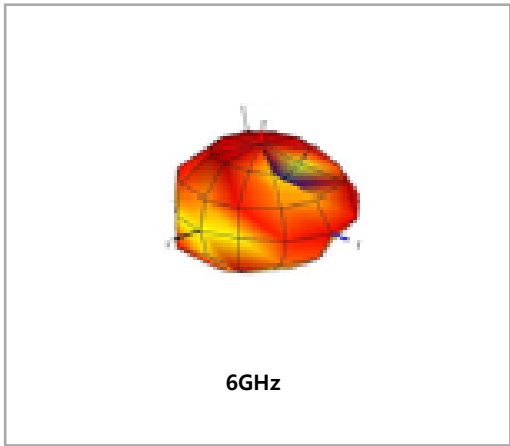
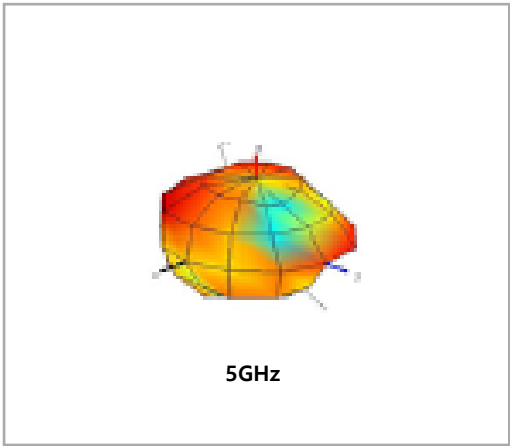
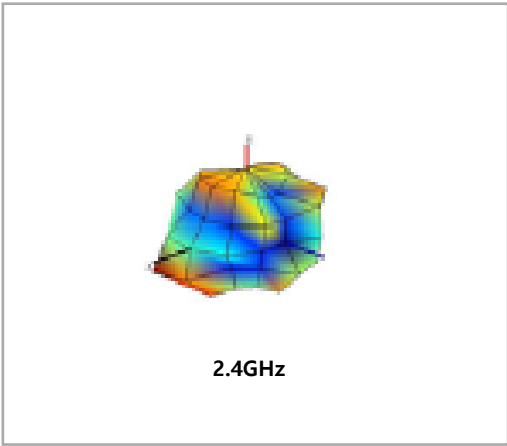
Unlicensed Band Antenna Gain

Model: SM-O200J

FCC ID: A3LSMO200J

BT/WIFI #1_2.4 / 5 / 6 GHz (ANT A)

	SM-O200J
Freq(MHz)	Peak(dBi)
2402	-4.07
2412	-4.79
2437	-5.12
2442	-5.48
2462	-5.01
2472	-5.98
2484	-6.12
2500	-7.03
5150	-7.39
5200	-6.73
5220	-6.82
5250	-6.2
5280	-7.01
5300	-6.28
5350	-6.65
5400	-5.71
5500	-5.77
5600	-6.09
5700	-6.93
5785	-7.12
5800	-7.62
5805	-7.54
5850	-8.03
5885	-8.55
5895	-8.08
5925	-7.79
6025	-7.91
6125	-9.01
6225	-8.02
6325	-6.21
6425	-6.04
6525	-5.5
6625	-6.17
6725	-7.09
6825	-8
6925	-8.2
7025	-9.9
7125	-10.1



Radiation Pattern Test

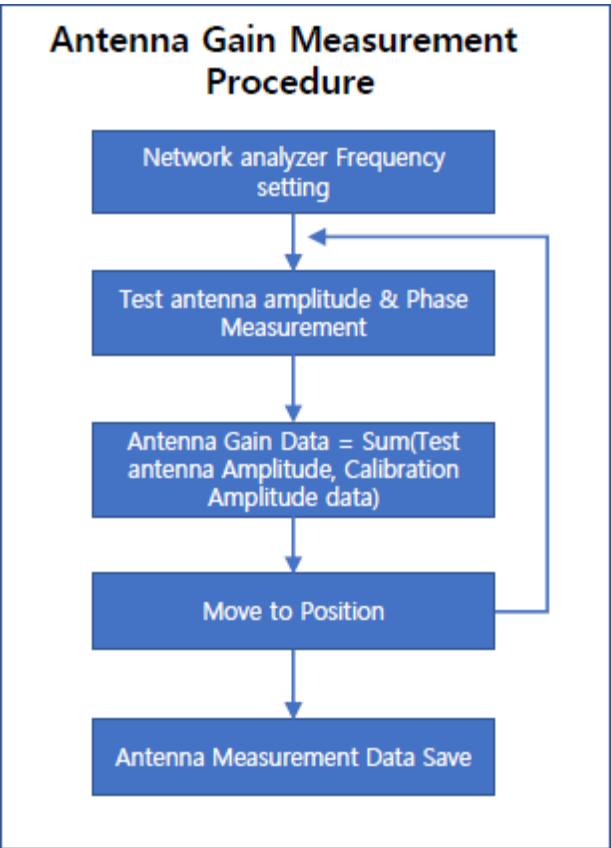
Antennas tested for Gain and Efficiency must be assembled into the enclosure and tested in the fully assembled and operating SM-O200J. The antenna is tested in free space in the anechoic chamber in the H, E1 and, E2 planes. The radiation patterns are measured at the center of transmit and receive bands.



