



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2) Date : 29 Jan 2018

Application No. : LW002703(1)

Applicant : Big Bang Markets Limited
Unit 03-04, 36/F King Palace Plaza, 52A Sha Tsui Road
Tsuen Wan, Hong Kong

Sample Description : One(1) item of submitted sample stated to be Anti-theft Security Blanket of Model No. CBNR1
Sample registration No. : RV048486-001
Radio Frequency : 13.56MHz Transceiver
Supply Voltage : 3.7V rechargeable battery
No. of submitted sample : Four (4) set(s)

Date Received : 05 Dec 2017
Test Period : 18 Dec 2017 to 22 Dec 2017
Test Requested : FCC Part 15 Certificate,
ISED Certification for License-except Device

Test Method : 47 CFR Part 15 (10-1-16 Edition),
ANSI C63.10 – 2013,
RSS-210 Issue 9
Industry Canada RSS-Gen Issue 4


Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 35.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15
Subpart C and Industry Canada RSS-210 Issue 8.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

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FCC ID: 2AJWCCBNR1
IC: 23375-CBNR1



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1 General Information

1.1 General Description

The equipment under test (EUT) is an Anti-theft Security Blanket. The EUT is power by 3.7V rechargeable battery. It operates at 13.56MHz. There are several motion sensors to detect the movement of the bag. Once the bag is being moved, there is alarm signal form the EUT to for alerting.

The brief circuit description is listed as follows:

- U1 and its associated circuit act as NFC module
- U5 and its associated circuit act as MCU
- X1, X2 and its associated circuit act as oscillator
- IC1 and its associated circuit act as power regulator
- LED3 and its associated circuit act as LED indicator



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1.2 Location of the test site

FCC Accredited Lab Designation Number: HK0004
Industry Canada Registered Test Site Number: 4093A

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2013. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2013. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	R&S	ESCI	100152	07 Dec 2018	1 Year
Spectrum Analyzer	R&S	FSP30	100964	28 Mar 2018	1 Year
Biconical Antenna	Rohde & Schwarz	HK116	837414/004	17 Aug 2018	1 Year
Log Periodic Antenna	Teseq	UPA6109	43666	27 Jul 2018	1 Year
Loop Antenna	EMCO	6502	00056620	25 Jan 2018	2 Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2018	1 Year
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2018	1 Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	20 Dec 2018	1 Year
LISN	R&S	ESH3-Z5	100038	16 Jan 2018	1 Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	12 Feb 2018	1 Year



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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.59dB
30MHz ~ 200MHz (Vertical)	4.49dB
200MHz ~1000MHz (Horizontal)	4.94dB
200MHz ~1000MHz (Vertical)	4.97dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.80dB



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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 1GHz, broadband antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.



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2.2 Test Result

Radiated Emission	15.225 (a) - (d), RSS-210 B.6	Pass
20dB Bandwidth	15.215 (c)	Pass
99% Bandwidth	RSS-Gen	
Frequency Stability	15.225 (e) , RSS-210 B.6	Pass
Line Conducted Emission	15.207, RSS-Gen	Pass



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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	21	° C
Relative humidity:	47	%

Testing frequency range: 9kHz to 1GHz Mode: Transmission

Measurement: Quasi-peak (9kHz – 1GHz)

RBW: 200Hz (below 150kHz), 9kHz (150kHz – 30MHz), 120kHz (30MHz – 1GHz), 1MHz (above 1GHz)

VBW: 1kHz (below 150kHz), 30kHz (150kHz – 30MHz), 300kHz (30MHz – 1GHz)

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Measurement
13.559	H	39.0	10.5	49.5	124.0	- 74.5	Quasi-Peak
13.347	H	11.8	10.5	22.3	80.5	- 58.2	Quasi-Peak
13.424	H	13.0	10.5	23.5	90.5	- 67.0	Quasi-Peak
13.481	H	15.0	10.5	25.5	90.5	- 65.0	Quasi-Peak
13.635	H	14.8	10.5	25.3	90.5	- 65.2	Quasi-Peak
13.693	H	14.0	10.5	24.5	90.5	- 66.0	Quasi-Peak
13.772	H	12.9	10.5	23.4	80.5	- 57.1	Quasi-Peak
108.495	H	29.2	11.2	40.4	43.5	- 3.1	Quasi-Peak
216.948	H	18.1	14.5	32.6	46.0	- 13.4	Quasi-Peak

Remark: Other emissions more than 20dB below the limit are not reported.

