

FCC EMI TEST REPORT

REPORT NO. : FC681301-02
MODEL NO. : EM-S, EM-EP
RECEIVED DATE : Sep. 10, 2016
FINAL TESTED DATE : Nov. 07, 2016
ISSUED DATE : Nov. 17, 2016

TEST STANDARD : 47 CFR 15.113
FCC 11-160
Canada Standard ICES-006, Issue 2
IC RSS-247 Issue 1 (May 2015) and RSS-Gen Issue 4

FCC ID : SWX-EMS
IC ID : 6545A-EMS

APPLICANT : Ubiquiti Networks, Inc.
ADDRESS : 2580 Orchard Parkway San Jose, CA 95131

Manufacturer : Ubiquiti Networks, Inc.
ADDRESS : 2580 Orchard Parkway San Jose CA USA

ISSUED BY : SPORTON International Inc.
LAB ADDRESS : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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Table of Contents

VERIFICATION OF COMPLIANCE1

1. Summary of Test Results2

2. General Description of Equipment under Test.....3

3. Test Configuration of Equipment under Test4

4. General Information of Test.....10

5. Test of Conducted Emission11

6. Test of Radiated Emission.....16

7. List of Measuring Equipment Used37

8. Uncertainty of Test Site38

Appendix A. TEST PHOTOS A1 ~ A4

History of This Test Report

REPORT NO.	VERSION	ISSUED DATE	Description
FC681301-02	Rev. 01	Nov. 17, 2016	Initial issue of report

VERIFICATION OF COMPLIANCE

EQUIPMENT NAME : EtherMagic Powerline

BRAND NAME : UBIQUITI

MODEL NO. : EM-S, EM-EP

APPLICANT : Ubiquiti Networks, Inc.

ADDRESS : 2580 Orchard Parkway San Jose, CA 95131

FINAL TESTED DATE : Nov. 07, 2016

TEST STANDARD : 47 CFR 15.113

FCC 11-160

Canada Standard ICES-006, Issue 2

IC RSS-247 Issue 1 (May 2015) and RSS-Gen Issue 4

I HEREBY DECLARE THAT:

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2014 and CFR FCC Part15 Subpart B**.

The above equipment has been tested by **SPORTON International Inc. LAB.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMI characteristics under the conditions specified in this report.



Beck Wu

SPORTON INTERNATIONAL INC.

1. Summary of Test Results

After estimating all the combination of every test mode, the result shown as below is the worst case.

The EUT has been tested according to the following specifications.

Applicable Standard: CFR FCC Part15 Subpart B, Canada Standard ICES-006, Issue 2 and IC RSS-247 Issue 1 (May 2015) and RSS-Gen Issue 4				
FCC Test Standard	IC Test Standard	Test Type	Result	Remarks
15.107(c)(2)	5.2.2	AC Power Port Conducted emission test 0.535 MHz to 1.705 MHz	PASS	Meet minimum passing margin is -10.06dB at 1.5166MHz.
15.107(c)(3) 15.109(e) 15.113(e)	5.3	Radiated emission test 9 kHz to 1,000 MHz	PASS	Meet the requirements.

2. General Description of Equipment under Test

Product Detail	
Equipment Name	EtherMagic Powerline
Model No.	EM-S, EM-EP
Brand Name	UBIQUITI
Power Supply	AC Utility Power

2.1. Feature of Equipment under Test

- 1. The EUT has two model names which are identical to each other in all aspects except for the following table:

Brand Name	Model Name	Color
UBIQUITI	EM-S	Black
	EM-EP	White

From the above models, model: EM-EP was selected as representative model for the test and its data was recorded in this report..

- 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3. Test Configuration of Equipment under Test

3.1. Test Mode

The following table is a list of the test modes shown in this test report.

All test items	
Test Mode	Description
1	Normal Link (with data transmit)

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Unit	Brand	Model	FCC ID
NB*2	DELL	E6430	DoC
Device	EtherMagic Powerline	EM-EP	SWX-EMS

3.3. EUT Operation Condition

During the test, the following programs under WIN 7 were executed:

The remote notebooks executed "ping.exe" to link with the EUT and the device to maintain the connection by LAN.

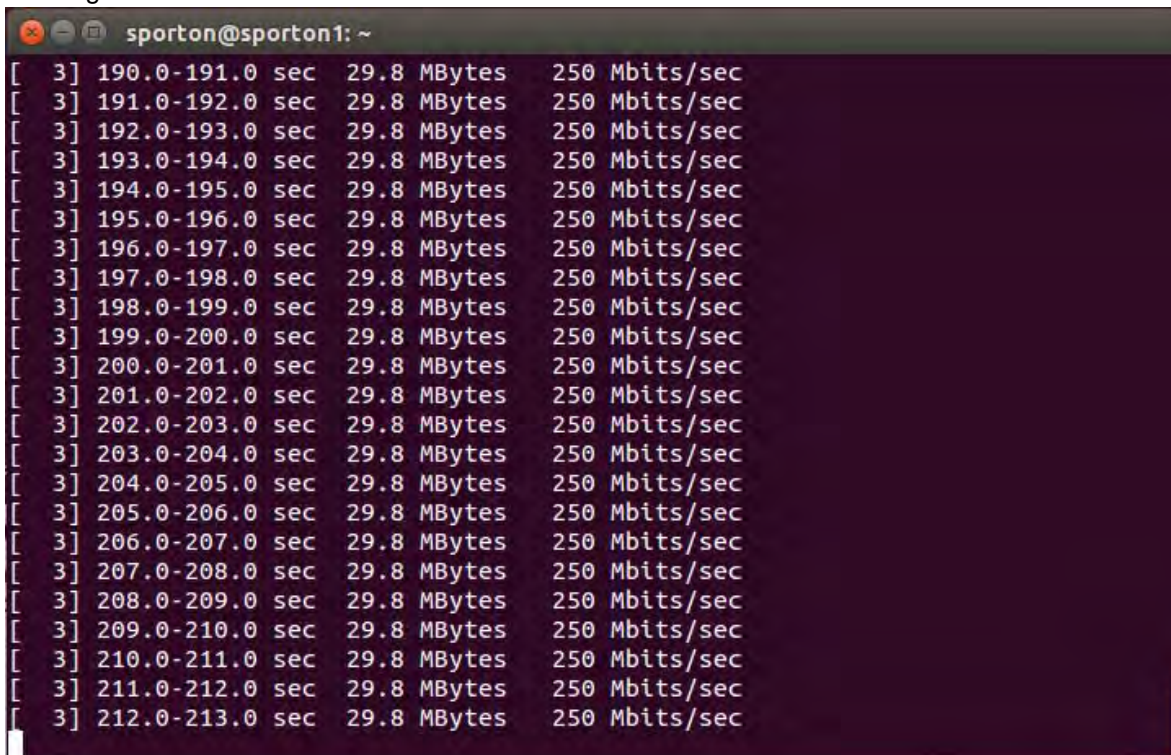
The remote notebook executed "iperf" to link with the EUT to traffic packet data generated software and keep maximum traffic load by LAN.

The mobile phone executed "Beta" to make BT connection between EUT and Device. The mobile phone was removed when the connection was made

The EUT and the device were connected through power network.

Traffic for Radiated Emissions only

Building 1



A terminal window titled 'sporton@sporton1: ~' displays a list of traffic data for radiated emissions. Each line represents a 3-second interval, showing a constant data rate of 29.8 MBytes/sec and 250 Mbits/sec. The frequency ranges from 190.0-191.0 MHz to 212.0-213.0 MHz.