Figure 1: Geometry of Anechoic Chamber for Radiation patterns.

- ✓ Location : Samsung R&D Center R5 bld.
- ✓ Size : 4m x 2.5 x 2.5m (L x W x H)
- ✓ Frequency : 600 MHz -18GHz
- ✓ TX Antenna : 2GHz –18GHz Dual Polarization
- ✓ Quiet zone : 22cm @ 6GHz (Far-Field Length 2m)
- ✓ 2-axis DUT positioner -360°continuous rotation

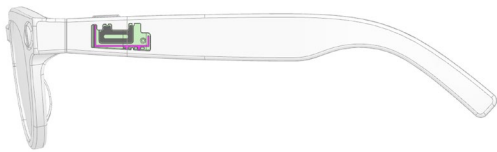
Antenna Gain Measurement Procedure



Detail antenna description

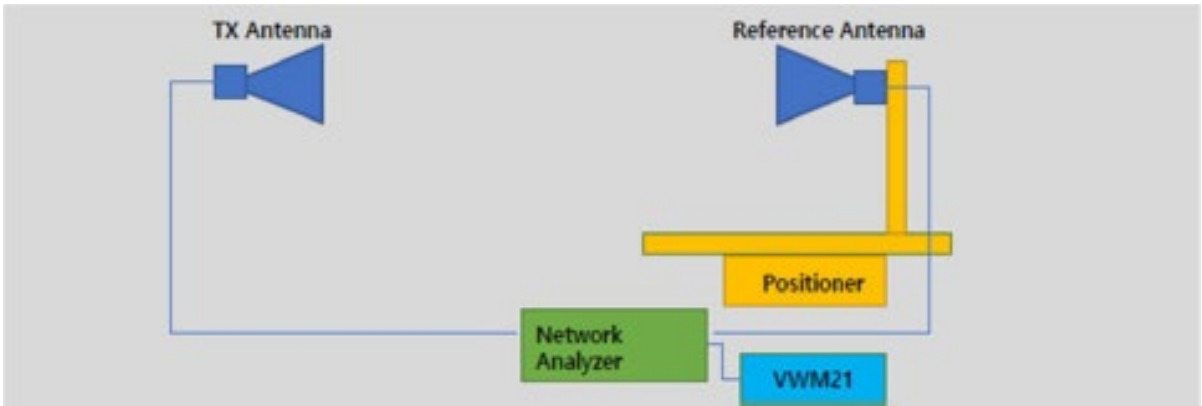


(Front View)



(Side View)

Table of calibrated equipment



Part	Model Name	Specification	Cal date	Serial number
Tx Antenna	QRH-006M-006G	600MHz to 6GHz	Calibrated date :2026.1.8 / Cal. Due : 2028.1.8	-
	QRH-002G-018G	2GHz to 18GHz	Calibrated date :2026.1.8 / Cal. Due : 2028.1.8	-
Reference Antenna	BBHA9120LFA	680MHz to 6500MHz	Calibration Frequency(680MHzto 6GHz) Calibrated date:2026.1.8 / Cal. Due : 2028.1.8	9120LF-365
	BBHA9120C	2GHz to 18GHz	Calibration Frequency(2GHz to 8.5GHz) Calibrated date:2026.1.8 / Cal. Due : 2028.1.8	BBHA9120C#714
Network Analyzer	Agilent 5071B	300KHz to 8.5GHz	Calibrated date :2026.1.8 / Cal. Due : 2028.1.8	C000026236
Measurement Software	VWM21		MTG Visual Wave-Mobile(Ver.2.1)	-

Test dates

2026.05.14

Names of test personnel

Sang-Min Han

Names of commercial test software being used

MTG Visual Wave-Mobile (Ver.2.1)