

SPECTRA Technologies Holdings Co. Ltd

Wireless POS Terminal

Model: T800

February 27, 2013




Report No.: 12070018-FCC-R2

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
Chris Bi 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; 2012, ANSI C63.4: 2009

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Country/Region	Accreditation Body	Scope
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Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
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Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive



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Title: RF Test Report for Wireless POS Terminal
Model: T800
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1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the SPECTRA Technologies Holdings Co. Ltd, Wireless POS Terminal, and model: T800 against the current Stipulated Standards. The Wireless POS Terminal has demonstrated compliance with the FCC Part 15.225: 2012, ANSI C63.4: 2009.

EUT Information

EUT : **Wireless POS Terminal**

Description

Model No : **T800**

Serial No : **N/A**

Antenna Gain : **GPRS850: 1.2 dBi**
GPRS1900: 2.5 dBi

Adapter

Model: ADP046-094B
Input: AC 100V-240V, 1.0A 50/60 Hz

Rated : **Output: DC 9V 4A**

Battery:

Model: T800
Voltage: 7.4V 1750mAh

Classification

Per Stipulated Test Standard : **Class A Emission Product**

2 TECHNICAL DETAILS

Purpose	Compliance testing of Wireless POS Terminal with stipulated standard
Applicant / Client	SPECTRA Technologies Holdings Co. Ltd Unit 1301-09, 19-20, Tower II, Grand Century Place, 193 Prince Edward Road West, Kowloon, Hong Kong
Manufacturer	SPECTRA Technologies Holdings Co. Ltd Unit 1301-09, 19-20, Tower II, Grand Century Place, 193 Prince Edward Road West, Kowloon, Hong Kong
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: info@siemic.com
Test report reference number	12070018-FCC-R2
Date EUT received	20 November, 2012
Standard applied	FCC Part 15.225: 2012, ANSI C63.4: 2009
Dates of test (from – to)	December 18, 2012 to February 26, 2013
No of Units :	#1
Equipment Category :	DXX
Trade Name :	SPECTRA
Model :	T800
RF Operating Frequency (ies) :	GPRS850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz GPRS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz 13.56MHz
Number of Channels :	299CH (GPRS1900) 124CH (GPRS850) 1CH (ASK)
Modulation :	GPRS: GMSK ASK
GPRS Multi-slot class	8/10
Port/Connectors	Power Port, Slave Port, Host Port.
FCC ID :	VWZT800W



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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:

Class A Emission Product
Test Results Summary

Test Standard	Description	Pass/Fail
FCC Part 15.225:2012		
15.203	Antenna Requirement	Pass
15.207(a)	Conducted Emissions Voltage	Pass
15.225(a)	Fundamental Field Strength	Pass
15.225(b)	Fundamental Field Strength	Pass
15.225(c)	Fundamental Field Strength	Pass
15.225(d),15.209	Radiated Emissions	Pass
15.225(e)	Frequency Stability	Pass
15.215(c)	Occupied Bandwidth	Pass
ANSI C63.4: 2009		
PS: All measurement uncertainties are not taken into consideration for all presented test result.		

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 Antenna Requirement

Requirement(s): 47 CFR §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.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device.

5.2 Conducted Emissions Voltage

Requirement:

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

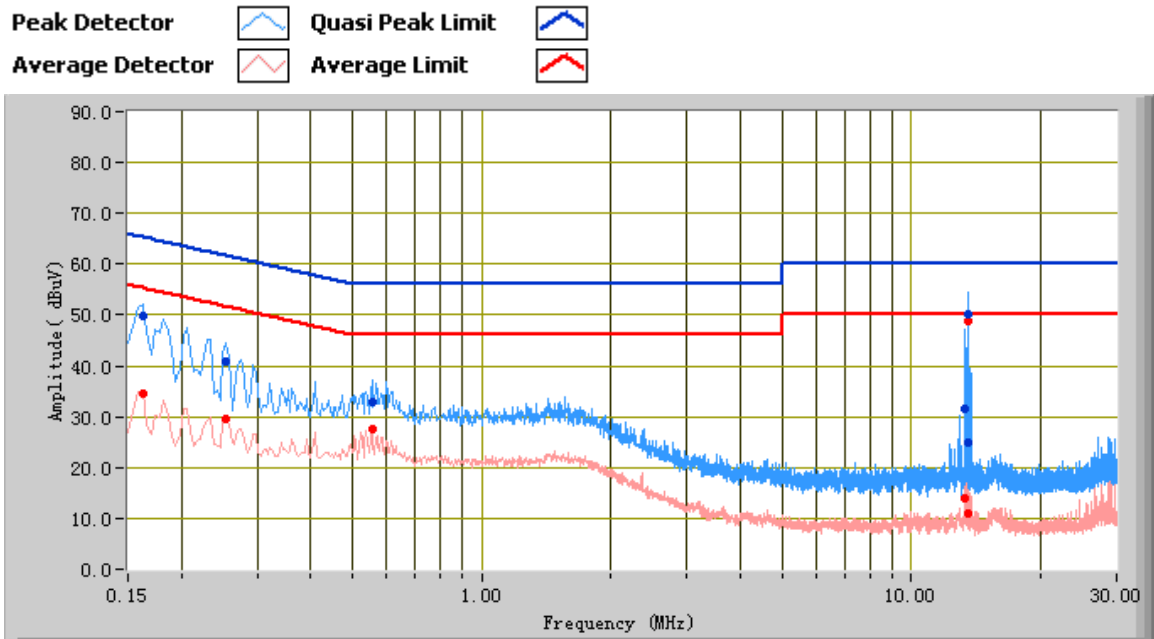
*Decreases with the logarithm of the frequency.

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	15°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date : December 18, 2012
Tested By : Chris Bi

Test Mode:	Transmitting
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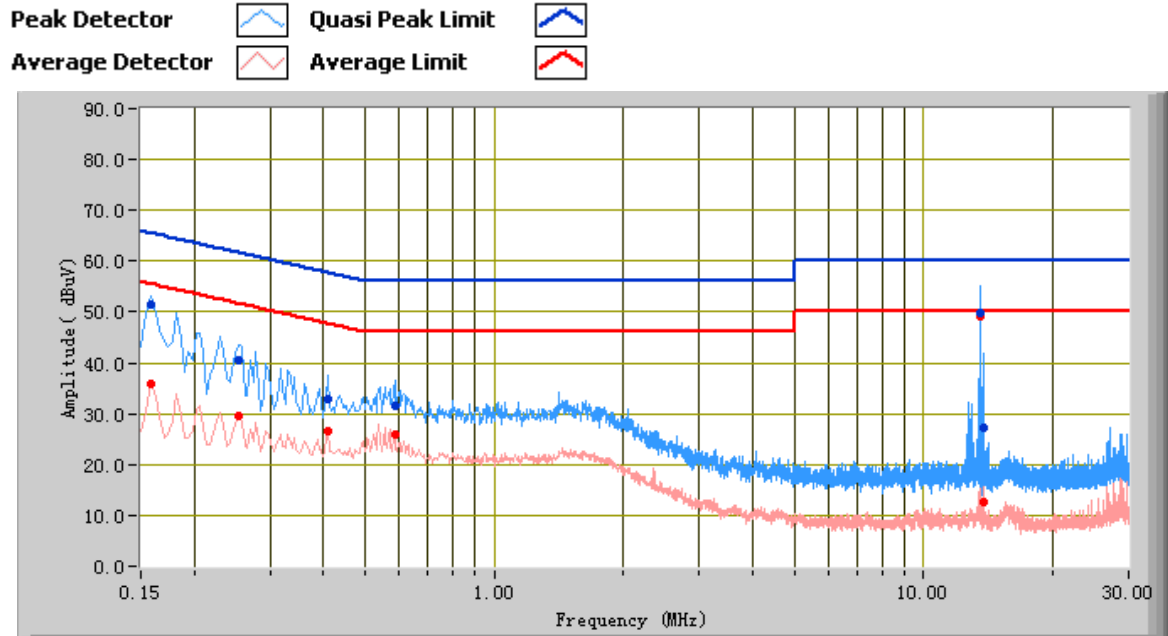
Test Data

Phase Line Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
13.56	49.61	60.00	-10.39	48.45	50.00	-1.55	11.32
13.35	31.69	60.00	-28.31	13.98	50.00	-36.02	11.31
0.16	49.94	65.36	-15.43	34.43	55.36	-20.93	12.05
0.25	40.72	61.62	-20.90	29.44	51.62	-22.19	11.45
0.55	32.87	56.00	-23.13	27.63	46.00	-18.37	11.04
13.49	24.78	60.00	-35.22	11.02	50.00	-38.98	11.32

Antenna port connected to artificial terminal.

