

# TEST REPORT

**FCC ID: 2AKAIHNM9**

**Product: TABLET PC**

**Model No.: PLT9999G**

**Additional Model No.: HN-M906, PLT96\*\*("\*\*"00-99), PLT99\*\*("\*\*"00-99),  
HN-M9\*\*(00-99)**

**Trade Mark: N/A**

**Report No.: TCT161116E009**

**Issued Date: Dec. 05, 2016**

Issued for:

**SHENZHEN HARMONY INDUSTRIAL CO., LTD  
BLOCK 2,JIAYUAN INDUSTRIAL ZONE, HEPING COMMUNITY HIGH-TECH  
PARK, NO 2 FUYUANROAD, FUYONG, BAO'AN, SHENZHEN, China**

Issued By:

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**Appendix A: Photographs of Test Setup**

**Appendix B: Photographs of EUT**

## 1. Test Certification

<b>Product:</b>	TABLET PC
<b>Model No.:</b>	PLT9999G
<b>Additional Model No.:</b>	HN-M906, PLT96**("00-99), PLT99**("00-99), HN-M9**(00-99)
<b>Applicant:</b>	SHENZHEN HARMONY INDUSTRIAL CO., LTD
<b>Address:</b>	BLOCK 2, JIAYUAN INDUSTRIAL ZONE, HEPING COMMUNITY HIGH-TECH PARK, NO 2 FUYUANROAD, FUYONG, BAO'AN, SHENZHEN, China
<b>Manufacturer:</b>	SHENZHEN HARMONY INDUSTRIAL CO., LTD
<b>Address:</b>	BLOCK 2, JIAYUAN INDUSTRIAL ZONE, HEPING COMMUNITY HIGH-TECH PARK, NO 2 FUYUANROAD, FUYONG, BAO'AN, SHENZHEN, China
<b>Date of Test:</b>	Nov. 16, 2016 - Dec. 02, 2016
<b>Applicable Standards:</b>	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Ride Cheng

Date: Dec. 02, 2016

Ride Cheng

Reviewed By:

Joe Zhou

Date: Dec. 05, 2016

Tomsin

Approved By:

Tomsin

Date: Dec. 05, 2016



## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 3. EUT Description

<b>Product Name:</b>	TABLET PC
<b>Model :</b>	PLT9999G
<b>Additional Model:</b>	HN-M906, PLT96**("**"00-99), PLT99**("**"00-99), HN-M9**(00-99)
<b>Trade Mark:</b>	N/A
<b>Hardware Version:</b>	F92S_Y20
<b>Software Version:</b>	MMB29M release-keys
<b>Operation Frequency:</b>	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
<b>Channel Separation:</b>	5MHz
<b>Number of Channel:</b>	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
<b>Modulation Technology: (IEEE 802.11b)</b>	Direct Sequence Spread Spectrum (DSSS)
<b>Modulation Technology: (IEEE 802.11g/802.11n)</b>	Orthogonal Frequency Division Multiplexing(OFDM)
<b>Data speed (IEEE 802.11b):</b>	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
<b>Data speed (IEEE 802.11g):</b>	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
<b>Data speed (IEEE 802.11n):</b>	Up to 135Mbps
<b>Antenna Type:</b>	Internal antenna
<b>Antenna Gain:</b>	2.0dBi
<b>Power Supply:</b>	Adapter Information: MODEL: HJ-050200U INPUT: AC 100-240V~50/60Hz 0.6A Max OUTPUT: 5V, 2A
<b>Remark:</b>	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

**Operation Frequency each of channel For 802.11b/g/n(HT20)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

**Operation Frequency each of channel For 802.11n (HT40)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
--	--	4	2427MHz	7	2442MHz	--	--
--	--	5	2432MHz	8	2447MHz	--	--
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

**802.11b/802.11g/802.11n (HT20)**

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

**802.11n (HT40)**

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

## 4. General Information

### 4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)
<p>The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.</p>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

**Final Test Mode:**

Operation mode:	Keep the EUT in continuous transmitting with modulation
<p>1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.</p> <p>2. According to ANSI C63.10 standards, the test results are both the "worst case" and</p>	

"worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

## 4.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	HJ-050200U	/	/	Intertek

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

## 5. Facilities and Accreditations

### 5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

### 5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

### 5.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

## 6. Test Results and Measurement Data

### 6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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#### 15.203 requirement:

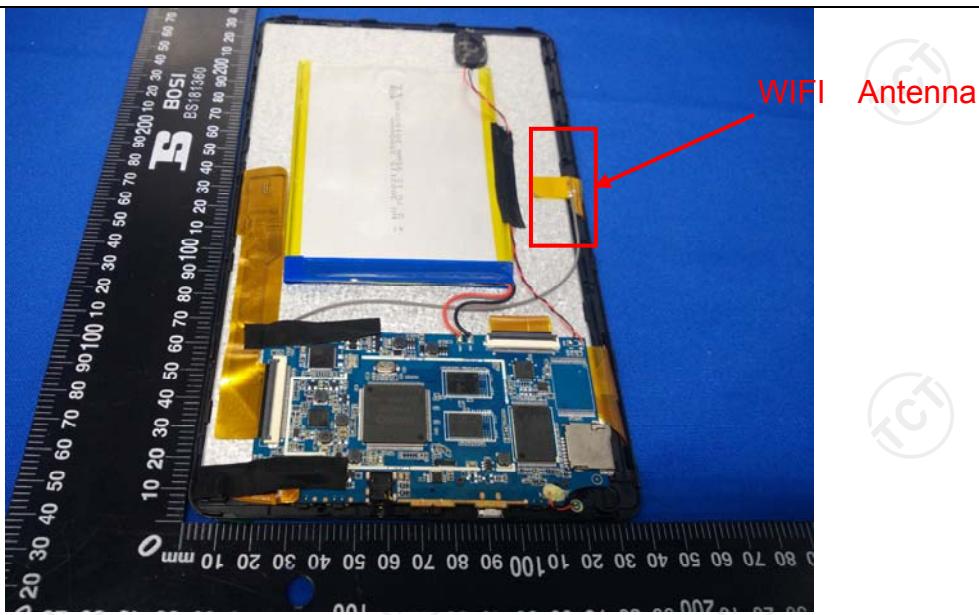
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### E.U.T Antenna:

The WIFI antenna is a Internal antenna which permanently attached, and the best case gain of the antenna is 2.0dBi.



## 6.2. Conducted Emission

### 6.2.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10:2013														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
<b>Test Setup:</b>	<p>Reference Plane</p> <p>E.U.T      AC power</p> <p>LISN</p> <p>Filter      AC power</p> <p>EMI Receiver</p> <p>Test table/Insulation plane</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Charging + transmitting with modulation														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>														
<b>Test Result:</b>	PASS														

### 6.2.2. Test Instruments

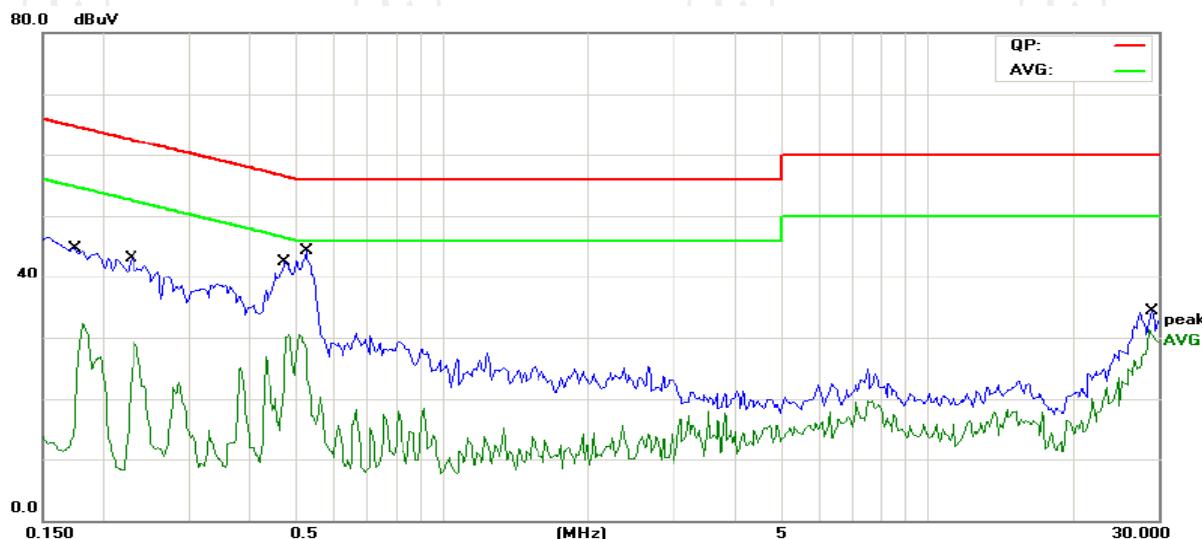
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	100139	Aug. 11, 2017
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017
Coax cable (9kHz-40GHz)	TCT	CE-05	N/A	Aug. 11, 2017
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.2.3. Test data

Please refer to following diagram for individual

#### Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2  
Limit: FCC Part 15B Class B Conduction(QP) Phase: **L1** Temperature: 23 (C)  
Power: AC 120V/60Hz Humidity: 54 %

Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
MHz	dB $\mu$ V	dB	dB $\mu$ V	dB $\mu$ V	dB	Detector
0.1811	30.79	11.46	42.25	64.43	-22.18	QP
0.1811	20.83	11.46	32.29	54.43	-22.14	AVG
0.2320	27.67	11.43	39.10	62.37	-23.27	QP
0.2320	17.92	11.43	29.35	52.37	-23.02	AVG
0.4858	28.03	11.31	39.34	56.24	-16.90	QP
0.4858	19.19	11.31	30.50	46.24	-15.74	AVG

7.6913	9.37	11.02	20.39	60.00	-39.61	QP
7.6913	8.66	11.02	19.68	50.00	-30.32	AVG
28.6367	20.12	10.64	30.76	60.00	-29.24	QP
28.6367	20.61	10.64	31.25	50.00	-18.75	AVG

#### Note:

Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB)

Limit (dB $\mu$ V) = Limit stated in standard

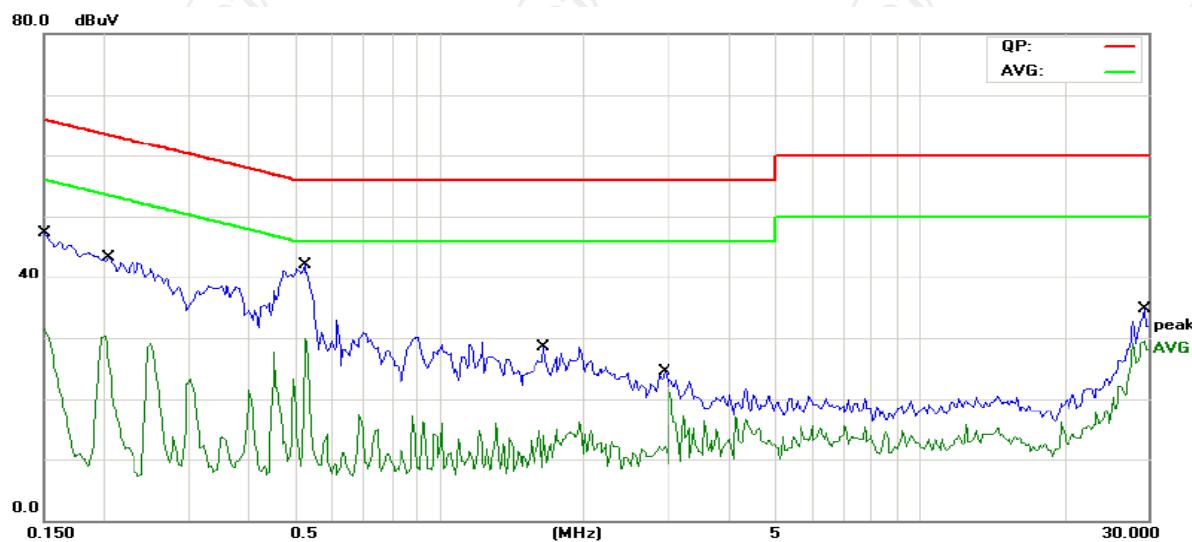
Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

Q.P. = Quasi-Peak

AVG = average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

### **Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)**



Site Chamber #2  
Limit: FCC Part 15B Class B Conduction(QP)

Phase: **N**  
Power: AC 120V/60Hz

Temperature: 23 (C)  
Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
							dB	dBuV	Comment
1		0.1500	30.34	11.47	41.81	65.99	-24.18	QP	
2		0.1500	10.74	11.47	22.21	55.99	-33.78	AVG	
3		0.2047	27.15	11.45	38.60	63.41	-24.81	QP	
4		0.2047	8.74	11.45	20.19	53.41	-33.22	AVG	
5 *		0.5250	26.38	11.29	37.67	56.00	-18.33	QP	
6		0.5250	9.67	11.29	20.96	46.00	-25.04	AVG	
7		1.6500	9.92	11.52	21.44	56.00	-34.56	QP	
8		1.6500	-0.67	11.52	10.85	46.00	-35.15	AVG	
9		2.9547	6.92	11.35	18.27	56.00	-37.73	QP	
10		2.9547	-1.13	11.35	10.22	46.00	-35.78	AVG	
11		29.5234	19.79	10.61	30.40	60.00	-29.60	QP	
12		29.5234	16.37	10.61	26.98	50.00	-23.02	AVG	

**Note:**

*Freq. = Emission frequency in MHz*

*Reading level (dB $\mu$ V) = Receiver reading*

*Corr. Factor (dB) = Antenna factor + Cable loss*

$$\text{Measurement (dBuV)} = \text{Reading level (dBuV)} + \text{Corr. Factor (dB)}$$

*Limit (dBuV) = Limit stated in standard*

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. = Quasi-Peak

AVG = average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

#### 6.2.4. Maximum Conducted (Average) Output Power

#### 6.2.5. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.247 (b)(3)
<b>Test Method:</b>	KDB 558074
<b>Limit:</b>	30dBm
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                                  EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05.</li> <li>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.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the conducted output power and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

#### 6.2.6. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017
RF cable (9kHz-40GHz)	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**6.2.7. Test Data****802.11b mode**

Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	6.94	30.00	PASS
Middle	6.09	30.00	PASS
Highest	6.91	30.00	PASS

**802.11g mode**

Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	7.63	30.00	PASS
Middle	6.29	30.00	PASS
Highest	7.08	30.00	PASS

**802.11n(H20) mode**

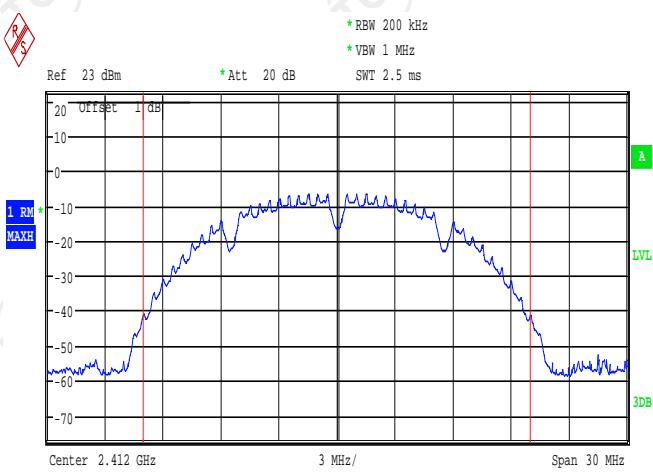
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	7.17	30.00	PASS
Middle	6.25	30.00	PASS
Highest	6.87	30.00	PASS

