# **FCC RF Test Report**

APPLICANT : OnePlus Technology (shenzhen) Co., Ltd

EQUIPMENT : Smart Phone BRAND NAME : ONEPLUS

MODEL NAME : ONEPLUS A6013

FCC ID : 2ABZ2-A6013

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 10, 2018 and testing was completed on Aug. 23, 2018. We, Sporton International (Shenzhen) 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.

Zier Shih

Approved by: Eric Shih / Manager

TESTING NVLAP LAB CODE 600156-0

## Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China

Sporton International (Shenzhen) Inc.

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Report No.: FR871004-01C

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR871004-01C	Rev. 01	Initial issue of report	Sep. 05, 2018

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
0.4	45.047(-1)	Conducted Band Edges	< 00 dD -	Pass	-
3.4	15.247(d)	Conducted Spurious Emission	≤ 20dBc	Pass	-
2.5	15 047(d)	Radiated Band Edges and	15.209(a) &	Door	Under limit
3.5	15.247(d)	Radiated Spurious Emission	15.247(d)	Pass	0.51 dB at 2389.24 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 18.80 dB at 0.61 MHz
3.7	15.203 &	Antonno Boquiroment	N/A	Doos	
3.7	15.247(b)	Antenna Requirement		Pass	-

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## 1 General Description

## 1.1 Applicant

#### OnePlus Technology (shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

## 1.2 Manufacturer

### OnePlus Technology (shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

## 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Smart Phone			
Brand Name	ONEPLUS			
Model Name	ONEPLUS A6013			
FCC ID	2ABZ2-A6013			
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE			
IMEI Code	Conducted: 865208040070859 Conduction: 865208040070206 Radiation: 865208040024997			
HW Version	34			
SW Version	ONEPLUS A6013_34_180810			
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.

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## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Channel Frequency Range 2412 MHz ~ 2462 MHz				
Maximum (Peak) Output Power to antenna	802.11b : 21.27 dBm (0.1340 W) 802.11g : 23.02 dBm (0.2004 W) 802.11n HT20 : 23.02 dBm (0.2004 W) 802.11n HT40 : 22.14 dBm (0.1637 W) SISO <ant. 2=""> 802.11b : 18.58 dBm (0.0721 W) 802.11g : 20.02 dBm (0.1005 W) 802.11n HT20 : 20.07 dBm (0.1016 W) 802.11n HT40 : 19.50 dBm (0.0891 W) MIMO <ant. +="" 1="" 2=""> 802.11b : 23.19 dBm (0.2084 W) 802.11g : 24.87 dBm (0.3069 W) 802.11n HT20 : 24.91 dBm (0.3097 W) 802.11n HT40 : 23.81 dBm (0.2404 W)</ant.></ant.>			
99% Occupied Bandwidth	MIMO <ant 1=""> 802.11b: 14.49MHz 802.11g: 17.63MHz 802.11n HT20: 18.93MHz 802.11n HT40: 36.66MHz MIMO <ant 2=""> 802.11b: 14.24MHz 802.11g: 17.53MHz 802.11n HT20: 18.73MHz 802.11n HT40: 36.46MHz</ant></ant>			
Antenna Type / Gain	Ant 1: PIFA Antenna type with gain -2.8 dBi Ant 2: PIFA Antenna type with gain -3.0 dBi			
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM/256QAM)			
Antenna Function for Transmitter	802.11 b/g/n/ac SISO 802.11 b/g/n/ac	Ant. 1	Ant. 2	
	MIMO	V	V	

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#### Note:

- 1. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
- 2. For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/ HT40 by referring to their higher conducted power.
- 3. For SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power.

## 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 International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site Location  1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenz City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	Test Site	Sporton International (Shenzhen) Inc.			
Charter Site No. FCC Test Firm Designation N	Test Site Location	City Guangdong P TEL: +86-755-863	rovince 518055 China 7-9589	•	
Test Site No.  Sporton Site No.  FCC Test Firm Registration No.  TH01-SZ CO01-SZ 337463	Test Site No.	•		FCC Test Firm Registration No.	

Test Site	Sporton International (Shenzhen) Inc.				
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Wat Site Location  Nanshan District Shenzhen City Guangdong Province 518055 China  TEL: +86-755-3320-2398				
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.			
rest site NO.	03CH03-SZ	577730			

Note: The test site complies with ANSI C63.4 2014 requirement.

