

SAMSUNG

Unlicensed Band Antenna Gain

Model: SC-54F

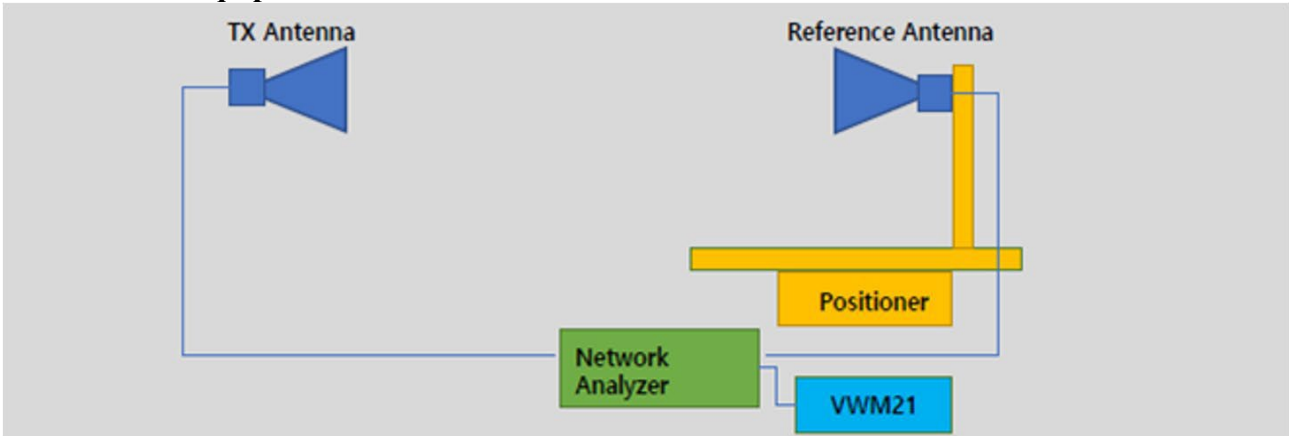
BT/WIFI #1_2.4GHz (SUB4), WIFI #1_5/6GHz (SUB3)

Freq. [Hz]	Peak. [dBi]
2,400,000,000 Hz	-4.75 dBi
2,412,000,000 Hz	-3.94 dBi
2,437,000,000 Hz	-3.37 dBi
2,442,000,000 Hz	-2.65 dBi
2,450,000,000 Hz	-3.70 dBi
2,462,000,000 Hz	-3.24 dBi
2,472,000,000 Hz	-2.77 dBi
2,484,000,000 Hz	-2.25 dBi
2,500,000,000 Hz	-2.29 dBi
5,150,000,000 Hz	-7.27 dBi
5,200,000,000 Hz	-6.77 dBi
5,220,000,000 Hz	-6.75 dBi
5,250,000,000 Hz	-6.54 dBi
5,280,000,000 Hz	-6.58 dBi
5,300,000,000 Hz	-6.45 dBi
5,350,000,000 Hz	-6.35 dBi
5,400,000,000 Hz	-6.39 dBi
5,500,000,000 Hz	-5.38 dBi
5,600,000,000 Hz	-5.31 dBi
5,700,000,000 Hz	-5.31 dBi
5,785,000,000 Hz	-5.27 dBi
5,800,000,000 Hz	-5.32 dBi
5,805,000,000 Hz	-5.36 dBi
5,850,000,000 Hz	-6.17 dBi
5,885,000,000 Hz	-6.12 dBi
5,895,000,000 Hz	-6.19 dBi

BT/WIFI #2_2.4GHz (SUB6), WIFI #2_5/6GHz (SUB5)

Freq. [Hz]	Peak. [dBi]
2,400,000,000 Hz	-3.48 dBi
2,412,000,000 Hz	-3.36 dBi
2,437,000,000 Hz	-3.37 dBi
2,442,000,000 Hz	-3.25 dBi
2,450,000,000 Hz	-3.51 dBi
2,462,000,000 Hz	-3.63 dBi
2,472,000,000 Hz	-4.02 dBi
2,484,000,000 Hz	-4.59 dBi
2,500,000,000 Hz	-4.94 dBi
5,150,000,000 Hz	-5.76 dBi
5,200,000,000 Hz	-5.81 dBi
5,220,000,000 Hz	-5.96 dBi
5,250,000,000 Hz	-5.90 dBi
5,280,000,000 Hz	-5.15 dBi
5,300,000,000 Hz	-5.17 dBi
5,350,000,000 Hz	-5.97 dBi
5,400,000,000 Hz	-4.80 dBi
5,500,000,000 Hz	-5.28 dBi
5,600,000,000 Hz	-5.71 dBi
5,700,000,000 Hz	-4.76 dBi
5,785,000,000 Hz	-5.12 dBi
5,800,000,000 Hz	-4.71 dBi
5,805,000,000 Hz	-5.20 dBi
5,850,000,000 Hz	-5.51 dBi
5,885,000,000 Hz	-5.76 dBi
5,895,000,000 Hz	-6.45 dBi