If Peak measurement values are lower than average limit, average measurement is not necessary.



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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	21	° C
Relative humidity:	47	%

Testing frequency range: 9kHz to 1GHz Mode: Charging

Measurement: Quasi-peak (9kHz – 1GHz)

RBW: 200Hz (below 150kHz), 9kHz (150kHz – 30MHz), 120kHz (30MHz – 1GHz)

VBW: 1kHz (below 150kHz), 30kHz (150kHz – 30MHz), 300kHz (30MHz – 1GHz)

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V)	Transducer Factor (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)	Measurement
40.672	V	24.9	11.8	36.7	40.0	- 3.3	Quasi-Peak
54.235	V	20.9	10.4	31.3	40.0	- 8.7	Quasi-Peak
108.479	V	23.9	11.2	35.1	43.5	- 8.4	Quasi-Peak
108.492	H	21.4	11.2	32.6	43.5	- 10.9	Quasi-Peak
189.824	V	15.9	15.3	31.2	43.5	- 12.3	Quasi-Peak
189.835	H	18.6	15.3	33.9	43.5	- 9.6	Quasi-Peak
216.957	H	16.0	14.5	30.5	46.0	- 15.5	Quasi-Peak
244.073	H	17.9	14.5	32.4	46.0	- 13.6	Quasi-Peak
271.209	H	19.6	14.5	34.1	46.0	- 11.9	Quasi-Peak

Remark: Other emissions more than 20dB below the limit are not reported.

If Peak measurement values are lower than average limit, average measurement is not necessary.



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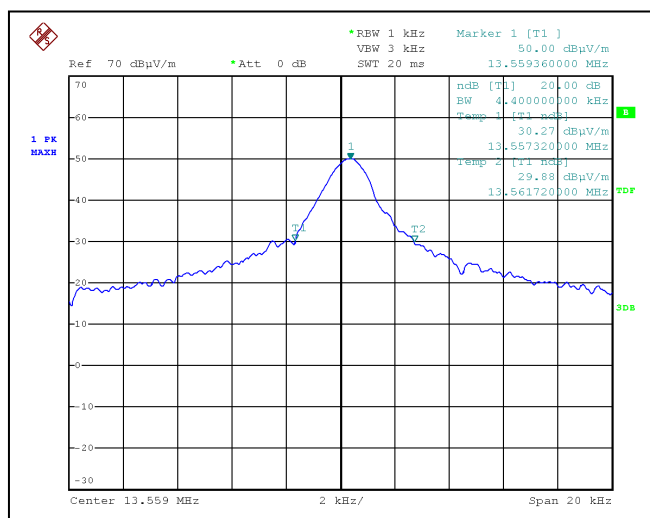
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2.3 Radiated Emission Measurement Data (Con't)

		Limit
Lower edge of 20dB bandwidth	13.557MHz	>13.110MHz
Higher edge of 20dB bandwidth	13.561MHz	<14.010MHz



20dB bandwidth plot



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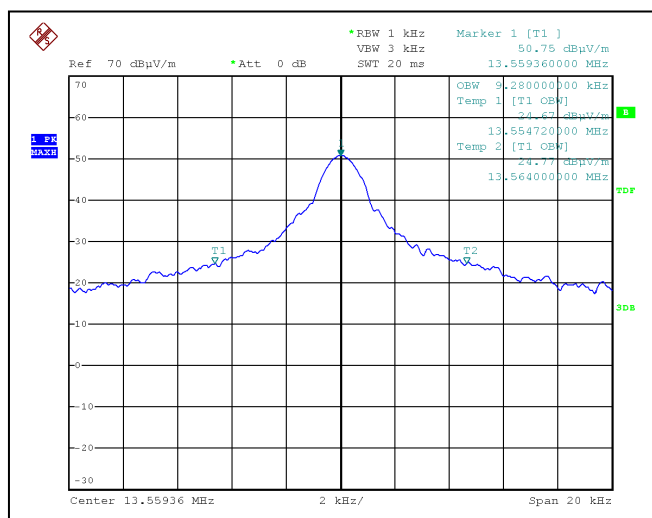
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2.3 Radiated Emission Measurement Data (Con't)