Frequency Range (MHz)	Duration (sec)	Data Rate (MBytes/sec)	Data Rate (Mbits/sec)
190.0-191.0	3	29.8	250
191.0-192.0	3	29.8	250
192.0-193.0	3	29.8	250
193.0-194.0	3	29.8	250
194.0-195.0	3	29.8	250
195.0-196.0	3	29.8	250
196.0-197.0	3	29.8	250
197.0-198.0	3	29.8	250
198.0-199.0	3	29.8	250
199.0-200.0	3	29.8	250
200.0-201.0	3	29.8	250
201.0-202.0	3	29.8	250
202.0-203.0	3	29.8	250
203.0-204.0	3	29.8	250
204.0-205.0	3	29.8	250
205.0-206.0	3	29.8	250
206.0-207.0	3	29.8	250
207.0-208.0	3	29.8	250
208.0-209.0	3	29.8	250
209.0-210.0	3	29.8	250
210.0-211.0	3	29.8	250
211.0-212.0	3	29.8	250
212.0-213.0	3	29.8	250

Building 2

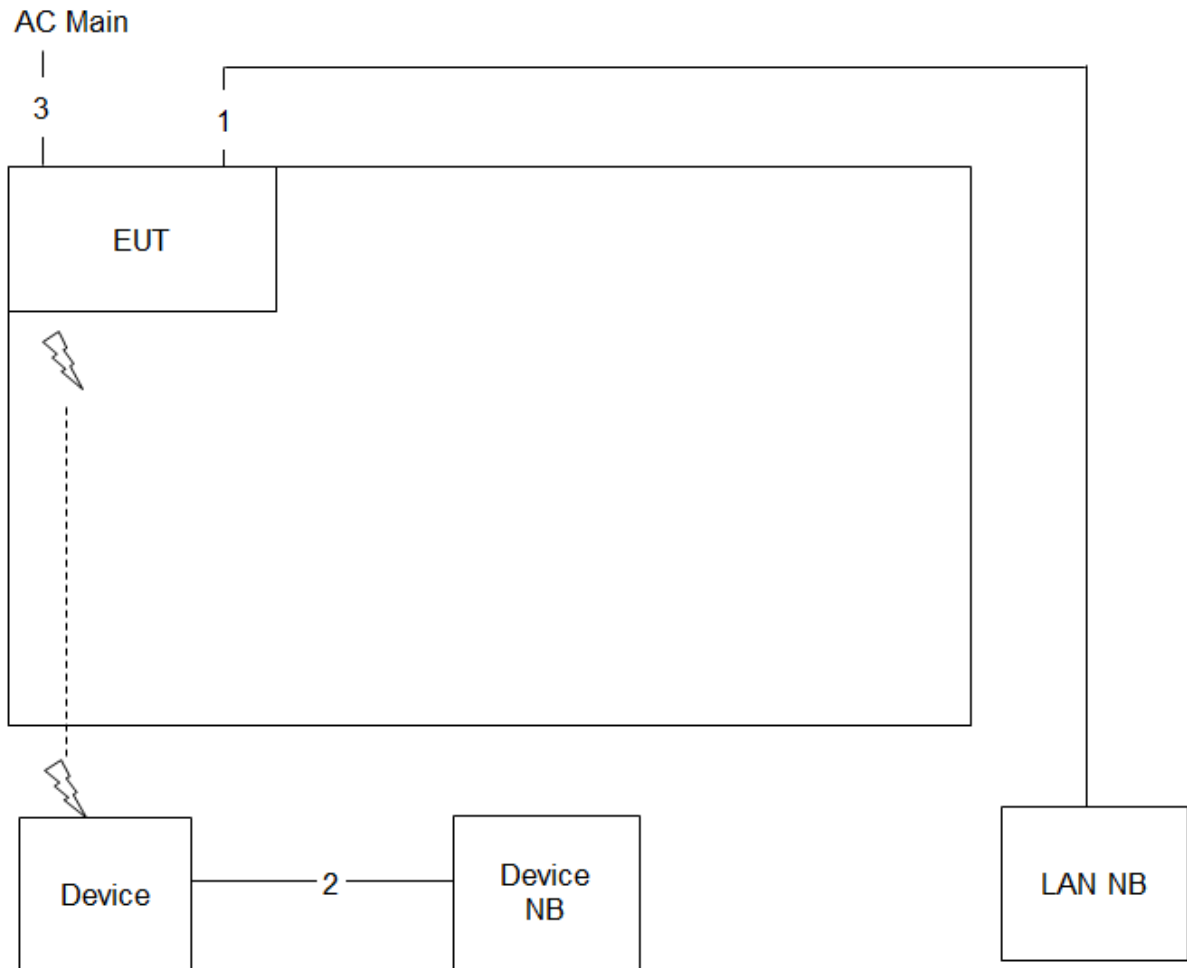
```
sporton@sporton1: ~
[ 3] 106.0-107.0 sec 29.8 MBytes 250 Mb/s
[ 3] 107.0-108.0 sec 29.8 MBytes 250 Mb/s
[ 3] 108.0-109.0 sec 29.8 MBytes 250 Mb/s
[ 3] 109.0-110.0 sec 29.8 MBytes 250 Mb/s
[ 3] 110.0-111.0 sec 29.8 MBytes 250 Mb/s
[ 3] 111.0-112.0 sec 29.8 MBytes 250 Mb/s
[ 3] 112.0-113.0 sec 29.8 MBytes 250 Mb/s
[ 3] 113.0-114.0 sec 29.8 MBytes 250 Mb/s
[ 3] 114.0-115.0 sec 29.8 MBytes 250 Mb/s
[ 3] 115.0-116.0 sec 29.8 MBytes 250 Mb/s
[ 3] 116.0-117.0 sec 29.8 MBytes 250 Mb/s
[ 3] 117.0-118.0 sec 29.8 MBytes 250 Mb/s
[ 3] 118.0-119.0 sec 29.8 MBytes 250 Mb/s
[ 3] 119.0-120.0 sec 29.8 MBytes 250 Mb/s
[ 3] 120.0-121.0 sec 29.8 MBytes 250 Mb/s
[ 3] 121.0-122.0 sec 29.8 MBytes 250 Mb/s
[ 3] 122.0-123.0 sec 29.8 MBytes 250 Mb/s
[ 3] 123.0-124.0 sec 29.8 MBytes 250 Mb/s
[ 3] 124.0-125.0 sec 29.8 MBytes 250 Mb/s
[ 3] 125.0-126.0 sec 29.8 MBytes 250 Mb/s
[ 3] 126.0-127.0 sec 29.8 MBytes 250 Mb/s
[ 3] 127.0-128.0 sec 29.8 MBytes 250 Mb/s
[ 3] 128.0-129.0 sec 29.8 MBytes 250 Mb/s
```

Building 3

```
sporton@sporton1: ~
[ 3] 129.0-130.0 sec 29.8 MBytes 250 Mb/s
[ 3] 130.0-131.0 sec 29.8 MBytes 250 Mb/s
[ 3] 131.0-132.0 sec 29.8 MBytes 250 Mb/s
[ 3] 132.0-133.0 sec 29.8 MBytes 250 Mb/s
[ 3] 133.0-134.0 sec 29.8 MBytes 250 Mb/s
[ 3] 134.0-135.0 sec 29.8 MBytes 250 Mb/s
[ 3] 135.0-136.0 sec 29.8 MBytes 250 Mb/s
[ 3] 136.0-137.0 sec 29.8 MBytes 250 Mb/s
[ 3] 137.0-138.0 sec 29.8 MBytes 250 Mb/s
[ 3] 138.0-139.0 sec 29.8 MBytes 250 Mb/s
[ 3] 139.0-140.0 sec 29.8 MBytes 250 Mb/s
[ 3] 140.0-141.0 sec 29.8 MBytes 250 Mb/s
[ 3] 141.0-142.0 sec 29.8 MBytes 250 Mb/s
[ 3] 142.0-143.0 sec 29.8 MBytes 250 Mb/s
[ 3] 143.0-144.0 sec 29.8 MBytes 250 Mb/s
[ 3] 144.0-145.0 sec 29.8 MBytes 250 Mb/s
[ 3] 145.0-146.0 sec 29.8 MBytes 250 Mb/s
[ 3] 146.0-147.0 sec 29.8 MBytes 250 Mb/s
[ 3] 147.0-148.0 sec 29.8 MBytes 250 Mb/s
[ 3] 148.0-149.0 sec 29.8 MBytes 250 Mb/s
[ 3] 149.0-150.0 sec 29.8 MBytes 250 Mb/s
[ 3] 150.0-151.0 sec 29.8 MBytes 250 Mb/s
[ 3] 151.0-152.0 sec 29.8 MBytes 250 Mb/s
```

