

VERIFICATION OF COMPLIANCE

- **Equipment** : VigorAP 910C Dual Band AP
Model No. : VigorAP 910C
Applicant : DrayTek Corp.
No.26 Fu Shing Rd., HuKou County, Hsin-Chu
Industrial Park, Hsin-Chu, Taiwan 303 R.O.C

**I HEREBY****DECLARE THAT :**

The equipment is in accordance with the procedures are given in **ANSI C63.4-2009** and the energy emitted by this equipment was **Passed by CISPR PUB. 22, FCC Part 15 Subpart B, Canada Standard ICES-003 Issue 5**. Radiated and conducted emissions are compliance in **Class B** limits.

The test was carried out on **Oct. 16, 2014** at **SPORTON INTERNATIONAL INC. LAB.**

A handwritten signature in blue ink, appearing to read 'Kero Kuo', written over a horizontal line.

Kero Kuo
Assistant Manager



FCC TEST REPORT

Authorized under **D**eclaration **o**f **C**onformity

according to

**47 CFR FCC Rules and Regulations Part 15 Subpart B,
Class B Digital Device
and
Canada Standard ICES-003 Issue 5**

Equipment : VigorAP 910C Dual Band AP

Model No. : VigorAP 910C

Filing Type : Declaration of Conformity

Applicant : DrayTek Corp.

No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial Park,
Hsin-Chu,Taiwan 303 R.O.C

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by TAF or any agency of U.S. government.**

SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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VERTIFICATE OF COMPLIANCE

Authorized under **D**eclaration **o**f **C**onformity

according to

**47 CFR FCC Rules and Regulations Part 15 Subpart B,
Class B Digital Device
and
Canada Standard ICES-003 Issue 5**

Equipment : VigorAP 910C Dual Band AP

Model No. : VigorAP 910C

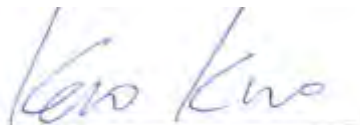
Applicant : DrayTek Corp.

No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial Park,
Hsin-Chu,Taiwan 303 R.O.C

HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 - 2009** and the energy emitted by this equipment were **passed CISPR PUB. 22** and **FCC Part 15 Subpart B and Canada Standard ICES-003 Issue 5** in both radiated and conducted emission **Class B** limits.

The product sample received on Jul. 15, 2014 and completely tested on **Oct. 16, 2014** at **SPORTON International Inc. LAB.**


Kero Kuo / Assistant Manager

SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

1. General Description of Equipment under Test

1.1 Applicant

DrayTek Corp.

No.26 Fu Shing Rd., HuKou County, Hsin-Chu Industrial Park,
Hsin-Chu,Taiwan 303 R.O.C

1.2 Manufacturer

EDIMAX TECHNOLOGY CO., LTD.

No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan

1.3 Basic Description of Equipment under Test

Equipment : VigorAP 910C Dual Band AP
 Model No. : VigorAP 910C
 Trade Name : DrayTek
 Power Supply Type : switching adapter , PoE 48V
 AC Power Cord : Wall-mount , 2 pin
 DC Power Cable : Non-Shielded, 1.5m, 2 pin
 The maximum operating frequency is 5.850 GHz

1.4 Feature of Equipment under Test

Accessories Information				
AC Adapter	Brand Name	APD	Model Name	WA-12M12R
	Power Rating	I/P: 100-240Vac , 0.5A ; O/P: 12Vdc,1A		
	Power Cord	1.5 meter, non-shielded cable, with one ferrite core		

Please refer to user's manual.

2. Test Configuration of Equipment under Test

2.1 Test Manner

- a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The complete test system included remote workstation and EUT for EMI test. The remote workstation included NoteBook (x3) and PoE.
- c. The following test modes were pretested for conducted final test :
 - Mode 1. Adapter Mode Flash:16MB (WiFi 2.4G+5G Link)
 - Mode 2: PoE Mode Flash:16MB (WiFi 2.4G+5G Link)
 - Mode 3: Adapter Mode Flash:8MB (WiFi 2.4G+5G Link)For operating "**Mode 1**" is the worst case and it was record in this test report.
- d. The following test modes were pretested (below 1GHz) for EMI test:
 - Mode 1: Adapter Mode, WiFi 2.4G+5G Link, Flash:8M
 - Mode 2: Adapter Mode, WiFi 2.4G+5G Link, Flash:16M
 - Mode 3: PoE Mode, WiFi 2.4G+5G Link, Flash:16MFor operating "**Mode 3**" is the worst case and it was record in this test report.
- e. The following test modes were pretested (above 1GHz) for EMI test:
 - Mode 1. Adapter Mode, WiFi 2.4G+5G Link, Flash:16M
 - Mode 2: PoE Mode, WiFi 2.4G+5G Link, Flash:16MFor operating "**Mode 1**" is the worst case and it was record in this test report.
- f. Frequency range investigated: Conducted 150 kHz to 30 MHz, Radiated 30 MHz to 30 GHz.

2.2 Description of Test System

For conducted emission

No.	Description	Manufacturer	Model	FCC ID	Signal Cable Description
For Local					
1	PoE (For PoE Mode use)	PowerDsine	PD-3501G/AC	DoC	RJ45 Cable, Non-Shield,1.0m
For Remote					
-	Notebook	DELL	D5500	DoC	RJ45 Cable, Non-Shield,10m
-	Notebook (For 2.4G use)	DELL	Vostro 3350	DoC	--
-	Notebook (For 5G use)	DELL	Vostro 3350	DoC	--

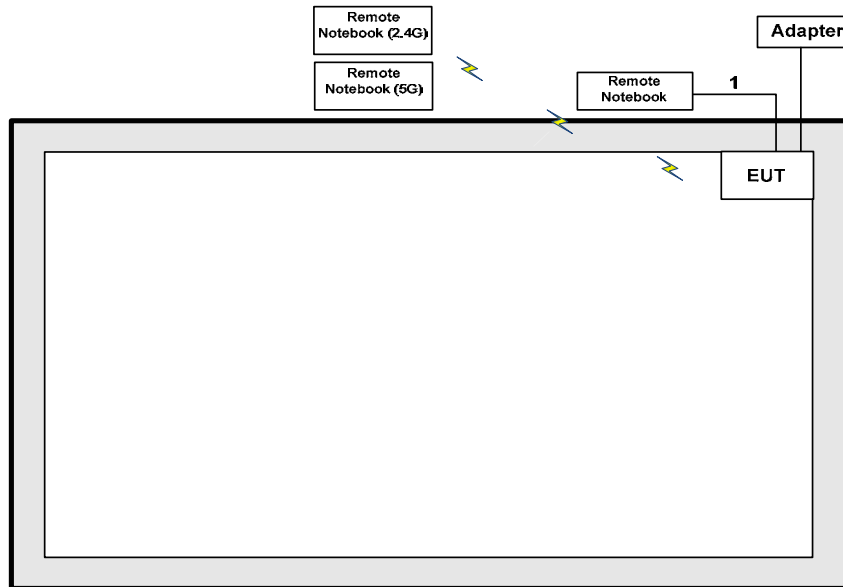
For radiated emission (below 1GHz)

No.	Description	Manufacturer	Model	FCC ID	Signal Cable Description
For Remote					
-	Notebook	DELL	D5500	DoC	RJ45 Cable, Non-Shield,1.0m
-	Notebook (For 2.4G use)	DELL	Vostro 3350	DoC	--
-	Notebook (For 5G use)	DELL	Vostro 3350	DoC	--
-	PoE	PowerDsine	PD-3501G	DoC	RJ45 Cable, Non-Shield,10m

For radiated emission (above 1GHz)

No.	Description	Manufacturer	Model	FCC ID	Signal Cable Description
For Remote					
-	Notebook	DELL	D5500	DoC	RJ45 Cable, Non-Shield,10m
-	Notebook (For 2.4G use)	DELL	Vostro 3350	DoC	--
-	Notebook (For 5G use)	DELL	Vostro 3350	DoC	--
-	PoE (For PoE Mode use)	PowerDsine	PD-3501G/AC	DoC	RJ45 Cable, Non-Shield,1.0m

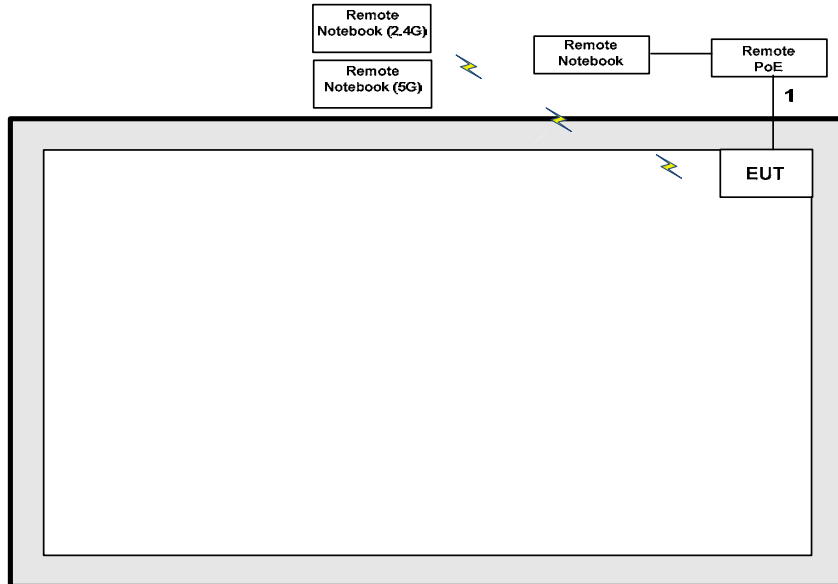
2.3 Connection Diagram of Test System for Conducted Emission



1. The RJ45 cable is connected from the EUT to support unit 1.

Note: Above support unit on behalf of the meaning, please refer to section 2.2.

2.4 Connection Diagram of Test System for Radiation Emission



1. The RJ45 cable is connected from the EUT to support unit 4.

Note: Above support unit on behalf of the meaning, please refer to section 2.2.

3. Test Software

< EMI >

Conduction

Mode1

One executive program was used as the test software under Win 7.

The programs were executed as follows:

- a. Turn on the power of all equipment.
- b. The remote notebook executed "Ping" to maintain connection with the EUT via RJ45 cable and WiFi function.

Radiated emission < below 1GHz >

One executive program was used as the test software under Win 7.

The programs were executed as follows:

- a. Turn on the power of all equipment.
- b. The remote notebook executed "Ping" to maintain connection with the EUT via RJ45 cable and WiFi function.
- c. The remote notebook executed "Ping" to maintain connection with the EUT via RJ45 cable and PoE.

Radiated emission < above 1GHz >

One executive program was used as the test software under Win 7.

The programs were executed as follows:

- a. Turn on the power of all equipment.
- b. The remote notebook executed "Ping" to maintain connection with the EUT via RJ45 cable and WiFi function.

4. General Information of Test

4.1 Test Facility

For conducted emission

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.
 TEL : 886-3-327-3456
 FAX : 886-3-327-0973

Test Site No. : CO04-HY

For radiated emission below 1GHz

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.
 TEL : 886-3-327-3456
 FAX : 886-3-327-0973

Test Site No. : 10CH01-HY

For radiated emission above 1GHz

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.
 TEL : 886-3-327-3456
 FAX : 886-3-327-0973

Test Site No. : 03CH04-HY

4.2 Uncertainty of Test Site

Test Items	Test Site No.	Uncertainty	Remark
Conducted Emissions	CO04-HY	± 2.2 dB	Confidence levels of 95%
Radiated Emissions below 1GHz	10CH01-HY	± 2.5 dB	Confidence levels of 95%
Radiated Emissions above 1GHz	03CH04-HY	± 4.7 dB	Confidence levels of 95%

4.3 Test Voltage

120V / 60Hz

4.4 Standard for Methods of Measurement

ANSI C63.4-2009

4.5 Test in Compliance with

CISPR PUB. 22 and FCC Part 15 Subpart B and Canada Standard ICES-003 Issue 5

4.6 Frequency Range Investigated

- a. Conducted emission test: from 150 kHz to 30 MHz
- b. Radiated emission test: from 30 MHz to 30 GHz

4.7 Test Distance

- a. The test distance of radiated emission from antenna to EUT is 10 M (from 30 MHz ~ 1 GHz)
- b. The test distance of radiated emission from antenna to EUT is 3 M (from 1 GHz ~ 9 GHz)
- c. The test distance of radiated emission from antenna to EUT is 1 M (from 9 GHz ~ 30 GHz)

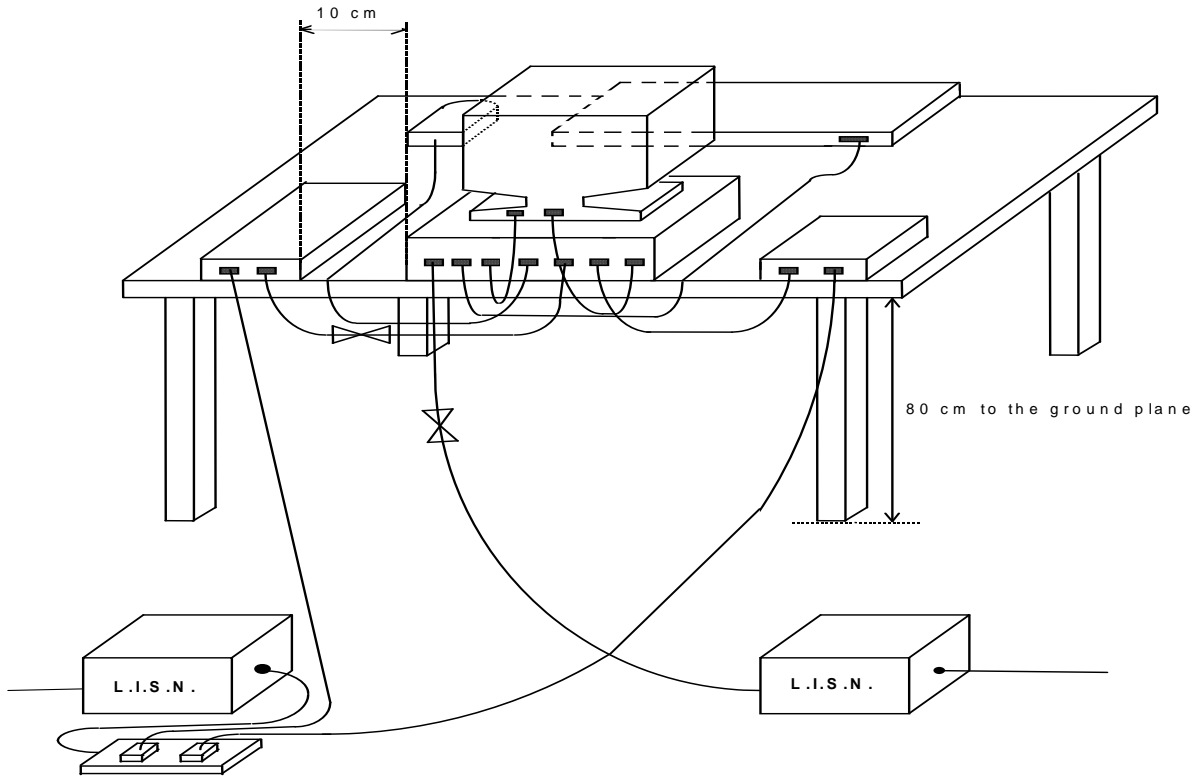
5. Test of Conducted Powerline

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in ANSI C63.4 Clause 7 and Canada Standard ICES-003. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meter above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

