

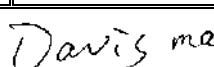
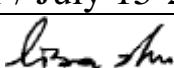
FCC PART 15.239
EMI MEASUREMENT AND TEST REPORT
For

CAMI (HK) COMPANY LIMITED

Room 903, 9/F, New Commerce Centre, 19 On Sum Street, Shatin, N.T. Hong Kong

FCC ID: ZR6-M2-20-3F

July 24, 2011

This Report Concerns: Original Report	Equipment Type: Car Mount for iPad - ENHANCED and DELUXE version
Test Engineer: Davis Ma	
Report No.: PTS11072447E	
Receive EUT Date/Test Date: July 15, 2011 / July 15-24, 2011	
Reviewed By: Lisa Zhu	
Prepared By:  PRECISE TESTING	<p>DongGuan Precise Testing Service Co.,Ltd. F616A Room, 6th Floor, Meixin Business Center, Dongcheng Middle Road, Dongguan, Guangdong, China TEL: +86-769-23368601 FAX: + 86-769-23368602</p>

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This report must not be used by the client to claim product certification, approval, or
endorsement by NVLAP, NIST or any agency of the US Government.

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1. GENERAL INFORMATION

1.1. Report information

1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that PTS approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that PTS in any way guarantees the later performance of the product/equipment.

1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, PTS therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through PTS, unless the applicant has authorized PTS in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of

World Standardization Certification&TestingCO.,LTD

(FCC Registered Test Site Number: 131628) on

Building A, Baoshi Road, Baoshi Science & Technology Park, Bao'an District, Shenzhen, Guangdong, China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : Car Mount for iPad - ENHANCED and DELUXE version

Applicant : CAMI (HK) COMPANY LIMITED
Room 903, 9/F, New Commerce Centre, 19 On Sum Street,
Shatin, N.T. Hong Kong

Model Number : M2-20-3F, MI-20-3R, MI-20-3F, M2-20-3R

Model different : All models have the same constructions, circuit diagram and PCB layout. Only model name and color are different.

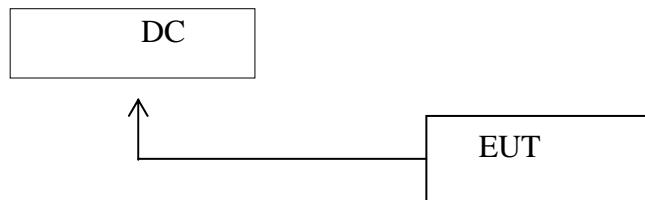
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Additional Information

Frequency : 88.1-107.9MHz

Power Supply : DC 12V

2.2. Block Diagram of EUT Configuration



2.3. Support Equipment List

1. iPad player FCC DOC

2.4. Test Conditions

Temperature: 23~25°C

Relative Humidity: 55~63 %

3. FCC ID LABEL

FCC ID: ZR6-M2-20-3F

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and**
- 2. This device must accept any interference received, including interference that may cause undesired operation.**

Label Location on EUT

EUT Bottom View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

FCC 15 Subpart C,Paragraph 15.239

Test Standards	Test Items	Test Results
FCC Part 15 Subpart C, Paragraph 15.239	Radiated Emission (30MHz to 1000MHz)	Pass
FCC Part 15 Subpart C, Paragraph 15.239	Occupied Bandwidth	Pass

Remark: "N/A" means "Not applicable."

Modifications

No modification was made.

5. TEST EQUIPMENT USED

EQUIPMENT/FACILITIES	MANUFACTURER	MODEL #	SERIAL NO.	DATE OF CAL.	CAL. INTERVAL
Cable	Resenberger	N/A	NO.1	Mar 10, 2011	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10, 2011	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10, 2011	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10, 2011	1 Year
50 Ω Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10, 2011	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.18,2010	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2010	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9mx6mx6m	N/A	Feb.20,2011	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2011	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2011	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2011	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2010	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2010	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2011	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2010	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2010	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2011	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2011	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2010	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2011	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2011	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.29,2010	1 Year

