



# FCC RF Test Report

**APPLICANT** : MeiG Smart Technology Co., Ltd  
**EQUIPMENT** : SLM757  
**BRAND NAME** : MeiG Smart Technology Co., Ltd  
**MODEL NAME** : SLM757A  
**FCC ID** : 2APJ4-SLM757A  
**STANDARD** : 47 CFR Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Sep. 12, 2018 and testing was completed on Nov. 19, 2018. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.



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Approved by: James Huang / Manager

***Sporton International (Kunshan) Inc.***  
***No. 1098, Pengxi North Road, Kunshan Economic Development Zone,***  
***Jiangsu Province 215335, China***



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## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR891203D	Rev. 01	Initial issue of report	Nov. 29, 2018

## 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	$\leq 24$ dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	$\leq 11$ dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 4.57 dB at 5350.01 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 6.67 dB at 0.561 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

**MeiG Smart Technology Co., Ltd**  
3/F, No.88, Qinjiang Road, Xuhui District, Shanghai, China.

## 1.2 Manufacturer

**MeiG Smart Technology Co., Ltd**  
3/F, No.88, Qinjiang Road, Xuhui District, Shanghai, China.

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	SLM757
Brand Name	MeiG Smart Technology Co., Ltd
Model Name	SLM757A
FCC ID	2APJ4-SLM757A
EUT supports Radios application	WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 868621028935553/868621028935561 Conduction: 868621028936577/868621028936585 Radiation: 868621028936577/868621028936585
HW Version	SLM757PA_MB_V1.01_PCB
SW Version	SLM757PQA_EQ000_2EE0.1F7D165.5C3175F_18092 4_100_V01_T07
EUT Stage	Production Unit

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

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx/Rx Frequency Range</b>	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
<b>Maximum Output Power to Antenna</b>	<b>&lt;5180 MHz ~ 5240 MHz&gt;</b> 802.11a : 11.96 dBm / 0.0157 W 802.11n HT20 : 11.10 dBm / 0.0129 W 802.11n HT40 : 10.02 dBm / 0.0100 W <b>&lt;5260 MHz ~ 5320 MHz&gt;</b> 802.11a : 12.12 dBm / 0.0163 W 802.11n HT20 : 11.14 dBm / 0.0130 W 802.11n HT40 : 9.97 dBm / 0.0099 W <b>&lt;5500 MHz ~ 5700 MHz &gt;</b> 802.11a : 12.16 dBm / 0.0164 W 802.11n HT20 : 11.23 dBm / 0.0133 W 802.11n HT40 : 10.16 dBm / 0.0104 W
<b>99% Occupied Bandwidth</b>	<b>&lt;5180 MHz ~ 5240 MHz&gt;</b> 802.11a : 18.73 MHz 802.11n HT20 : 19.43 MHz 802.11n HT40 : 37.06 MHz <b>&lt;5260 MHz ~ 5320 MHz&gt;</b> 802.11a : 18.83 MHz 802.11n HT20 : 19.48 MHz 802.11n HT40 : 36.86 MHz <b>&lt;5500 MHz ~ 5700 MHz &gt;</b> 802.11a : 18.83 MHz 802.11n HT20 : 19.53 MHz 802.11n HT40 : 37.16 MHz
<b>Antenna Gain / Gain</b>	<b>&lt;5150 MHz ~ 5250 MHz&gt;</b> Fixed External Antenna with gain 1.00 dBi <b>&lt;5250 MHz ~ 5350 MHz&gt;</b> Fixed External Antenna with gain 1.00 dBi <b>&lt;5470 MHz ~ 5700 MHz&gt;</b> Fixed External Antenna with gain 1.00 dBi
<b>Type of Modulation</b>	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

## 1.5 Modification of EUT

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



## 1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

<b>Test Site</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-KS CO01-KS 03CH06-KS	CN5013	630927

## 1.7 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. 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: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the worst cases were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	-	-	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	-	-	128	5640

**Note:** The above Frequency and Channel in "\*" were 802.11n HT40.



## 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link(5G) + Adapter
Remark: For Radiated Test Cases, The tests were performed with Adapter	

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

## 2.3 Connection Diagram of Test System



## 2.4 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-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
5.	WLAN Antenna	N/A	N/A	N/A	N/A	N/A
6.	Test jig	N/A	N/A	N/A	N/A	N/A
7.	Adapter	N/A	N/A	N/A	Unshielded, 1.2 m	N/A



## 2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

## 2.6 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

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 6.8dB

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.8 \text{ (dB)}\end{aligned}$$

### 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.

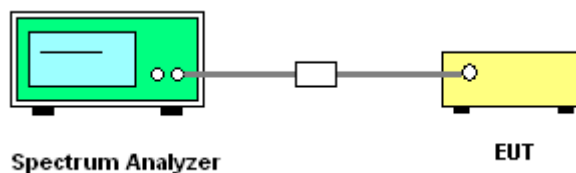
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

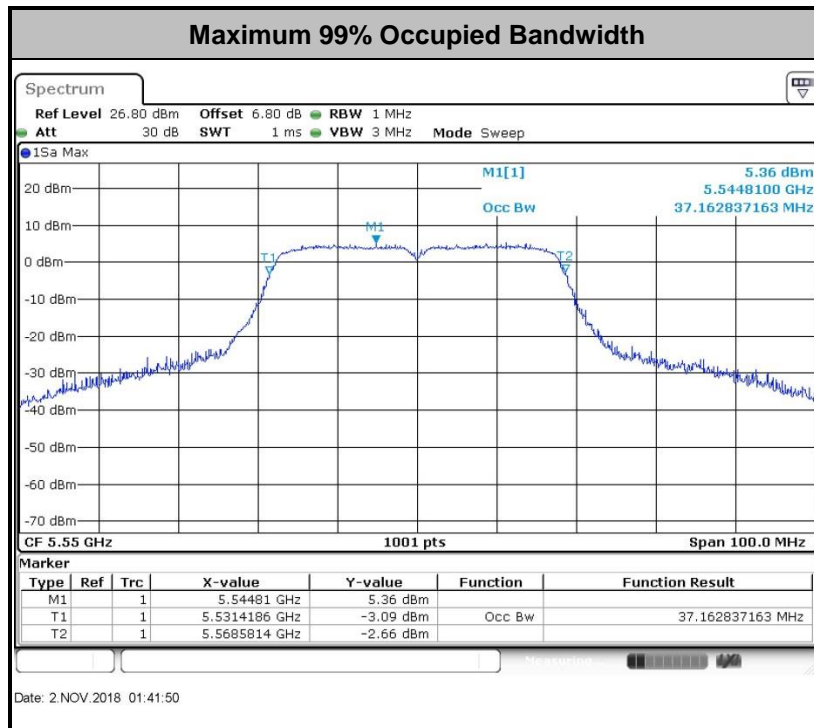
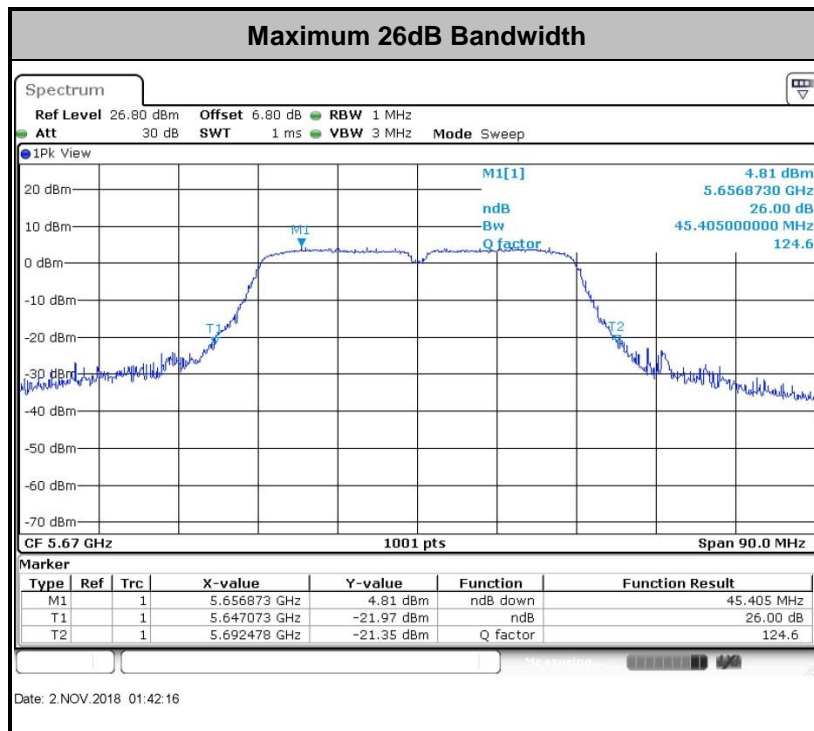
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 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.