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



Test Data

Phase Neutral Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
13.56	58.63	60.00	-11.37	48.86	50.00	-1.14	11.33
0.16	51.64	65.57	-13.93	35.73	55.57	-19.83	12.10
0.25	40.67	61.62	-20.96	29.42	51.62	-22.21	11.45
13.77	27.24	60.00	-32.76	12.71	50.00	-37.29	11.34
0.59	31.56	56.00	-24.44	25.85	46.00	-20.15	11.00
0.41	33.02	57.65	-24.63	26.50	47.65	-21.15	11.20

Antenna port connected to artificial terminal.

5.3 Fundamental Field Strength Test Result

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, is +/-6dB.
4. Environmental Conditions

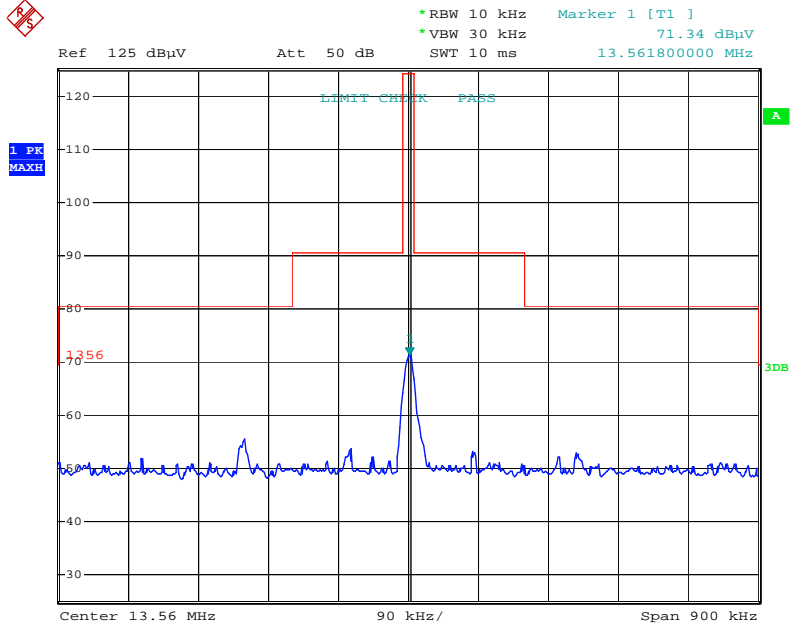
Temperature	15°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date : December 19, 2012
Tested By : Chris Bi

Test Requirement:

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

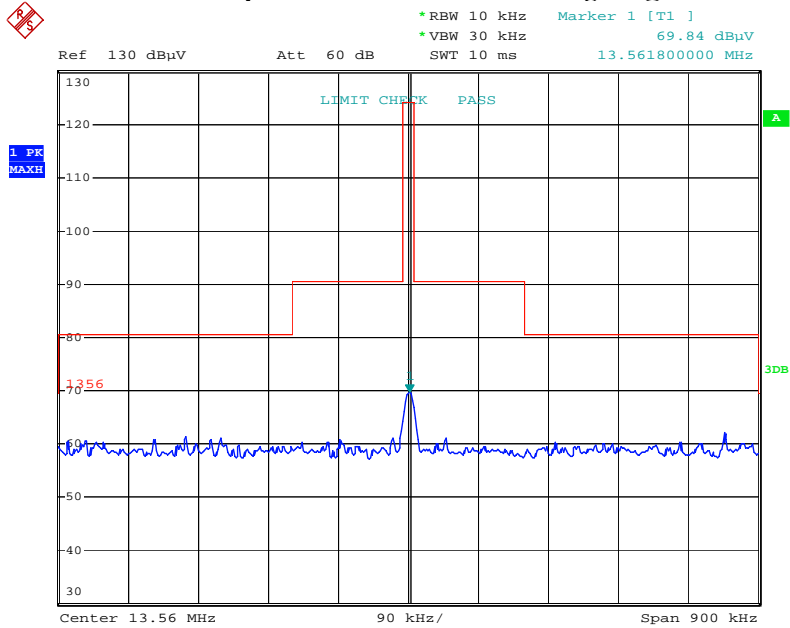
15.225(a), 15.225(b) and 15.225(c) Test Result:

Loop Antenna Positioned at 0 degree @3m



Date: 19.DEC.2012 09:55:40

Loop Antenna Positioned at 90 degree @3m



Date: 19.DEC.2012 09:49:41

5.4 Radiated Emissions

Requirement(s): 47 CFR §15.209; 47 CFR§15.225(d)

Procedures: For >30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 3 meter away from the measuring antenna. The Log periodic antenna was positioned 1 meter above the ground from the centre of the antenna. The measuring bandwidth was set to 120kHz. (Note: During testing the receive antenna was raise from 1-4meters to maximize the emission from the EUT.)

The limit is converted from microvolt/meter to decibel microvolt/meter.

Sample Calculation: Corrected Amplitude=Raw Amplitude(dBuV/m)+ACF(dB)+Cable Loss(dB)-Distance Correction Factor

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, is +/-6dB.
4. Environmental Conditions

Temperature	15°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date : February 26, 2013
Tested By : Chris Bi

The result: Pass

Transmit mode:

1MHz to 30MHz Test result

Loop Antenna at 0 degree:
@ 3M

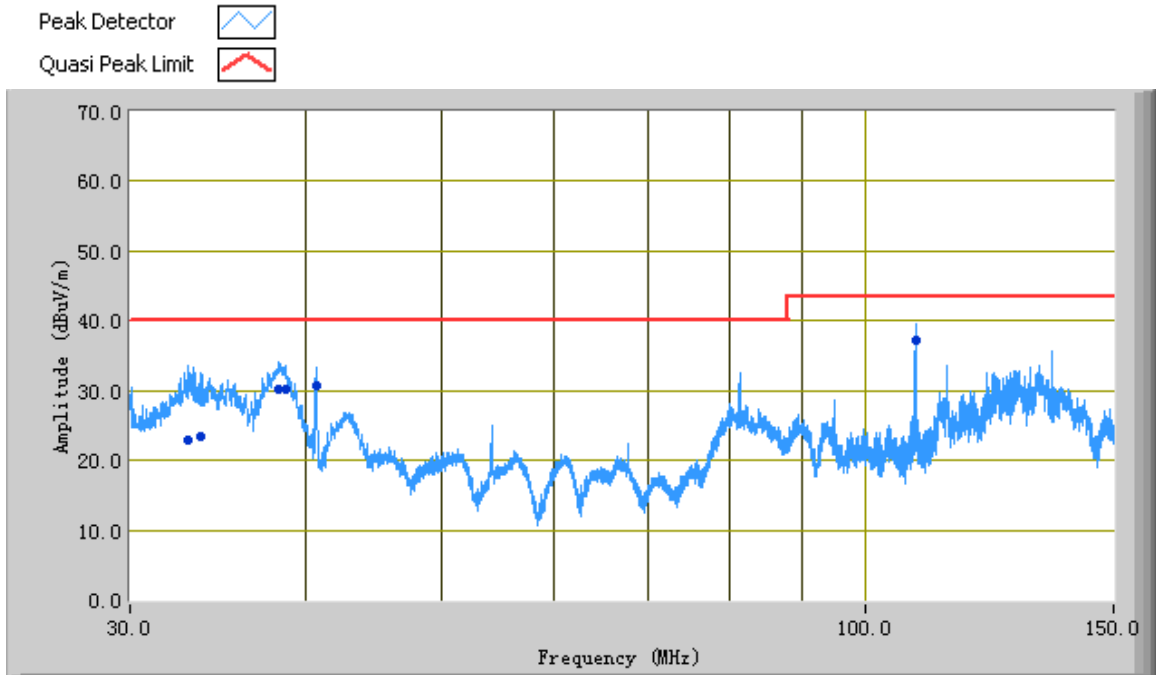
Frequency	Peak (Corrected)	Factor	Height	Azimuth	Limits @ 3m	Margin
(MHz)	(dB μ V/m)	(dB)	(cm)	(deg)	(dB μ V/m)	(dB)
19.78MHz	60.22	20.1	120	153	69.54	-9.32
16.98 MHz	60.38	18.3	130	96	69.54	-9.16
4.86 MHz	59.66	34.2	110	102	69.54	-9.88

Loop Antenna at 90 degree:
@ 3M

Frequency	Peak (Corrected)	Factor	Height	Azimuth	Limits @ 3m	Margin
(MHz)	(dB μ V/m)	(dB)	(cm)	(deg)	(dB μ V/m)	(dB)
5.15 MHz	56.89	32.9	150	105	69.54	-12.65
19.78 MHz	58.47	20.1	134	52	69.54	-11.07
17.25 MHz	59.66	18.5	120	100	69.54	-9.88

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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Test Data

Vertical & Horizontal Polarity Plot at 3m

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
108.50	37.25	290.00	V	109.00	-31.93	43.50	-6.25
38.31	30.21	357.00	H	108.00	-26.54	40.00	-9.79
32.99	22.85	234.00	V	197.00	-22.30	40.00	-17.15
38.64	30.19	314.00	V	107.00	-26.82	40.00	-9.81
40.68	30.65	165.00	V	119.00	-28.39	40.00	-9.35
33.74	23.32	200.00	V	140.00	-22.88	40.00	-16.68

Note: Testing measured to beyond the tenth harmonic of the highest fundamental frequency and comply with FCC rule.

