FCC RF Test Report

APPLICANT : BungBungame Technology Co.,Ltd.

EQUIPMENT: BungBungame Tablet

BRAND NAME : BungBungame

MODEL NAME : KALOS 2

FCC ID : 2ADNC-KA2TB115

STANDARD : FCC Part 15 Subpart E §15.407

CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Oct. 12, 2016 and testing was completed on Jan. 06, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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

SPORTON INTERNATIONAL INC.

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: Rev. 01

Report No.: FR5O1213E

Report Template No.: BU5-FR15EWL AC MA Version 1.2

Report Version

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REVISION HISTORY

Report No.: FR5O1213E

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5O1213E	Rev. 01	Initial issue of report	Jan. 29, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	•
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 4.22 dB at 43.770 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 3.40 dB at 0.542 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

BungBungame Technology Co.,Ltd.

15F., No. 19-11, Sanchong Rd., Nangang Dist., Taipei City 11501, Taiwan (R.O.C)

1.2 Manufacturer

Inventec Appliances (Jiangning) Corporation

No. 133, Jiang-Jun Road, Jiangning District, Nanjing

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	BungBungame Tablet					
Brand Name	BungBungame					
Model Name	KALOS 2					
FCC ID	2ADNC-KA2TB115					
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.1 EDR/LE					
HW Version	PVT					
SW Version	1					
EUT Stage	Identical Prototype					

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Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Standa	ards-related Produc	ct Specification					
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240	MHz					
	<5180 MHz ~ 5240						
	<ant. 1=""></ant.> 802.11a : 9.97 dBm / 0.0099 W						
	SISO <ant. 1="" port=""></ant.>						
	802.11n HT20 : 9.95 dBm / 0.0099 W						
	802.11n HT40 : 9.5	59 dBm / 0.0091 W	1				
	802.11ac VHT20: 9						
	802.11ac VHT40: 9						
	802.11ac VHT80: 9	9.52 dBm / 0.0090	W				
	<ant. 2=""></ant.>	/ 0. 000 / 11/					
Marrian Control Danier	802.11a : 9.59 dBn						
Maximum Output Power	SISO <ant. 2<="" port="" td=""><td></td><td>1</td><td></td></ant.>		1				
	802.11n HT20 : 9.9 802.11n HT40 : 9.5						
	802.111111140 : 9.0						
	802.11ac VHT40: 9						
	802.11ac VHT80: 9						
	MIMO <ant. +="" 1="" 2="" port=""></ant.>						
	802.11n HT20 : 12.99 dBm / 0.0199 W						
	802.11n HT40 : 12	.80 dBm / 0.0191 \	N				
	802.11ac VHT20: 1	12.89 dBm / 0.019	5 W				
	802.11ac VHT40: 12.75 dBm / 0.0188 W						
	802.11ac VHT80: 1		9 W				
	802.11a : 19.00 Mi						
	802.11n HT20 : 19						
99% Occupied Bandwidth	802.11n HT40 : 36						
-	802.11ac VHT20:						
	802.11ac VHT40 : 36.80 MHz 802.11ac VHT80 : 76.08 MHz						
	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)						
Type of Modulation	802.11ac : OFDM	•	,	56QAM)			
	Main Antenna: Chip Antenna						
Antenna Type	Aux. Antenna: Monopole Antenna						
	Main Antenna : 1.2						
Antenna Gain	Aux. Antenna : -2.0						
		Ant.	Ant.				
		Port 1	Port 2				
	802.11 a	V	V				
Antenna Function Description	802.11 n/ac	V	V				
	SISO	V	V				
	802.11 n/ac	V	V				
	MIMO						

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Test Site Location	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.				
rest Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Test Site No.	Sporton Site No.				
rest site No.	TH02-HY CO05-HY				

Note: The test site complies with ANSI C63.10 2009 requirement.

Test Site	SPORTON INTERNATIONAL INC.
	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,
Took Site Legation	Taoyuan City, Taiwan (R.O.C.)
Test Site Location	TEL: +886-3-327-0868
	FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
rest site No.	03CH11-HY

Note: The test site complies with ANSI C63.10 2009 requirement.

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1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2009

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y and Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	36	5180	44	5220
5150-5250 MHz	38	5190	46	5230
Band 1 (U-NII-1)	40	5200	48	5240
(0 1411 1)	42	5210		

Note: The above Frequency and Channel in boldface were 802.11n HT40.