## **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.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm  $10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

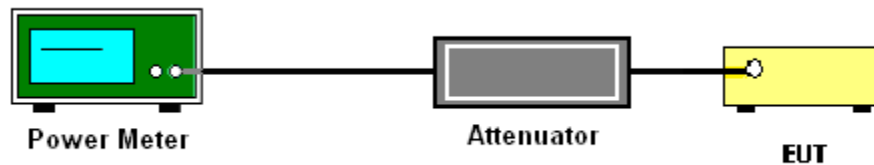
### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.



### **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.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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 v02r01.

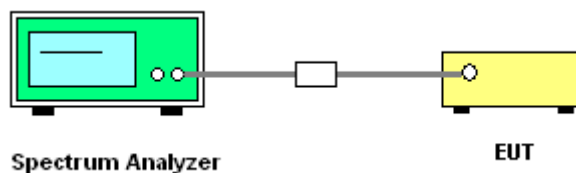
Section F) Maximum power spectral density.

#### # Method SA-2 #

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

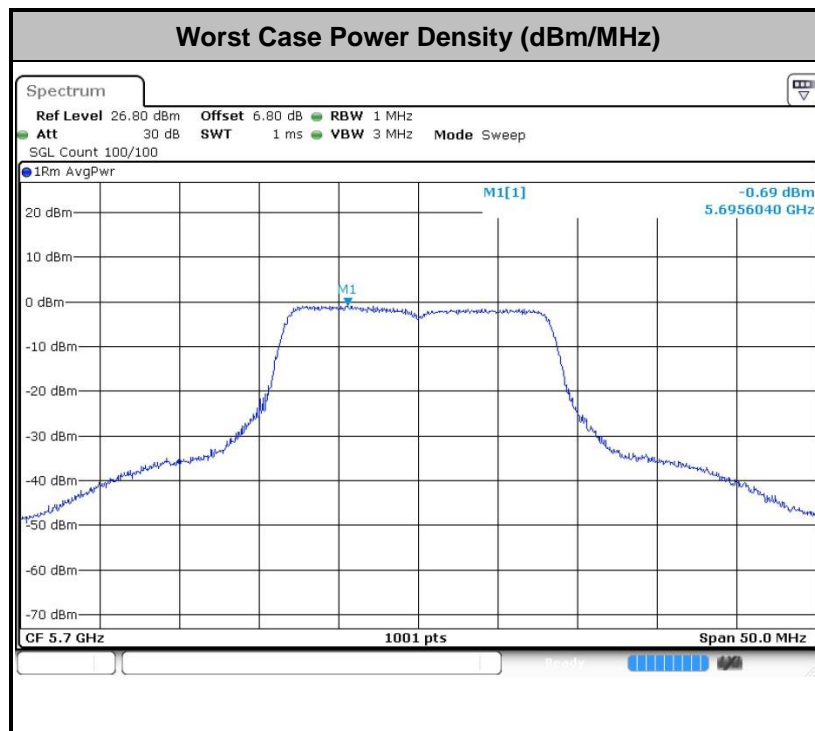
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW  $\geq$  3 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(1/x)$ , 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.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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

### 3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 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.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/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

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

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

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

$E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dBμV/m

$d_{\text{Meas}}$  is the measurement distance, in m

### 3.4.2 Measuring Instruments

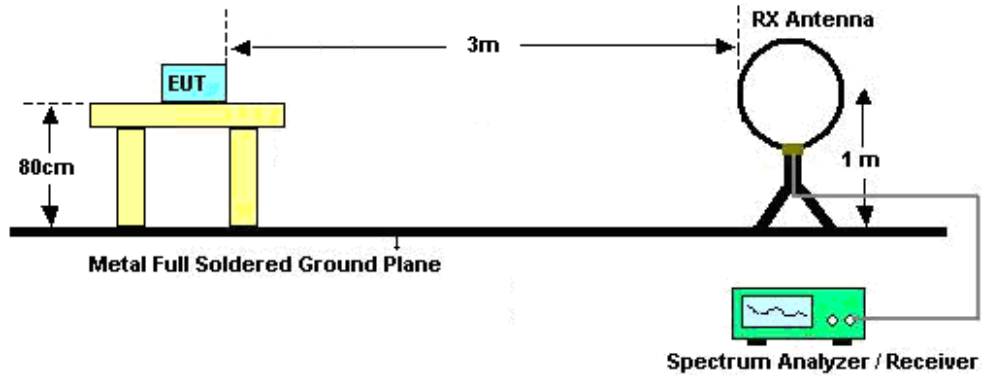
The measuring equipment is listed in the section 4 of this test report.

### 3.4.3 Test Procedures

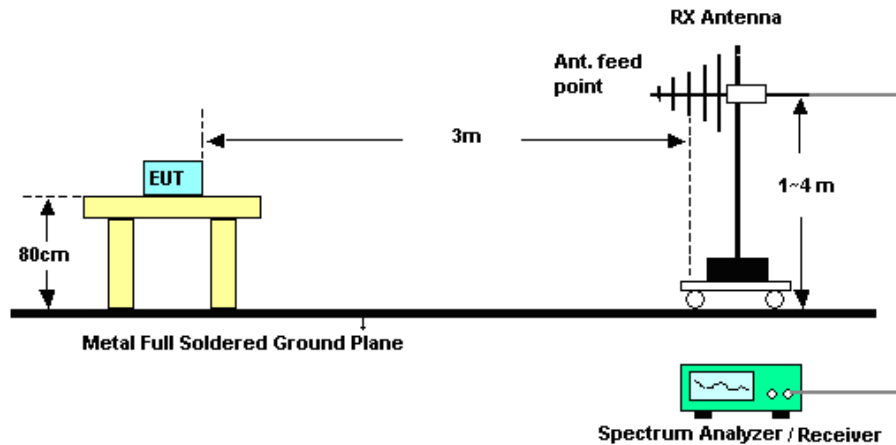
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  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  $\geq$  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.
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.
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.

