

TEST REPORT

FCC MPE Test for MT6433-77A
Class II Permissive Change

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2605-FC006-R1

DATE OF ISSUE
May 14, 2026

Tested by
Kyung Soo Kang



Technical Manager
Jong Seok Lee



HCT CO., LTD.
BongJai Huh
BongJai Huh / CEO

**HCT CO.,LTD.**

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT

REPORT NO.

HCT-RF-2605-FC006-R1

DATE OF ISSUE

May 14, 2026

Applicant

SAMSUNG Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Product Name

MMU(MT6433)

Model Name

MT6433-77A

FCC ID

A3LMT6433-77A

Date of Test

April 27, 2026 ~ May 11, 2026

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

Test Standard Used

CFR 47 Part 2.1091

Test Results

PASS

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	May 11, 2026	Initial Release
1	May 14, 2026	Revised the test results.

Notice

Content

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

RF Exposure Statement

1. LIMITS

According to § 1.1310 and § 2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	#)(100)	30
1.34 - 30.....	824/f	2.19/f	#)(180/f ²)	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....			f/1500	30
1500 - 100.000.....			1.0	30

F = frequency in MHz

= Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. RESULTS

(64 Port) n77 5G NR 100 MHz 1 Carrier + n77 5G NR 40 MHz 1 Carrier [2 Carrier]

Common Beam

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	19.80	dBi
Antenna gain (numeric)	95.50	-
Attenuation	0.00	dB
Power density at prediction frequency (S)	0.1852	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

Asymmetric PSD_User-specific Beam_Max. Att.

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	27.10	dBi
Antenna gain (numeric)	512.86	-
Attenuation	1.393	dB
Power density at prediction frequency (S)	0.7216	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

Same PSD_User-specific Beam_Max. Att.

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	27.10	dBi
Antenna gain (numeric)	512.86	-
Attenuation	0.901	dB
Power density at prediction frequency (S)	0.8082	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

User-specific Beam_Min. Att.

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	27.10	dBi
Antenna gain (numeric)	512.86	-
Attenuation	0.000	dB
Power density at prediction frequency (S)	0.9945	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

(64 Port) n77 5G NR 100 MHz 1 Carrier + n77 5G NR 100 MHz 1 Carrier [2 Carrier]

Common Beam

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	19.80	dBi
Antenna gain (numeric)	95.50	-
Attenuation	0.00	dB
Power density at prediction frequency (S)	0.1852	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

Asymmetric PSD_User-specific Beam_Max. Att.

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	27.10	dBi
Antenna gain (numeric)	512.86	-
Attenuation	1.393	dB
Power density at prediction frequency (S)	0.7216	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

User-specific Beam_Min. Att.

Max output power at antenna input terminal	57.31	dBm
Max output power at antenna input terminal	538 269.78	mW
Prediction distance	4 700.00	cm
Prediction frequency	3 700.00	MHz
Antenna gain (typical)	27.10	dBi
Antenna gain (numeric)	512.86	-
Attenuation	0.000	dB
Power density at prediction frequency (S)	0.9945	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

Note:

Same PSD

Category	Peak Gain	EIRP Limit	Attenuation (dB)			
			Bandwidth (MHz)			
			100 + 40	100 + 60	100 + 80	100 + 100
Common Beam	19.8 dBi	1640 W/MHz	0	0	0	0
		3280 W/MHz	0	0	0	0
User-specific Beam	27.1 dBi	1640 W/MHz	0.901	0.321	0	0
		3280 W/MHz	0	0	0	0

Asymmetric PSD

Category	Peak Gain	EIRP Limit	Attenuation (dB)			
			Bandwidth (MHz)			
			100 + 40	100 + 60	100 + 80	100 + 100
Common Beam	19.8 dBi	1640 W/MHz	0	0	0	0
		3280 W/MHz	0	0	0	0
User-specific Beam	27.1 dBi	1640 W/MHz	1.393	1.393	1.393	1.393
		3280 W/MHz	0	0	0	0

- The gain of the user-specific beam is higher than that of the common beam; therefore, the user-specific beam is controlled through beamforming functionality.
- Attenuation values are applied per OBW based on each gain condition.
- The information for the 100 + 60 and 100 + 80 carrier aggregation modes was not formally reported in the test report, but was included for reference purposes only.
- The user-specific beam, which has the highest antenna gain among the supported beam configurations, was applied for testing as the worst-case condition.