6. RADIATED EMISSIONS

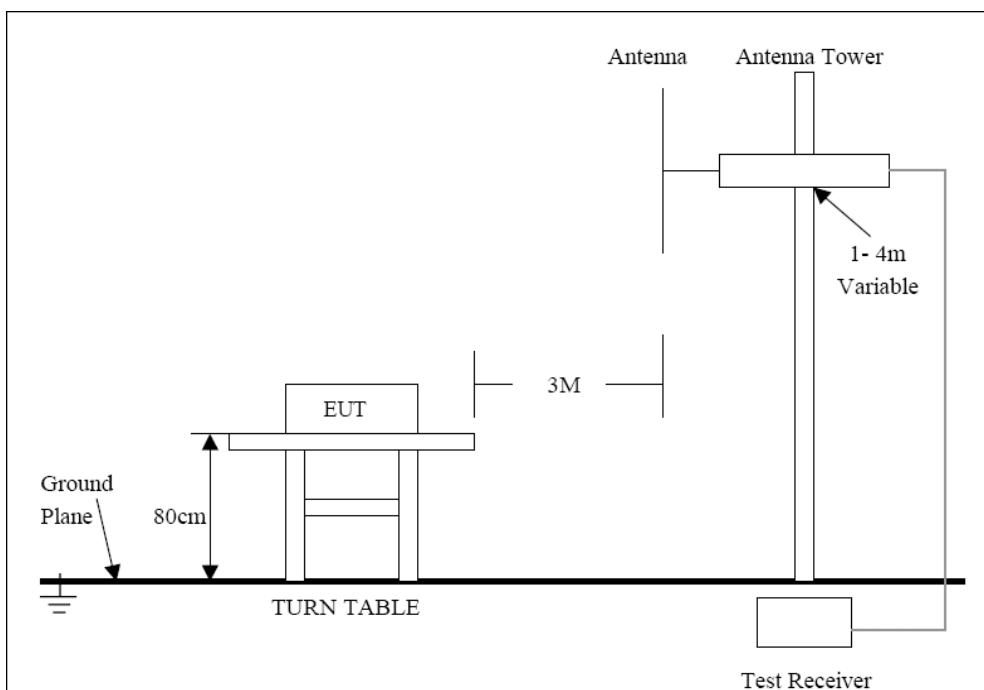
6.1. Test Equipment

Please refer to section 4 this report.

6.2. Test Procedure

The out of band emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part Subpart C limits.

6.3. Radiated Test Setup



For the accrual test configuration, please refer to the related items-photos of Testing.

6.4. Radiated Emission Limit

CARRIER FREQUENCY WILL NOT EXCEEDS 48.0 dBuV/m AT 3M. OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

Frequency (MHz)	Distance (m)	Field Strength (dBuV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
ABOVE 960	3	54.0

6.5. Radiated Emission Test Result

FREQ. (MHZ)	POL V/H	LEVEL (DB μ V)		LIMIT (DB μ V)		MARGIN (DB)	
		AV	PK	AV	PK	AV	PK
88.1	H	42.12	47.89	48	68	-5.88	-20.11
88.1	V	44.15	49.25	48	68	-3.85	-18.75
98.0	H	41.42	48.25	48	68	-6.58	-19.75
98.0	V	45.28	52.36	48	68	-2.72	-15.64
107.9	H	42.13	49.35	48	68	-5.87	-18.65
107.9	V	43.32	51.37	48	68	-4.68	-16.63

FREQ. (MHZ)	POL V/H	LEVEL (DB μ V)	LIMIT (DB μ V)	MARGIN (DB)
For 88.0MHz				
176.2	H	25.32	43.5	18.18
176.2	V	23.26	43.5	20.24
264.3	H	22.38	46	23.62
264.3	V	19.65	46	26.35
352.4	H	19.76	46	26.24
352.4	V	20.65	46	25.35
440.5	H	--	46	--
440.5	V	--	46	--
528.6	H	--	46	--
528.6	V	--	46	--
616.7	H	--	46	--
616.7	V	--	46	--
704.8	H	--	46	--
704.8	V	--	46	--
792.9	H	--	54	--
792.9	V	--	54	--
881.0	H	--	54	--
881.0	V	--	54	--