3.4. Connection Diagram of Test System

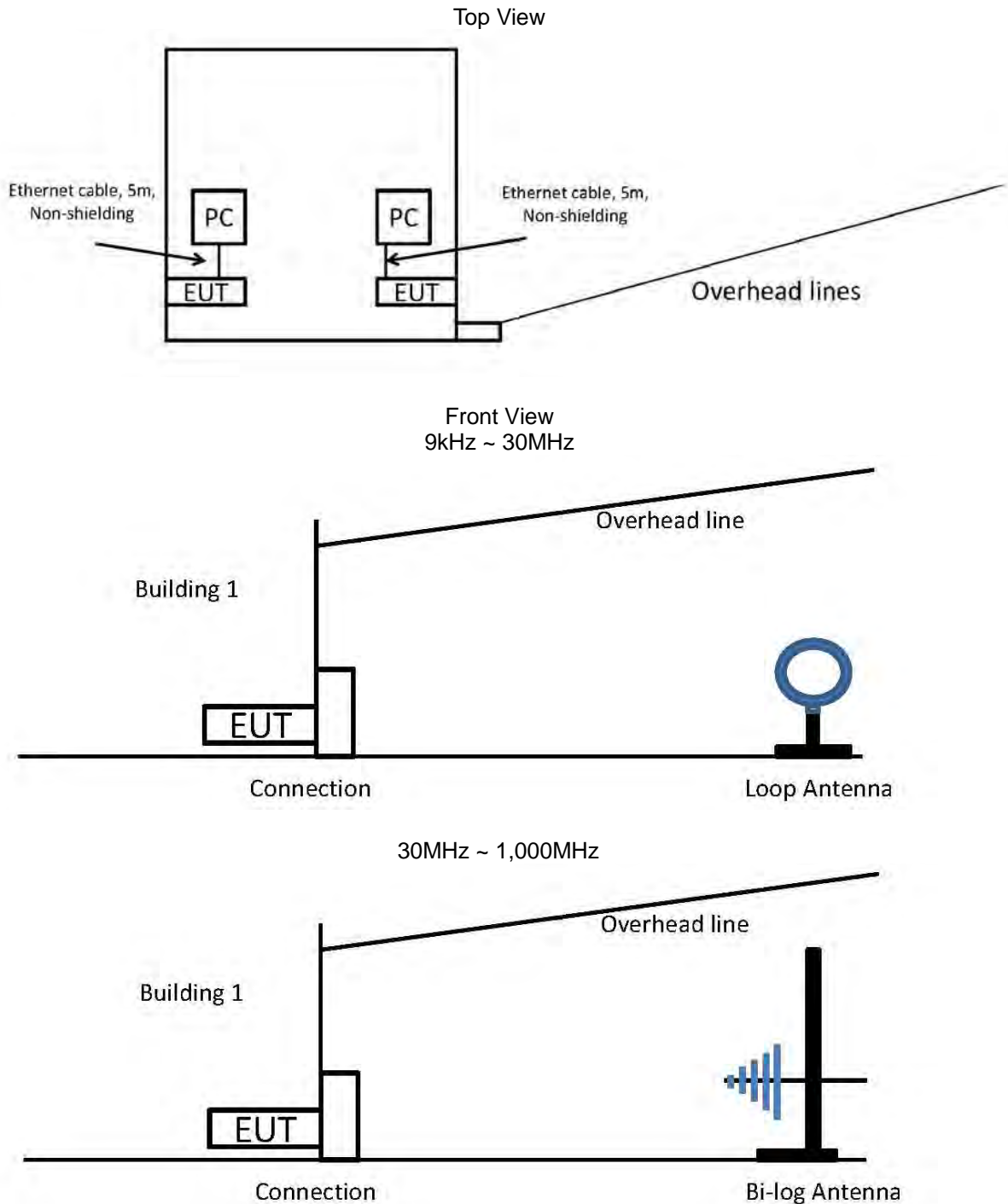
3.4.1. AC Power Line Conduction Emissions Test Configuration



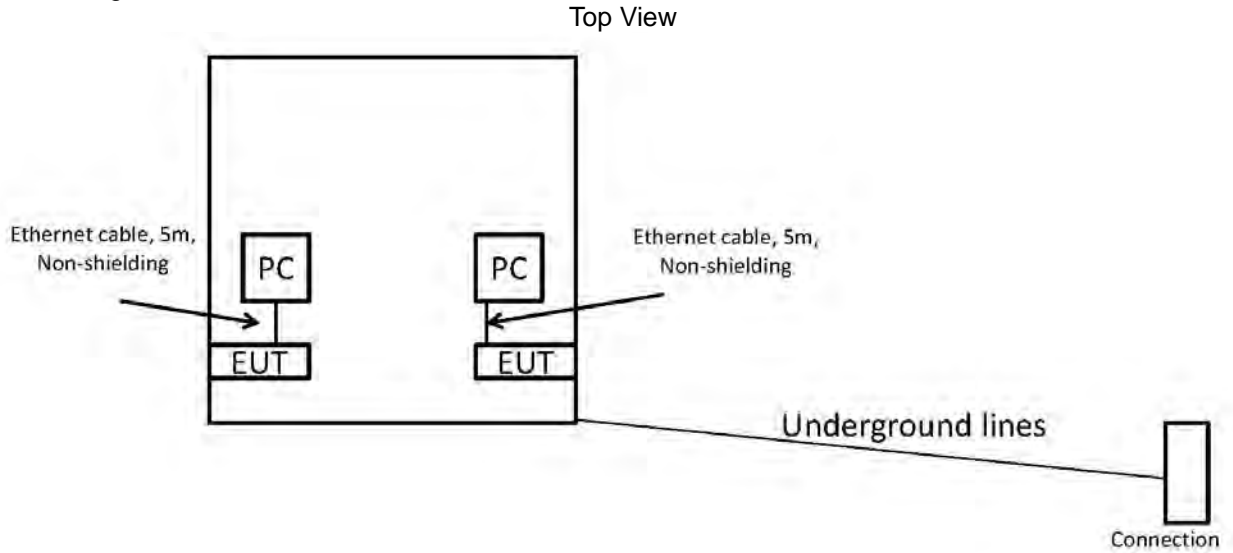
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1m
3	Power cable	No	0.8m