**802.11n(H40) mode**

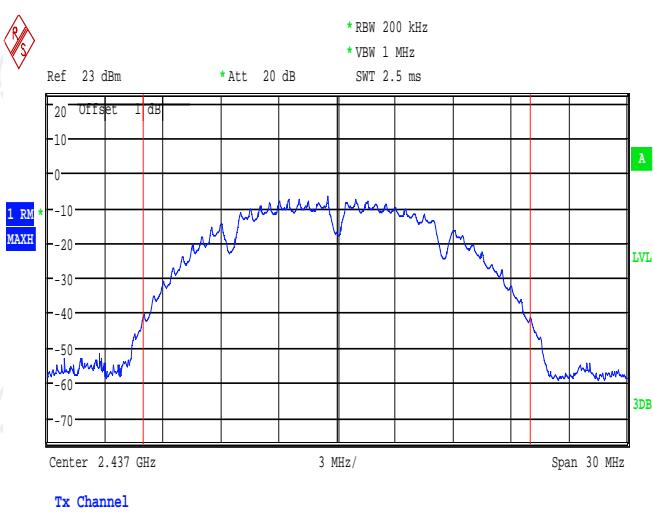
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	5.93	30.00	PASS
Middle	6.15	30.00	PASS
Highest	5.86	30.00	PASS

**Test plots as follows:**  
**802.11b Modulation**

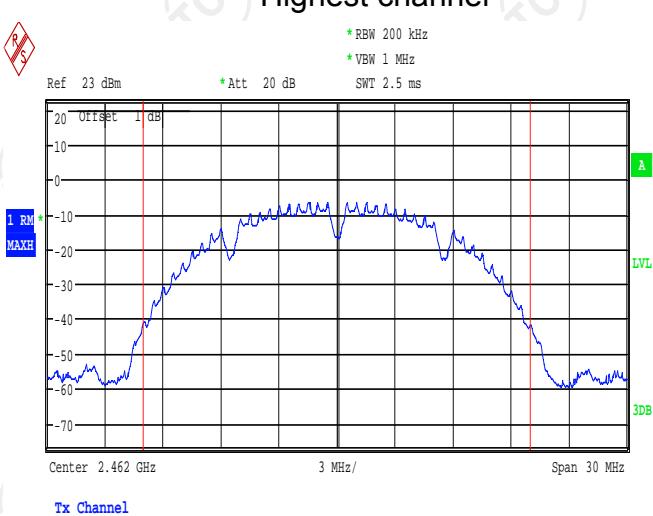
### Lowest channel



### Middle channel

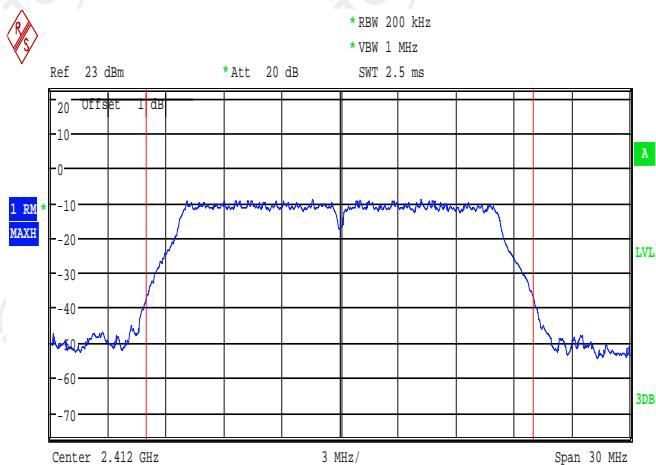


### Highest channel

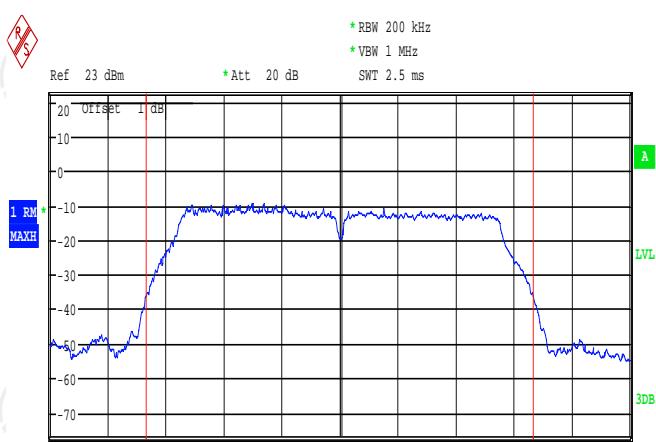


### 802.11g Modulation

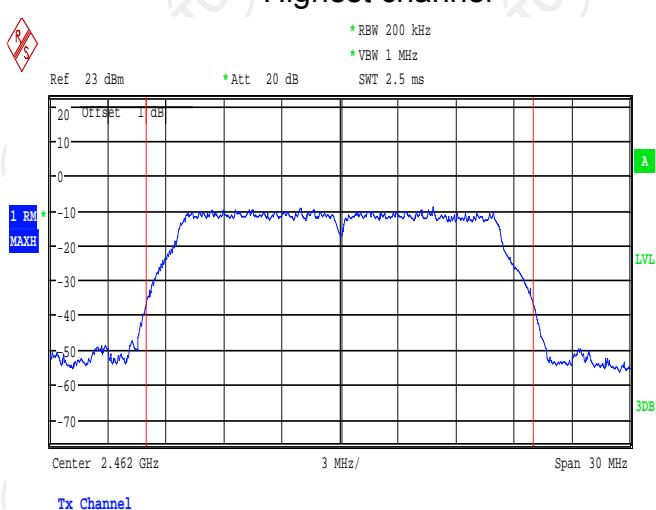
#### Lowest channel



#### Middle channel

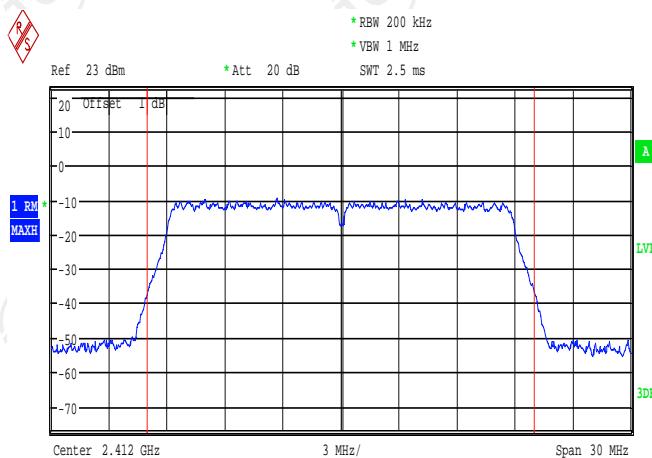


#### Highest channel

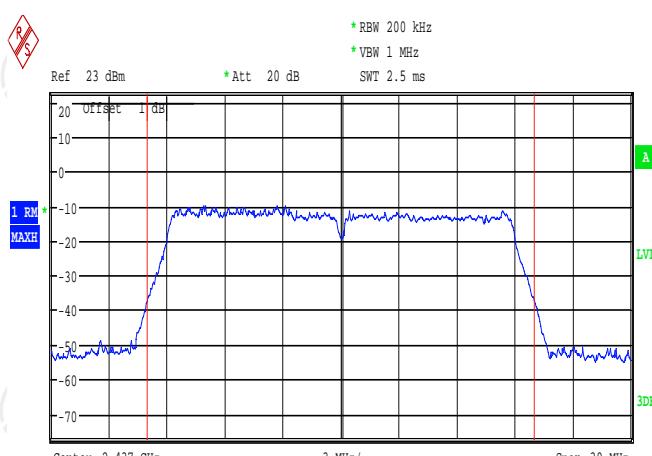


### 802.11n (HT20) Modulation

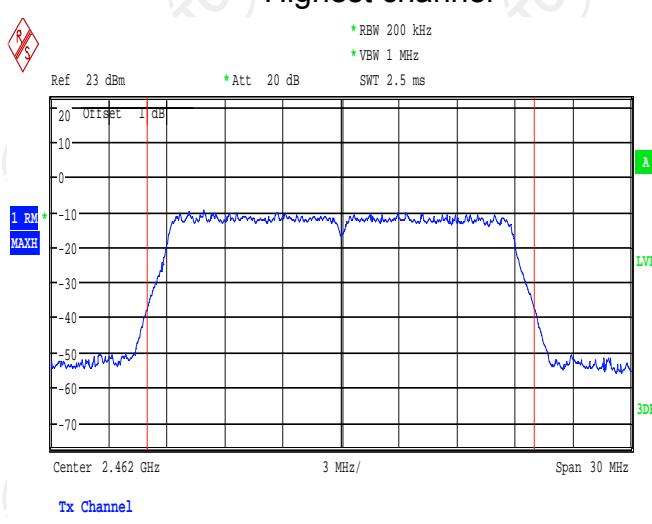
#### Lowest channel



#### Middle channel

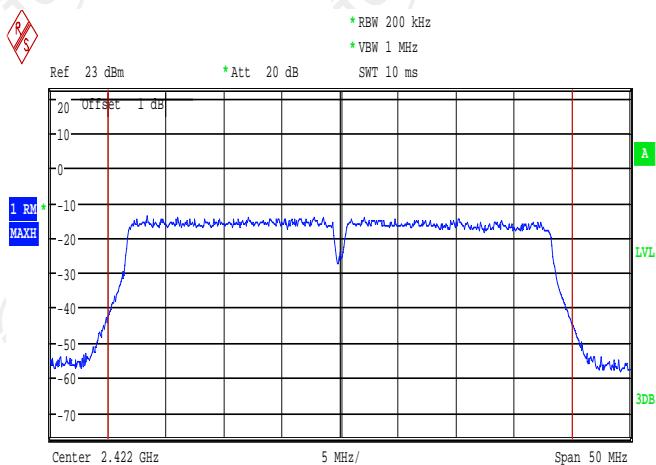


#### Highest channel

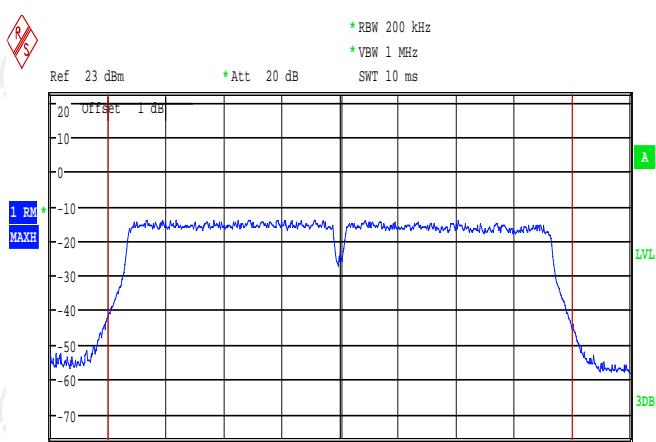


### 802.11n (HT40) Modulation

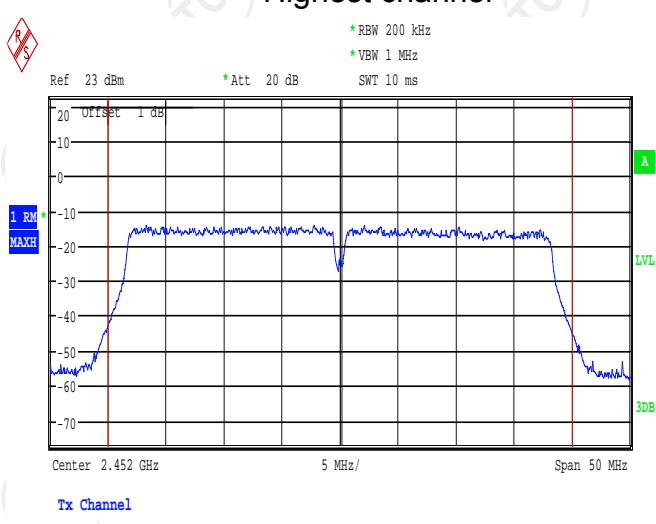
#### Lowest channel



#### Middle channel

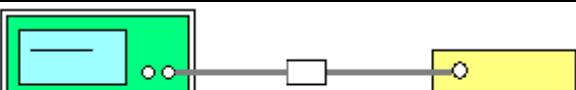


#### Highest channel



### 6.3. Emission Bandwidth

#### 6.3.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.247 (a)(2)
<b>Test Method:</b>	KDB 558074
<b>Limit:</b>	>500kHz
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                          EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. 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 6dB bandwidth must be greater than 500 kHz.</li> <li>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

#### 6.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017
RF cable (9kHz-40GHz)	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

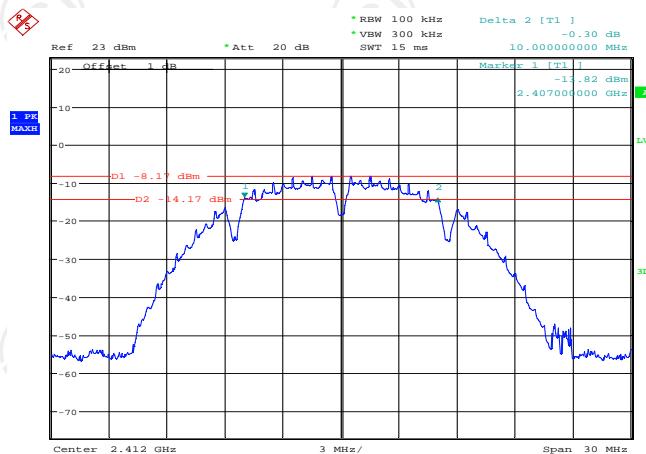
**6.3.3. Test data**

Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	10	16.59	17.79	36.54
Middle	10	16.59	17.88	36.62
Highest	10	16.59	17.88	36.54
Limit:	>500k			
Test Result:	PASS			