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

<Ant. 1>

5GHz 802.11a mode									
Data Rate (MHz) 6M bps		9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps	
Average Power (dBm)	<mark>9.97</mark>	9.88	9.85	9.94	9.83	9.95	9.94	9.92	

SISO <Ant. Port 1>

5GHz 802.11n HT20 mode									
Data Rate (MHz) MCS		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
Average Power (dBm)	<mark>9.95</mark>	9.90	9.67	9.90	9.90	9.91	9.91	9.92	

5GHz 802.11n HT40 mode									
Data Rate (MHz) MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
Average Power (dBm)	<mark>9.59</mark>	9.31	9.36	9.40	9.48	9.48	9.44	9.50	

5GHz 802.11ac VHT20 mode										
Data Rate (MHz)	MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	
Average Power (dBm)	<mark>9.85</mark>	9.72	9.79	9.84	9.83	9.83	9.76	9.79	9.81	

5GHz 802.11ac VHT40 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8 MCS 9										MCS 9
Average Power (dBm)	<mark>9.58</mark>	9.38	9.37	9.52	9.37	9.43	9.47	9.53	9.50	9.53

5GHz 802.11ac VHT80 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8 MCS 9										MCS 9
Average Power (dBm)	<mark>9.52</mark>	9.16	9.15	9.35	9.32	9.47	9.29	9.31	9.46	9.30

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<Ant. 2>

	5GHz 802.11a mode										
Data Rate (MHz) 6M bps 9M bps 12M bps 18M bps 24M bps 36M bps 48M bps 54M bps											
Average Power (dBm)	<mark>9.59</mark>	9.08	9.11	9.09	9.24	9.28	9.34	9.21			

SISO <Ant. Port 2>

	5GHz 802.11n HT20 mode										
Data Rate (MHz) MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7											
Average Power (dBm)	<mark>9.95</mark>	9.72	9.78	9.89	9.84	9.90	9.93	9.92			

5GHz 802.11n HT40 mode										
Data Rate (MHz) MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7										
Average Power (dBm)	<mark>9.59</mark>	9.24	9.15	9.30	9.12	9.19	9.31	9.27		

		5G	Hz 802.11	lac VHT2	0 mode	5GHz 802.11ac VHT20 mode											
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8																	
Average Power (dBm)	<mark>9.86</mark>	9.85	9.65	9.81	9.81	9.83	9.79	9.75	9.79								

	5GHz 802.11ac VHT40 mode											
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8 MCS 9										MCS 9		
Average Power (dBm) 9.70 9.36 9.25 9.35 9.38 9.48 9.48 9.42 9.41 9.42										9.42		

	5GHz 802.11ac VHT80 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8 MCS 9										MCS 9	
Average Power (dBm)	<mark>9.97</mark>	9.67	9.69	9.90	9.91	9.92	9.85	9.88	9.86	9.86	

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MIMO <Ant. 1+2>

	5GHz 802.11n HT20 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7											
Average Power (dBm)	<mark>12.99</mark>	12.81	12.79	12.97	12.98	12.92	12.98	12.90			

	5GHz 802.11n HT40 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7											
Average Power (dBm)	<mark>12.80</mark>	12.59	12.46	12.69	12.63	12.66	12.58	12.53			

		5G	Hz 802.11	lac VHT2	0 mode			5GHz 802.11ac VHT20 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8																		
Average Power (dBm)	12.89	12.77	12.77	12.87	12.84	12.87	12.84	12.80	12.80									

	5GHz 802.11ac VHT40 mode										
Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8 MCS 9										MCS 9	
Average Power (dBm)	<mark>12.75</mark>	12.52	12.42	12.59	12.53	12.58	12.59	12.67	12.61	12.57	

5GHz 802.11ac VHT80 mode										
Data Rate (MHz)	MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Average Power (dBm)	<mark>12.99</mark>	12.90	12.88	12.95	12.49	12.42	12.42	12.55	12.40	12.34

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

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2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Single Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases						
AC	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable (Charging from					
Conducted	Adapter)					
Emission	Adapter)					

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	Ch #	Band I: 5150-5250 MHz	Band I: 5150-5250 MHz	Band I: 5150-5250 MHz
	Ch. #	802.11a	802.11n HT20	802.11n HT40
L	Low	36	38	36
М	Middle	44	-	44
Н	High	48	46	48

	Ch #	Band I: 5150-5250 MHz	Band I: 5150-5250 MHz	Band I: 5150-5250 MHz
	Ch. #	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	38	-	36
M	Middle	-	42	44
Н	High	46	-	48

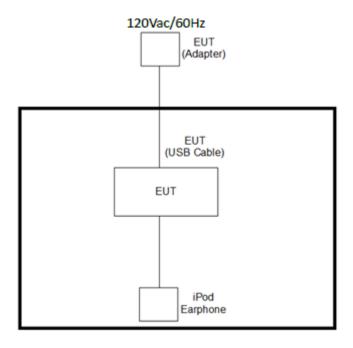
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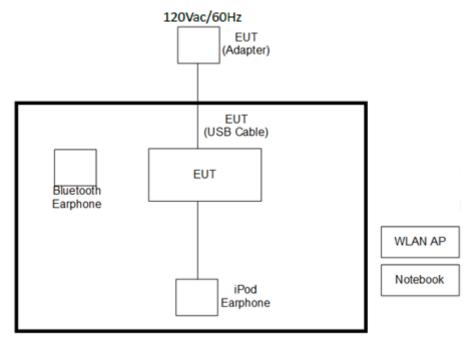
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

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2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "k2_wifi_controler.exe" installed in the notebook makes the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

= 4.2 + 10 = 14.2 (dB)

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3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

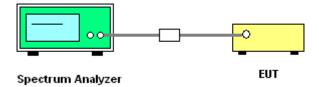
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
 Section C) Emission bandwidth
- 2. Set RBW = approximately 1% of the emission bandwidth.
- 3. Set the VBW > RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold
- 6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- 7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 8. Measure and record the results in the test report.