5.1 Test Procedures

- a. The EUT was warmed up for 15 minutes before testing started.
- b. The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- c. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- d. All the support units are connected to the other LISN.
- e. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- f. The CISPR states that a 50 ohm, 50 microhenry LISN should be used.
- g. Both sides of AC line were checked for maximum conducted interference.
- h. The frequency range from 150 kHz to 30 MHz was searched.
- i. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.2 Typical Test Setup Layout of Conducted Powerline

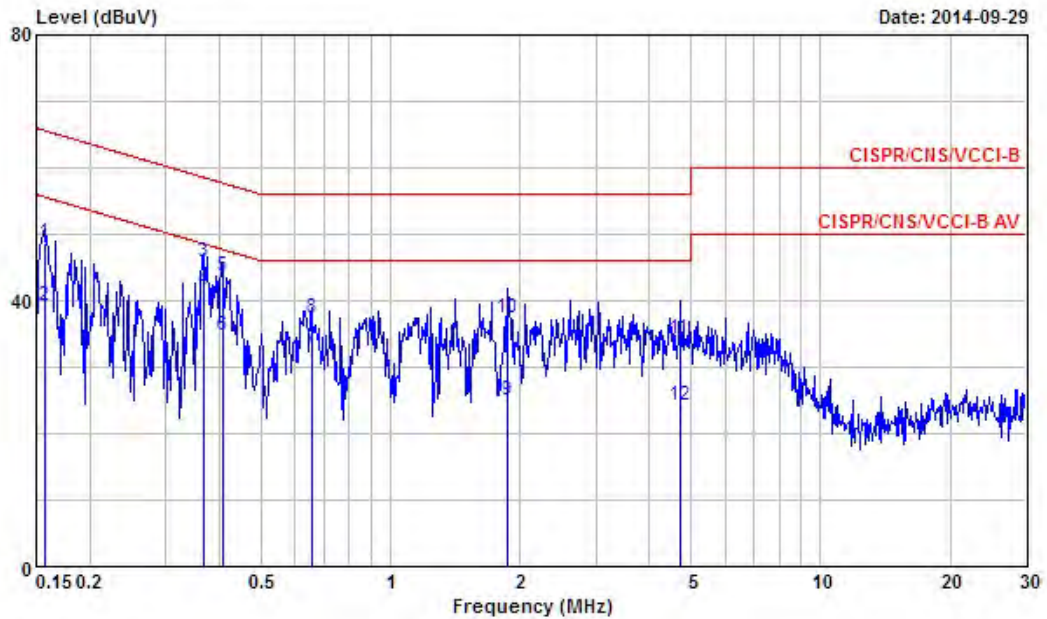


5.3 Test Result of AC Powerline Conducted Emission

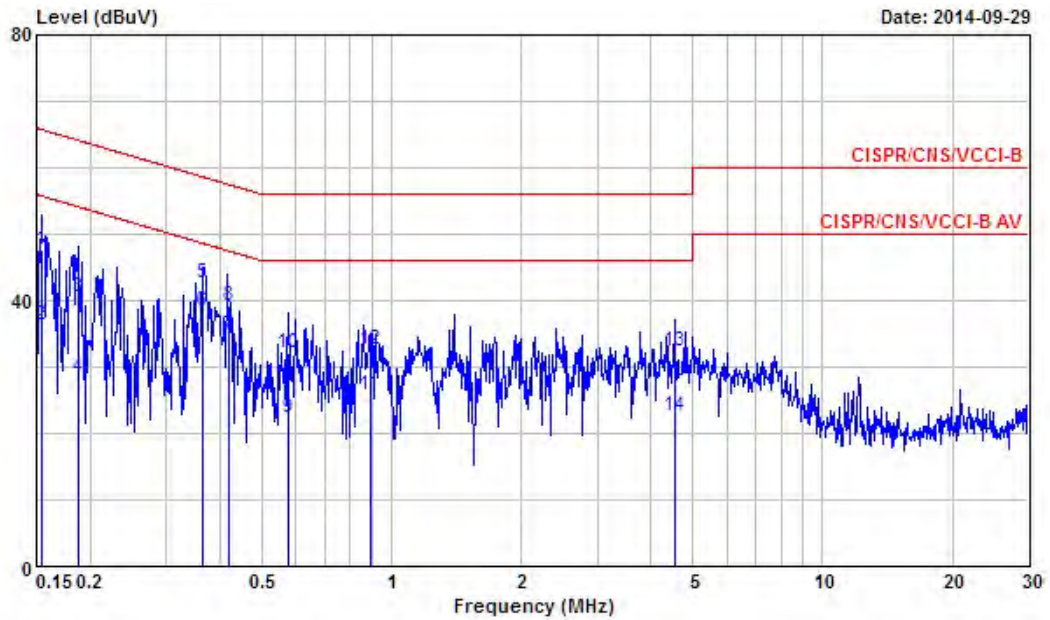
Test Mode	Mode 1	Temperature	25°C
Test Engineer	Zeus	Humidity	45%

Note: Corrected Reading (dBµV) = LISN Factor + Cable Loss + Read Level = Level

■The test was passed at the minimum margin that marked by the frame in the following data



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.1564950	48.68	-16.97	65.65	48.41	0.03	0.24	QP
2	0.1564950	39.27	-16.38	55.65	39.00	0.03	0.24	Average
3	0.3672530	45.81	-12.75	58.56	45.58	0.03	0.20	QP
4	0.3672530	41.64	-6.92	48.56	41.41	0.03	0.20	Average
5	0.4061490	43.80	-13.93	57.73	43.57	0.03	0.20	QP
6	0.4061490	34.82	-12.91	47.73	34.59	0.03	0.20	Average
7	0.6543010	32.96	-13.04	46.00	32.76	0.05	0.15	Average
8	0.6543010	37.33	-18.67	56.00	37.13	0.05	0.15	QP
9	1.870	24.99	-21.01	46.00	24.64	0.07	0.28	Average
10	1.870	37.29	-18.71	56.00	36.94	0.07	0.28	QP
11	4.700	34.33	-21.67	56.00	34.09	0.12	0.12	QP
12	4.700	24.28	-21.72	46.00	24.04	0.12	0.12	Average



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.1540270	47.57	-18.21	65.78	47.31	0.02	0.24	QP
2	0.1540270	36.37	-19.41	55.78	36.11	0.02	0.24	Average
3	0.1873850	40.55	-23.60	64.15	40.32	0.02	0.21	QP
4	0.1873850	28.42	-25.73	54.15	28.19	0.02	0.21	Average
5	0.3653120	42.73	-15.88	58.61	42.50	0.03	0.20	QP
6	0.3653120	38.38	-10.23	48.61	38.15	0.03	0.20	Average
7	0.4192670	34.63	-12.83	47.46	34.41	0.03	0.19	Average
8	0.4192670	39.29	-18.17	57.46	39.07	0.03	0.19	QP
9	0.5761730	22.28	-23.72	46.00	22.08	0.04	0.16	Average
10	0.5761730	32.15	-23.85	56.00	31.95	0.04	0.16	QP
11	0.8896870	25.69	-20.31	46.00	25.53	0.05	0.11	Average
12	0.8896870	32.52	-23.48	56.00	32.36	0.05	0.11	QP
13	4.530	32.32	-23.68	56.00	32.11	0.10	0.11	QP
14	4.530	22.57	-23.43	46.00	22.36	0.10	0.11	Average

5.4 Photographs of Conducted Power line Test Configuration

- The photographs show the configuration that generates the maximum emission.

Mode 1

FRONT VIEW



REAR VIEW



SIDE VIEW



6. Test of Radiated Emission

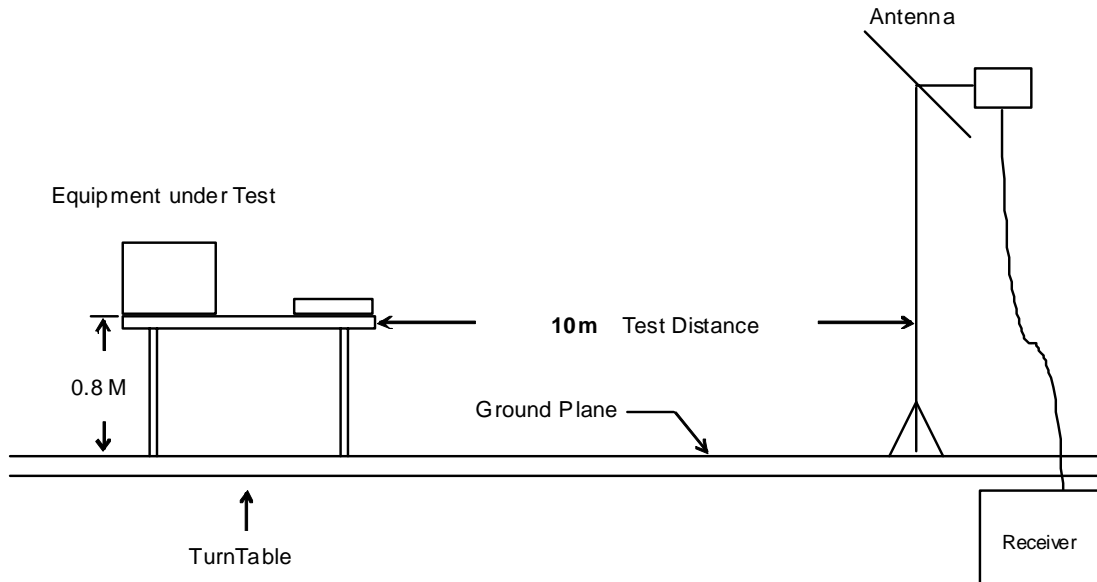
Radiated emissions were measured with a bandwidth of 120 kHz for 30 MHz to 1000 MHz and 1 MHz for above 1GHz according to the methods defines in ANSI C63.4, Clause 8 and Canada Standard ICES-003. The EUT was placed on a nonmetallic stand, 0.8 meter above the ground plane. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1 Test Procedures

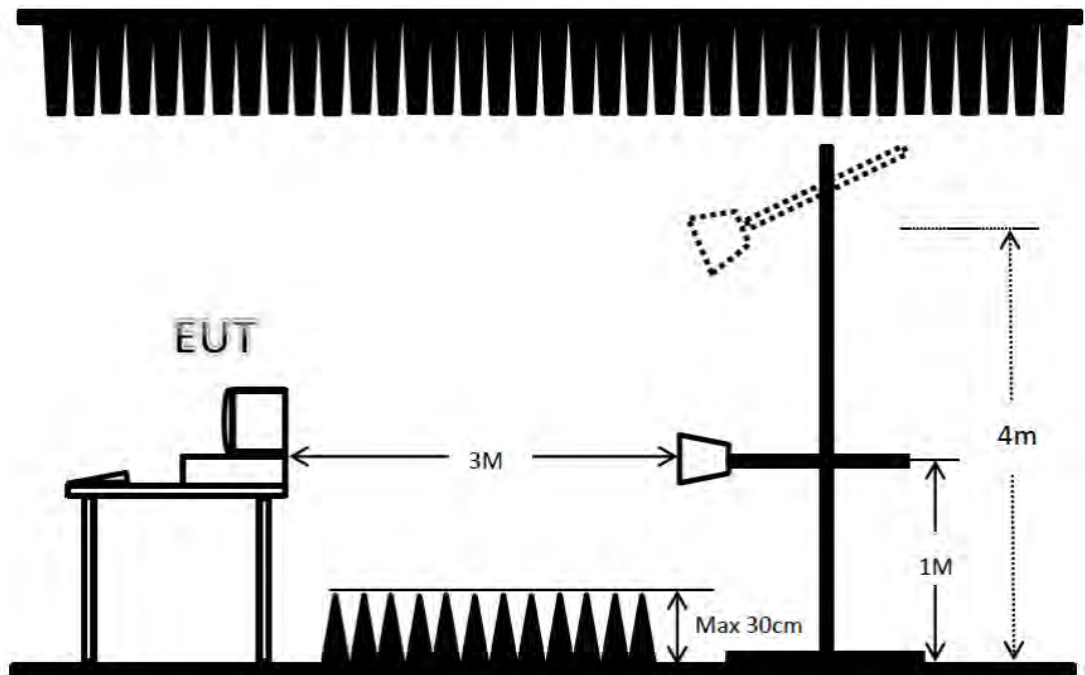
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 10/3/1 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

6.2 Typical Test Setup Layout of Radiated Emission

< Below 1GHz >



< Above 1GHz >



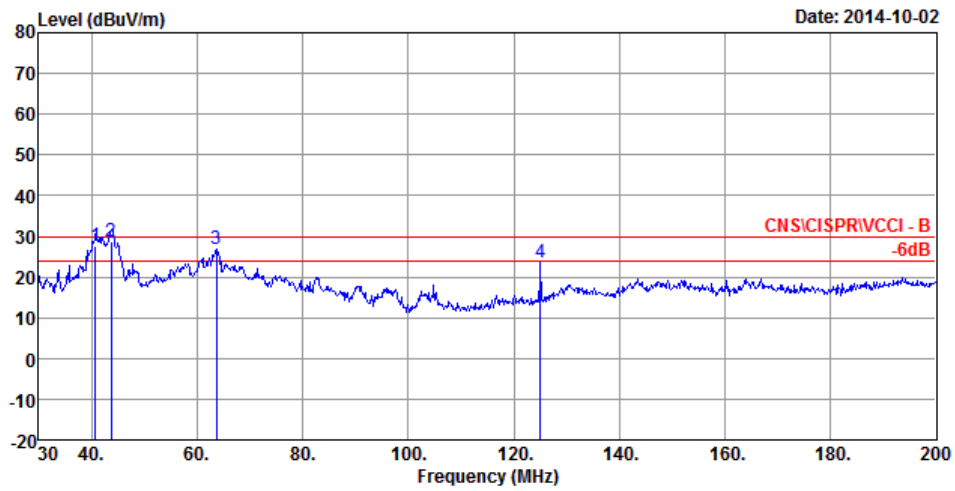
6.3 Test Result of Radiated Emission (Below 1GHz)

Frequency Range of Test	From 30 MHz to 1,000 MHz	Test Distance	10m
Test Mode	Mode 3	Temperature	20°C
Test Engineer	Verson	Humidity	56%

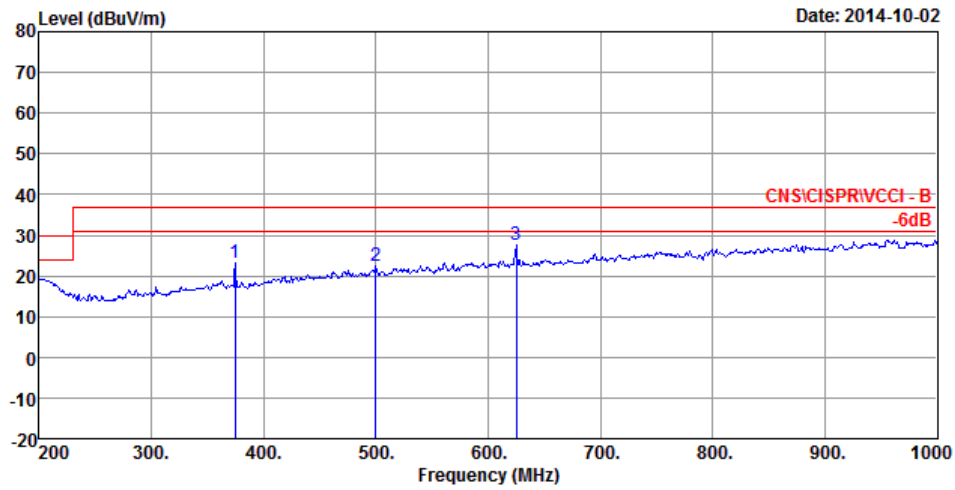
Note: 1. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)