		Limit
Lower edge of 99% bandwidth	13.557MHz	>13.110MHz
Higher edge of 99% bandwidth	13.561MHz	<14.010MHz



99% bandwidth plot

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2.4 Frequency Stability

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	21	°C
Relative humidity:	47	%

RBW: 200Hz (below 150kHz), 9kHz (150kHz – 30MHz), 120kHz (30MHz – 1GHz)

VBW: 1kHz (below 150kHz), 30kHz (150kHz – 30MHz), 300kHz (30MHz – 1GHz)

1. Temperature variation

Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit(Hz)
50	13.559291	-709	+/-1356
40	13.559301	-699	+/-1356
30	13.559322	-678	+/-1356
20	13.559351	-649	+/-1356
10	13.559355	-645	+/-1356
0	13.559356	-644	+/-1356
-10	13.559356	-644	+/-1356
-20	13.559360	-640	+/-1356
-30	13.559361	-639	+/-1356

2. Voltage variation

Supply voltage (V)	Frequency (MHz)	Delta (Hz)	Limit
4.255	13.559351	-649	+/-1356
3.700	13.559351	-649	+/-1356
3.145	13.559350	-650	+/-1356

2.5 The Tag

The tag together with the EUT is a passive tag which does not contain battery. It does not have any radiated frequency signal.



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3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT connected to an adaptor for charging



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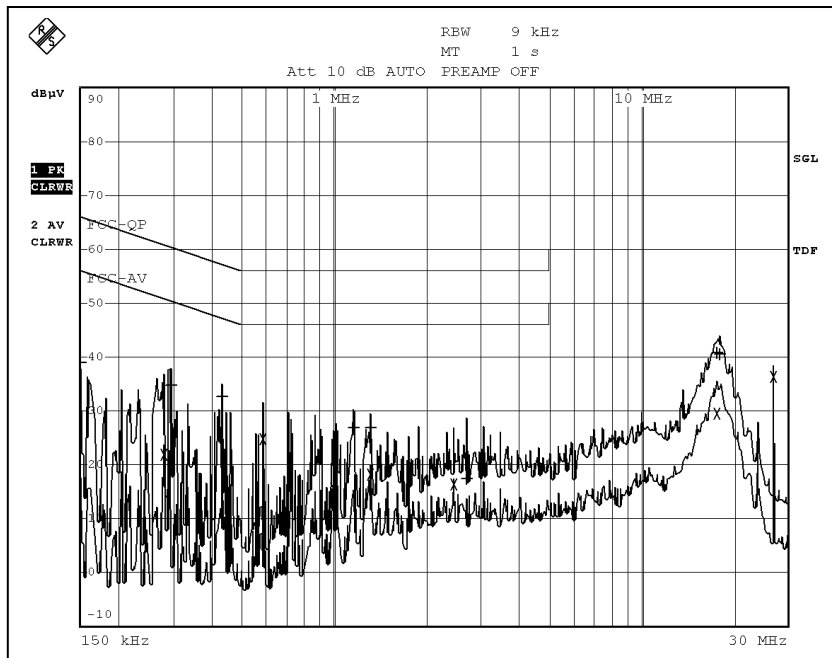
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3.3 Graph and Table of Line-conducted Emission Measurement Data