3.1.4 Test Setup



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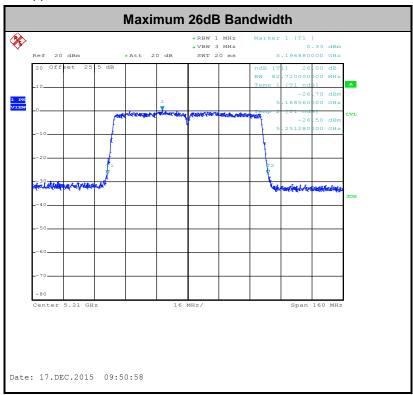
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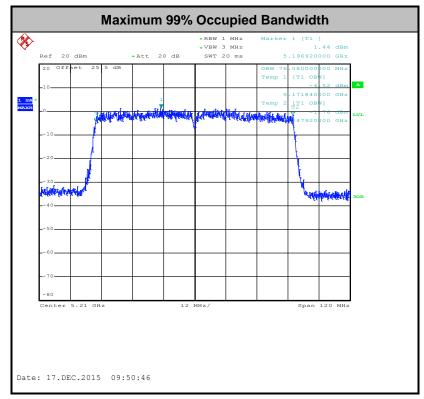
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3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

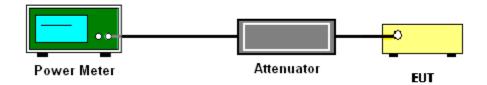
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.

Method PM (Measurement using an RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
- 3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

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If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW ≥ 3 MHz.
 - Number of points in sweep ≥ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

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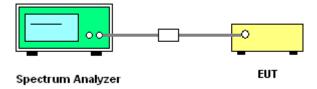
Report Version : Rev. 01 FCC ID: 2ADNC-KA2TB115 Report Template No.: BU5-FR15EWL AC MA Version 1.2

- 2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
- 4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



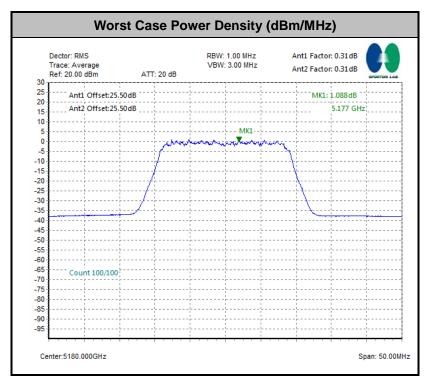
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3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor

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3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBµV/m)
-17	78.3
- 27	68.3

(3) KDB789033 D02 v01r01 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.4.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
 Section G) Unwanted emissions measurement.

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- (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
- (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
- (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0	802.11a	93.51	1440	0.69	
1	802.11a	93.46	1430	0.70	1kHz
0	5 GHz 802.11n HT20	92.41	1340	0.75	TKHZ
1	5 GHz 802.11n HT20	92.41	1340	0.75	
0	5 GHz 802.11n HT40	86.61	660	1.52	21.Ll-
1	5 GHz 802.11n HT40	86.22	657	1.52	3kHz
0	5 GHz 802.11ac VHT20	92.47	1350	0.74	41/11=
1	5 GHz 802.11ac VHT20	92.47	1350	0.74	1kHz
0	5 GHz 802.11ac VHT40	86.72	666	1.50	01.11-
1	5 GHz 802.11ac VHT40	86.72	666	1.50	3kHz
0	5 GHz 802.11ac VHT80	76.39	330	3.03	40141-
1	5 GHz 802.11ac VHT80	76.39	330	3.03	10kHz
0+1	802.11a for Ant 1	92.86	1430	0.70	
0+1	802.11a for Ant 2	92.86	1430	0.70	1kHz
0+1	5 GHz 802.11n HT20 for Ant 1	93.06	1340	0.75	IKIZ
0+1	5 GHz 802.11n HT20 for Ant 2	93.06	1340	0.75	
0+1	5 GHz 802.11n HT40 for Ant 1	86.61	660	1.52	3kHz
0+1	5 GHz 802.11n HT40 for Ant 2	86.61	660	1.52	SKIIZ
0+1	5 GHz 802.11ac VHT20 for Ant 1	93.10	1350	0.74	1kHz
0+1	5 GHz 802.11ac VHT20 for Ant 2	92.41	1340	0.75	IKIZ
0+1	5 GHz 802.11ac VHT40 for Ant 1	85.71	660	1.52	3kHz
0+1	5 GHz 802.11ac VHT40 for Ant 2	85.71	660	1.52	JK⊓∠
0+1	5 GHz 802.11ac VHT80 for Ant 1	76.39	330	3.03	10kU=
0+1	5 GHz 802.11ac VHT80 for Ant 2	76.39	330	3.03	10kHz

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2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.

