

# PAX Technology Limited

## EFT-POS Terminal

Main Model: S500

Serial Model: N/A

August 06, 2014




Report No.: 14070371-FCC-E1

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
<b>Kahn Yang</b> Compliance Engineer	<b>Alex Liu</b> Technical Manager	

This test report may be reproduced in full only.  
Test result presented in this test report is applicable to the representative sample only.

# EMC Test Report

To: FCC Part 15 Subpart B Class B; 2013; ANSI C63.4: 2009

**SIEMIC, INC.**  
Accessing global markets



## Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to [testing](#) and [certification](#), SIEMIC provides initial design reviews and [compliance management](#) through out a project. Our extensive experience with [China](#), [Asia Pacific](#), [North America](#), [European](#), and [international](#) compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the [global markets](#).

### SIEMIC (Shenzhen-China) Laboratories Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
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



**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 3 of 38  
[www.siemic.com.cn](http://www.siemic.com.cn)

---

This page has been left blank intentionally.



# CONTENTS

<b>1</b>	<b>EXECUTIVE SUMMARY &amp; EUT INFORMATION .....</b>	<b>5</b>
<b>2</b>	<b>TECHNICAL DETAILS.....</b>	<b>6</b>
<b>3</b>	<b>MODIFICATION.....</b>	<b>7</b>
<b>4</b>	<b>TEST SUMMARY.....</b>	<b>8</b>
<b>5</b>	<b>MEASUREMENTS, EXAMINATION AND DERIVED RESULTS.....</b>	<b>9</b>
	<b>ANNEX A. TEST INSTRUMENTATION &amp; GENERAL PROCEDURES .....</b>	<b>14</b>
	<b>ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS .....</b>	<b>20</b>
	<b>ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....</b>	<b>33</b>
	<b>ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST .....</b>	<b>37</b>
	<b>ANNEX E. DECLARATION OF SIMILARITY .....</b>	<b>38</b>



**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 5 of 38  
www.siemic.com.cn

## **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 Subpart B Class B: 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 : Class B Emission Product Per  
FCC Part 15 Subpart B Class B: 2013, ANSI C63.4: 2009**



## 2 TECHNICAL DETAILS

<b>Purpose</b>	<b>Compliance testing of EFT-POS Terminal with stipulated standards</b>
<b>Applicant / Client</b>	<b>PAX Technology Limited Room 2416, 24/F., Sun Hung Kai Centre 30 Harbour Road Wanchai China</b>
<b>Manufacturer</b>	<b>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.</b>
<b>Laboratory performing the tests</b>	<b>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</b>
<b>Test report reference number</b>	<b>14070371-FCC-E1</b>
<b>Date EUT received</b>	<b>July 17, 2014</b>
<b>Standard applied</b>	<b>FCC Part 15 Subpart B Class B: 2013, ANSI C63.4: 2009</b>
<b>Dates of test (from – to)</b>	<b>July 22 to July 23, 2014</b>
<b>No of Units</b>	<b>#1</b>
<b>Equipment Category</b>	<b>Class B Emission Product</b>
<b>Trade Name</b>	<b>PAX</b>
<b>FCC ID</b>	<b>V5PS500RF</b>



**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 7 of 38  
[www.siemic.com.cn](http://www.siemic.com.cn)

## **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:

### Class B Emission Product

#### Test Results Summary

Emissions			
Test Standard	Description	Product Class	Pass / Fail
FCC Part 15 Subpart B Class B: 2013, ANSI C63.4: 2009	Conducted Emissions	See Above	Pass
FCC Part 15 Subpart B Class B: 2013, ANSI C63.4: 2009	Radiated Emissions	See Above	Pass

All measurement uncertainty is not taken into consideration for all presented test result.





## **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

### **5.1 Conducted Emissions Test Result**

*Note:*

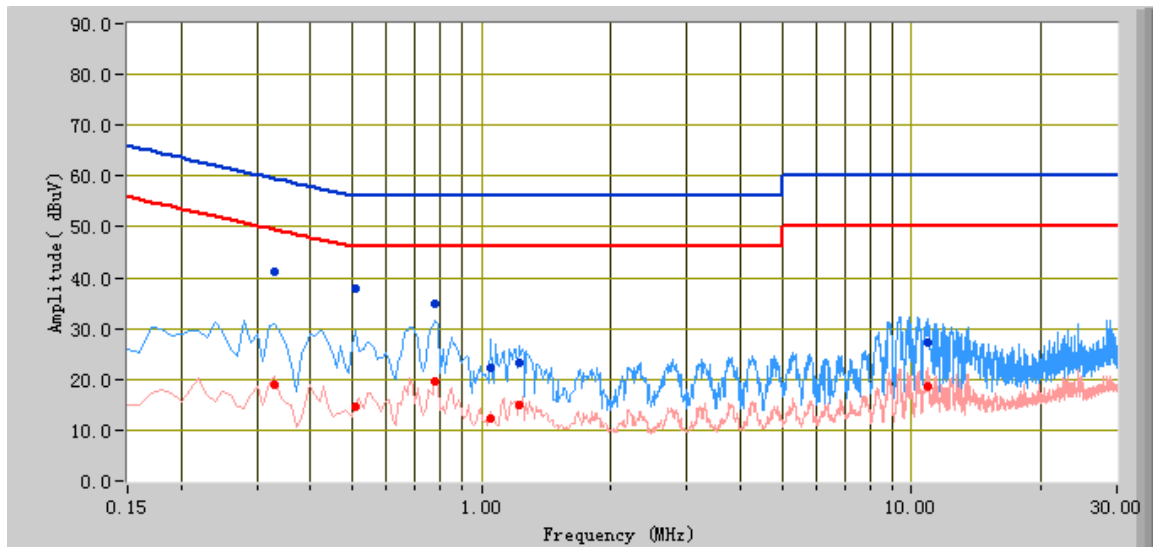
1. All possible modes of operation were investigated. Only the several worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line 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  $\pm 3.86\text{dB}$ .
4. Environmental Conditions  

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

**Test Result: Pass**

<b>Test Mode:</b>	<b>Normal Working for USB Mode worst case</b>
-------------------	---

Peak Detector		Quasi Peak Limit	
Average Detector		Average Limit	



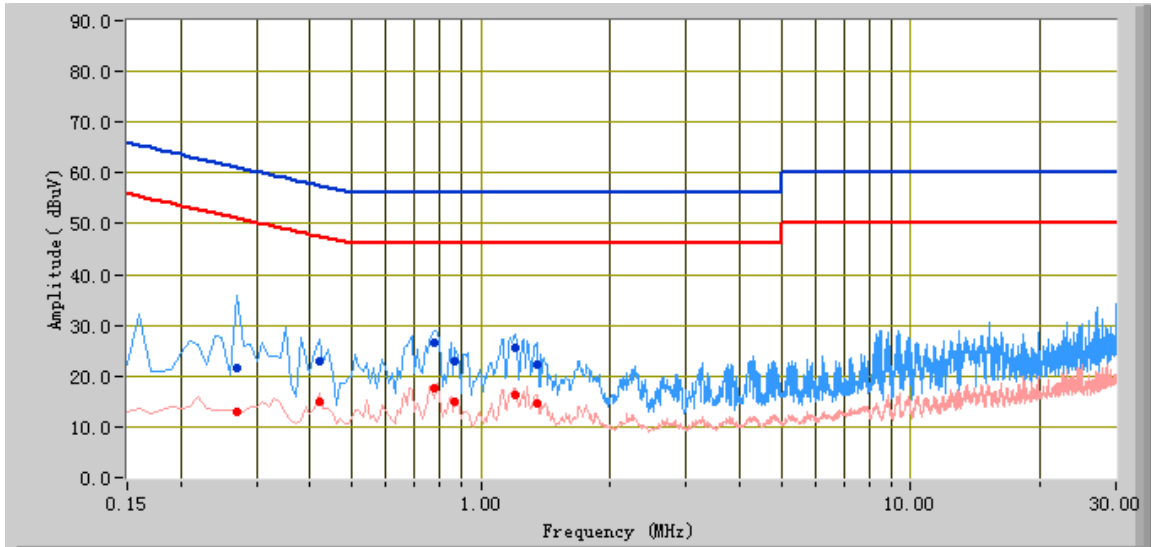
**Test Data**

**Phase Line Plot at 120V AC, 60Hz**

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.78	34.72	56.00	-21.28	19.50	46.00	-26.50	10.41
0.51	37.86	56.00	-18.14	14.60	46.00	-31.40	10.57
1.05	22.34	56.00	-33.66	12.24	46.00	-33.76	10.28
0.33	41.34	59.45	-18.11	18.88	49.45	-30.57	11.34
1.22	23.41	56.00	-32.59	14.93	46.00	-31.07	10.30
10.94	27.29	60.00	-32.71	18.48	50.00	-31.52	12.21