EDIT PEAK LIST (Final Measurement Results)				
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
Trace1:	FCC-QP			
Trace2:	FCC-AV			
Trace3:	---			
1 Quasi Peak	150 kHz	38.84	L1 gnd	-27.16
2 Average	280.5 kHz	21.94	N gnd	-28.85
1 Quasi Peak	294 kHz	34.76	N gnd	-25.64
1 Quasi Peak	433.5 kHz	32.61	N gnd	-24.56
2 Average	581 kHz	24.78	N gnd	-21.21
2 Average	999.5 kHz	15.48	N gnd	-30.51
1 Quasi Peak	1.157 MHz	26.96	L1 gnd	-29.03
1 Quasi Peak	1.3055 MHz	26.93	L1 gnd	-29.06
2 Average	1.3055 MHz	18.30	N gnd	-27.69
2 Average	2.4665 MHz	16.45	N gnd	-29.54
1 Quasi Peak	2.7005 MHz	17.35	N gnd	-38.64
1 Quasi Peak	17.645 MHz	40.78	N gnd	-19.21
2 Average	17.645 MHz	29.47	N gnd	-20.52
1 Quasi Peak	18.041 MHz	40.59	N gnd	-19.40
2 Average	27.1175 MHz	36.25	N gnd	-13.74



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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission

For electronic filing, the photos are saved with filename 2AJWCCBNR1 TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename 2AJWCCBNR1 ExPho.pdf and 2AJWCCBNR1 InPho.pdf.

4.3 Antenna requirement

Appendices A4 shows the antenna is permanently attached and cannot be changed. Therefore it fulfils the section 15.203 requirement



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5 Appendices

A1	Photos of the set-up of Radiated Emissions	3	pages
A2	Photos of the set-up of Line-conducted Emissions	1	pages
A3	Photos of External Configurations	5	pages
A4	Photos of Internal Configurations	4	pages
A5	ID Label/Location	5	pages



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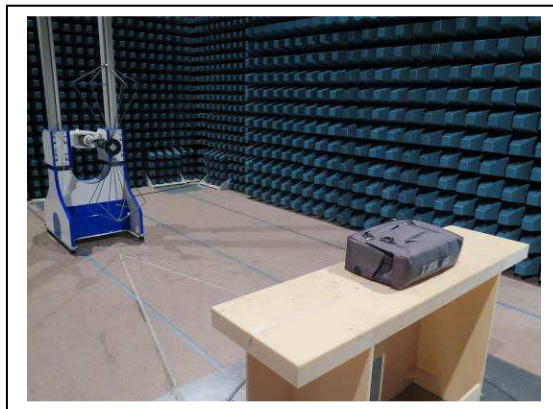
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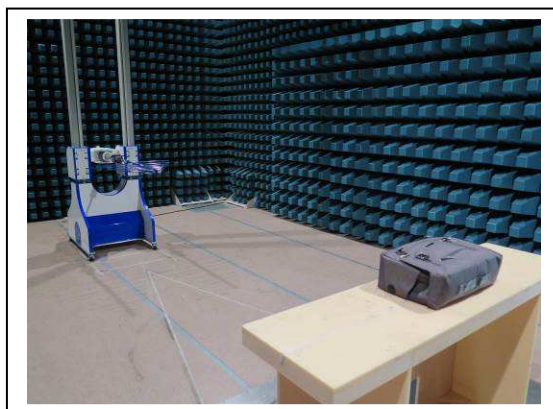
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A1. Photos of the set-up of Radiated Emissions



30MHz – 200MHz



200MHz – 1GHz

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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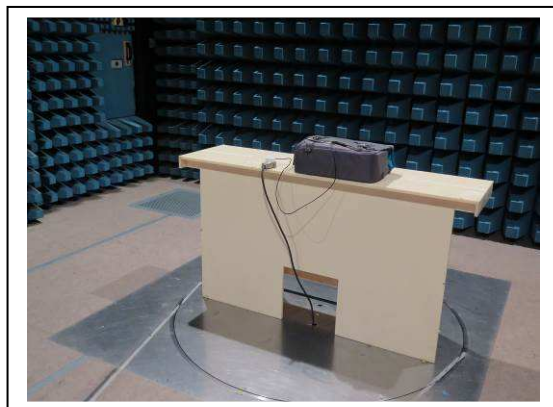
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A1. Photos of the set-up of Radiated Emissions