**Test plots as follows:**

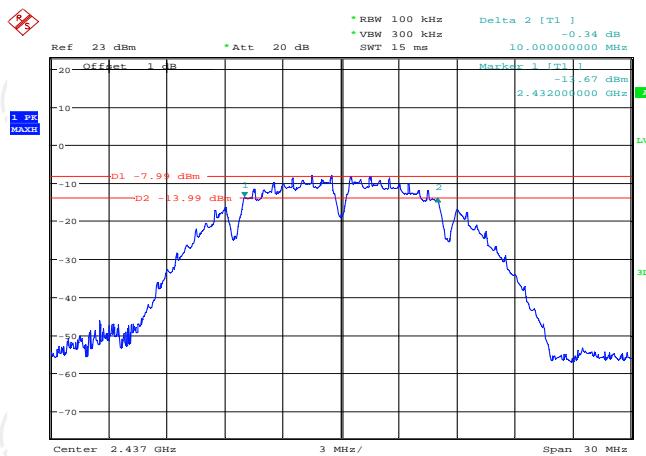
## 802.11b Modulation

### Lowest channel



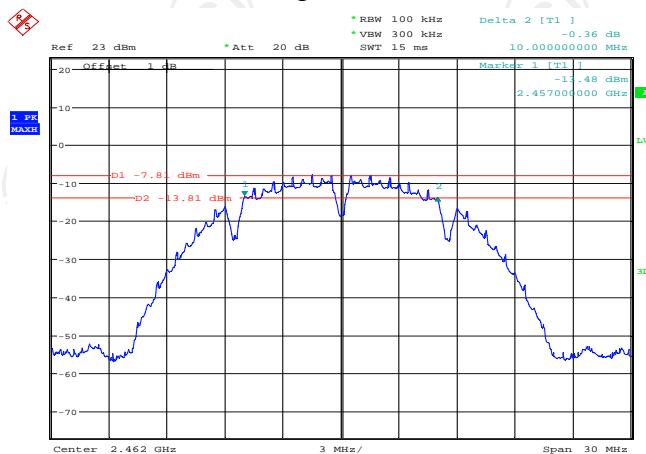
Date: 29.NOV.2016 12:46:10

### Middle channel



Date: 29.NOV.2016 12:47:32

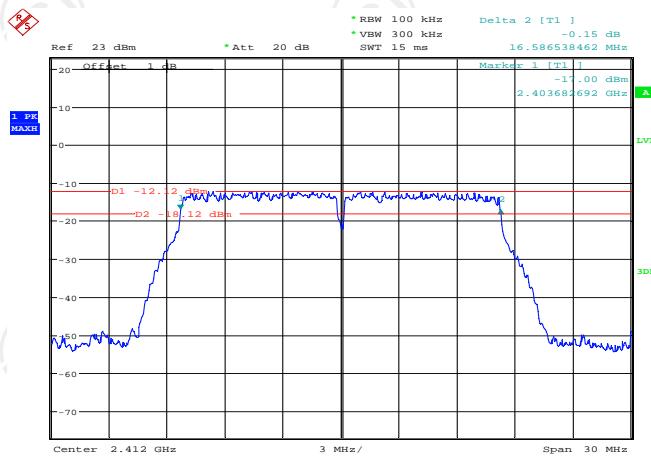
### Highest channel



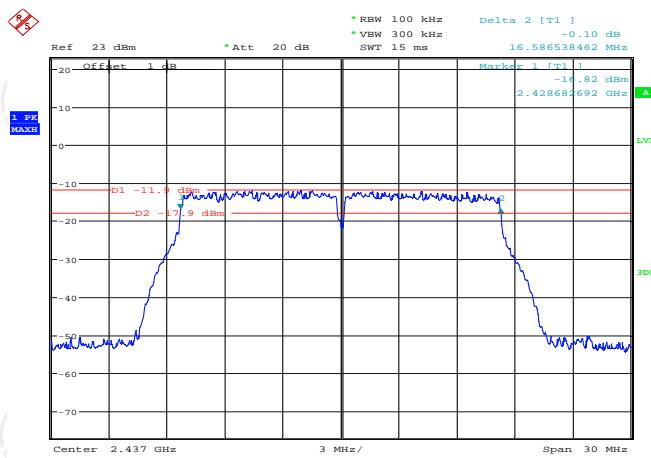
Date: 29.NOV.2016 12:49:40

## 802.11g Modulation

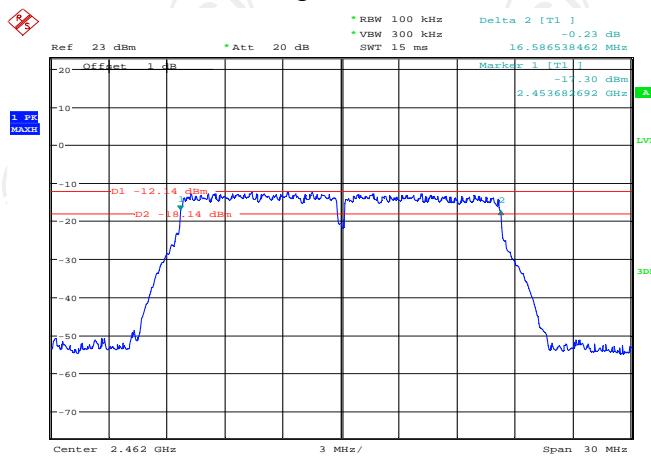
### Lowest channel



### Middle channel

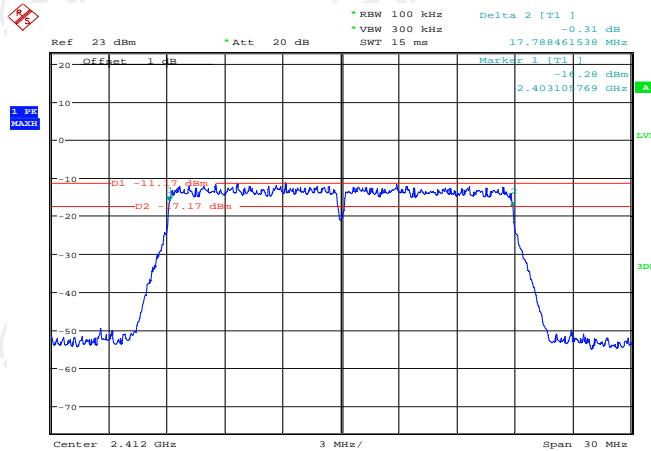


### Highest channel

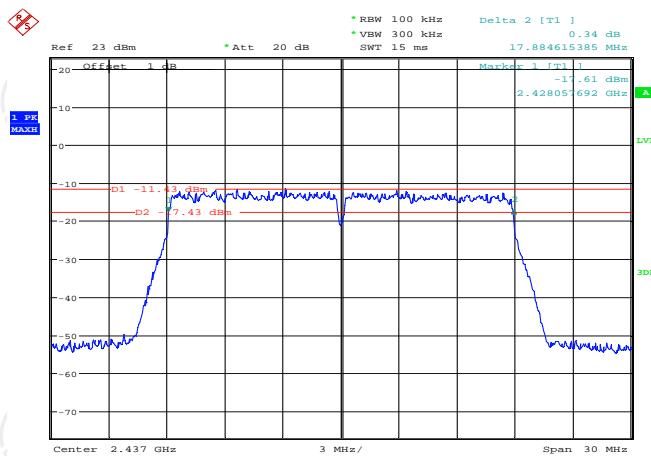


## 802.11n (HT20) Modulation

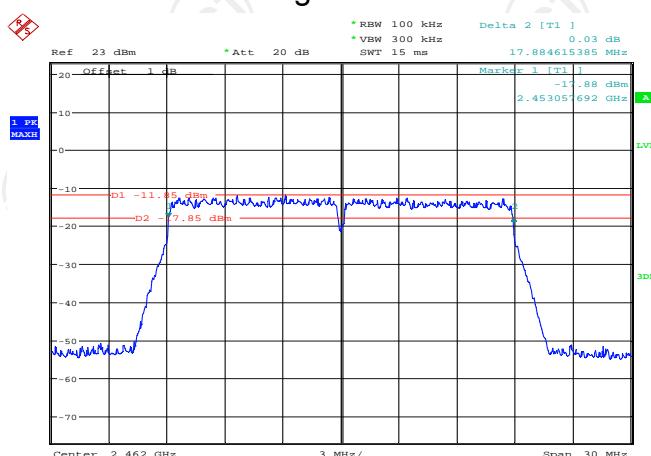
### Lowest channel



### Middle channel

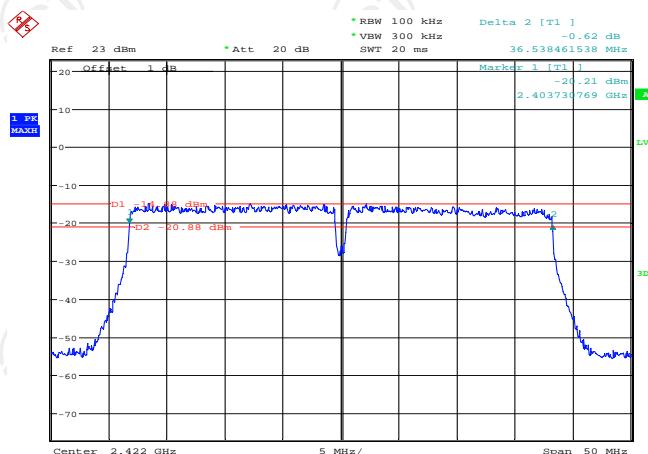


### Highest channel



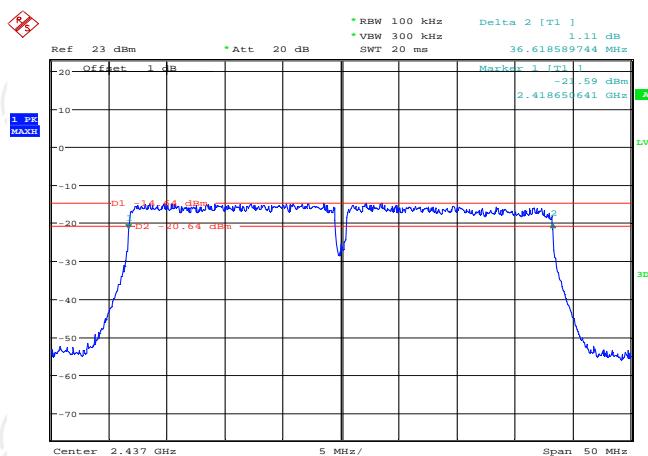
## 802.11n (HT40) Modulation

### Lowest channel



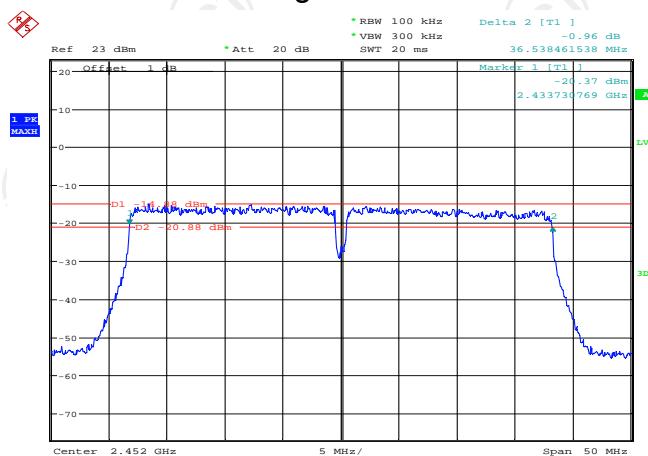
Date: 29.NOV.2016 14:50:45

### Middle channel



Date: 29.NOV.2016 14:52:26

### Highest channel



Date: 29.NOV.2016 14:58:27

## 6.4. Power Spectral Density

### 6.4.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.247 (e)
<b>Test Method:</b>	KDB 558074
<b>Limit:</b>	The power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
<b>Test Setup:</b>	<p style="text-align: center;">Spectrum Analyzer                                  EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05</li> <li>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.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>. Video bandwidth VBW <math>\geq 3 \times \text{RBW}</math>. Set the span to at least 1.5 times the OBW.</li> <li>5. Detector = Peak, Sweep time = auto couple.</li> <li>6. Employ trace in max hold. Use the peak marker function to determine the maximum power level.</li> <li>7. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

### 6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017
RF cable (9kHz-40GHz)	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

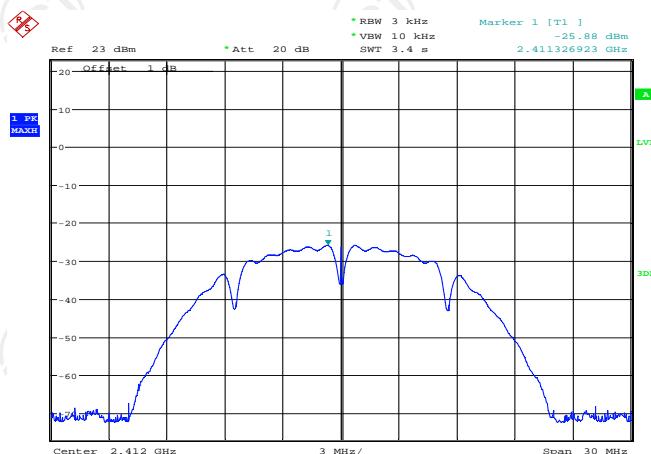
**6.4.3. Test data**

Test channel	Power Spectral Density (dBm/3kHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	-25.88	-25.19	-24.84	-25.54
Middle	-26.04	-25.66	-25.65	-27.69
Highest	-26.00	-25.63	-24.69	-27.01
Limit:	8dBm/3kHz			
Test Result:	PASS			