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- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. 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 average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

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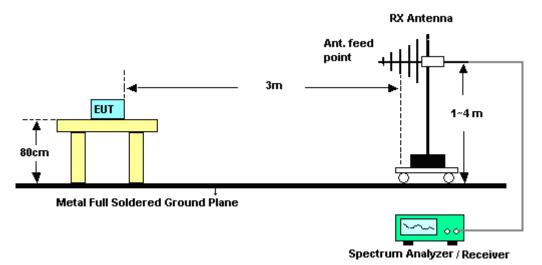
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3.4.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

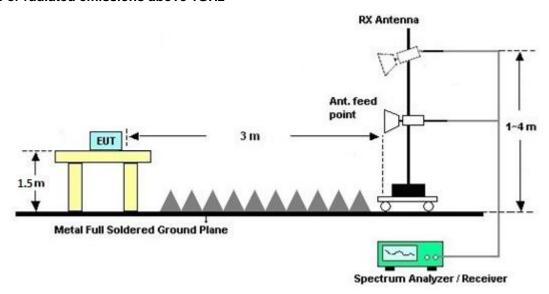


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For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

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3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (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 the limits in the following table.

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Fraguency of amission (MUz)	Conducted limit (dBµV)			
Frequency of emission (MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

^{*}Decreases with the logarithm of the frequency.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. 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.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

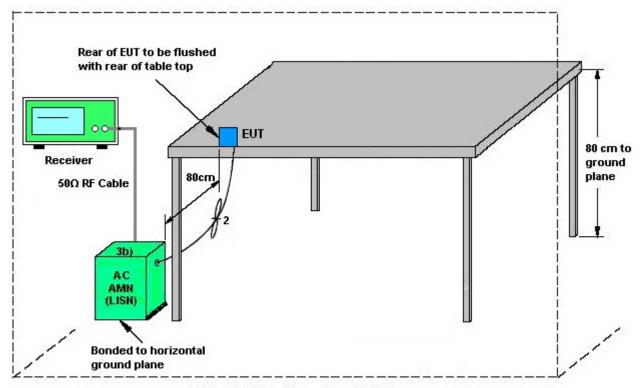
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3.5.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

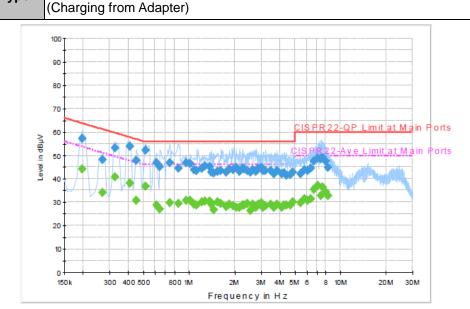
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3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~21℃			
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
Function Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable					
Function Type:	(Observing from Adoutes)					



Final Result: QuasiPeak

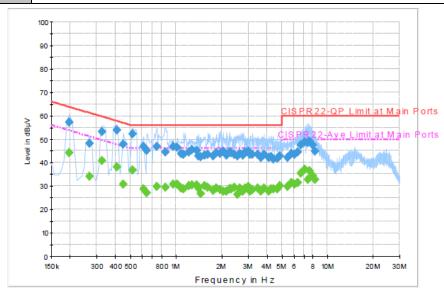
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	57.1	Off	L1	19.7	6.6	63.7
0.270000	48.3	Off	L1	19.7	12.8	61.1
0.326000	53.3	Off	L1	19.7	6.3	59.6
0.406000	53.8	Off	L1	19.7	3.9	57.7
0.446000	47.9	Off	L1	19.6	9.0	56.9
0.518000	52.0	Off	L1	19.7	4.0	56.0
0.614000	46.9	Off	L1	19.6	9.1	56.0
0.638000	45.2	Off	L1	19.7	10.8	56.0
0.750000	46.8	Off	L1	19.7	9.2	56.0
0.854000	44.4	Off	L1	19.6	11.6	56.0
0.958000	46.8	Off	L1	19.7	9.2	56.0
1.022000	46.6	Off	L1	19.7	9.4	56.0
1.078000	43.7	Off	L1	19.7	12.3	56.0
1.126000	43.3	Off	L1	19.6	12.7	56.0
1.214000	44.3	Off	L1	19.6	11.7	56.0
1.278000	45.5	Off	L1	19.6	10.5	56.0
1.366000	45.2	Off	L1	19.6	10.8	56.0
1.414000	42.7	Off	L1	19.6	13.3	56.0
1.462000	42.4	Off	L1	19.7	13.6	56.0
1.550000	43.2	Off	L1	19.7	12.8	56.0

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Test Mode :	Mode 1	Temperature :	20~21 ℃		
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type	Bluetooth Link + WLAN (5GHz) Link + Came	ra + Earphone + USB Cable		
Function Type :	(Charging from Adapter)				