FREQ. (MHZ)	POL V/H	LEVEL (DB μ V)	LIMIT (DB μ V)	MARGIN (DB)
For 98.0MHz				
196.0	H	25.35	43.5	18.15
196.0	V	28.76	43.5	14.74
294.0	H	19.67	46	26.33
294.0	V	21.25	46	24.75
392.0	H	18.67	46	27.33
392.0	V	19.77	46	26.23
490.0	H	--	46	--
490.0	V	--	46	--
588.0	H	--	46	--
588.0	V	--	46	--
686.0	H	--	46	--
686.0	V	--	46	--
784.0	H	--	46	--
784.0	V	--	46	--
882.0	H	--	54	--
882.0	V	--	54	--
980.0	H	--	54	--
980.0	V	--	54	--

FREQ. (MHZ)	POL V/H	LEVEL (DB μ V)	LIMIT (DB μ V)	MARGIN (DB)
For 107.9MHz				
215.8	H	22.56	43.5	20.94
215.8	V	23.71	43.5	19.79
323.7	H	23.79	46	22.21
323.7	V	25.13	46	20.87
431.6	H	21.26	46	24.74
431.6	V	23.45	46	22.55
539.5	H	--	46	--
539.5	V	--	46	--
647.4	H	--	46	--
647.4	V	--	46	--
755.3	H	--	46	--
755.3	V	--	46	--
863.2	H	--	46	--
863.2	V	--	46	--
971.1	H	--	54	--
971.1	V	--	54	--
1079.0	H	--	54	--
1079.0	V	--	54	--

Note: The frequency will not be recorded if the the level of the spurious emission is very weak(no harmonic or spurious emissions were higher than 20dB below the limits of 47 CFR Part 15.209).

7. OCCUPIED BANDWIDTH

7.1. Test Equipment

Please refer to Section 4 this report.

7.2. Test Procedure

1. The EUT was tested according C63.4-2003. The test was performed with Spectrum Analyzer at FCC Registration laboratory .
2. Based on FCC Part15 C Section 15.239.
Operation within the band 88MHz – 108MHz

7.3. Requirements

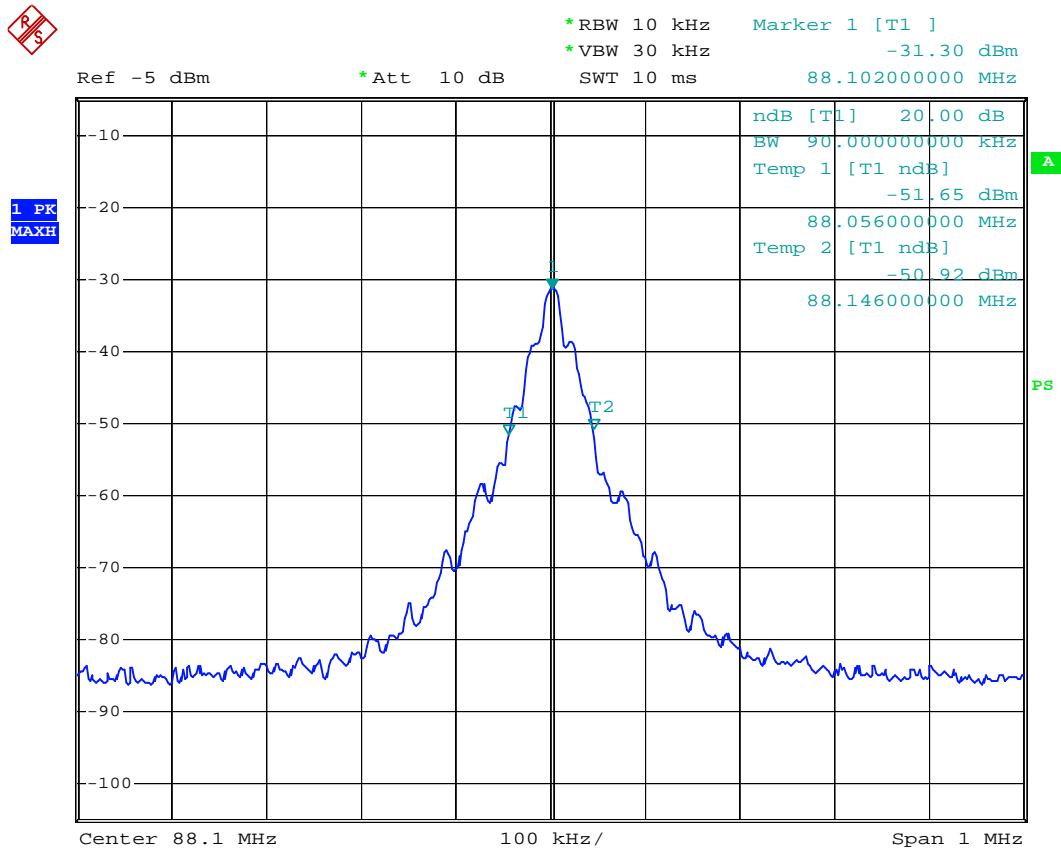
Intentional radiators operating under the alternative provisions to the geneql emission limits,as Emissions from the device shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