**Test plots as follows:**

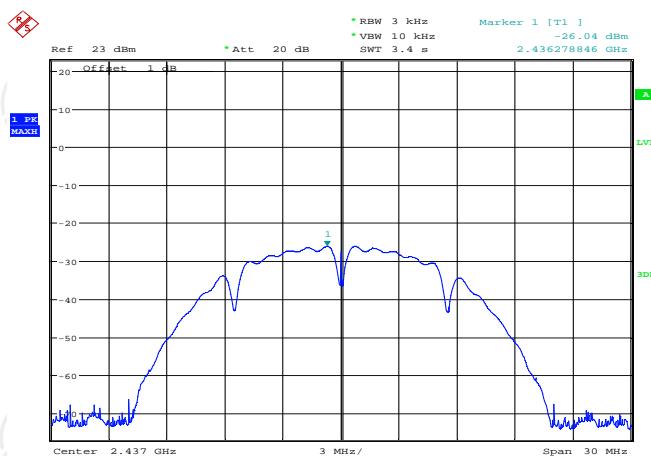
## 802.11b Modulation

### Lowest channel



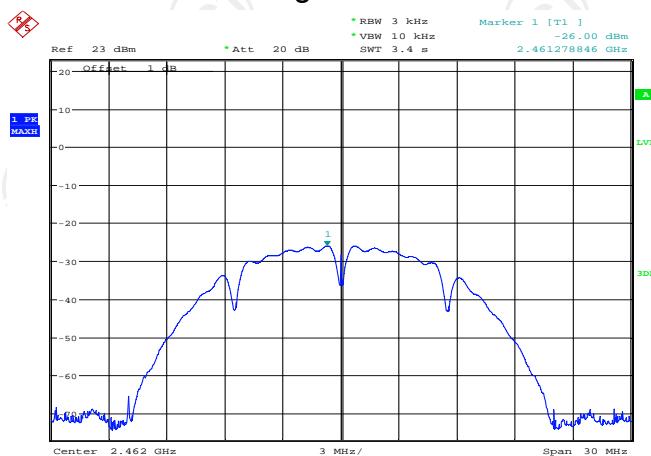
Date: 29.NOV.2016 15:43:57

### Middle channel



Date: 29.NOV.2016 15:45:59

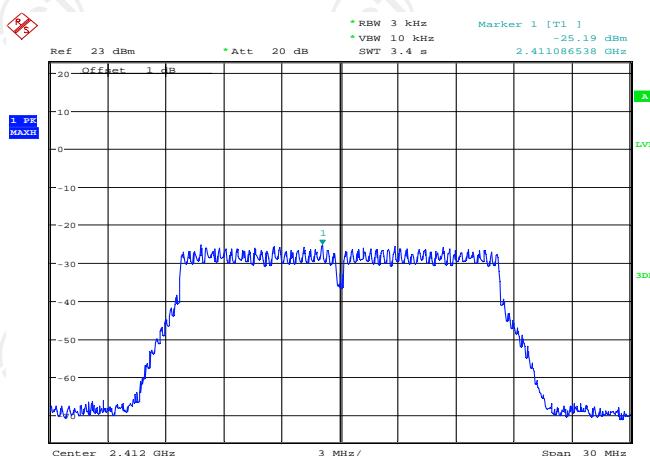
### Highest channel



Date: 29.NOV.2016 15:46:55

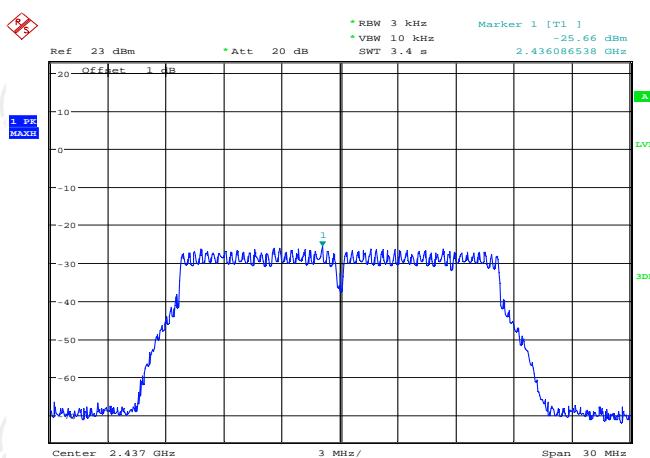
## 802.11g Modulation

### Lowest channel



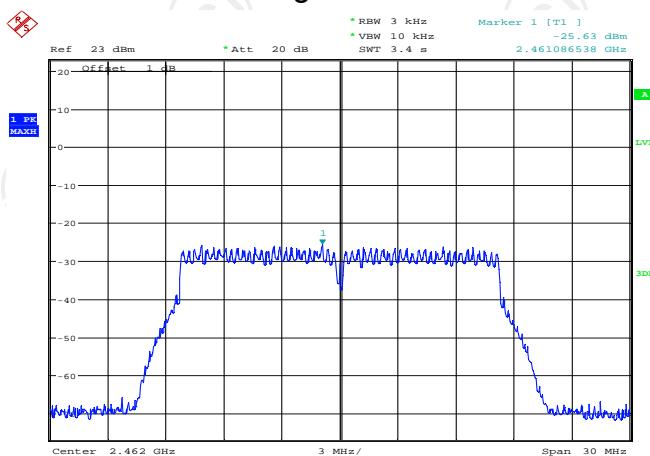
Date: 29.NOV.2016 15:49:13

### Middle channel



Date: 29.NOV.2016 15:50:39

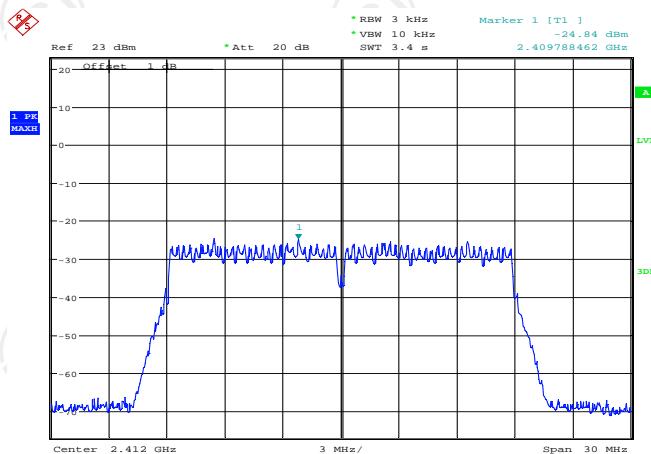
### Highest channel



Date: 29.NOV.2016 15:52:29

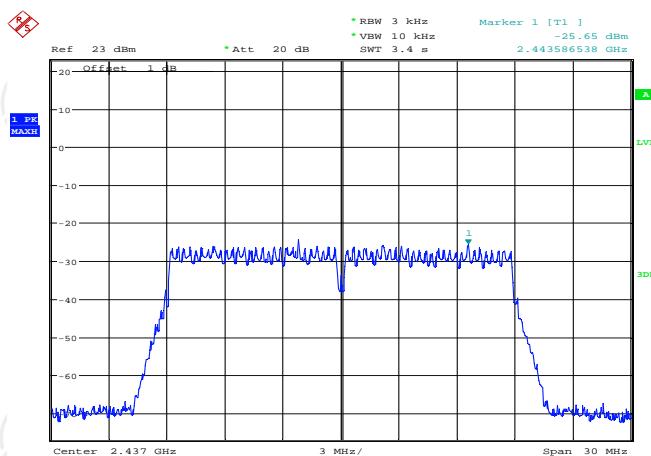
## 802.11n (HT20) Modulation

### Lowest channel



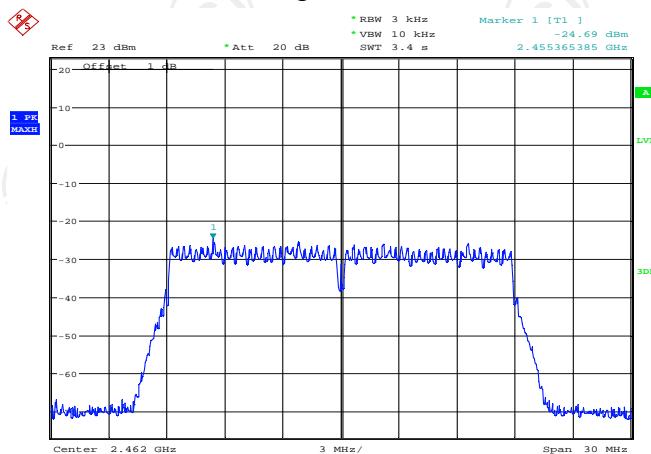
Date: 29.NOV.2016 15:54:53

### Middle channel



Date: 29.NOV.2016 15:55:42

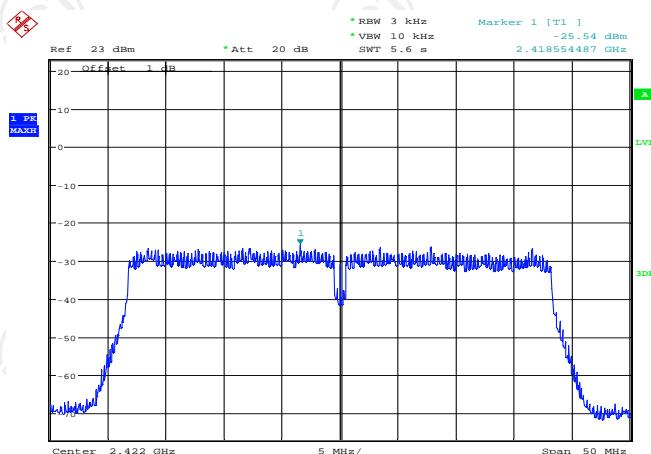
### Highest channel



Date: 29.NOV.2016 15:57:20

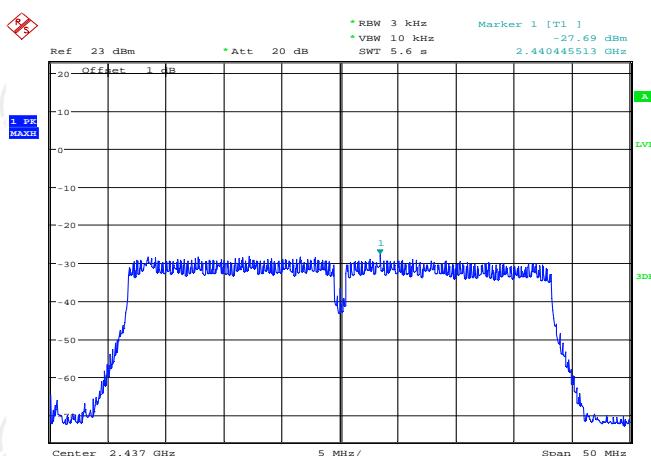
802.11n (HT40) Modulation

Lowest channel



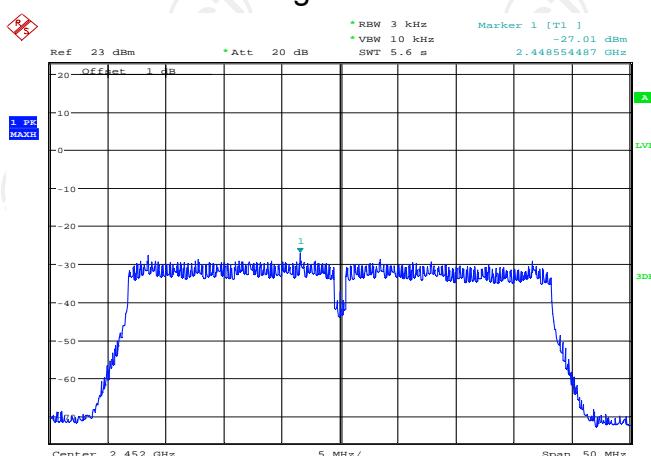
Date: 29.NOV.2016 15:59:47

Middle channel



Date: 29.NOV.2016 16:01:11

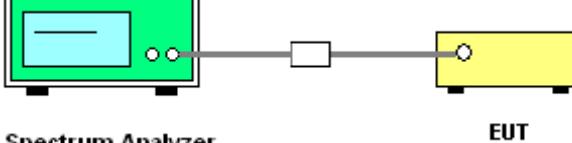
Highest channel



Date: 29.NOV.2016 16:02:40

## **6.5. Conducted Band Edge and Spurious Emission Measurement**

### **6.5.1. Test Specification**

<b>Test Requirement:</b>	FCC Part15 C Section 15.247 (d)
<b>Test Method:</b>	KDB558074
<b>Limit:</b>	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 and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
<b>Test Setup:</b>	 <p>The diagram illustrates the test setup. A green 'Spectrum Analyzer' is connected to a yellow 'EUT' (Equipment Under Test) through a grey 'RF cable'. A small white rectangular component, labeled 'Attenuator', is placed between the spectrum analyzer and the EUT.</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.</li> <li>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.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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).</li> <li>5. Measure and record the results in the test report.</li> <li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
<b>Test Result:</b>	PASS

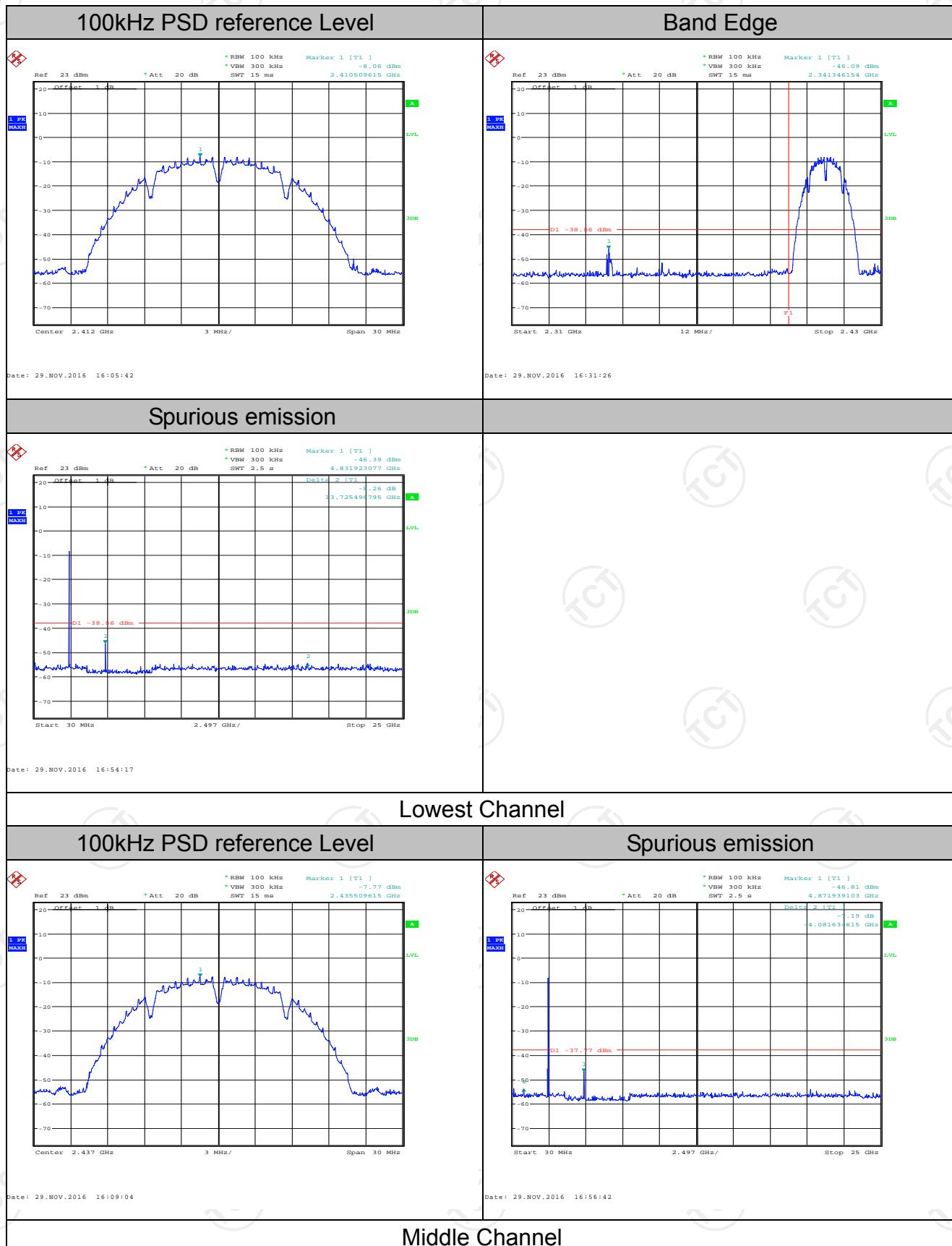
### 6.5.2. Test Instruments

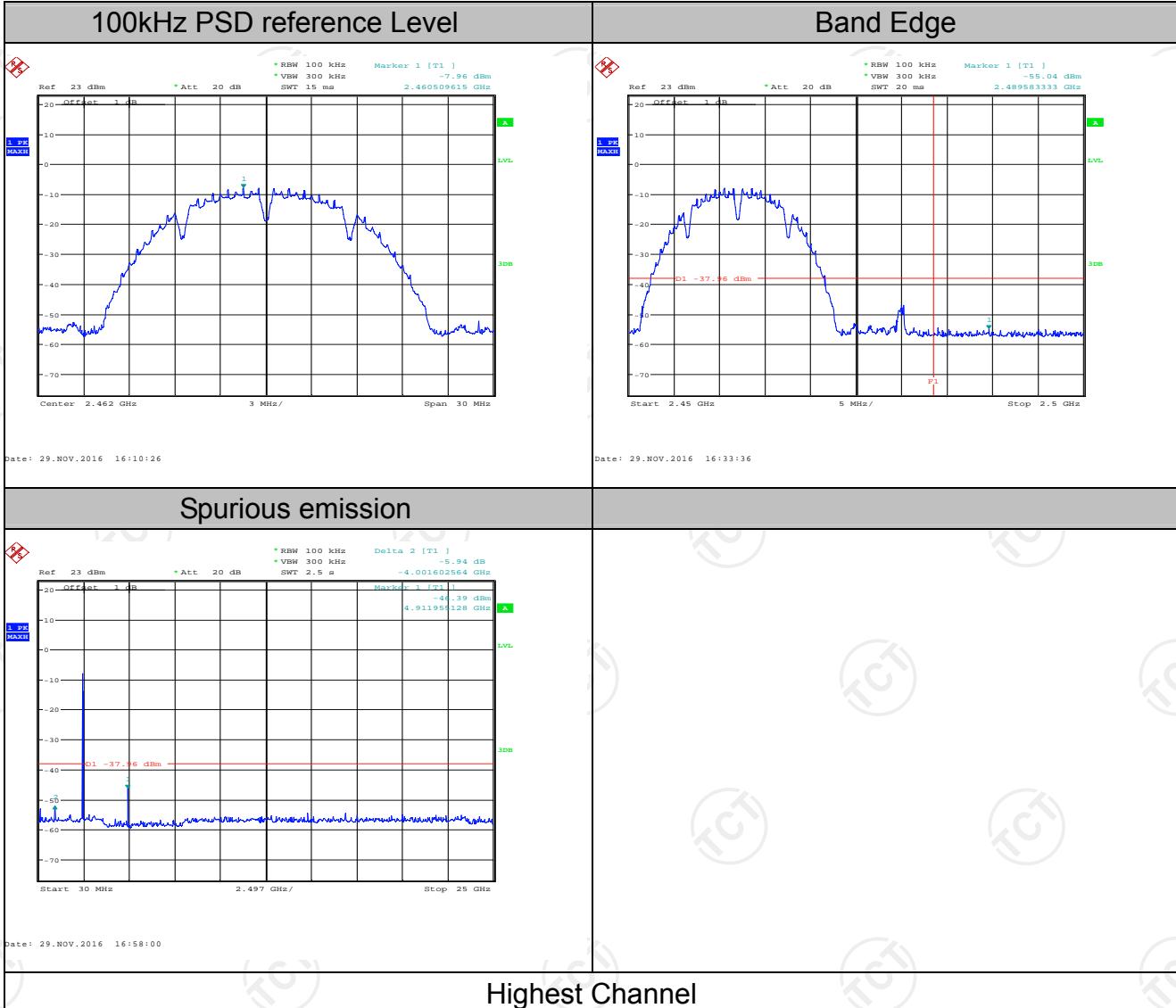
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017
RF cable (9kHz-40GHz)	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

