

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

Square Register

MODEL NUMBER: SPS1-01

FCC ID: 2AF3K-SPS1

REPORT NUMBER: 4789598114.1-5

ISSUE DATE: October 15, 2020

Prepared for

Square, Inc. 1455 Market St, Suite 600, San Francisco, California, United States 94103

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	10/15/2020	Initial Issue	

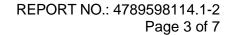




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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Square, Inc.

Address: 1455 Market St, Suite 600, San Francisco, California, United

States 94103

Manufacturer Information

Company Name: Square, Inc.

Address: 1455 Market St, Suite 600, San Francisco, California, United

States 94103

EUT Information

EUT Name: Square Register

Model: Square Register Model: SPS1-01

Brand: SQUARE

Sample Received Date: August 17, 2020

Sample Status: Normal Sample ID: 2809002

Date of Tested: August 17~ September 15, 2020

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
FCC 47CFR§2.1091	PASS			

Prepared By:

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with
	Industry Canada. The Company Number is 21320.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.



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4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ², H ² or S (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

CALCULATION METHOD

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

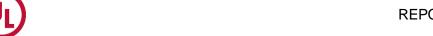
Where:

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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CALCULATED RESULTS

BT Mode						
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result	
MHz	dBm	mW	mW/cm ²	mW/cm ²		
2402-2480	10.0	10.0	0.00350	1.0	Complies	

2.4G Mode -SISO						
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result	
MHz	dBm	mW	mW/cm2	mW/cm2		
2412-2462	21.0	125.9	0.0441	1.0	Complies	

2.4G Mode -MIMO						
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result	
MHz	dBm	mW	mW/cm2	mW/cm2	1	
2412-2462	18.0	63.1	0.0323	1.0	Complies	

5G Mode							
Frequency	Frequency Output Output Power Power Density Power Density		Power Density Limit	Test Result			
MHz	dBm	mW	mW/cm2	mW/cm2			
5180-5240, 5260-5320, 5500-5700, 5745-5825.	21.00	125.89	0.104	1.0	Complies		

Note:

- 1. The Power comes from report operation description.
- 2. The EUT cannot support simultaneous emission.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 4. Calculate by WORST-CASE mode

END OF REPORT