Global EMC Inc. Labs EMC & RF Test Report

As per

FCC Part 15 Subpart C:2015

&

RSS 210 Issue 8:2010
Unlicensed Intentional Radiators

on the

S6 Mobile Credit Card Reader (RFID)

Raymond Lee Au, B.Eng

Project Engineer Global EMC Inc. 11 Gordon Collins Dr. Gormley, ON Canada, L0H 1G0 Ph: (905) 883-8189 Testing produced for



See *Appendix A* for full customer & EUT details.









Client	Square Inc.
Product	S6 Mobile Credit Card Reader (RFID)
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010



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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Report Scope

This report addresses the EMC testing and test results of the S6 Mobile Credit Card Reader from Square Inc. This unit is herein referred to as EUT (Equipment Under Test). Testing is performed at Global EMC Labs.

The EUT was tested for compliance against the following standards:

RSS 210 Issue 8:2010 FCC Part 15 Subpart C:2015

Test procedures, results, justifications, and engineering considerations, if any, follow later in this report.

The results contained in this report relate only to the item(s) tested.

This report does not imply product endorsement by A2LA or any other accreditation agency, any government, or Global EMC Inc.

Opinions/interpretations expressed in this report, if any, are outside the scope of Global EMC Inc accreditation. Any opinions expressed do not necessarily reflect the opinions of Global EMC Inc, unless otherwise stated.

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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Summary

The results contained in this report relate only to the item(s) tested.

EUT FCC Certification #, FCC ID:	2AF3K-1SQHW
EUT Passed all tests performed.	Yes (see test results summary)
Tests conducted by	Raymond Lee Au

Client	Square Inc.	CLODATE
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUTNU

Test Results Summary

Standard/Method	Description	Class/Limit	Result
FCC 15.203	Antenna Requirement	Unique	Pass
FCC 15.205 RSS-Gen (Table 6)	Restricted Bands for intentional operation	Quasi-Peak Average	Pass
FCC 15.207 RSS-Gen (Table 3)	Power Line Conducted Emissions	Quasi-Peak Average	Pass
FCC 15.209 RSS-Gen (Tables 4.5)	Spurious Radiated Emissions	Quasi-Peak Average	Pass
FCC 15.225(a – d)	Fundamental Field Strength	Various 13.110 – 14.010 MHz	Pass
FCC 15.225(e)	Frequency Stability at Extreme Temperatures	-20°C - +50°C	Pass
FCC 15.225(e)	Frequency Stability at Extreme Voltages	85% to 115% of rated.	Pass
Overall Result			PASS

See the following *Notes, Justifications, or Deviations* section for important information regarding these tests.

All tests were performed by Raymond Lee Au.

If the product as tested or otherwise complies with the specification, the EUT is deemed to comply with the requirement and is deemed a 'PASS' grade. If not 'FAIL' grade will be issued. Note that 'PASS' / 'FAIL' grade is independent of any measurement uncertainties.

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUINU

Notes, Justifications, or Deviations

The following justifications for tests not performed or deviations from the above listed specifications apply:

The EUT is a portable credit card reader with BLE (2.402 – 2.480 MHz) and NFC RFID (13.56 MHz) capabilities. This report deals with the NFC / RFID characteristics. See report # GEMC-FCC-23230AR1 for the report regarding the BLE, and the device as a whole.

For the antenna requirement specified in FCC 15.203, the NFC antenna is mounted on the PCB, and is sealed within the unit's enclosure. It is not meant to be replicable by the user, nor is it accessible.

The EUT is rated to be operated at a minimum of 0°C. The RFID transmitter does not operate or transmit at -20°C. Therefore, frequency stability test results are available down to -10°C only, as that is the lowest temperature at which the 13.56 MHz transmission is operational.

The EUT was tested in the three orthogonal axes. The worst case results are obtained with the EUT upright. Worst case results are presented for all tests.

See separate RF Exposure Exhibit for this unit regarding the permissible RF exposure levels.

For the Restricted Bands of operation, the 15.225 transmitter is designed to operate at 13.56 MHz.

Client	Square Inc.	CLODATE
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUINU

Applicable Standards, Specifications and Methods

ANSI C63.4:2009	- Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C63.10:2009	- American national standard for testing unlicensed wireless devices
CFR 47 FCC 15:2015	5 - Code of Federal Regulations – Radio Frequency Devices
CISPR 22:2008	- Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
ICES-003:2012	- Digital Apparatus - Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard
ISO 17025:2005	- General Requirements for the competence of testing and calibration laboratories
RSS-Gen:2014	- General Requirements and Information for the Certification of Radio Apparatus
RSS 210:2010	- Issue 8: Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

Client	Square Inc.	CLODA
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Sample calculation(s)

 $Margin = limit - (received \ signal + antenna \ factor + cable \ loss - pre-amp \ gain)$

Margin = 50.5dBuV/m - (50dBuV + 10dB + 2.5dB - 20dB)

Margin = 8 dB

Document Revision Status

Release 1 - November 29, 2015 Initial release.

Client	Square Inc.	CLODAT
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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUTNU

Definitions and Acronyms

The following definitions and acronyms are applicable in this report. See also ANSI C63.14.

AE – Auxiallary Equipment.

BW – Bandwidth. Unless otherwise stated, this is refers to the 6 dB bandwidth.

EMC – Electro-Magnetic Compatibility

EMI – Electro-Magnetic Immunity

EUT – Equipment Under Test

ITE – Information Technology Equipment with a primary function(s) of entry, storage, display, retrieval, transmission, processing, switching, or control, of data.

LISN – Line impedance stabilization network

NCR - No Calibration Required

RF – Radio Frequency

Client	Square Inc.	CLODAT
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Testing Facility

Testing for EMC on the EUT was carried out at Global EMC labs in Toronto, Ontario, Canada. The testing lab consists of a 3m semi-anechoic chamber calibrated to be able to allow measurements on an EUT with a maximum width or length of up to 2m and height up to 3m. The chamber is equipped with a turn table that is capable of testing devices up to 3300lb in weight. This facility is capable of testing products that are rated for 120 Vac and 240Vac single phase, or 208 Vac 3 phase input. DC capability is also available. The chamber is equipped with an antenna mast that controls polarization and height from the control room adjoining the shielded chamber. Radiated emissions measurements are performed using a Bilog, and Horn antenna where applicable. Conducted emissions, unless otherwise stated, are performed using a LISN.

Calibrations and Accreditations

The measurement site used is registered with Federal Communications Commission (FCC) and Industry Canada (IC). This site is calibrated for Normalized Site Attenuation (NSA) using test procedures outlined in ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz". The semi-anechoic chamber is lined with ferrite tiles and absorption cones to minimize any undesired reflections. All measuring equipment is calibrated on an annual or bi-annual basis as listed for each respective test.

Client	Square Inc.	CLODA
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Testing Environmental Conditions and Dates

Following were the environmental conditions in the facility during time of testing –

Date	Test	Init.	Temperature (°C)	Humidity (%)	Pressure (kPa)
Nov. 9, 2015	RE	RA	20-25°C	30-45%	100 -103kPa
Nov. 13, 2015	CE	RA	20-25°C	30-45%	100 -103kPa
Nov. 13, 2015	FFS	RA	20-25°C	30-45%	100 -103kPa
Nov.10, 2015	BW	RA	20-25°C	30-45%	100 -103kPa
Nov.13, 2015	Temp	RA	20-25°C (Outside temperature chamber)	30-45%	100 -103kPa
Nov.13, 2015	Volt	RA	20-25°C	30-45%	100 -103kPa

RE = Radiated Emissions

CE = Conducted Emissions

FFS = Fundamental Field Strength

BW = Bandwidth Measurements

Temp = Frequency Stability at Extreme Temperatures

Volt = Frequency Stability at Extreme Voltages

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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVICING

Detailed Test Results Section

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUINU

Radiated Emissions - Spurious

Purpose

The purpose of this test is to ensure that the RF energy unintentionally emitted from the EUT does not exceed the limits listed below as defined in the applicable test standard, as measured from a receiving antenna. This helps protect broadcast radio services such as television, FM radio, pagers, cellular telephones, emergency services, and so on, from unwanted interference.