### 3.4.4 Test Setup

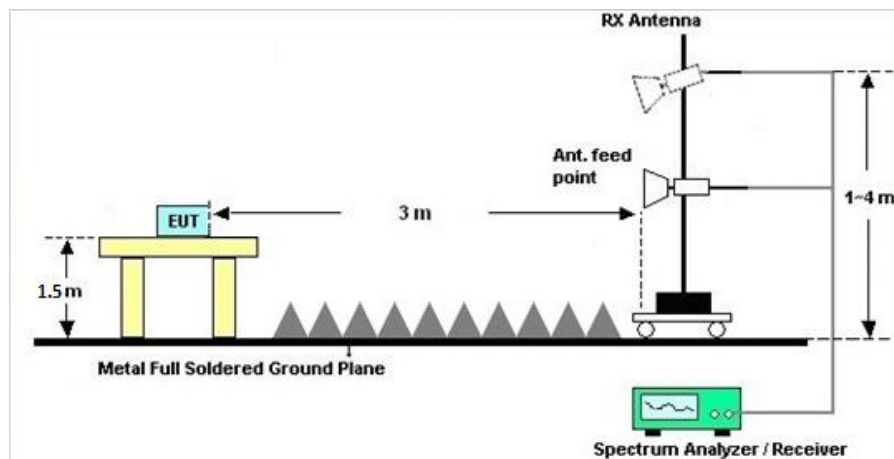
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.4.5 Test Results of Radiated Spurious 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 was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

**3.4.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix C.

**3.4.7 Duty Cycle**

Please refer to Appendix D.

**3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)**

Please refer to Appendix C.

## 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.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	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

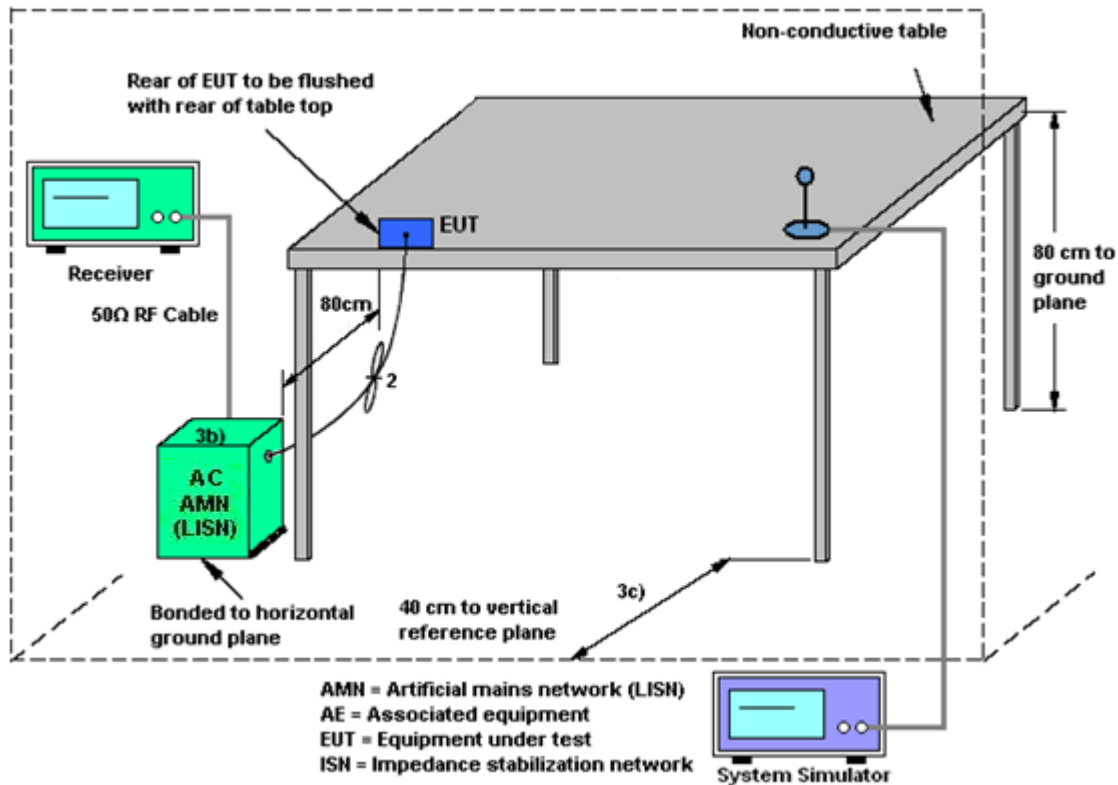
The measuring equipment is listed in the section 4 of this test report.

### 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.



### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Automatically Discontinue Transmission**

### **3.6.1 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.

### **3.6.2 Measuring Instruments**

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

### **3.6.3 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.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

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.

### **3.7.2 Antenna Anti-Replacement Construction**

Non-standard antenna connector is used.

### **3.7.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Nov. 02, 2018	Aug. 06, 2019	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Oct. 11, 2018	Nov. 02, 2018	Oct. 10, 2019	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 18, 2018	Nov. 02, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 18, 2018	Nov. 02, 2018	Jan. 17, 2019	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz; Max 30dBm	Oct. 12, 2018	Nov. 05, 2018~Nov. 08, 2018	Oct. 11, 2019	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jun. 25, 2018	Nov. 05, 2018~Nov. 08, 2018	Jun. 24, 2019	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 19, 2018	Nov. 05, 2018~Nov. 08, 2018	Oct. 18, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Jan. 29, 2018	Nov. 05, 2018~Nov. 08, 2018	Jan. 28, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Nov. 05, 2018~Nov. 08, 2018	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Nov. 05, 2018~Nov. 08, 2018	Feb. 06, 2019	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Nov. 05, 2018~Nov. 08, 2018	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Feb. 08, 2018	Nov. 05, 2018~Nov. 08, 2018	Feb. 07, 2019	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Nov. 05, 2018~Nov. 08, 2018	Apr. 16, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Dec. 16, 2017	Nov. 05, 2018~Nov. 08, 2018	Dec. 15, 2018	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 05, 2018~Nov. 08, 2018	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 05, 2018~Nov. 08, 2018	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 05, 2018~Nov. 08, 2018	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 19, 2018	Nov. 19, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 12, 2018	Nov. 19, 2018	Oct. 11, 2019	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Nov. 23, 2017	Nov. 19, 2018	Nov. 22, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2018	Nov. 19, 2018	Oct. 11, 2019	Conduction (CO01-KS)

NCR: No Calibration Required



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.9 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0 dB
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## **Appendix A. Conducted Test Results**

Test Engineer:	Orion Li	Temperature:	21~25	°C
Test Date:	2018/11/2	Relative Humidity:	49~51	%

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band I										
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	18.68	23.38	-	22.71		
11a	6Mbps	1	44	5220	18.63	23.48	-	22.70		
11a	6Mbps	1	48	5240	18.73	23.63	-	22.73		
HT20	MCS0	1	36	5180	19.33	23.78	-	22.86		
HT20	MCS0	1	44	5220	19.43	23.68	-	22.88		
HT20	MCS0	1	48	5240	19.33	23.93	-	22.86		
HT40	MCS0	1	38	5190	36.96	44.51	-	23.01		
HT40	MCS0	1	46	5230	37.06	45.32	-	23.01		



