

PAX Technology Limited

EFT-POS Terminal

Main Model: S500

Serial Model: N/A




August 11, 2014

Report No.: 14070371-FCC-R1
(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
David Huang Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

RF Test Report

To: FCC Part 15.225: 2013; ANSI C63.4: 2009

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Country/Region	Scope
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Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety



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1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the PAX Technology Limited, EFT-POS Terminal and model: S500 against the current Stipulated Standards. The EFT-POS Terminal has demonstrated compliance with the FCC Part 15.225: 2013; ANSI C63.4: 2009.

EUT Information

EUT Description : EFT-POS Terminal

Main Model : S500

Serial Model : N/A

**Input Power : Adapter:
Model: HKA00909010-8F
Input: 100-240V; 50/60Hz 0.3A
Output: 9.0V; 1.0A**

Classification Per Stipulated Test Standard : FCC Part 15.225: 2013; ANSI C63.4: 2009



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2 TECHNICAL DETAILS

Purpose	Compliance testing of EFT-POS Terminal with stipulated standard
Applicant / Client	PAX Technology Limited Room 2416, 24/F., Sun Hung Kai Centre 30 Harbour Road Wanchai China
Manufacturer	PAX Computer Technology (Shenzhen) Co., Ltd. 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C
Laboratory performing the tests	SIEMIC (Shenzhen-China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.cn
Test report reference number	14070371-FCC-R1
Date EUT received	July 17, 2014
Standard applied	FCC Part 15.225: 2013; ANSI C63.4: 2009;
Dates of test (from – to)	July 22 to August 11, 2014
No of Units	#1
Equipment Category	DXX
Trade Name	PAX
RF Operating Frequency (ies)	RFID: 13.56MHz
Number of Channels	RFID: 1CH (ASK)
Modulation	RFID: ASK
FCC ID	V5PS500RF



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3 MODIFICATION

NONE

4 TEST SUMMARY

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

Spread Spectrum System/Device

Test Results Summary

Description	Pass / Fail	
15.203	Antenna Requirement	Pass
15.215(c)	20 dB Bandwidth&99% Occupied Bandwidth	Pass
15.225(a), 15.225(b), 15.225(c)	Field Strength Measurement	Pass
15.207(a)	Conducted Emissions	Pass
15.225(d),15.209	Radiated Emissions(Tx)	Pass
15.225(e)	Frequency Stability	Pass



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5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 Antenna Requirement

Standard Requirement:

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The antenna is permanently attached to the device.

Test Result: Pass

5.2 20 dB Bandwidth&99% Occupied Bandwidth

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Environmental Conditions
Temperature 21°C
Relative Humidity 54%
Atmospheric Pressure 1004mbar
3. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.
4. Test date : July 23, 2014
Tested By : David Huang

Standard Requirement:

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

Procedures:

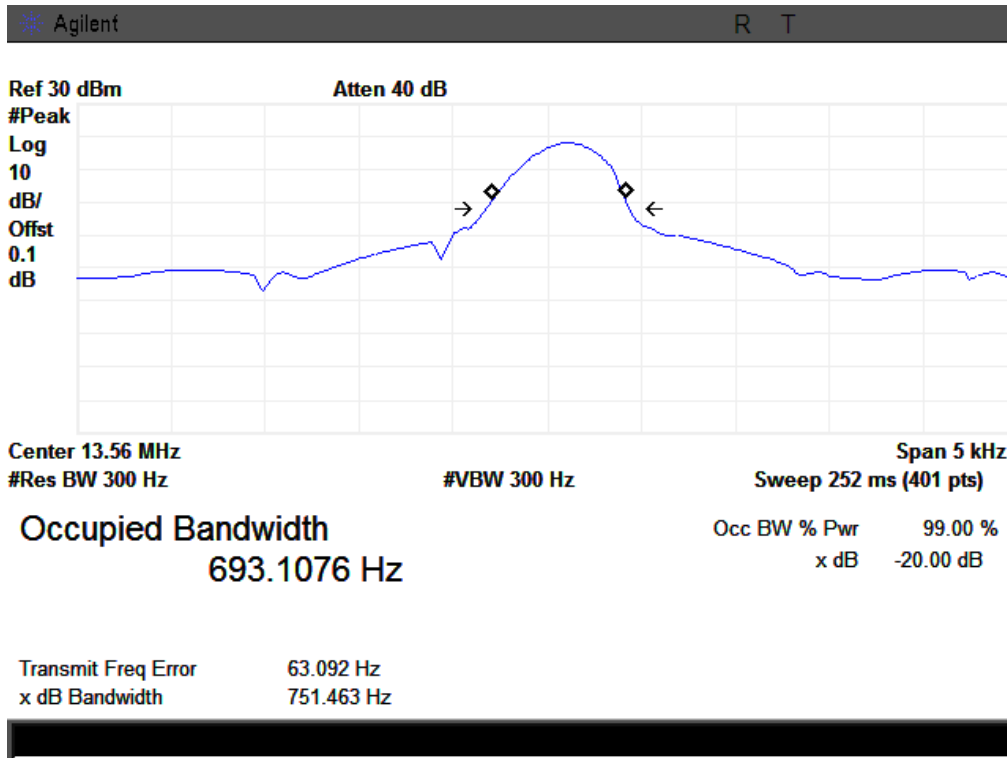
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel, RBW $\geq 1\%$ of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

Test Result: Pass

Test Mode:	Transmitting
-------------------	---------------------

Frequency (MHz)	20dB Bandwidth (Hz)	99% Occupied Bandwidth (Hz)
13.56	751.463	693.1076

The 20dB&99% bandwidth:



5.3 Field Strength Measurement

1. Radiated Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
2. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ±1.5dB.
3. Environmental Conditions

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1012mbar
4. Test date : August 11, 2014
Tested By : David Huang

Test Requirement:

The field strength of any emission shall not exceed the following limits:

- a. 15.848 microvolts/m (84 dBµV/m) at 30 m, within the band 13.553–13.567 MHz.
- b. 334 microvolts/m (50.5 dBµV/m) at 30 m, within the bands 13.410–13.553 MHz and 13.567–13.710 MHz.
- c. 106 microvolts/m (40.5 dBµV/m) at 30 m, within the bands 13.110–13.410 MHz and 13.710–14.010 MHz.
- d. 30 microvolts/m (29.5 dBµV/m) at 30 m, outside the band 13.110–14.010 MHz.

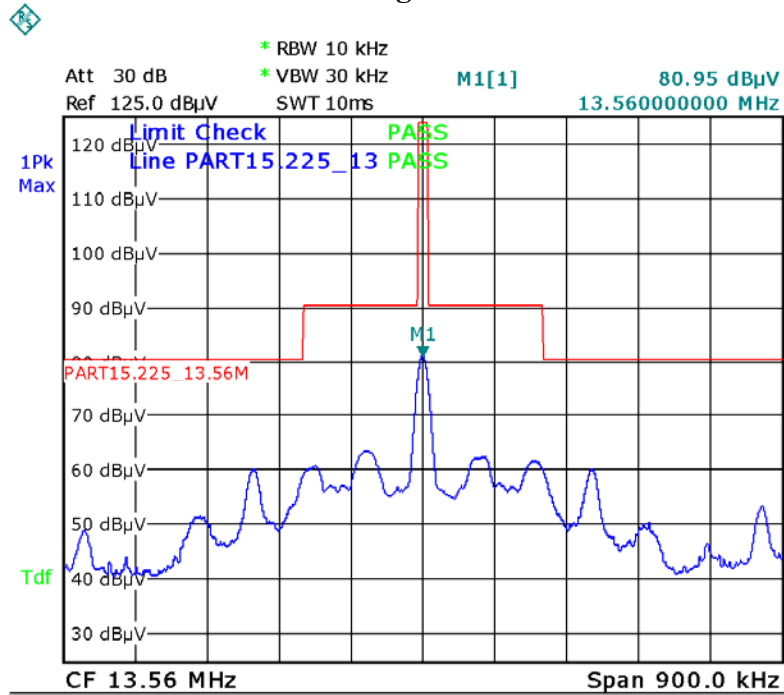
Carrier frequency stability shall be maintained to ±0.01% (±100 ppm).