5.5 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 | 15°C |
| | | Relative Humidity | 50% |
| | | Atmospheric Pressure | 1019mbar |
| 2. | Test date : December 19, 2012 | | |
| | Tested By : Chris Bi | | |

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	13.5605	500	<0.01	Pass
40	13.5606	600	<0.01	Pass
30	13.5605	500	<0.01	Pass
20	Reference			
10	13.5605	500	<0.01	Pass
0	13.5607	700	<0.01	Pass
-10	13.5606	600	<0.01	Pass
-20	13.5606	600	<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	13.5604	400	<0.01	Pass
138	13.5605	500	<0.01	Pass

5.6 Occupied Bandwidth

Requirement(s): 47 CFR§2.1055

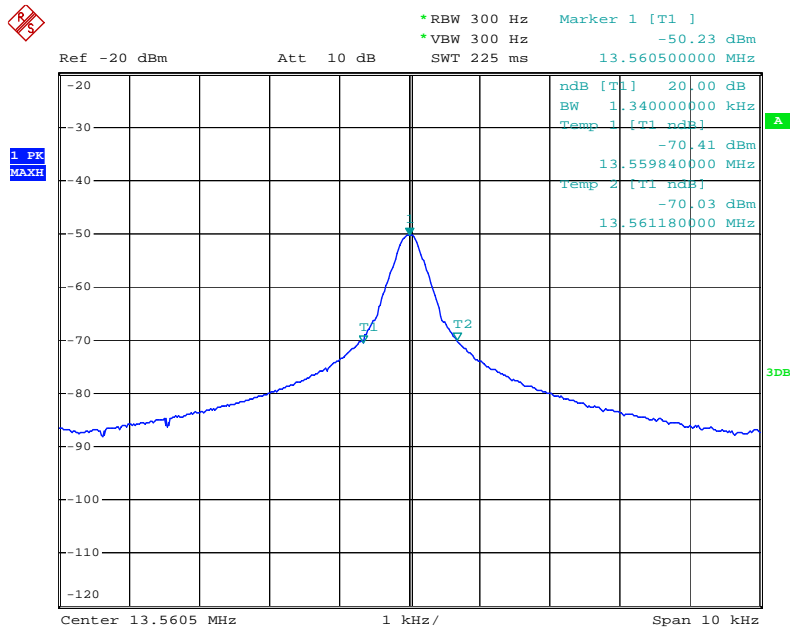
Procedures: Occupied Bandwidth was measured according to 47 CFR§2.1055. Measurement was taken with spectrum analyzer. The spectrum analyzer bandwidth and span was set to read in hertz.

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, is +/-6dB.
4. Environmental Conditions

Temperature	15°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date : 25 January, 2013
Tested By : Chris Bi

Test Result: Pass

Frequency (MHz)	20dB BW (kHz)	Frequency range (MHz) F Low	Frequency range (MHz) F High	Test Result
13.5601	0.78	13.559	13.568	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				
R&S EMI Test Receiver	ESPI3	101216	10/27/2012	10/26/2013
ROHDE&SCHWARZ V-LISN	ESH3-Z5	838979/005	10/27/2012	10/26/2013
Com-Power Transient Limiter	LIT-153	531021	11/03/2012	11/02/2013
SIEMIC Labview Conducted Emissions software	V1.0	N/A	N/A	N/A
Radiated Emissions				
R&S EMI Receiver	ESPI3	101216	10/27/2012	10/26/2013
Antenna (30MHz~6GHz)	JB6	A121411	12/28/2012	12/27/2013
Hp Agilent Pre-Amplifier	8447F	1937A01160	11/03/2012	11/02/2013
EMCO Passive Loop Antenna	6509	9909-1469	10/18/2012	10/17/2013
Pro.Temp.&Humi.Chamber	MHP-150-1C	MHA090510A	11/03/2012	11/02/2013
SIEMIC Labview Radiated Emissions software	V1.0	N/A	N/A	N/A

Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

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.

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).

Sample Calculation Example

At 20 MHz	limit = 250 μV = 47.96 dBμV
Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB	
Q-P reading obtained directly from EMI Receiver = 40.00 dBμV (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

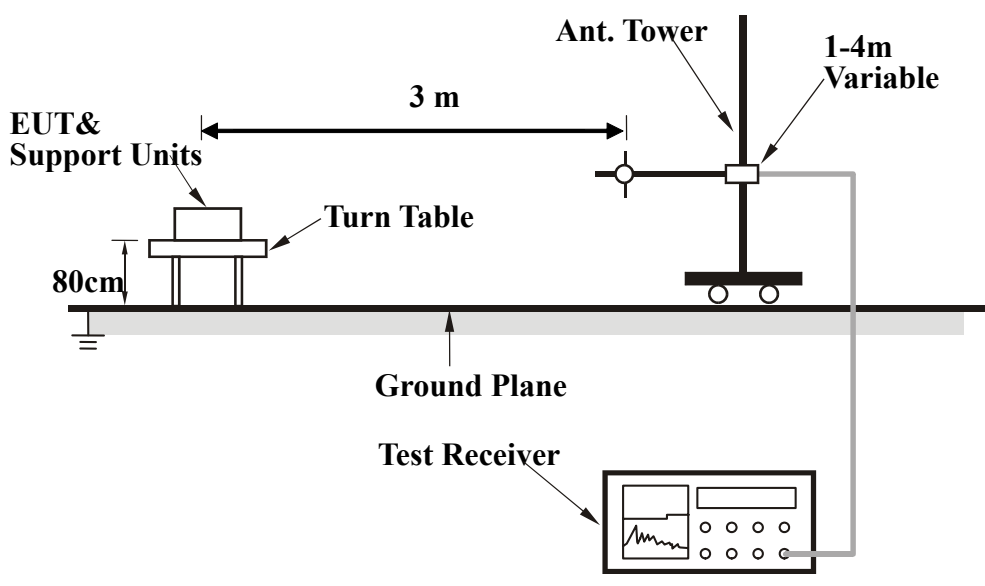
EUT Characterisation

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).

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 were 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