**TEST RESULTS DATA**  
**Average Power Table**

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.58	11.96	24.00	1.00		Pass
11a	6Mbps	1	44	5220	0.58	11.13	24.00	1.00		Pass
11a	6Mbps	1	48	5240	0.58	10.87	24.00	1.00		Pass
HT20	MCS0	1	36	5180	0.62	11.10	24.00	1.00		Pass
HT20	MCS0	1	44	5220	0.62	10.18	24.00	1.00		Pass
HT20	MCS0	1	48	5240	0.62	10.00	24.00	1.00		Pass
HT40	MCS0	1	38	5190	0.64	10.02	24.00	1.00		Pass
HT40	MCS0	1	46	5230	0.64	9.59	24.00	1.00		Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.58	-0.14	11.00	1.00		Pass
11a	6Mbps	1	44	5220	0.58	-0.63	11.00	1.00		Pass
11a	6Mbps	1	48	5240	0.58	-0.94	11.00	1.00		Pass
HT20	MCS0	1	36	5180	0.62	-1.08	11.00	1.00		Pass
HT20	MCS0	1	44	5220	0.62	-1.98	11.00	1.00		Pass
HT20	MCS0	1	48	5240	0.62	-2.01	11.00	1.00		Pass
HT40	MCS0	1	38	5190	0.64	-5.14	11.00	1.00		Pass
HT40	MCS0	1	46	5230	0.64	-5.48	11.00	1.00		Pass

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	18.68	23.73	23.71	29.71	23.98	
11a	6M bps	1	60	5300	18.63	23.43	23.70	29.70	23.98	
11a	6M bps	1	64	5320	18.83	23.73	23.75	29.75	23.98	
HT20	MCS 0	1	52	5260	19.48	23.78	23.90	29.90	23.98	
HT20	MCS 0	1	60	5300	19.38	23.78	23.87	29.87	23.98	
HT20	MCS 0	1	64	5320	19.43	23.68	23.88	29.88	23.98	
HT40	MCS 0	1	54	5270	36.76	44.60	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.86	45.14	23.98	30.00	23.98	

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.58	11.81	23.98	1.00	26.99	Pass
11a	6M bps	1	60	5300	0.58	11.94	23.98	1.00	26.99	Pass
11a	6M bps	1	64	5320	0.58	12.12	23.98	1.00	26.99	Pass
HT20	MCS 0	1	52	5260	0.62	11.01	23.98	1.00	26.99	Pass
HT20	MCS 0	1	60	5300	0.62	11.06	23.98	1.00	26.99	Pass
HT20	MCS 0	1	64	5320	0.62	11.14	23.98	1.00	26.99	Pass
HT40	MCS 0	1	54	5270	0.64	9.97	23.98	1.00	26.99	Pass
HT40	MCS 0	1	62	5310	0.64	9.90	23.98	1.00	26.99	Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.58	-0.81	11.00	1.00		Pass
11a	6M bps	1	60	5300	0.58	-0.35	11.00	1.00		Pass
11a	6M bps	1	64	5320	0.58	-0.16	11.00	1.00		Pass
HT20	MCS 0	1	52	5260	0.62	-1.73	11.00	1.00		Pass
HT20	MCS 0	1	60	5300	0.62	-1.87	11.00	1.00		Pass
HT20	MCS 0	1	64	5320	0.62	-1.39	11.00	1.00		Pass
HT40	MCS 0	1	54	5270	0.64	-5.60	11.00	1.00		Pass
HT40	MCS 0	1	62	5310	0.64	-5.53	11.00	1.00		Pass

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	18.78	23.78	23.74	29.74	23.98	
11a	6M bps	1	116	5580	18.83	23.63	23.75	29.75	23.98	
11a	6M bps	1	140	5700	18.83	23.98	23.75	29.75	23.98	
HT20	MCS 0	1	100	5500	19.48	23.88	23.90	29.90	23.98	
HT20	MCS 0	1	116	5580	19.48	23.83	23.90	29.90	23.98	
HT20	MCS 0	1	140	5700	19.53	24.18	23.91	29.91	23.98	
HT40	MCS 0	1	102	5510	36.86	45.41	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	37.16	44.96	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	37.06	45.41	23.98	30.00	23.98	

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.58	11.15	23.98	1.00	26.99	Pass
11a	6M bps	1	116	5580	0.58	11.63	23.98	1.00	26.99	Pass
11a	6M bps	1	140	5700	0.58	12.16	23.98	1.00	26.99	Pass
HT20	MCS 0	1	100	5500	0.62	10.26	23.98	1.00	26.99	Pass
HT20	MCS 0	1	116	5580	0.62	10.77	23.98	1.00	26.99	Pass
HT20	MCS 0	1	140	5700	0.62	11.23	23.98	1.00	26.99	Pass
HT40	MCS 0	1	102	5510	0.64	9.73	23.98	1.00	26.99	Pass
HT40	MCS 0	1	110	5550	0.64	10.16	23.98	1.00	26.99	Pass
HT40	MCS 0	1	134	5670	0.64	10.07	23.98	1.00	26.99	Pass

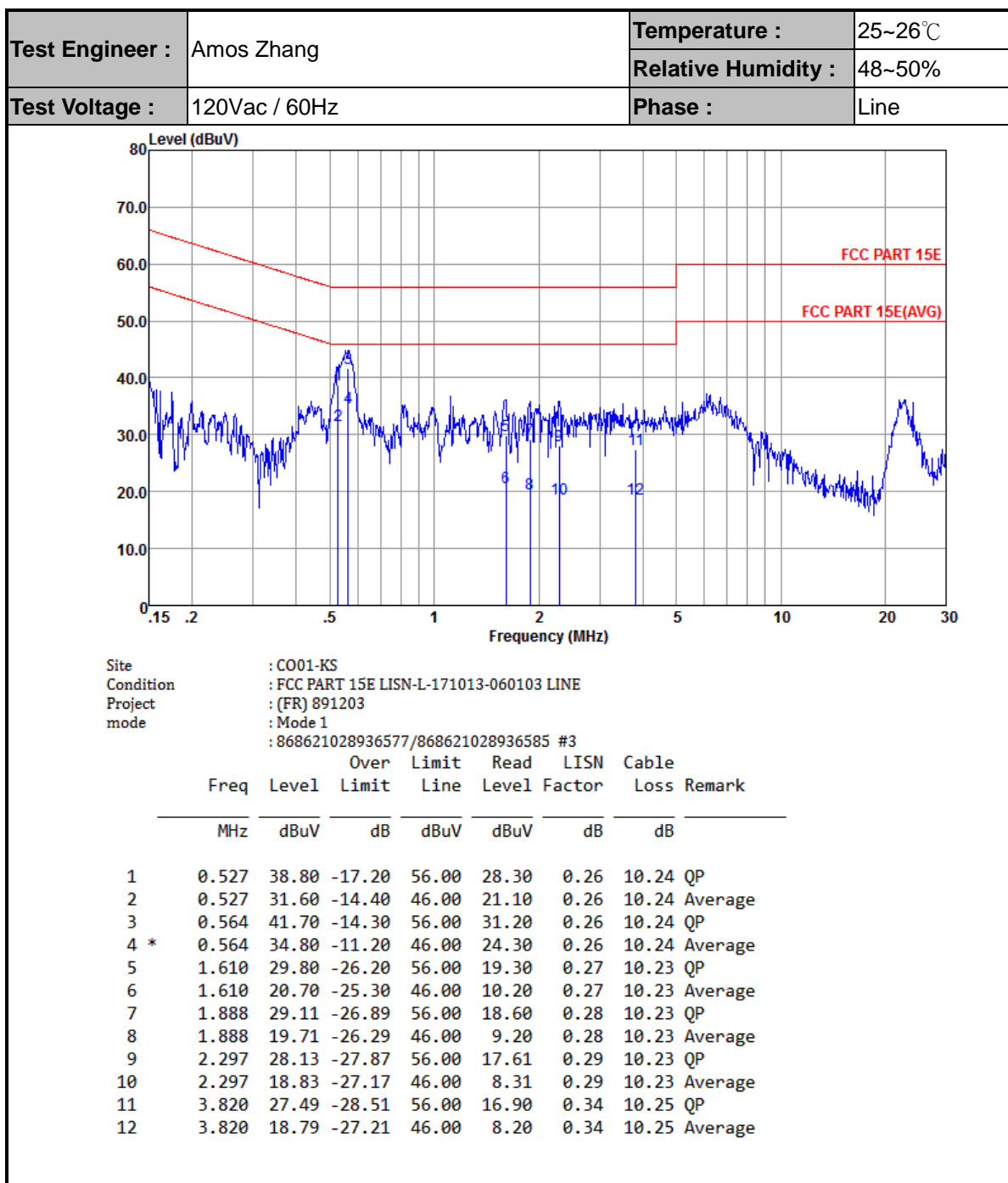
**TEST RESULTS DATA**  
**Power Spectral Density**