2. Corrected Reading : Antenna Factor + Cable Loss + Read Level – Preamp Factor = Level

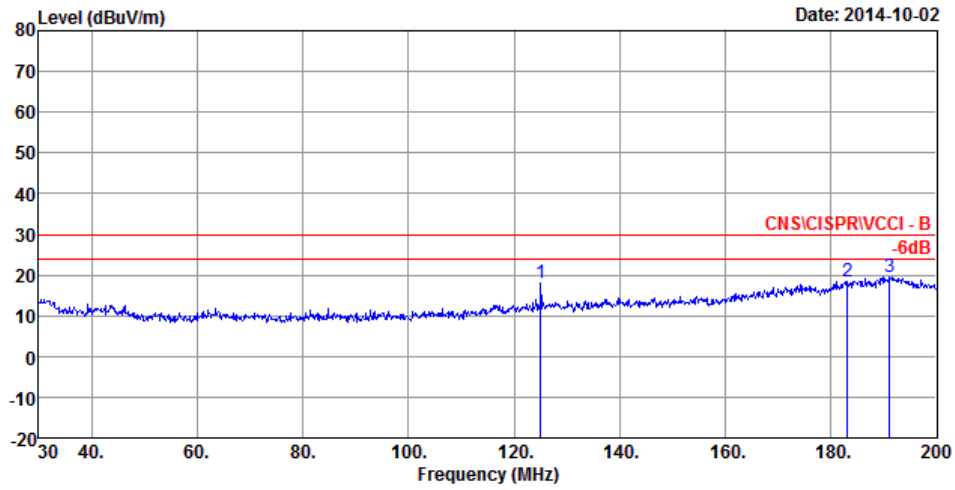
■The test was passed at the minimum margin that marked by the frame in the following data



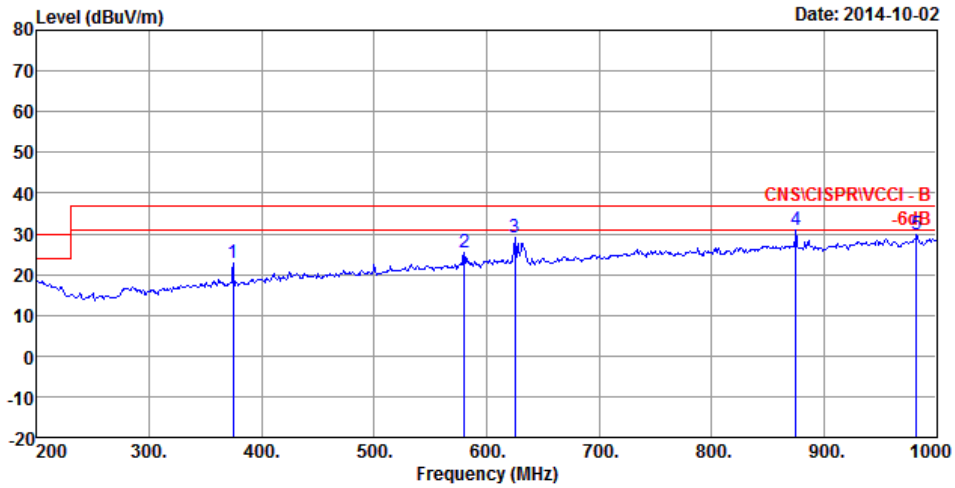
	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB		cm	deg
1	40.76	27.50	-2.50	30.00	43.12	1.58	11.42	28.62	QP	100	330
2	MX	43.77	-1.32	30.00	44.27	1.69	11.33	28.61	QP	100	340
3	63.66	26.92	-3.08	30.00	43.94	2.03	9.50	28.55	Peak	---	---
4	125.03	23.52	-6.48	30.00	38.13	2.82	10.89	28.32	Peak	---	---



	Freq	Level	Over Limit	Limit Line	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB		cm	deg
1	374.40	23.13	-13.87	37.00	30.59	4.99	15.32	27.77	Peak	---	---
2	500.00	22.47	-14.53	37.00	27.51	5.84	17.46	28.34	Peak	---	---
3 MX	624.80	27.55	-9.45	37.00	29.65	6.96	19.24	28.30	Peak	---	---



	Freq	Level	Over Limit	Limit Line	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB		cm	deg
1	125.03	18.08	-11.92	30.00	32.69	2.82	10.89	28.32	Peak	---	---
2	183.17	18.56	-11.44	30.00	29.81	3.44	13.37	28.06	Peak	---	---
3 MX	191.16	19.63	-10.37	30.00	30.15	3.50	14.01	28.03	Peak	---	---



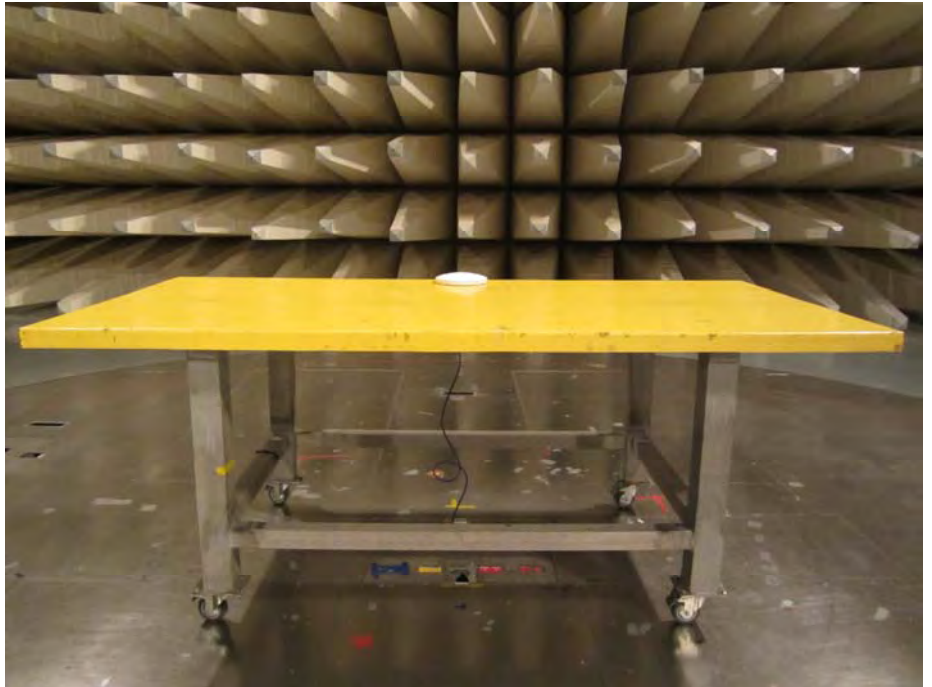
	Freq	Level	Over Limit	Limit Line	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB	cm	deg
1	374.40	22.85	-14.15	37.00	30.31	4.99	15.32	27.77	Peak	---
2	580.00	25.32	-11.68	37.00	28.17	6.45	19.05	28.35	Peak	---
3	624.80	29.18	-7.82	37.00	31.28	6.96	19.24	28.30	Peak	---
4 MX	875.20	30.76	-6.24	37.00	28.86	7.94	21.57	27.61	Peak	---
5	982.40	29.80	-7.20	37.00	25.85	8.79	22.34	27.18	Peak	---

6.4 Photographs of Radiated Emission (Below 1GHz) Test Configuration

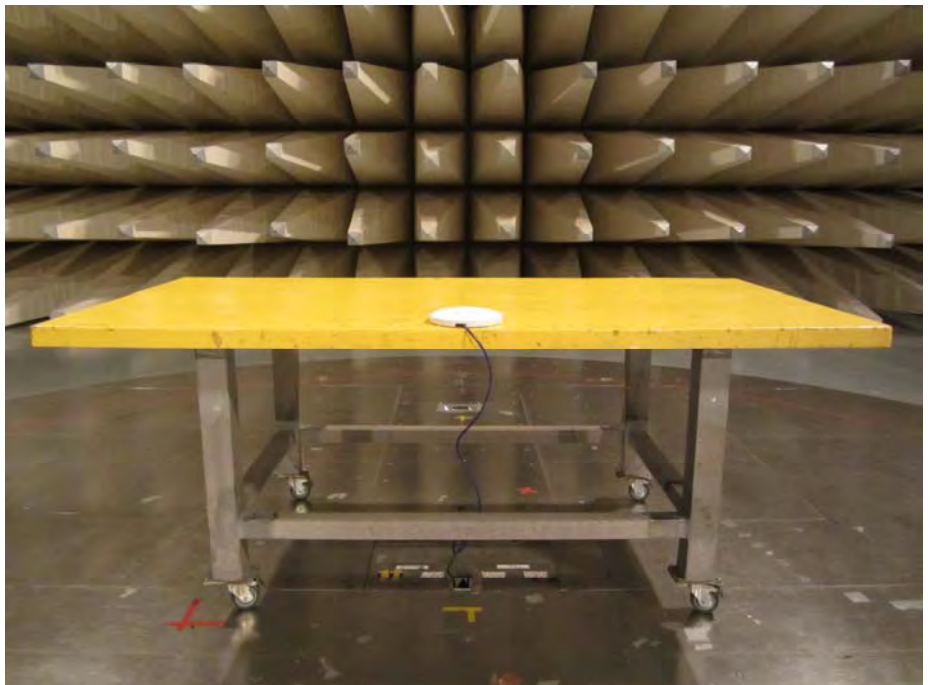
- The photographs show the configuration that generates the maximum emission.

Mode 3

FRONT VIEW



REAR VIEW



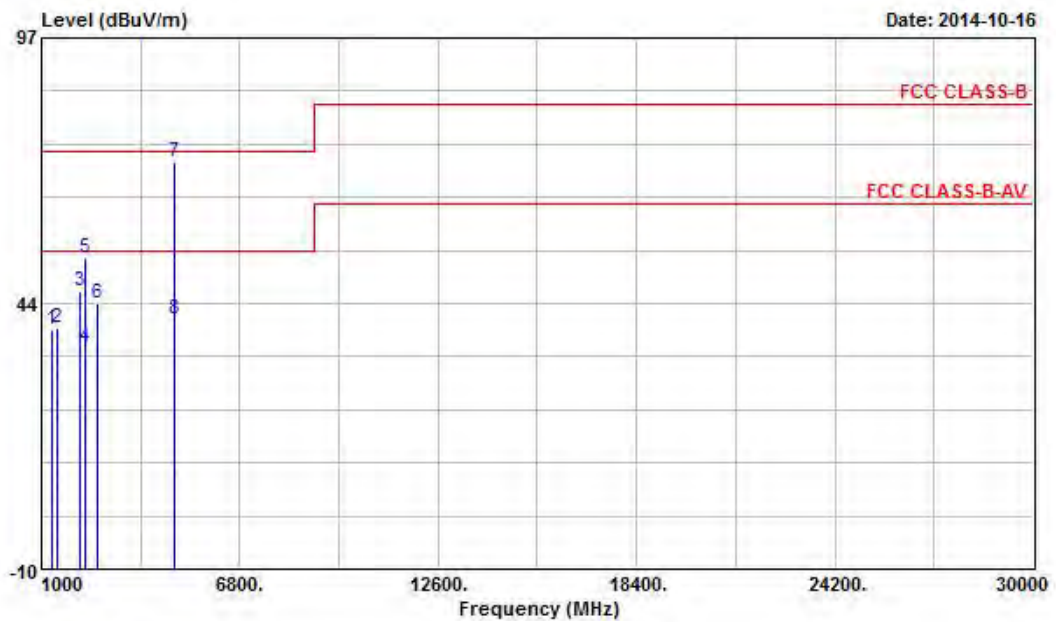
6.5 Test Result of Radiated Emission (Above 1GHz)

Frequency Range of Test	From 1 GHz to 30 GHz	Test Distance	3m / 1m
Test Mode	Mode 1	Temperature	21°C
Test Engineer	Kevin	Humidity	52%

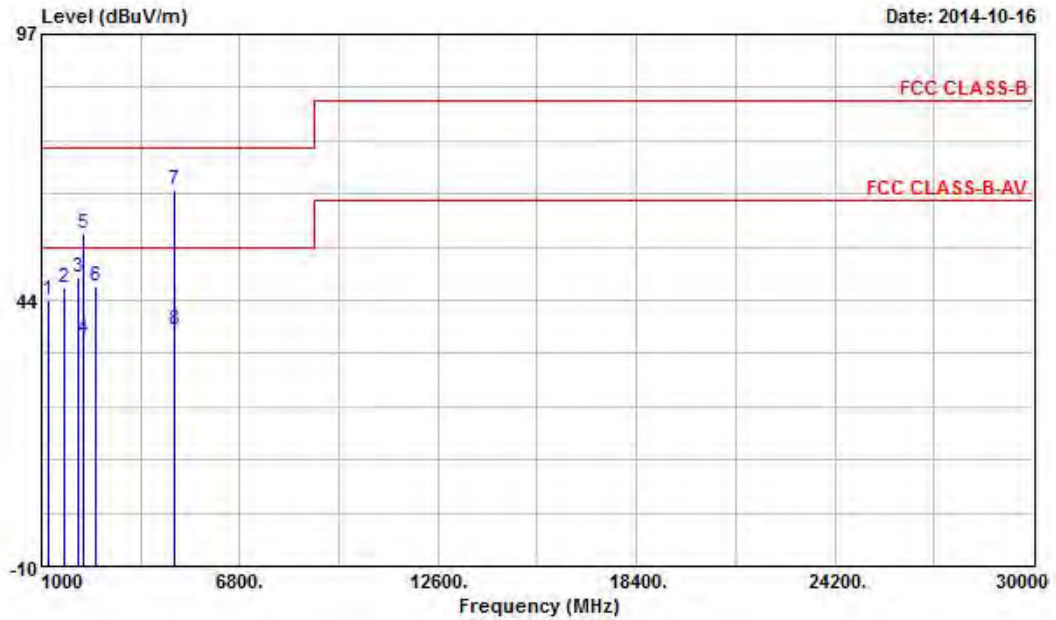
Note: 1. Emission level (dBμV/m) = 20 log Emission level (μV/m)

2. Corrected Reading : Antenna Factor + Cable Loss + Read Level – Preamp Factor = Level

■ The test was passed at the minimum margin that marked by the frame in the following data



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	1292.000	38.20	-35.80	74.00	45.20	25.34	34.10	1.75	---	Peak
2	1444.000	38.65	-35.35	74.00	44.98	25.69	33.87	1.85	---	Peak
3	2100.000	46.05	-27.95	74.00	51.00	26.35	33.61	2.32	---	Peak
4	2260.000	34.54	-19.46	54.00	39.16	26.72	33.76	2.42	100	68 Average
5	2260.000	52.54	-21.46	74.00	57.16	26.72	33.76	2.42	100	68 Peak
6	2622.000	43.39	-30.61	74.00	47.24	27.53	34.07	2.69	---	Peak
7 @	4881.000	72.12	-1.88	74.00	71.68	31.31	34.40	3.53	100	194 Peak
8	4881.000	40.25	-13.75	54.00	39.81	31.31	34.40	3.53	100	194 Average