## 1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

#### Remark:

- 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.

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## 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) 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)
	1	2412	7	2442
	2	2417	8	2447
2400 2402 E MIL	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437		

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## 2.2 Test Mode

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

### **MIMO Antenna**

Modulation	Data Rate	
802.11b	1 Mbps	
802.11g	6 Mbps	
802.11n HT20	MCS0	
802.11n HT40	MCS0	

Test Cases					
AC Conducted Emission	Mode 1 :GSM1900 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + SIM 1				
Remark: For Radiated Test Cases, The tests were performed with Adapter and USB Cable.					

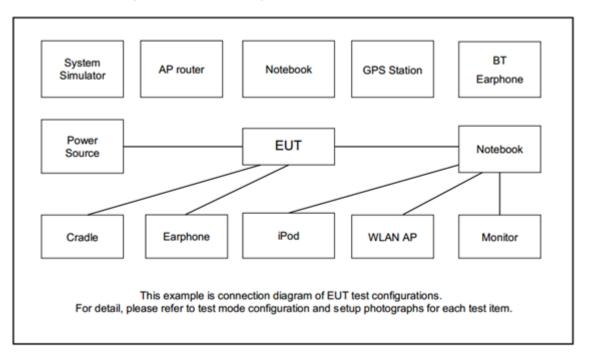
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## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Samsung	EO-MG900	N/A	N/A	N/A

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## 2.5 EUT Operation Test Setup

For WLAN function, the 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.0 dB and 10dB attenuator.

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

= 5.0 + 10 = 15.0 (dB)

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## 3 Test Result

### 3.1 6dB and 99% Bandwidth Measurement

#### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

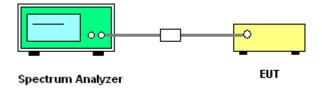
## 3.1.2 Measuring Instruments

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

#### 3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
- 6. Measure and record the results in the test report.

#### 3.1.4 Test Setup



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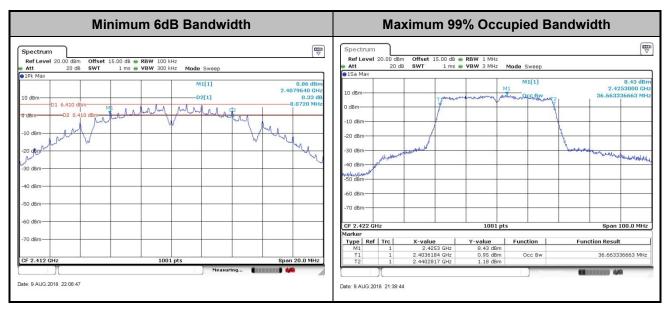
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## 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

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 Output Power Measurement

## 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

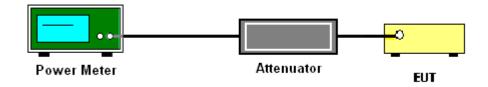
### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.
- 5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

### 3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

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## 3.3 Power Spectral Density Measurement

### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

#### 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 Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

If measurements performed using method (2) plus 10 log (N) exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

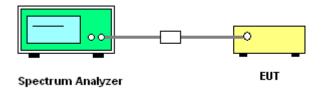
Method (1): Measure and sum the spectra across the outputs.

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.

Method (2): Measure and add 10 log (N) dB, where N is the number of outputs. (N=2)

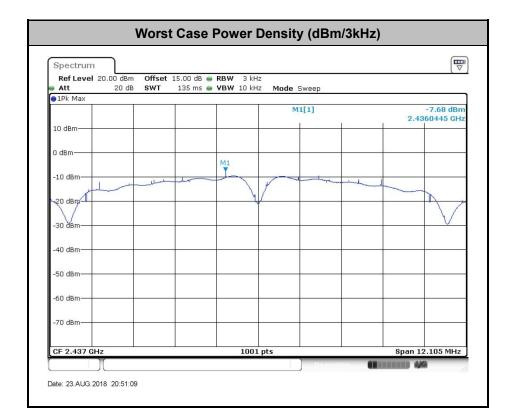
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## 3.3.4 Test Setup