Limit(s) and Method

Above 1000 MHz:

The method is as defined in ANSI C63.4:2009. The limits are as defined in FCC Part 15, Section 15.209:

2400/F uV/m (67.6-20log F dBuV/m) at 300 m ⁽¹⁾ 0.009 MHz - 0.490 MHz: $(147.6-20\log(F) \text{ at } 3 \text{ m})^{(1)}$ $24000/F \text{ uV/m} (87.6-20\log(F) \text{ dBuV/m}) \text{ at } 30 \text{ m}^{(1)}$ 0.490 MHz - 1.705 MHz: $(127.6-20\log(F) \text{ at } 3 \text{ m})^{(1)}$ 30~uV/m (29.5 dBuV/m) at $30~\text{m}^{~(1)},$ (69.5 dBuV/m at $3\text{m})^{~(1)}$ 1.705 MHz - 30.0 MHz: $100 \text{ uV/m} (40.0 \text{ dBuV/m}^1) \text{ at } 3 \text{ m}^{(1)}$ 30 MHZ – 88 MHz: $150 \text{ uV/m} (43.5 \text{ dBuV/m}^1) \text{ at } 3 \text{ m}^{(1)}$ 88 MHz – 216 MHz: $200 \text{ uV/m} (46.0 \text{ dBuV/m}^1) \text{ at } 3 \text{ m}^{(1)}$ 216 MHz – 960 MHz: $500 \text{ uV/m} (54.0 \text{ dBuV/m}^1) \text{ at } 3 \text{ m}^{(1)}$ Above 960 MHz: $500 \text{ uV/m} (54 \text{ dBuV/m}^2) \text{ at } 3\text{m}^{(2)}$ Above 1000 MHz:

 $500 \text{ uV/m} (74 \text{ dBuV/m}^3) \text{ at } 3\text{m}^{(3)}$

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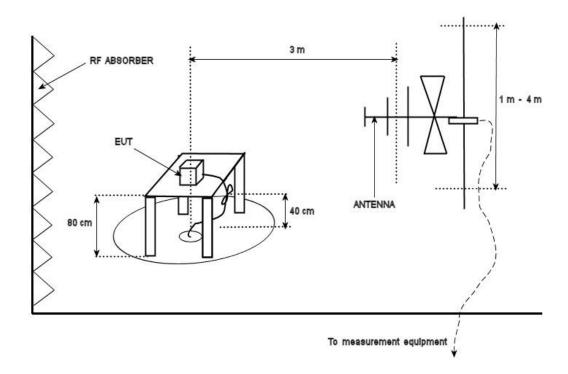
⁽¹⁾ Limit is with Quasi Peak detector with bandwidths as defined in CISPR-16-1-1.

⁽²⁾ Limit is with 1 MHz measurement bandwidth and using an Average detector.

⁽³⁾ Limit is with 1 MHz measurement bandwidth and using a Peak detector

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Typical Radiated Emissions Setup



Measurement Uncertainty

The expanded measurement uncertainty is calculated in accordance with CISPR 16-4-2 and is +/-4.4 dB with a 'k=2' coverage factor and a 95% confidence level.

Preliminary Graphs

Note the graphs shown below are for graphical illustration only. For final measurements with the appropriate detector, please refer to the final measurement table where applicable. The graphs shown below are maximized peak measurement graphs, measured with a resolution bandwidth greater than or equal to, the final required detector and over a full 0-360° rotation. This peaking process is done as a worst case measurement. This process enables the detection of frequencies of concern for final measurement, and provides considerable time savings.

In accordance with FCC Part 15, Subpart A, Section 15.33, the device was scanned to the 10th harmonic.

Client	Square Inc.	CLODA
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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMICINU

Devices may be scanned at alternate test distances, and in accordance with FCC Part 15, Subpart A, Section 15.31, an extrapolation factor of 20 dB/decade was used above 30 MHz and 40 dB/decade below 30 MHz. For example for 1 meter measurements, an extrapolation factor 9.5 dB from 20 Log (1m/3m) is applied.

See final measurement section for all measurements.

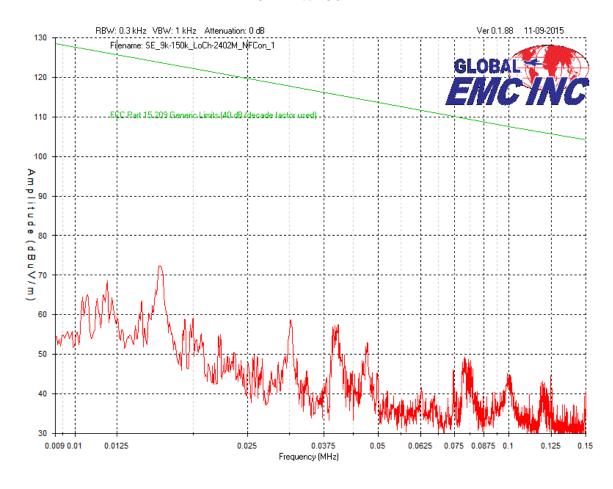
Both the BLE and the NFC transmitters are active and constantly transmitting modulated data at maximum power during all tests.

Plots and measurements are made at a 3 meter distance.

Client	Square Inc.
Product	S6 Mobile Credit Card Reader (RFID)
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010

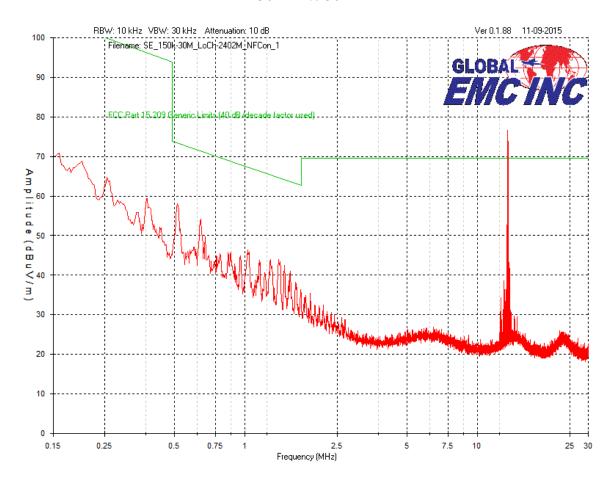


Peak Emissions Graph 9 kHz to 150 kHz



Client	Square Inc.	CLODA
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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EINCINC

Peak Emissions Graph 150 kHz to 30 MHz

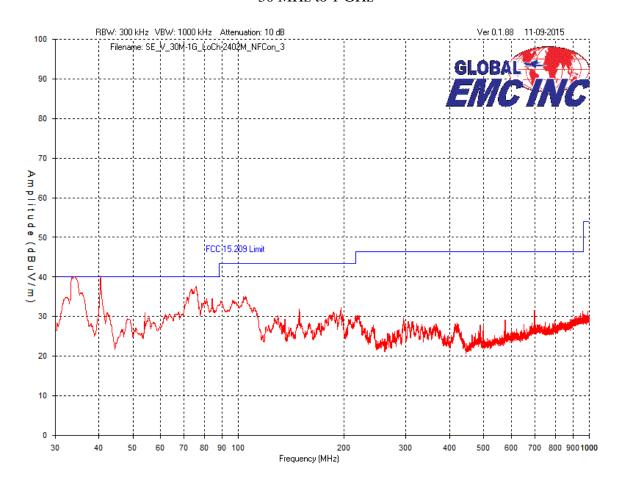


Note: Peak between $10~\mathrm{MHz} - 25~\mathrm{MHz}$ is the intentional transmission from the $13.56~\mathrm{MHz}$ RFID.