9kHz – 30MHz



Charging, back view

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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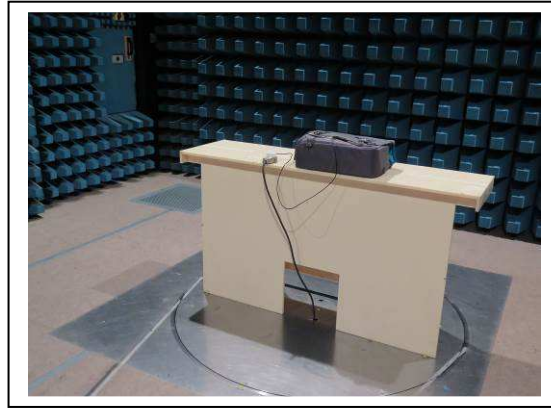
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A1. Photos of the set-up of Radiated Emissions



Charging, back view

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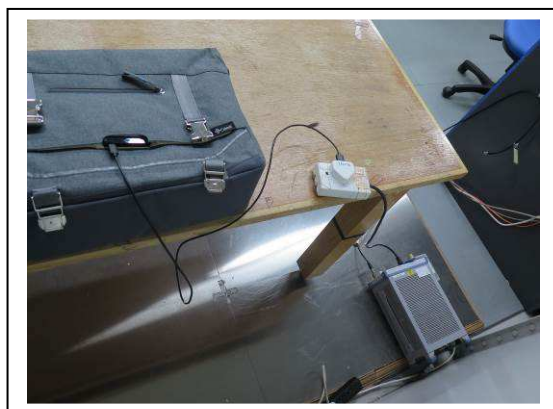
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A2. Photos of the set-up of Line-conducted Emissions



Front view



Back view

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A3 Photos of External Configurations



(External Configuration 1)



(External Configuration 2)

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A3 Photos of External Configurations



(External Configuration 3)



(External Configuration 4)

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A3 Photos of External Configurations



(External Configuration 5)



(External Configuration 6)

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A3 Photos of External Configurations



(External Configuration 7)



(External Configuration 8)

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A3 Photos of External Configurations



(External Configuration 9)

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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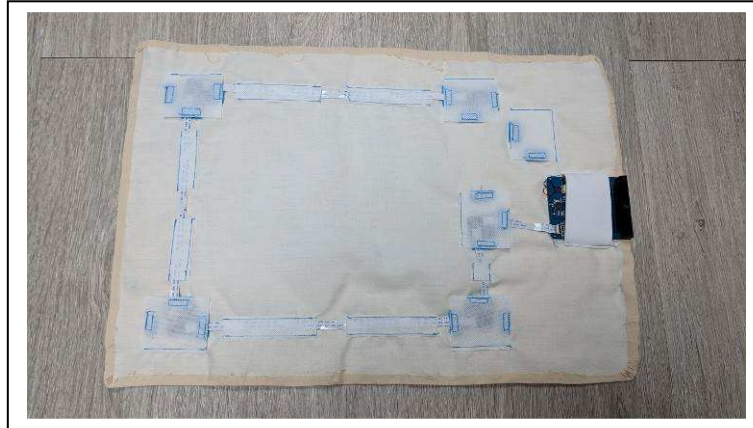
廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A4. Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1

IC: 23375-CBNR1

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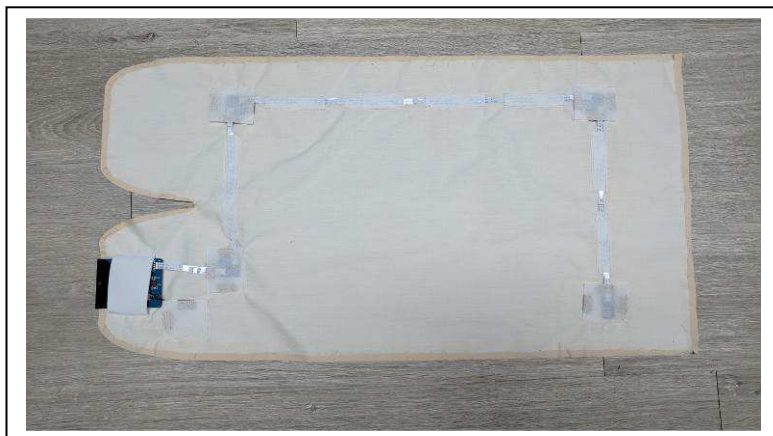
廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A4. Photos of Internal Configurations