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.58	-1.33	11.00	1.00		Pass
11a	6M bps	1	116	5580	0.58	-1.02	11.00	1.00		Pass
11a	6M bps	1	140	5700	0.58	-0.11	11.00	1.00		Pass
HT20	MCS 0	1	100	5500	0.62	-2.43	11.00	1.00		Pass
HT20	MCS 0	1	116	5580	0.62	-2.24	11.00	1.00		Pass
HT20	MCS 0	1	140	5700	0.62	-1.47	11.00	1.00		Pass
HT40	MCS 0	1	102	5510	0.64	-5.33	11.00	1.00		Pass
HT40	MCS 0	1	110	5550	0.64	-5.01	11.00	1.00		Pass
HT40	MCS 0	1	134	5670	0.64	-5.23	11.00	1.00		Pass



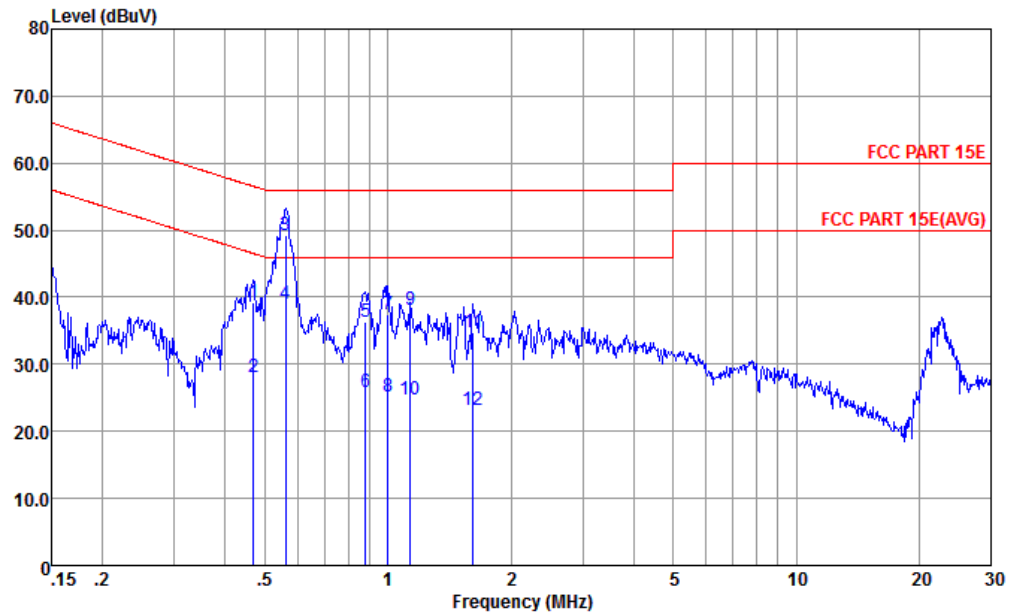


## Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25~26°C
		Relative Humidity :	48~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS  
Condition : FCC PART 15E LISN-N-171013-060103 NEUTRAL  
Project : (FR) 891203  
mode : Mode 1  
: 868621028936577/868621028936585 #3

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
1	0.469	39.13	-17.41	56.54	28.60	0.29	10.24	QP
2	0.469	28.13	-18.41	46.54	17.60	0.29	10.24	Average
3 *	0.561	49.33	-6.67	56.00	38.80	0.29	10.24	QP
4	0.561	39.03	-6.97	46.00	28.50	0.29	10.24	Average
5	0.880	36.34	-19.66	56.00	25.79	0.31	10.24	QP
6	0.880	25.74	-20.26	46.00	15.19	0.31	10.24	Average
7	1.000	37.34	-18.66	56.00	26.80	0.31	10.23	QP
8	1.000	25.14	-20.86	46.00	14.60	0.31	10.23	Average
9	1.135	38.14	-17.86	56.00	27.60	0.31	10.23	QP
10	1.135	24.74	-21.26	46.00	14.20	0.31	10.23	Average
11	1.619	34.75	-21.25	56.00	24.20	0.32	10.23	QP
12	1.619	23.15	-22.85	46.00	12.60	0.32	10.23	Average