Client	Square Inc.	01.0
Product	S6 Mobile Credit Card Reader (RFID)	GLU
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	Elv



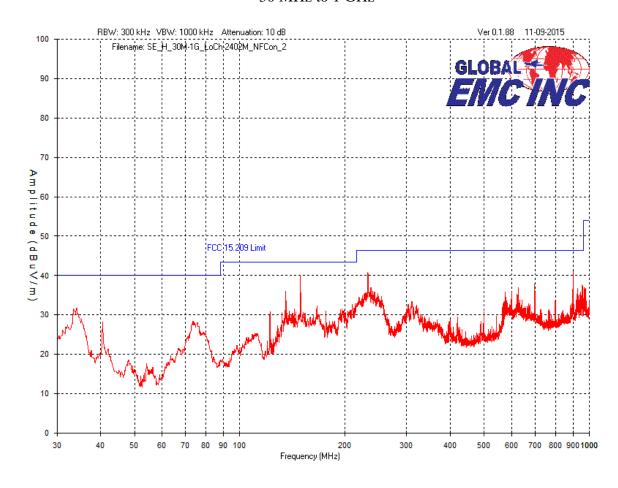
Peak Emissions Graph Vertical Antenna Polarity 30 MHz to 1 GHz



Client	Square Inc.	01.6
Product	S6 Mobile Credit Card Reader (RFID)	GLO
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



Peak Emissions Graph Horizontal Antenna Polarity 30 MHz to 1 GHz



Client	Square Inc.	CLODA
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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Final Measurements

Table 1: Radiated Emissions Spurious emissions 3m measurement distance

Test Frequency (MHz)	Detection mode	Raw signal dB(µV)	Antenna factor dB	Cable loss dB + Pre- selector	Pre- Amp Gain dB	Received signal dB(µV/m)	Emission limit dB(µV/m)	Margin dB(μV)	Result
			Ve	ertical Antenn	a Polari	ty			
40.5	QP	56.55	10.2	0.5	-33.1	34.15	40	5.85	Pass
33.5	QP	48.6	13.5	0.5	-33.1	29.5	40	10.5	Pass
75.7	QP	52.61	5.9	0.7	-33.2	26.01	40	13.99	Pass
195.9	Peak	54.3	10.3	1.1	-33.4	32.3	43.5	11.2	Pass
149.1	Peak	55.3	8.9	0.9	-33.2	31.9	43.5	11.6	Pass
129.5	Peak	54.8	7.8	0.9	-33.3	30.2	43.5	13.3	Pass
			Ho	rizontal Anten	na Polai	rity			
149.0	Peak	63.4	9	0.9	-33.2	40.1	43.5	3.4	Pass
898.0	Peak	47	23.6	2.3	-31.8	41.1	46.4	5.3	Pass
232.2	Peak	61.3	11.9	1.2	-33.5	40.9	46.4	5.5	Pass
135.4	Peak	60.7	7.6	0.9	-33.2	36	43.5	7.5	Pass
34.1	Peak	48.2	16.2	0.5	-33.1	31.8	40	8.2	Pass
950.5	Peak	43.3	23.6	2.4	-31.5	37.8	46.4	8.6	Pass

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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUINU

Test Equipment List

Equipment	Model No.	Manufacturer	Last calibration date	Next calibration due date	Asset #
Spectrum Analyzer	8566B	HP	May 21, 2014	May 21, 2016	GEMC 193
Quasi-Peak Adapter	85650A	HP	May 22, 2014	May 22, 2016	GEMC 194
Loop Antenna 30Hz – 1MHz	EM 6871	Electro-Metrics	Feb. 3, 2015	Feb. 3, 2017	GEMC 70
Loop Antenna 100kHz – 30MHz	EM 6872	Electro-Metrics	Feb. 3, 2015	Feb. 3, 2017	GEMC 71
BiLog Antenna	3142-C	ETS	Feb. 10, 2015	Feb. 10, 2017	GEMC 137
Preamp	CPA9231A	Chase	Sept. 9, 2014	Sept. 9, 2016	GEMC 6403
RF Cable 7m	LMR-400-7M- 50OHM-MN- MN	LexTec	NCR	NCR	GEMC 28
RF Cable 1m	LMR-400-1M- 50OHM-MN- MN	LexTec	NCR	NCR	GEMC 29

Client	Square Inc.	CLODA
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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMICINU

Radiated Emissions - Fundamental Field Strength

Purpose

The purpose of these tests is to ensure that the RF energy emitted from the EUT does not exceed the limits listed below as defined in the applicable test standard, as measured from a receiving antenna. This helps protect broadcast radio services such as television, FM radio, pagers, cellular telephones, emergency services, and so on, from unwanted interference. RF energy unintentionally emitted from the EUT, and the intentionally emitted fundamental and its harmonics, have limits as shown below.

Limit(s) and Method

The method is as defined in ANSI C63.4:2009 and as per applicable standards.

For the fundamental and harmonics, the limits are as defined in FCC Part 15, Section 15.225 (at 3m):

Frequency Band(s) ⁴	Field strength limits at 30m	Field strength limits at 3m
13.553-13.567 MHz	$15,848 \mu V/m$	124.0 dBμV/m
13.410-13.553 MHz and 13.567-13.710 MHz	334 μV/m	90.5 dBμV/m
3.110-13.410 MHz and 13.710-14.010 MHz	106 μV/m	80.5 dBμV/m
Outside 13.110-14.010 MHz		f FCC 15.209 apply. liated Emissions – Spurious.

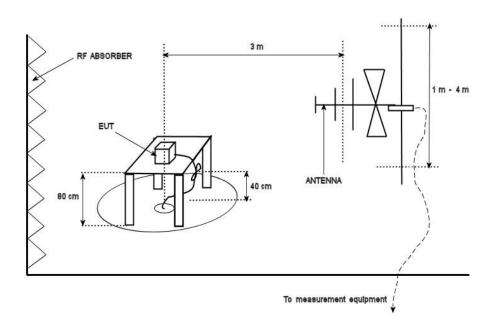
 $^{^4}$ In the frequency band 150 kHz – 30 MHz, the limit is defined with a 9 kHz measurement bandwidth.

To obtain the maximum emission, the loop antenna is positioned with its plane vertical and rotated about its vertical axis at the maximum azimuth position. This is then repeated with its plane horizontal, and rotated about the horizontal axis. The maximum obtained emission is presented.

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Client	Square Inc.	CLODA
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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EINCINC

Typical Radiated Emissions Setup



Measurement Uncertainty

The expanded measurement uncertainty is calculated in accordance with CISPR 16-4-2 and is \pm 4.4 dB with a 'k=2' coverage factor and a 95% confidence level.