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 Label- Top View



EUT - Front View



EUT - Rear View



EUT - Top View



EUT - Bottom View



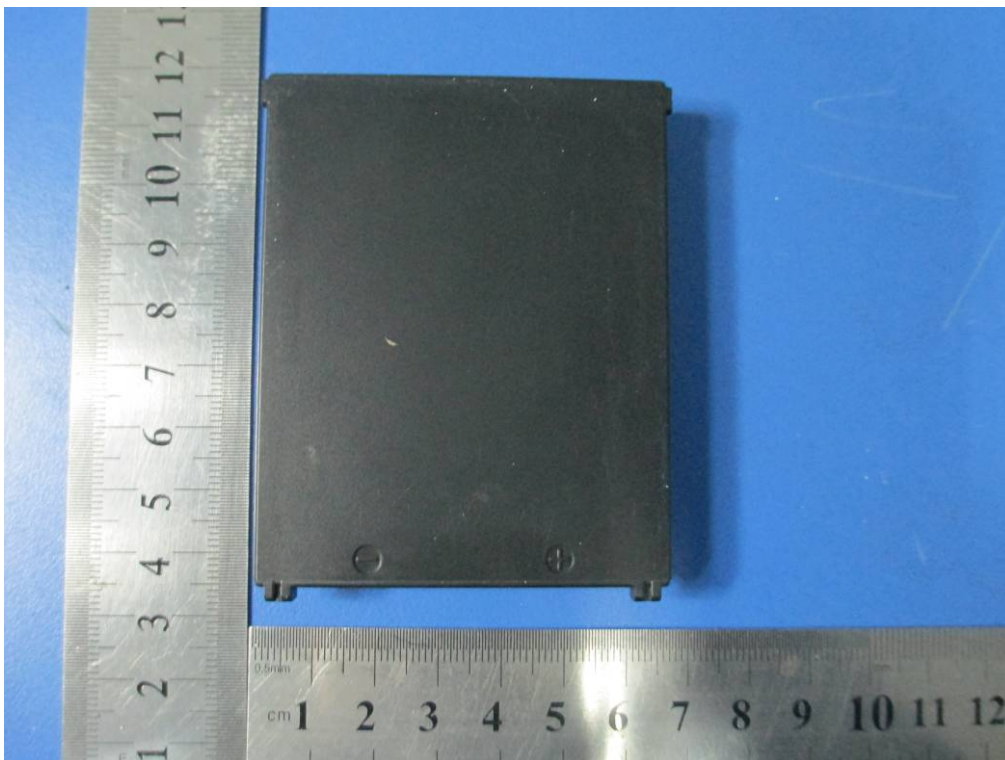
EUT - Left View



EUT - Right View



Battery Front View

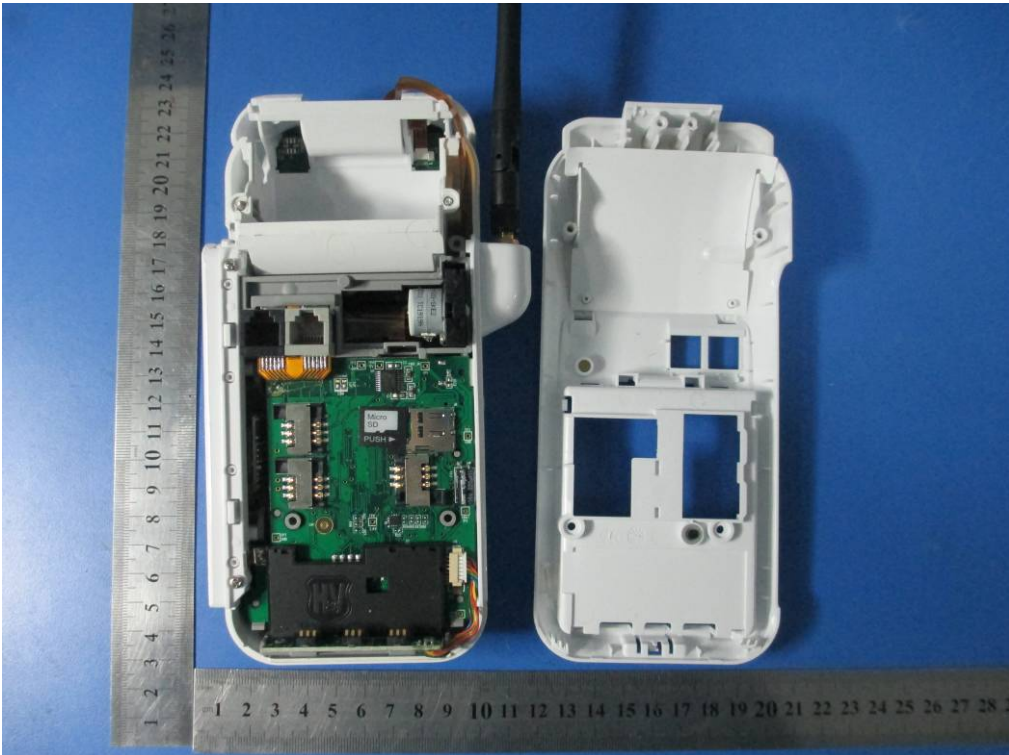


Battery Rear View

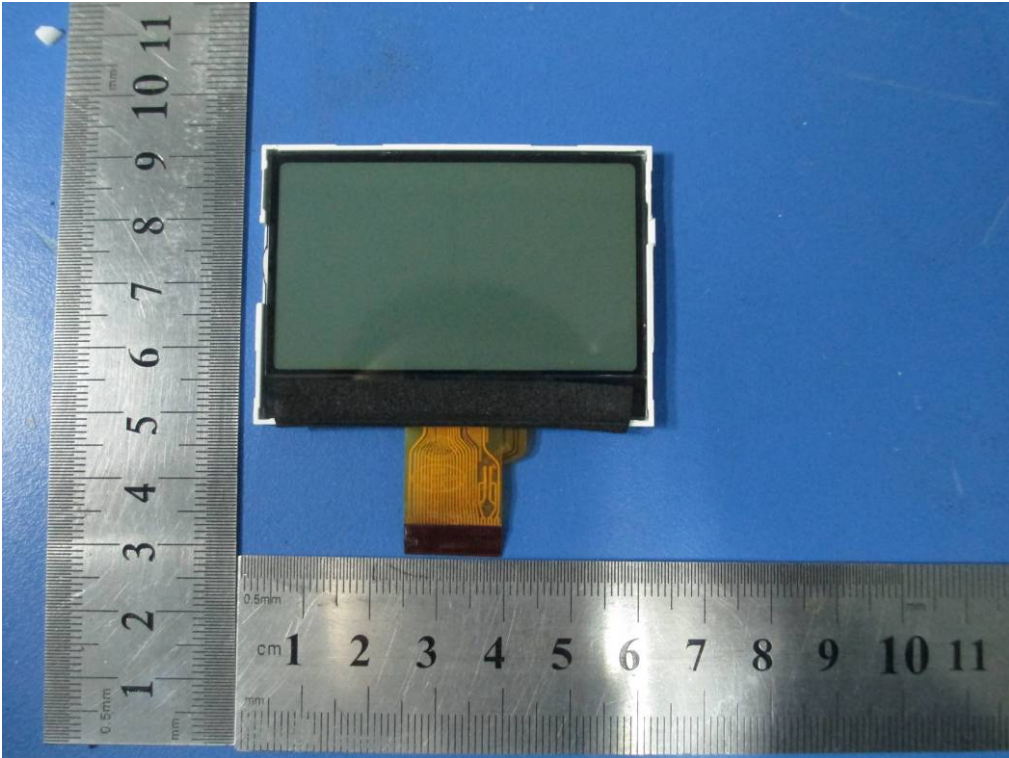
Annex B.ii. Photograph 2: EUT Internal Photo