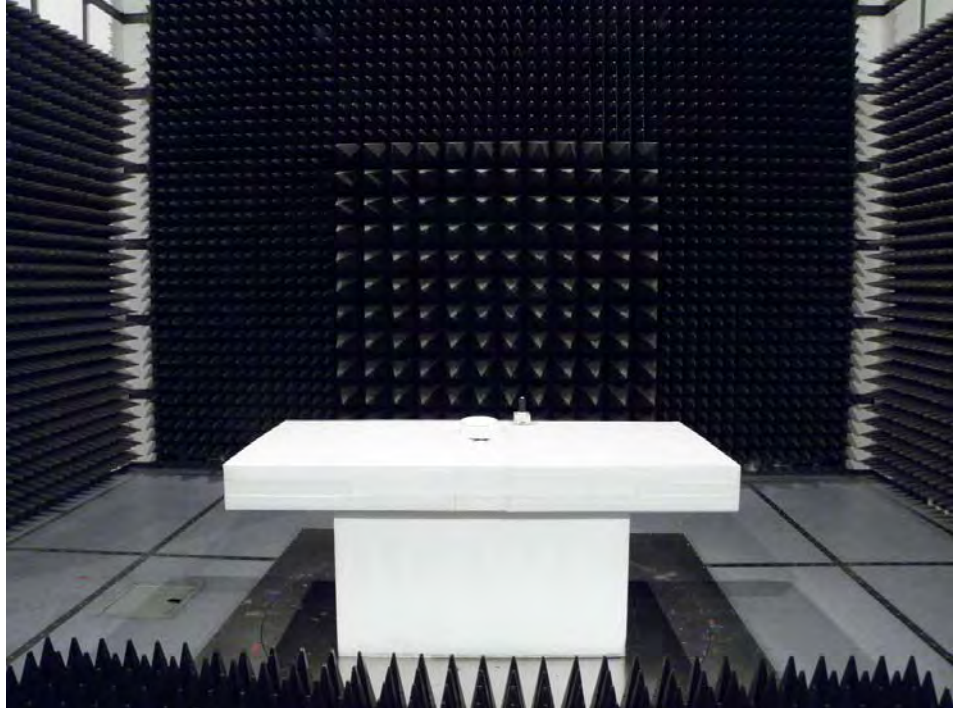
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	1196.000	43.45	-30.55	74.00	50.80	25.16	34.21	1.70	---	Peak
2	1646.000	45.88	-28.12	74.00	51.67	25.89	33.69	2.01	---	Peak
3	2092.000	47.93	-26.07	74.00	52.92	26.31	33.61	2.32	---	Peak
4	2246.000	35.75	-18.25	54.00	40.41	26.68	33.76	2.42	100	68 Average
5	2246.000	56.95	-17.05	74.00	61.61	26.68	33.76	2.42	100	68 Peak
6	2598.000	46.28	-27.72	74.00	50.18	27.50	34.06	2.66	---	Peak
7 @	4881.000	65.62	-8.38	74.00	65.18	31.31	34.40	3.53	100	184 Peak
8	4881.000	37.68	-16.32	54.00	37.24	31.31	34.40	3.53	100	184 Average

6.6 Photographs of Radiated Emission (Above 1GHz) Test Configuration

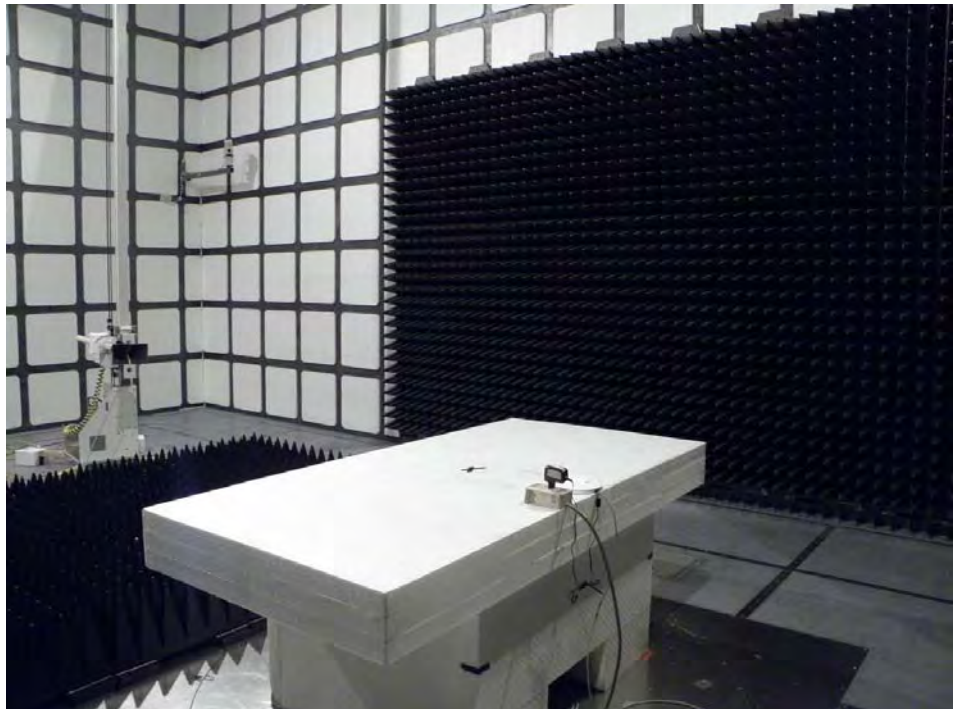
- The photographs show the configuration that generates the maximum emission.

Mode 1

FRONT VIEW



REAR VIEW



7. List of Measuring Equipment Used

< Conducted Emission >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2014	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2014	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	0-76118320200 01	9kHz ~ 30MHz	Oct. 30, 2013	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
50 ohm terminal	N/A	N/A	CON-01-04	N/A	Feb. 25, 2014	Conduction (CO04-HY)

※ Calibration Interval of instruments listed above is one year.

< Radiated Emission below 1GHz >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
10m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-10M	10CH01-HY	30MHz ~ 1GHz 10m/3m	Jun. 09, 2014	Radiation (10CH01-HY)
Spectrum Analyzer	R&S	FSP7	838858/013	9kHz ~ 7GHz	Feb. 18, 2014	Radiation (10CH01-HY)
Receiver	R&S	ESI7	838496/009	20Hz ~ 7GHz	Sep. 17, 2014	Radiation (10CH01-HY)
Amplifier	Agilent	8447D	2944A10825	100kHz ~ 1.3GHz z	Apr. 14, 2014	Radiation (10CH01-HY)
Amplifier	Agilent	8447D	2944A10826	100kHz ~ 1.3GHz	Apr. 08, 2014	Radiation (10CH01-HY)
Biconical Antenna	Schwarz beck	VHBB 9124	286	30MHz ~ 200MHz	Aug. 04, 2014	Radiation (10CH01-HY)
Log Antenna	Schwarz beck	VUSLP 9111	206	200MHz ~ 1GHz	Aug. 04, 2014	Radiation (10CH01-HY)
Turn Table	HD	DT 60 RPS	1513/004/00	0 ~ 360 degree	N/A	Radiation (10CH01-HY)
Antenna Mast	HD	MA240	240/556/00	1 ~ 4 m	N/A	Radiation (10CH01-HY)
Antenna Mast	HD	MA240	240/559/00	1 ~ 4 m	N/A	Radiation (10CH01-HY)
RF Cable-R10m	BELDEN	RG8/U	CB023-INSIDE	30MHz ~ 1GHz	Nov. 14, 2013	Radiation (10CH01-HY)
RF Cable-R10m	Suhner Switzerland + Rosenberger	RG223/U + UAA220A-0	CB022-DOOR	30MHz ~ 1GHz	Nov. 14, 2013	Radiation (10CH01-HY)

※ Calibration Interval of instruments listed above is one year.

< Radiated Emission above 1GHz >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Radiation (03CH04-HY)
Amplifier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	May 22, 2014	Radiation (03CH04-HY)
Horn Antenna	SCHWARZBECK	BBHA9120	BBHA9120D1130	1GHz ~ 18GHz	Sep.16, 2014	Radiation (03CH04-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170339	15GHz ~ 40GHz	Feb. 17, 2014	Radiation (03CH04-HY)
Turn Table	Chaintek	3000	MF7802056	0 ~ 360 degree	NCR	Radiation (03CH04-HY)
Antenna Mast	MF	MF-7802	MF780208163	1 m ~ 4 m	NCR	Radiation (03CH04-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	CB063-HF	1GHz ~ 40GHz	Nov. 20, 2013	Radiation (03CH04-HY)

※ Calibration Interval of instruments listed above is one year.

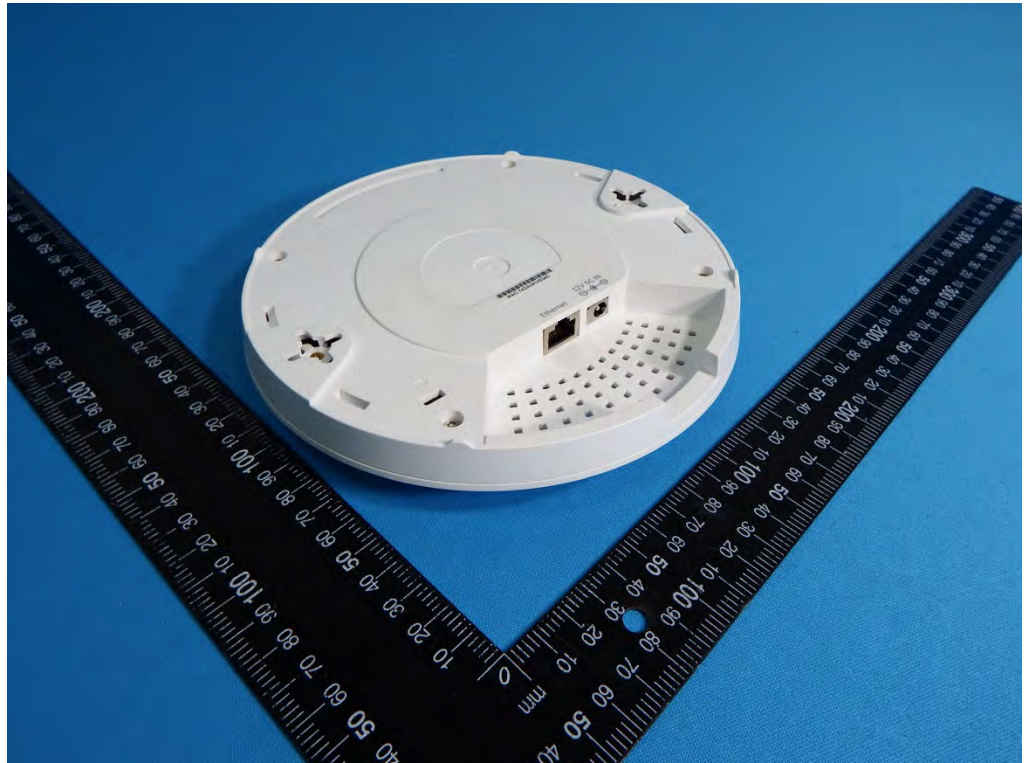
※ NCR: No calibration request.

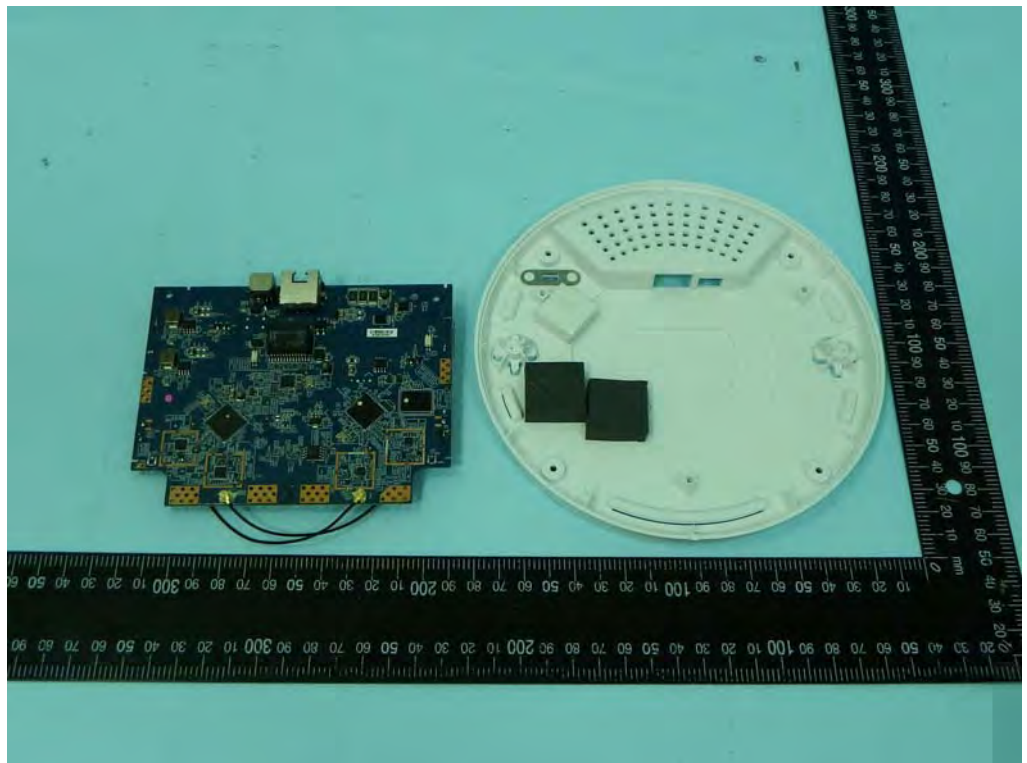
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	EM	EM18G40G	060572	18GHz ~ 40GHz	Jun. 20, 2013	Radiation (03CH04-HY)