Preliminary Graphs

The graphs shown below are peak scans for graphical illustration only. For final measurements with the appropriate detector, please refer to the final measurement table where applicable. The graph shown below is a maximized peak measurement graph, measured with a resolution bandwidth greater than or equal to, the final required detector and over a full 0-360° rotation. This peaking process is done as a worst case measurement. This process enables the detection of frequencies of concern for final measurement, and provides considerable time savings.

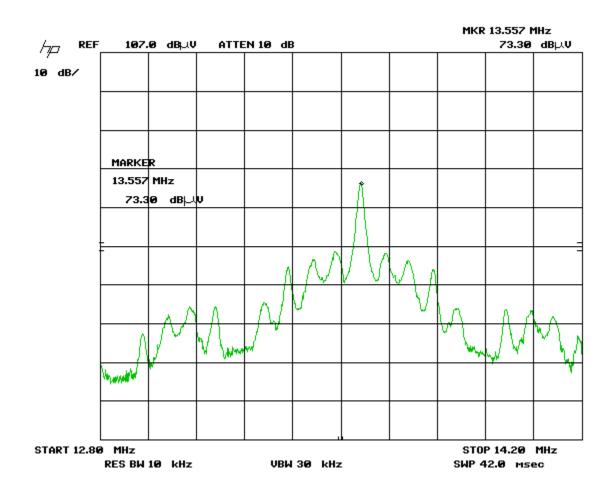
In accordance with FCC Part 15, Subpart A, Section 15.33, the device was scanned to at least the 10th harmonic.

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Client	Square Inc.	CLAD
Product	S6 Mobile Credit Card Reader (RFID)	GLUB
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI



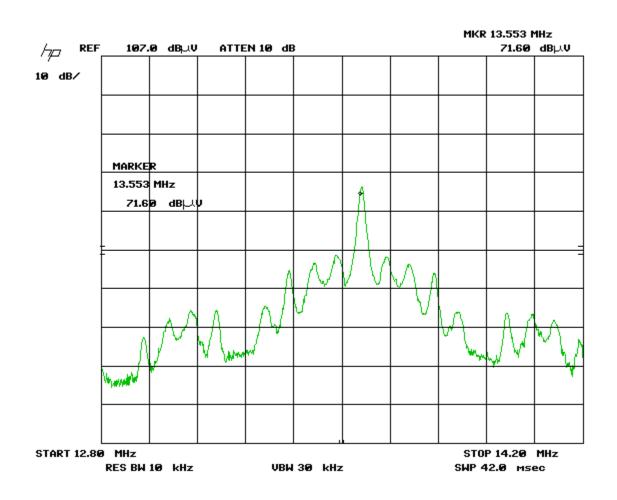
Peak Emission – Fundamental 13.553-13.567 MHz 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	
Product	S6 Mobile Credit Card Reader (RFID)	6
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



Peak Emission – Band Edges 13.410-13.553 MHz 3m test distance (Factors not incorporated. See *Final Measurements*.)

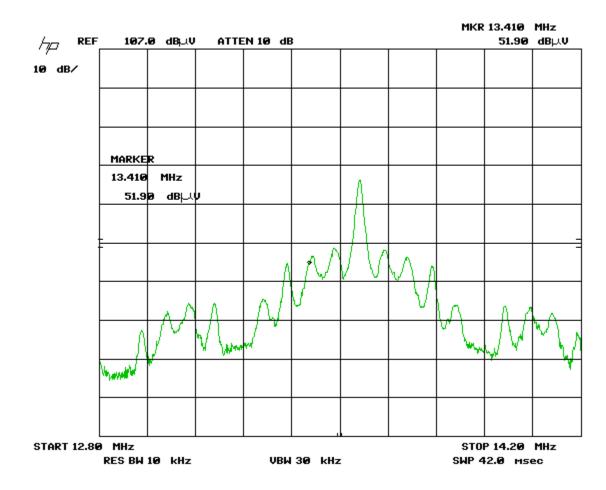


Client	Square Inc.	CLAR
Product	S6 Mobile Credit Card Reader (RFID)	GLUB
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	LIVI



Peak Emission – Band Edges 13.110-13.410 MHz 3m test distance

(Factors not incorporated. See Final Measurements.)

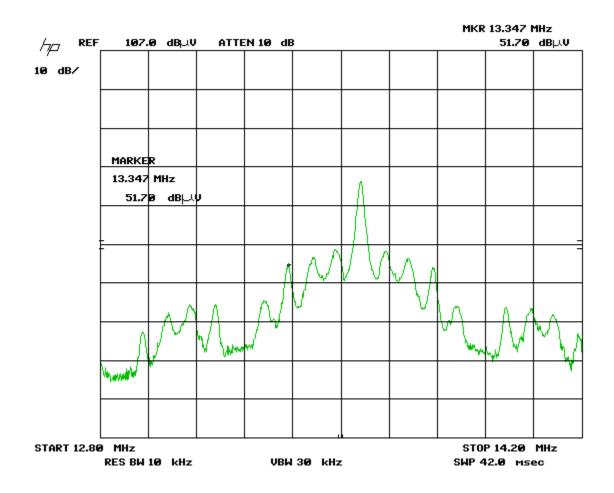


Client	Square Inc.	CI ADA
Product	S6 Mobile Credit Card Reader (RFID)	GLORA
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVIC



Peak Emission – Band Edges 13.110-13.410 MHz (Maximum in range) 3m test distance

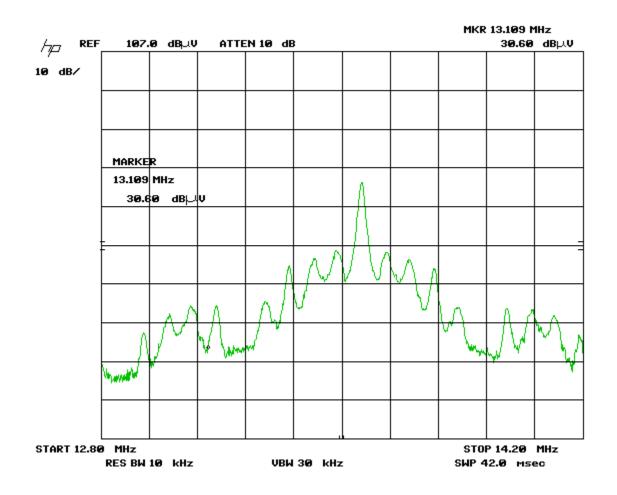
(Factors not incorporated. See Final Measurements.)