## 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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## 3.4 Conducted Band Edges and Spurious Emission Measurement

#### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

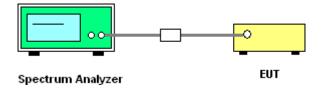
### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 3.4.4 Test Setup



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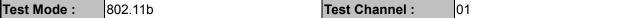
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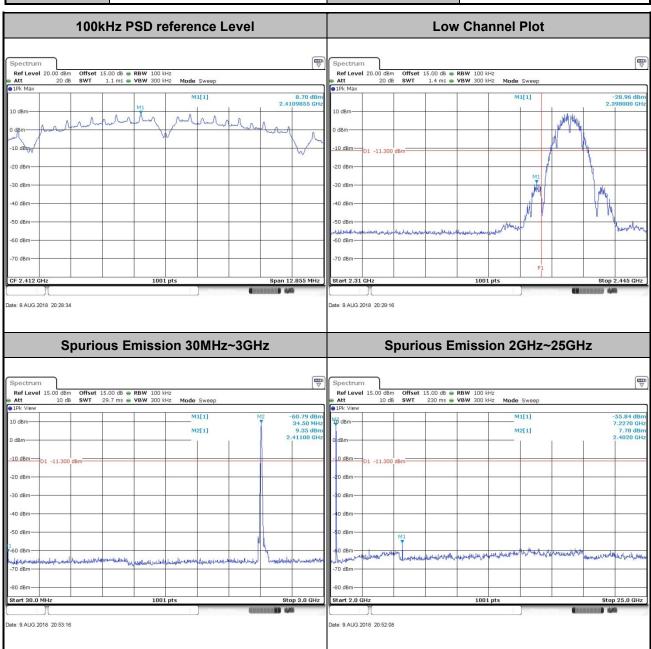
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## 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Tost Engineer:	Sam Zheng	Temperature :	24~26℃
rest Engineer.		Relative Humidity :	50~53%