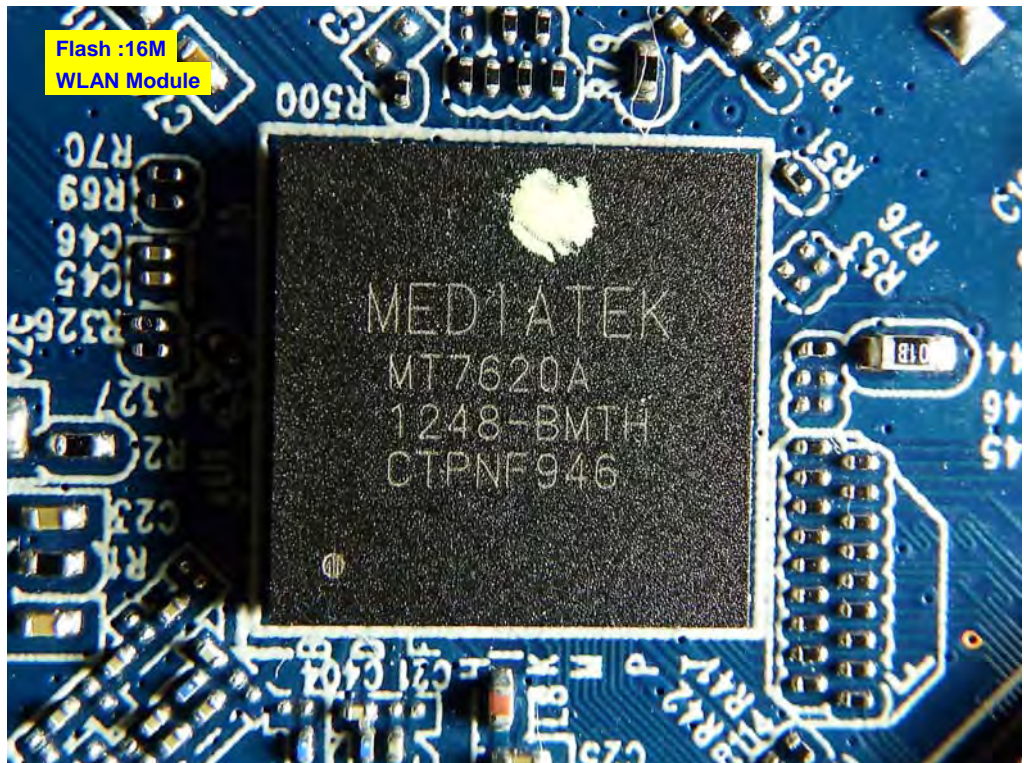
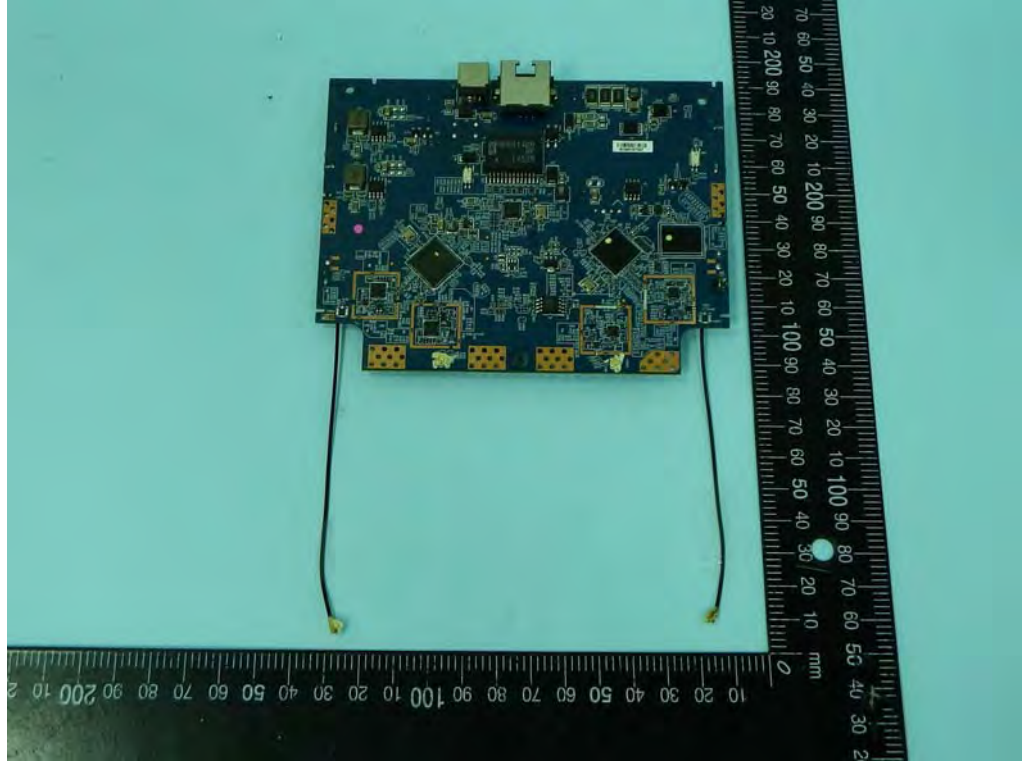
※ Calibration Interval of instruments listed above is two years.

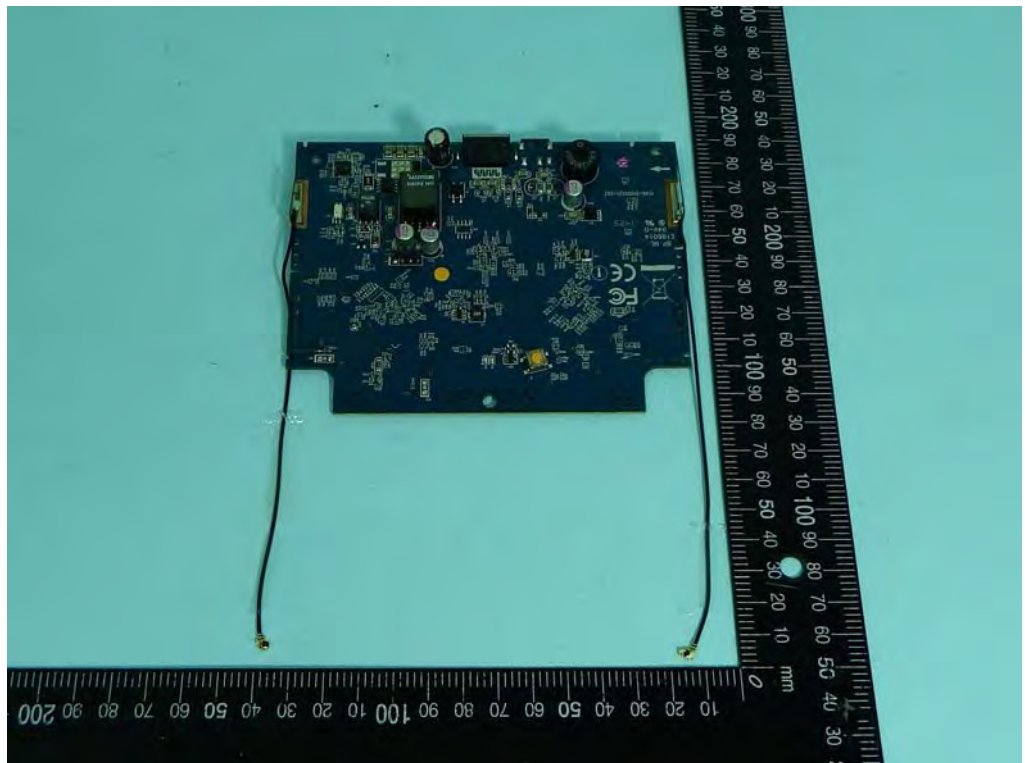
APPENDIX A. Photographs of EUT

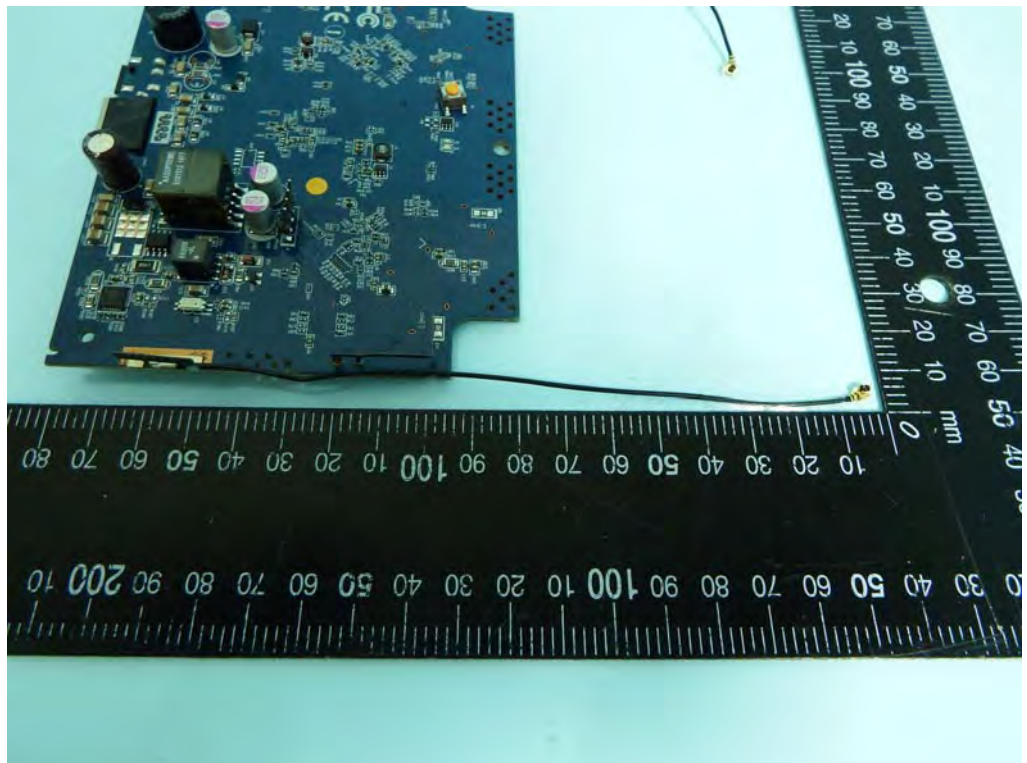
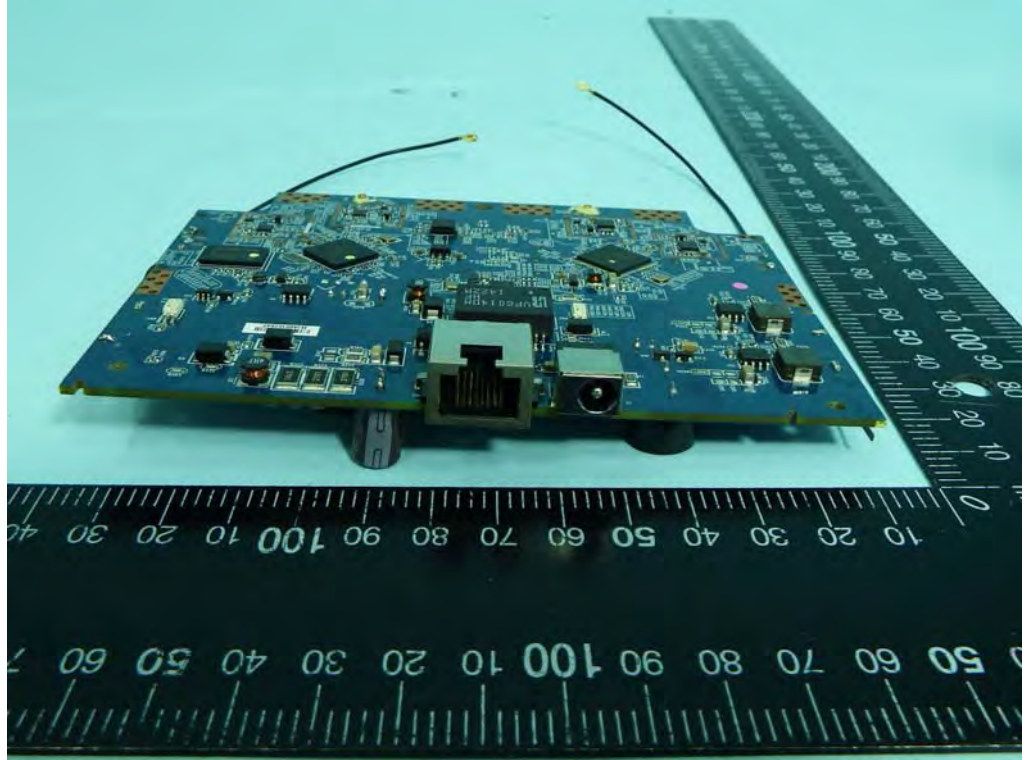