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Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	LIVI



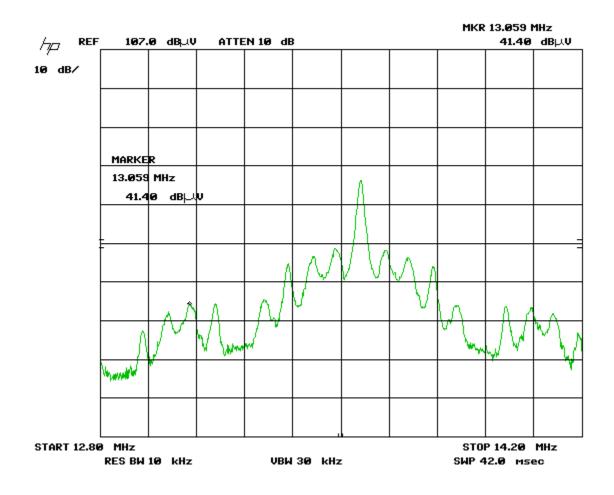
Peak Emission – Band Edges 13.110 MHz 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	CLADA
Product	S6 Mobile Credit Card Reader (RFID)	GLORI
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI



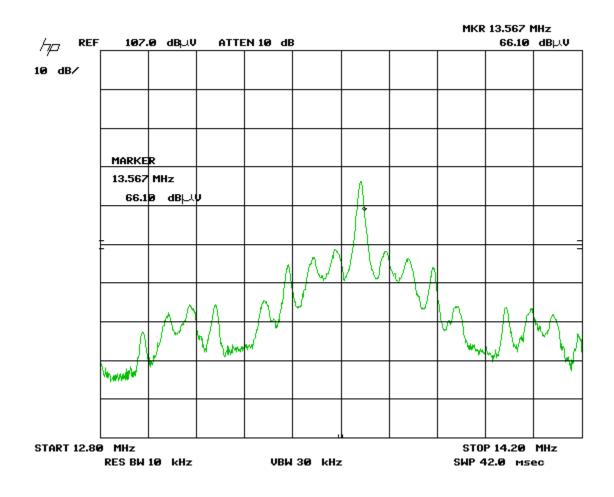
Peak Emission – Band Edges 13.056 MHz 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	OL AL
Product	S6 Mobile Credit Card Reader (RFID)	GLU
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI



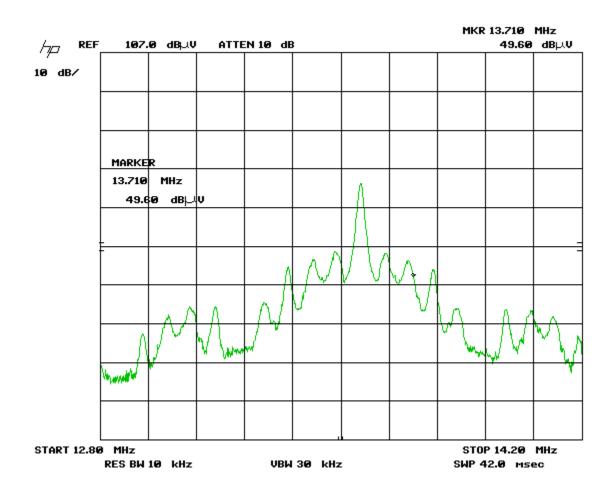
Peak Emission – Band Edges 13.567-13.710 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	CI AD
Product	S6 Mobile Credit Card Reader (RFID)	GLUB
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI



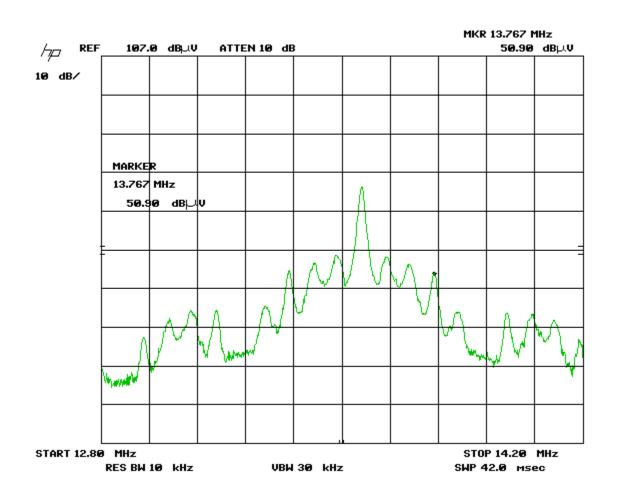
Peak Emission – Band Edges 13.710-14.010 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	AL AD
Product	S6 Mobile Credit Card Reader (RFID)	GLOR
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI (



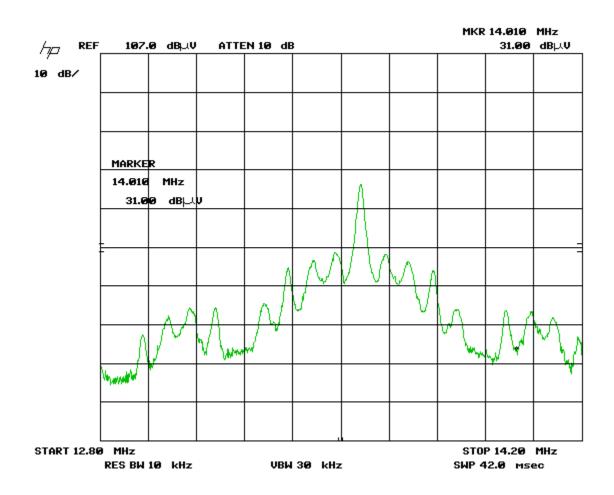
Peak Emission – Band Edges 13.710-14.010 MHz (Maximum in range) 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	AL AD
Product	S6 Mobile Credit Card Reader (RFID)	GLORI
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIII (



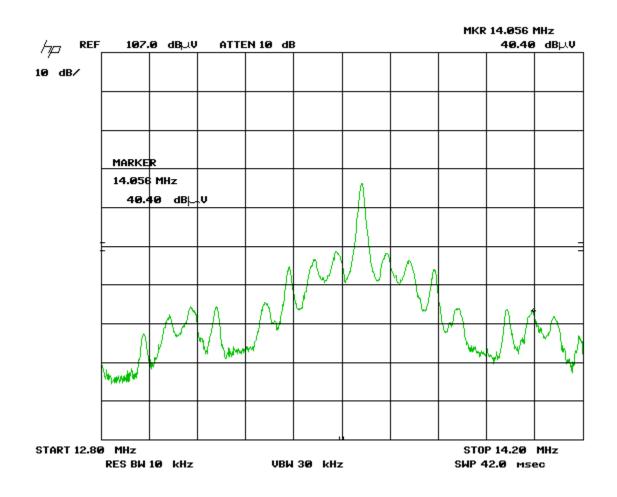
Peak Emission – Band Edges 14.010 MHz 3m test distance (Factors not incorporated. See *Final Measurements*.)



Client	Square Inc.	OI OF
Product	S6 Mobile Credit Card Reader (RFID)	GLUB
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI



Peak Emission – Band Edges 14.056 MHz 3m test distance (Factors not incorporated. See *Final Measurements*.)



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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EINICING

Final Measurements

Radiated Emissions - 15.225 Fundamental

Test Frequency (MHz)	Detection mode	Raw signal dB(µA)	dBμA to dBμV conversion factor	Antenna factor dB	Cable loss + Preselector dB	Pre- Amp Gain dB	Received signal dB(µV/m)	Emission limit dB(µV/m)	Margin dB(μV)	Result
13.56	Peak	73.3	51.5	-16.2	0.3	33.0	75.9	124.0	48.1	Pass

Radiated Emissions - 15.225 Band Edges

Test Frequency (MHz)	Detection mode	Raw signal dB(µA)	dBµA to dBµV conversion factor	Antenna factor dB	Cable loss + Pre- selector dB	Pre- Amp Gain dB	Received signal dB(µV/m)	Emission limit dB(µV/m)	Margin dB(μV)	Result
13.553	Peak	71.6	51.5	-16.2	0.3	33.0	74.2	90.4	16.2	Pass
13.410	Peak	51.9	51.5	-16.2	0.3	33.0	54.5	80.5	26.0	Pass
13.347	Peak	51.7	51.5	-16.2	0.3	33.0	54.3	80.5	26.2	Pass
13.11	Peak	30.6	51.5	-16.2	0.3	33.0	33.2	69.5	36.3	Pass
13.059	Peak	41.4	51.5	-16.2	0.3	33.0	44.0	69.5	25.5	Pass
13.567	Peak	66.1	51.5	-16.2	0.3	33.0	68.7	90.4	21.7	Pass
13.71	Peak	49.6	51.5	-16.2	0.3	33.0	52.2	80.5	28.3	Pass
13.767	Peak	50.9	51.5	-16.2	0.3	33.0	53.5	80.5	27.0	Pass
14.010	Peak	31.0	51.5	-16.2	0.3	33.0	33.6	69.5	35.9	Pass
14.056	Peak	40.4	51.5	-16.2	0.3	33.0	43.0	69.5	26.5	Pass

See *Radiated Emissions – Spurious* section in this report for spurious emissions test results outside of the FCC 15.225 bands.