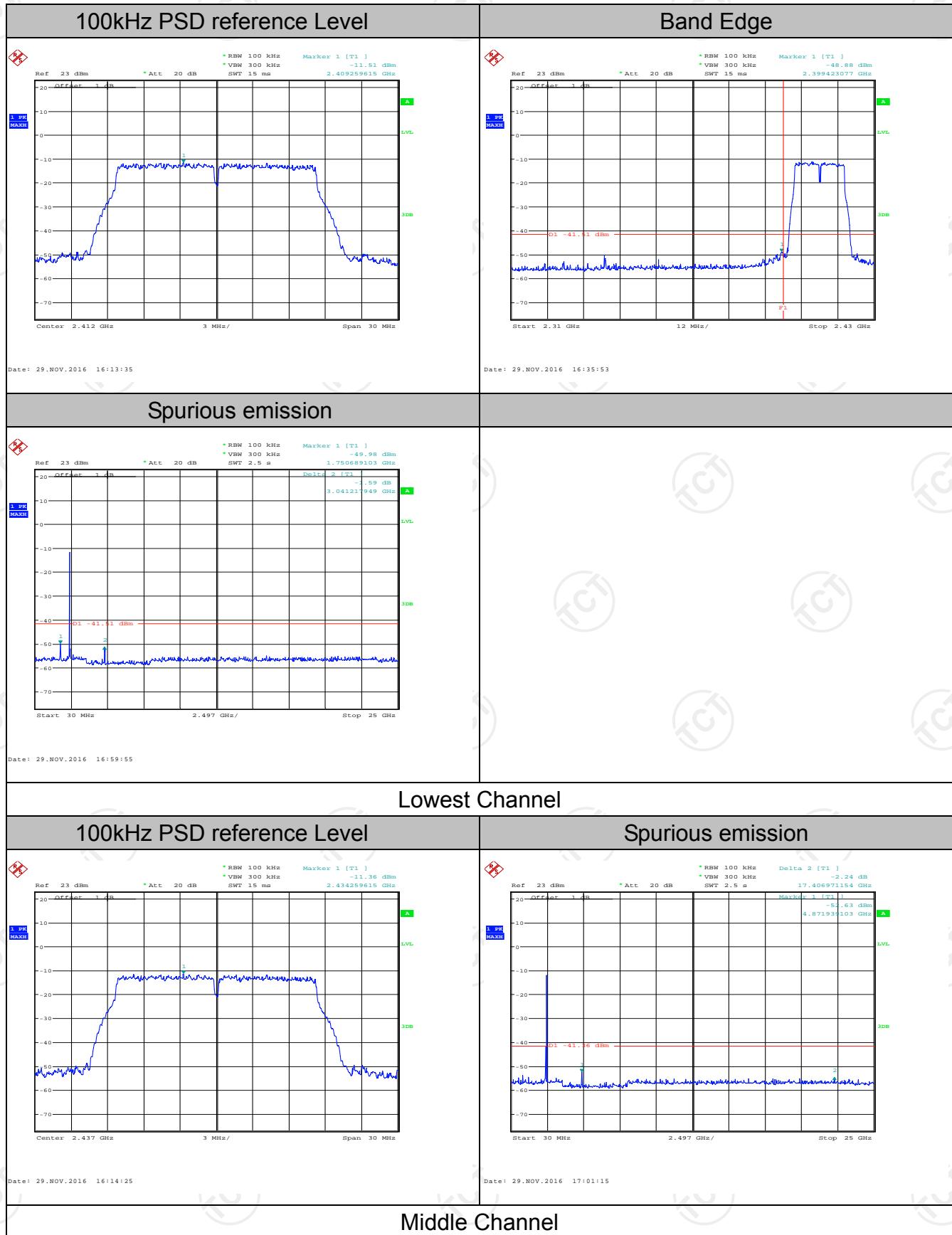
### 6.5.3. Test Data

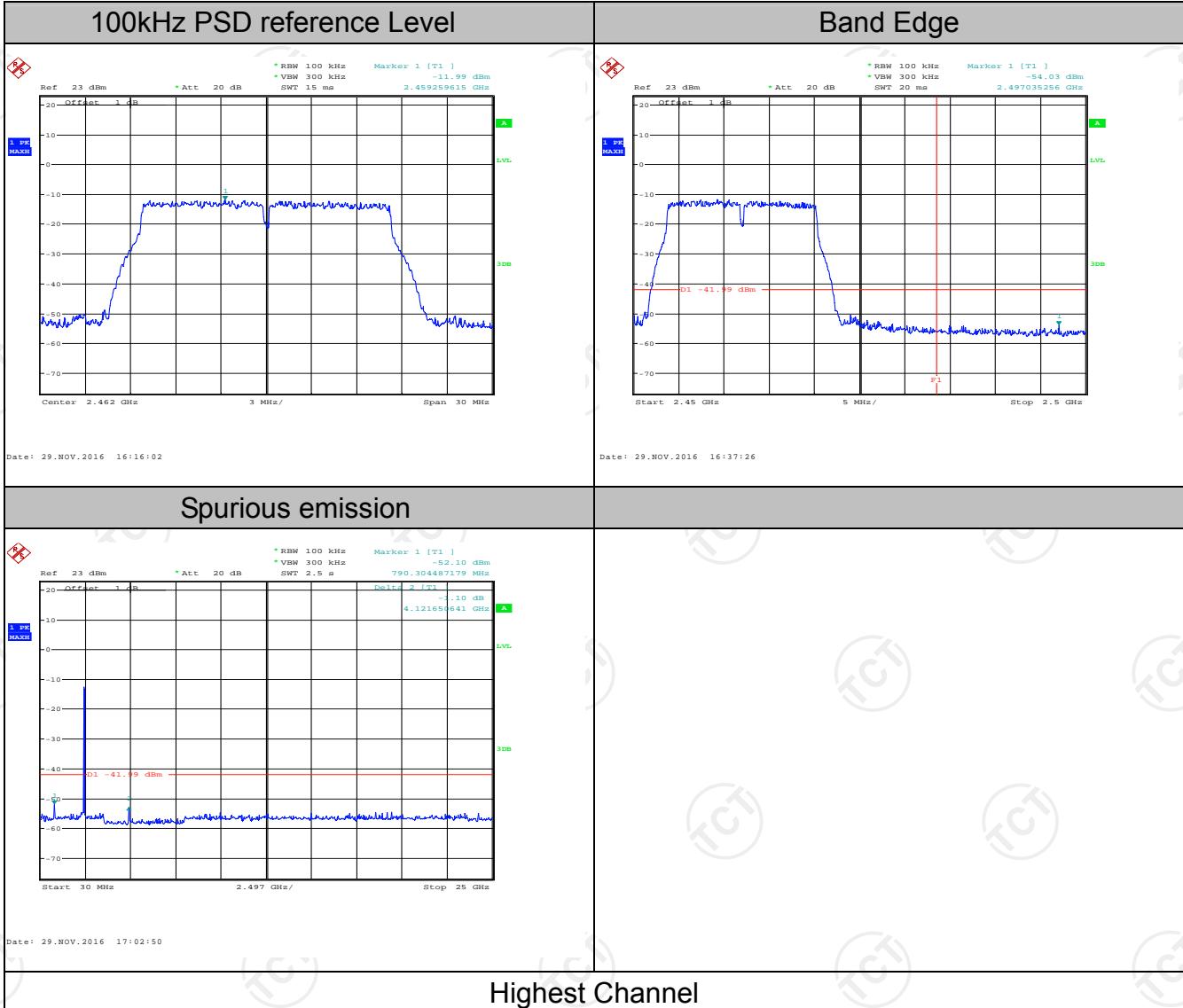
#### 802.11b Modulation



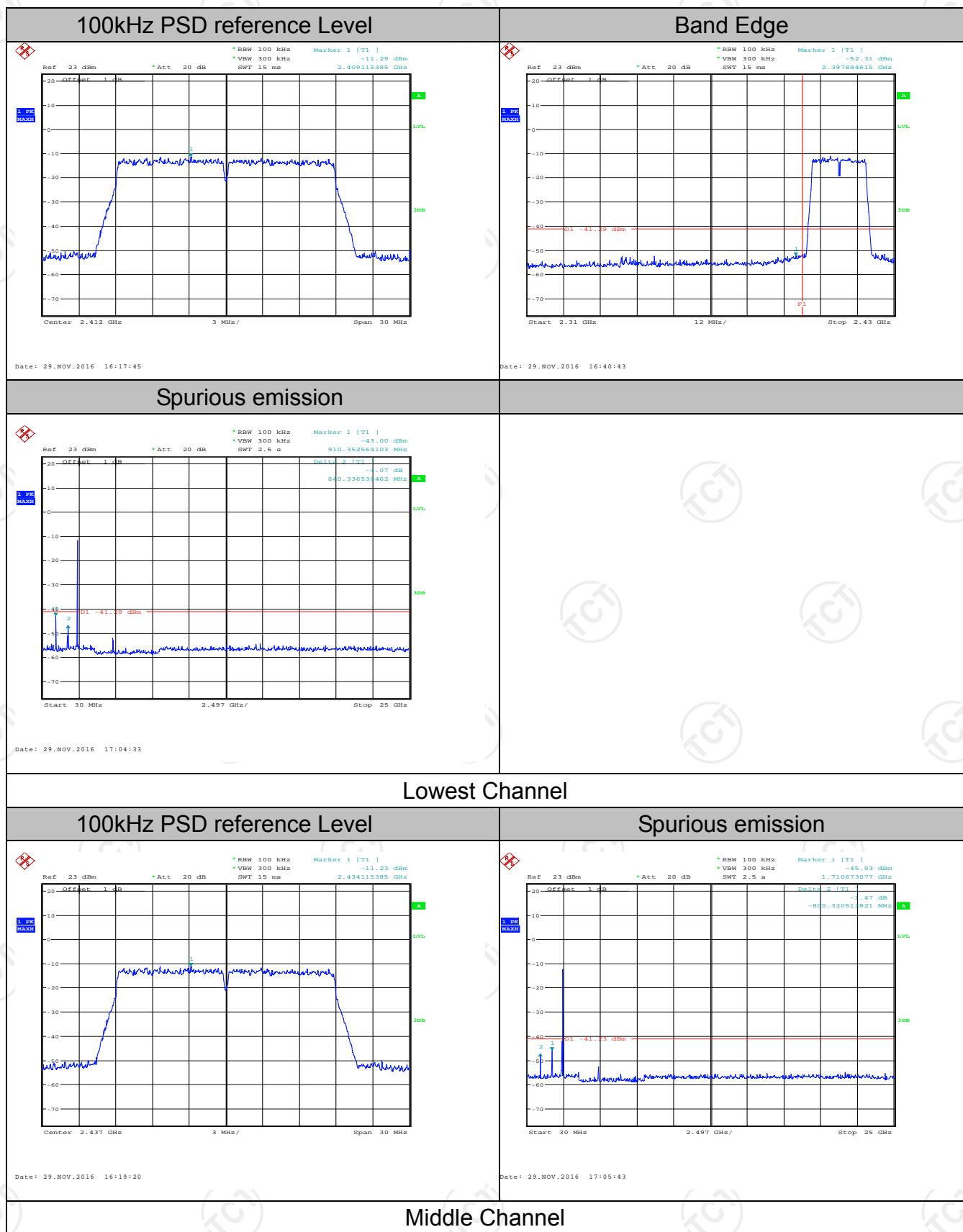


## 802.11g Modulation

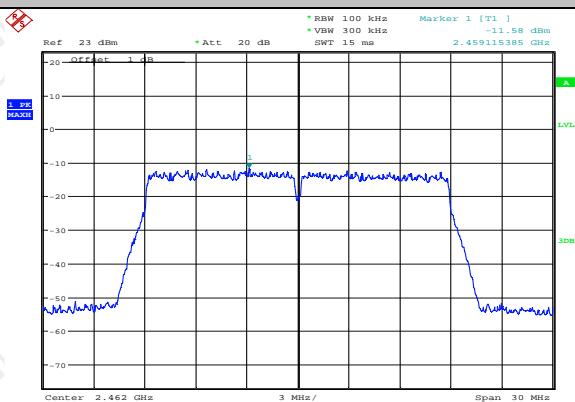




## 802.11n (HT20) Modulation

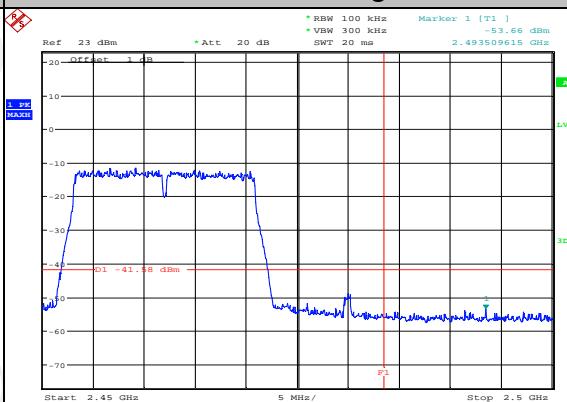


## 100kHz PSD reference Level



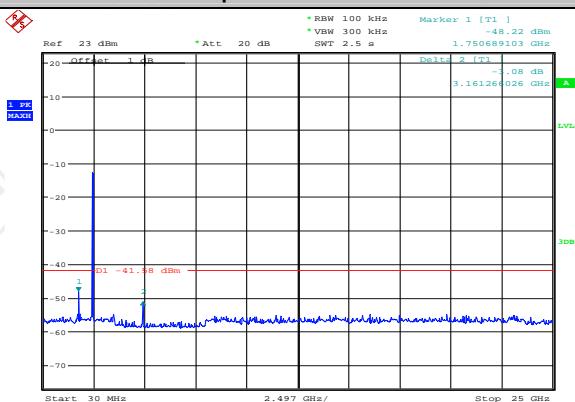
Date: 29.NOV.2016 16:24:14

## Band Edge



Date: 29.NOV.2016 16:42:05

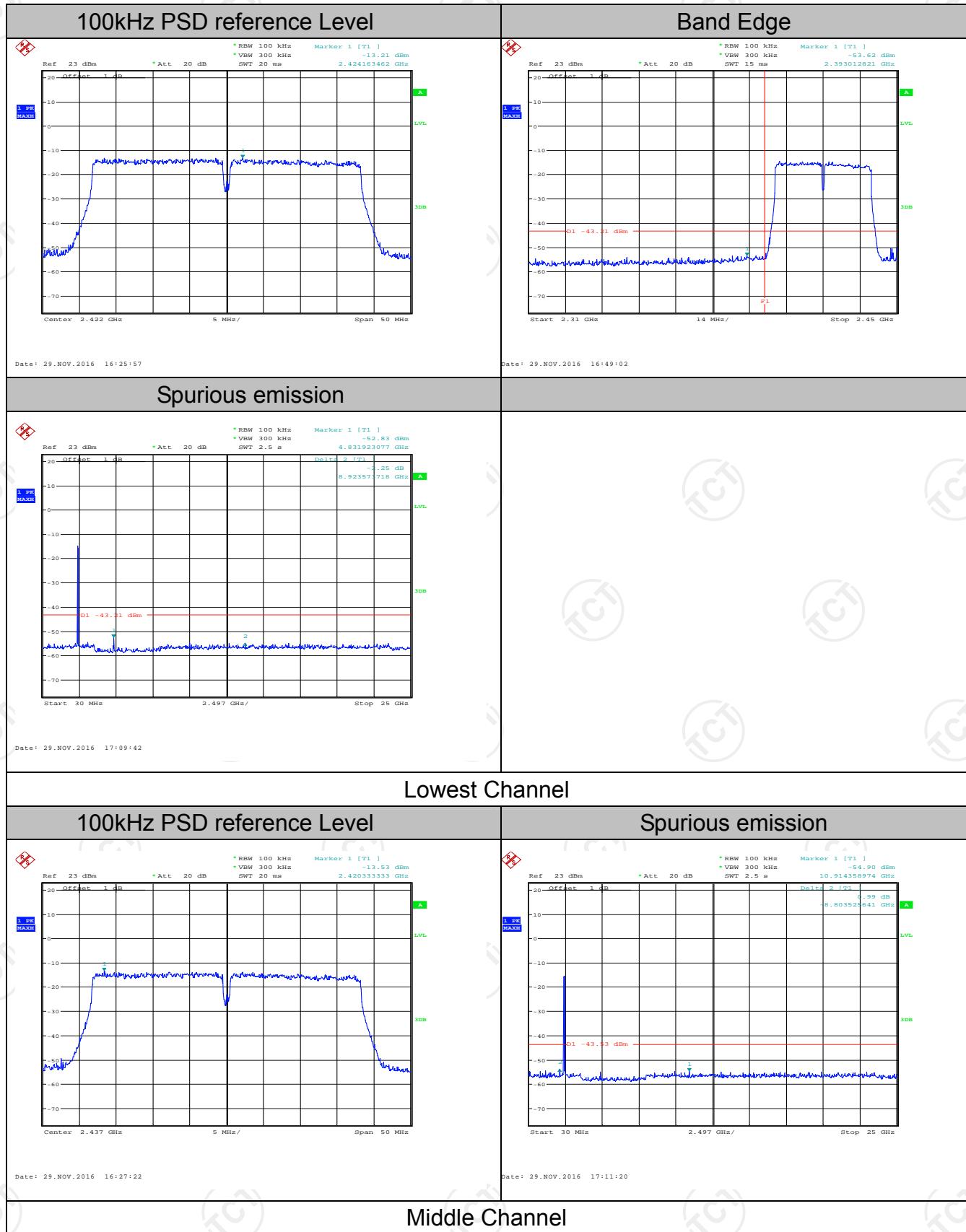
## Spurious emission

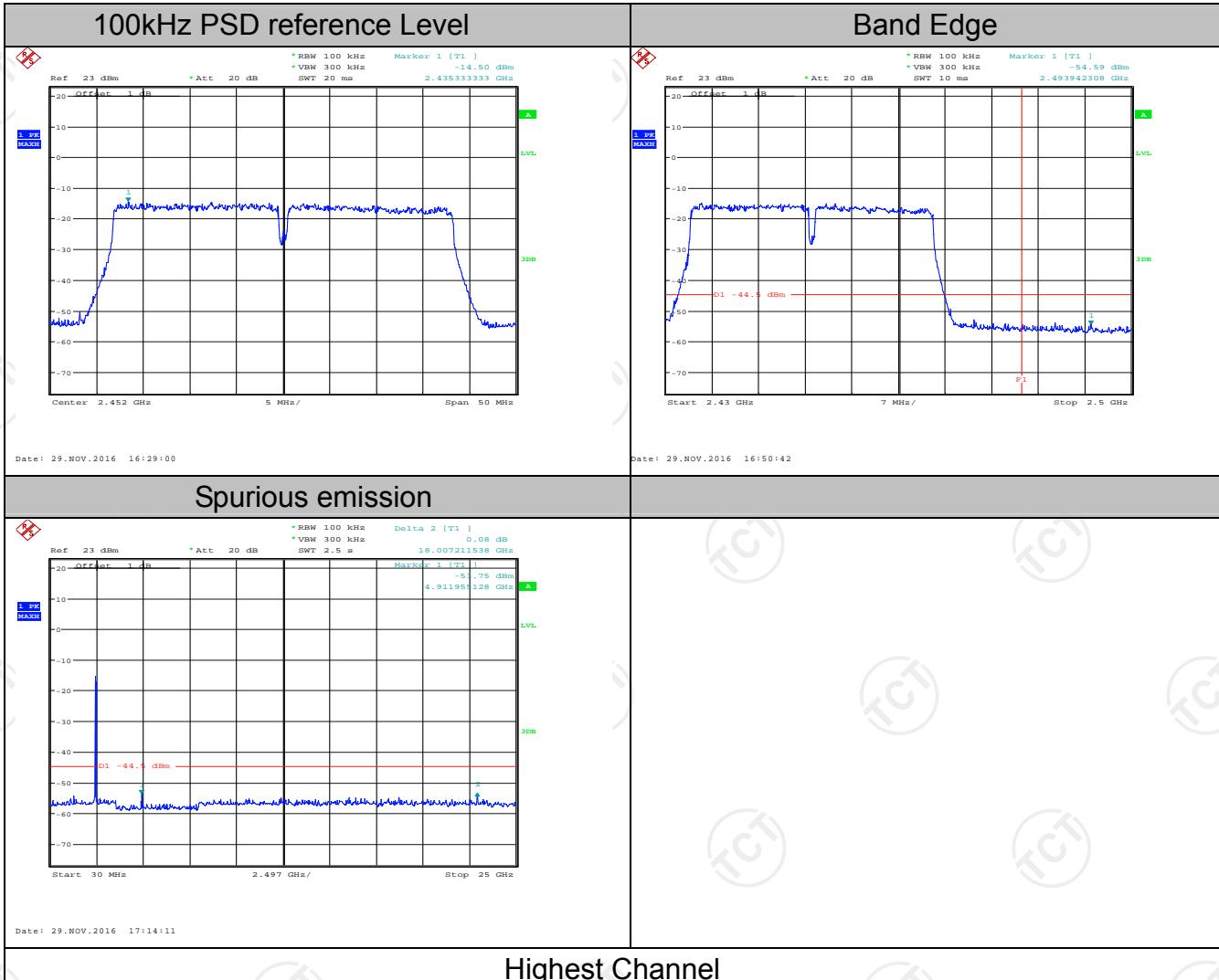


Date: 29.NOV.2016 17:07:48

## Highest Channel

## 802.11n (HT40) Modulation

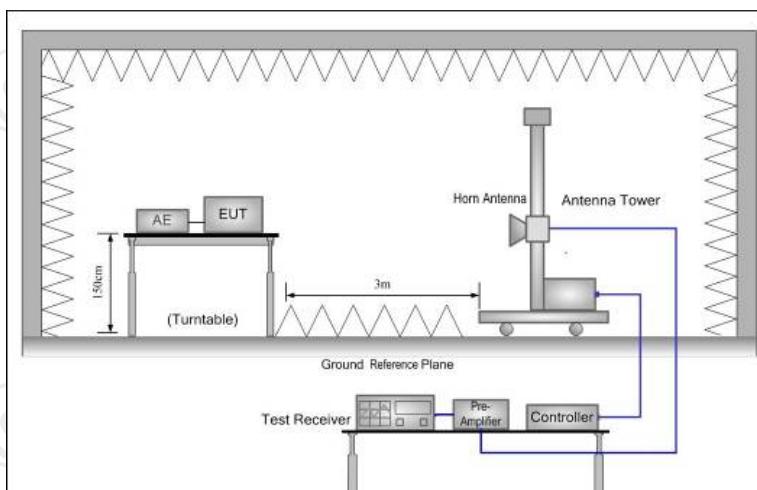
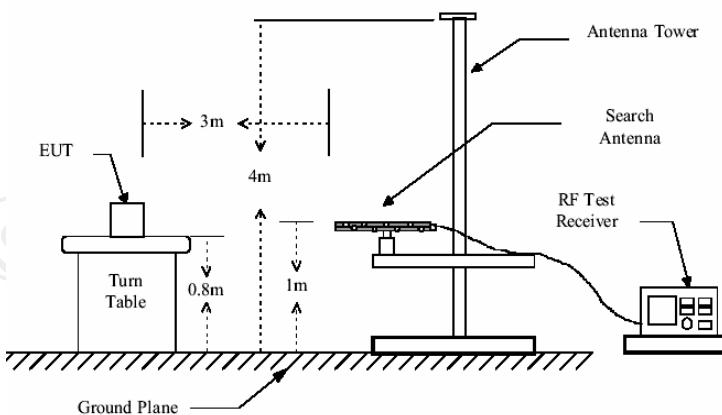




## 6.6. Radiated Spurious Emission Measurement

### 6.6.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.209						
<b>Test Method:</b>	ANSI C63.10: 2013						
<b>Frequency Range:</b>	9 kHz to 25 GHz						
<b>Measurement Distance:</b>	3 m						
<b>Antenna Polarization:</b>	Horizontal & Vertical						
<b>Operation mode:</b>	Transmitting mode with modulation						
<b>Receiver Setup:</b>	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
		Peak	1MHz	10Hz	Average Value		
<b>Limit:</b>	Frequency	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	30		30			
	30-88	100		3			
	88-216	150		3			
	216-960	200		3			
	Above 960	500		3			
	Frequency	Field Strength (microvolts/meter)		Measurement Distance (meters)	Detector		