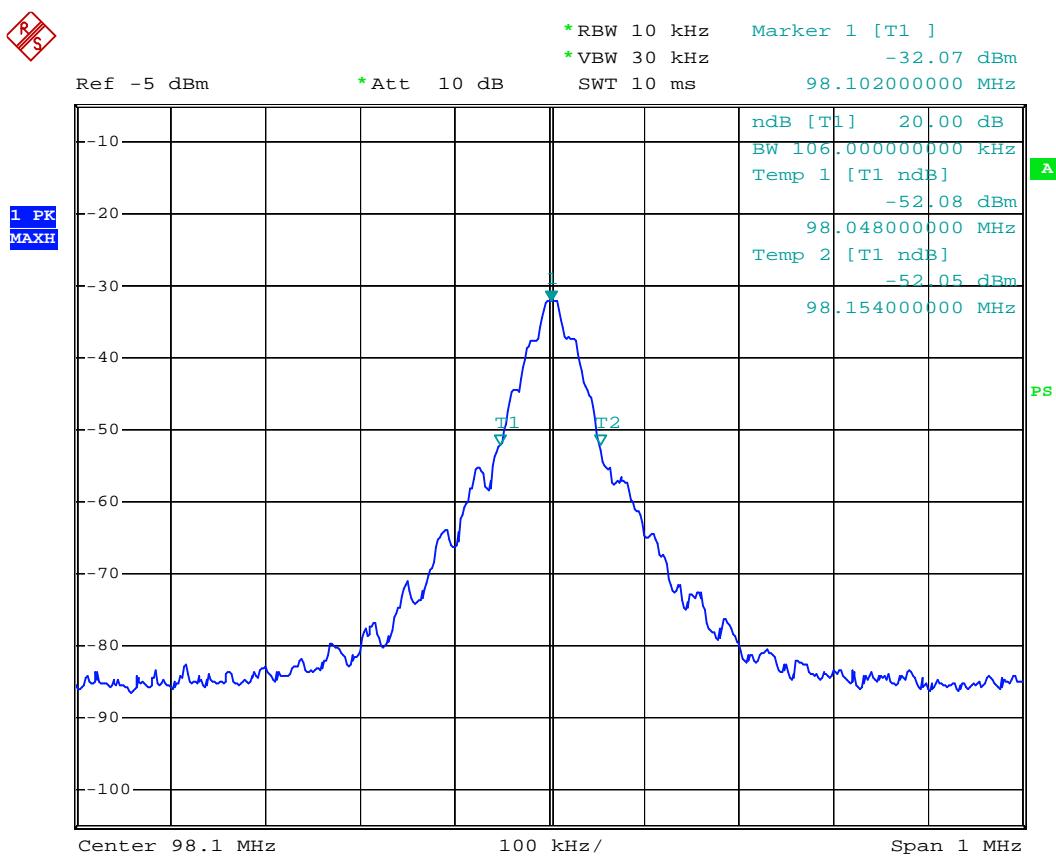
7.4. Test Result

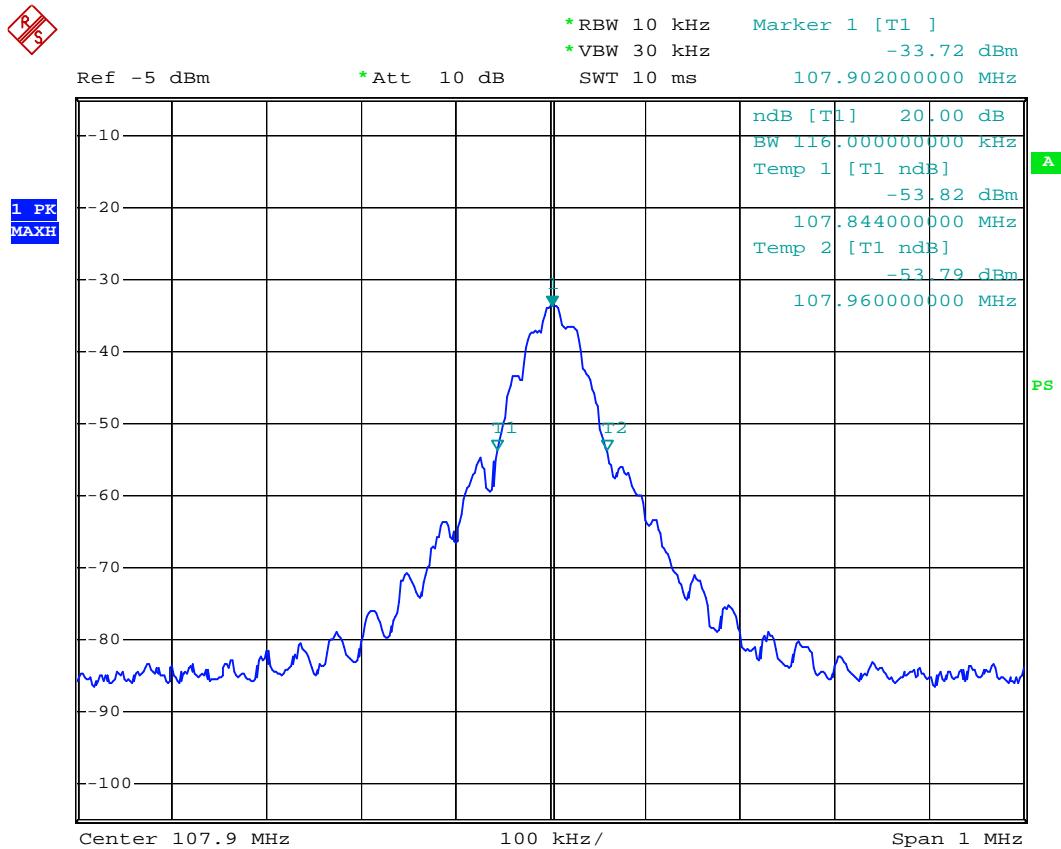
Method of measurement:

The bandwidth was properly tested with maximum audio input(such as MP3 Player)

1. Set both RBW and VBW of spectrum analyzer to 10 kHz and 30kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.
2. Mark the bandwidth of 200kHz points and plot the graph on spectrum analyzer.







8. ANTENNA REQUIREMENT

8.1. Standard applicable

For intentional device, according to FCC 47 CFR Section 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.

8.2. Antenna connected construction

The antenna used in this product is cable antenna solder to PCB and no consideration of replacement.