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Client	Square Inc.	OL ODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUIN



Test Equipment List

Equipment	Model No.	Manufacturer	Last calibration date	Next calibration due date	Asset #
Spectrum Analyzer	8566B	HP	May 21, 2014	May 21, 2016	GEMC 193
Loop Antenna 100kHz – 30MHz	EM 6872	Electro-Metrics	Feb. 3, 2015	Feb. 3, 2017	GEMC 71
Preamp	CPA9231A	Chase	Sept. 9, 2014	Sept. 9, 2016	GEMC 6403
RF Cable 7m	LMR-400-7M- 50OHM-MN- MN	LexTec	NCR	NCR	GEMC 28
RF Cable 1m	LMR-400-1M- 50OHM-MN- MN	LexTec	NCR	NCR	GEMC 29

Client	Square Inc.	CLODAT
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUTNU

20 dB Bandwidth

Purpose

The purpose of this test is to find the 20 dB bandwidth of the emission. This is the bandwidth which is attenuated 20 dB from the peak of the intentional transmission.

Limit(s) and Method

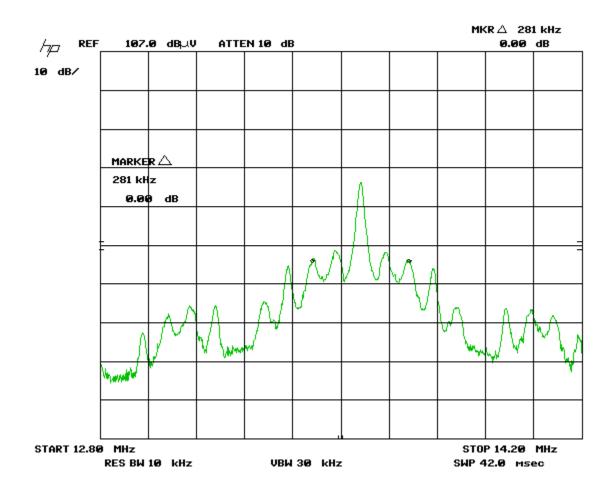
The method is as defined in ANSI C63.10.

There are no applicable limits for this test. Its results are for informational purposes only.

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Preliminary Graphs

20 dB Bandwidth for 13.56 MHz Transmission



Results

The 20 dB bandwidth for the 13.56 MHz transmission is 281 kHz.

Client	Square Inc.	CLODATE
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	ENICIN



Test Equipment List

Equipment	Model No.	Manufacturer	Last calibration date	Next calibration due date	Asset #
Spectrum Analyzer	8566B	HP	May 21, 2014	May 21, 2016	GEMC 193
Loop Antenna 100kHz – 30MHz	EM 6872	Electro-Metrics	Feb. 3, 2015	Feb. 3, 2017	GEMC 71
Preamp	CPA9231A	Chase	Sept. 9, 2014	Sept. 9, 2016	GEMC 6403
RF Cable 7m	LMR-400-7M- 50OHM-MN- MN	LexTec	NCR	NCR	GEMC 28
RF Cable 1m	LMR-400-1M- 50OHM-MN- MN	LexTec	NCR	NCR	GEMC 29

Client	Square Inc.	CLODAT
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUINU

Power Line Conducted Emissions

Purpose

The purpose of this test is to ensure that the RF energy unintentionally emitted from the EUT's power line does not exceed the limits listed below as defined in the applicable test standard, as measured from a LISN. This helps protect lower frequency radio services such as AM radio, shortwave radio, amateur radio operators, maritime radio, CB radio, and so on, from unwanted interference.

Limits & Method

The limits and method are as defined in 47 CFR FCC Part 15 Section 15.207, and RSS-Gen 8.8, Table 3.

e Limits	QuasiPeak Limits			
56 to 46 dBuV	150 kHz - 500 kHz	66 to 56 dBuV		
46 dBuV	500 kHz - 5 MHz	56 dBuV		
50 dBuV	500 kHz - 30 MHz	60 dBuV		
	56 to 46 dBuV 46 dBuV	56 to 46 dBuV 150 kHz – 500 kHz 46 dBuV 500 kHz – 5 MHz		

The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

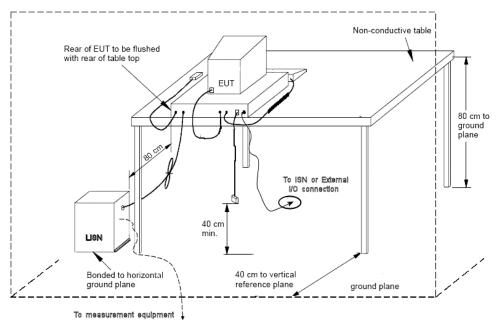
Note: If the Peak or Quasi Peak detector measurements do not exceed the Average limits, then the EUT is deemed to have passed the requirements.

Both limits are applicable, and each is specified as being measured with a 9 kHz measurement bandwidth.

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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EINCINC

Typical Setup Diagram



Measurement Uncertainty

The expanded measurement uncertainty is calculated in accordance with CISPR 16-4-2 and is +/-3.6 dB with a 'k=2' coverage factor and a 95% confidence level.

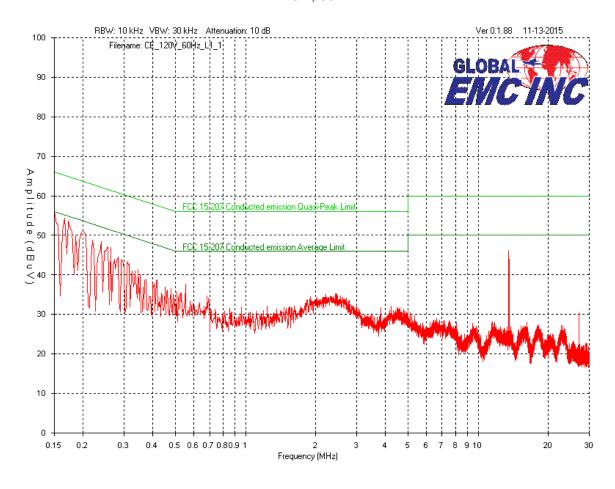
Preliminary Graphs

Note the graphs shown below are for graphical illustration only. For final measurements with the appropriate detector where applicable, please refer to the table. The graphs shown below are peak measurement graphs, measured with a resolution bandwidth greater than or equal to the final required detector. These graphs are performed as a worst case measurement to enable the detection of frequencies of concern and for considerable time savings. Power line conducted emissions is performed with the BLE and NFC transmitters transmitting with constant modulated data at maximum output power.