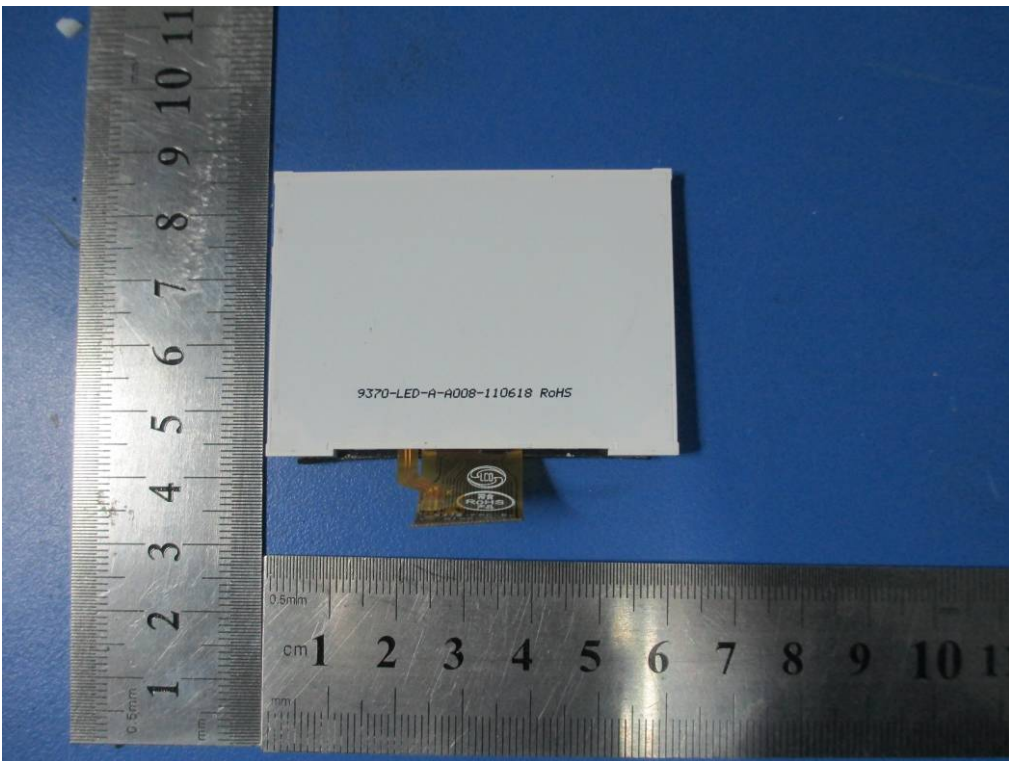
Cover Off - Rear View1



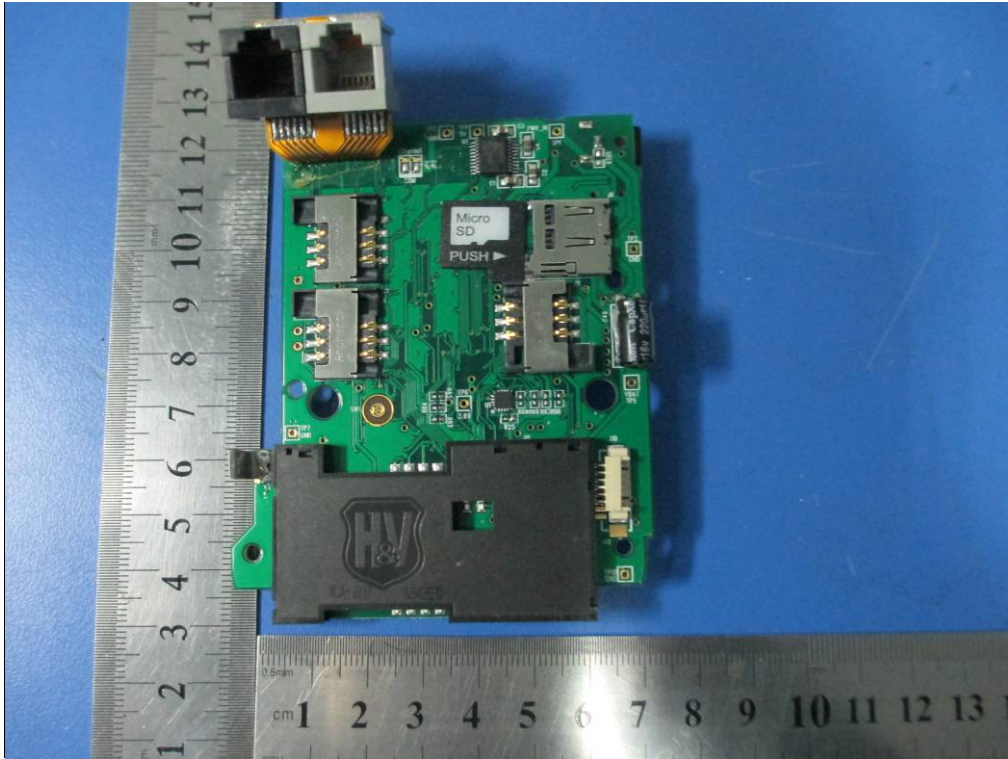
Cover Off - Rear View2



LCD - Top View



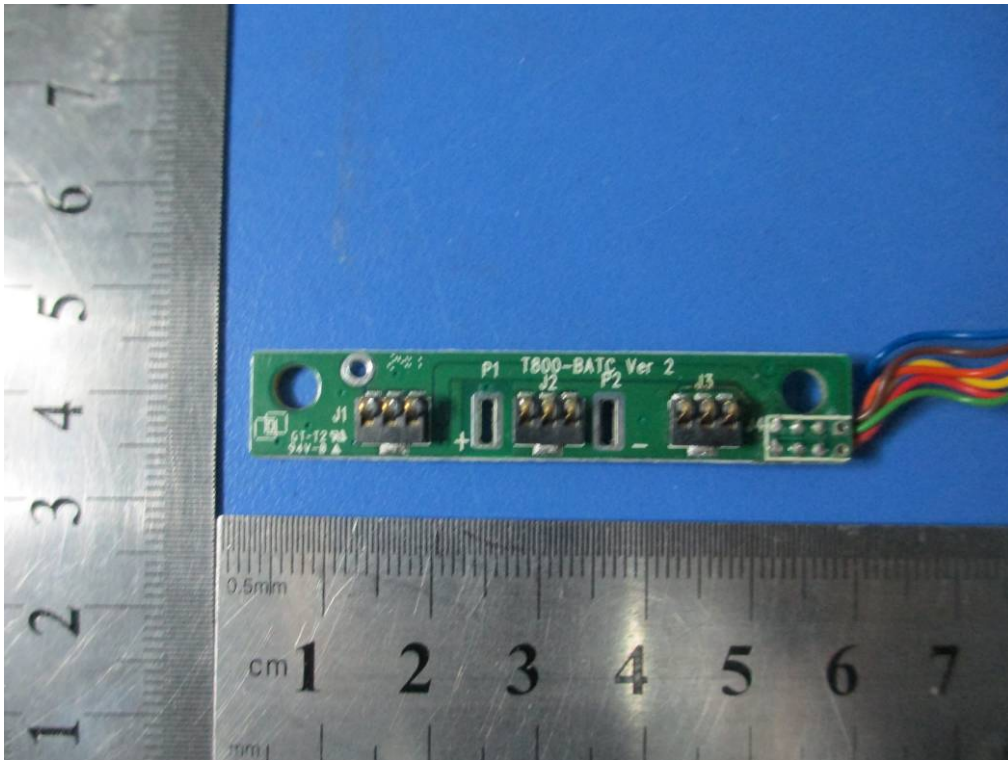
LCD - Bottom View



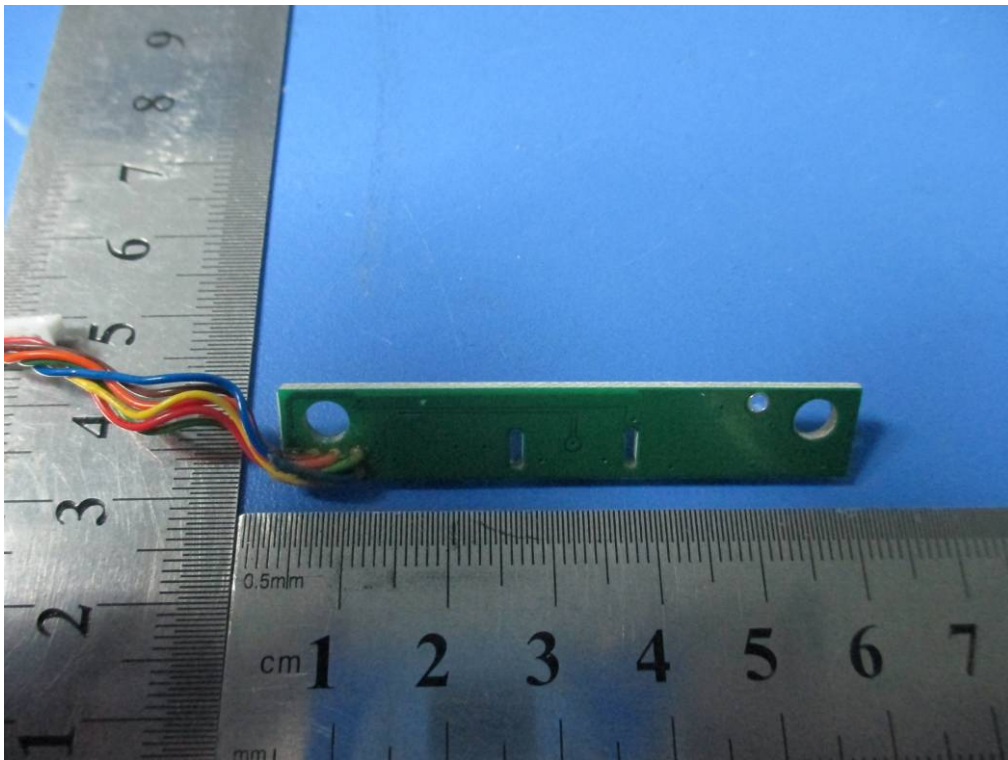
EUT PCB Board 1 - Top View