Test Result: Pass

Test Mode:	Transmitting
-------------------	---------------------

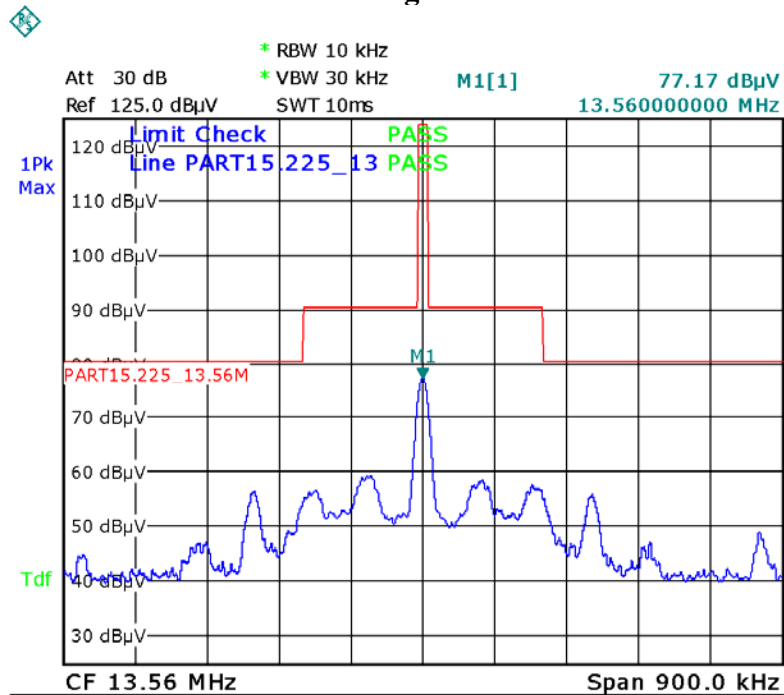
Fundamental Field Strength:

0 degree



Date: 11.AUG.2014 17:22:10

90 degree



Date: 11.AUG.2014 17:30:04

5.4 Conducted emissions Test Result

Standard Requirement:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

Procedures:

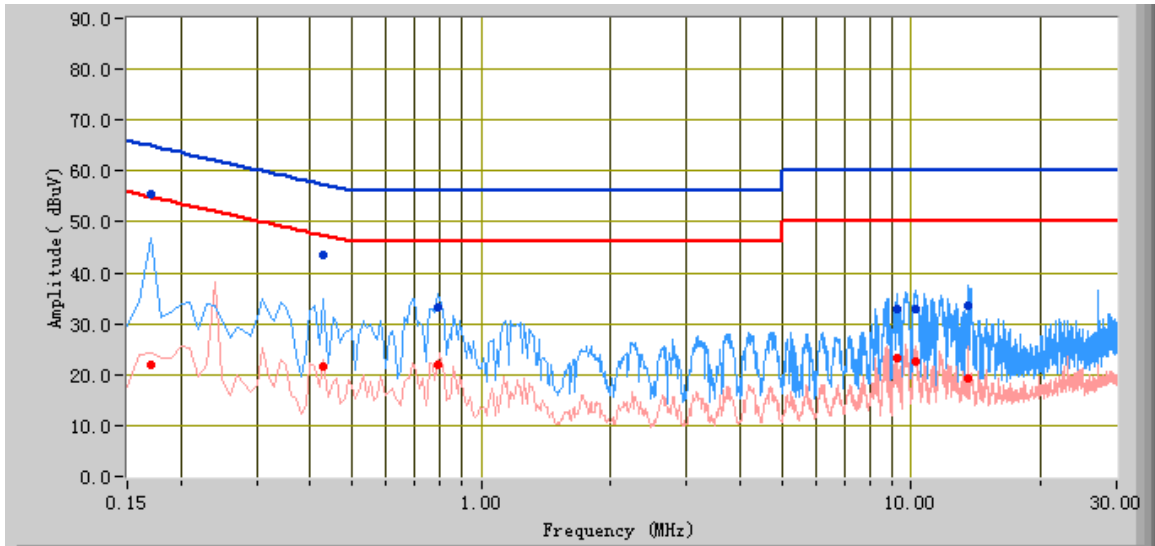
1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. **Conducted Emissions Measurement Uncertainty**
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ± 3.5 dB.
4. **Environmental Conditions**

Temperature	20°C
Relative Humidity	53%
Atmospheric Pressure	1003mbar
5. Test date : July 22, 2014
Tested By : David Huang

Test Result: Pass

Test Mode:	Running
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Peak Detector  **Quasi Peak Limit** 
Average Detector  **Average Limit** 



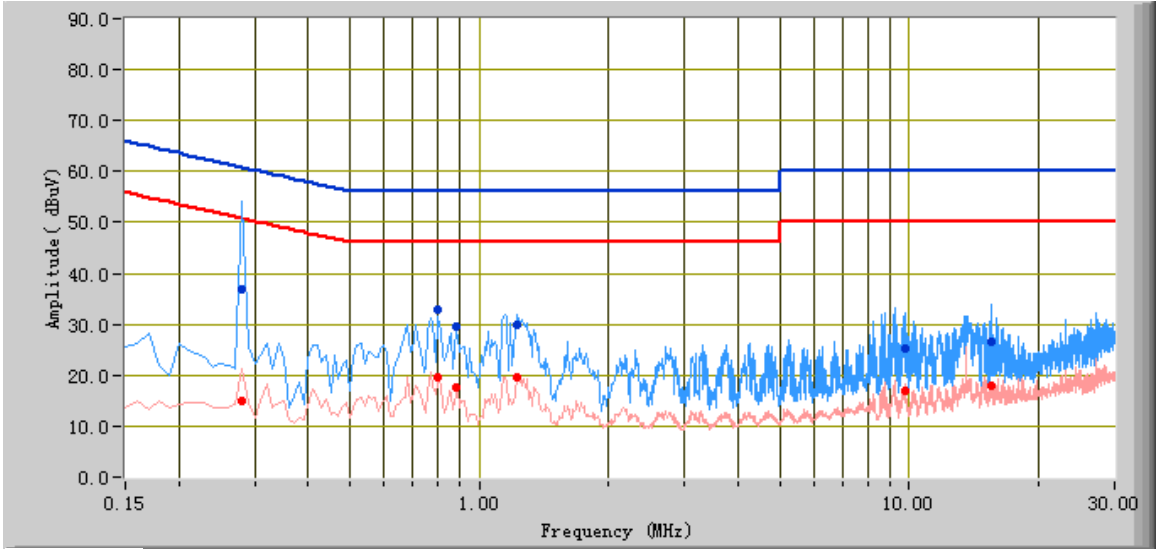
Test Data

Phase Line Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.17	55.59	64.96	-9.37	21.97	54.96	-32.99	12.35
0.79	33.06	56.00	-22.94	22.01	46.00	-23.99	10.40
0.43	43.48	57.25	-13.77	21.43	47.25	-25.82	10.86
10.22	32.75	60.00	-27.25	22.61	50.00	-27.39	12.04
9.26	32.90	60.00	-27.10	23.36	50.00	-26.64	11.84
13.58	33.53	60.00	-26.47	19.41	50.00	-30.59	12.98

Test Mode:	Running
-------------------	----------------

Peak Detector  **Quasi Peak Limit** 
Average Detector  **Average Limit** 



Test Data

Phase Natural Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
15.50	26.45	60.00	-33.55	17.99	50.00	-32.01	13.57
0.28	36.91	60.82	-23.91	14.97	50.82	-35.85	11.61
1.22	30.04	56.00	-25.96	19.57	46.00	-26.43	10.30
0.80	32.90	56.00	-23.10	19.49	46.00	-26.51	10.40
0.88	29.64	56.00	-26.36	17.56	46.00	-28.44	10.36
9.74	25.33	60.00	-34.67	17.05	50.00	-32.95	11.95

5.5 Radiated Emissions (TX)

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz (3m & 10m) & 1GHz above (3m) is +5.6/-4.5dB.
4. Environmental Conditions

Temperature	20°C
Relative Humidity	53%
Atmospheric Pressure	1003mbar
5. Test date : July 22, 2014
Tested By : David Huang

Standard Requirement:

The emissions from the Low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges.

The spurious emission scanned frequency range is 30MHz – 25GHz.

Test Result: Pass

Test Mode:	Transmitting
-------------------	---------------------

Below 30MHz

1-30MHz (0 degree)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Ant. Factor (dB/m)	Cable Loss (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Note
10.26	16.91	QP	13.36	0.15	30.42	69.54	-39.12	spurious
14.05	13.88	QP	15.05	0.2	29.13	69.54	-40.41	spurious
18.68	20.35	QP	14.95	0.25	35.55	69.54	-33.99	spurious



1-30MHz (90 degree)

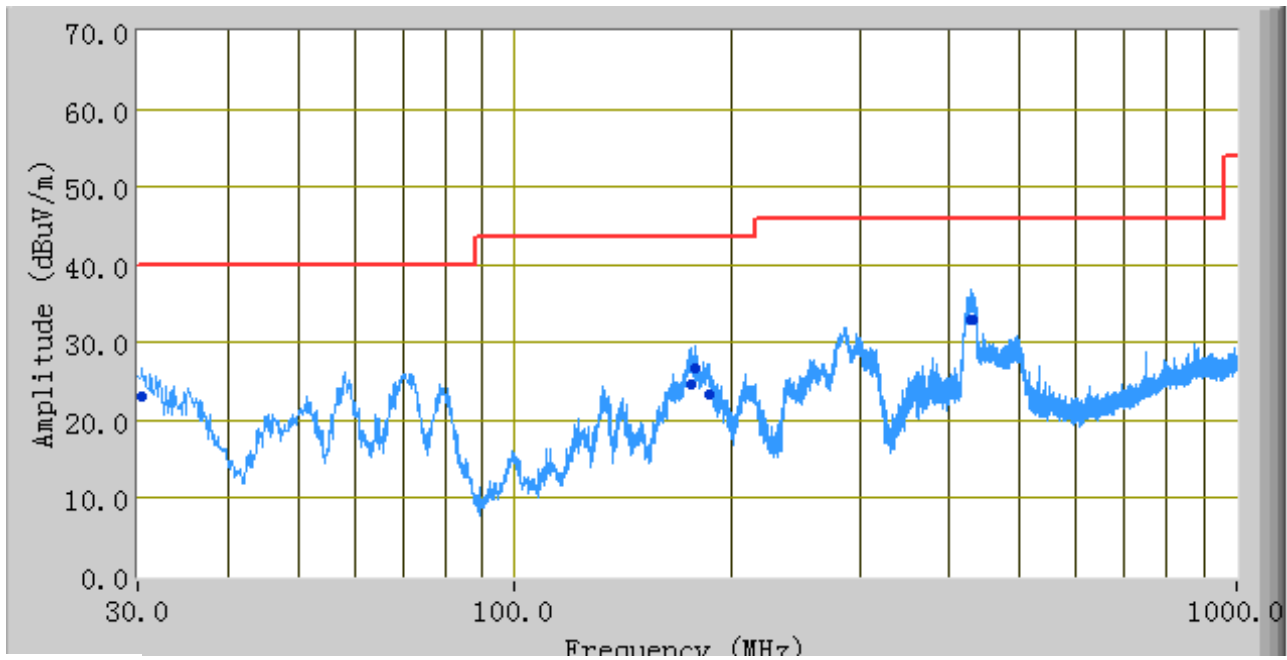
Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Ant. Factor (dB/m)	Cable Loss (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Note
10.26	17.3	QP	13.36	0.15	30.81	69.54	-38.73	spurious
14.05	11.43	QP	15.05	0.2	26.68	69.54	-42.86	spurious
18.68	19.78	QP	14.95	0.25	34.98	69.54	-34.56	spurious