<b>Test Mode:</b>	<b>Normal Working for USB Mode worst case</b>
-------------------	---

Peak Detector		Quasi Peak Limit	
Average Detector		Average Limit	



**Test Data**



**Phase Natural Plot at 120V AC, 60Hz**

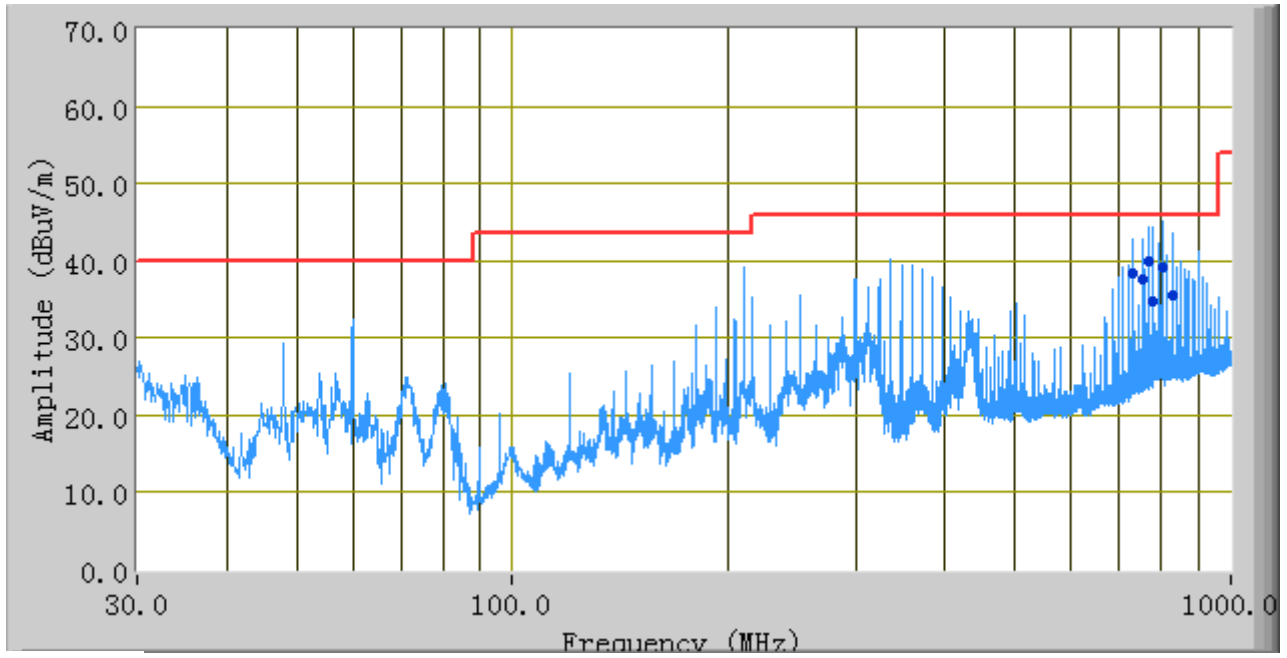
Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.27	21.71	61.12	-39.41	12.81	51.12	-38.31	11.68
0.78	26.63	56.00	-29.37	17.55	46.00	-28.45	10.41
1.20	25.65	56.00	-30.35	16.38	46.00	-29.62	10.30
1.35	22.38	56.00	-33.62	14.69	46.00	-31.31	10.32
0.42	22.78	57.45	-34.67	15.08	47.45	-32.37	10.91
0.87	23.00	56.00	-33.00	14.79	46.00	-31.21	10.36



<b>Test Mode:</b>	<b>Normal Working for USB Mode worst case</b>
-------------------	---

**Below 1GHz**

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)
803.82	39.07	239.00	H	104.00	3.54	46.00	-6.93
779.98	34.68	280.00	H	198.00	2.88	46.00	-11.32
768.10	39.99	231.00	H	110.00	2.53	46.00	-6.01
828.14	35.61	134.00	H	113.00	3.85	46.00	-10.39
732.09	38.46	227.00	H	255.00	1.45	46.00	-7.54
756.12	37.65	216.00	H	253.00	2.17	46.00	-8.35

*Note: The data above 1 GHz which below 20 dB to the limit was not recorded.*



**SIEMIC, Inc.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 14 of 38  
www.siemmic.com.cn

## **Annex A. TEST INSTRUMENTATION & GENERAL PROCEDURES**

### **Annex A.i. TEST INSTRUMENTATION**

<b>Instrument</b>	<b>Model</b>	<b>Serial #</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
<b>AC Line Conducted Emissions</b>				
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
Line Impedance Stabilization Network	LI-125A	191108	11/14/2013	11/13/2014
Line Impedance Stabilization Network	LI-125A	191109	11/14/2013	11/13/2014
LISN	ISN T800	34373	01/11/2014	01/10/2015
Transient Limiter	LIT-153	531118	09/02/2013	09/01/2014
<b>Radiated Emissions</b>				
EMI test receiver	ESL6	100262	11/23/2013	11/22/2014
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
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/23/2013	09/22/2014
Double Ridge Horn Antenna	AH-118	71259	11/20/2013	11/19/2014

**Annex A.ii. AC LINE CONDUCTED EMISSIONS TEST DESCRIPTION**

**AC Power Line Conducted Emissions Limits:**

**Class A:** An ITE meeting the conditions for Class A operation defined in Section 2.2 shall comply with the Class A conducted limits set out in Table 1.

**Table 1 – Class A Conducted Limits**

Frequency (MHz)	Class A Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15 to 0.5	79	66
0.5 to 30	73	60

**Class B:** An ITE that does not meet the conditions for Class A operation shall comply with the Class B conducted limits set out in Table 2.

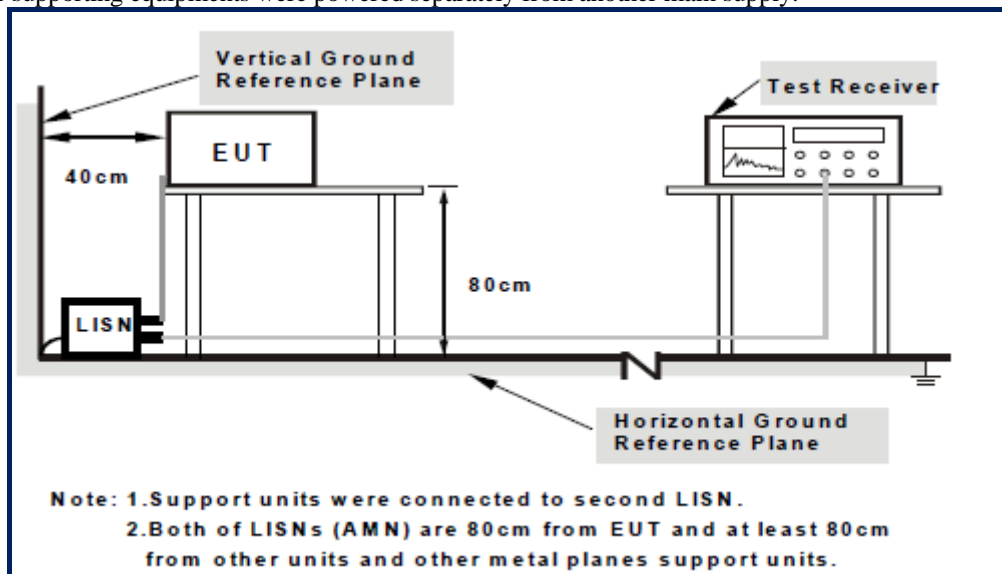
**Table 2 – Class B Conducted Limits**

Frequency (MHz)	Class B Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

\* Decreases with the logarithm of the frequency.

**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 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a 50Ω/50µH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1



### Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### Description of Conducted Emission 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 common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.

### Sample Calculation Example

At 20 MHz

limit =  $250 \mu\text{V} = 47.96 \text{ dB}\mu\text{V}$

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB $\mu\text{V}$   
(Calibrated for system losses)

Therefore, Q-P margin =  $47.96 - 40.00 = 7.96$  i.e. **7.96 dB below limit**



## Annex A. iii. RADIATED EMISSIONS TEST DESCRIPTION

### EUT Characterization

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> 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 0.8 m 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.

### Radiated Emissions Limits

Radiated emissions from an ITE shall be measured from the lowest frequency generated, or used, in the device or 30 MHz, whichever is higher, up to the frequency determined in accordance with Table 3.