Client	Square Inc.	01
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



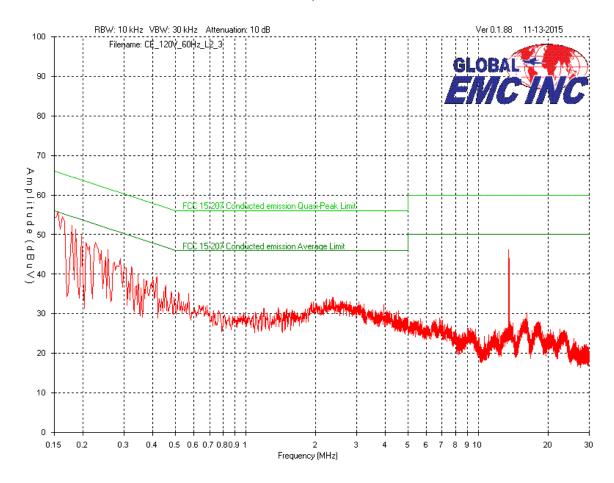
Peak Emissions Graph - Line 1, Phase 120V, 60Hz



Client	Square Inc.	
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



Peak Emissions Graph - Line 2, Neutral 120V, 60Hz



Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Final Measurements

Emissions Table 120V, 60Hz

Test Frequency (MHz)	Detector	Received signal (dBµV)	Attenuator (dB)	Cable loss (dB)	LISN factor (dB)	Emission Level (dBµV)	Quasi- Peak Emission limit (dBµV)	Average Emission limit (dBµV)	Quasi- Peak Margin (dB)	Average Margin (dB)	Result
				I	ine 1: P	hase Line					
0.167	Peak	44.3	10	0.1	0	54.4	65.1		10.7		Pass
0.167	Avg.	28.42	10	0.1	0	38.52		55.1		16.58	Pass
0.173	Peak	43.4	10	0.1	0	53.5	64.8		11.3		Pass
0.173	Avg.	26.02	10	0.1	0	36.12		54.8		18.68	Pass
13.56	Peak	35.9	10	0.2	0.1	46.2	60		13.8		Pass
13.56	Avg.	35.72	10	0.2	0.1	46.02		50		3.98	Pass
0.200	Peak	41	10	0.1	0	51.1	63.6	53.6	12.5	2.5	Pass
0.153	Peak	42.8	10	0.1	0	52.9	65.8	55.8	12.9	2.9	Pass
0.240	Peak	38.4	10	0.1	0	48.5	62.1	52.1	13.6	3.6	Pass
				Li	ine 2: Ne	eutral Line					
0.157	Peak	45.6	10	0.1	0	55.7	65.6		9.9		Pass
0.157	Avg.	28.77	10	0.1	0	38.87		55.6		16.73	Pass
0.180	Peak	42.2	10	0.1	0	52.3	64.5		12.2		Pass
0.180	Avg.	25.18	10	0.1	0	35.28		54.5		19.22	Pass
13.56	Peak	35.9	10	0.2	0.1	46.2	60		13.8		Pass
13.56	Avg.	36.16	10	0.2	0.1	46.46		50		3.54	Pass
0.187	Peak	41.3	10	0.1	0	51.4	64.2	54.2	12.8	2.8	Pass
0.196	Peak	39.5	10	0.1	0	49.6	63.8	53.8	14.2	4.2	Pass
0.226	Peak	37.9	10	0.1	0	48	62.6	52.6	14.6	4.6	Pass

Notes:

Peak = Peak measurement

Avg. = Average measurement

See 'Appendix B – EUT & Test Setup Photographs' for photos showing the test set-up

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMUINU

Test Equipment List

Equipment	Model No.	Manufacturer	Last calibration date	Next calibration due date	Asset #
Spectrum Analyzer	FSU	Rohde & Schwarz	Jan. 19, 2015	Jan. 19, 2017	GEMC 198
LISN	FCC-LISN- 50/250-16-2-01	FCC	Jan. 15, 2015	Jan. 15, 2017	GEMC 65
RF Cable 7m	LMR-400-7M- 50OHM-MN-MN	LexTec	NCR	NCR	GEMC 28
Attenuator 10 dB	FP-50-10	Trilithic	NCR	NCR	GEMC 42

This report module is based on GEMC template "FCC – Power Line Conducted Emissions Class B_Rev1"

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Frequency Stability at Extreme Temperatures

Purpose

The purpose of this test is to ensure that the frequency tolerance of the carrier signal is maintained within the required limits during extreme temperature variations. This helps protect radio broadcasts and receivers close to the equipment under test from unwanted interference. This also helps ensure proper reception of the intended signal by ensuring the transmit frequency is correct over the expected temperature range.

Limit(s) and Method

The temperature test range is as defined in FCC Part 15, Section 15.225(e).

The variation of frequency must be recorded over the temperature range of -20° C to $+50^{\circ}$ C. The output frequency must remain within $\pm 0.01\%$ of the operating frequency (i.e. 13.54644 - 13.561356 MHz).

Results / Measurement Graphs

There is no deviation in the frequency of the EUT during this test which would cause it to be non-compliant with the specifications. The results are presented in the chart below.

The EUT is only rated to be used within 0°C - 40°C. The lowest temperature at which the RFID's fundamental transmission was detected is -10°C. The RFID is not operational at -20°C, and no transmission is detected at this temperature.

	Frequency Recorded After EUT is Turned On (MHz)				
Temperature	Immediately	2 mins	5 mins	10 mins	
+50°C	13.5600961540	13.5600961540	13.5600961540	13.5600961540	
+40 °C	13.5600961540	13.5600961540	13.5600961540	13.5600961540	
+30 °C	13.5600961540	13.5600961540	13.5600961540	13.5600961540	
+20 °C	13.5600961540	13.5600961540	13.5600961540	13.5600961540	
+10°C	13.5600961540	13.5600961540	13.5600961540	13.5600961540	
0 °C	13.5600961540	13.5600961540	13.5600961540	13.5600961540	
-10 °C	13.5600961540	13.5600961540	13.5608974360	13.5600961540	
-20 °C	13.56MHz circ	uit on EUT fails to ope	rate at this temperature	e. No transmission.	

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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EINC INC

Test Equipment List

Equipment	Model No.	Manufacturer	Last calibration date	Next calibration due date	Asset #
Spectrum Analyzer	FSU	Rohde & Schwarz	Jan. 19, 2015	Jan. 19, 2017	GEMC 198
Loop Antenna 100kHz – 30MHz	EM 6872	Electro-Metrics	Feb. 3, 2015	Feb. 3, 2017	GEMC 71
Temperature and Humidity Meter	HMP233	Vaisala	Dec. 1, 2014	Dec. 1, 2015	CANE 00043
RF Cable 1m	LMR-400- 1M-50OHM- MN-MN	LexTec	NCR	NCR	GEMC 29

This report module is based on GEMC template "FCC - 15.225 - RFID Freq Stab_Rev1.doc"

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMICINU

Frequency Stability at Extreme Voltages

Purpose

The purpose of this test is to ensure that the frequency tolerance of the carrier signal is maintained within the required limits during extreme voltage variations. This helps protect radio broadcasts and receivers close to the equipment under test from unwanted interference. This also helps ensure proper reception of the intended signal by ensuring the transmit frequency is correct over expected variations in voltage.

Limits

The temperature test range is as defined in FCC Part 15, Section 15.225(e).

The variation of frequency must be recorded for a variation in the primary supply voltage from 85% - 115% of the rated supply voltage at a temperature of 20°C

Test Results.

There is no deviation in the frequency of the EUT during this test which would cause it to be non-compliant with the specifications. The results are presented in the chart below.