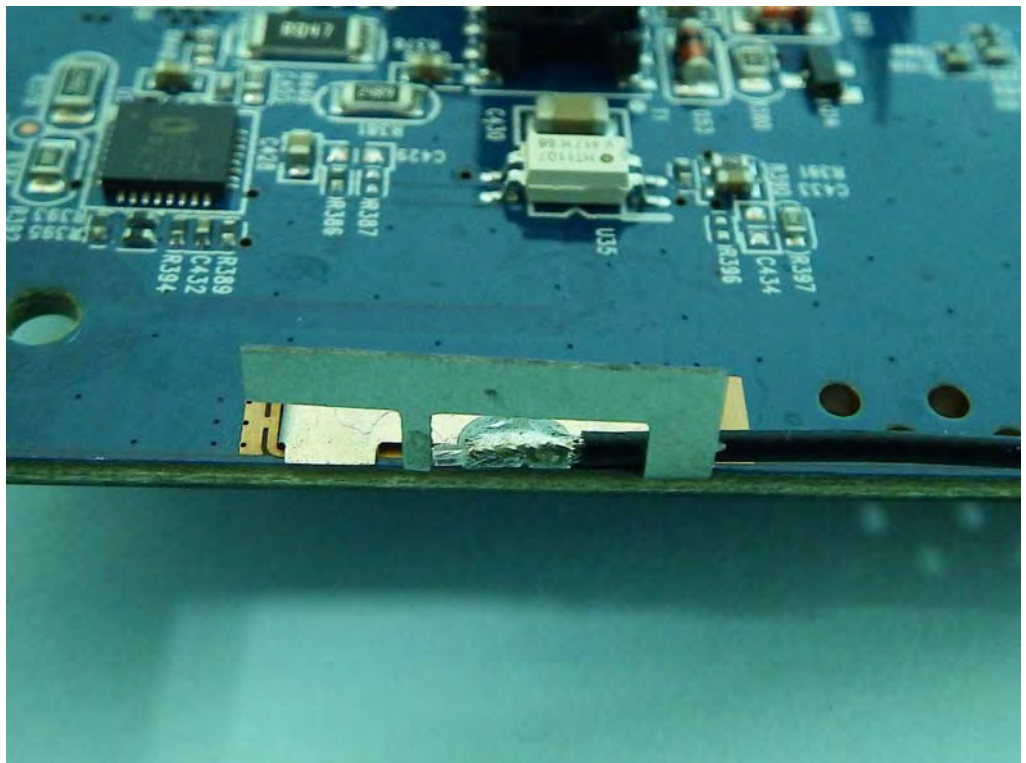


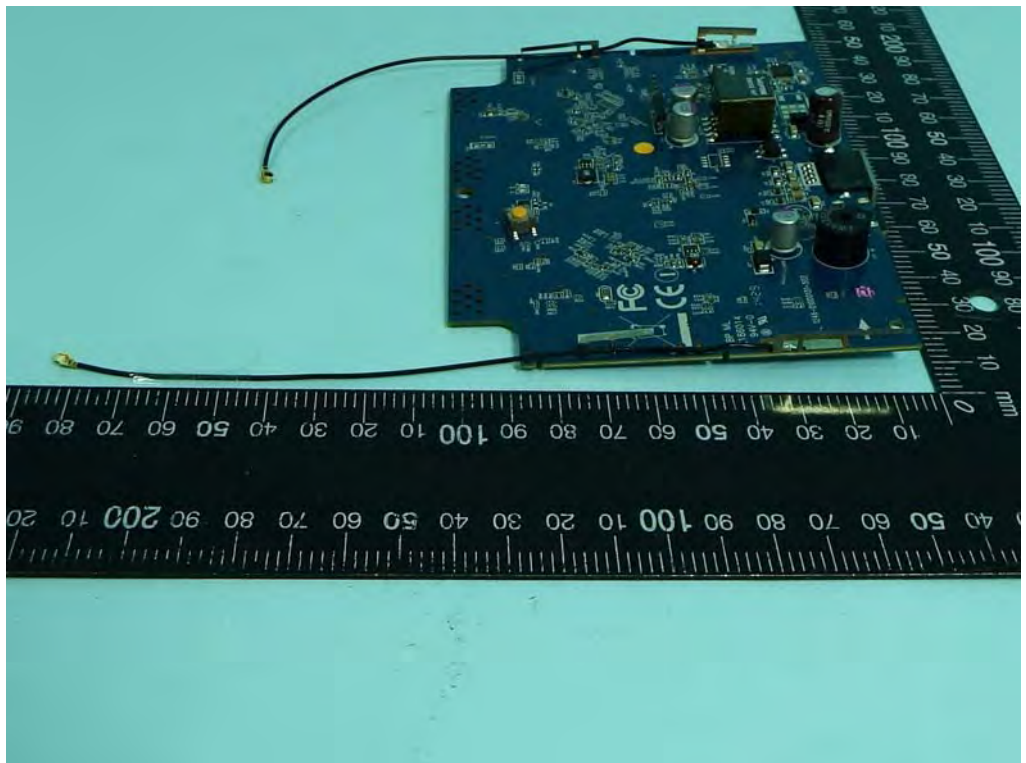
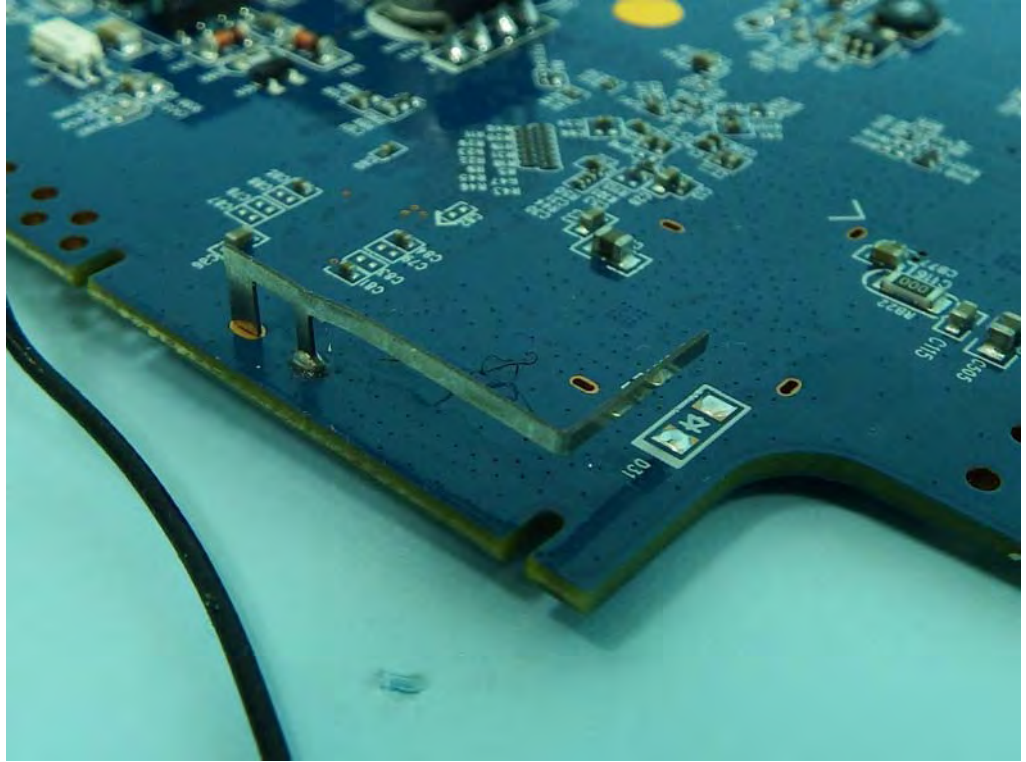


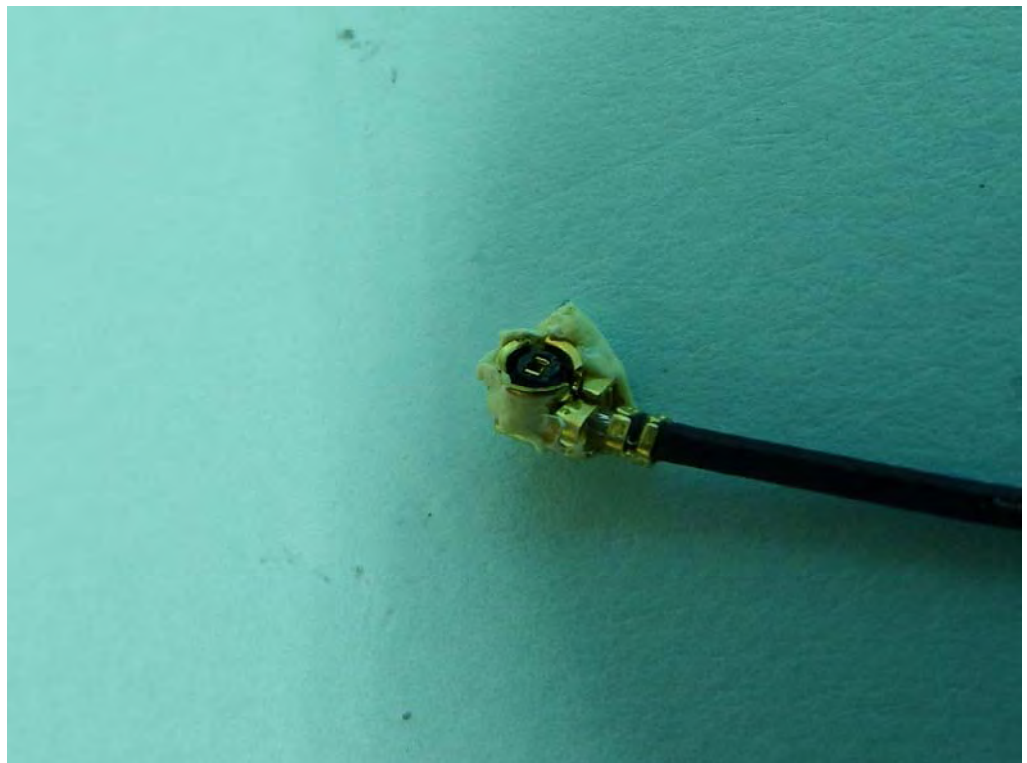
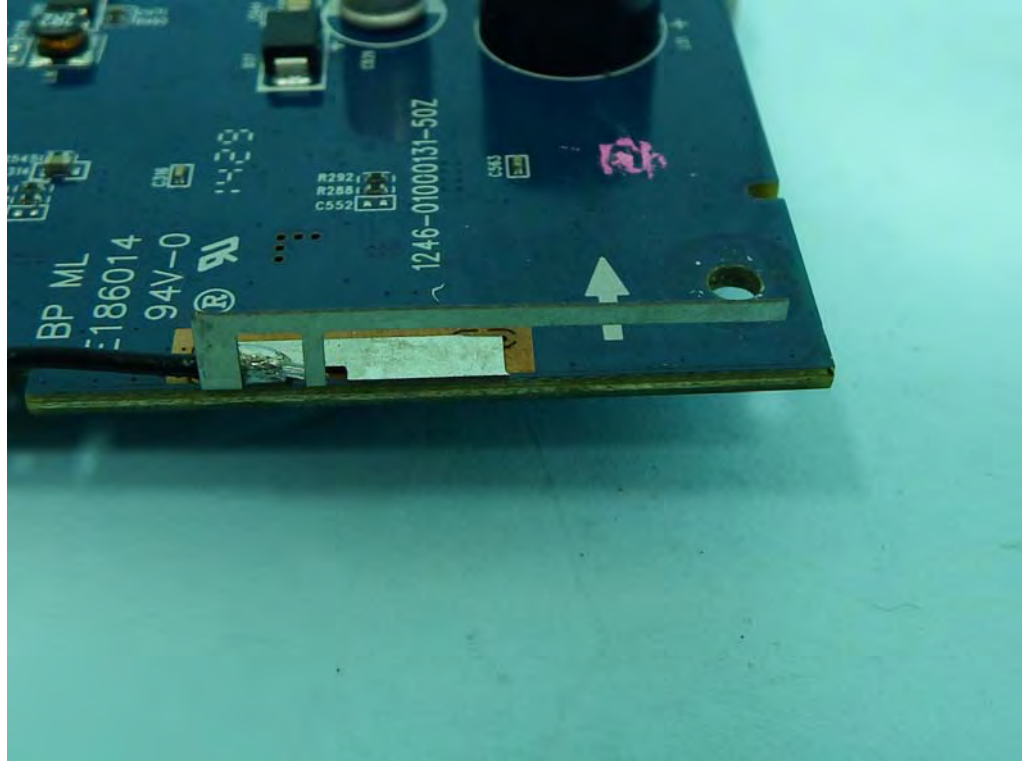