Final Result : QuasiPeak

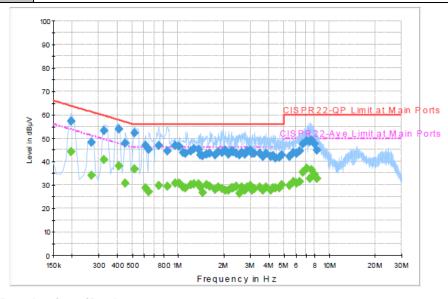
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.630000	43.4	Off	L1	19.7	12.6	56.0
1.766000	42.8	Off	L1	19.7	13.2	56.0
1.846000	44.1	Off	L1	19.7	11.9	56.0
1.974000	44.0	Off	L1	19.7	12.0	56.0
2.062000	44.7	Off	L1	19.6	11.3	56.0
2.150000	43.1	Off	L1	19.6	12.9	56.0
2.254000	44.4	Off	L1	19.7	11.6	56.0
2.318000	44.2	Off	L1	19.6	11.8	56.0
2.438000	43.6	Off	L1	19.6	12.4	56.0
2.542000	42.9	Off	L1	19.6	13.1	56.0
2.654000	43.9	Off	L1	19.6	12.1	56.0
2.758000	43.2	Off	L1	19.7	12.8	56.0
2.870000	44.3	Off	L1	19.6	11.7	56.0
3.006000	44.8	Off	L1	19.7	11.2	56.0
3.102000	43.5	Off	L1	19.7	12.5	56.0
3.214000	43.3	Off	L1	19.7	12.7	56.0
3.478000	43.4	Off	L1	19.7	12.6	56.0
3.662000	42.1	Off	L1	19.7	13.9	56.0
3.830000	43.6	Off	L1	19.7	12.4	56.0

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Test Mode :	Mode 1	Temperature :	20~21℃		
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type :	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable				
Function Type :	(Charging from Adapter)				



Final Result : QuasiPeak

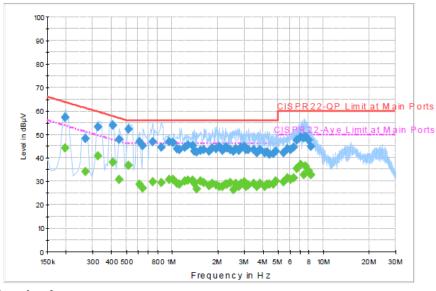
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
4.126000	42.0	Off	L1	19.7	14.0	56.0
4.278000	42.5	Off	L1	19.7	13.5	56.0
4.430000	41.4	Off	L1	19.7	14.6	56.0
4.686000	41.9	Off	L1	19.7	14.1	56.0
4.878000	42.9	Off	L1	19.8	13.1	56.0
5.494000	42.0	Off	L1	19.7	18.0	60.0
5.814000	43.7	Off	L1	19.7	16.3	60.0
6.094000	43.4	Off	L1	19.7	16.6	60.0
6.358000	44.5	Off	L1	19.8	15.5	60.0
6.702000	47.4	Off	L1	19.7	12.6	60.0
7.094000	48.7	Off	L1	19.8	11.3	60.0
7.406000	48.6	Off	L1	19.7	11.4	60.0
7.630000	49.2	Off	L1	19.7	10.8	60.0
7.982000	47.6	Off	L1	19.7	12.4	60.0
8.302000	44.9	Off	L1	19.7	15.1	60.0

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Test Mode :	Mode 1	Temperature :	20~21℃		
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Eunatian Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable				
Function Type :	(Charging from Adapter)				



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	44.3	Off	L1	19.7	9.4	53.7
0.270000	34.0	Off	L1	19.7	17.1	51.1
0.326000	40.7	Off	L1	19.7	8.9	49.6
0.406000	38.2	Off	L1	19.7	9.5	47.7
0.446000	30.7	Off	L1	19.6	16.2	46.9
0.518000	36.6	Off	L1	19.7	9.4	46.0
0.614000	28.7	Off	L1	19.6	17.3	46.0
0.638000	27.3	Off	L1	19.7	18.7	46.0
0.750000	29.6	Off	L1	19.7	16.4	46.0
0.854000	29.4	Off	L1	19.6	16.6	46.0
0.958000	30.8	Off	L1	19.7	15.2	46.0
1.022000	30.9	Off	L1	19.7	15.1	46.0
1.078000	28.9	Off	L1	19.7	17.1	46.0
1.126000	28.8	Off	L1	19.6	17.2	46.0
1.214000	30.3	Off	L1	19.6	15.7	46.0
1.278000	30.3	Off	L1	19.6	15.7	46.0
1.366000	30.3	Off	L1	19.6	15.7	46.0
1.414000	29.2	Off	L1	19.6	16.8	46.0
1.462000	26.8	Off	L1	19.7	19.2	46.0
1.550000	30.1	Off	L1	19.7	15.9	46.0

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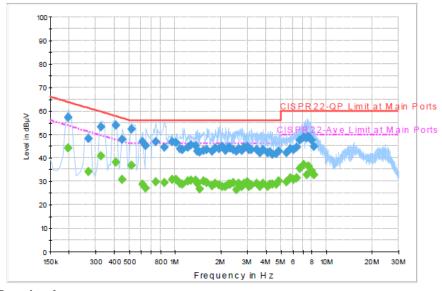