**Table 3 – Frequency Range of Measurement**

Highest Frequency Generated or Used in Device	Upper Frequency of Radiated Measurement
Below 1.705 MHz	No radiated testing required
1.705 MHz – 108 MHz	1 GHz
108 MHz – 500 MHz	2 GHz
500 MHz – 1 GHz	5 GHz
Above 1 GHz	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified in this Section. Measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be demonstrated that measurements at a distance of 30 meters or less are not practical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements).

### Radiated Emissions Limits below 1 GHz

**Class A:** An ITE meeting the conditions for Class A operation defined in Section 2.2 shall comply with the Class A radiated limits set out in Table 4 determined at a distance of 10 meters.

**Table 4 – Class A Radiated Limits below 1 GHz**

Frequency (MHz)	Class A Radiated Limit (dBµV/m)
	Quasi-peak
30 to 88	39
88 to 216	43.5
216 to 960	46.4
960 to 1000	49.5

**Class B:** An ITE that does not meet the conditions for Class A operation shall comply with the Class B radiated limits set out in Table 5 determined at a distance of 3 meters.

**Table 5 – Class B Radiated Limits below 1 GHz**

Frequency (MHz)	Class B Radiated Limit (dBµV/m)
	Quasi-peak
30 to 88	40
88 to 216	43.5
216 to 960	46
960 to 1000	54

**Radiated Emissions Limits above 1 GHz**

Radiated disturbance measurements above 1 GHz shall be performed over the frequency range determined from Table 3. The appropriate average detector to carry out radiated disturbance measurements above 1 GHz shall be the linear average detector as defined in CISPR 16-1-1. Class A: An ITE meeting the conditions for Class A equipment shall comply with the **Class A**: Radiated limits set out in Table 6 determined at a distance of 10 meters.

**Table 6** – Class A Radiated Limits above 1 GHz

Frequency (MHz)	Class A Radiated Limit (dBµV/m)	
	Linear Average Detector	Peak Detector
> 1000	49.5	69.5

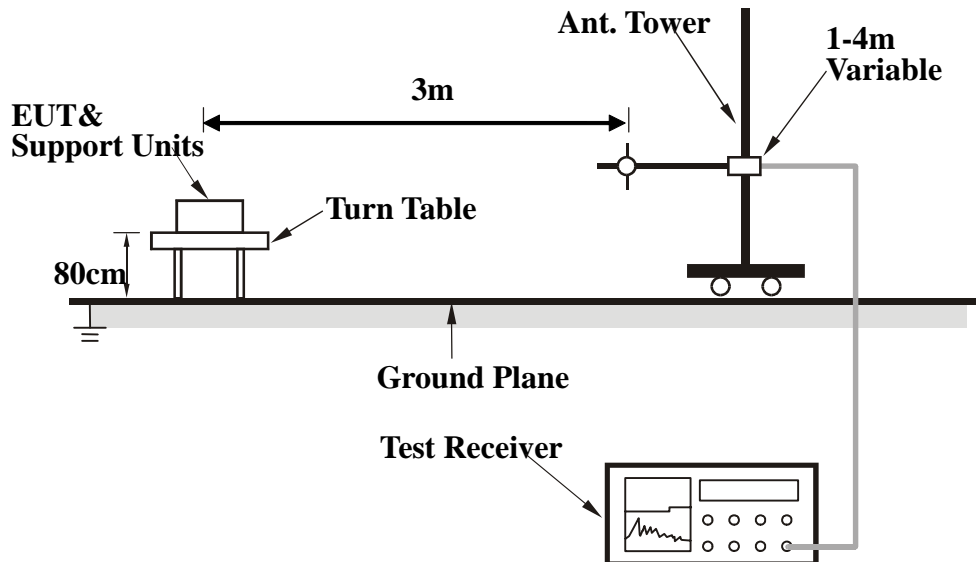
**Class B**: An ITE that does not meet the conditions for Class A equipment shall comply with the Class B radiated limits set out in Table 7 determined at a distance of 3 meters.

**Table 7** – Class B Radiated Limits above 1 GHz

Frequency (MHz)	Class B Radiated Limit (dBµV/m)	
	Linear Average Detector	Peak Detector
> 1000	54	74

**Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5mX1.0mX0.8m high, non-conductive 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.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration2

**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 1GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on an open test site. As the same purpose, for emission frequencies measured above 1GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1GHz, set the spectrum analyzer on a 100kHz and 1MHz 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	100kHz	100kHz
Above 1000	Peak	1MHz	1MHz
	Average	1MHz	10Hz