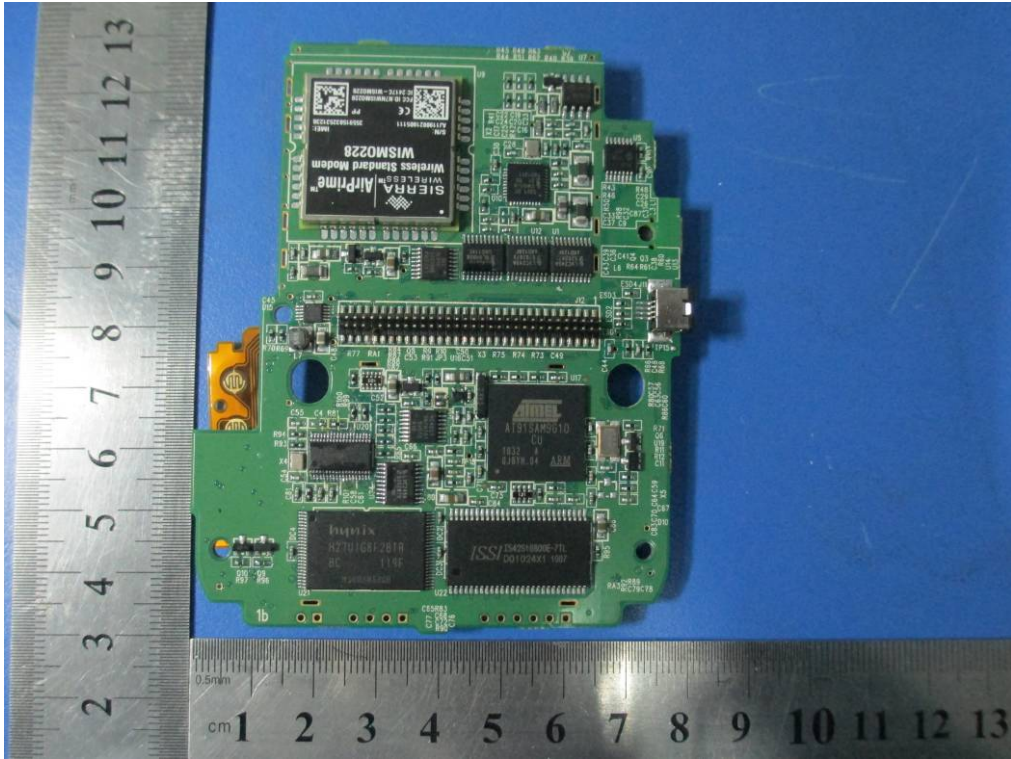
EUT PCB Board 1 - Bottom View



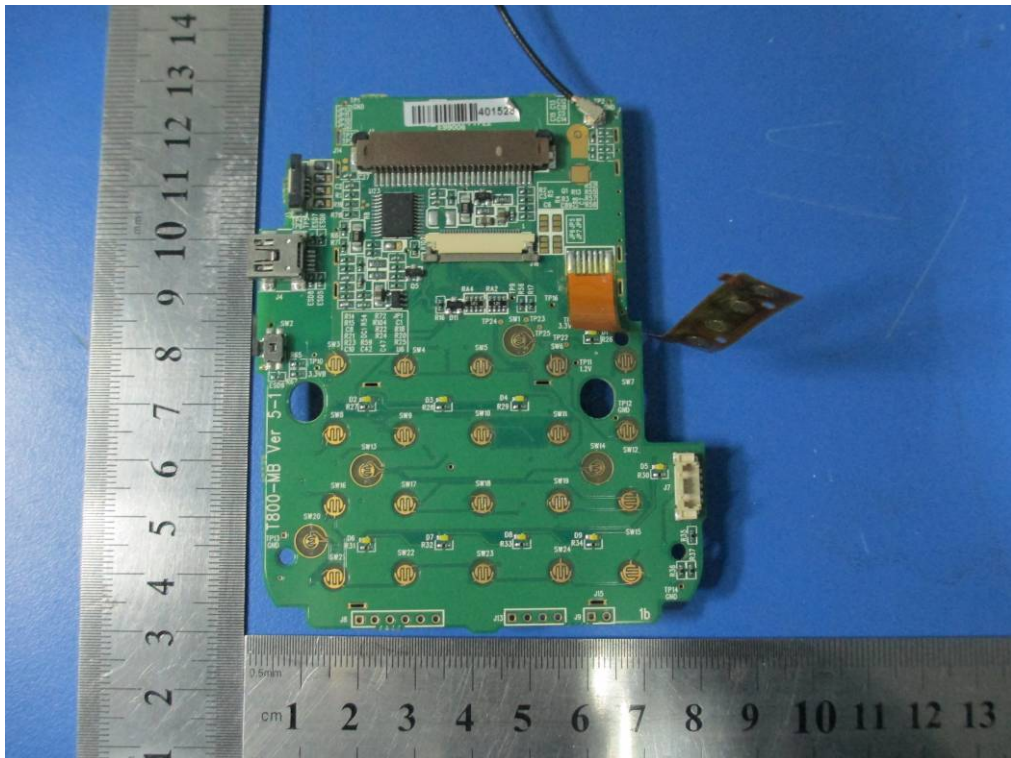
EUT PCB Board 2 - Top View



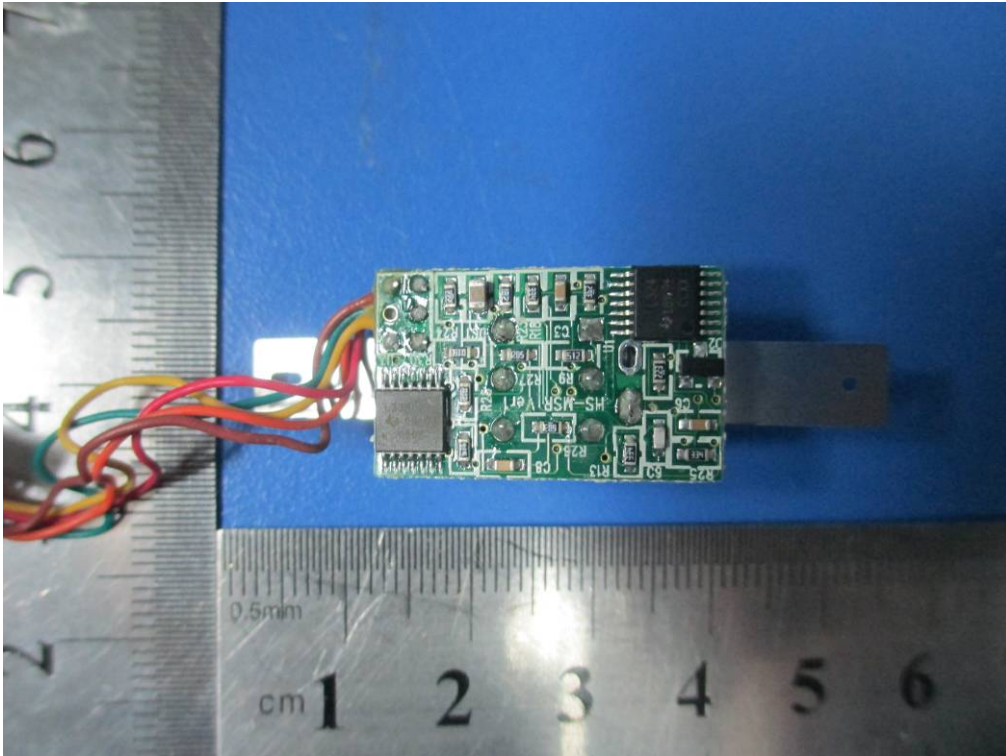
EUT PCB Board 2 - Bottom View



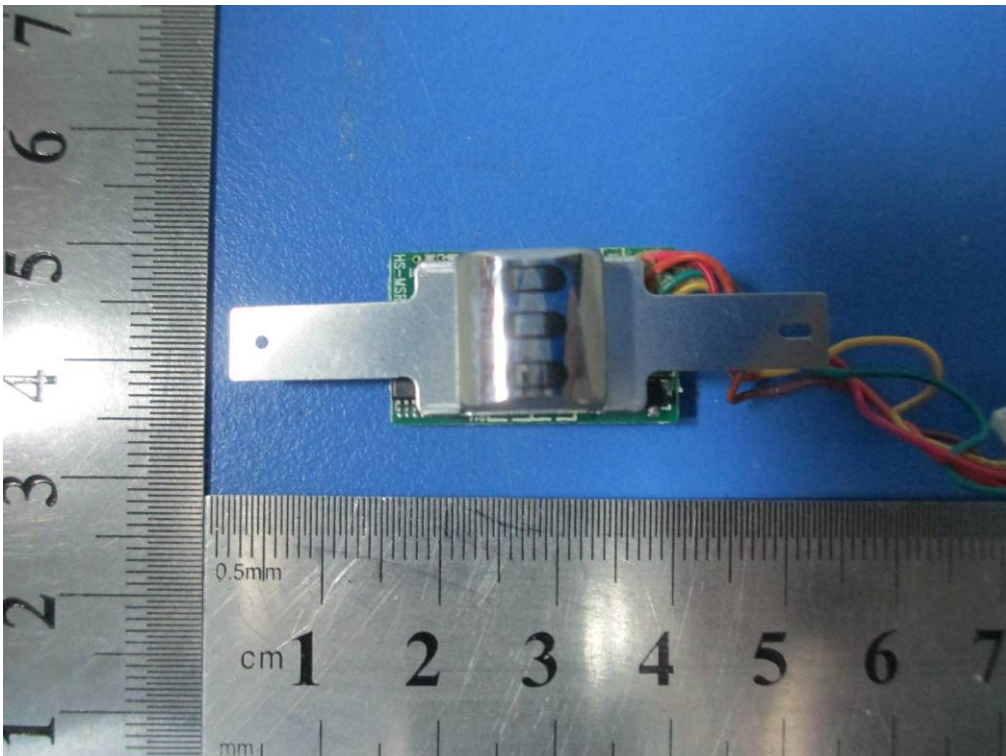
EUT PCB Board 3 - Top View



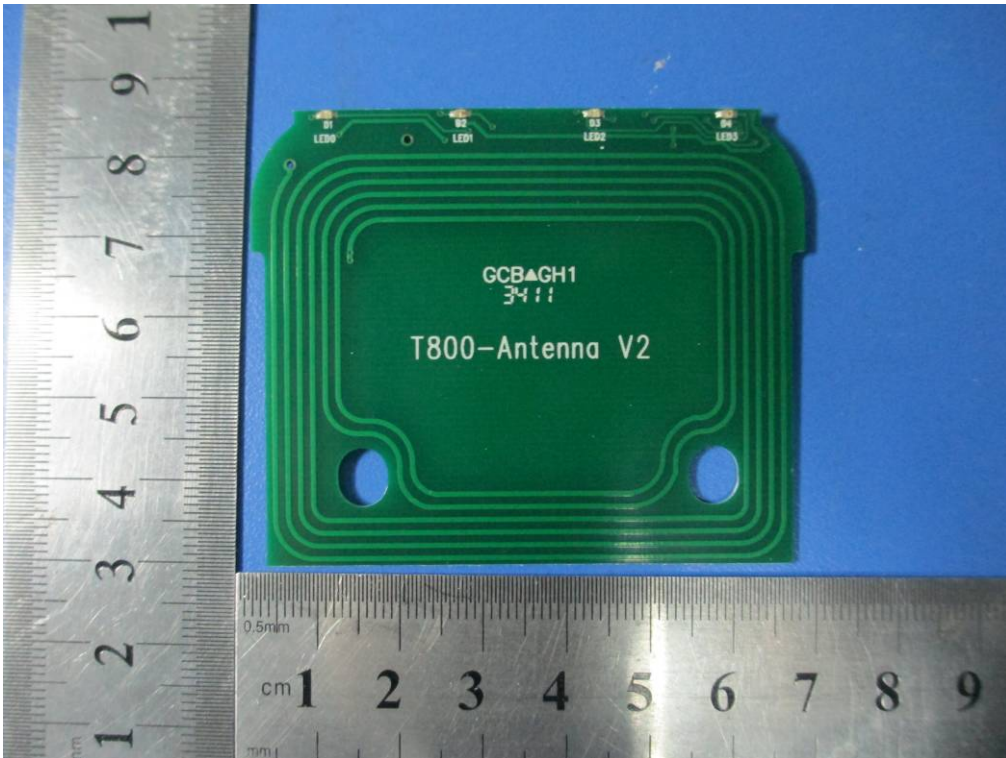