Test Mode: Mode 1
Temperature: 20~21°C

Test Engineer: Kai-Chun Chu
Relative Humidity: 53~55%

Test Voltage: 120Vac / 60Hz
Phase: Line

Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable (Charging from Adapter)



Final Result : Average

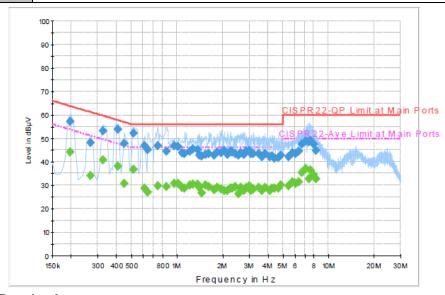
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.630000	29.4	Off	L1	19.7	16.6	46.0
1.766000	28.0	Off	L1	19.7	18.0	46.0
1.846000	29.1	Off	L1	19.7	16.9	46.0
1.974000	28.5	Off	L1	19.7	17.5	46.0
2.062000	27.7	Off	L1	19.6	18.3	46.0
2.150000	27.9	Off	L1	19.6	18.1	46.0
2.254000	28.9	Off	L1	19.7	17.1	46.0
2.318000	28.9	Off	L1	19.6	17.1	46.0
2.438000	29.4	Off	L1	19.6	16.6	46.0
2.542000	26.5	Off	L1	19.6	19.5	46.0
2.654000	29.1	Off	L1	19.6	16.9	46.0
2.758000	27.9	Off	L1	19.7	18.1	46.0
2.870000	29.0	Off	L1	19.6	17.0	46.0
3.006000	29.7	Off	L1	19.7	16.3	46.0
3.102000	27.8	Off	L1	19.7	18.2	46.0
3.214000	28.4	Off	L1	19.7	17.6	46.0
3.478000	29.2	Off	L1	19.7	16.8	46.0
3.662000	27.6	Off	L1	19.7	18.4	46.0
3.830000	29.1	Off	L1	19.7	16.9	46.0

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Test Mode :	Mode 1	Temperature :	20~21℃		
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable				
Function Type :	(Charging from Adapter)				



Final Result : Average

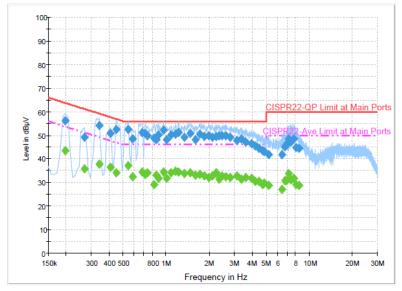
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
4.126000	27.9	Off	L1	19.7	18.1	46.0
4.278000	28.8	Off	L1	19.7	17.2	46.0
4.430000	28.8	Off	L1	19.7	17.2	46.0
4.686000	28.7	Off	L1	19.7	17.3	46.0
4.878000	30.2	Off	L1	19.8	15.8	46.0
5.494000	29.6	Off	L1	19.7	20.4	50.0
5.814000	31.3	Off	L1	19.7	18.7	50.0
6.094000	30.8	Off	L1	19.7	19.2	50.0
6.358000	31.5	Off	L1	19.8	18.5	50.0
6.702000	35.5	Off	L1	19.7	14.5	50.0
7.094000	37.1	Off	L1	19.8	12.9	50.0
7.406000	32.9	Off	L1	19.7	17.1	50.0
7.630000	36.3	Off	L1	19.7	13.7	50.0
7.982000	34.6	Off	L1	19.7	15.4	50.0
8.302000	32.6	Off	L1	19.7	17.4	50.0

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Test Mode :	Mode 1	Temperature :	20~21℃	
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Eunatian Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable			
Function Type :	(Charging from Adapter)			



Final Result : QuasiPeak

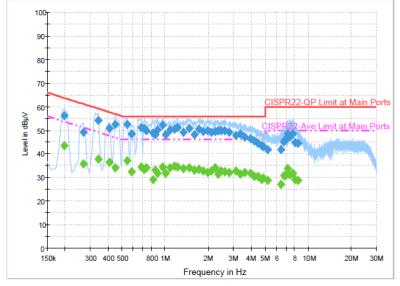
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	56.1	Off	N	19.7	7.6	63.7
0.270000	49.1	Off	N	19.7	12.0	61.1
0.342000	54.3	Off	N	19.7	4.9	59.2
0.406000	51.0	Off	N	19.7	6.7	57.7
0.446000	52.5	Off	N	19.6	4.4	56.9
0.542000	52.6	Off	N	19.7	3.4	56.0
0.582000	48.4	Off	N	19.7	7.6	56.0
0.678000	51.3	Off	N	19.6	4.7	56.0
0.710000	50.9	Off	N	19.6	5.1	56.0
0.742000	49.9	Off	N	19.6	6.1	56.0
0.822000	49.0	Off	N	19.6	7.0	56.0
0.854000	48.0	Off	N	19.6	8.0	56.0
0.886000	50.0	Off	N	19.7	6.0	56.0
0.958000	52.0	Off	N	19.7	4.0	56.0
1.006000	48.2	Off	N	19.7	7.8	56.0
1.086000	50.3	Off	N	19.6	5.7	56.0
1.158000	50.5	Off	N	19.7	5.5	56.0
1.214000	51.1	Off	N	19.6	4.9	56.0
1.342000	49.0	Off	N	19.6	7.0	56.0
1.470000	50.7	Off	N	19.7	5.3	56.0

