

TEST REPORT

FCC MPE Test for EC25-A
Certification

APPLICANT
D&Shine Co. Ltd.

REPORT NO.
HCT-RF-2604-FC060

DATE OF ISSUE
April 29, 2026

Tested by
Jung Ki Lim



Technical Manager
Kwon Jeong



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

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Applicant D&Shine Co. Ltd.
B-B134, 140 Tongil-ro, Deogyang-gu, Goyang-si, Gyeonggi-do, 10594,
Republic of Korea

Product Name LTE Module
Model Name EC25-A

Date of Test April 17, 2026 ~ April 28, 2026

FCC ID 2BUPW-EC25A

Location of Test ☒ Permanent Testing Lab ☐ On Site Testing
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC Classification: PCB Licensed Transmitter (PCB)

Test Standard Used FCC Rule Part(s) : § 1.1310, § 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	April 29, 2026	Initial Release

Notice

Content

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)

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. Limit

According to § 1.1310, § 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 to the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

3. RESULTS

3.1 LTE Band

- LTE Band 2-

Max output power at antenna input terminal	18.00	dBm
Max output power at antenna input terminal	63.10	mW
Prediction distance	20.00	cm
Prediction frequency	1850.7 ~1900.0	MHz
Antenna gain (typical)	3.10	dBi
Antenna gain (numeric)	2.042	-
Power density at prediction frequency (S)	0.0256	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- LTE Band 4 -

Max output power at antenna input terminal	18.00	dBm
Max output power at antenna input terminal	63.10	mW
Prediction distance	20.00	cm
Prediction frequency	1710.7 ~1745.0	MHz
Antenna gain (typical)	3.50	dBi
Antenna gain (numeric)	2.239	-
Power density at prediction frequency (S)	0.0281	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- LTE Band 12 -

Max output power at antenna input terminal	20.00	dBm
Max output power at antenna input terminal	100.00	mW
Prediction distance	20.00	cm
Prediction frequency	699.7~711.0	MHz
Antenna gain (typical)	0.70	dBi
Antenna gain (numeric)	1.175	-
Power density at prediction frequency (S)	0.0234	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4665	mW/cm ²