#### Number of TX = 2, Ant. 1 (Measured)





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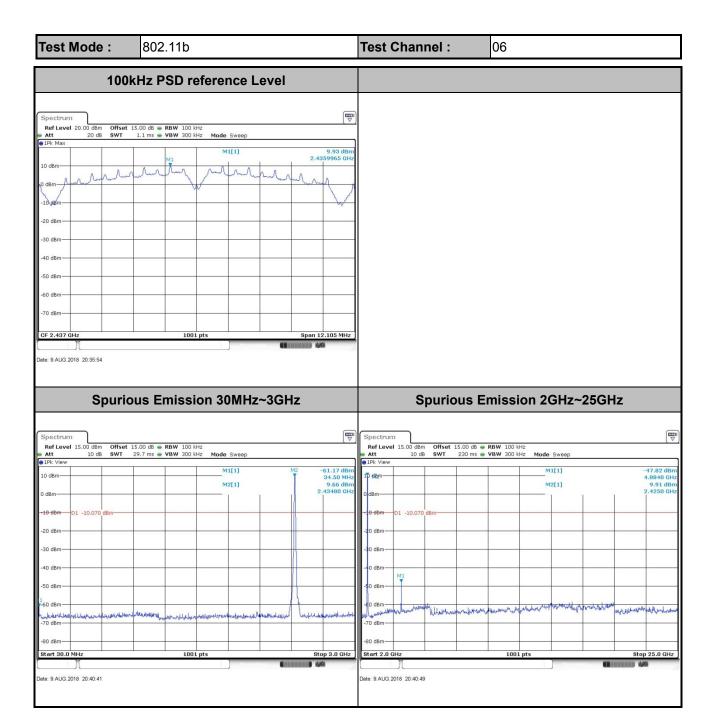
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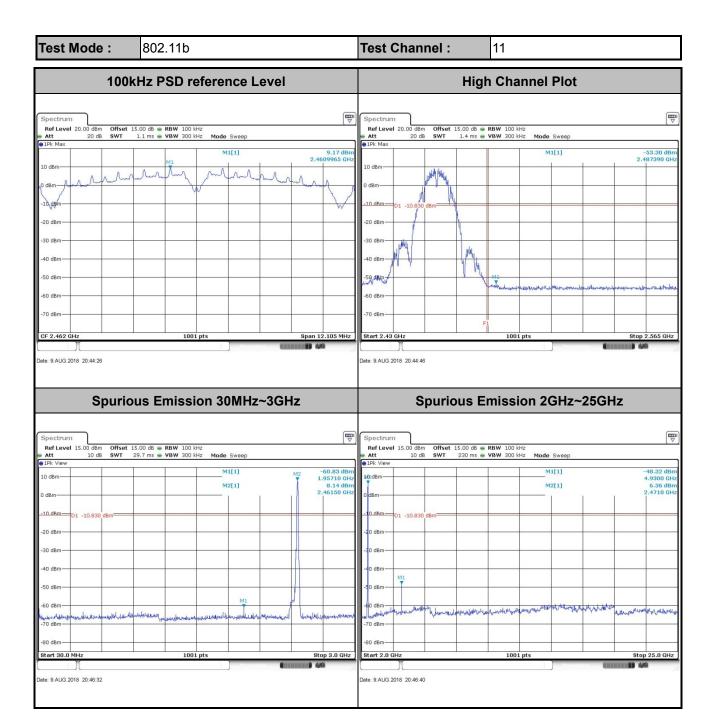
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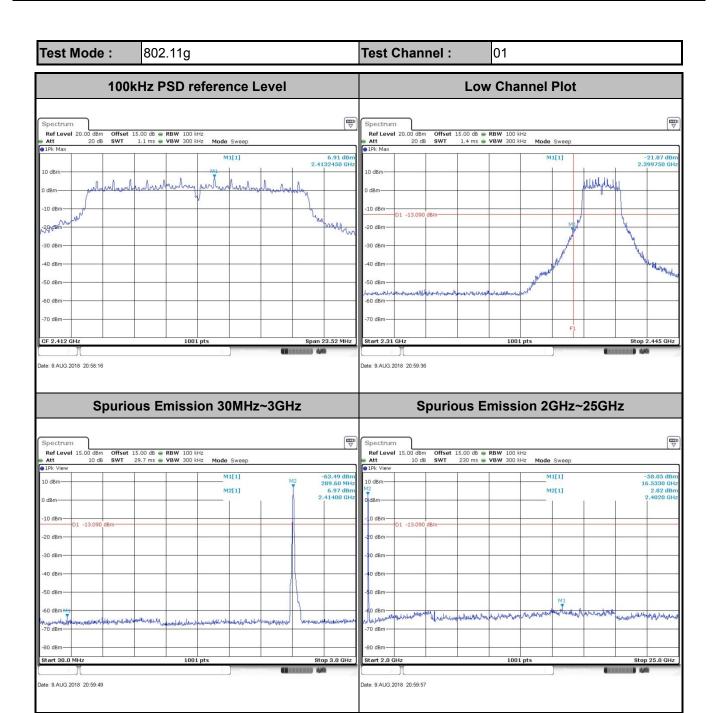
