

TEST REPORT

FCC MPE Test for SOLiD BARS HERU
Certification

APPLICANT
SOLiD, Inc.

REPORT NO.
HCT-RF-2507-FC097-R1

DATE OF ISSUE
November 26, 2025

Tested by
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Applicant**SOLiD,Inc.**

10, 9th Floor, SOLiD Space, 220, Pangyoyeok-ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Republic of Korea, 13493

Product Name

SOLiD BARS

Model Name

SOLiD BARS HERU

FCC ID

W6UBARS-HERU

Date of Test

March 20, 2025 ~ July 14, 2025

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	July 23, 2025	Initial Release
1	November 26, 2025	Revised the results to account for the simultaneous operation of the Wi-Fi and LTE modules.

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

3.1 MPE calculation for standalone operations

[HE_Uplink]

- Lower 700 MHz –

Max output power at antenna input terminal	24.00	dBm
Max output power at antenna input terminal	251.19	mW
Prediction distance	50.00	cm
Prediction frequency	698.00	MHz
Antenna gain (typical)	12.00	dBi
Antenna gain (numeric)	15.85	-
Power density at prediction frequency (S)	0.1267	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4653	mW/cm ²

- Upper 700 MHz –

Max output power at antenna input terminal	24.00	dBm
Max output power at antenna input terminal	251.19	mW
Prediction distance	50.00	cm
Prediction frequency	776.00	MHz
Antenna gain (typical)	12.00	dBi
Antenna gain (numeric)	15.85	-
Power density at prediction frequency (S)	0.1267	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5173	mW/cm ²

- Cellular –

Max output power at antenna input terminal	24.00	dBm
Max output power at antenna input terminal	251.19	mW
Prediction distance	50.00	cm
Prediction frequency	824.00	MHz
Antenna gain (typical)	12.00	dBi
Antenna gain (numeric)	15.85	-
Power density at prediction frequency (S)	0.1267	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5493	mW/cm ²

- AWS-1 -

Max output Power at antenna input terminal	24.00	dBm
Max output Power at antenna input terminal	251.19	mW
Prediction distance	50.00	cm
Prediction frequency	1710.00	MHz
Antenna Gain(typical)	14.00	dBi
Antenna Gain(numeric)	25.12	-
Power density at prediction frequency (S)	0.2008	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- Broadband PCS -

Max output Power at antenna input terminal	24.00	dBm
Max output Power at antenna input terminal	251.19	mW
Prediction distance	50.00	cm
Prediction frequency	1850.00	MHz
Antenna Gain(typical)	14.00	dBi
Antenna Gain(numeric)	25.12	-
Power density at prediction frequency (S)	0.2008	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

The result tables for the Wi-Fi module(DTS band) and LTE module(Band 26) were added to calculate the sum of MPE ratios for HE.

- DTS -

Max output Power at antenna input terminal	3.00	dBm
Max output Power at antenna input terminal	2.00	mW
Prediction distance	50.00	cm
Prediction frequency	2412 – 2462	MHz
Antenna Gain(typical)	2.90	dBi
Antenna Gain(numeric)	1.95	-
Power density at prediction frequency (S)	0.0001	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- Band 26 -

Max output Power at antenna input terminal	25.00	dBm
Max output Power at antenna input terminal	316.23	mW
Prediction distance	50.00	cm
Prediction frequency	814.00	MHz
Antenna Gain(typical)	0.300	dBi
Antenna Gain(numeric)	1.07	-
Power density at prediction frequency (S)	0.0108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5427	mW/cm ²

Sum of MPE Ratios

ANT	Band	MPE Ratio	SUM	
1	Upper 700 MHz	0.2450	0.8973	≤ 1
	Cellular	0.2307		
	AWS-1	0.2008		
	Broadband PCS	0.2008		
Wi-Fi	DTS	0.0001	0.8973	≤ 1
	Band 26	0.0199		
2, 3	Lower 700 MHz	0.2723	0.9247	≤ 1
	Cellular	0.2307		
	AWS-1	0.2008		
	Broadband PCS	0.2008		
Wi-Fi	DTS	0.0001	0.9247	≤ 1
	Band 26	0.0199		

Notes:

1. The result of each band was applied to the worst value.
2. The results reflect calculations with the certified Wi-Fi (WLAN) module and LTE module operating simultaneously.
3. MPE ratios are calculated as

$$[(\text{Power density1} / \text{MPE Limit}) + [(\text{Power density2} / \text{MPE Limit}) + \dots] \leq 1$$

[RU_Downlink]

- Lower 700 MHz –

Max output power at antenna input terminal	10.00	dBm
Max output power at antenna input terminal	10.00	mW
Prediction distance	20.00	cm
Prediction frequency	728.00	MHz
Antenna gain (typical)	2.00	dBi
Antenna gain (numeric)	1.58	-
Power density at prediction frequency (S)	0.0032	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4853	mW/cm ²

- Upper 700 MHz –

Max output power at antenna input terminal	10.00	dBm
Max output power at antenna input terminal	10.00	mW
Prediction distance	20.00	cm
Prediction frequency	746.00	MHz
Antenna gain (typical)	2.00	dBi
Antenna gain (numeric)	1.58	-
Power density at prediction frequency (S)	0.0032	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4973	mW/cm ²

- Cellular –

Max output power at antenna input terminal	10.00	dBm
Max output power at antenna input terminal	10.00	mW
Prediction distance	20.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	2.00	dBi
Antenna gain (numeric)	1.58	-
Power density at prediction frequency (S)	0.0032	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm ²

- AWS-1 -

Max output Power at antenna input terminal	10.00	dBm
Max output Power at antenna input terminal	10.00	mW
Prediction distance	20.00	cm
Prediction frequency	2110.00	MHz
Antenna Gain(typical)	5.00	dBi
Antenna Gain(numeric)	3.16	-
Power density at prediction frequency (S)	0.0063	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- Broadband PCS -

Max output Power at antenna input terminal	10.00	dBm
Max output Power at antenna input terminal	10.00	mW
Prediction distance	20.00	cm
Prediction frequency	1930.00	MHz
Antenna Gain(typical)	5.00	dBi
Antenna Gain(numeric)	3.16	-
Power density at prediction frequency (S)	0.0063	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

Sum of MPE Ratio

ANT	Band	MPE Ratio	SUM	
1	Upper 700 MHz	0.0063	0.0244	≤ 1
	Cellular	0.0054		
	AWS-1	0.0063		
	Broadband PCS	0.0063		
2, 3	Lower 700 MHz	0.0065	0.0245	≤ 1
	Cellular	0.0054		
	AWS-1	0.0063		
	Broadband PCS	0.0063		

Notes:

- The result of each band was applied to the worst value.
- MPE ratios are calculated as

$$[(\text{Power density}_1 / \text{MPE Limit}) + [(\text{Power density}_2 / \text{MPE Limit}) + \dots] \leq 1$$