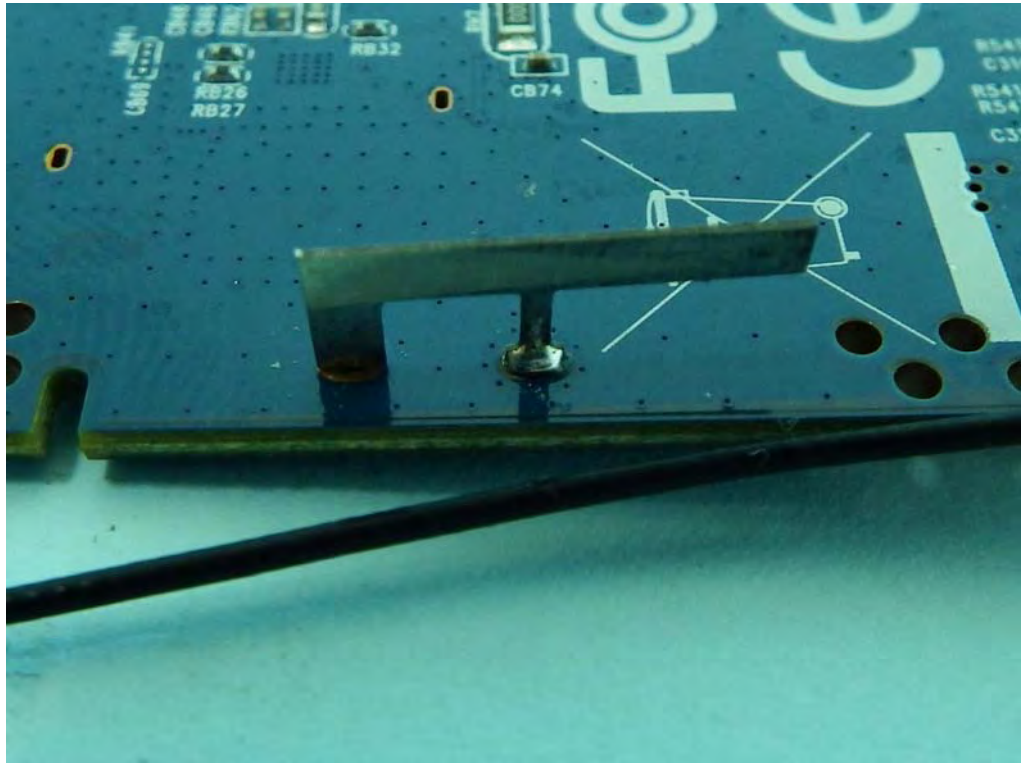


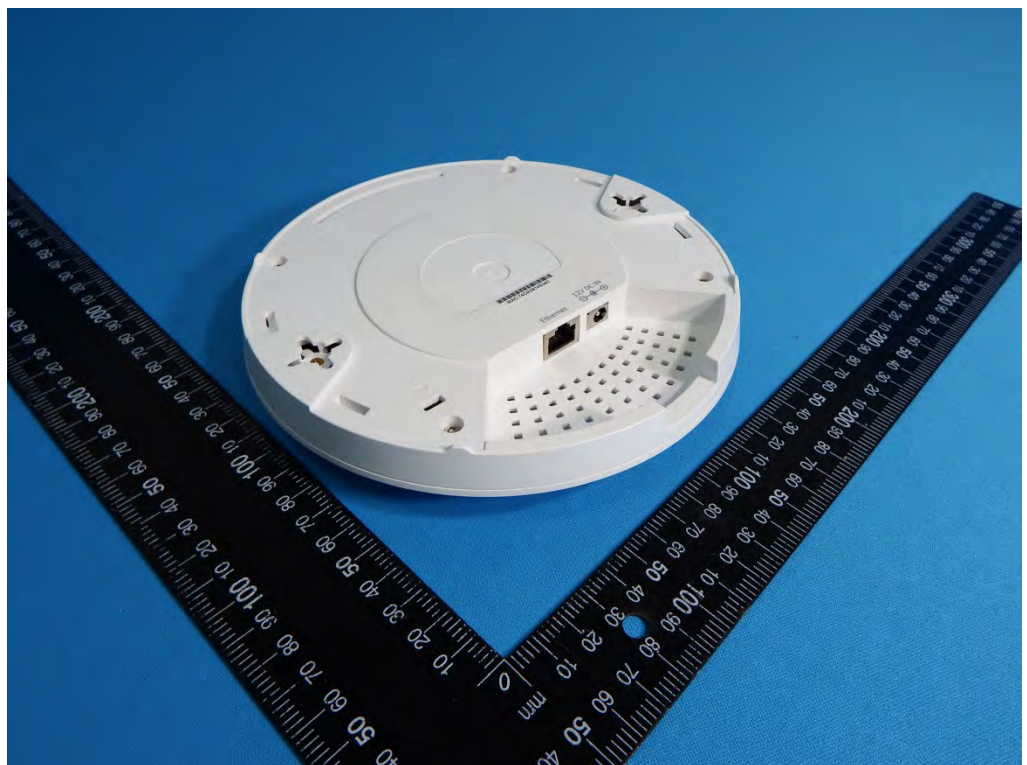


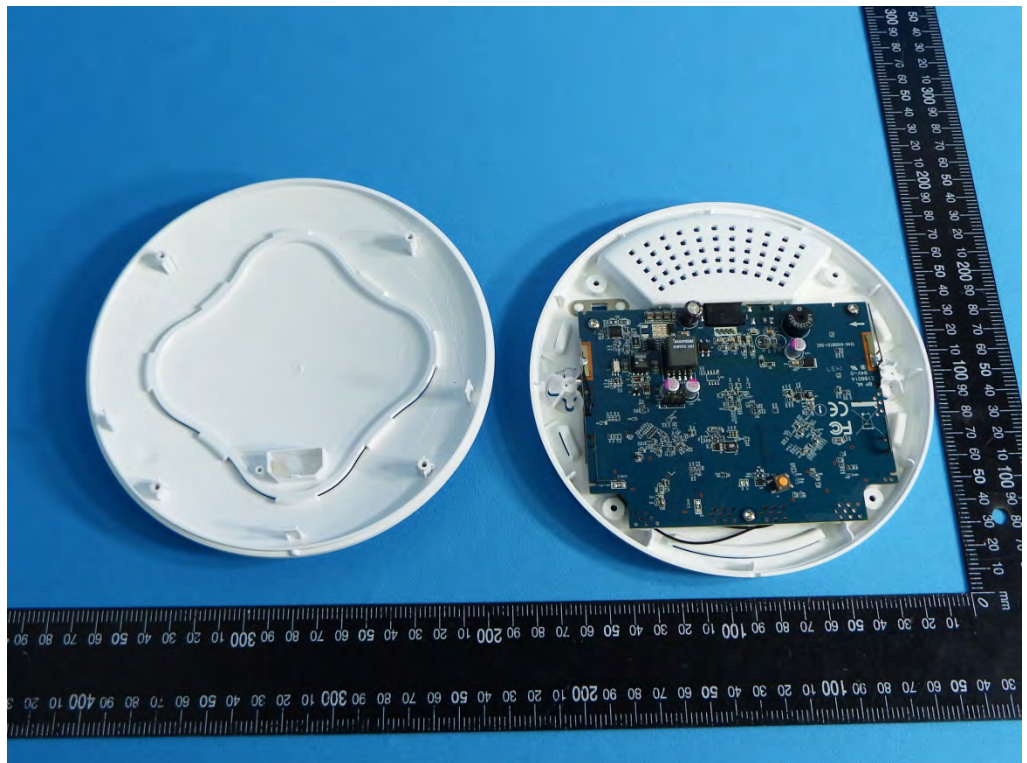


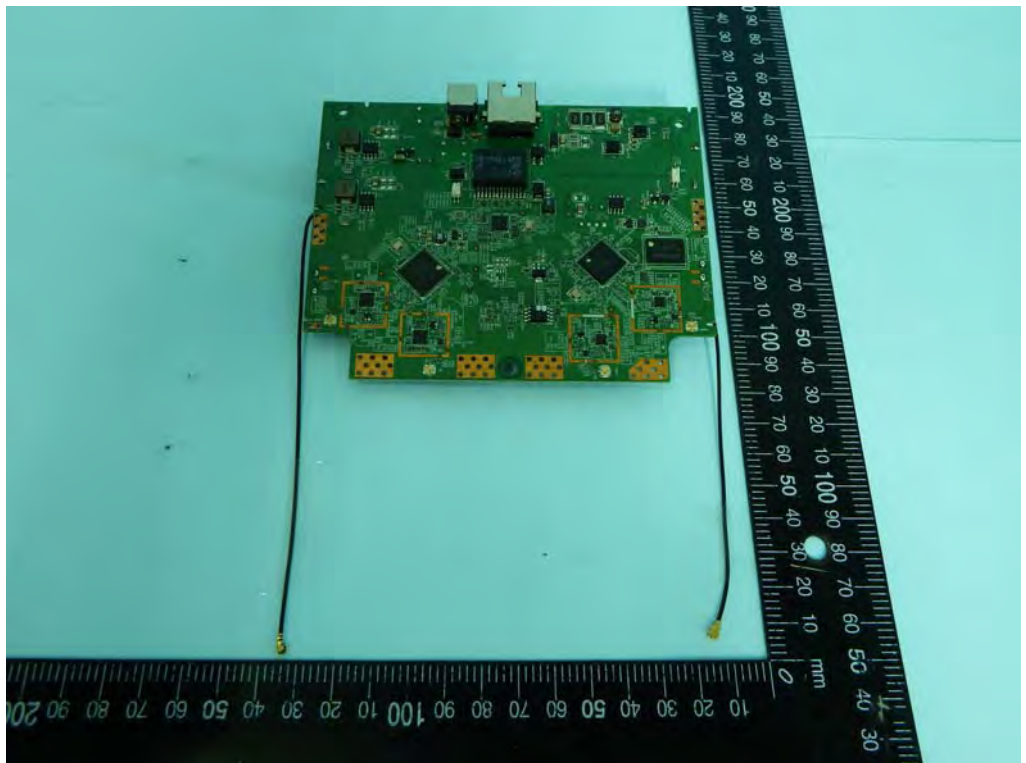
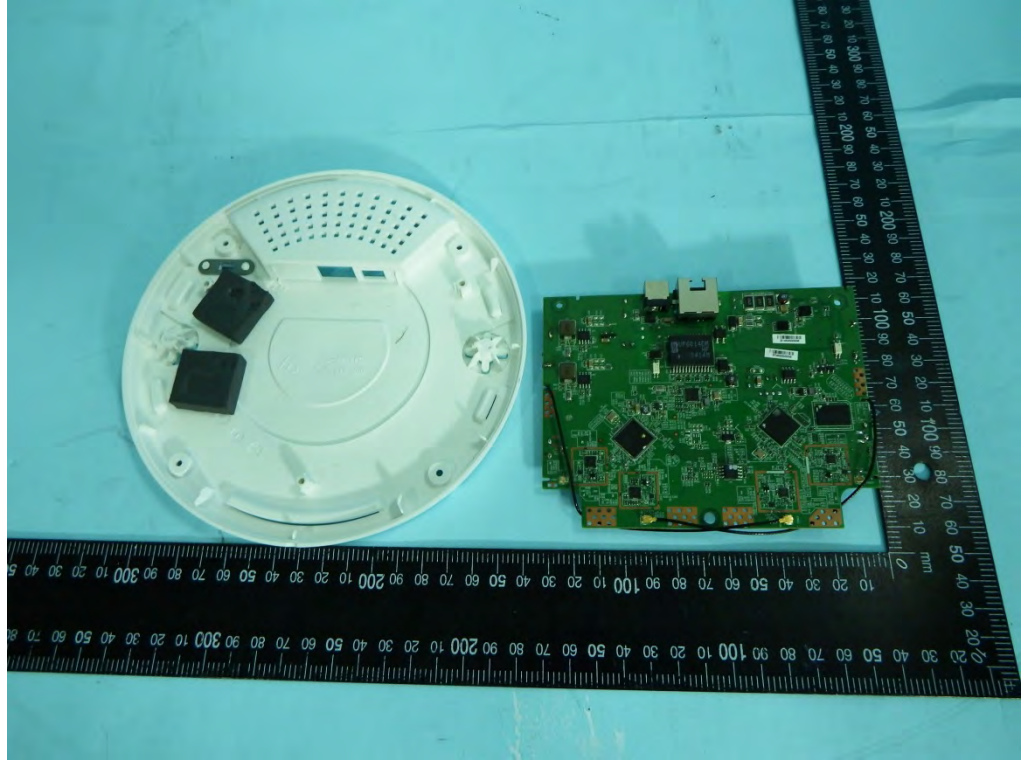


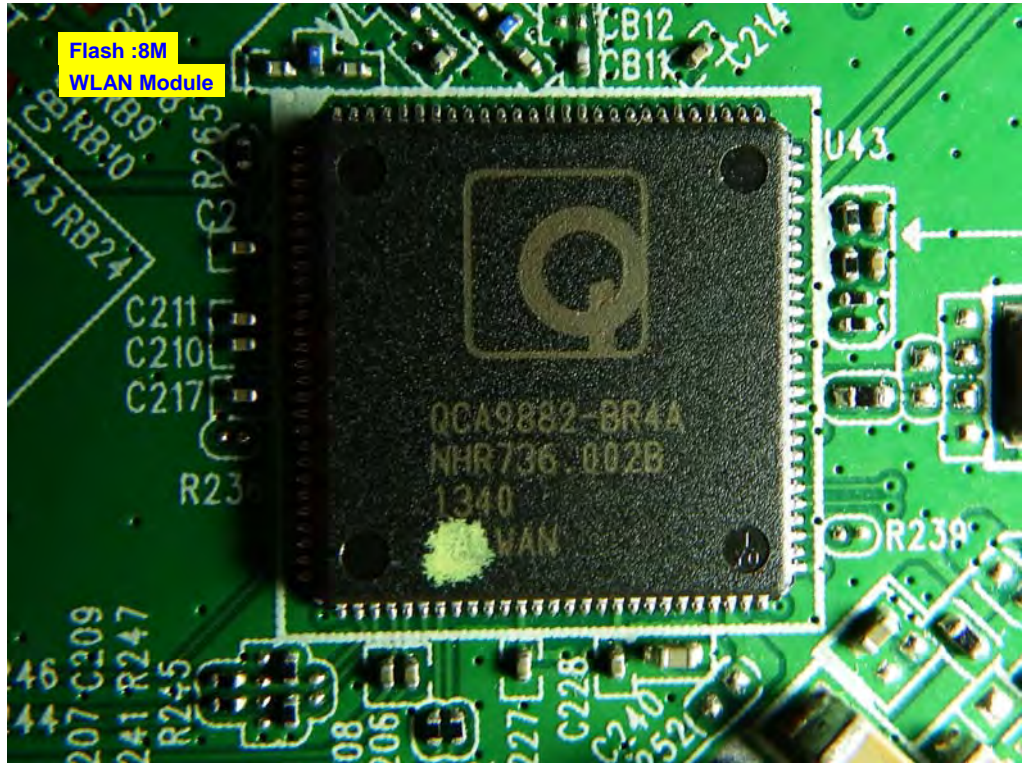


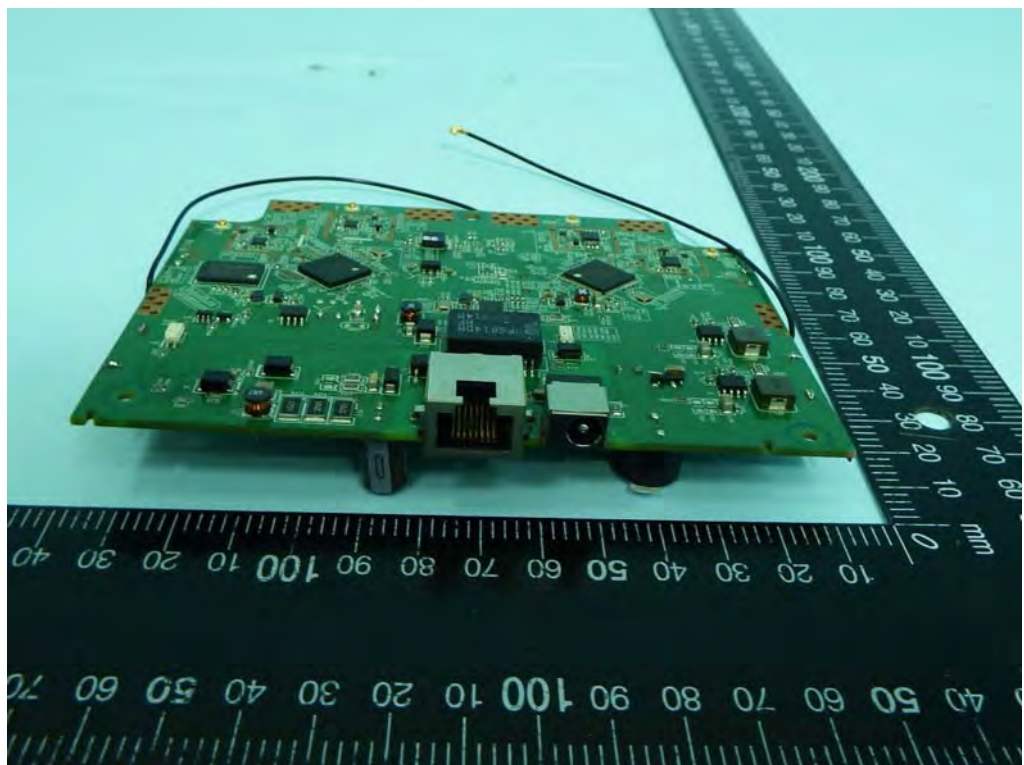
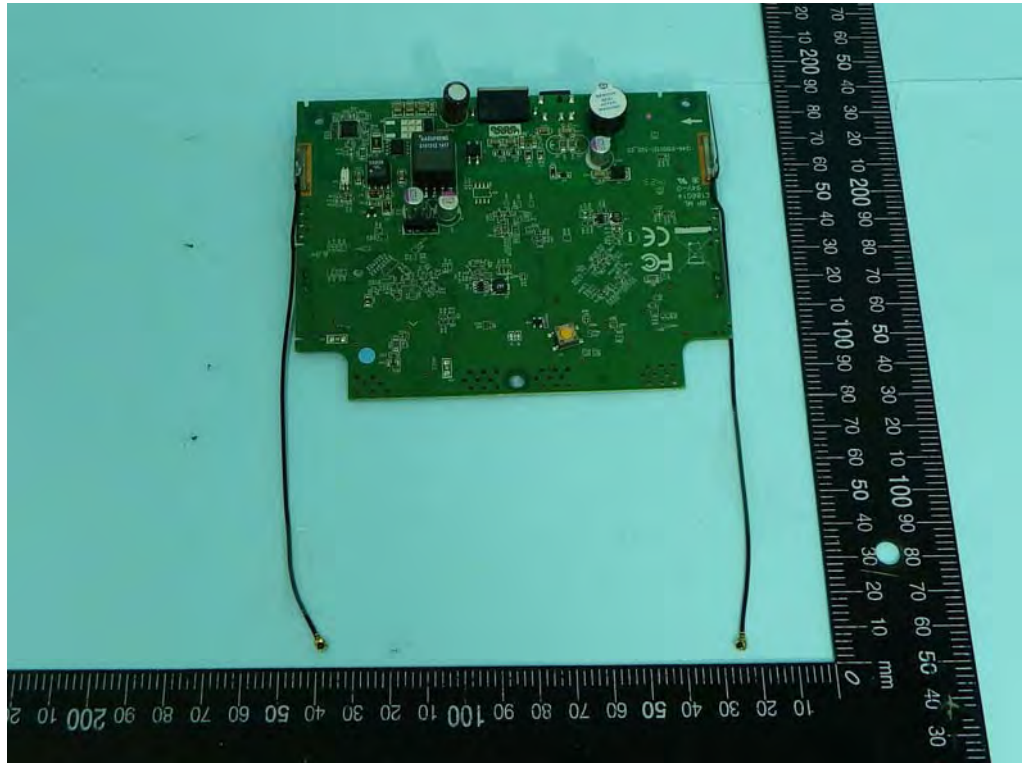