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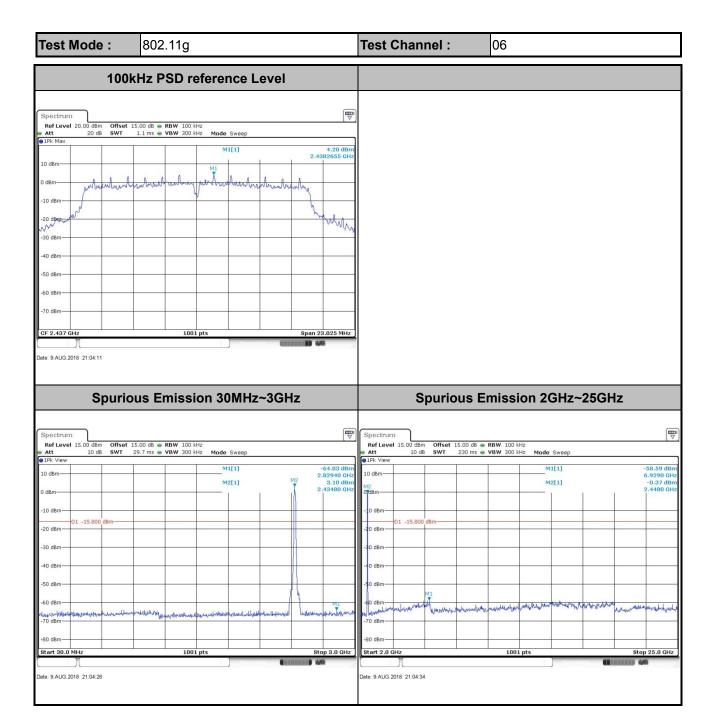
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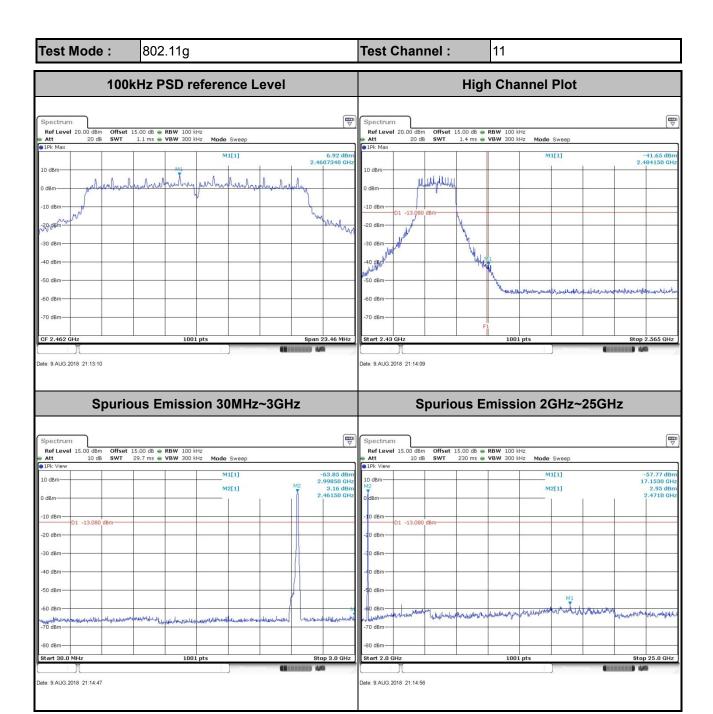
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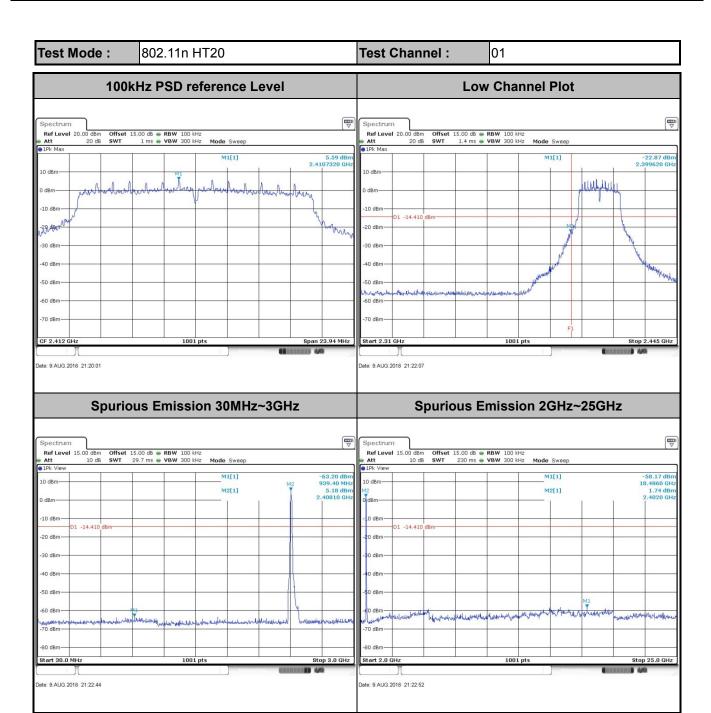