## Appendix C. Radiated Spurious Emission

### Band 1 - 5150~5250MHz

#### WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 36 5180MHz		5148.32	51.03	-22.97	74	43.7	34.3	8.15	35.12	153	53	P	H
		5127.36	41.95	-12.05	54	34.65	34.27	8.15	35.12	153	53	A	H
	*	5184	101.4	-	-	93.99	34.37	8.16	35.12	153	53	P	H
		5184	93.42	-	-	86.01	34.37	8.16	35.12	153	53	A	H
		5125.28	50.92	-23.08	74	43.62	34.27	8.15	35.12	254	81	P	V
		5149.76	40.66	-13.34	54	33.33	34.3	8.15	35.12	254	81	A	V
	*	5184	96.84	-	-	89.43	34.37	8.16	35.12	254	81	P	V
		5184	88.84	-	-	81.43	34.37	8.16	35.12	254	81	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	40.36	-27.94	68.3	56.06	37.67	11.7	65.07	100	360	P	H
		10360	40.51	-27.79	68.3	56.21	37.67	11.7	65.07	100	360	P	V
802.11a CH 44 5220MHz		10440	41.82	-26.48	68.3	57.45	37.7	11.76	65.09	100	360	P	H
		10440	41.02	-27.28	68.3	56.65	37.7	11.76	65.09	100	360	P	V
802.11a CH 48 5240MHz		10480	41.43	-26.87	68.3	57.05	37.7	11.79	65.11	100	360	P	H
		10480	40.51	-27.79	68.3	56.13	37.7	11.79	65.11	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 36 5180MHz		5127.04	51.57	-22.43	74	44.27	34.27	8.15	35.12	186	360	P	H
		5128	41.96	-12.04	54	34.66	34.27	8.15	35.12	186	360	A	H
	*	5186	100.55	-	-	93.14	34.37	8.16	35.12	186	360	P	H
		5186	92.24	-	-	84.83	34.37	8.16	35.12	186	360	A	H
		5122.56	50.8	-23.2	74	43.5	34.27	8.15	35.12	265	273	P	V
		5128.48	41	-13	54	33.7	34.27	8.15	35.12	265	273	A	V
	*	5186	97.5	-	-	90.09	34.37	8.16	35.12	265	273	P	V
		5186	89.14	-	-	81.73	34.37	8.16	35.12	265	273	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	40.29	-28.01	68.3	55.99	37.67	11.7	65.07	100	360	P	H
		10360	40.5	-27.8	68.3	56.2	37.67	11.7	65.07	100	360	P	V
802.11n HT20 CH 44 5220MHz		10440	41.71	-26.59	68.3	57.34	37.7	11.76	65.09	100	360	P	H
		10440	42	-26.3	68.3	57.63	37.7	11.76	65.09	100	360	P	V
802.11n HT20 CH 48 5240MHz		10480	41.67	-26.63	68.3	57.29	37.7	11.79	65.11	100	360	P	H
		10480	41.98	-26.32	68.3	57.6	37.7	11.79	65.11	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5144.16	55.56	-18.44	74	48.23	34.3	8.15	35.12	166	345	P	H
		5149.76	44.93	-9.07	54	37.6	34.3	8.15	35.12	166	345	A	H
	*	5204	97.85	-	-	90.41	34.4	8.17	35.13	166	345	P	H
		5204	90.09	-	-	82.65	34.4	8.17	35.13	166	345	A	H
		5390.46	48.7	-25.3	74	40.88	34.67	8.31	35.16	166	345	P	H
		5395.86	39.6	-14.4	54	31.75	34.7	8.31	35.16	166	345	A	H
		5141.12	51.95	-22.05	74	44.62	34.3	8.15	35.12	295	87	P	V
		5149.12	41.52	-12.48	54	34.19	34.3	8.15	35.12	295	87	A	V
	*	5192	92.31	-	-	84.87	34.4	8.16	35.12	295	87	P	V
		5192	84.05	-	-	76.61	34.4	8.16	35.12	295	87	A	V
		5365.8	48.64	-25.36	74	40.88	34.63	8.28	35.15	295	87	P	V
		5392.26	39.49	-14.51	54	31.67	34.67	8.31	35.16	295	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	40.22	-28.08	68.3	55.89	37.68	11.73	65.08	100	360	P	H
		10380	40.89	-27.41	68.3	56.56	37.68	11.73	65.08	100	360	P	V
802.11n HT40 CH 46 5230MHz		10460	41.15	-27.15	68.3	56.76	37.7	11.79	65.1	100	360	P	H
		10460	41.93	-26.37	68.3	57.54	37.7	11.79	65.1	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	(dBμV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11a CH 64 5320MHz	*	5314	102.11	-	-	94.41	34.6	8.25	35.15	318	51	P	H
		5314	94.75	-	-	87.05	34.6	8.25	35.15	318	51	A	H
		5350	52.92	-21.08	74	45.19	34.6	8.28	35.15	318	51	P	H
		5350.01	41.79	-12.21	54	34.06	34.6	8.28	35.15	318	51	A	H
	*	5324	96.99	-	-	89.29	34.6	8.25	35.15	299	58	P	V
		5324	89.41	-	-	81.71	34.6	8.25	35.15	299	58	A	V
		5381.4	49.18	-24.82	74	41.39	34.67	8.28	35.16	299	58	P	V
		5350.01	39.93	-14.07	54	32.2	34.6	8.28	35.15	299	58	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	42.22	-26.08	68.3	57.78	37.73	11.83	65.12	100	360	P	H
		10520	41.46	-26.84	68.3	57.02	37.73	11.83	65.12	100	360	P	V
802.11a CH 60 5300MHz		10600	41.68	-26.62	68.3	57.04	37.9	11.89	65.15	100	360	P	H
		10600	41.07	-27.23	68.3	56.43	37.9	11.89	65.15	100	360	P	V
802.11a CH 64 5320MHz		10640	40.9	-33.1	74	56.24	37.9	11.92	65.16	100	360	P	H
		10640	43.5	-30.5	74	58.84	37.9	11.92	65.16	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 64 5320MHz	*	5322	103.26	-	-	95.56	34.6	8.25	35.15	171	360	P	H
		5322	95.89	-	-	88.19	34.6	8.25	35.15	171	360	A	H
		5350.7	56.03	-17.97	74	48.3	34.6	8.28	35.15	171	360	P	H
		5371.7	44.57	-9.43	54	36.81	34.63	8.28	35.15	171	360	A	H
	*	5314	98.67	-	-	90.97	34.6	8.25	35.15	280	276	P	V
		5314	91	-	-	83.3	34.6	8.25	35.15	280	276	A	V
		5350.7	49.75	-24.25	74	42.02	34.6	8.28	35.15	280	276	P	V
		5371.7	41.41	-12.59	54	33.65	34.63	8.28	35.15	280	276	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2 5250~5350MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	40.2	-28.1	68.3	55.76	37.73	11.83	65.12	100	360	P	H
		10520	40.58	-27.72	68.3	56.14	37.73	11.83	65.12	100	360	P	V
802.11n HT20 CH 60 5300MHz		10600	41.85	-26.45	68.3	57.21	37.9	11.89	65.15	100	360	P	H
		10600	42.87	-25.43	68.3	58.23	37.9	11.89	65.15	100	360	P	V
802.11n HT20 CH 64 5320MHz		10640	41.1	-32.9	74	56.44	37.9	11.92	65.16	100	360	P	H
		10640	41.35	-32.65	74	56.69	37.9	11.92	65.16	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 62 5310MHz		5116.48	50.64	-23.36	74	43.38	34.23	8.15	35.12	136	0	P	H
		5124.8	40.49	-13.51	54	33.19	34.27	8.15	35.12	136	0	A	H
	*	5320	97.94	-	-	90.24	34.6	8.25	35.15	136	0	P	H
		5320	90.64	-	-	82.94	34.6	8.25	35.15	136	0	A	H
		5350.8	59.37	-14.63	74	51.64	34.6	8.28	35.15	136	0	P	H
	!	5350.01	49.43	-4.57	54	41.7	34.6	8.28	35.15	136	0	A	H
		5133.44	50.66	-23.34	74	43.36	34.27	8.15	35.12	286	275	P	V
		5131.52	40.41	-13.59	54	33.11	34.27	8.15	35.12	286	275	A	V