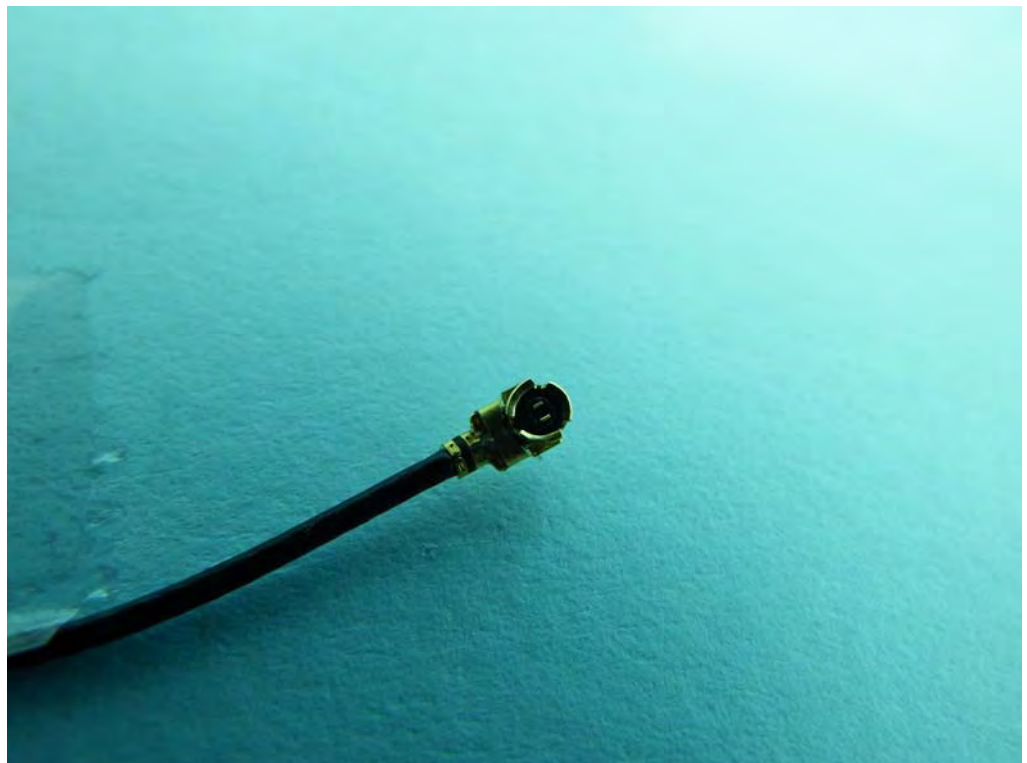
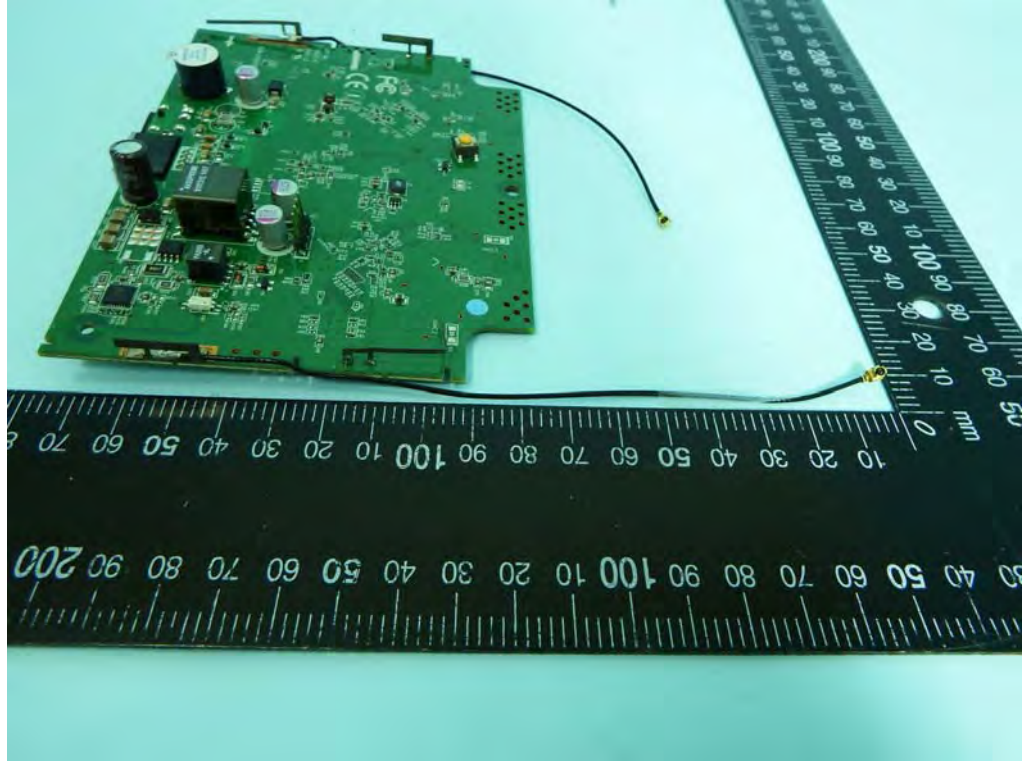


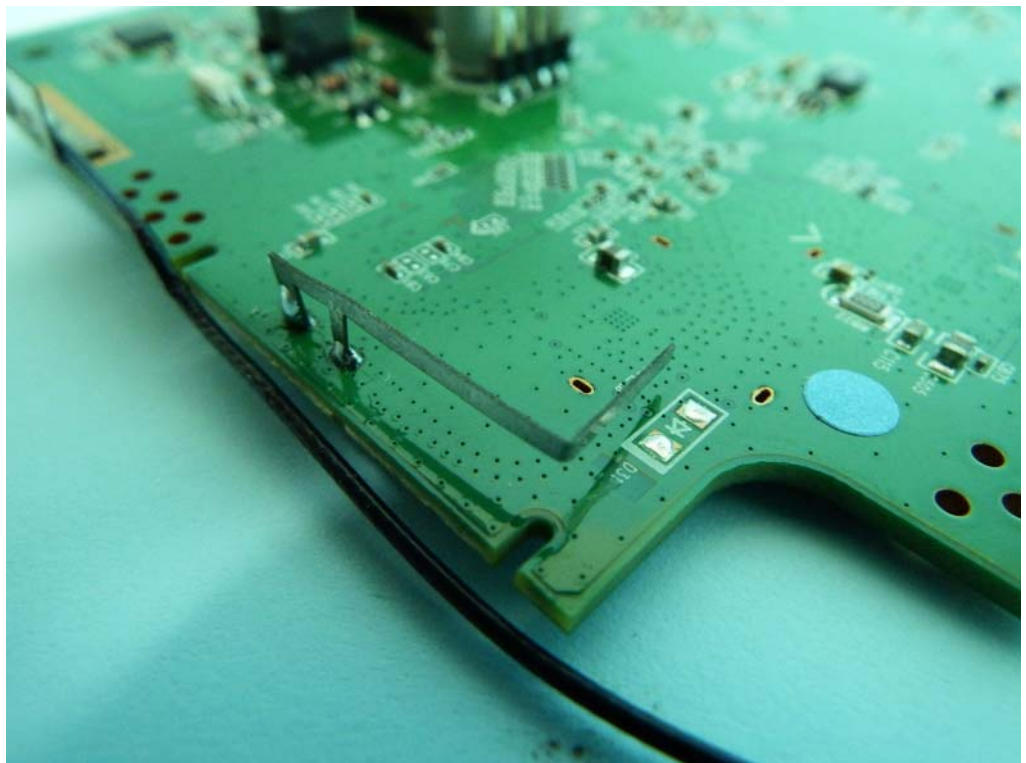


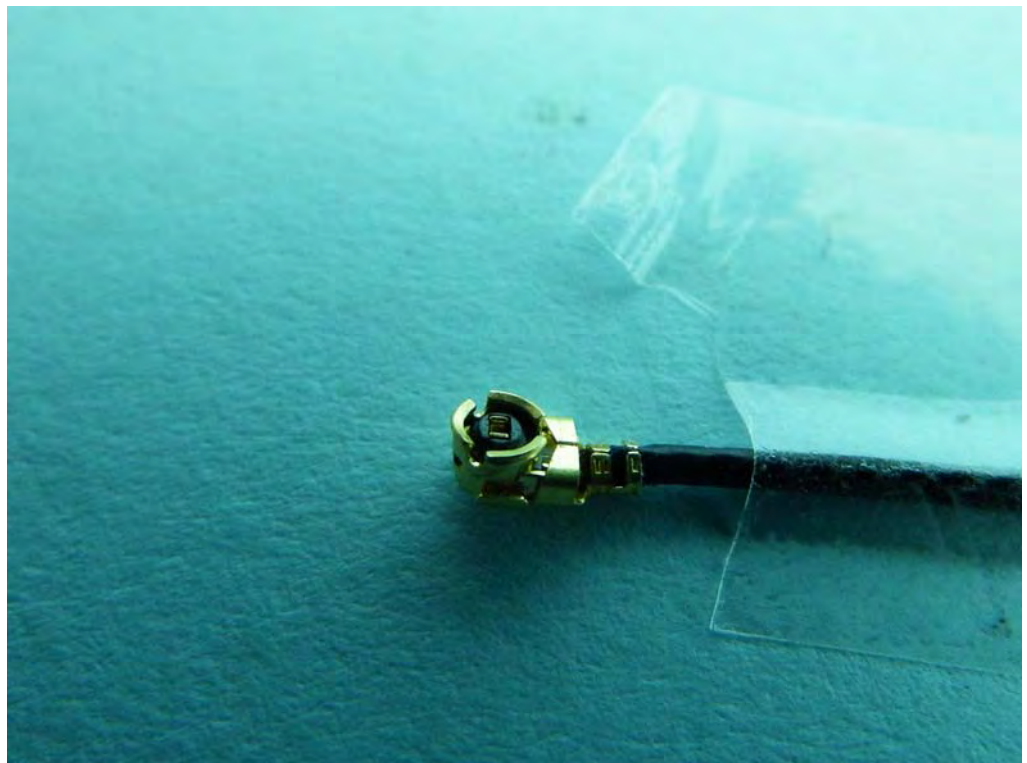
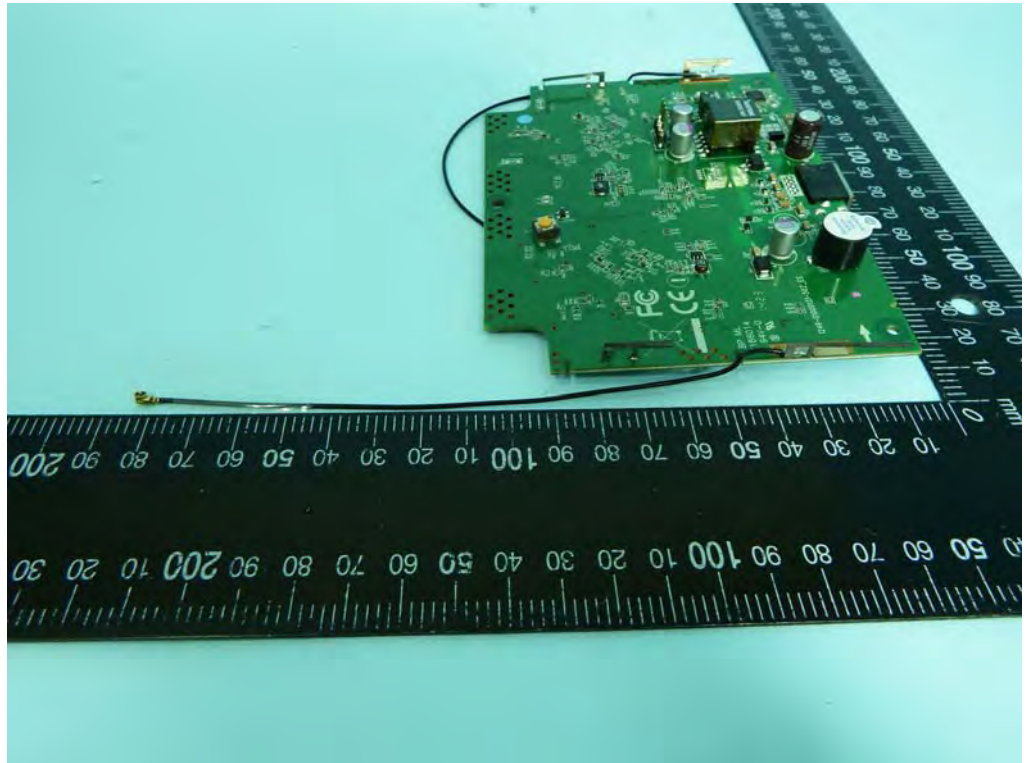


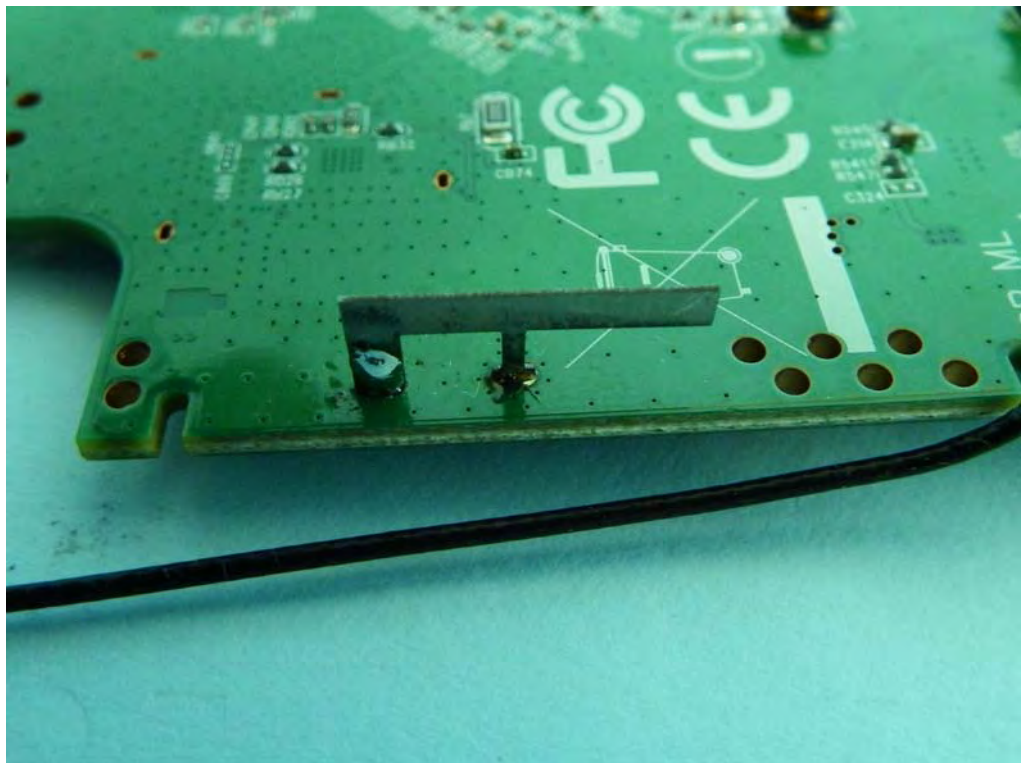
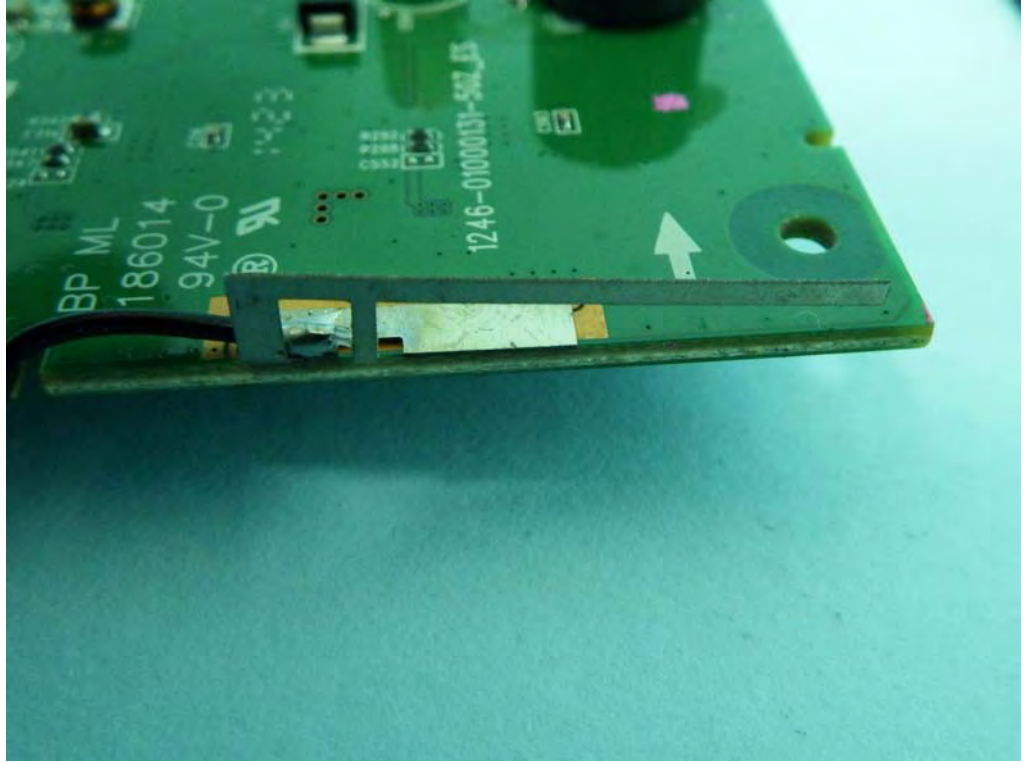
















APPENDIX B. Photographs of EUT