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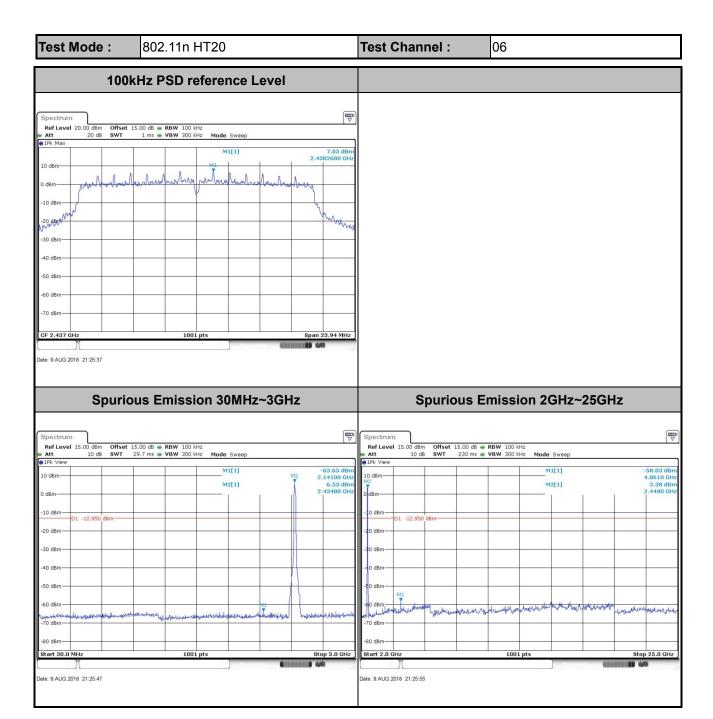
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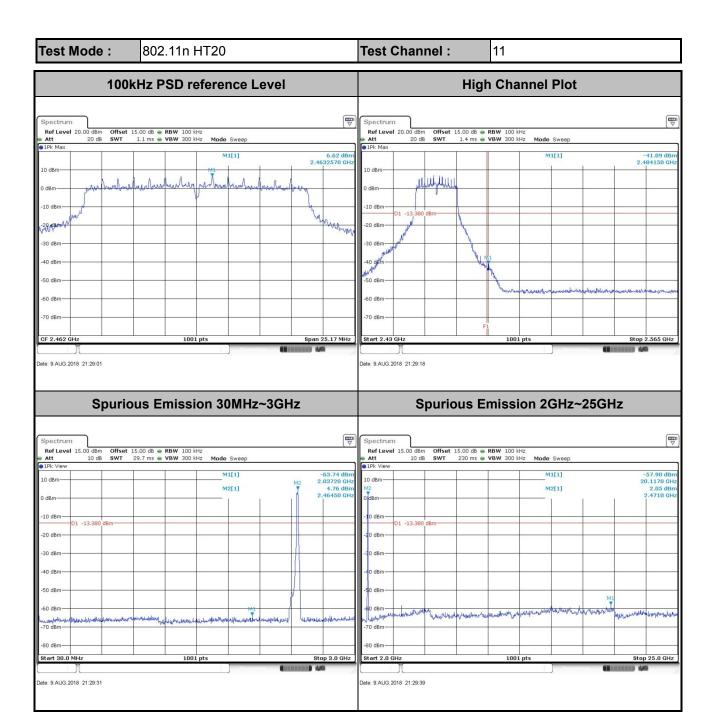
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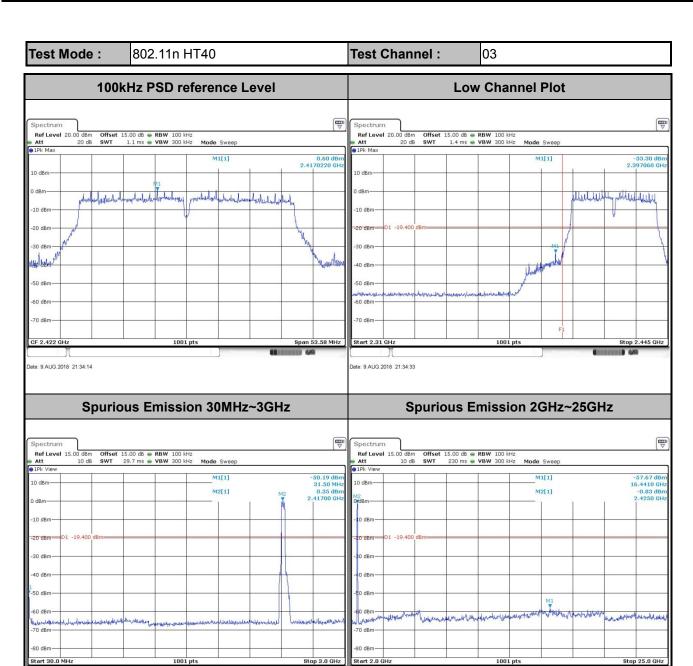