Note: Emissions from 9kHz to 1MHz is very low under transmit mode so test data is not presented in this report

Test Mode:	Transmitting
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Above 30MHz

Peak Detector 
 Quasi Peak Limit 



Test Data

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H/V)	Height (cm)	Factors (dB)	Limit (dBuV)	Margin (dB)
427.29	32.82	246.00	H	254.00	-2.72	46.00	-13.18
177.81	26.82	278.00	H	161.00	-8.79	43.52	-16.7
429.83	33.03	283.00	H	228.00	-2.69	46.00	-12.97
174.94	24.64	281.00	H	144.00	-8.69	43.52	-18.88
185.39	23.21	119.00	H	146.00	-8.68	43.52	-20.31
30.53	23.02	174.00	V	106.00	-1.95	40.00	-16.98

5.6 Frequency Stability

Requirement(s): 47 CFR §15.225(e)

Procedures: Frequency Stability was measured according to 47 CFR§2.1055. Measurement was taken with spectrum analyzer. The spectrum analyzer bandwidth and span was set to read in hertz. A voltmeter was used to monitor when varying the voltage.

Limit: $\pm 0.01\%$ of 13.56MHz=1356Hz

- | | | | |
|----|---------------------------|----------------------|----------|
| 1. | Environmental Conditions | Temperature | 20°C |
| | | Relative Humidity | 53% |
| | | Atmospheric Pressure | 1003mbar |
| 2. | Test date : July 22, 2012 | | |
| | Tested By : David Huang | | |

The result: Pass

Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20°C to +50°C at normal supply voltage.

Reference Frequency: 13.56MHz at -20°C to +50°C 120V AC

Temperature (°C)	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
50	13.5606	600	<0.01	Pass
40	13.5607	700	<0.01	Pass
30	13.5604	400	<0.01	Pass
20	Reference			
10	13.5603	300	<0.01	Pass
0	13.5608	800	<0.01	Pass
-10	13.5607	700	<0.01	Pass
-20	13.5605	500	<0.01	Pass

Frequency Stability versus Input Voltage: The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$, the frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at 20°C environmental temperature.

Carrier Frequency: 13.56MHz at 20°C at 120 V AC

Measured Voltage $\pm 15\%$ of nominal(DC)	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
102	13.5603	300	<0.01	Pass
138	13.5604	400	<0.01	Pass

Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
AC Line Conducted Emissions				
EMI test receiver	ESCS30	8471241027	05/27/2014	05/26/2015
Line Impedance Stabilization Network	LI-125A	191106	11/14/2013	11/13/2014
Line Impedance Stabilization Network	LI-125A	191107	11/14/2013	11/13/2014
LISN	ISN T800	34373	01/11/2014	01/10/2015
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	11/20/2013	11/19/2014
Transient Limiter	LIT-153	531118	09/02/2013	09/01/2014
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2013	09/16/2014
Power Splitter	1#	1#	09/02/2013	09/01/2014
DC Power Supply	E3640A	MY40004013	09/17/2013	09/16/2014
Wireless Connectivity Test Set	N4010A	GB444440198	03/20/2014	03/19/2015
Radiated Emissions				
EMI test receiver	ESL6	100262	11/23/2013	11/22/2014
Positioning Controller	UC3000	MF780208282	11/19/2013	11/19/2014
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2013	09/01/2014
Microwave Preamplifier (0.5 ~18GHz)	PAM-118	443008	09/02/2013	09/01/2014
Active Antenna(9kHz-30MHz)	AL-130	121031	11/20/2013	11/19/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/23/2013	09/22/2014
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	11/20/2013	11/19/2014
Universal Radio Communication Tester	CMU200	121393	09/17/2013	09/16/2014

Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

Limit

- Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

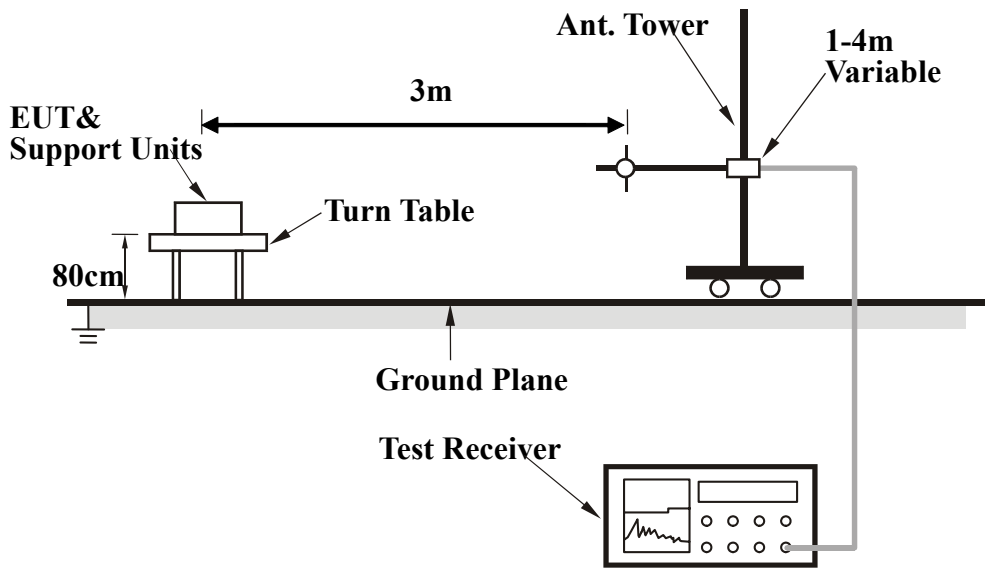
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or 3m EMC chamber.

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured was complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Description of Radiated Emissions Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor or}$$

$$\text{Set RBW} = 1\text{MHz, VBW} = 10\text{Hz.}$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo



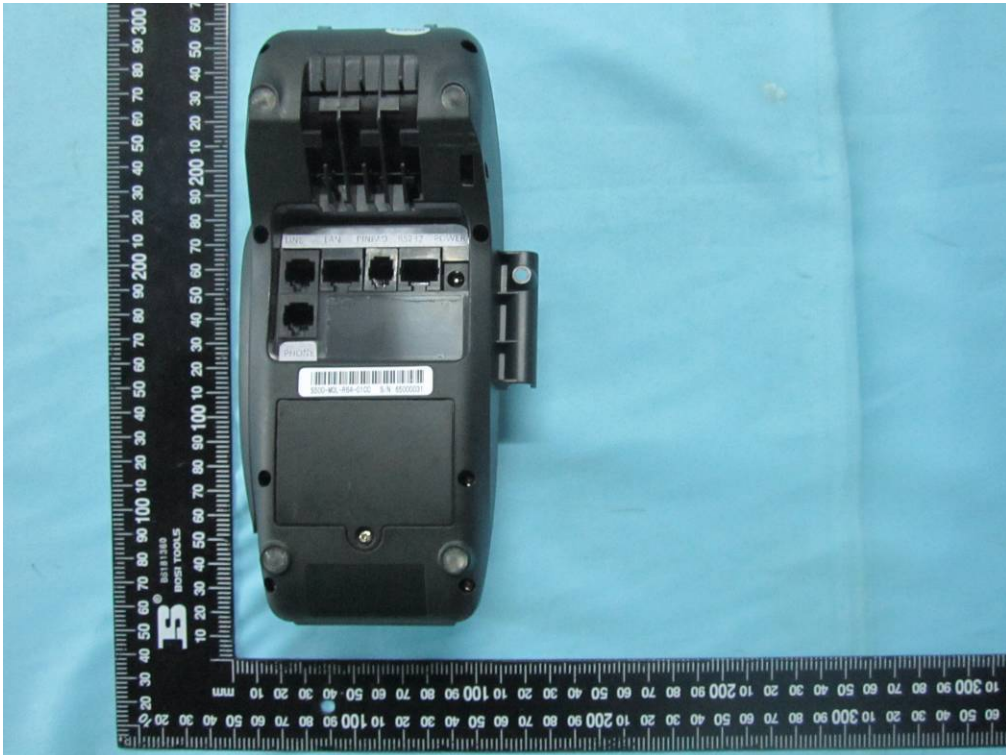
Whole Package - Top View



Adapter – Front View



EUT - Top View



EUT - Bottom View



EUT – Front View



EUT – Rear View

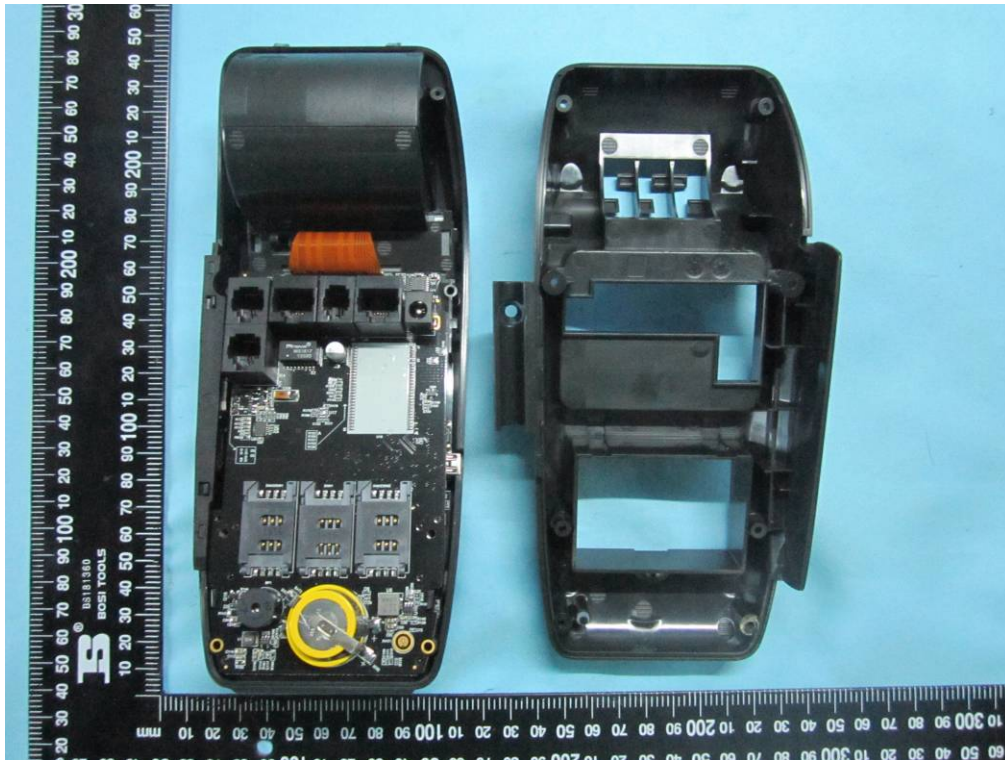


EUT – Left View

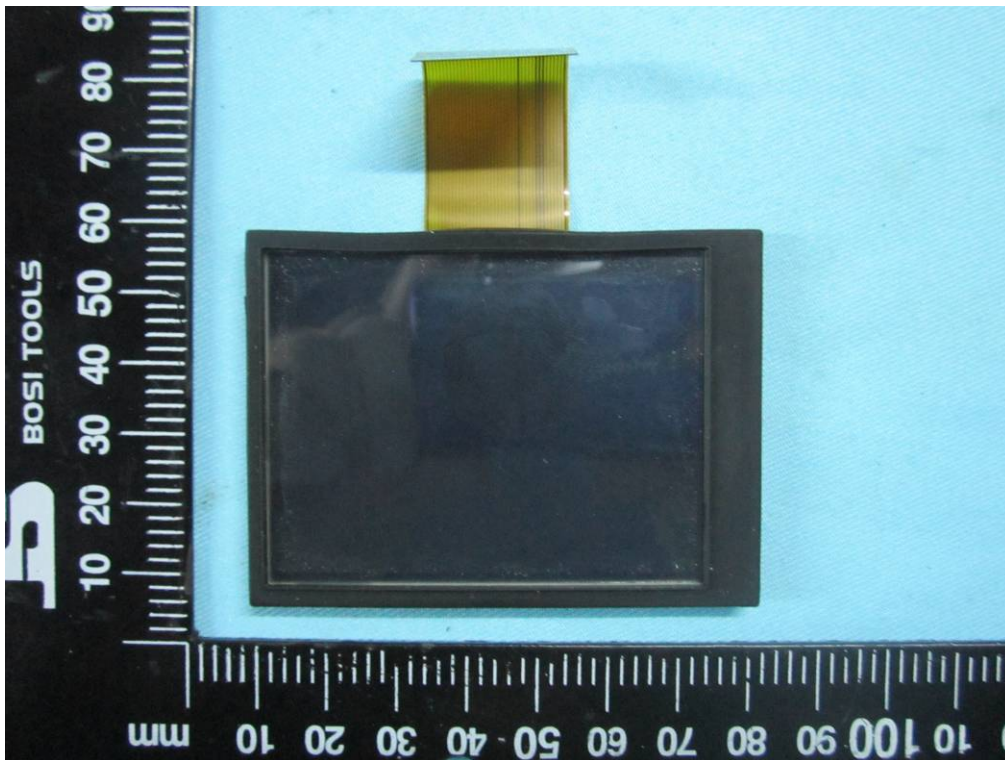


EUT – Right View

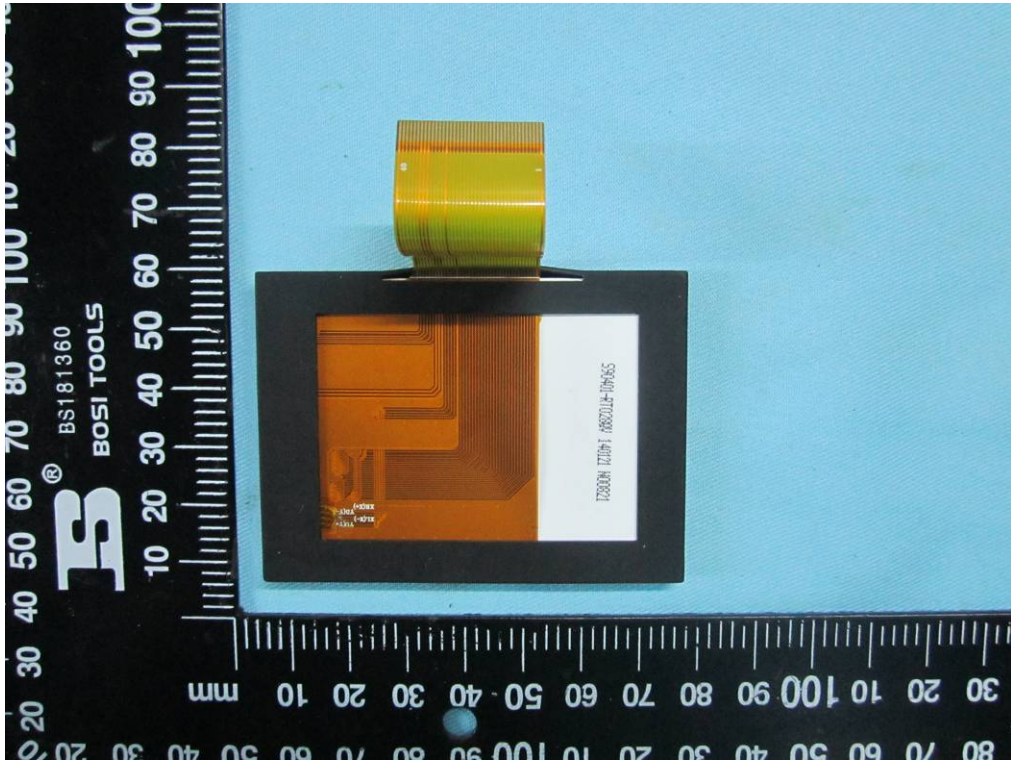
Annex B.i. Photograph 2: EUT Internal Photo