**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 1GHz. 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





**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 21 of 38  
www.siemic.com.cn



EUT - Top View



EUT - BottomView



**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 22 of 38  
www.siemic.com.cn



EUT – Front View



EUT – Rear View





**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 23 of 38  
www.siemic.com.cn

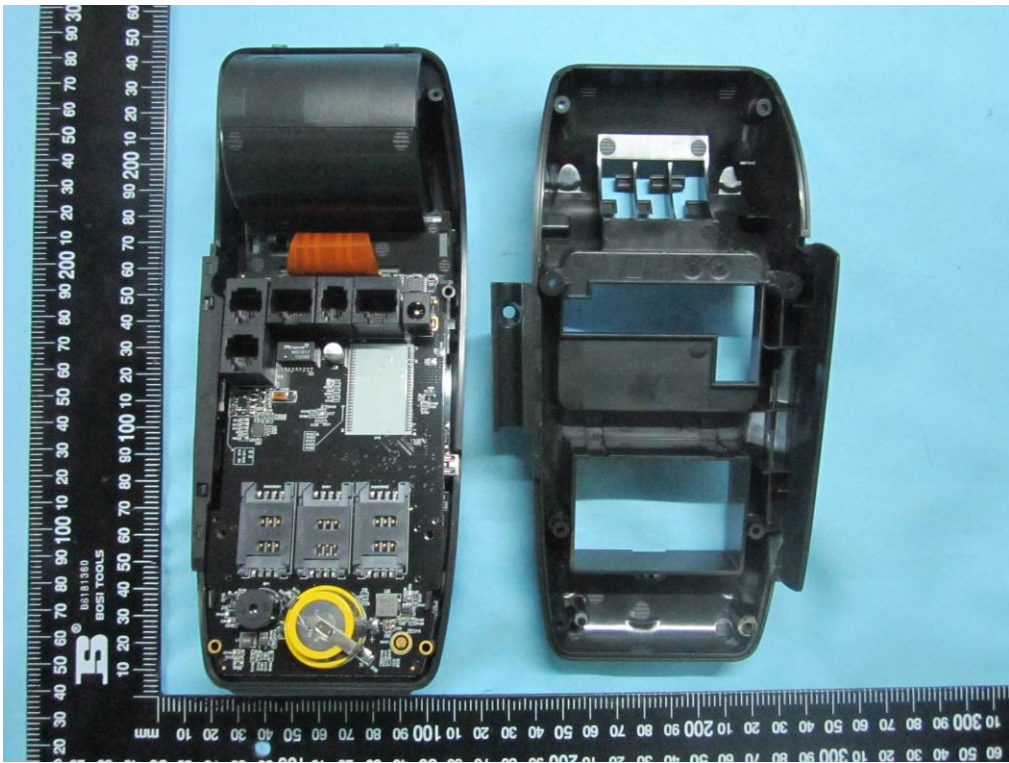


EUT – Left View

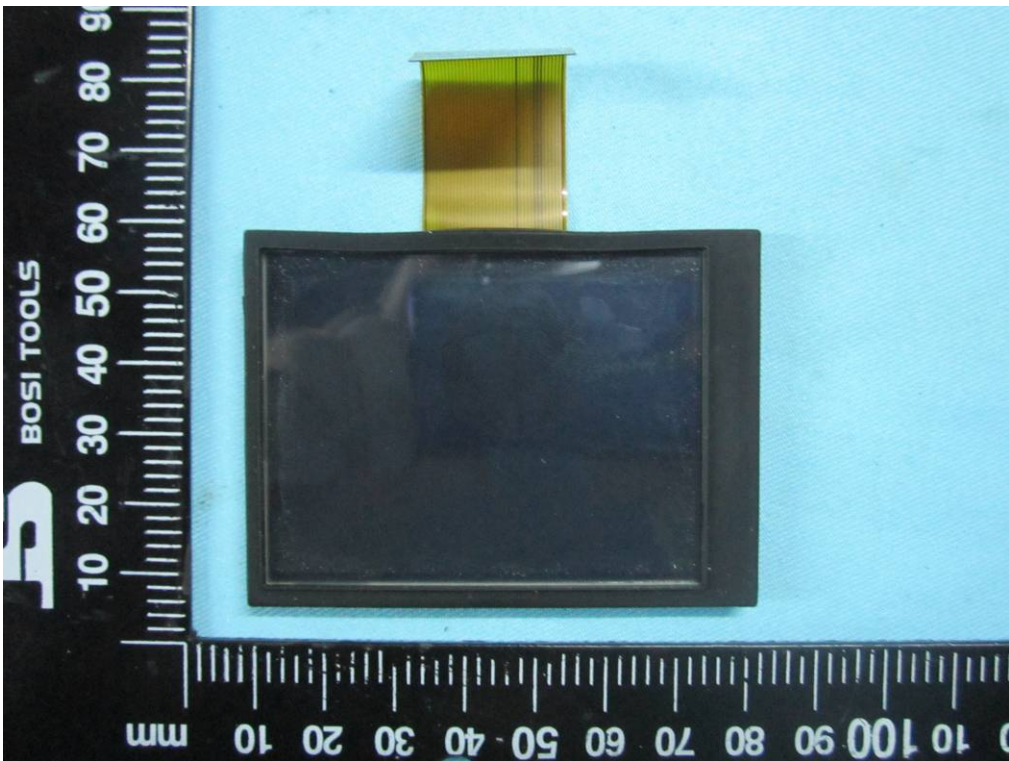


EUT – Right View

**Annex B.ii. Photograph 2: EUT Internal Photo**

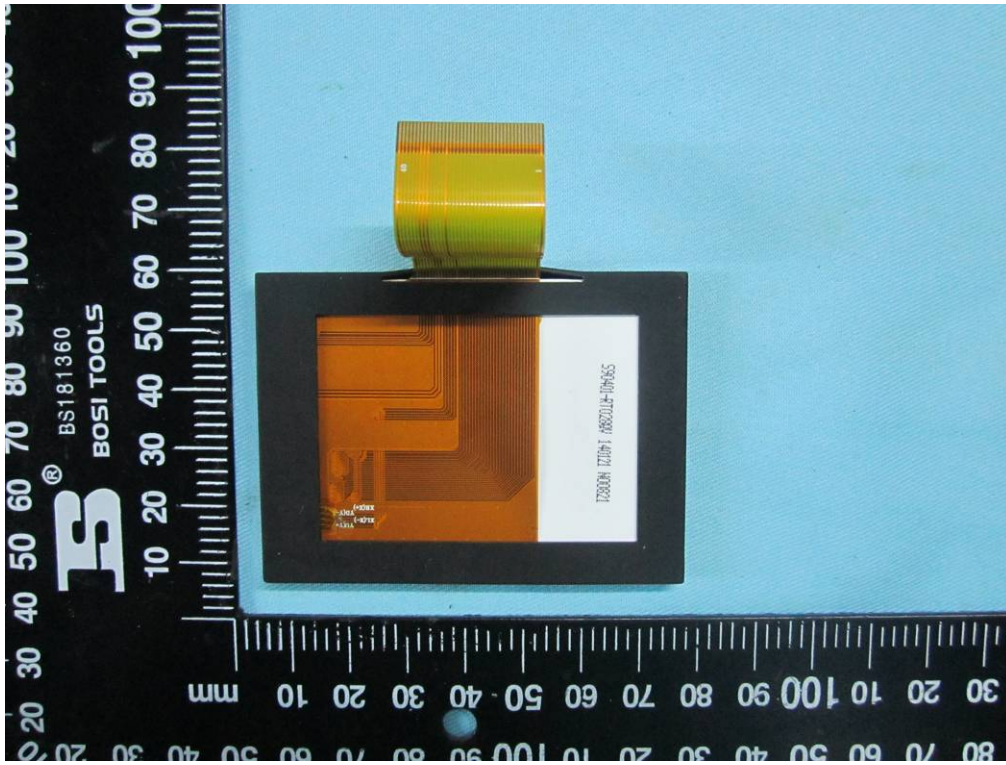