Internal Configuration 3



Internal Configuration 4

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1

IC: 23375-CBNR1

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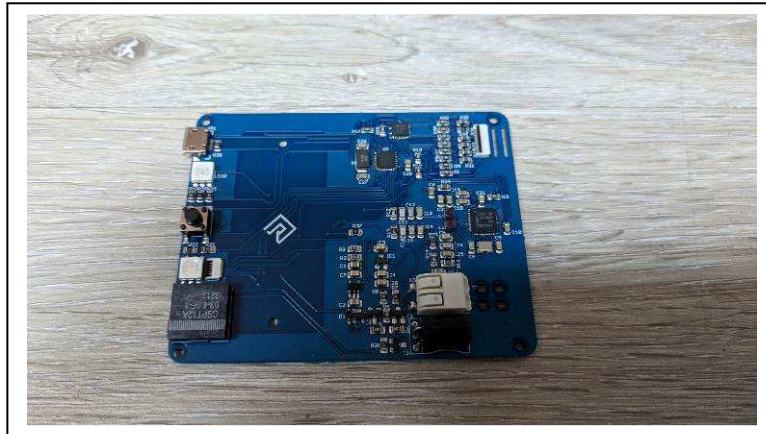
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TEST REPORT

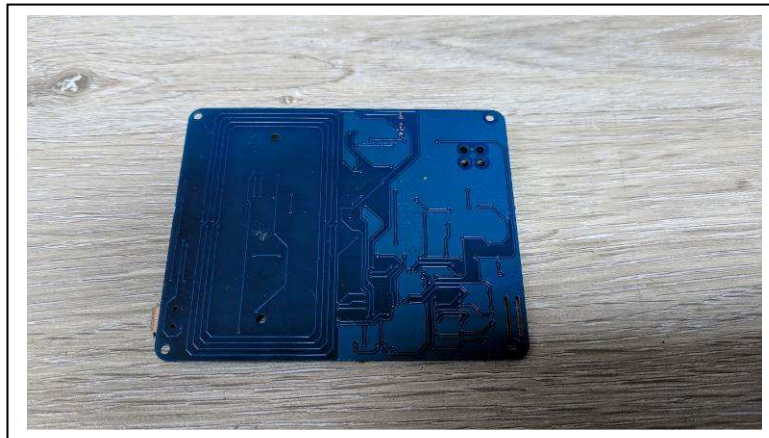
Report No. : AW0007719(2)

Date : 29 Jan 2018

A4. Photos of Internal Configurations



Internal Configuration 5



Internal Configuration 6

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1
IC: 23375-CBNR1

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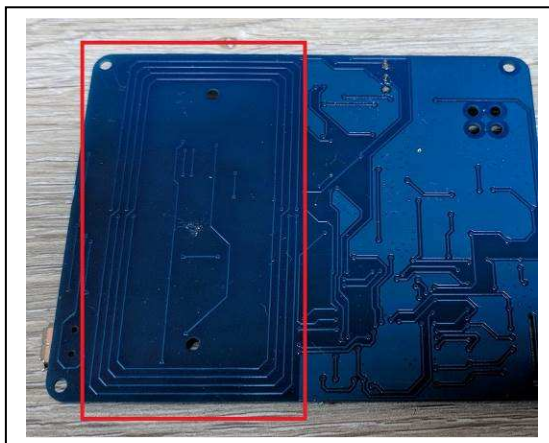
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TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A4. Photos of Internal Configurations



Antenna

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1

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廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A5. ID Label / Location



ID Label 1

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A5. ID Label / Location



ID Label 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1
IC: 23375-CBNR1

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CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A5. ID Label / Location



ID Label 3

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A5. ID Label / Location



ID Label 4

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1

IC: 23375-CBNR1



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廠商會檢定中心

TEST REPORT

Report No. : AW0007719(2)

Date : 29 Jan 2018

A5. ID Label / Location

 CabinR Anti-theft Security Blanket Model: CBNR1 Battery: 700 mAh @ 3.7V 2.59 Wh	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.
  	FCC ID: 2AJWCCBNR1 IC: 23375-CBNR1

ID Label 5

***** End of Report *****

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AJWCCBNR1
IC: 23375-CBNR1

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