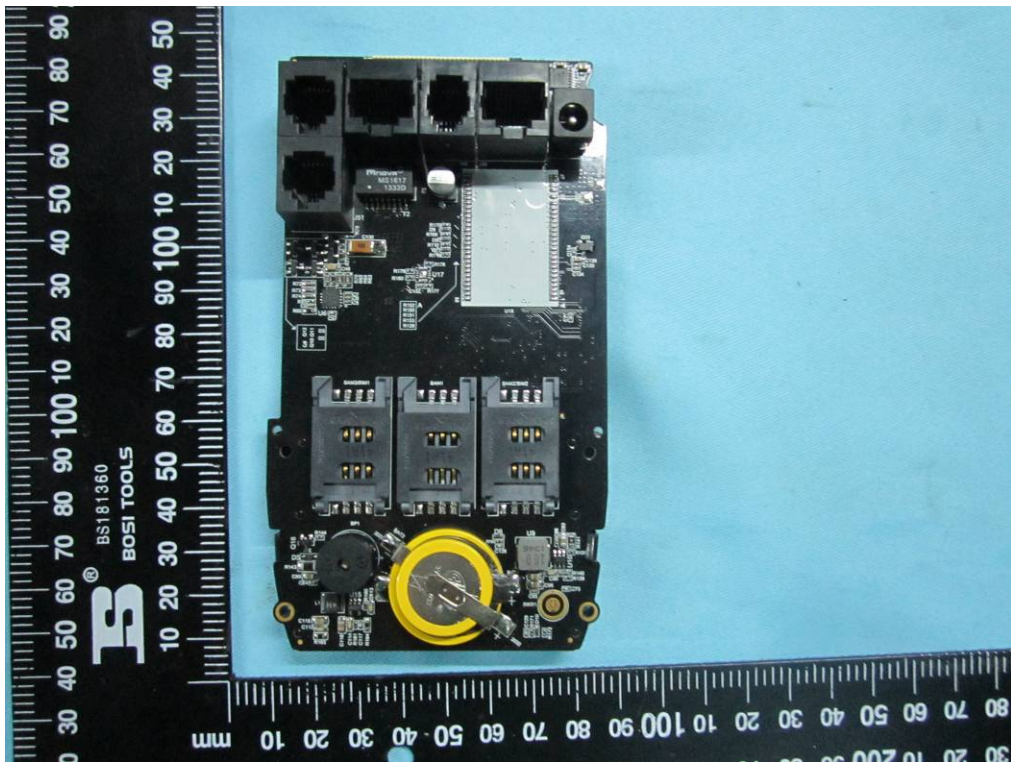
Cover Off - Top View



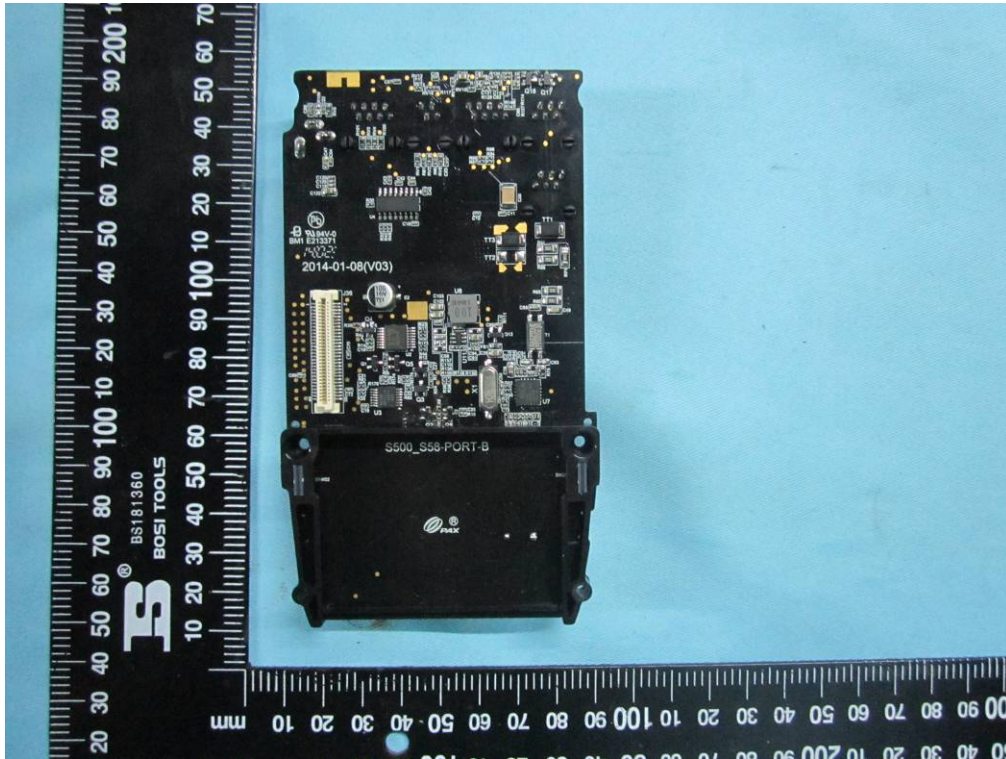
LED - Top View



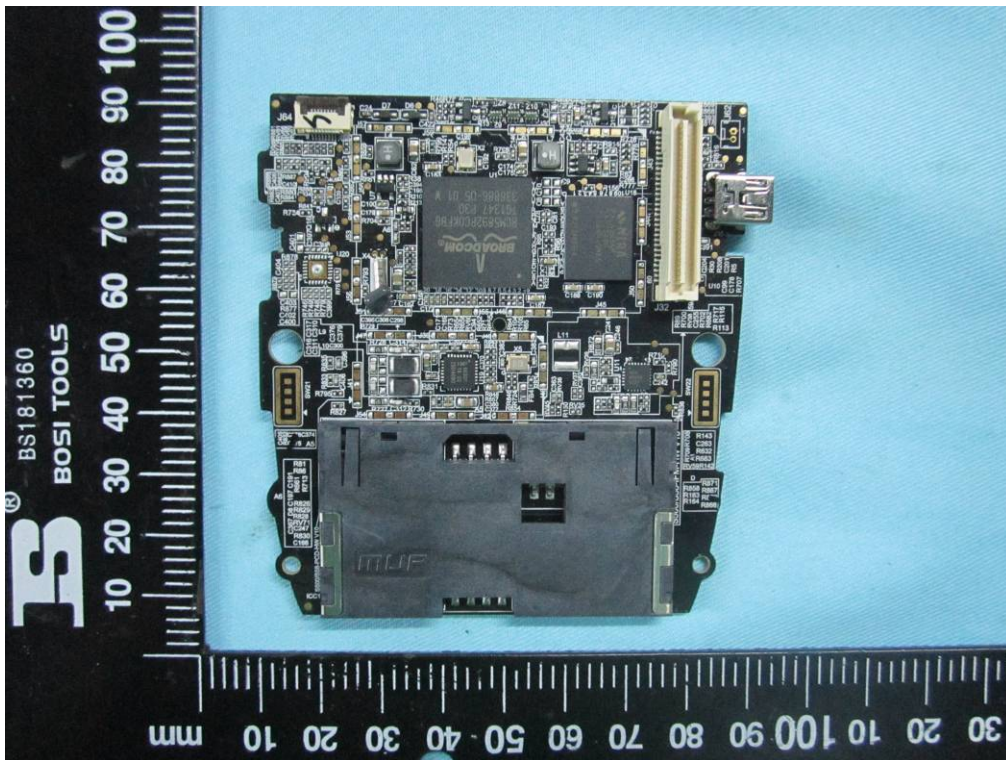
LED - Bottom View



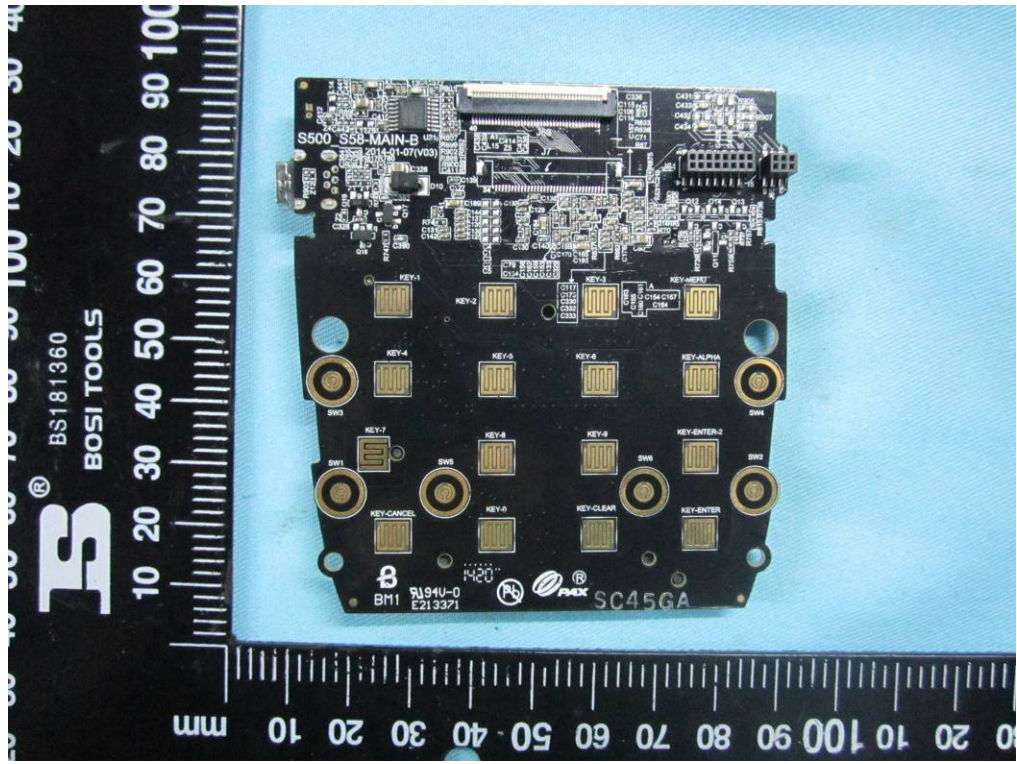
Mainboard - Front View



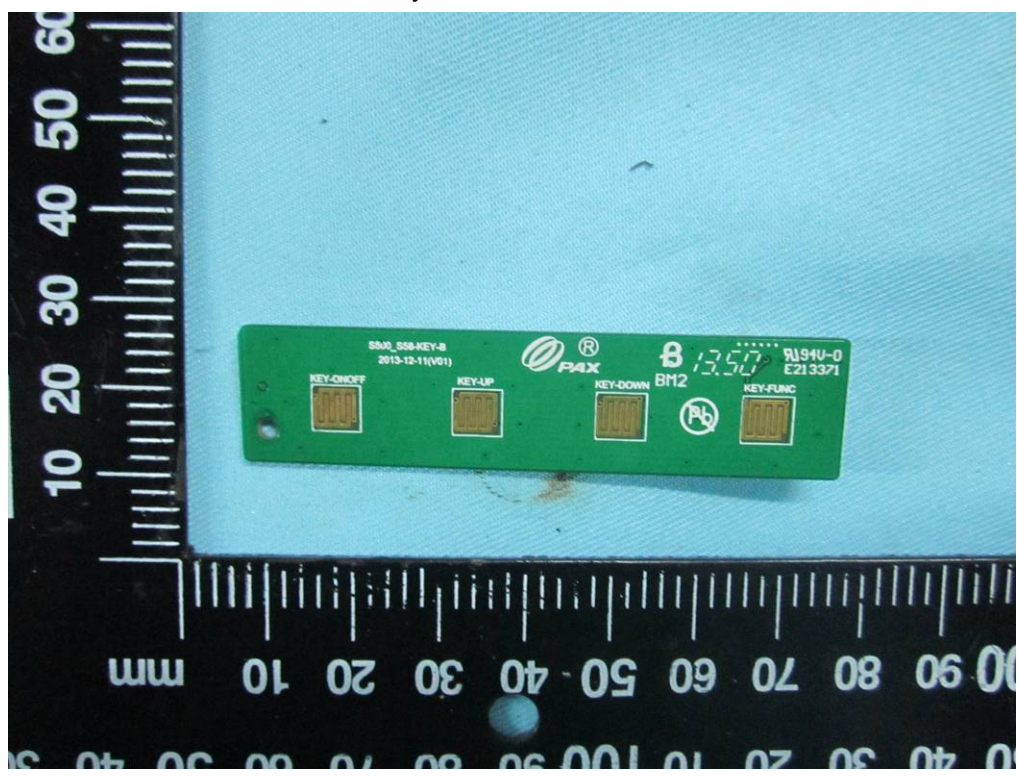