	Above 1GHz	500		3	Average		
		5000		3	Peak		
<b>Test setup:</b>	For radiated emissions below 30MHz						
	30MHz to 1GHz						



#### Test Procedure:

- For the radiated emission test below 1GHz:  
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.  
For the radiated emission test above 1GHz:  
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for

	<p>receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"><li>(1) Span shall wide enough to fully capture the emission being measured;</li><li>(2) Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold;</li><li>(3) Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement.</li></ul> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. <math>VBW \geq 1/T</math>, 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.</p>
<b>Test results:</b>	PASS

### 6.6.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Coax cable (9kHz-40GHz)	TCT	RE-low-01	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	TCT	RE-high-02	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	TCT	RE-low-03	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	TCT	RE-High-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	N/A	Aug. 12, 2017
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

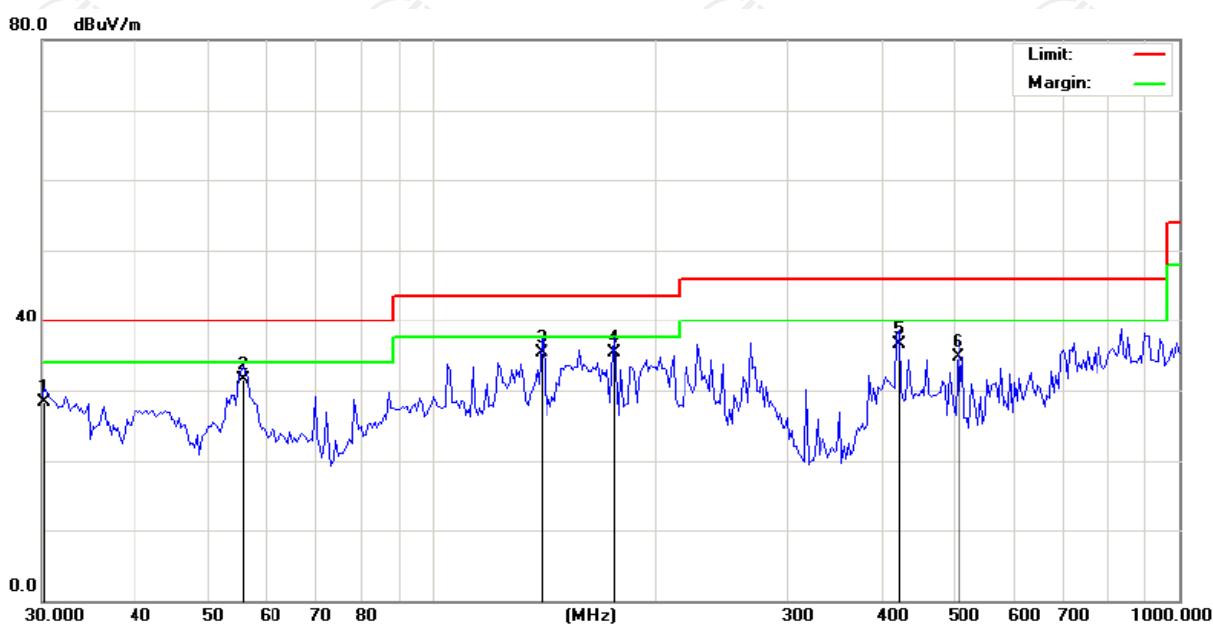
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.6.3. Test Data

Please refer to following diagram for individual

Below 1GHz

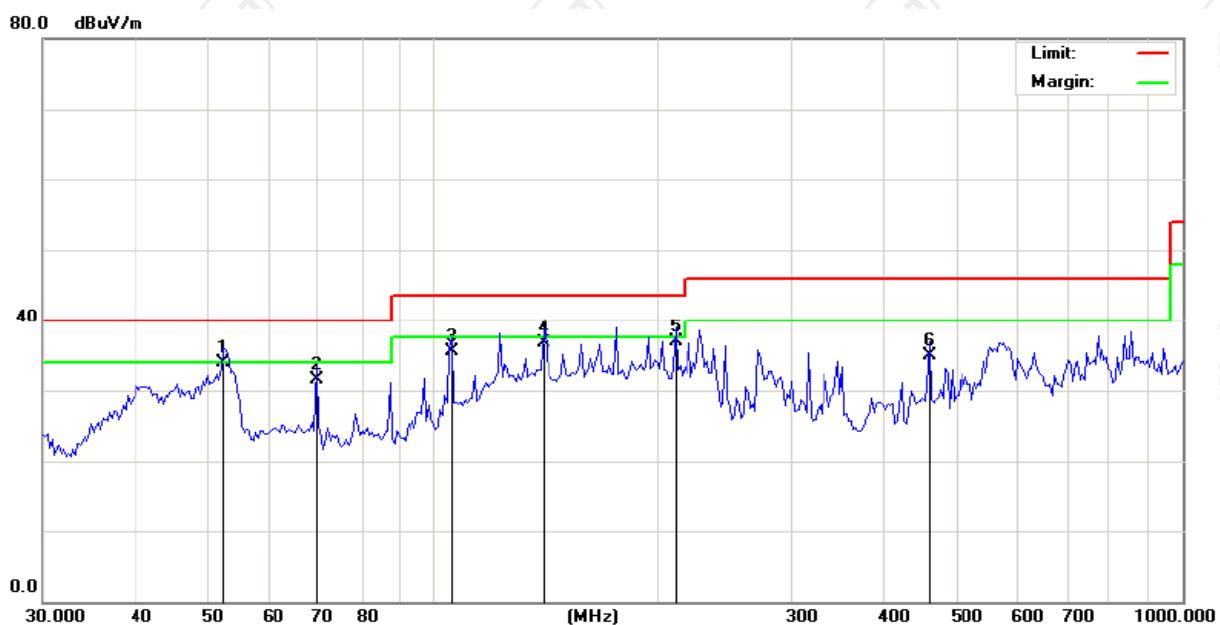
Horizontal:



Site	Polarization:	<b>Horizontal</b>	Temperature:	23
Limit: FCC Part 15B Class B RE_3 m	Power:	Humidity: 54 %		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		30.2116	40.50	-12.28	28.22	40.00	-11.78	QP		0	
2		55.6781	41.30	-9.85	31.45	40.00	-8.55	QP		0	
3		139.7906	50.60	-15.30	35.30	43.50	-8.20	QP		0	
4	*	175.0404	48.30	-12.95	35.35	43.50	-8.15	QP		0	
5		421.3287	39.80	-3.26	36.54	46.00	-9.46	QP		0	
6		505.7891	36.50	-1.80	34.70	46.00	-11.30	QP		0	

Vertical:



Site	Polarization:	Vertical	Temperature:	23
Limit: FCC Part 15B Class B RE_3 m	Power:		Humidity:	54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	52.2660	43.10	-9.23	33.87	40.00	-6.13	QP		0
2		69.7180	45.10	-13.65	31.45	40.00	-8.55	QP		0
3		105.5370	44.80	-9.31	35.49	43.50	-8.01	QP		0
4		139.7906	52.00	-15.30	36.70	43.50	-6.80	QP		0
5		210.1294	48.30	-11.41	36.89	43.50	-6.61	QP		0
6		458.3987	38.10	-3.23	34.87	46.00	-11.13	QP		0

**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

**Test Result of Radiated Spurious at Band edges**

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2310	H	45.06	-4.20	40.86	74.00	54.00
2377.38	H	48.35	-4.10	44.25	74.00	54.00
2390	H	51.29	-3.94	47.35	74.00	54.00
2310	V	43.18	-4.20	38.98	74.00	54.00
2377.38	V	52.07	-4.10	47.97	74.00	54.00
2390	V	53.26	-3.94	49.32	74.00	54.00

Modulation Type: 802.11b

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2483.5	H	51.24	-3.60	47.64	74.00	54.00
2487.09	H	46.72	-3.50	43.22	74.00	54.00
2500	H	45.08	-3.34	41.74	74.00	54.00
2483.5	V	52.53	-3.60	48.93	74.00	54.00
2487.09	V	47.21	-3.50	43.71	74.00	54.00
2500	V	43.95	-3.34	40.61	74.00	54.00

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2310	H	41.05	-4.20	36.85	74.00	54.00
2388.96	H	52.18	-4.12	48.06	74.00	54.00
2390	H	52.49	-3.94	48.55	74.00	54.00
2310	V	47.96	-4.20	43.76	74.00	54.00
2388.96	V	51.84	-4.12	47.72	74.00	54.00
2390	V	52.05	-3.94	48.11	74.00	54.00

Modulation Type: 802.11g

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2483.5	H	50.39	-3.60	46.79	74.00	54.00
2487.59	H	48.05	-3.52	44.53	74.00	54.00
2500	H	48.96	-3.34	45.62	74.00	54.00
2483.5	V	49.67	-3.60	46.07	74.00	54.00
2487.59	V	49.05	-3.52	45.53	74.00	54.00
2500	V	48.16	-3.34	44.82	74.00	54.00

Modulation Type: 802.11n(20MHz)

Low channel: 2412 MHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2310	H	47.53	-4.20	43.33	74.00	54.00
2388.01	H	51.06	-4.10	46.96	74.00	54.00
2390	H	52.59	-3.94	48.65	74.00	54.00
2310	V	48.32	-4.20	44.12	74.00	54.00
2388.01	V	53.61	-4.10	49.51	74.00	54.00
2390	V	54.57	-3.94	50.63	74.00	54.00

Modulation Type: 802.11n(20MHz)

High channel: 2462 MHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2483.5	H	50.73	-3.60	47.13	74.00	54.00
2392.55	H	50.68	-3.50	47.18	74.00	54.00
2500	H	48.99	-3.34	45.65	74.00	54.00
2483.5	V	54.16	-3.60	50.56	74.00	54.00
2392.55	V	51.24	-3.50	47.74	74.00	54.00
2500	V	49.05	-3.34	45.71	74.00	54.00

Modulation Type: 802.11n(40MHz)

Low channel: 2422 MHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2310	H	45.06	-4.20	40.86	74.00	54.00
2388.01	H	50.92	-4.10	46.82	74.00	54.00
2390	H	52.17	-3.94	48.23	74.00	54.00
2310	V	50.83	-4.20	46.63	74.00	54.00
2388.01	V	51.29	-4.10	47.19	74.00	54.00
2390	V	53.28	-3.94	49.34	74.00	54.00

Modulation Type: 802.11n(40MHz)

Low channel: 2452 MHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)
2483.5	H	53.06	-3.60	49.46	74.00	54.00
2392.55	H	50.72	-3.50	47.22	74.00	54.00
2500	H	48.91	-3.34	45.57	74.00	54.00
2483.5	V	54.53	-3.60	50.93	74.00	54.00
2392.55	V	51.27	-3.50	47.77	74.00	54.00
2500	V	49.61	-3.34	46.27	74.00	54.00

**Note:**

1. Peak Final Emission Level=Peak Reading + Correction Factor;
2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

**Above 1GHz**

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4824	H	49.36	---	0.75	50.11	---	74	54	-3.89
7236	H	40.17	---	9.87	50.04	---	74	54	-3.96
---	H	---	---	---	---	---	---	---	---
4824	V	50.09	---	0.75	50.84	---	74	54	-3.16
7236	V	42.38	---	9.87	52.25	---	74	54	-1.75
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4874	H	50.66	---	0.97	51.63	---	74	54	-2.37
7311	H	42.23	---	9.83	52.06	---	74	54	-1.94
---	H	---	---	---	---	---	---	---	---
4874	V	49.19	---	0.97	50.16	---	74	54	-3.84
7311	V	41.05	---	9.83	50.88	---	74	54	-3.12
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4924	H	50.13	---	1.18	51.31	---	74	54	-2.69
7386	H	40.78	---	10.07	50.85	---	74	54	-3.15
---	H	---	---	---	---	---	---	---	---
4924	V	50.68	---	1.18	51.86	---	74	54	-2.14
7386	V	41.27	---	10.07	51.34	---	74	54	-2.66
---	V	---	---	---	---	---	---	---	---

**Note:**

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---”in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4824	H	50.49	---	0.75	51.24	---	74	54	-2.76
7236	H	41.75	---	9.87	51.62	---	74	54	-2.38
---	H	---	---	---	---	---	---	---	---
4824	V	48.62	---	0.75	49.37	---	74	54	-4.63
7236	V	41.78	---	9.87	51.65	---	74	54	-2.35
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4874	H	49.38	---	0.97	50.35	---	74	54	-3.65
7311	H	41.23	---	9.83	51.06	---	74	54	-2.94
---	H	---	---	---	---	---	---	---	---
4874	V	48.51	---	0.97	49.48	---	74	54	-4.52
7311	V	41.69	---	9.83	51.52	---	74	54	-2.48
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4924	H	48.87	---	1.18	50.05	---	74	54	-3.95
7386	H	40.16	---	10.07	50.23	---	74	54	-3.77
---	H	---	---	---	---	---	---	---	---
4924	V	47.63	---	1.18	48.81	---	74	54	-5.19
7386	V	41.35	---	10.07	51.42	---	74	54	-2.58
---	V	---	---	---	---	---	---	---	---

**Note:**

3. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
4. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
7. Data of measurement shown “---”in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4824	H	50.19	---	0.75	50.94	---	74	54	-3.06
7236	H	41.35	---	9.87	51.22	---	74	54	-2.78
---	H	---	---	---	---	---	---	---	---
4824	V	48.62	---	0.75	49.37	---	74	54	-4.63
7236	V	41.21	---	9.87	51.08	---	74	54	-2.92
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4874	H	48.31	---	0.97	49.28	---	74	54	-4.72
7311	H	41.59	---	9.83	51.42	---	74	54	-2.58
---	H	---	---	---	---	---	---	---	---
4874	V	48.05	---	0.97	49.02	---	74	54	-4.98
7311	V	40.32	---	9.83	50.15	---	74	54	-3.85
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4924	H	49.27	---	1.18	50.45	---	74	54	-3.55
7386	H	41.85	---	10.07	51.92	---	74	54	-2.08
---	H	---	---	---	---	---	---	---	---
4924	V	48.13	---	1.18	49.31	---	74	54	-4.69
7386	V	41.52	---	10.07	51.59	---	74	54	-2.41
---	V	---	---	---	---	---	---	---	---

## Modulation Type: 802.11n (HT40)

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4844.00	H	49.43	---	0.75	50.18	---	74	54	-3.82
7266.00	H	39.67	---	9.87	49.54	---	74	54	-4.46
---	H	---	---	---	---	---	---	---	---
4844.00	V	48.12	---	0.75	48.87	---	74	54	-5.13
7266.00	V	39.62	---	9.87	49.49	---	74	54	-4.51
---	V	---	---	---	---	---	---	---	---

## Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4874.00	H	49.42	---	0.97	50.39	---	74	54	-3.61
7311.00	H	40.13	---	9.83	49.96	---	74	54	-4.04
---	H	---	---	---	---	---	---	---	---
4874.00	V	48.35	---	0.97	49.32	---	74	54	-4.68
7311.00	V	40.13	---	9.83	49.96	---	74	54	-4.04
---	V	---	---	---	---	---	---	---	---

## High channel: 2452 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4904.00	H	49.06	---	1.18	50.24	---	74	54	-3.76
7356.00	H	40.15	---	10.07	50.22	---	74	54	-3.78
---	H	---	---	---	---	---	---	---	---
4904.00	V	49.07	---	1.18	50.25	---	74	54	-3.75
7356.00	V	40.15	---	10.07	50.22	---	74	54	-3.78
---	V	---	---	---	---	---	---	---	---

**Note:**

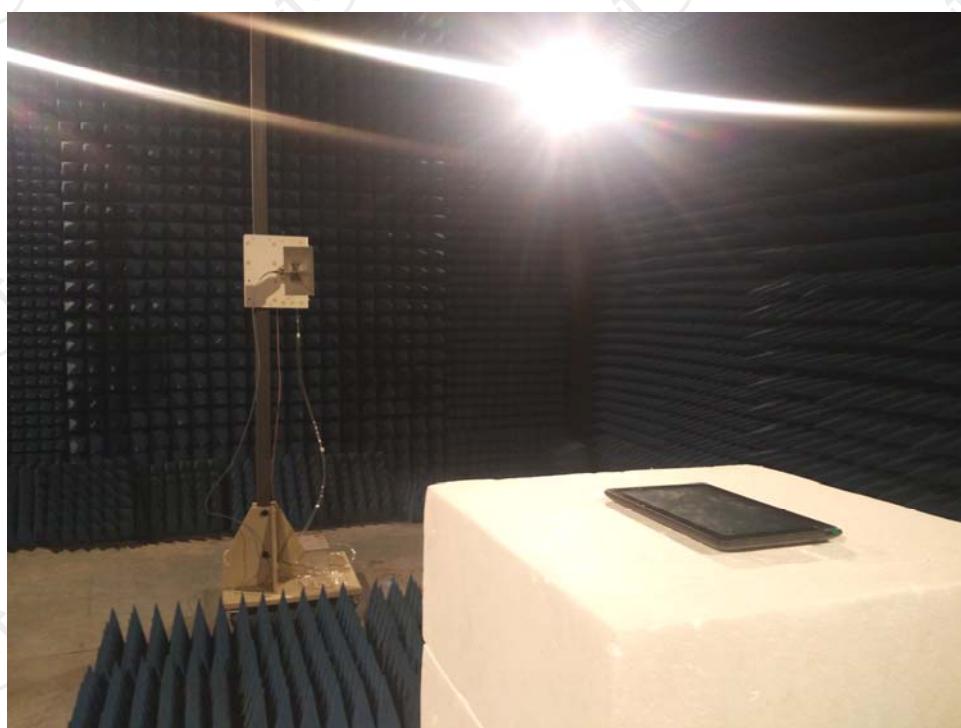
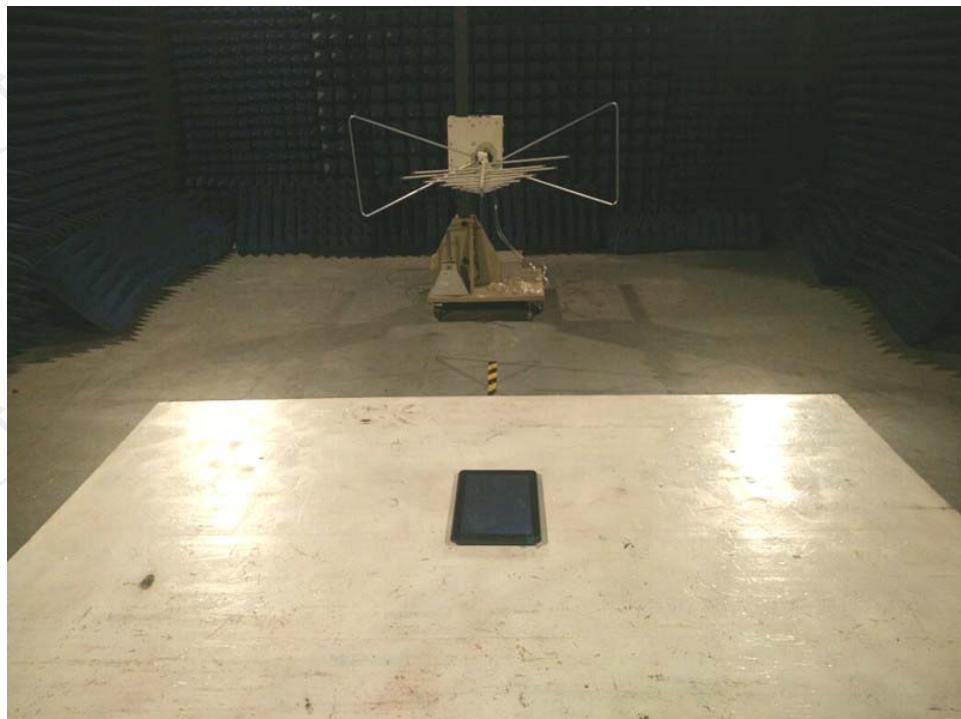
1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---”in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