FCC ID LABEL

FCC ID: ZR6-M2-20-3F

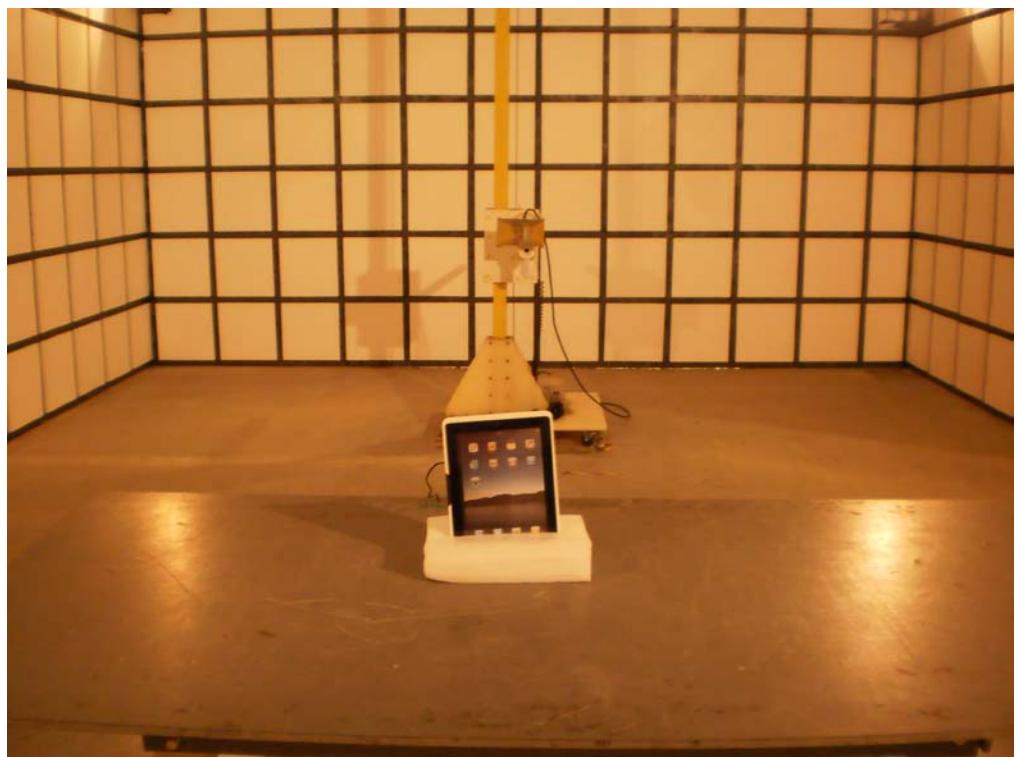
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Label Location on EUT