3.4.2. Radiated Emissions Test Configuration

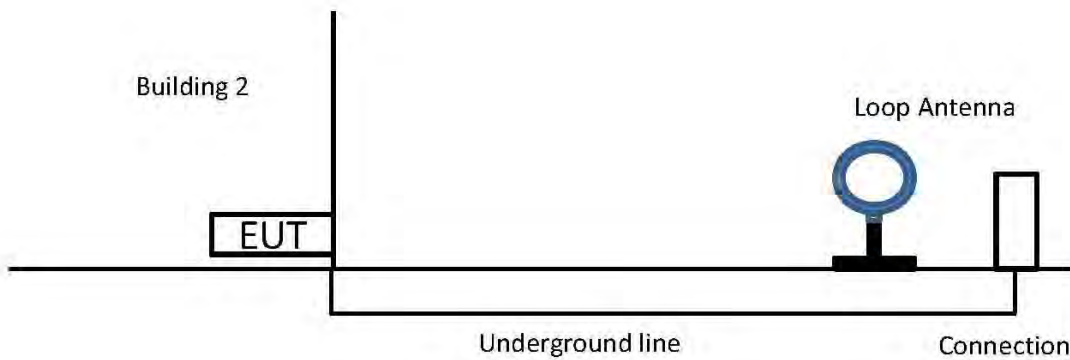
For overhead lines installations



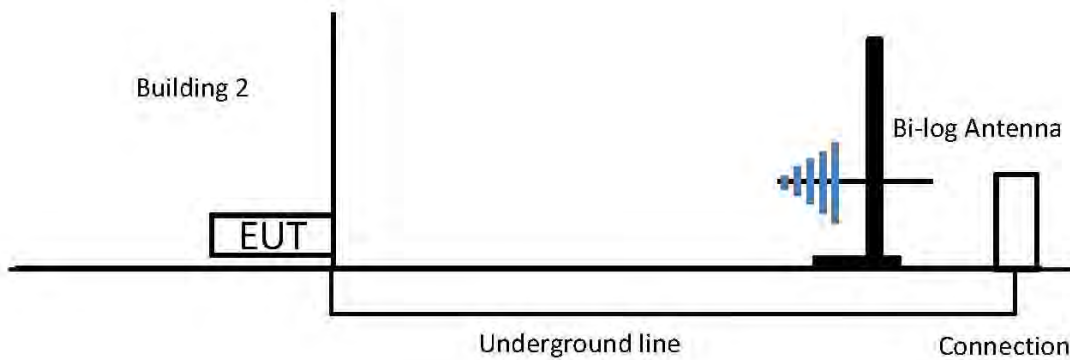
For underground lines installations



Front View
9kHz ~ 30MHz



30MHz ~ 1,000MHz



4. General Information of Test

4.1. Test Facility

Test Site Location : No.8, Lane 724, Bo-ai St., Jhubei City,
Hsinchu County 302, Taiwan, R.O.C.

TEL : 886-3-656-9065

FAX : 886-3-656-9085

Test Site No. : Conduction: CO01-CB

Buildings With Overhead Lines: Test site No. 1

Buildings with Underground Lines: Test site No. 2

Buildings With Overhead Lines: Test site No. 3

4.2. Test Voltage

Power Type	Test Voltage
AC Power Supply	120 V / 60 Hz

4.3. Standard for Methods of Measurement

ANSI C63.4-2014

4.4. Frequency Range Investigated

Test Items	Frequency Range
Conducted emission test	0.535 MHz to 1.705 MHz
Radiated emission test	9 kHz to 1,000 MHz

5. Test of Conducted Emission

5.1. Limit

For a Low-power Radio-frequency Device which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

The limits shown above shall not apply to carrier current systems operating as unintentional radiators on frequencies below 30 MHz. In lieu thereof, these carriercurrent systems shall be subject to the following standards:

- (1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 uV within the frequency band 535-1705 kHz, as measured using a 50 µH/50 ohms LISN

Frequency (MHz)	Limit (uV)	Limit (dBuV)
0.535 ~ 1.705	1000	60

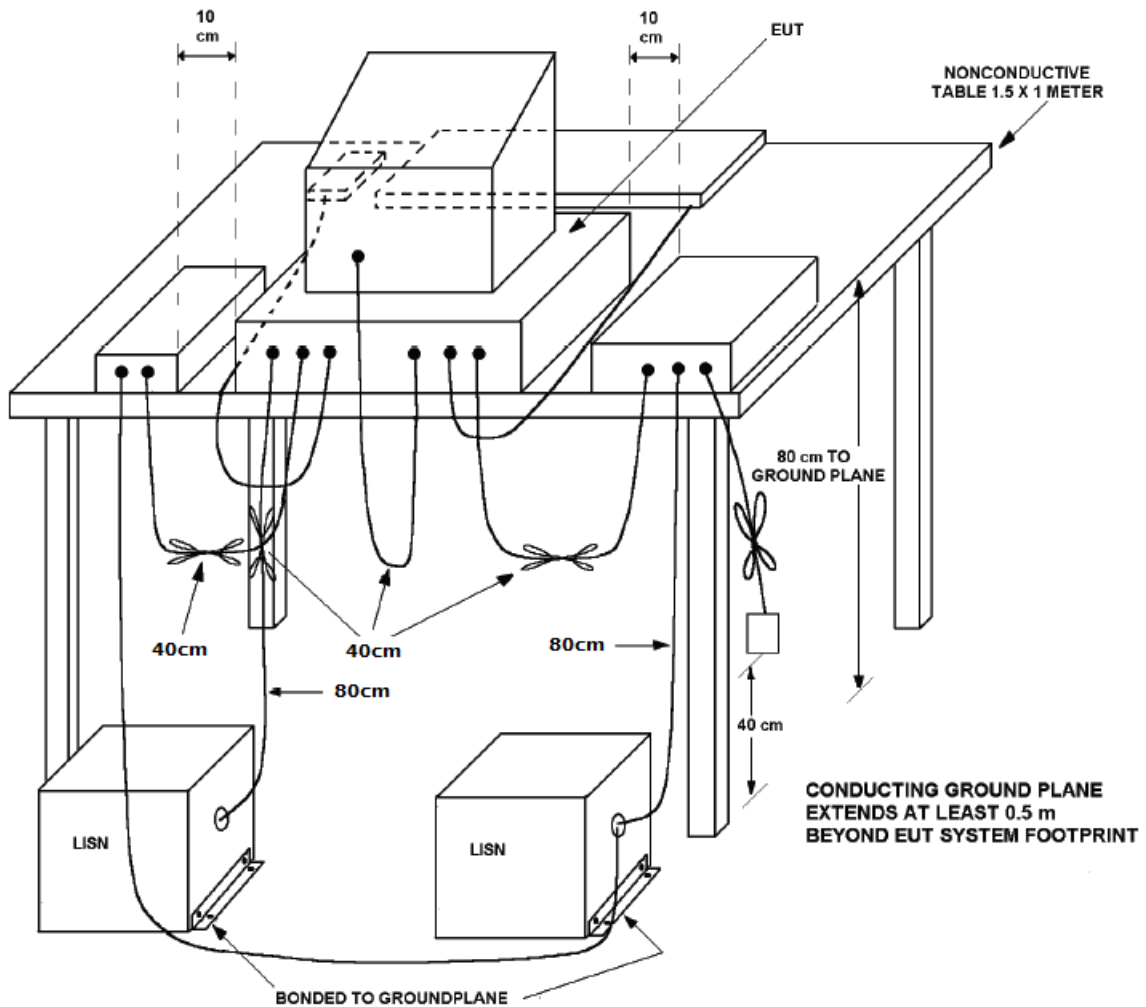
5.2. Description of Major Test Instruments

Receiver Parameters	Setting
Start Frequency	0.535 MHz
Stop Frequency	1.705 MHz
RBW	200 Hz for 9 kHz ~ 150 kHz / 9 kHz for 150 kHz ~ 30 MHz

5.3. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 Ω coupling impedance for the measuring instrument.
- e. The FCC states that a 50 Ω , 50 μ H LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 0.535 MHz to 1.705 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

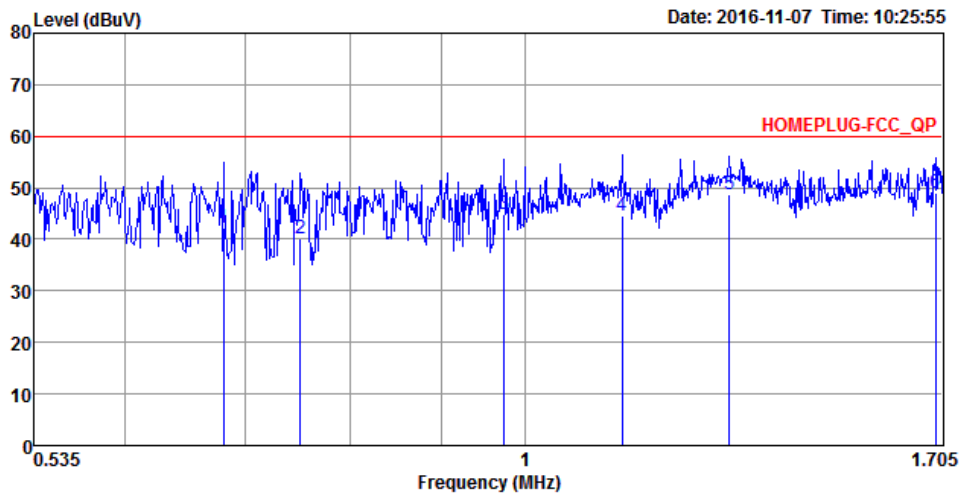
5.4. Typical Test Setup Layout of Conducted Emission