EUT PCB Board 3 - Bottom View



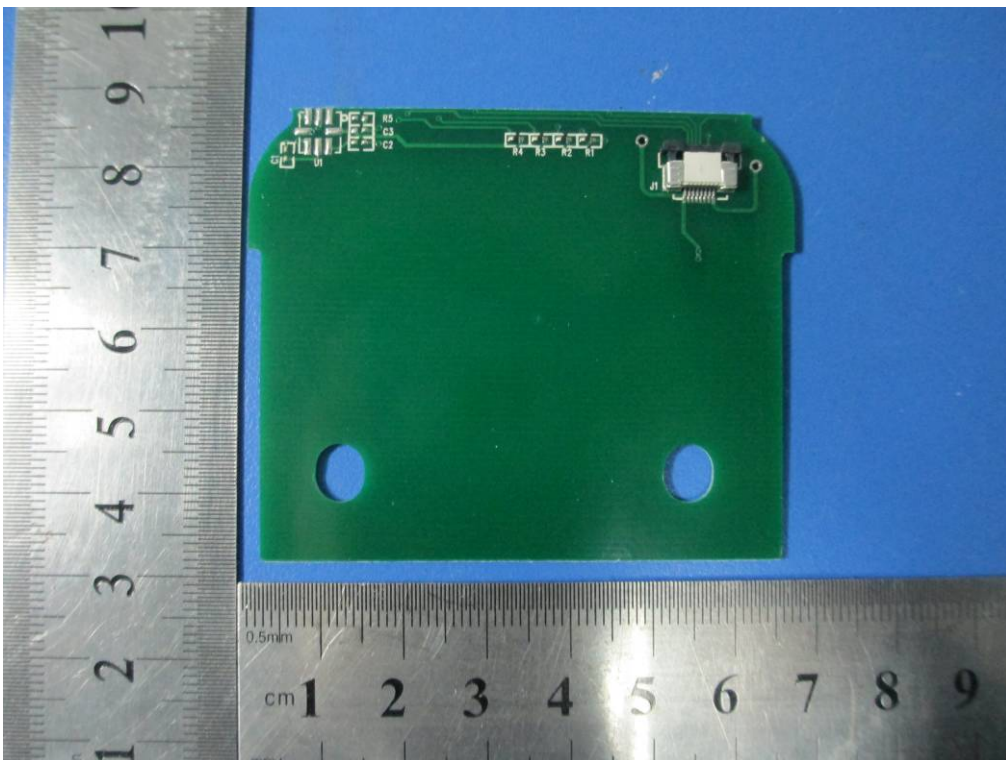
EUT PCB Board 4 - Top View



EUT PCB Board 4 - Bottom View



EUT PCB Antenna - Top View



EUT PCB Antenna - Bottom View

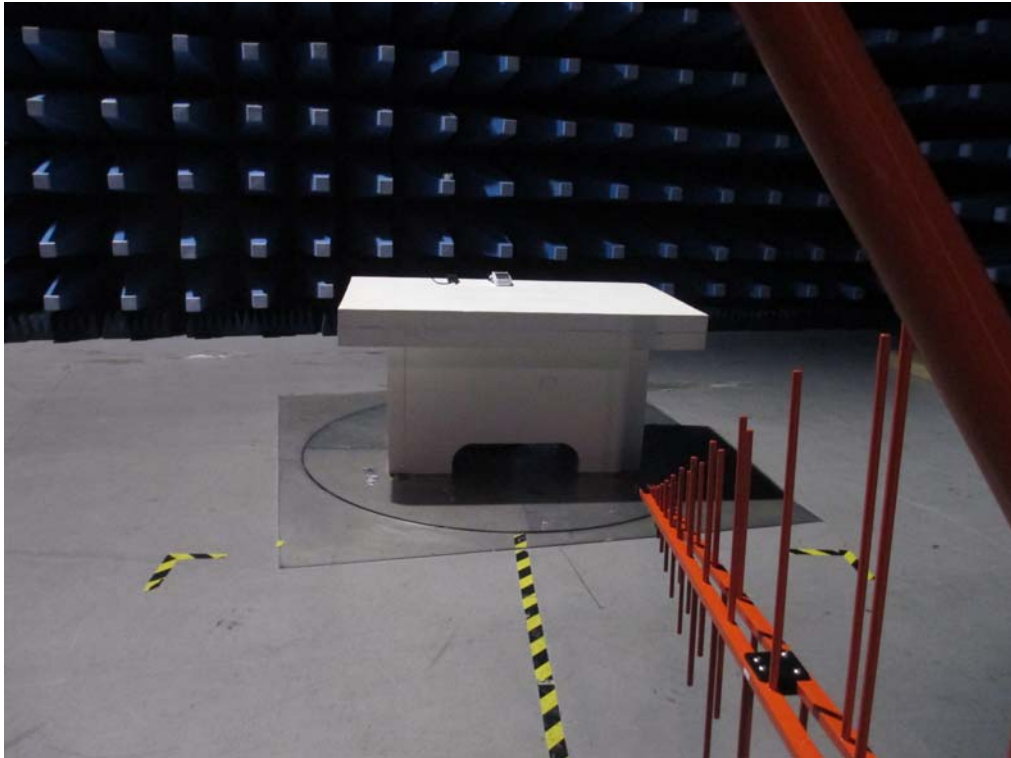
Annex B.iii. Photograph: Test Setup Photo