EUT rated voltage: 3.7 Vdc.

Voltage variation: 3.145 Vdc – 4.255 Vdc

Voltage (Vdc)	Frequency (MHz)
4.255	13.560320513
3.7	13.560320513
3.3	13.560320513
	EUT fails to operate at this voltage. Voltage
3.145	regulation stops operation of the EUT if the
	primary voltage source is below ~3.3Vdc.

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EINIC INC

Test Equipment List

Equipment	Model No.	Manufacturer	Last calibration date	Next calibration due date	Asset #
Spectrum Analyzer	FSU	Rohde & Schwarz	Jan. 19, 2015	Jan. 19, 2017	GEMC 198
Loop Antenna 100kHz – 30MHz	EM 6872	Electro-Metrics	Feb. 3, 2015	Feb. 3, 2017	GEMC 71
Digital Multimeter	287	Fluke	Jun. 1, 2015	Jun. 1, 2016	CANE 00151
RF Cable 1m	LMR-400- 1M-50OHM- MN-MN	LexTec	NCR	NCR	GEMC 29

Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMCINU

Appendix A – EUT Summary

For further details for filing purposes, refer to filing package.

General EUT Description

•	Client Details				
Organization / Address	Square Inc. 1455 Market St. Suite 600 San Francisco, CA USA 95014				
Contact	Kevin Ng				
Phone	416-204-0032 x 85111				
Email	kevinng@squareup.com				
EUT (Equ	ipment Under Test) Details				
EUT Model / Name	S6 / R12 Mobile Credit Card Reader				
EUT is powered using	Internal Li-poly rechargable battery or USB				
Input voltage range(s) (V)	5VDC +/- 10%				
Frequency range(s) (Hz)	NFC (13.56 MHz), Bluetooth Low Energy (2.402 GHz - 2.480 GHz)				
Rated input current (A)	500 mA				
Nominal power consumption (W)	1W (NFC radio on)				
Transmits RF energy? (describe)	NFC and BLE. Both radios can transmit simultaneously				
Basic EUT functionality description	Mobile credit card reader that can read contact and contactless cards. It connects to host devices via BLE or USB				
Modes of operation	1, on				
Frequency of all clocks present in EUT	32.768 kHz, 13.56 MHz, 24 MHz				
I/O connectors description	USB Micro-B connector				
Peripherals required to exercise EUT	Laptop to issue commands to the unit to enable radios				
Dimensions of product	L: 68 mm W: 68 mm H: 11 mm				

Note the EUT is considered to have been received the date of the commencement of the first test, unless otherwise stated. For a close-up picture of the EUT, see 'Appendix B-EUT & Test Setup Photographs'.

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Client	Square Inc.	CLODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EMCINC

Appendix B – EUT and Test Setup Photographs

Note: These photos are for information purposes only. Also refer to .PDF files that are separate from this test report.

Client	Square Inc.	AL.
Product	S6 Mobile Credit Card Reader (RFID)	GL.
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



EUT – External view 1



Client	Square Inc.	OL ODA
Product	S6 Mobile Credit Card Reader (RFID)	GLUBAL
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVIC

EUT – External view 2



Client	Square Inc.
Product	S6 Mobile Credit Card Reader (RFID)
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010



EUT – External view 3



Client	Square Inc.	
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



EUT – Internal view 1 Enclosure Cover removed

BLE antenna



Client	Square Inc.
Product	S6 Mobile Credit Card Reader (RFID)
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010



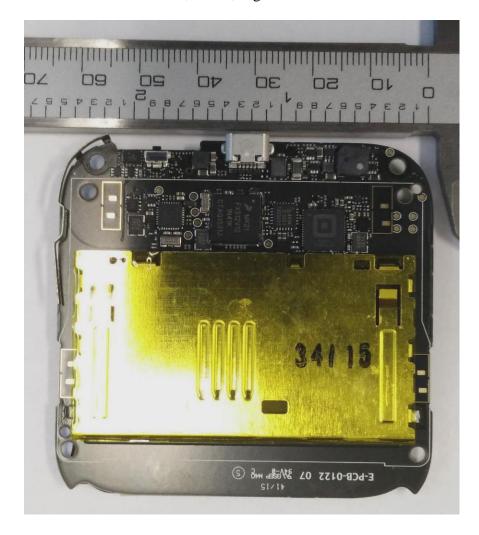
EUT – Internal view 2 PCB, side 1, with cage



Client	Square Inc.	AL
Product	S6 Mobile Credit Card Reader (RFID)	GL.
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



EUT – Internal view 3 PCB, side 1, cage removed



Client	Square Inc.	AL.
Product	S6 Mobile Credit Card Reader (RFID)	GL.
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



EUT – Internal view 4 PCB, side 1, cage removed, alternate angle



Contact card socket soldered directly onto PCB. Not a shield. There are no components under this part.

Client	Square Inc.	
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



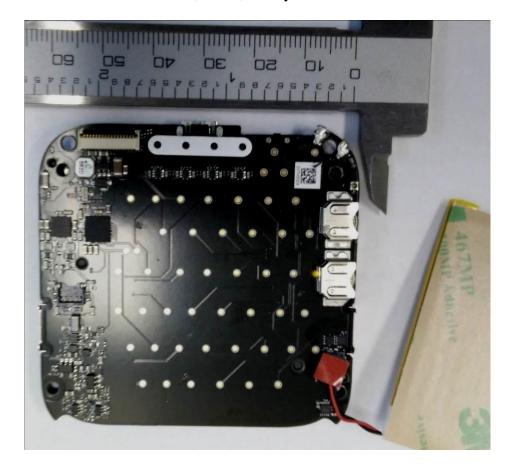
EUT – Internal view 5 PCB, side 2, with battery in place



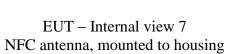
Client	Square Inc.	AL AL
Product	S6 Mobile Credit Card Reader (RFID)	GLUE
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIVI

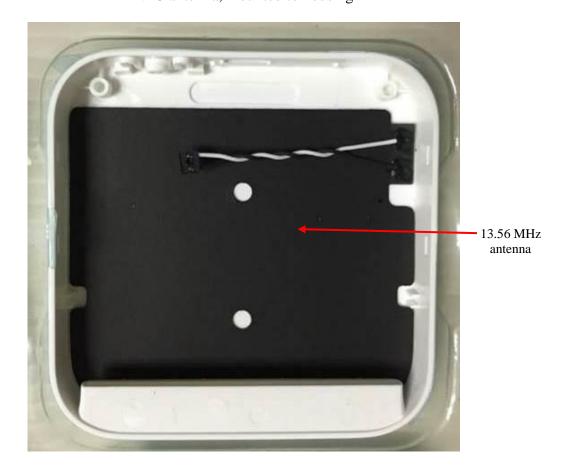


EUT – Internal view 6 PCB, side 2, battery removed



Client	Square Inc.	OL AL
Product	S6 Mobile Credit Card Reader (RFID)	GLU
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	EIV





Client	Square Inc.	
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	



Radiated Emissions Photo 1



Client	Square Inc.
Product	S6 Mobile Credit Card Reader (RFID)
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010



Radiated Emissions Photo 2



Client	Square Inc.	GLOBAL ENCINC
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Frequency Stability at Extreme Temperatures



Client	Square Inc.	GLOBAL ENCINC
Product	S6 Mobile Credit Card Reader (RFID)	
Standard(s)	FCC Part 15 Subpart C 15:2015 / RSS 210 Issue 8:2010	

Frequency Stability at Extreme Voltages