5.5. Test Result of AC Power Ports

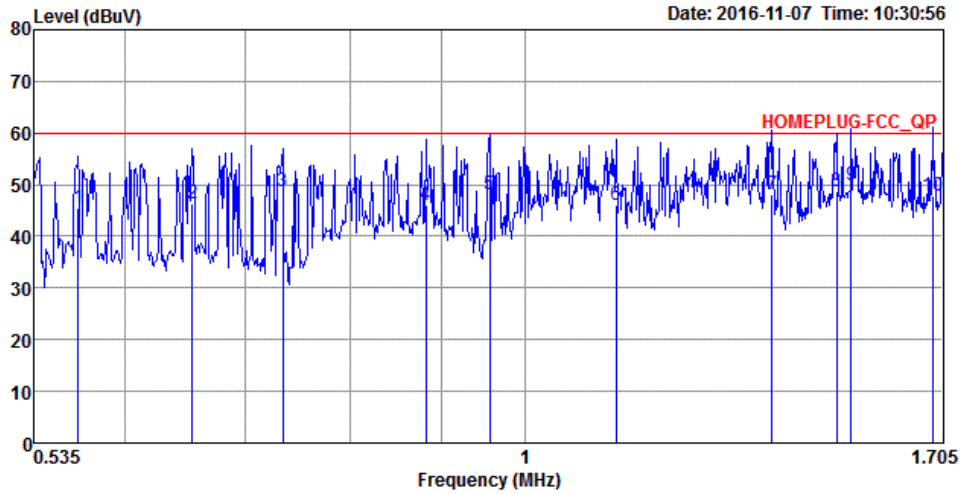
Temperature	23°C	Humidity	60%
Test Engineer	Hank Yang	Frequency Range	0.535 MHz to 1.705 MHz
Test Mode	Mode 1		

Line



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.6809	42.34	-17.66	60.00	32.11	10.03	QP	LINE
2	0.7513	40.16	-19.84	60.00	29.93	10.04	QP	LINE
3	0.9741	44.74	-15.26	60.00	34.50	10.05	QP	LINE
4	1.1325	44.49	-15.51	60.00	34.23	10.06	QP	LINE
5	1.2985	48.83	-11.17	60.00	38.56	10.06	QP	LINE
6	1.6893	49.14	-10.86	60.00	38.83	10.07	QP	LINE

Neutral



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.5656	45.57	-14.43	60.00	35.40	9.97	QP	NEUTRAL
2	0.6545	46.22	-13.78	60.00	36.05	9.97	QP	NEUTRAL
3	0.7341	48.71	-11.29	60.00	38.55	9.97	QP	NEUTRAL
4	0.8817	45.96	-14.04	60.00	35.80	9.97	QP	NEUTRAL
5	0.9562	48.02	-11.98	60.00	37.86	9.97	QP	NEUTRAL
6	1.1233	46.08	-13.92	60.00	35.91	9.97	QP	NEUTRAL
7	1.3712	48.10	-11.90	60.00	37.90	9.98	QP	NEUTRAL
8	1.4888	48.66	-11.34	60.00	38.46	9.98	QP	NEUTRAL
9	1.5166	49.94	-10.06	60.00	39.73	9.98	QP	NEUTRAL
10	1.6834	47.94	-12.06	60.00	37.71	9.99	QP	NEUTRAL

6. Test of Radiated Emission

6.1. Limit

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

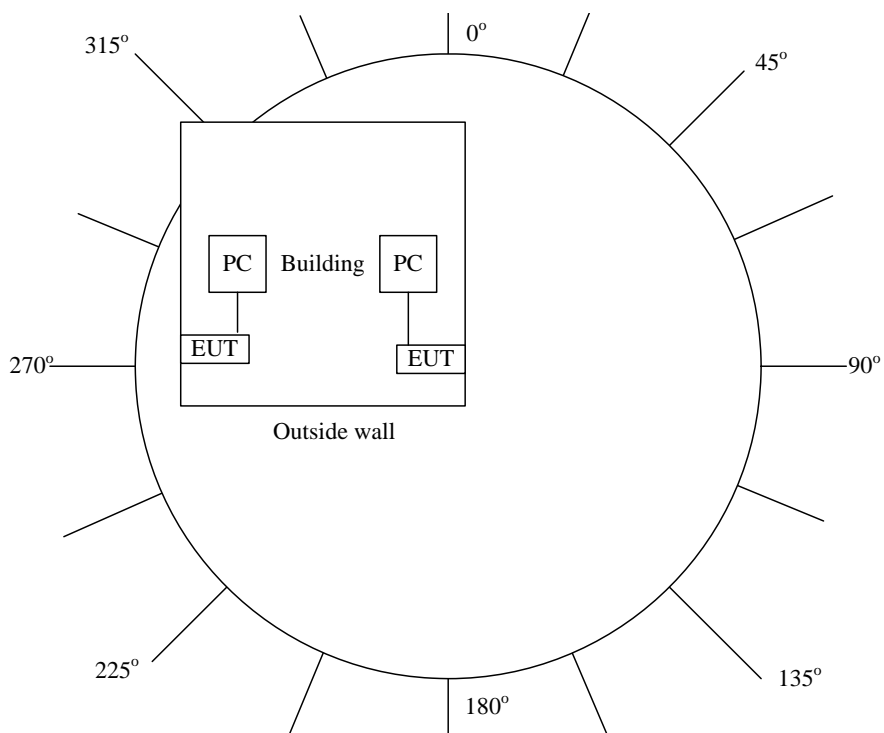
6.2. Description of Major Test Instruments

Receiver Parameter	Setting
Center Frequency	Fundamental Frequency
RBW	200 Hz for 9 kHz ~150 kHz / 9 kHz for 150 kHz ~ 30MHz 120 kHz for 30 MHz to 1,000 MHz
Detector	Quasi-Peak

6.3. Test Procedures

- a. Configure the EUT to normal operation mode. EUT installed in a building on an outside wall on the ground floor or first floor. Testing shall be performed on three typical installations.
- b. Power on the EUT and all the supporting units.
- c. Measurements shall be made at positions around the building perimeter where the maximum emissions occur. ANSI C63.4-2014, specifies a minimum of 16 radial angles surrounding the EUT (building perimeter).
- d. For frequencies below 30 MHz, an active or passive magnetic loop is used. The magnetic loop antenna should be at 1 meter height and the emission maximized over 180 degrees. When using active magnetic loops, care should be taken to prevent ambient signals from overloading the spectrum analyzer.
- e. For frequencies above 30 MHz, a bicon antenna is used. The signal shall be maximized from 1 to 4 meter antenna height for both horizontal and vertical polarizations in accordance to ANSI C63.4-2014 procedures.