EUT Bottom View/ FCC ID Label Location



RADIATED EMISSION TEST





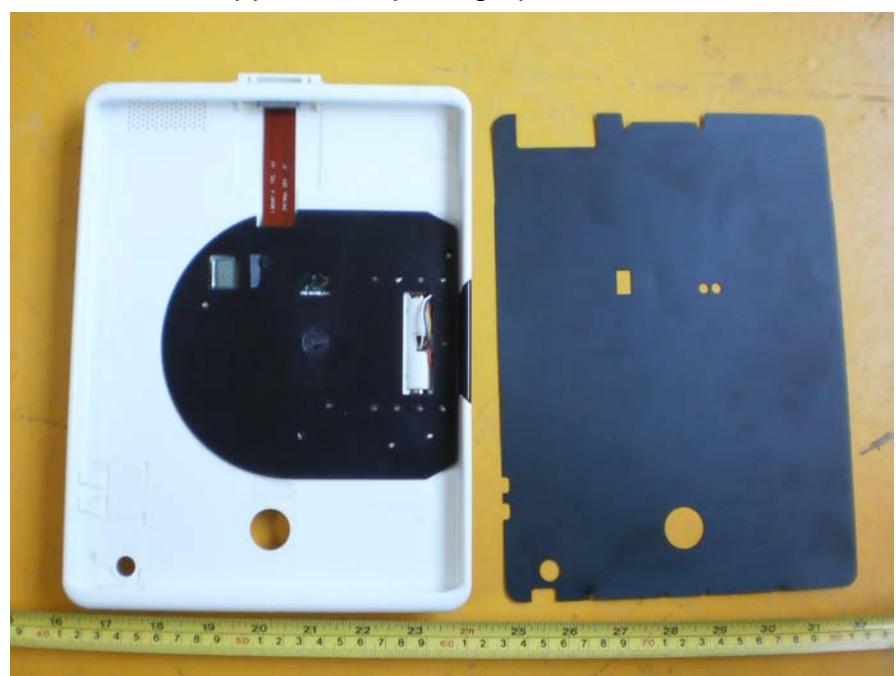
Appearance photograph of EUT



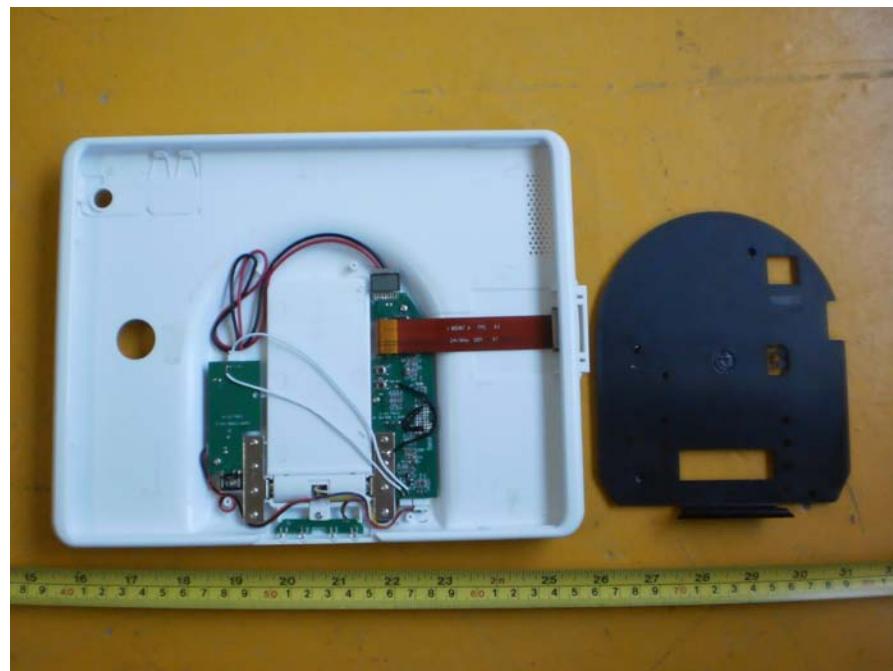