Mainboard - Rear View



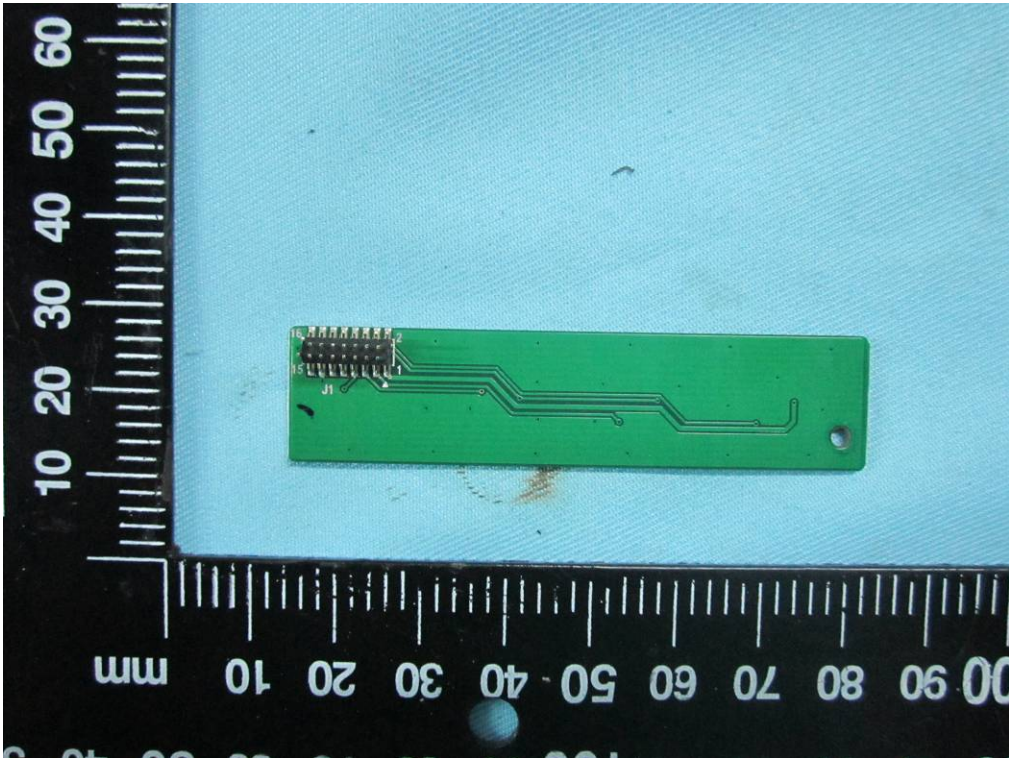
Keyboard 1 - Front View



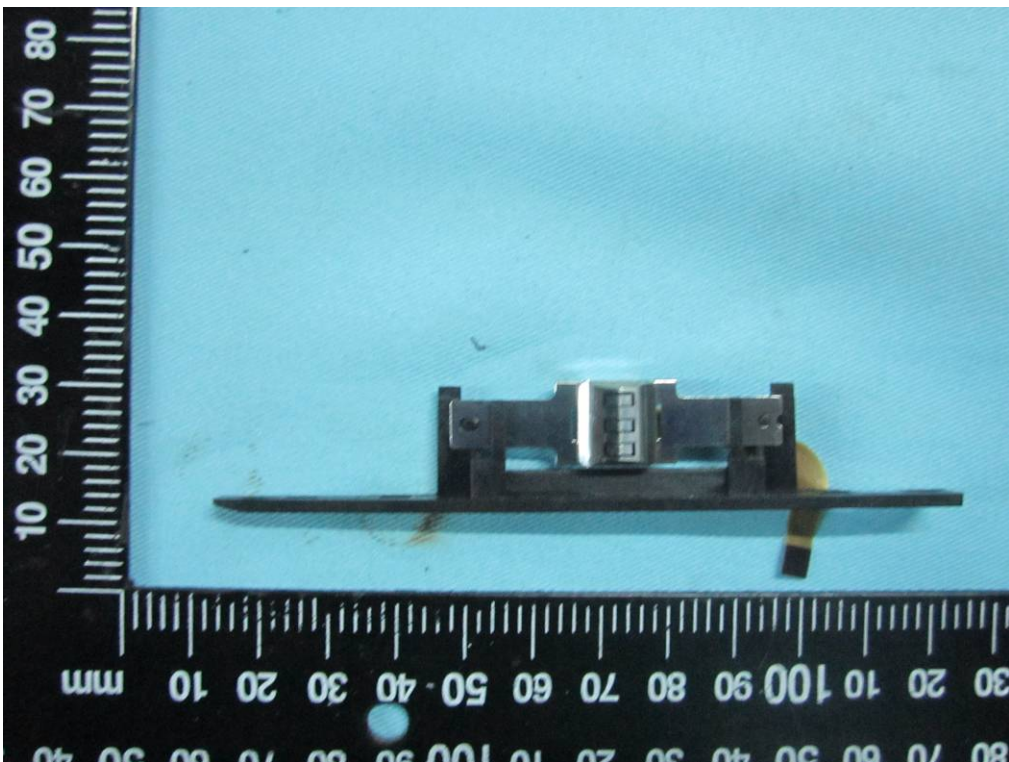
Keyboard 1 - Rear View



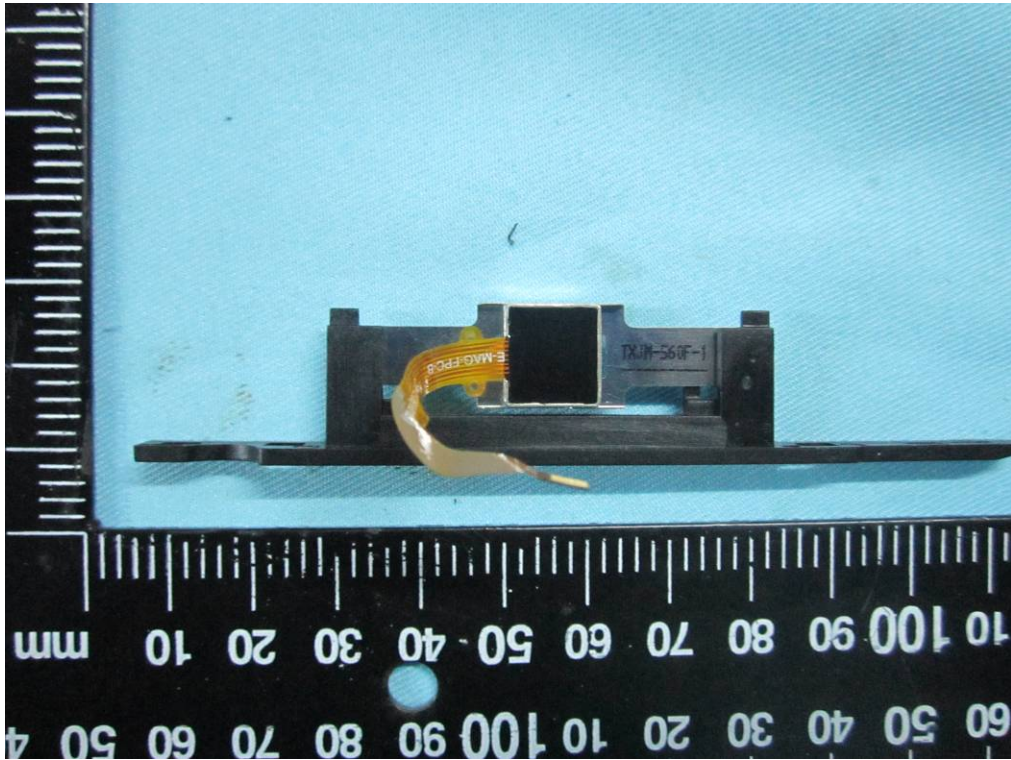
Keyboard 2 - Front View



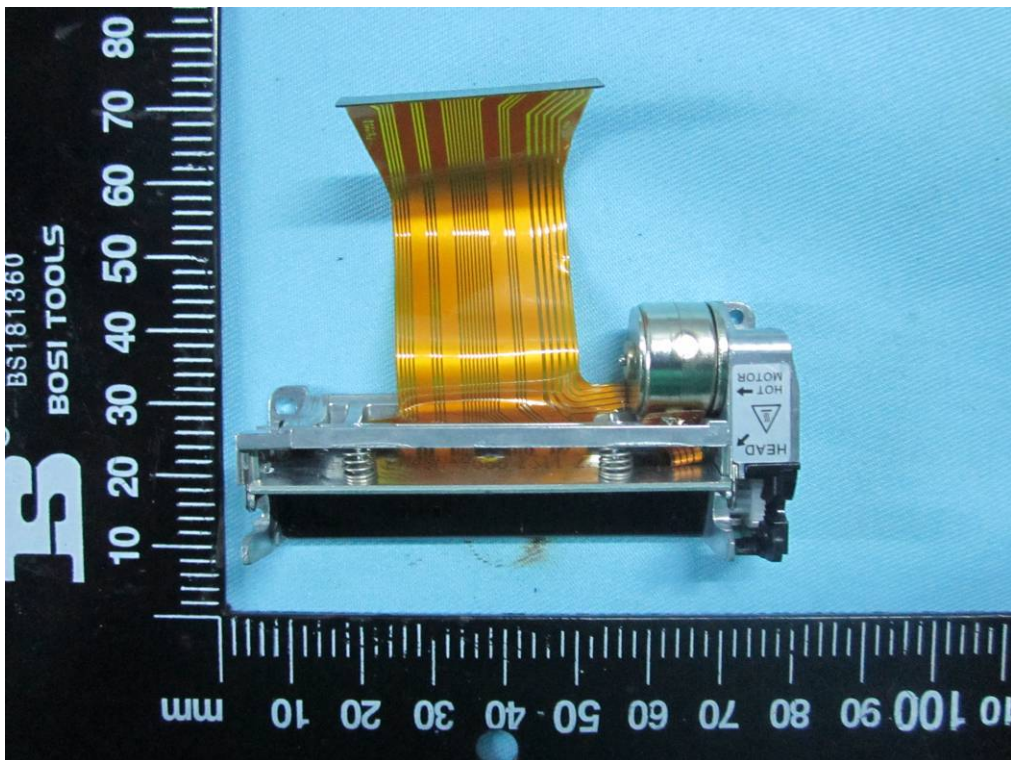
Keyboard 2 - Rear View