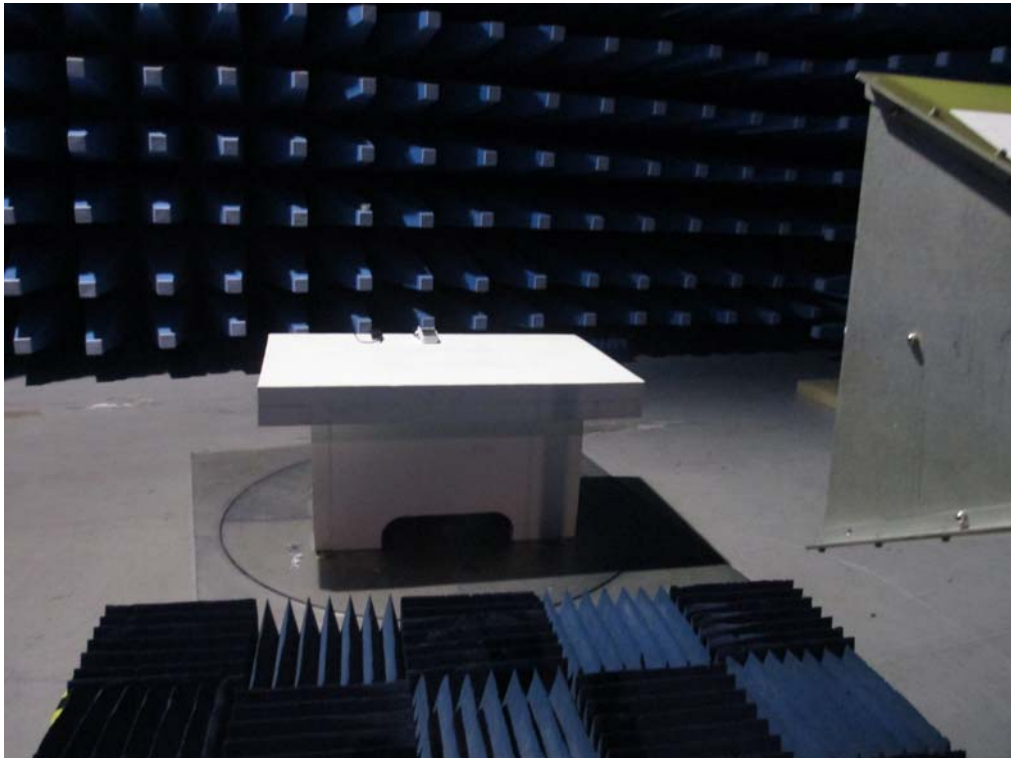
Conducted Emission Test Setup Front View



Conducted Emission Test Setup Side View



Front View of Radiated Emissions Test Setup below 1GHz



Front View of Radiated Emissions Test Setup above 1GHz

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

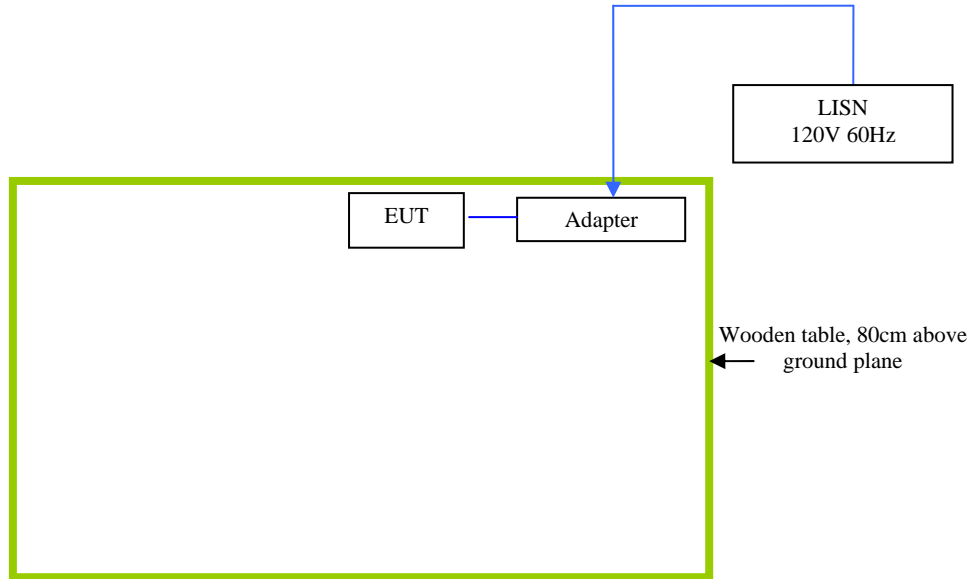
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

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

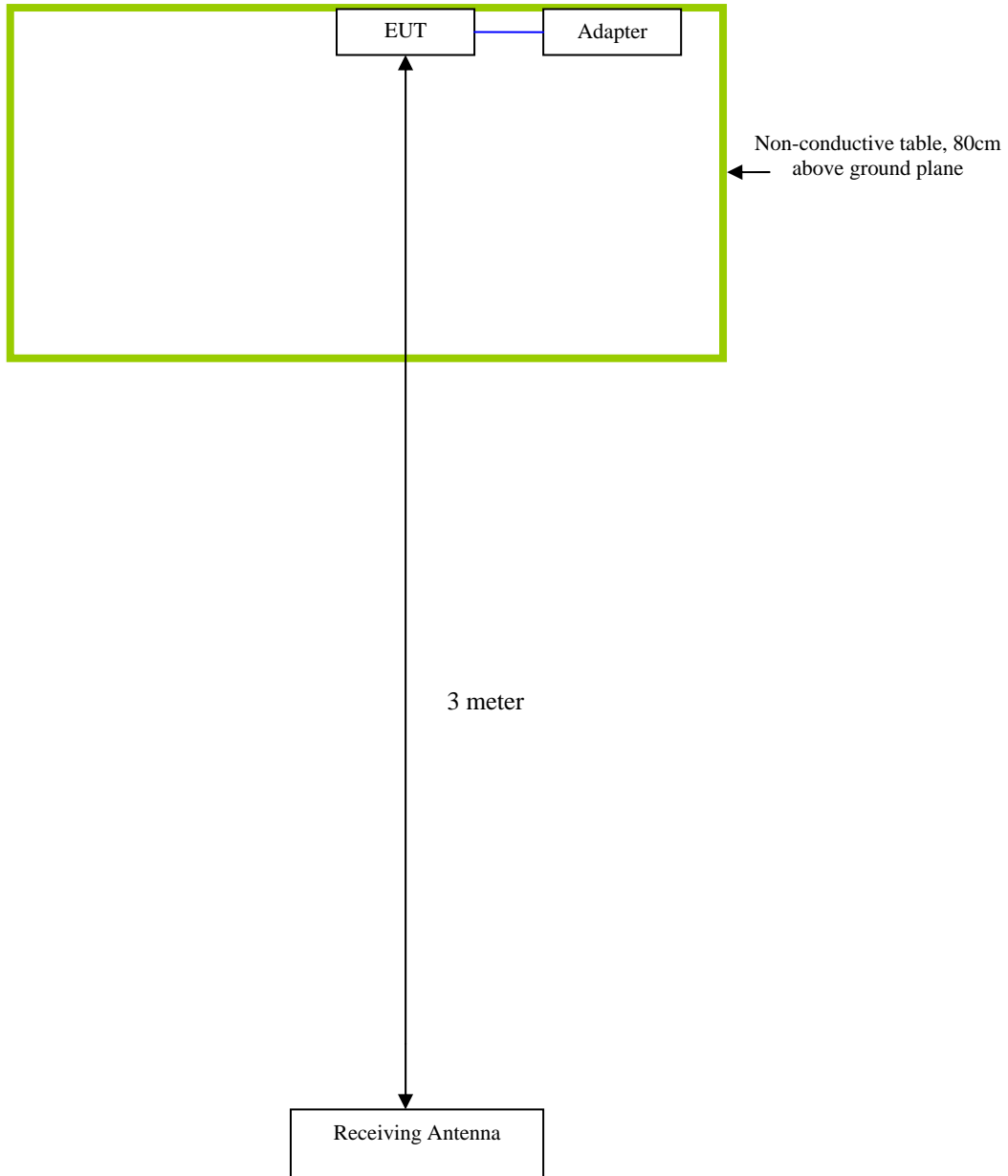
Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
N/A	N/A	N/A

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.



SIEMIC, INC.

Accessing global markets

Title: RF Test Report for Wireless POS Terminal
Model: T800
To: FCC Part 15.225: 2012, ANSI C63.4: 2009

Report No.: 12070018-FCC-R2
Issue Date: February 27, 2013
Page: 42 of 43
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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment



SIEMIC, Inc.

Accessing global markets

Title: RF Test Report for Wireless POS Terminal
Model: T800
To: FCC Part 15.225: 2012, ANSI C63.4: 2009

Report No.: 12070018-FCC-R2
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Annex E. DECLARATION OF SIMILARITY

N/A