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Test Mode :	Mode 1	Temperature :	20~21℃	
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Function Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable			
Function Type :	(Charging from Adapter)			



Final Result : QuasiPeak

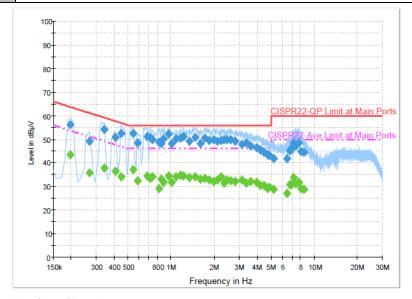
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.606000	48.2	Off	N	19.7	7.8	56.0
1.726000	50.6	Off	N	19.7	5.4	56.0
1.854000	49.4	Off	N	19.7	6.6	56.0
1.998000	49.8	Off	N	19.7	6.2	56.0
2.102000	49.3	Off	N	19.6	6.7	56.0
2.238000	49.6	Off	N	19.7	6.4	56.0
2.342000	49.8	Off	N	19.6	6.2	56.0
2.462000	49.7	Off	N	19.6	6.3	56.0
2.598000	49.8	Off	N	19.7	6.2	56.0
2.822000	49.0	Off	N	19.7	7.0	56.0
3.134000	48.0	Off	N	19.7	8.0	56.0
3.366000	48.4	Off	N	19.7	7.6	56.0
3.622000	47.2	Off	N	19.7	8.8	56.0
3.958000	46.6	Off	N	19.7	9.4	56.0
4.206000	45.5	Off	N	19.7	10.5	56.0
4.486000	44.6	Off	N	19.7	11.4	56.0
4.718000	43.3	Off	N	19.7	12.7	56.0
4.862000	43.3	Off	N	19.7	12.7	56.0
5.238000	41.7	Off	N	19.7	18.3	60.0

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Test Mode :	Mode 1	Temperature :	20~21℃		
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%		
Test Voltage :	120Vac / 60Hz	Phase :	Neutral		
Function Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable				
Function Type :	(Charging from Adapter)				



Final Result : QuasiPeak

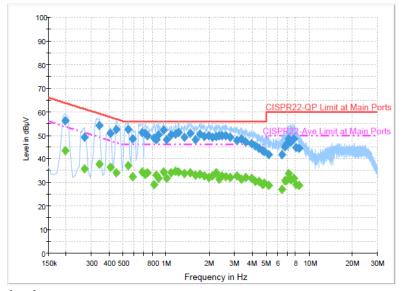
	•					
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
6.494000	41.7	Off	N	19.7	18.3	60.0
6.766000	45.1	Off	N	19.7	14.9	60.0
6.958000	46.2	Off	N	19.7	13.8	60.0
7.222000	48.6	Off	N	19.8	11.4	60.0
7.494000	47.1	Off	N	19.7	12.9	60.0
7.790000	48.6	Off	N	19.8	11.4	60.0
8.070000	44.9	Off	N	19.7	15.1	60.0
8.510000	44.3	Off	N	19.7	15.7	60.0

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Test Mode :	Mode 1	Temperature :	20~21℃	
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Function Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable			
Function Type :	(Charging from Adapter)			



Final Result : Average

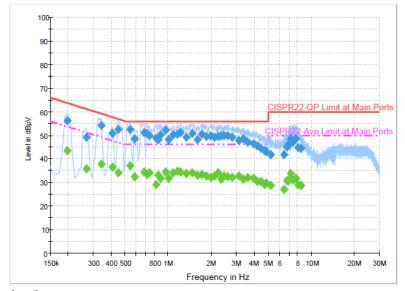
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	43.5	Off	N	19.7	10.2	53.7
0.270000	35.8	Off	N	19.7	15.3	51.1
0.342000	37.8	Off	N	19.7	11.4	49.2
0.406000	36.3	Off	N	19.7	11.4	47.7
0.446000	34.2	Off	N	19.6	12.7	46.9
0.542000	37.1	Off	N	19.7	8.9	46.0
0.582000	32.5	Off	N	19.7	13.5	46.0
0.678000	34.4	Off	N	19.6	11.6	46.0
0.710000	33.5	Off	N	19.6	12.5	46.0
0.742000	34.1	Off	N	19.6	11.9	46.0
0.822000	29.1	Off	N	19.6	16.9	46.0
0.854000	33.0	Off	N	19.6	13.0	46.0
0.886000	31.8	Off	N	19.7	14.2	46.0
0.958000	34.3	Off	N	19.7	11.7	46.0
1.006000	31.7	Off	N	19.7	14.3	46.0
1.086000	34.2	Off	N	19.6	11.8	46.0
1.158000	34.9	Off	N	19.7	11.1	46.0
1.214000	34.6	Off	N	19.6	11.4	46.0
1.342000	33.7	Off	N	19.6	12.3	46.0
1.470000	34.1	Off	N	19.7	11.9	46.0