6.4. Typical Test Setup Layout of Radiated Emission



6.5. Test Result of Radiated Emission

Temperature	29°C	Humidity	58%
Test Engineer	Edison Lin	Test Mode	Mode 1
Test Date	Sep. 16, 2016	Configuration	Building 1

Measured at 0° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	31.18	-38.36	69.54	-
16.21	29.54	-40.00	69.54	-
25.82	30.90	-38.64	69.54	-
35.49	34.79	-5.21	40.00	Horizontal
44.70	36.20	-3.80	40.00	Horizontal
61.29	33.06	-6.94	40.00	Vertical
168.42	31.08	-12.42	43.50	-
491.85	36.93	-9.07	46.00	-
716.52	29.33	-16.67	46.00	-

Measured at 22.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	28.77	-40.77	69.54	-
16.21	31.04	-38.50	69.54	-
25.82	31.91	-37.63	69.54	-
35.49	32.28	-7.72	40.00	Horizontal
44.70	32.84	-7.16	40.00	Vertical
61.29	34.41	-5.59	40.00	Vertical
168.42	28.27	-15.23	43.50	-
491.85	34.51	-11.49	46.00	-
716.52	33.09	-12.91	46.00	-

Measured at 45° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	28.38	-41.16	69.54	-
16.21	36.13	-33.41	69.54	-
25.82	30.29	-39.25	69.54	-
35.49	36.14	-3.86	40.00	Vertical
44.70	32.79	-7.21	40.00	Vertical
61.29	36.85	-3.15	40.00	Horizontal
168.42	27.13	-16.37	43.50	-
491.85	33.64	-12.36	46.00	-
716.52	32.25	-13.75	46.00	-

Measured at 67.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	32.84	-36.70	69.54	-
16.21	30.52	-39.02	69.54	-
25.82	32.78	-36.76	69.54	-
35.49	33.36	-6.64	40.00	Vertical
44.70	35.38	-4.62	40.00	Horizontal
61.29	36.25	-3.75	40.00	Vertical
168.42	36.72	-6.78	43.50	-
491.85	31.76	-14.24	46.00	-
716.52	30.83	-15.17	46.00	-

Measured at 90° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	30.59	-38.95	69.54	-
16.21	31.26	-38.28	69.54	-
25.82	35.13	-34.41	69.54	-
35.49	34.42	-5.58	40.00	Horizontal
44.70	36.76	-3.24	40.00	Horizontal
61.29	36.69	-3.31	40.00	Vertical
168.42	30.17	-13.33	43.50	-
491.85	32.13	-13.87	46.00	-
716.52	32.29	-13.71	46.00	-

Measured at 112.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	36.91	-32.63	69.54	-
16.21	30.14	-39.40	69.54	-
25.82	32.38	-37.16	69.54	-
35.49	33.17	-6.83	40.00	Horizontal
44.70	33.23	-6.77	40.00	Horizontal
61.29	35.53	-4.47	40.00	Vertical
168.42	34.45	-9.05	43.50	-
491.85	29.33	-16.67	46.00	-
716.52	35.51	-10.49	46.00	-

Measured at 135° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	27.91	-41.63	69.54	-
16.21	33.78	-35.76	69.54	-
25.82	28.21	-41.33	69.54	-
35.49	33.27	-6.73	40.00	Vertical
44.70	35.22	-4.78	40.00	Horizontal
61.29	32.82	-7.18	40.00	Vertical
168.42	30.86	-12.64	43.50	-
491.85	30.77	-15.23	46.00	-
716.52	27.84	-18.16	46.00	-

Measured at 157.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	27.07	-42.47	69.54	-
16.21	29.08	-40.46	69.54	-
25.82	33.46	-36.08	69.54	-
35.49	34.98	-5.02	40.00	Vertical
44.70	32.78	-7.22	40.00	Horizontal
61.29	34.00	-6.00	40.00	Horizontal
168.42	27.48	-16.02	43.50	-
491.85	28.9	-17.10	46.00	-
716.52	36.22	-9.78	46.00	-

Measured at 180° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	32.13	-37.41	69.54	-
16.21	28.20	-41.34	69.54	-
25.82	28.12	-41.42	69.54	-
35.49	33.21	-6.79	40.00	Horizontal
44.70	33.76	-6.24	40.00	Vertical
61.29	35.41	-4.59	40.00	Vertical
168.42	34.17	-9.33	43.50	-
491.85	27.49	-18.51	46.00	-
716.52	35.93	-10.07	46.00	-

Measured at 202.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	29.76	-39.78	69.54	-
16.21	31.22	-38.32	69.54	-
25.82	30.78	-38.76	69.54	-
35.49	32.78	-7.22	40.00	Vertical
44.70	34.63	-5.37	40.00	Vertical
61.29	36.58	-3.42	40.00	Horizontal
168.42	31.78	-11.72	43.50	-
491.85	35.22	-10.78	46.00	-
716.52	30.76	-15.24	46.00	-

Measured at 225° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	30.13	-39.41	69.54	-
16.21	29.98	-39.56	69.54	-
25.82	36.81	-32.73	69.54	-
35.49	35.94	-4.06	40.00	Horizontal
44.70	33.76	-6.24	40.00	Vertical
61.29	33.71	-6.29	40.00	Vertical
168.42	27.06	-16.44	43.50	-
491.85	30.46	-15.54	46.00	-
716.52	35.96	-10.04	46.00	-

Measured at 247.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	27.51	-42.03	69.54	-
16.21	29.95	-39.59	69.54	-
25.82	32.95	-36.59	69.54	-
35.49	34.45	-5.55	40.00	Horizontal
44.70	34.04	-5.96	40.00	Horizontal
61.29	32.50	-7.50	40.00	Vertical
168.42	28.27	-15.23	43.50	-
491.85	32.57	-13.43	46.00	-
716.52	28.02	-17.98	46.00	-

Measured at 270° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	32.04	-37.50	69.54	-
16.21	36.85	-32.69	69.54	-
25.82	35.27	-34.27	69.54	-
35.49	36.48	-3.52	40.00	Horizontal
44.70	34.10	-5.90	40.00	Vertical
61.29	36.83	-3.17	40.00	Vertical
168.42	36.06	-7.44	43.50	-
491.85	27.12	-18.88	46.00	-
716.52	31.66	-14.34	46.00	-

Measured at 292.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	35.71	-33.83	69.54	-
16.21	36.92	-32.62	69.54	-
25.82	28.57	-40.97	69.54	-
35.49	35.58	-4.42	40.00	Horizontal
44.70	32.04	-7.96	40.00	Vertical
61.29	35.49	-4.51	40.00	Vertical
168.42	27.58	-15.92	43.50	-
491.85	33.53	-12.47	46.00	-
716.52	34.64	-11.36	46.00	-

Measured at 315° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	35.97	-33.57	69.54	-
16.21	35.81	-33.73	69.54	-
25.82	35.56	-33.98	69.54	-
35.49	36.65	-3.35	40.00	Horizontal
44.70	33.88	-6.12	40.00	Horizontal
61.29	35.66	-4.34	40.00	Horizontal
168.42	35.91	-7.59	43.50	-
491.85	31.11	-14.89	46.00	-
716.52	28.95	-17.05	46.00	-

Measured at 337.5° position (Building 1)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
13.41	27.88	-41.66	69.54	-
16.21	36.82	-32.72	69.54	-
25.82	27.30	-42.24	69.54	-
35.49	33.93	-6.07	40.00	Horizontal
44.70	33.81	-6.19	40.00	Horizontal
61.29	35.76	-4.24	40.00	Vertical
168.42	29.43	-14.07	43.50	-
491.85	33.48	-12.52	46.00	-
716.52	30.26	-15.74	46.00	-

Note1:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Distance extrapolation factor below 30MHz = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

The other emission levels were very low against the limit so it didn't record in the test report.

Note2:

The tables recorded the polarization for three worst cases.