	*	5302	94.83	-	-	87.15	34.6	8.23	35.15	286	275	P	V
		5302	87.07	-	-	79.39	34.6	8.23	35.15	286	275	A	V
		5350.1	54.49	-19.51	74	46.76	34.6	8.28	35.15	286	275	P	V
		5350.01	44.91	-9.09	54	37.18	34.6	8.28	35.15	286	275	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 2 5250~5350MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	39.94	-28.36	68.3	55.44	37.77	11.86	65.13	100	360	P	H
		10540	40.78	-27.52	68.3	56.28	37.77	11.86	65.13	100	360	P	V
802.11n HT40 CH 62 5310MHz		10620	41.32	-32.68	74	56.65	37.9	11.92	65.15	100	360	P	H
		10620	40.23	-33.77	74	55.56	37.9	11.92	65.15	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 100 5500MHz		5447.6	50.26	-23.74	74	42.51	34.6	8.32	35.17	128	359	P	H
		5469.68	53.31	-14.99	68.3	45.56	34.6	8.32	35.17	128	359	P	H
		5447.76	42.57	-11.43	54	34.82	34.6	8.32	35.17	128	359	A	H
	*	5496	101.77	-	-	94.02	34.6	8.32	35.17	128	359	P	H
		5496	94.29	-	-	86.54	34.6	8.32	35.17	128	359	A	H
		5436.56	50.04	-23.96	74	42.26	34.63	8.32	35.17	336	274	P	V
		5468.72	49.58	-18.72	68.3	41.83	34.6	8.32	35.17	336	274	P	V
		5446.64	40.57	-13.43	54	32.82	34.6	8.32	35.17	336	274	A	V
	*	5496	96.59	-	-	88.84	34.6	8.32	35.17	336	274	P	V
		5496	89.2	-	-	81.45	34.6	8.32	35.17	336	274	A	V
802.11a CH 140 5700MHz	*	5702	103.73	-	-	95.85	34.63	8.42	35.17	113	355	P	H
		5702	95.25	-	-	87.37	34.63	8.42	35.17	113	355	A	H
		5725.48	59.82	-8.48	68.3	51.89	34.67	8.42	35.16	113	355	P	H
	*	5704	102.14	-	-	94.26	34.63	8.42	35.17	296	274	P	V
		5704	93.7	-	-	85.82	34.63	8.42	35.17	296	274	A	V
		5725.8	58.05	-10.25	68.3	50.12	34.67	8.42	35.16	296	274	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	41.57	-32.43	74	56.52	38.1	12.21	65.26	100	360	P	H
		11000	42.48	-31.52	74	57.43	38.1	12.21	65.26	100	360	P	V
802.11a CH 116 5580MHz		11160	41.72	-32.28	74	56.59	38.1	12.35	65.32	100	360	P	H
		11160	42.12	-31.88	74	56.99	38.1	12.35	65.32	100	360	P	V
802.11a CH 140 5700MHz		11400	42.72	-31.28	74	57.39	38.2	12.52	65.39	100	360	P	H
		11400	42.11	-31.89	74	56.78	38.2	12.52	65.39	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
<b>802.11n HT20 CH 100 5500MHz</b>		5447.76	50.85	-23.15	74	43.1	34.6	8.32	35.17	123	360	P	H
		5468.72	50.72	-17.58	68.3	42.97	34.6	8.32	35.17	123	360	P	H
		5448.4	43.34	-10.66	54	35.59	34.6	8.32	35.17	123	360	A	H
	*	5492	100.25	-	-	92.5	34.6	8.32	35.17	123	360	P	H
		5492	92.95	-	-	85.2	34.6	8.32	35.17	123	360	A	H
		5451.12	49.42	-24.58	74	41.67	34.6	8.32	35.17	100	210	P	V
		5460.24	48.65	-19.65	68.3	40.9	34.6	8.32	35.17	100	210	P	V
		5448.24	40.55	-13.45	54	32.8	34.6	8.32	35.17	100	210	A	V
	*	5506	93.9	-	-	86.15	34.6	8.33	35.18	100	210	P	V
		5506	86.41	-	-	78.66	34.6	8.33	35.18	100	210	A	V
<b>802.11n HT20 CH 140 5700MHz</b>	*	5698	101.57	-	-	93.74	34.6	8.4	35.17	274	354	P	H
		5698	92.81	-	-	84.98	34.6	8.4	35.17	274	354	A	H
		5725.56	60.16	-8.14	68.3	52.23	34.67	8.42	35.16	274	354	P	H
	*	5696	96.78	-	-	88.95	34.6	8.4	35.17	112	212	P	V
		5696	88.16	-	-	80.33	34.6	8.4	35.17	112	212	A	V
		5725.64	53.87	-14.43	68.3	45.94	34.67	8.42	35.16	112	212	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20		11000	42.68	-31.32	74	57.63	38.1	12.21	65.26	100	360	P	H
CH 100 5500MHz		11000	42.21	-31.79	74	57.16	38.1	12.21	65.26	100	360	P	V
802.11n HT20		11160	41.46	-32.54	74	56.33	38.1	12.35	65.32	100	360	P	H
CH 116 5580MHz		11160	43.17	-30.83	74	58.04	38.1	12.35	65.32	100	360	P	V
802.11n HT20		11400	42.45	-31.55	74	57.12	38.2	12.52	65.39	100	360	P	H
CH 140 5700MHz		11400	43.13	-30.87	74	57.8	38.2	12.52	65.39	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
<b>802.11n HT40 CH 102 5510MHz</b>		5457.84	59.55	-14.45	74	51.8	34.6	8.32	35.17	113	32	P	H
	!	5466.96	63.82	-4.48	68.3	56.07	34.6	8.32	35.17	113	32	P	H
		5459.76	45.52	-8.48	54	37.77	34.6	8.32	35.17	113	32	A	H
	*	5502	98.73	-	-	90.98	34.6	8.32	35.17	113	32	P	H
		5502	91.68	-	-	83.93	34.6	8.32	35.17	113	32	A	H
		5753.4	50.23	-18.07	68.3	42.2	34.73	8.45	35.15	113	32	P	H
		5456.4	52.89	-21.11	74	45.14	34.6	8.32	35.17	267	273	P	V
	!	5469.2	62.66	-5.64	68.3	54.91	34.6	8.32	35.17	267	273	P	V
		5459.99	44.26	-9.74	54	36.51	34.6	8.32	35.17	267	273	A	V
	*	5522	97.07	-	-	89.35	34.57	8.33	35.18	267	273	P	V
		5522	89.84	-	-	82.12	34.57	8.33	35.18	267	273	A	V
		5759.64	50.35	-17.95	68.3	42.32	34.73	8.45	35.15	267	273	P	V
<b>802.11n HT40 CH 134 5670MHz</b>		5362.48	48.98	-25.02	74	41.22	34.63	8.28	35.15	143	30	P	H
		5466.8	48.47	-19.83	68.3	40.72	34.6	8.32	35.17	143	30	P	H
		5455.6	39.71	-14.29	54	31.96	34.6	8.32	35.17	143	30	A	H
	*	5676	101.55	-	-	93.74	34.6	8.4	35.19	143	30	P	H
		5676	93.18	-	-	85.37	34.6	8.4	35.19	143	30	A	H
		5725.16	61.52	-6.78	68.3	53.59	34.67	8.42	35.16	143	30	P	H
		5430.96	49.22	-24.78	74	41.44	34.63	8.32	35.17	310	269	P	V
		5467.76	48.13	-20.17	68.3	40.38	34.6	8.32	35.17	310	269	P	V
		5451.6	39.7	-14.3	54	31.95	34.6	8.32	35.17	310	269	A	V
	*	5672	101.24	-	-	93.43	34.6	8.4	35.19	310	269	P	V
		5672	92.32	-	-	84.51	34.6	8.4	35.19	310	269	A	V
	!	5726.12	62.85	-5.45	68.3	54.92	34.67	8.42	35.16	310	269	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40		11020	41.88	-32.12	74	56.81	38.1	12.24	65.27	100	360	P	H
CH 102 5510MHz		11020	43.3	-30.7	74	58.23	38.1	12.24	65.27	100	360	P	V
802.11n HT40		11100	42.7	-31.3	74	57.6	38.1	12.3	65.3	100	360	P	H
CH 110 5550MHz		11100	42.45	-31.55	74	57.35	38.1	12.3	65.3	100	360	P	V
802.11n HT40		11340	43.39	-30.61	74	58.16	38.13	12.47	65.37	100	360	P	H
CH 134 5670MHz		11340	41.32	-32.68	74	56.09	38.13	12.47	65.37	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