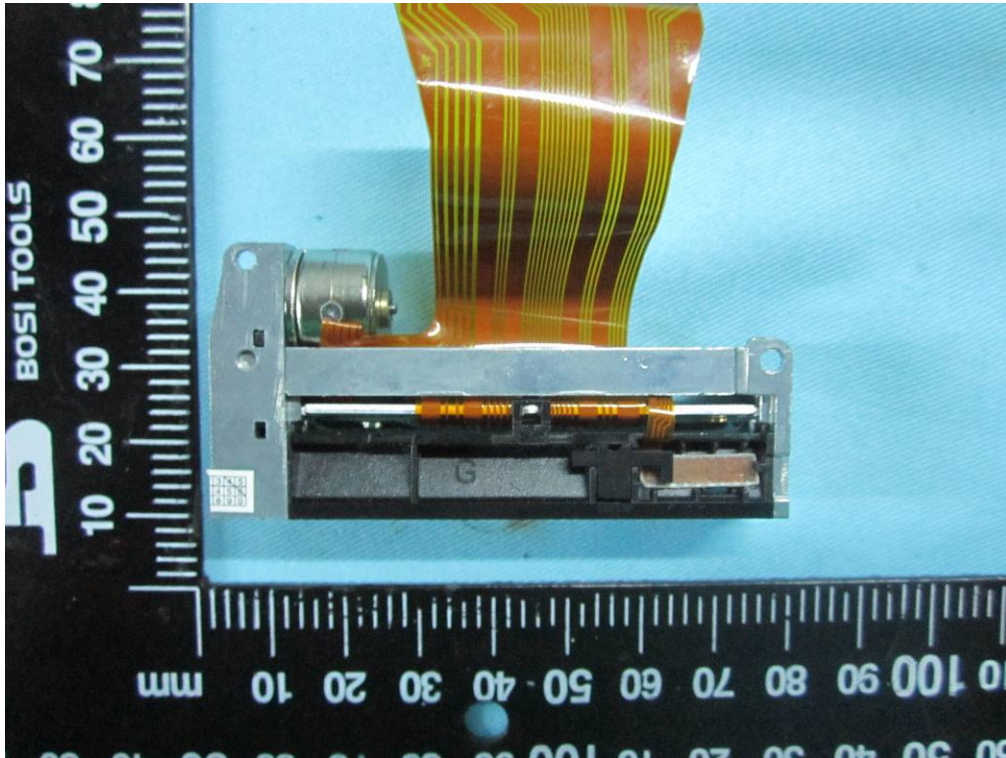
Magnetic Sensor - Front View



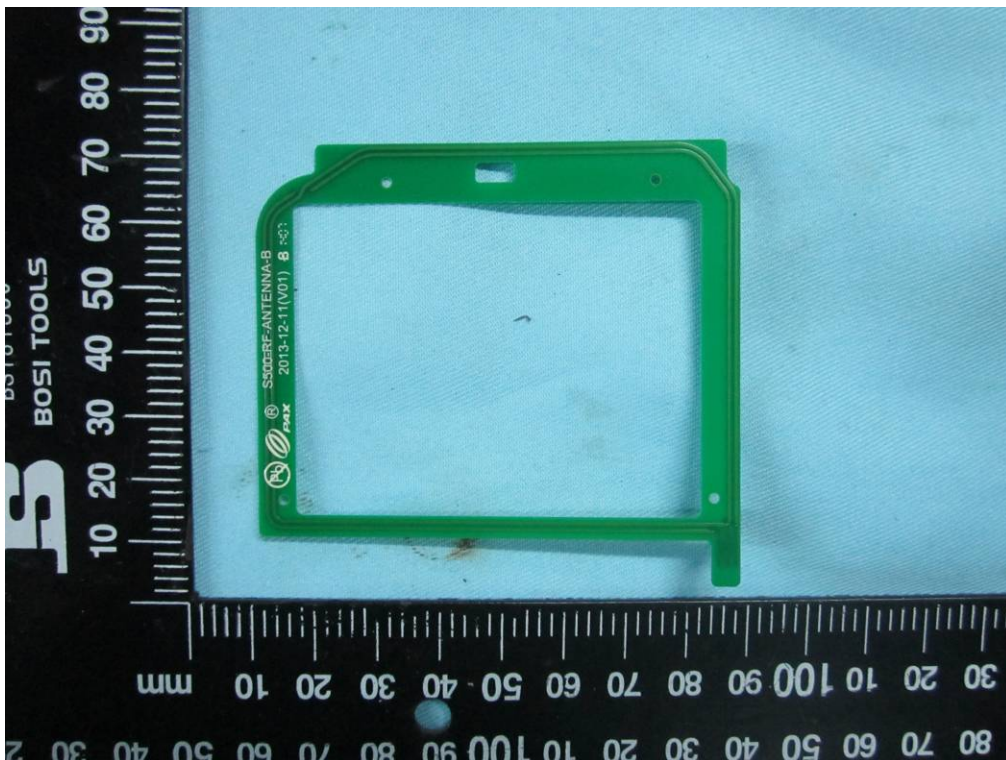
Magnetic Sensor - Rear View



Motor - Front View



Motor – Rear View



13.56MHz Antenna – View

Annex B.iii. Photograph 1: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View