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Test Mode :	Mode 1	Temperature :	20~21℃	
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Eurotion Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable			
Function Type :	(Charging from Adapter)			



Final Result : Average

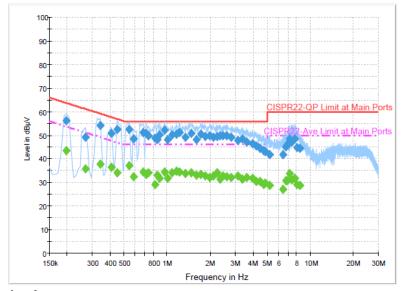
rinai Resuit				_		
Frequency	Average	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	I litter	Lille	(dB)	(dB)	(dBµV)
1.606000	33.0	Off	N	19.7	13.0	46.0
1.726000	33.5	Off	N	19.7	12.5	46.0
1.854000	32.9	Off	N	19.7	13.1	46.0
1.998000	32.2	Off	N	19.7	13.8	46.0
2.102000	32.8	Off	N	19.6	13.2	46.0
2.238000	34.1	Off	N	19.7	11.9	46.0
2.342000	31.5	Off	N	19.6	14.5	46.0
2.462000	32.9	Off	N	19.6	13.1	46.0
2.598000	32.5	Off	N	19.7	13.5	46.0
2.822000	32.2	Off	N	19.7	13.8	46.0
3.134000	32.9	Off	N	19.7	13.1	46.0
3.366000	31.3	Off	N	19.7	14.7	46.0
3.622000	32.1	Off	N	19.7	13.9	46.0
3.958000	31.9	Off	N	19.7	14.1	46.0
4.206000	30.5	Off	N	19.7	15.5	46.0
4.486000	30.4	Off	N	19.7	15.6	46.0
4.718000	29.2	Off	N	19.7	16.8	46.0
4.862000	29.6	Off	N	19.7	16.4	46.0
5.238000	28.9	Off	N	19.7	21.1	50.0

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Test Mode :	Mode 1	Temperature :	20~21 ℃	
Test Engineer :	Kai-Chun Chu	Relative Humidity :	53~55%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Function Type	Bluetooth Link + WLAN (5GHz) Link + Camera + Earphone + USB Cable			
Function Type :	(Charging from Adapter)			



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
6.494000	27.1	Off	N	19.7	22.9	50.0
6.766000	30.9	Off	N	19.7	19.1	50.0
6.958000	30.9	Off	N	19.7	19.1	50.0
7.222000	33.6	Off	N	19.8	16.4	50.0
7.494000	31.0	Off	N	19.7	19.0	50.0
7.790000	31.9	Off	N	19.8	18.1	50.0
8.070000	29.0	Off	N	19.7	21.0	50.0
8.510000	28.9	Off	N	19.7	21.1	50.0

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3.6 Frequency Stability Measurement

Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

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3.6.2 **Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- 1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- 2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- 3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



Test Result of Frequency Stability 3.6.5

Please refer to Appendix A.

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3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

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3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01 For CDD transmissions, directional gain is calculated as

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

 N_{SS} = the number of independent spatial streams of data;

 N_{ANT} = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

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The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	1.21	-2.02	2.75	2.75	0.00	0.00

Power Limit Reduction = DG(Power) - 6dBi, (min = 0)

 $PSD \ Limit \ Reduction = DG(PSD) - 6dBi, \ (min = 0)$

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Jul. 29, 2015	Nov. 25, 2015 ~ Dec. 17, 2015	Jul. 28, 2016	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 29, 2015	Nov. 25, 2015 ~ Dec. 17, 2015	Jul. 28, 2016	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 18, 2015	Nov. 25, 2015 ~ Dec. 17, 2015	Jun. 17, 2016	Conducted (TH02-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 08, 2015	Nov. 25, 2015 ~ Dec. 17, 2015	Sep. 07, 2016	Conducted (TH02-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 12, 2015	Nov. 25, 2015 ~ Dec. 17, 2015	Oct. 11, 2016	Conducted (TH02-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Sep. 01, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHZ	Sep. 24, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Sep. 23, 2016	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Feb. 02, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Feb. 01, 2016	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Dec. 16, 2015 ~ Jan. 06, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Dec. 16, 2015 ~ Jan. 06, 2016	N/A	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz to 1GHz	Nov. 17, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Nov. 16, 2016	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917057 6	18GHz ~ 40GHz	Apr. 20, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Apr. 19, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Dec. 16, 2015 ~ Jan. 06, 2016	Jun. 01, 2016	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 23, 2015	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Dec. 23, 2015	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Dec. 23, 2015	Dec. 01, 2016	Conduction (CO05-HY)

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5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence	2.26
of 95% (U = 2Uc(y))	2.20

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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.9
of 95% (U = 2Uc(y))	7.3

SPORTON INTERNATIONAL INC.

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Appendix A. Conducted Test Results

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