## Appendix A: Photographs of Test Setup

Product: TABLET PC

Model: PLT9999G

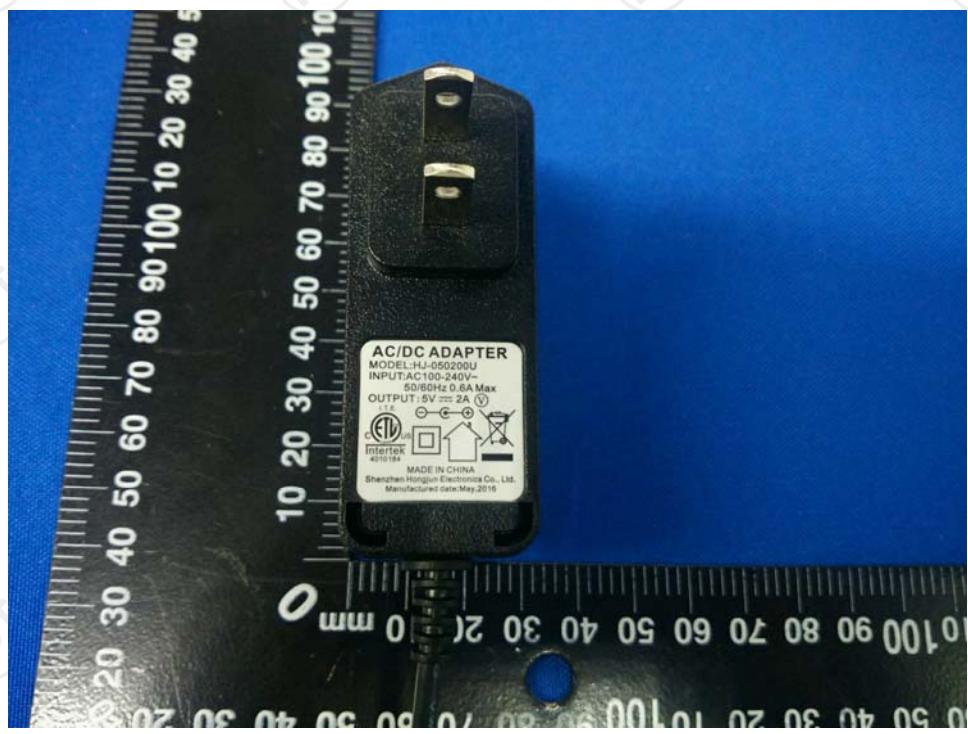
Radiated Emission



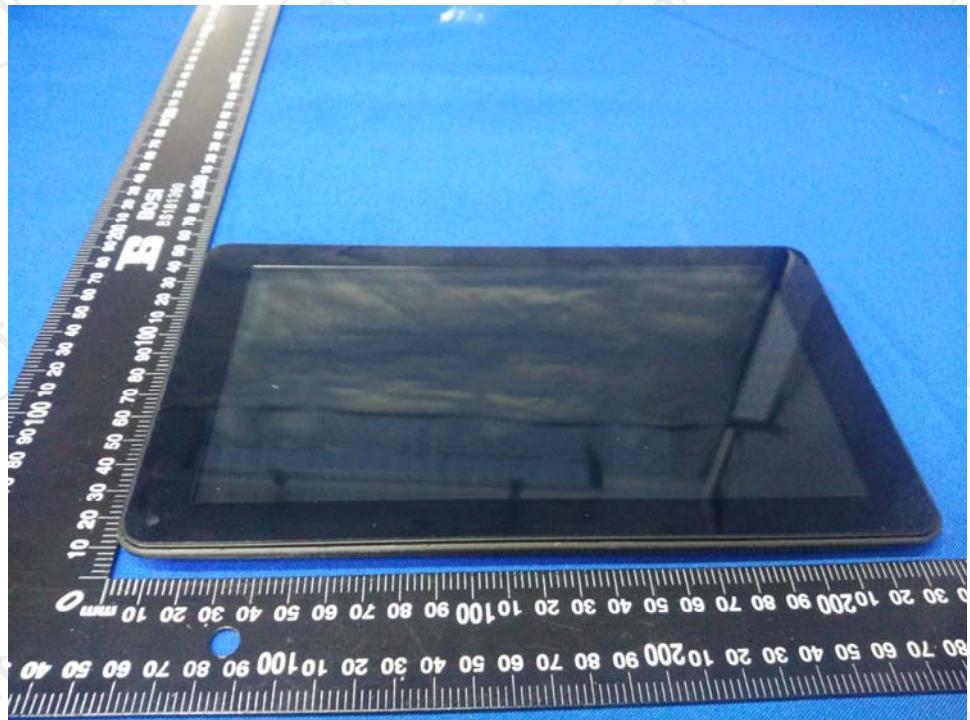
CE

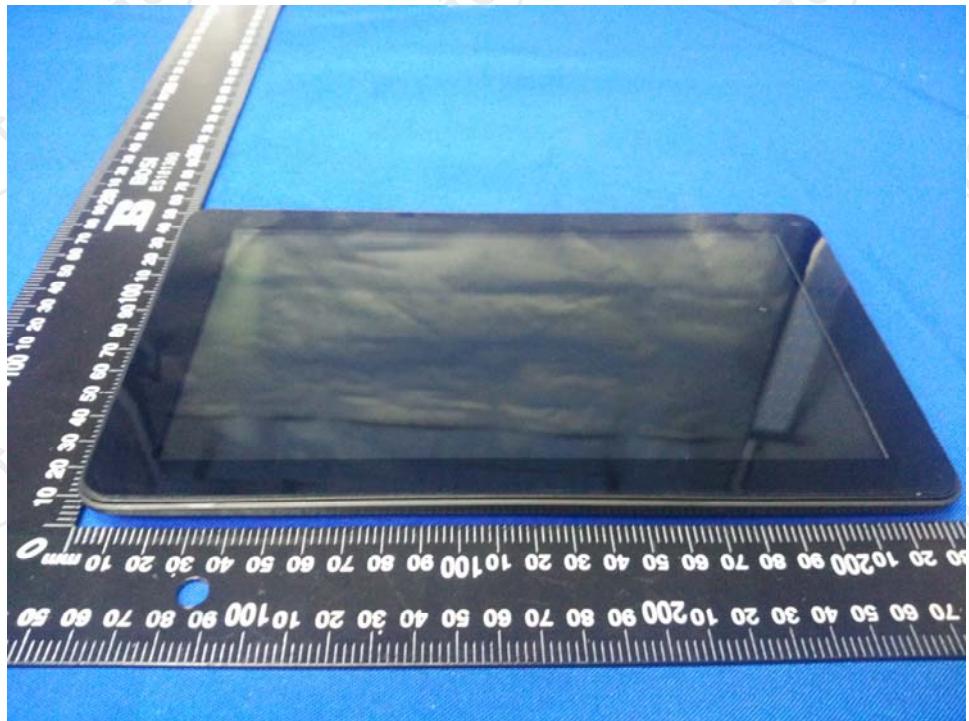


**Appendix B: Photographs of EUT**  
**Product: TABLET PC**  
**Model: PLT9999G**  
**External Photos**



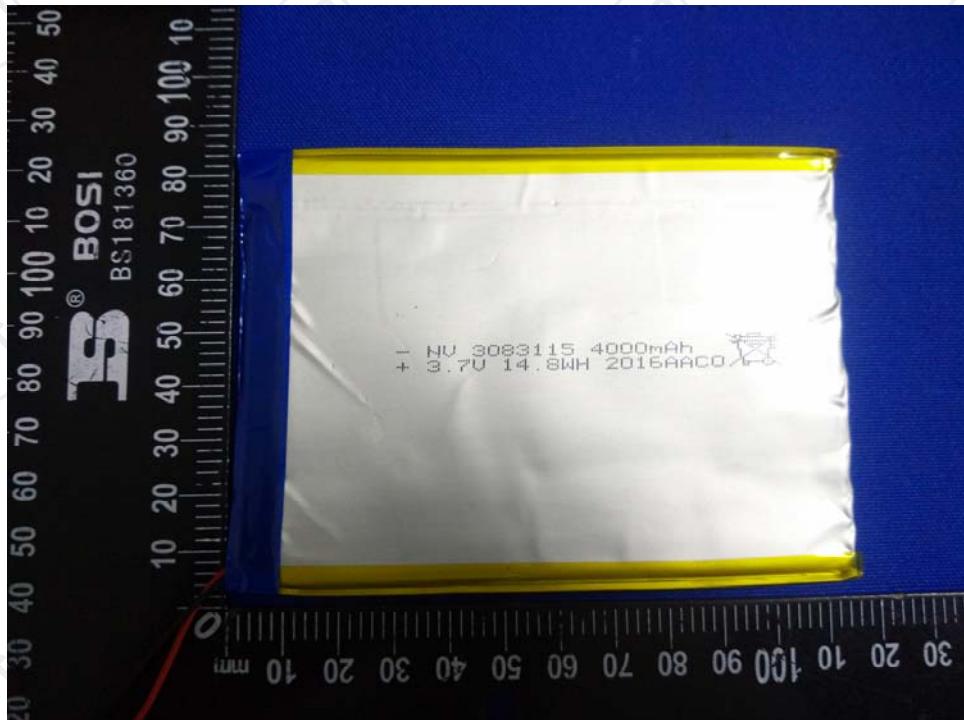
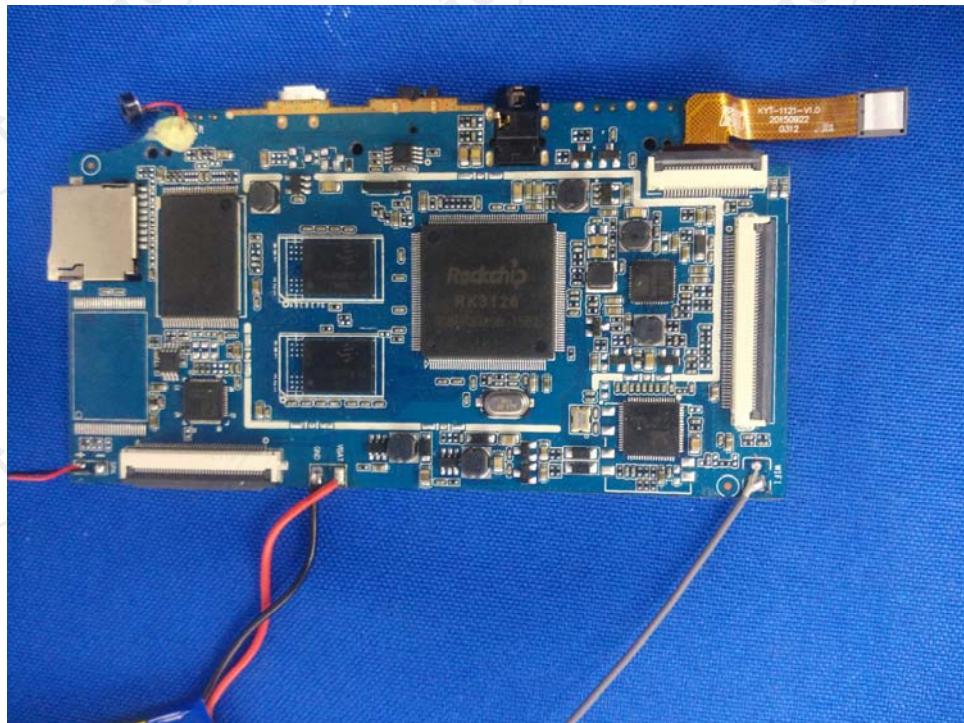


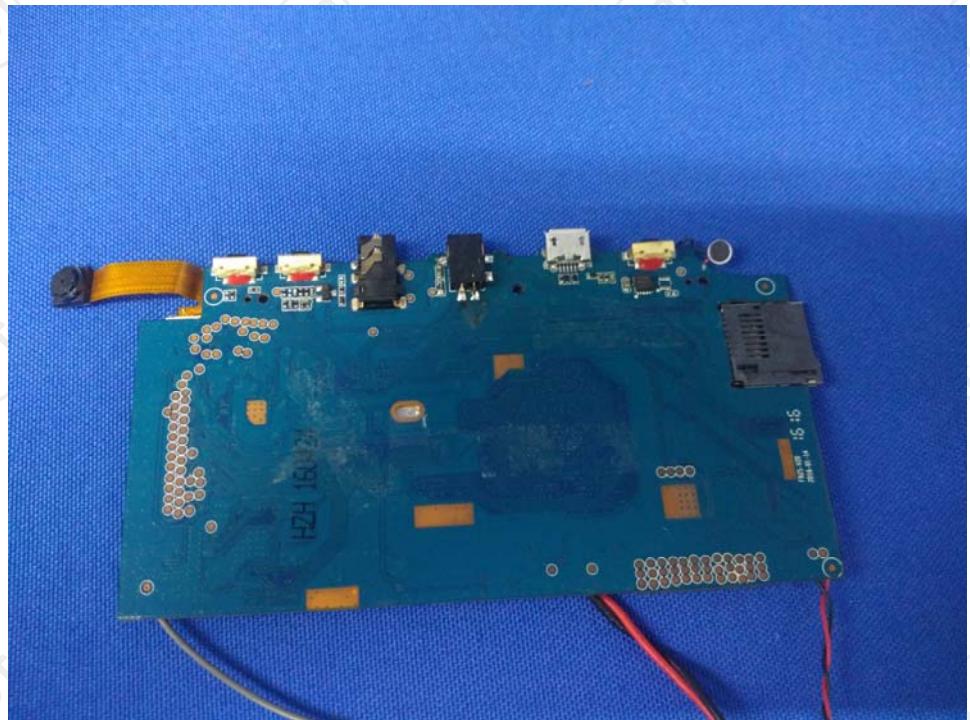
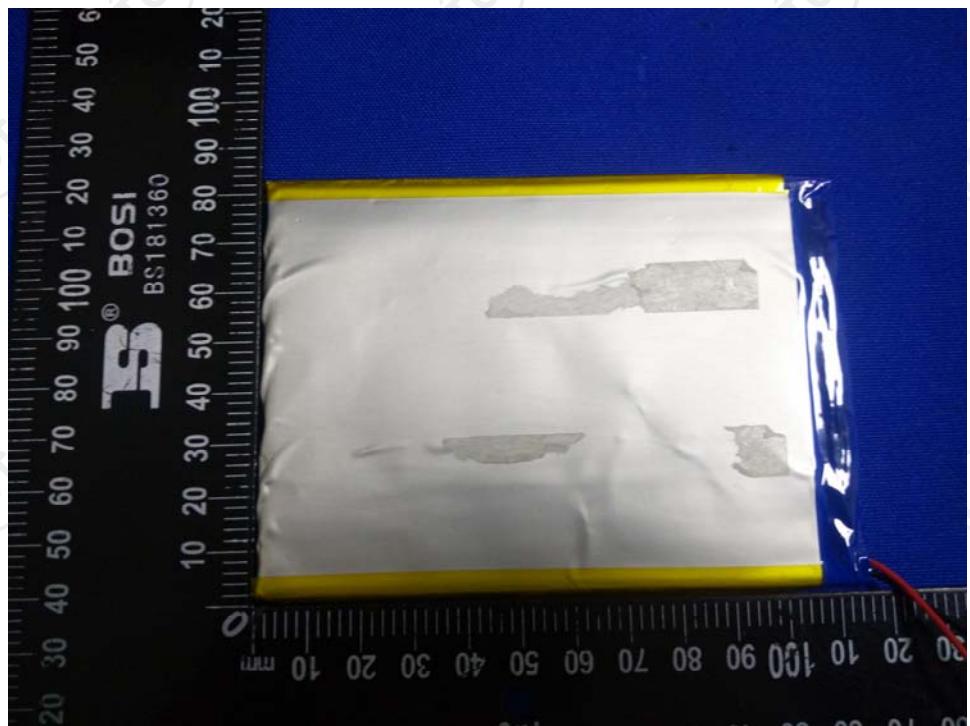




**Model: PLT9999G  
Internal Photos**







\*\*\*\*\***END OF REPORT**\*\*\*\*\*