Cover Off - Top View

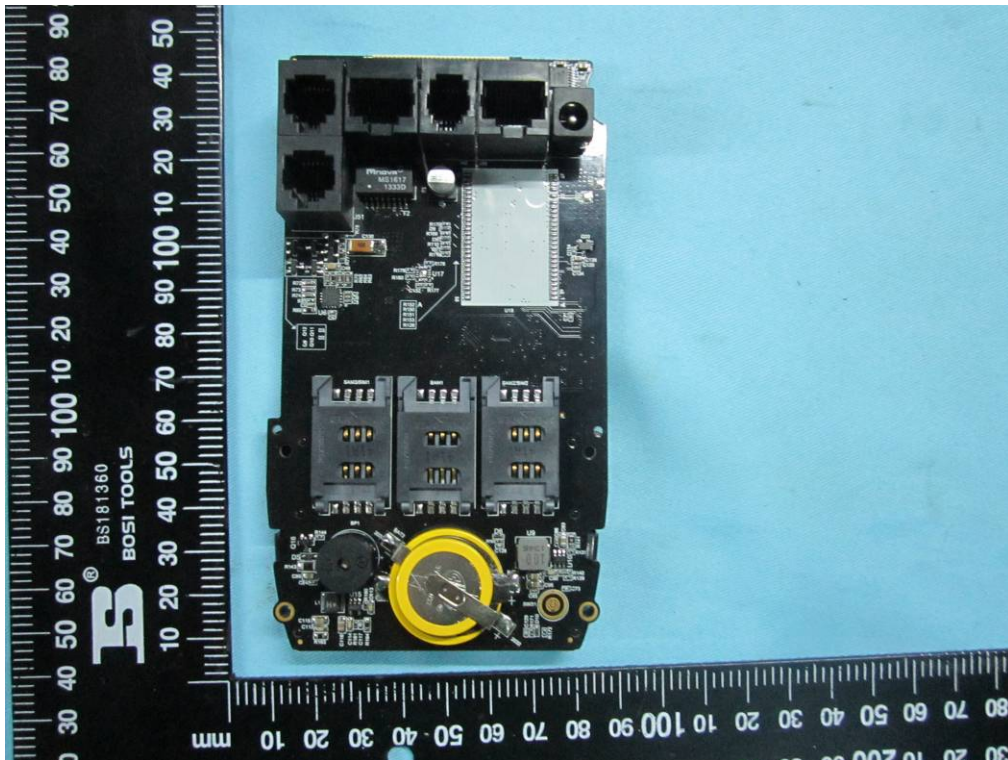


LED - Top View



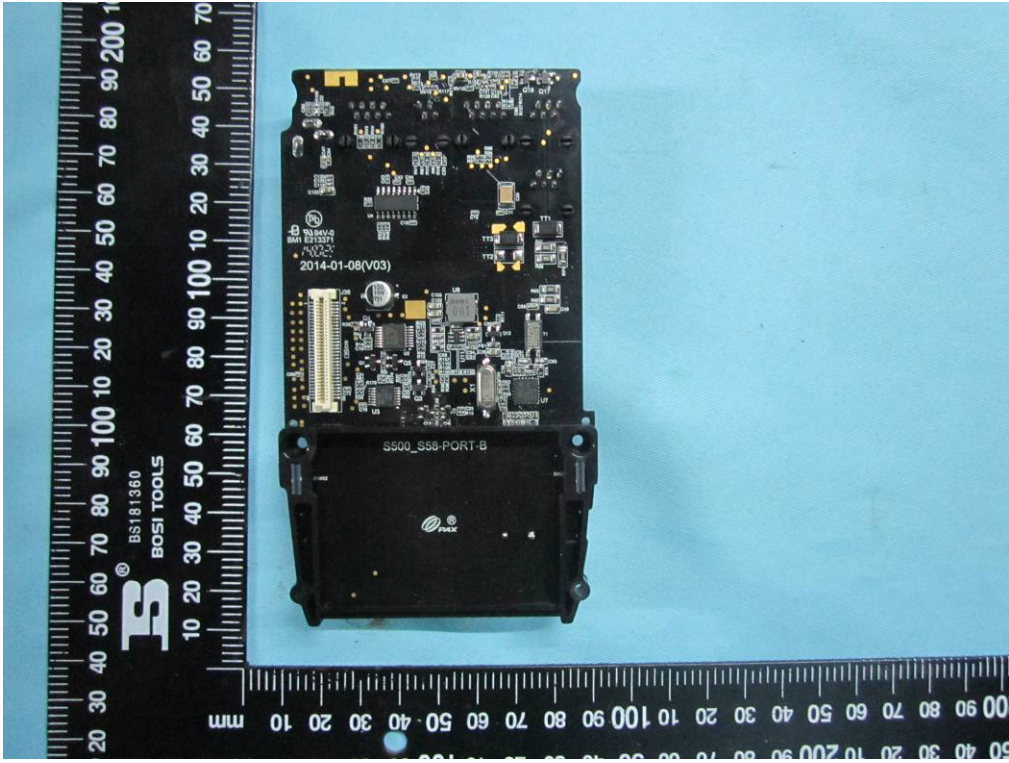


LED - Bottom View

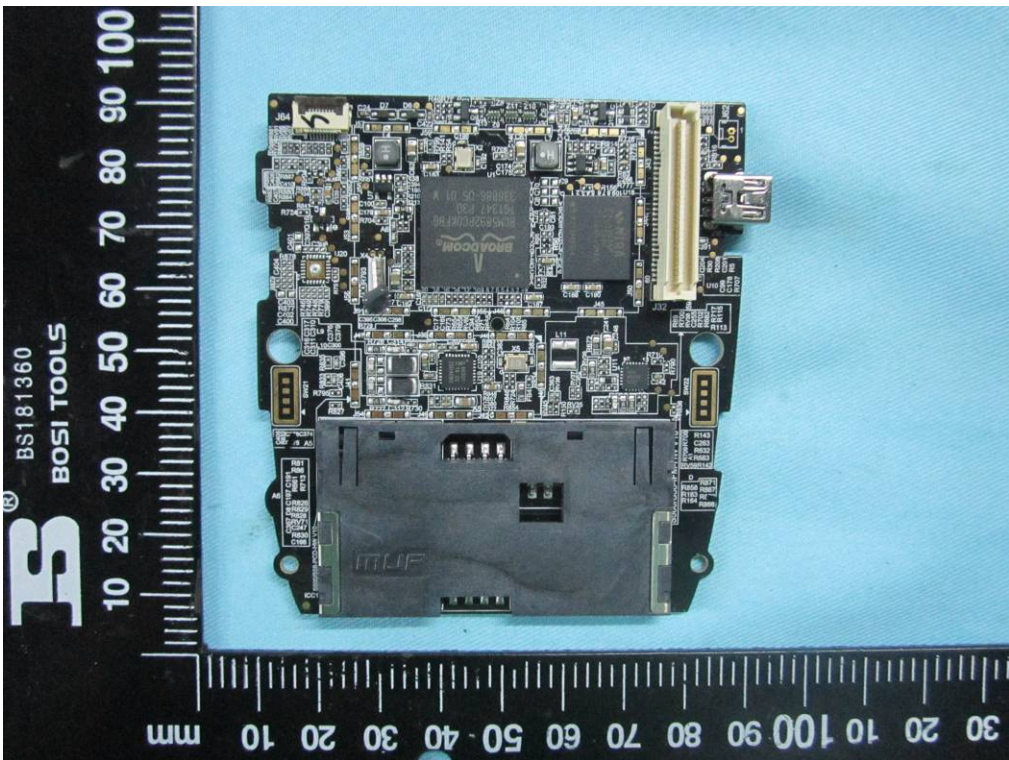


Mainboard - Front View



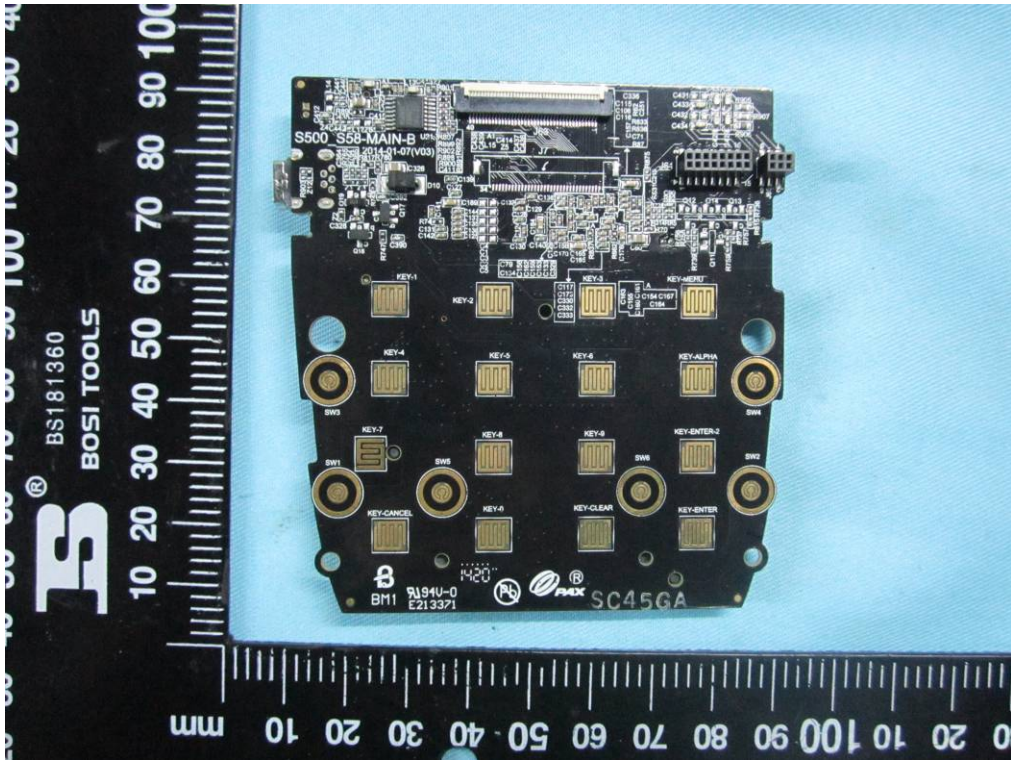


Mainborad - Rear View

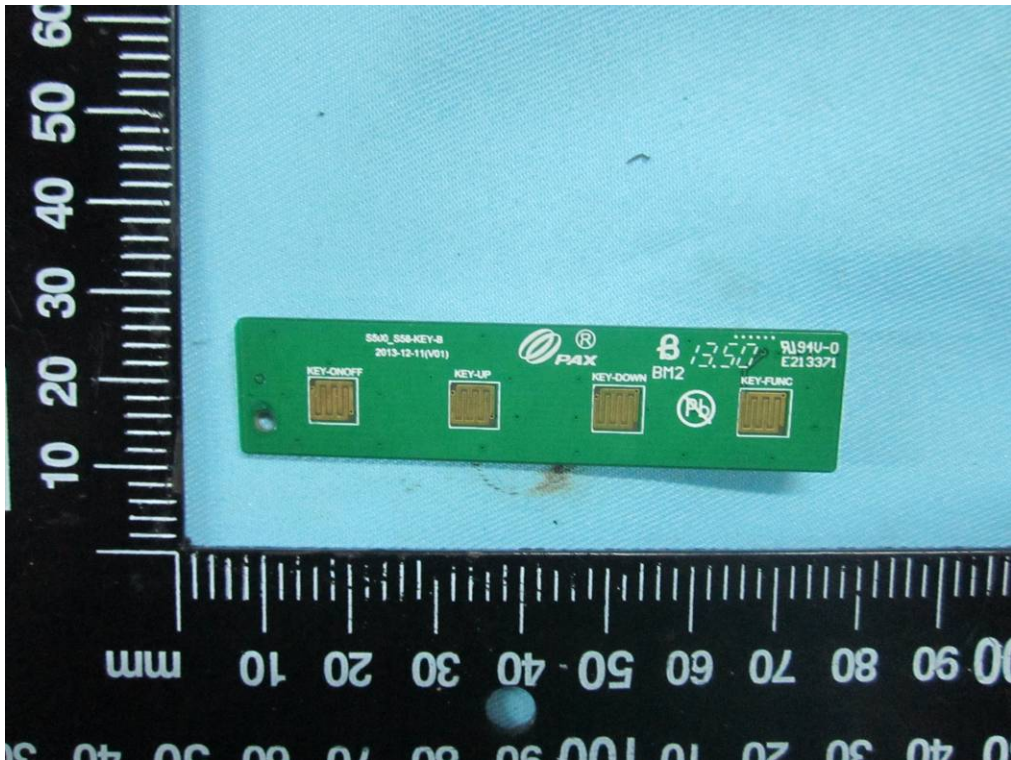


Keyboard 1 - Front View

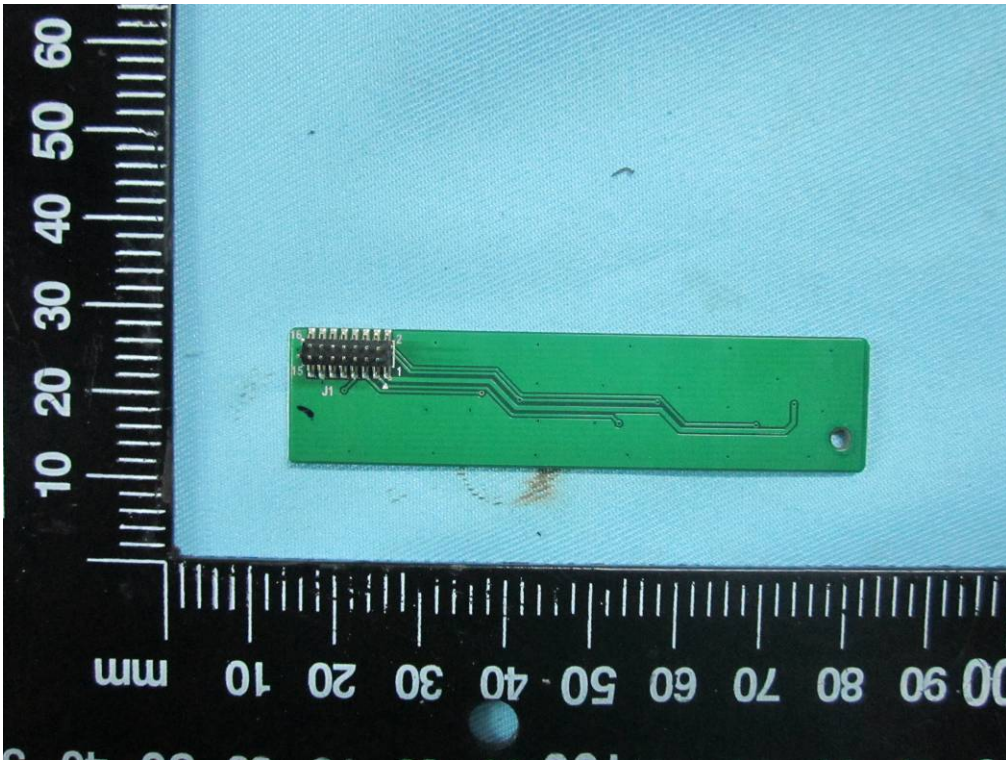




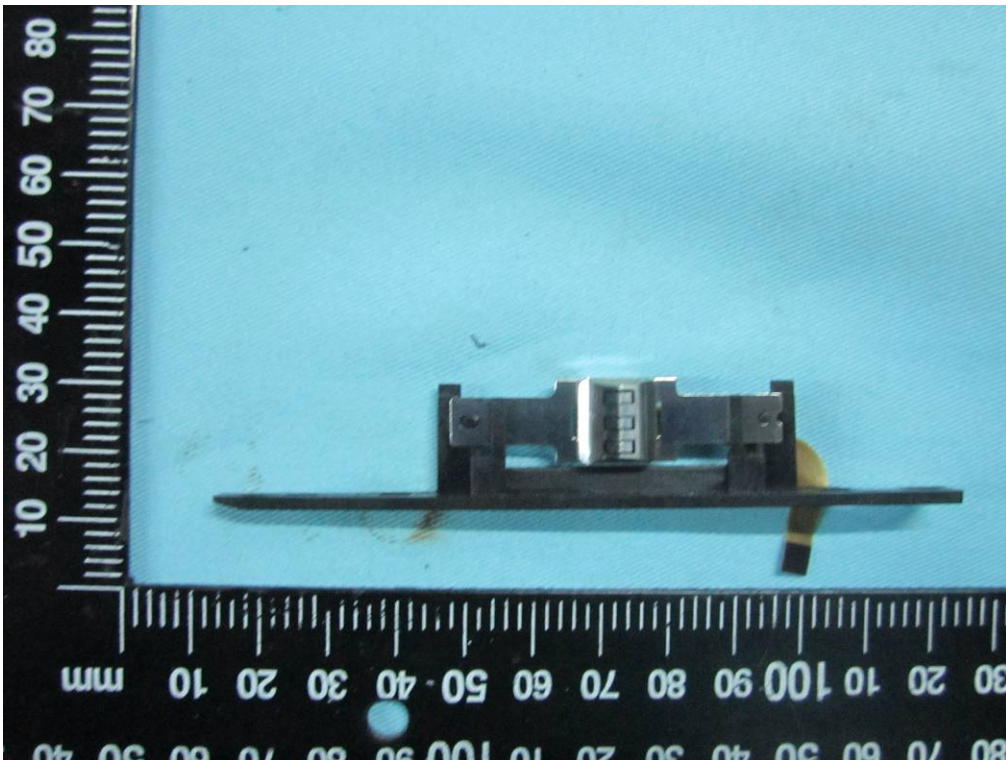
Keyboard 1 - Rear View



Keyboard 2 - Front View

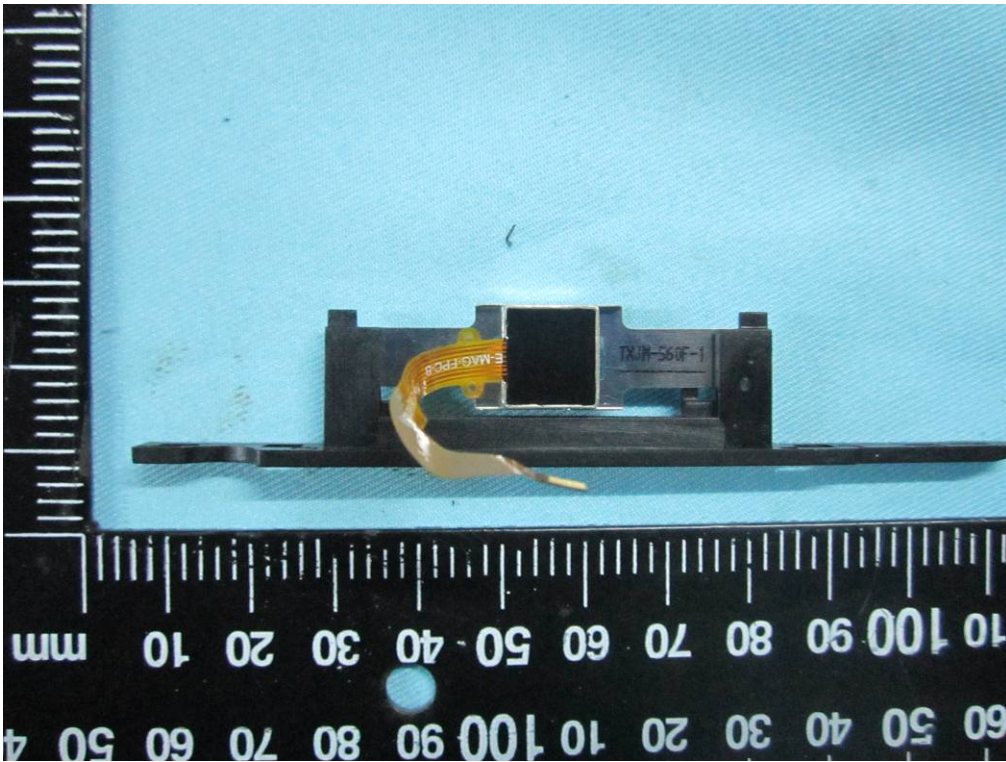


Keyboard 2 - Rear View

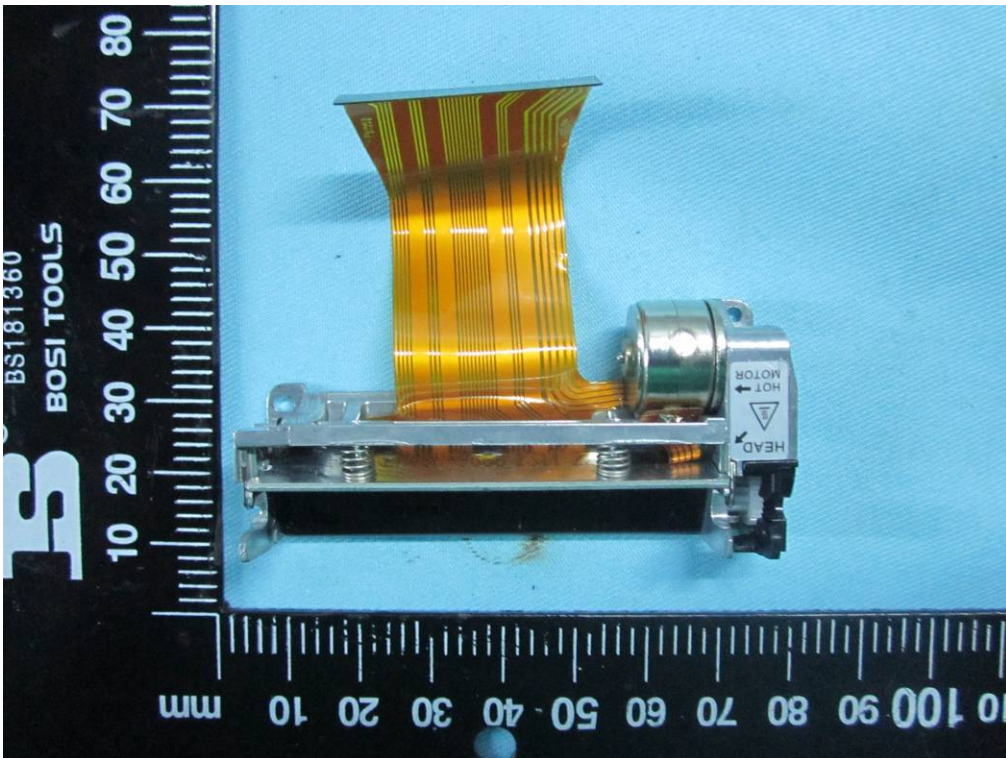