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Date: 9.AUG.2018 21:37:53

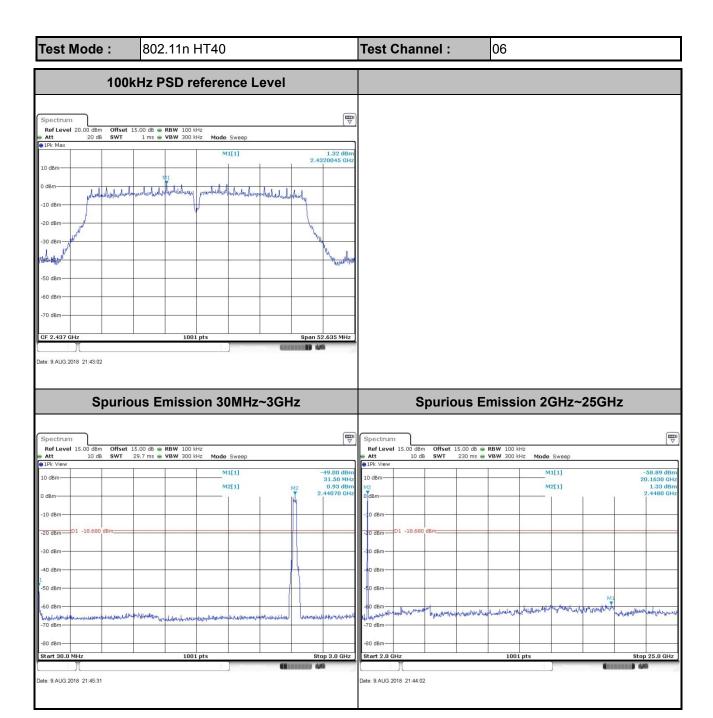
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2ABZ2-A6013

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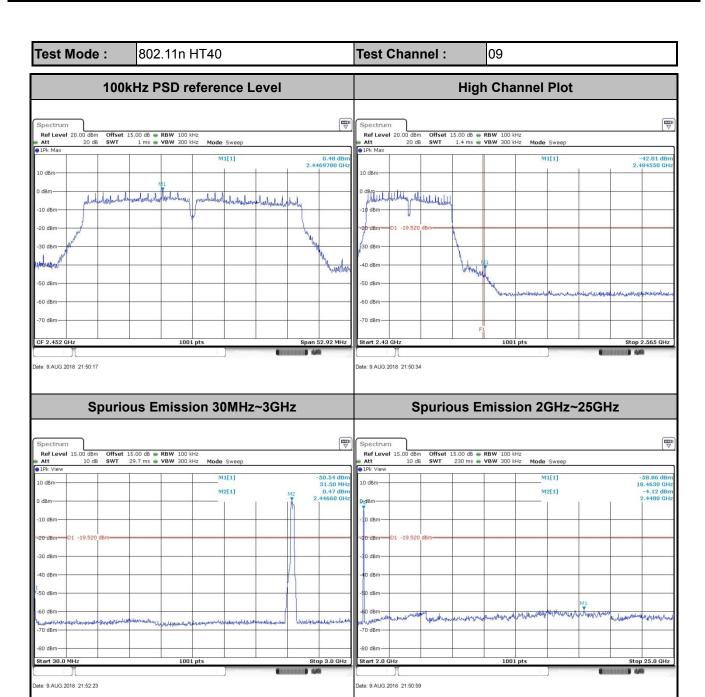