## Band 3 - 5470~5725MHz

## Emission below 1GHz

## WIFI 802.11n HT40 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT40 LF		43.58	19.44	-20.56	40	34.53	16.7	0.63	32.42	100	360	P	H
		99.84	20.27	-23.23	43.5	34.56	16.9	1.01	32.2	-	-	P	H
		124.09	21.58	-21.92	43.5	34.57	18.02	1.14	32.15	-	-	P	H
		150.28	16.42	-27.08	43.5	30.73	16.51	1.28	32.1	-	-	P	H
		219.15	16.33	-29.67	46	31.33	15.31	1.61	31.92	-	-	P	H
		844.8	26.14	-19.86	46	28.46	26.28	3.1	31.7	-	-	P	H
		67.83	18.46	-21.54	40	37.22	12.66	0.82	32.24	-	-	P	V
		111.48	23.63	-19.87	43.5	37.09	17.64	1.08	32.18	-	-	P	V
		125.06	24.54	-18.96	43.5	37.57	17.98	1.14	32.15	100	0	P	V
		130.88	21.37	-22.13	43.5	34.64	17.7	1.17	32.14	-	-	P	V
		547.01	23.71	-22.29	46	28.89	24.01	2.5	31.69	-	-	P	V
		885.54	26.41	-19.59	46	28.4	26.44	3.2	31.63	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>not under limit 6dB</b> .
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>H</b> orizontal or <b>V</b> ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

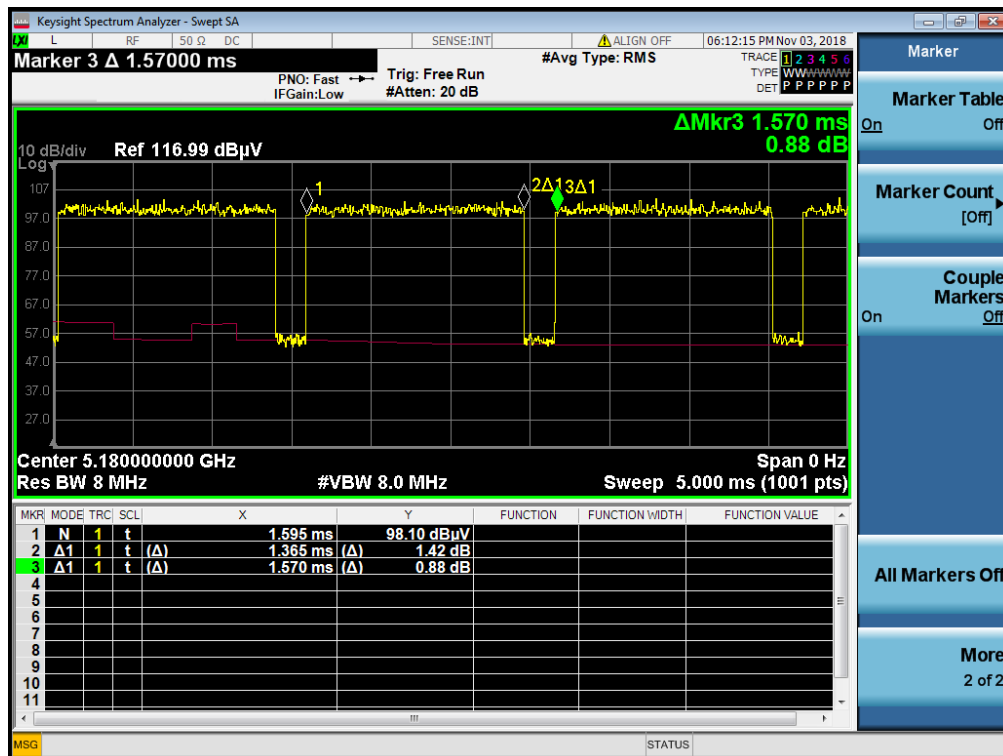
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

## Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	86.94	1.365	0.733	0.75KHz
802.11n HT20	86.44	1.275	0.784	0.82KHz
802.11n HT40	85.61	1.220	0.820	0.82KHz

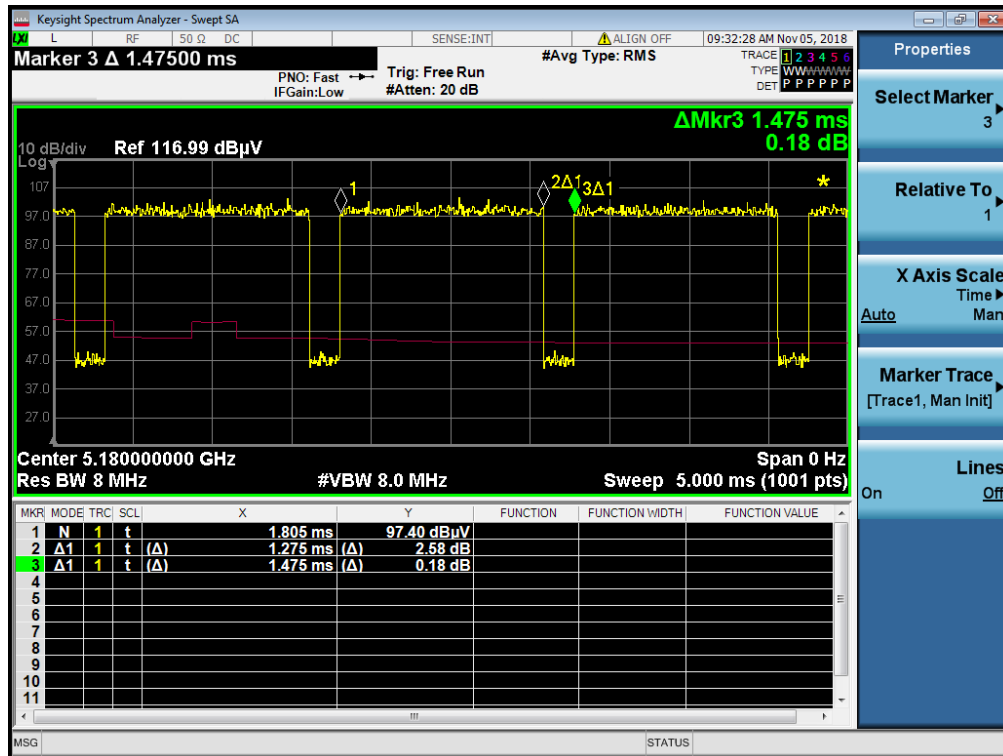
### 802.11a







## 802.11n HT20



## 802.11n HT40