Temperature	27°C	Humidity	63%
Test Engineer	Edison Lin	Test Mode	Mode 1
Test Date	Sep. 18, 2016	Configuration	Building 2

Measured at 0° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	35.18	-34.36	69.54	-
27.19	27.96	-41.58	69.54	-
35.13	33.89	-6.11	40.00	Vertical
44.45	35.31	-4.69	40.00	Horizontal
58.19	35.07	-4.93	40.00	Horizontal
97.61	35.05	-8.45	43.50	-
255.52	29.07	-16.93	46.00	-
312.00	36.06	-9.94	46.00	-
758.15	36.97	-9.03	46.00	-

Measured at 22.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	32.84	-36.70	69.54	-
27.19	35.81	-33.73	69.54	-
35.13	35.91	-4.09	40.00	Vertical
44.45	32.10	-7.90	40.00	Horizontal
58.19	34.17	-5.83	40.00	Vertical
97.61	29.23	-14.27	43.50	-
255.52	32.26	-13.74	46.00	-
312.00	34.53	-11.47	46.00	-
758.15	31.08	-14.92	46.00	-

Measured at 45° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	35.47	-34.07	69.54	-
27.19	32.66	-36.88	69.54	-
35.13	32.99	-7.01	40.00	Horizontal
44.45	33.35	-6.65	40.00	Vertical
58.19	35.73	-4.27	40.00	Vertical
97.61	28.71	-14.79	43.50	-
255.52	29.47	-16.53	46.00	-
312.00	32.92	-13.08	46.00	-
758.15	30.56	-15.44	46.00	-

Measured at 67.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	28.78	-40.76	69.54	-
27.19	27.05	-42.49	69.54	-
35.13	32.81	-7.19	40.00	Vertical
44.45	34.37	-5.63	40.00	Vertical
58.19	33.35	-6.65	40.00	Horizontal
97.61	33.46	-10.04	43.50	-
255.52	32.51	-13.49	46.00	-
312.00	33.82	-12.18	46.00	-
758.15	35.35	-10.65	46.00	-

Measured at 90° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	34.96	-34.58	69.54	-
27.19	31.76	-37.78	69.54	-
35.13	36.36	-3.64	40.00	Vertical
44.45	35.48	-4.52	40.00	Horizontal
58.19	34.49	-5.51	40.00	Horizontal
97.61	27.88	-15.62	43.50	-
255.52	29.13	-16.87	46.00	-
312.00	27.38	-18.62	46.00	-
758.15	34.25	-11.75	46.00	-

Measured at 112.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	30.18	-39.36	69.54	-
27.19	30.05	-39.49	69.54	-
35.13	35.71	-4.29	40.00	Vertical
44.45	36.63	-3.37	40.00	Horizontal
58.19	34.02	-5.98	40.00	Horizontal
97.61	32.10	-11.40	43.50	-
255.52	35.02	-10.98	46.00	-
312.00	33.59	-12.41	46.00	-
758.15	33.6	-12.40	46.00	-

Measured at 135° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	33.23	-36.31	69.54	-
27.19	28.78	-40.76	69.54	-
35.13	33.08	-6.92	40.00	Vertical
44.45	36.30	-3.70	40.00	Vertical
58.19	34.21	-5.79	40.00	Horizontal
97.61	30.55	-12.95	43.50	-
255.52	36.33	-9.67	46.00	-
312.00	30.53	-15.47	46.00	-
758.15	30.84	-15.16	46.00	-

Measured at 157.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	35.90	-33.64	69.54	-
27.19	29.16	-40.38	69.54	-
35.13	35.90	-4.10	40.00	Horizontal
44.45	35.85	-4.15	40.00	Vertical
58.19	36.96	-3.04	40.00	Horizontal
97.61	34.94	-8.56	43.50	-
255.52	34.82	-11.18	46.00	-
312.00	28.83	-17.17	46.00	-
758.15	29.22	-16.78	46.00	-

Measured at 180° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	33.65	-35.89	69.54	-
27.19	31.12	-38.42	69.54	-
35.13	36.57	-3.43	40.00	Vertical
44.45	35.28	-4.72	40.00	Horizontal
58.19	32.35	-7.65	40.00	Vertical
97.61	28.25	-15.25	43.50	-
255.52	28.95	-17.05	46.00	-
312.00	34.02	-11.98	46.00	-
758.15	30.85	-15.15	46.00	-

Measured at 202.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	28.34	-41.20	69.54	-
27.19	33.66	-35.88	69.54	-
35.13	32.88	-7.12	40.00	Horizontal
44.45	33.93	-6.07	40.00	Vertical
58.19	36.90	-3.10	40.00	Vertical
97.61	31.36	-12.14	43.50	-
255.52	30.54	-15.46	46.00	-
312.00	30.78	-15.22	46.00	-
758.15	33.61	-12.39	46.00	-

Measured at 225° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	33.27	-36.27	69.54	-
27.19	28.57	-40.97	69.54	-
35.13	34.41	-5.59	40.00	Vertical
44.45	36.09	-3.91	40.00	Horizontal
58.19	33.65	-6.35	40.00	Vertical
97.61	34.62	-8.88	43.50	-
255.52	29.32	-16.68	46.00	-
312.00	30.79	-15.21	46.00	-
758.15	28.61	-17.39	46.00	-

Measured at 247.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	36.65	-32.89	69.54	-
27.19	31.67	-37.87	69.54	-
35.13	34.71	-5.29	40.00	Vertical
44.45	35.83	-4.17	40.00	Horizontal
58.19	36.92	-3.08	40.00	Horizontal
97.61	33.34	-10.16	43.50	-
255.52	34.44	-11.56	46.00	-
312.00	27.02	-18.98	46.00	-
758.15	36.74	-9.26	46.00	-

Measured at 270° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	28.02	-41.52	69.54	-
27.19	31.63	-37.91	69.54	-
35.13	32.69	-7.31	40.00	Vertical
44.45	33.88	-6.12	40.00	Horizontal
58.19	34.86	-5.14	40.00	Vertical
97.61	33.78	-9.72	43.50	-
255.52	34.59	-11.41	46.00	-
312.00	33.17	-12.83	46.00	-
758.15	33.98	-12.02	46.00	-

Measured at 292.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	30.32	-39.22	69.54	-
27.19	31.14	-38.40	69.54	-
35.13	33.88	-6.12	40.00	Vertical
44.45	32.66	-7.34	40.00	Horizontal
58.19	35.48	-4.52	40.00	Vertical
97.61	30.52	-12.98	43.50	-
255.52	28.41	-17.59	46.00	-
312.00	35.19	-10.81	46.00	-
758.15	30.24	-15.76	46.00	-

Measured at 315° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	36.58	-32.96	69.54	-
27.19	27.98	-41.56	69.54	-
35.13	32.15	-7.85	40.00	Horizontal
44.45	35.85	-4.15	40.00	Horizontal
58.19	34.72	-5.28	40.00	Horizontal
97.61	27.62	-15.88	43.50	-
255.52	36.79	-9.21	46.00	-
312.00	27.76	-18.24	46.00	-
758.15	33.99	-12.01	46.00	-

Measured at 337.5° position (Building 2)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
10.28	31.89	-37.65	69.54	-
27.19	29.57	-39.97	69.54	-
35.13	32.65	-7.35	40.00	Vertical
44.45	35.25	-4.75	40.00	Horizontal
58.19	32.94	-7.06	40.00	Horizontal
97.61	31.35	-12.15	43.50	-
255.52	33.84	-12.16	46.00	-
312.00	30.46	-15.54	46.00	-
758.15	36.2	-9.80	46.00	-

Note1:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Distance extrapolation factor below 30MHz = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

The other emission levels were very low against the limit so it didn't record in the test report.

Note2:

The tables recorded the polarization for three worst cases.

