

TEST REPORT

FCC MPE Test for eROU_4040L1_X
Certification

APPLICANT
SOLiD, Inc.

REPORT NO.
HCT-RF-2206-FC024

DATE OF ISSUE
June 17, 2022

Tested by
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TEST REPORT

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eROU_4040L1_X

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Additional Model

eROU_4040L2_X, eROU_4040L1_N, eROU_4040L2_N

Applicant

SOLiD, Inc.

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Gyeonggi-do, 463-400, South Korea

**Eut Type
Model Name**

DAS
eROU_4040L1_X

FCC ID

W6UER4040

The result shown in this test report refer only to the sample(s) tested unless
otherwise stated.

This test results were applied only to the test methods required by the
standard.

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 17, 2022	Initial Release

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.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

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. Result

[External Antenna]

- C-Band 5G NR 20 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.01	dBm
MIMO Max Peak output Power at antenna input terminal	632.41	mW
Prediction distance	60.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.7006	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- C-Band 5G NR 40 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.01	dBm
MIMO Max Peak output Power at antenna input terminal	632.41	mW
Prediction distance	60.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.7006	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- C-Band 5G NR 60 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.01	dBm
MIMO Max Peak output Power at antenna input terminal	632.41	mW
Prediction distance	60.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.7006	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- C-Band 5G NR 80 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.01	dBm
MIMO Max Peak output Power at antenna input terminal	632.41	mW
Prediction distance	60.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.7006	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- C-Band 5G NR 100 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.01	dBm
MIMO Max Peak output Power at antenna input terminal	632.41	mW
Prediction distance	60.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.7006	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²