Appearance photograph of EUT



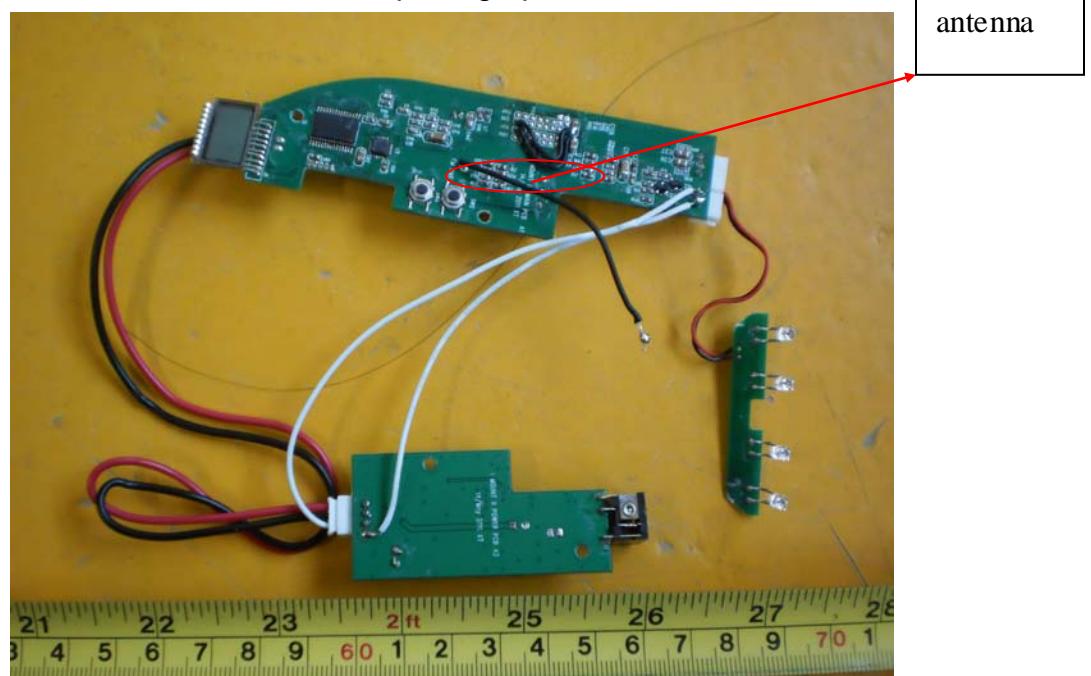
Appearance photograph of EUT



Inside photograph of EUT



Main PCB photograph of EUT



Main PCB photograph of EUT