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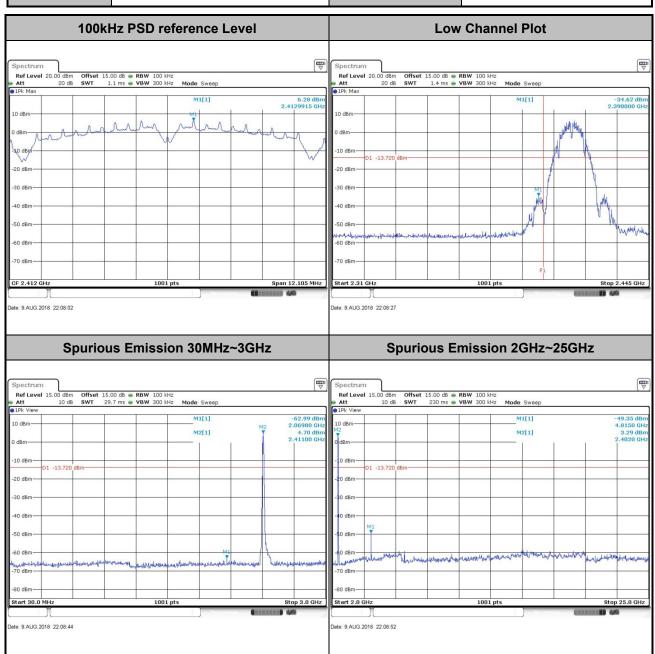
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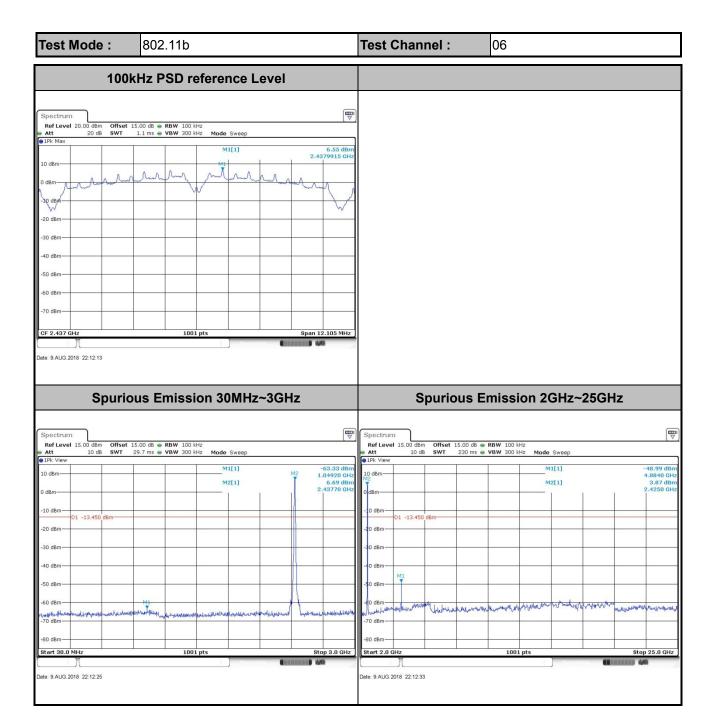


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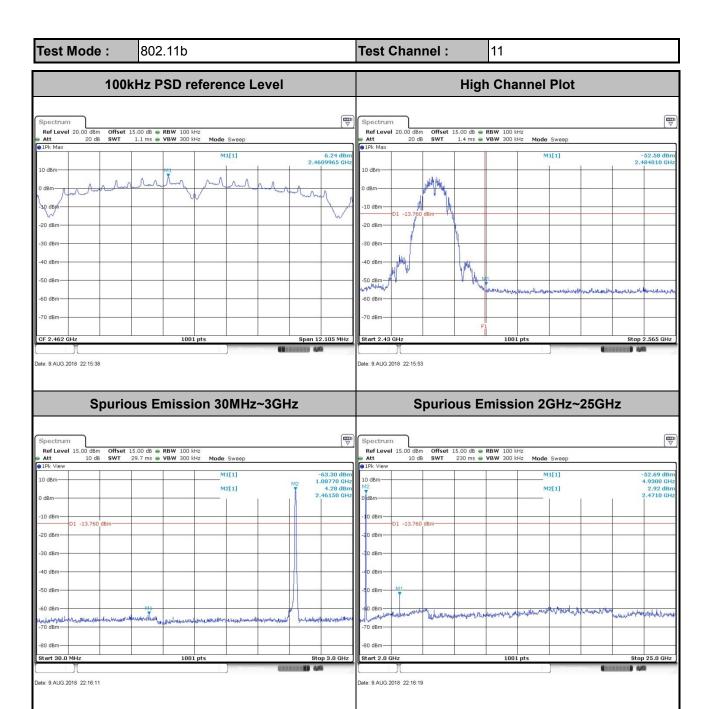
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