Magnetic Sensor - Front View

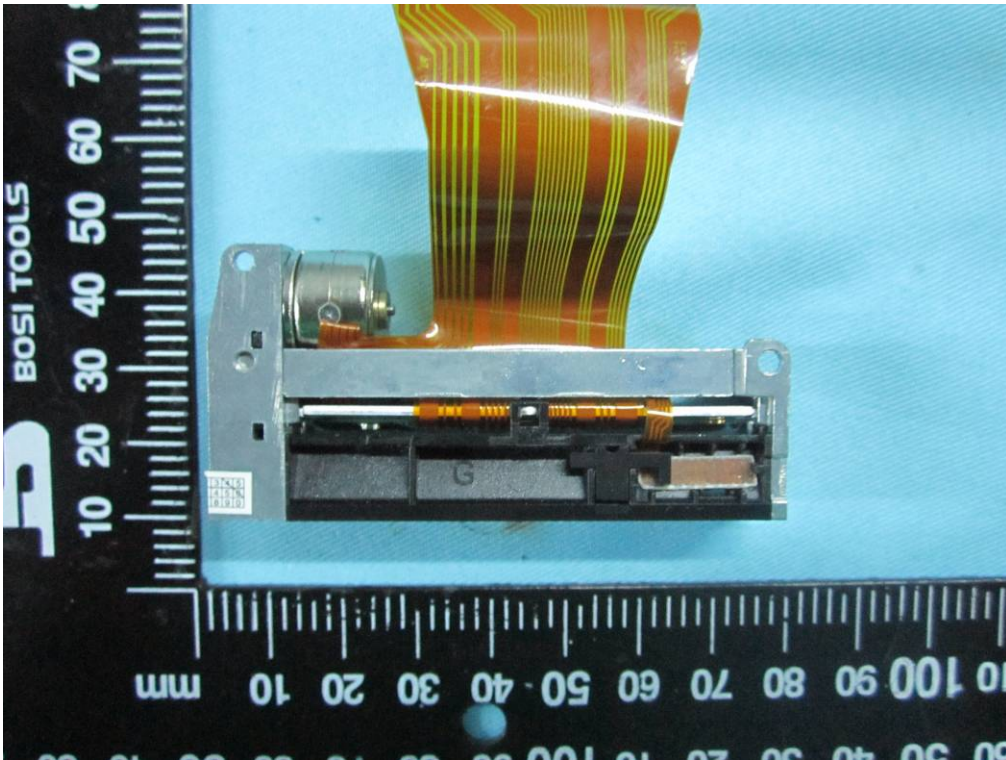




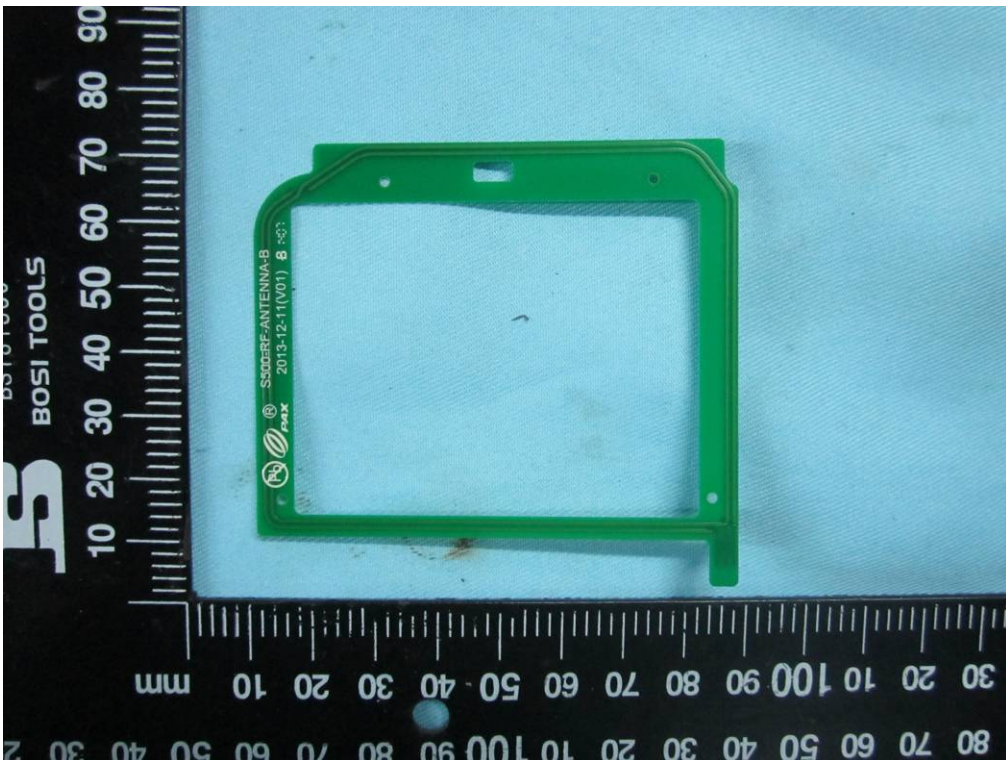
Magnetic Sensor - Rear View



Motor - Front View



Motor – Rear View



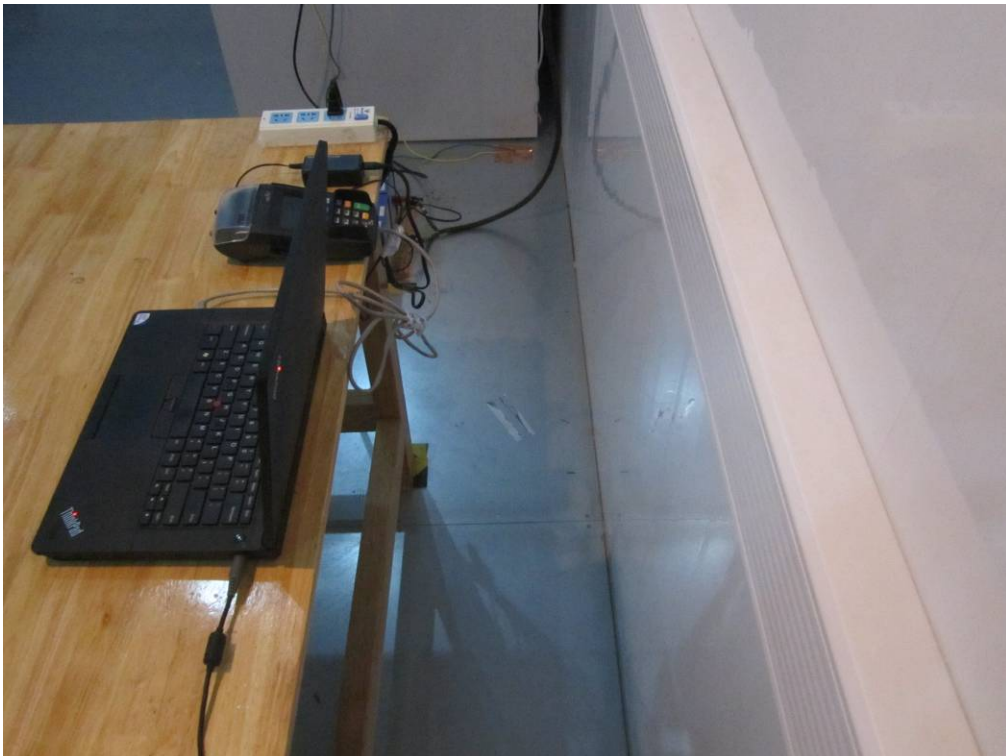
13.56MHz Antenna – View



**Annex B.iii. Photograph 3: Test Setup Photo**



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View

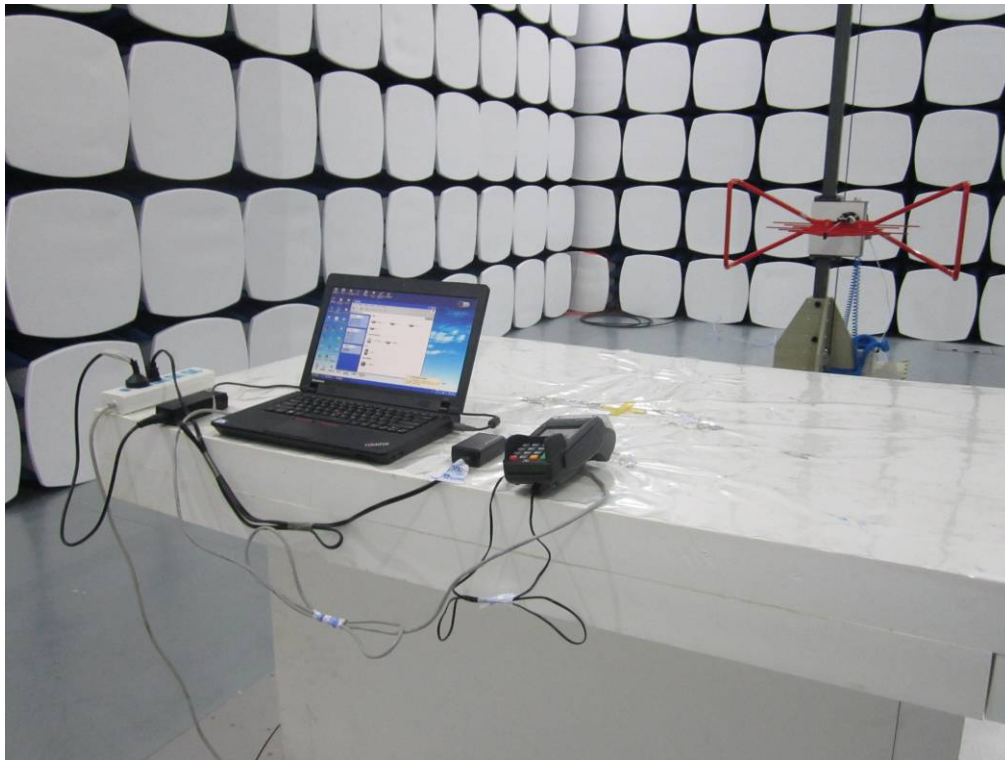


**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 32 of 38  
[www.siemic.com.cn](http://www.siemic.com.cn)



Radiated Spurious Emissions Test Setup Below 1GHz - Front View





**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 33 of 38  
www.siemic.com.cn

