

TEST REPORT

FCC MPE Test for N20-HRDU_A_1900P Certification

APPLICANT SOLiD, Inc.

REPORT NO. HCT-RF-2005-FC012

DATE OF ISSUE May 15, 2020



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TEST REPORT FCC MPE Test for N20-HRDU_A_1900P

REPORT NO. HCT-RF-2005-FC012 DATE OF ISSUE 15 May 2020 Additional Model

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Applicant	SOLiD, Inc. 10, 9th Floor, SOLiD Space, Pangyoyeok-ro 220, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400, South Korea
EUT Type Model Name	DAS N20-HRDU_A_1900P
FCC ID	W6UNHA1900P

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.

Tested byKyung Soo Kang

Technical ManagerJong Seok Lee

(signature)

(signature)

HCT CO., LTD.

Soo Chon Lee

SooChan Lee

7 CEO

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	May 15, 2020	Initial Release

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

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.

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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	Electric field Strength (V/m)	Magneticfield	Powerdensity	Averagingtime
(MHz)		Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30

F = frequency in MHz

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

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^{* =} Plane-wave equivalent power density



- PCS – GSM (Downlink)

Max Peak output Power at antenna input terminal	44.000	dBm
Max Peak output Power at antenna input terminal	25118.864	mW
Prediction distance	500.000	cm
Prediction frequency	1939.26	MHz
Antenna Gain(typical)	17.000	dBi
Antenna Gain(numeric)	50.119	-
Power density at prediction frequency(S)	0.4007	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- PCS – CDMA (Downlink)

Max Peak output Power at antenna input terminal	44.000	dBm
Max Peak output Power at antenna input terminal	25118.864	mW
Prediction distance	500.000	cm
Prediction frequency	1939.26	MHz
Antenna Gain(typical)	17.000	dBi
Antenna Gain(numeric)	50.119	-
Power density at prediction frequency(S)	0.4007	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

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- PCS – WCDMA (Downlink)

Max Peak output Power at antenna input terminal	44.000	dBm
Max Peak output Power at antenna input terminal	25118.864	mW
Prediction distance	500.000	cm
Prediction frequency	1939.26	MHz
Antenna Gain(typical)	17.000	dBi
Antenna Gain(numeric)	50.119	-
Power density at prediction frequency(S)	0.4007	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm²

- PCS – LTE 5 MHz (Downlink)

Max Peak output Power at antenna input terminal	44.000	dBm
Max Peak output Power at antenna input terminal	25118.864	mW
Prediction distance	500.000	cm
Prediction frequency	1939.26	MHz
Antenna Gain(typical)	17.000	dBi
Antenna Gain(numeric)	50.119	-
Power density at prediction frequency(S)	0.4007	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

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- PCS – LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	44.000	dBm
Max Peak output Power at antenna input terminal	25118.864	mW
Prediction distance	500.000	cm
Prediction frequency	1939.26	MHz
Antenna Gain(typical)	17.000	dBi
Antenna Gain(numeric)	50.119	-
Power density at prediction frequency(S)	0.4007	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm²

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