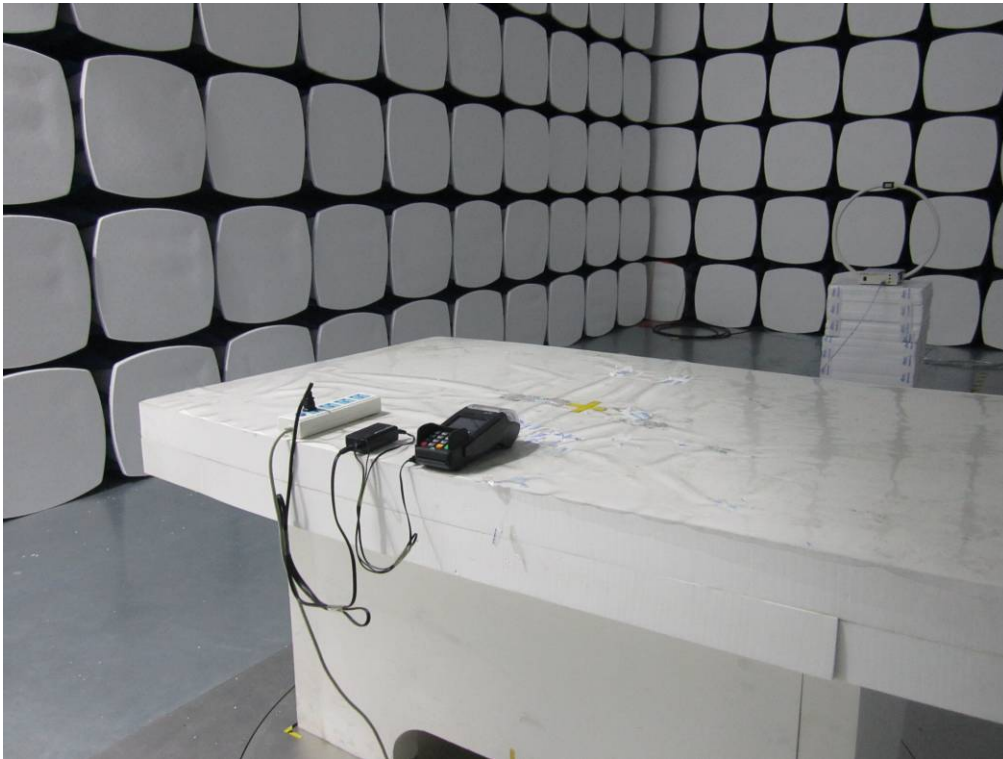


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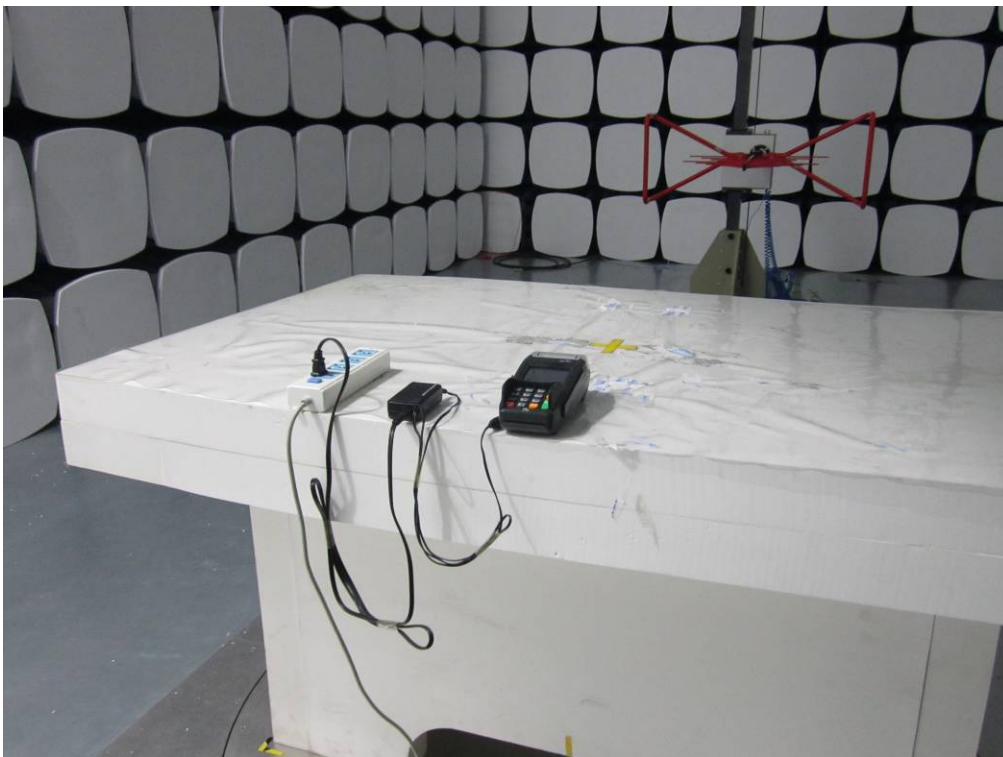
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Title: RF Test Report for EFT-POS Terminal
Main Model: S500
Serial Model: N/A
To: FCC Part 15.225: 2013; ANSI C63.4: 2009

Report No: 14070371-FCC-R1
Issue Date: August 11, 2014
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Radiated Spurious Emissions Test Setup Below 30MHz - Front View



Radiated Spurious Emissions Test Setup Above 30MHz -Front View

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
N/A	N/A	N/A



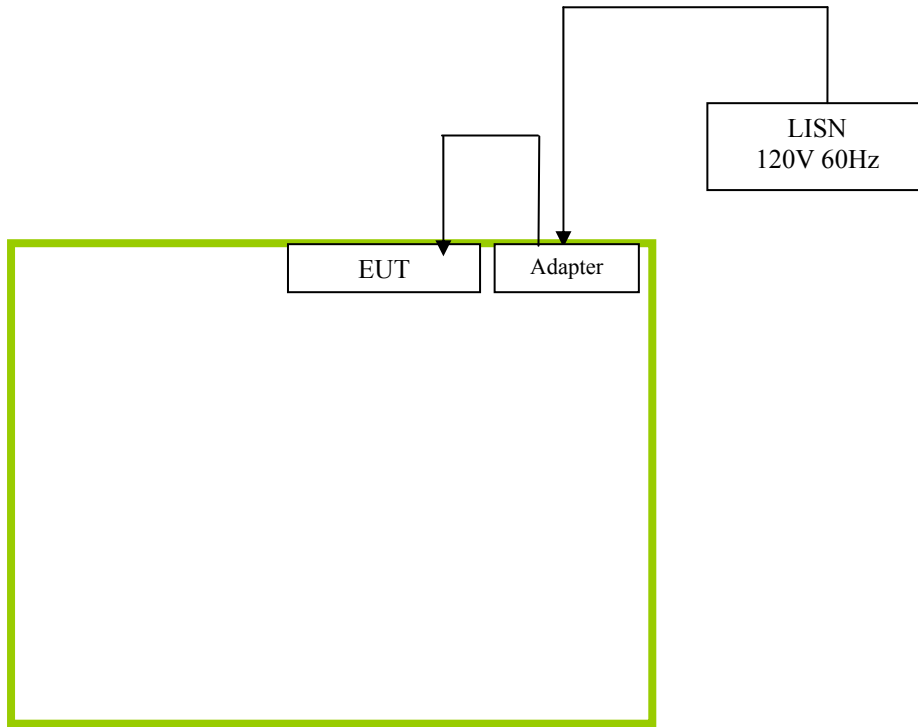
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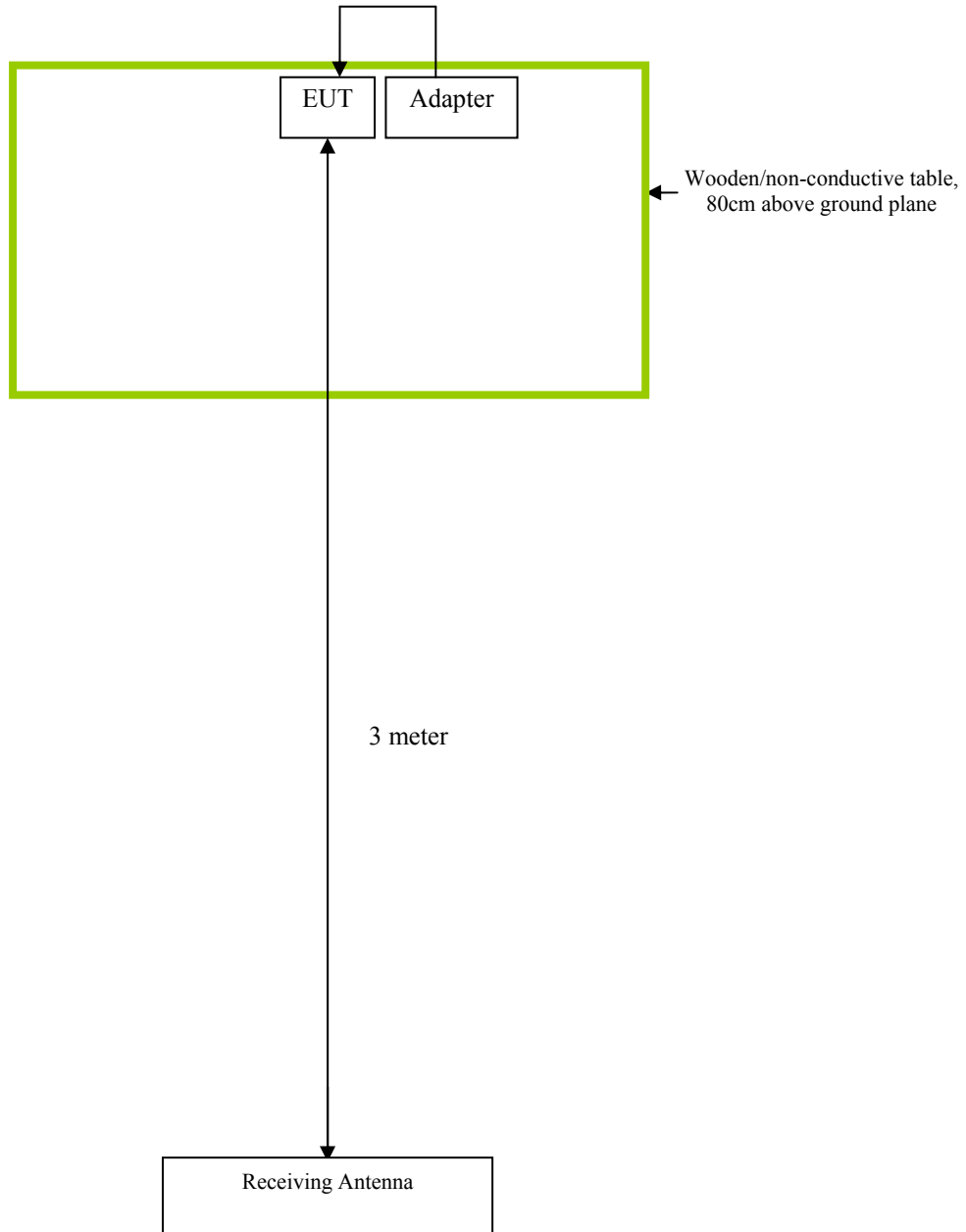
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Block Configuration Diagram for Conducted Emissions





Block Configuration Diagram for Radiated Emissions



Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was continuously transmitting to stimulate the worst case.



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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

NONE