Table of calibrated equipment



Part	Model Name	Specification	Cal date	Serial number
Tx Antenna	QRH-006M-006G	600MHz to 6GHz	Calibrated date :2023.8.8 / Cal. Due : 2024.12.28	-
	QRH-002G-018G	2GHz to 18GHz	Calibrated date :2023.8.8 / Cal. Due : 2024.12.28	-
Reference Antenna	BBHA9120LFA	680MHz to 6500MHz	Calibration Frequency(680MHzto 6GHz) Calibrated date:2023.8.8 / Cal. Due : 2024.12.28	9120LF-365
	BBHA9120C	2GHz to 18GHz	Calibration Frequency(2GHz to 8.5GHz) Calibrated date:2023.8.8 / Cal. Due : 2024.12.28	BBHA9120C#714
Network Analyzer	Agilent 5071B	300KHz to 8.5GHz	Calibrated date :2023.8.8 / Cal. Due : 2024.12.28	C000026236
Measurement Software	VWM21		MTG Visual Wave-Mobile(Ver.2.1)	-

Test dates

2024.06.13

Names of test personnel

Youngsung Lee

Names of commercial test software being used

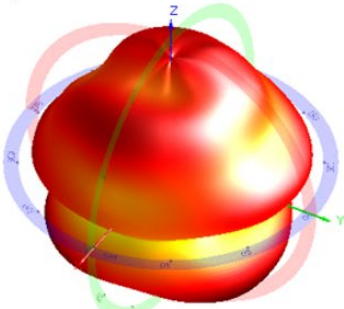
MTG Visual Wave-Mobile (Ver.2.1)

Test setup photos

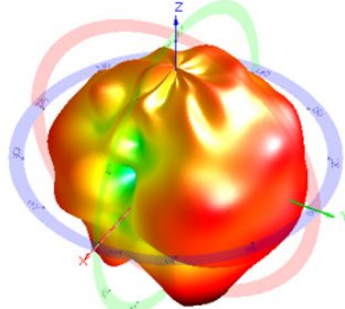
The antenna gain report test setup photos includes pictures of the measurement setup.

Radiation plots for max gain plane (3D)

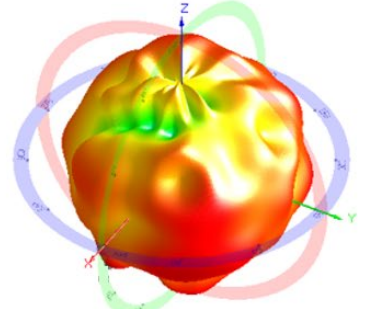
WiFi-1



2.5G

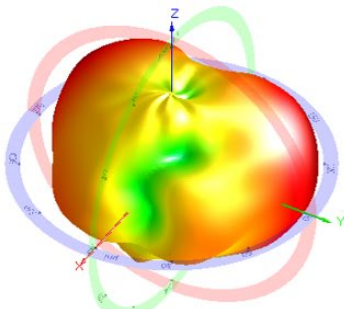


5G

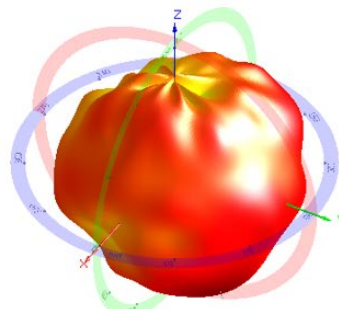


6G

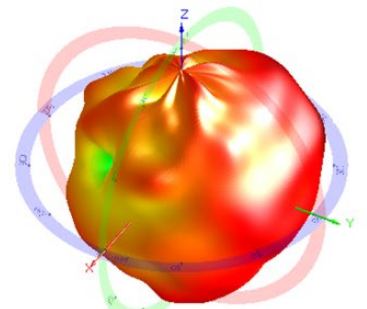
WiFi-2



2.5G



5G



6G