## **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.

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



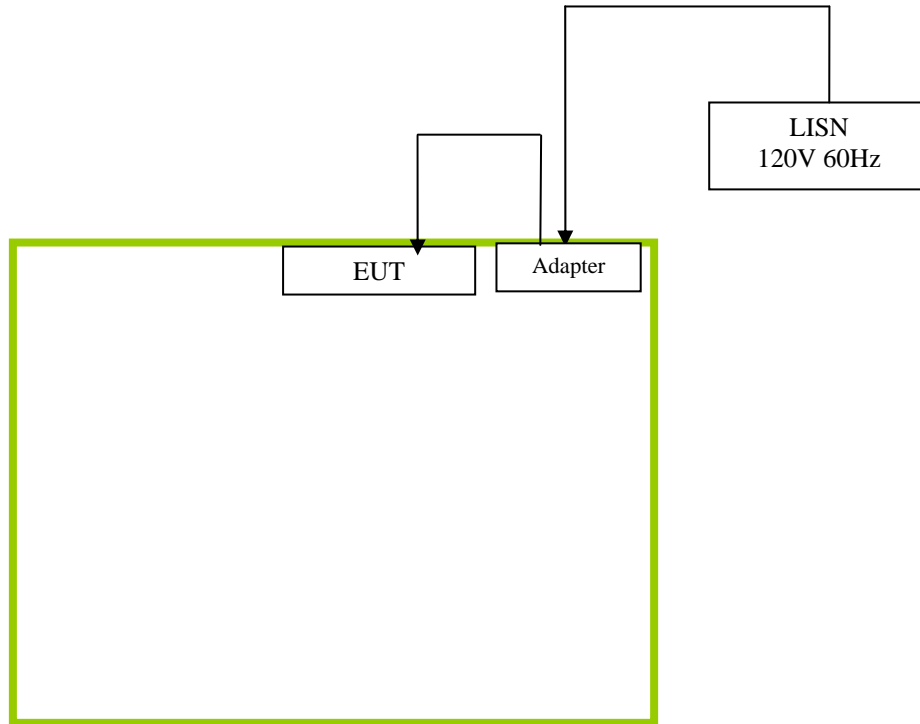
**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

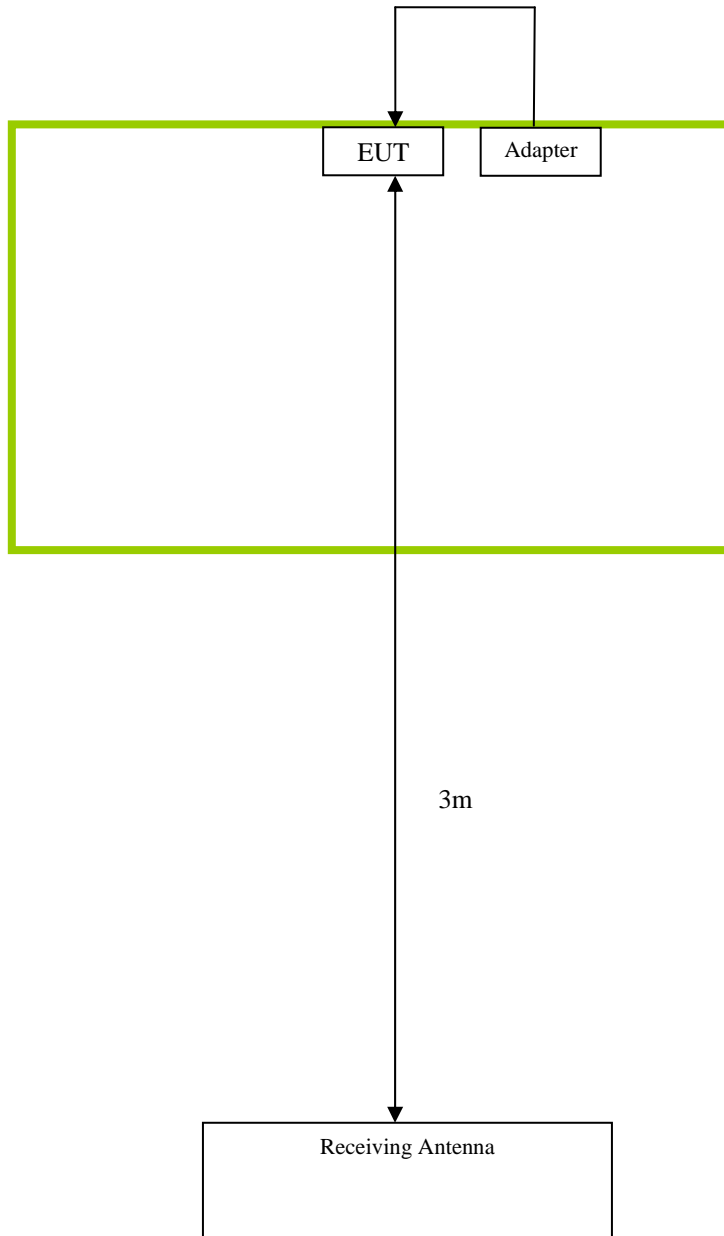
Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 34 of 38  
www.siemic.com.cn

## Block Configuration Diagram for Conducted Emissions Mode: Charging & Downloading





## Block Configuration Diagram for Radiated Emissions Mode: Charging & Downloading





**Annex C.ii. EUT OPERATING CONDITIONS**

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

<b>Test</b>	<b>Description Of Operation</b>
<b>Emissions</b>	Charging & Downloading



**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 37 of 38  
[www.siemic.com.cn](http://www.siemic.com.cn)

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

**Please see attachment**



**SIEMIC, INC.**

Accessing global markets

Title: EMC Test Report for EFT-POS Terminal  
Main Model: S500  
Serial Model: N/A  
To: FCC Part 15 Subpart B Class B: 2013 , ANSI C63.4:2009

Report No.: 14070371-FCC-E1  
Issue Date: August 06, 2014  
Page: 38 of 38  
[www.siemic.com.cn](http://www.siemic.com.cn)

## **Annex E. DECLARATION OF SIMILARITY**

**N/A**