Temperature	30°C	Humidity	61%
Test Engineer	Edison Lin	Test Mode	Mode 1
Test Date	Sep. 20, 2016	Configuration	Building 3

Measured at 0° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	36.87	-32.67	69.54	-
16.41	34.94	-34.60	69.54	-
30.35	32.80	-7.20	40.00	-
37.51	35.27	-4.73	40.00	Horizontal
49.10	35.41	-4.59	40.00	Horizontal
60.62	35.57	-4.43	40.00	Vertical
102.41	29.99	-13.51	43.50	-
327.19	36.34	-9.66	46.00	-
746.18	36.19	-9.81	46.00	-

Measured at 22.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	35.45	-34.09	69.54	-
16.41	31.42	-38.12	69.54	-
30.35	35.64	-4.36	40.00	Vertical
37.51	35.42	-4.58	40.00	Horizontal
49.10	36.83	-3.17	40.00	Vertical
60.62	32.73	-7.27	40.00	-
102.41	27.45	-16.05	43.50	-
327.19	28.89	-17.11	46.00	-
746.18	29.29	-16.71	46.00	-

Measured at 45° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	30.53	-39.01	69.54	-
16.41	30.28	-39.26	69.54	-
30.35	27.50	-12.50	40.00	-
37.51	36.67	-3.33	40.00	Vertical
49.10	34.62	-5.38	40.00	Vertical
60.62	33.02	-6.98	40.00	Horizontal
102.41	34.70	-8.80	43.50	-
327.19	27.12	-18.88	46.00	-
746.18	29.26	-16.74	46.00	-

Measured at 67.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	35.02	-34.52	69.54	-
16.41	31.61	-37.93	69.54	-
30.35	28.83	-11.17	40.00	-
37.51	35.86	-4.14	40.00	Vertical
49.10	32.39	-7.61	40.00	-
60.62	33.38	-6.62	40.00	Vertical
102.41	36.42	-7.08	43.50	Horizontal
327.19	34.5	-11.50	46.00	-
746.18	28.01	-17.99	46.00	-

Measured at 90° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	32.99	-36.55	69.54	-
16.41	30.28	-39.26	69.54	-
30.35	29.30	-10.70	40.00	-
37.51	32.66	-7.34	40.00	Horizontal
49.10	36.23	-3.77	40.00	Horizontal
60.62	36.51	-3.49	40.00	Vertical
102.41	27.22	-16.28	43.50	-
327.19	32.18	-13.82	46.00	-
746.18	27.9	-18.10	46.00	-

Measured at 112.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	28.51	-41.03	69.54	-
16.41	31.64	-37.90	69.54	-
30.35	30.78	-9.22	40.00	-
37.51	32.09	-7.91	40.00	Horizontal
49.10	34.18	-5.82	40.00	Horizontal
60.62	33.34	-6.66	40.00	Vertical
102.41	32.88	-10.62	43.50	-
327.19	30.73	-15.27	46.00	-
746.18	34.7	-11.30	46.00	-

Measured at 135° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	35.23	-34.31	69.54	-
16.41	34.56	-34.98	69.54	-
30.35	29.56	-10.44	40.00	-
37.51	33.06	-6.94	40.00	Vertical
49.10	36.78	-3.22	40.00	Horizontal
60.62	35.08	-4.92	40.00	Vertical
102.41	30.53	-12.97	43.50	-
327.19	31.83	-14.17	46.00	-
746.18	28.78	-17.22	46.00	-

Measured at 157.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	32.56	-36.98	69.54	-
16.41	33.95	-35.59	69.54	-
30.35	30.57	-9.43	40.00	-
37.51	33.74	-6.26	40.00	Vertical
49.10	32.68	-7.32	40.00	Horizontal
60.62	32.93	-7.07	40.00	Horizontal
102.41	32.93	-10.57	43.50	-
327.19	29.11	-16.89	46.00	-
746.18	27.47	-18.53	46.00	-

Measured at 180° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	31.24	-38.30	69.54	-
16.41	29.01	-40.53	69.54	-
30.35	29.35	-10.65	40.00	-
37.51	34.41	-5.59	40.00	Horizontal
49.10	32.13	-7.87	40.00	-
60.62	33.28	-6.72	40.00	Vertical
102.41	36.74	-6.76	43.50	Vertical
327.19	28.05	-17.95	46.00	-
746.18	30.48	-15.52	46.00	-

Measured at 202.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	29.36	-40.18	69.54	-
16.41	29.50	-40.04	69.54	-
30.35	32.48	-7.52	40.00	-
37.51	36.35	-3.65	40.00	Vertical
49.10	34.86	-5.14	40.00	Vertical
60.62	33.64	-6.36	40.00	Horizontal
102.41	29.70	-13.80	43.50	-
327.19	32.72	-13.28	46.00	-
746.18	28.45	-17.55	46.00	-

Measured at 225° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	28.00	-41.54	69.54	-
16.41	35.04	-34.50	69.54	-
30.35	28.57	-11.43	40.00	-
37.51	34.81	-5.19	40.00	Horizontal
49.10	33.25	-6.75	40.00	Vertical
60.62	36.71	-3.29	40.00	Vertical
102.41	34.10	-9.40	43.50	-
327.19	35.56	-10.44	46.00	-
746.18	29.19	-16.81	46.00	-

Measured at 247.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	34.49	-35.05	69.54	-
16.41	35.11	-34.43	69.54	-
30.35	28.30	-11.70	40.00	-
37.51	35.58	-4.42	40.00	Horizontal
49.10	36.56	-3.44	40.00	Horizontal
60.62	32.41	-7.59	40.00	Vertical
102.41	31.76	-11.74	43.50	-
327.19	27.99	-18.01	46.00	-
746.18	33.04	-12.96	46.00	-

Measured at 270° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	29.38	-40.16	69.54	-
16.41	31.57	-37.97	69.54	-
30.35	33.26	-6.74	40.00	-
37.51	35.48	-4.52	40.00	Horizontal
49.10	34.14	-5.86	40.00	Vertical
60.62	35.88	-4.12	40.00	Vertical
102.41	35.45	-8.05	43.50	-
327.19	30.49	-15.51	46.00	-
746.18	34.84	-11.16	46.00	-

Measured at 292.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	32.68	-36.86	69.54	-
16.41	29.30	-40.24	69.54	-
30.35	28.36	-11.64	40.00	-
37.51	34.78	-5.22	40.00	Horizontal
49.10	32.44	-7.56	40.00	Vertical
60.62	35.36	-4.64	40.00	Vertical
102.41	34.31	-9.19	43.50	-
327.19	27.82	-18.18	46.00	-
746.18	36.28	-9.72	46.00	-

Measured at 315° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	30.95	-38.59	69.54	-
16.41	28.44	-41.10	69.54	-
30.35	30.74	-9.26	40.00	-
37.51	35.34	-4.66	40.00	Horizontal
49.10	36.02	-3.98	40.00	Horizontal
60.62	34.92	-5.08	40.00	Horizontal
102.41	33.23	-10.27	43.50	-
327.19	33.7	-12.30	46.00	-
746.18	35.82	-10.18	46.00	-

Measured at 337.5° position (Building 3)

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m) at 3m	Polarization
2.45	32.02	-37.52	69.54	-
16.41	36.56	-32.98	69.54	-
30.35	35.34	-4.66	40.00	Horizontal
37.51	34.25	-5.75	40.00	Horizontal
49.10	32.56	-7.44	40.00	-
60.62	36.66	-3.34	40.00	Vertical
102.41	33.43	-10.07	43.50	-
327.19	28.18	-17.82	46.00	-
746.18	33.54	-12.46	46.00	-

Note1:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Distance extrapolation factor below 30MHz = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

The other emission levels were very low against the limit so it didn't record in the test report.

Note2:

The tables recorded the polarization for three worst cases.

7. List of Measuring Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 24, 2016	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (10CH01-CB)
Biconical Antenna	Schwarzbeck	VHBB 9124	324	30MHz ~ 200MHz	Apr. 20, 2016	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 07, 2016	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde&Schwarz	FSV30	101026	9kHz ~ 30GHz	Jan. 04, 2016	Radiation (10CH01-CB)

※ Calibration Interval of instruments listed above is one year.

※ * Calibration Interval of instruments listed above is two year.

※ N.C.R. means Non-Calibration required.

8. Uncertainty of Test Site

Test Items	Uncertainty	Remark
Conducted Emissions	3.2 dB	Confidence levels of 95%