



REPORT No.: SZ16100102W03

# FCC RF TEST REPORT

APPLICANT : Fourier Systems Inc

PRODUCT NAME : Tablet PC

MODEL NAME : ENTAB2, einstein II+, E892

TRADE NAME : einstein

BRAND NAME : einstein

FCC ID : 2AAKDEINSX02

STANDARD(S) : 47 CFR Part 15 Subpart C

ISSUE DATE : 2016-11-15



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2016-11-15	First edition



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**TEST REPORT DECLARATION**

Applicant	Fourier Systems Inc
Applicant Address	16 Hamelacha Street, Rosh Ha'ayin 48091, Israel
Manufacturer Address	Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
Manufacturer	4/F,6/F South, Skyworth Industrial Park, Shiyan Bao'an District, Shenzhen, Guangdong
Product Name	Tablet PC
Model Name	ENTAB2, einstein II+, E892
Brand Name	einstein
HW Version	V10
SW Version	5.1.1
Test Standards	47 CFR Part 15 Subpart C
Test Date	2016-10-31 to 2016-11-16
Test Result	PASS

Tested by : Zou Jian  
Zou Jian

Reviewed by : Qiu Xiaojun  
Qiu Xiaojun

Approved by : Peng Huarui  
Peng Huarui





## 1. TECHNICAL INFORMATION

Note: Provide by applicant.

### 1.1 Applicant Information

Company:	Fourier Systems Inc
Address	16 Hamelacha Street, Rosh Ha'ayin 48091, Israel

### 1.2 Equipment under Test (EUT) Description

Brand Name:	einstein
Trade Name:	einstein
Model Name:	ENTAB2, einstein II+, E892
Frequency Range:	802.11b/g/n-20MHz: 2.412GHz - 2.462GHz
Channel Number:	802.11b/g/n-20MHz: 11
Modulation Type:	DSSS, OFDM
Antenna Type:	FPC Antenna
Antenna Gain:	2.57 dBi

#### NOTE:

1. The EUT is a Tablet PC, it's operating at 2.4GHz ISM; it supports 802.11b, 802.11g, 802.11n and they are all tested in this report.  
For 802.11b/g/n-20MHz (2.4GHz band), the frequencies allocated is  $F \text{ (MHz)} = 2412 + 5 \times (n-1)$  ( $1 \leq n \leq 11$ ). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz).
2. The EUT connected to the serial port of the computer with a serial communication cable, we use the dedicated software to control the EUT continuous transmission.
3. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

#### 1.2.1 Identification of all used EUTs

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
A01	V10	5.1.1



### 1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-15 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Result
1	15.203	Antenna Requirement	N.A	<b><u>PASS</u></b>
2	15.247(b)	Peak Output Power	Oct 31, 2016	<b><u>PASS</u></b>
3	15.247(a)	Bandwidth	Oct 31, 2016	<b><u>PASS</u></b>
4	15.247(d)	Conducted Spurious Emission and Band Edge	Oct 31, 2016	<b><u>PASS</u></b>
5	15.247(d)	Restricted Frequency Bands	Nov 11&16, 2016	<b><u>PASS</u></b>
6	15.207	Conducted Emission	Nov 11, 2016	<b><u>PASS</u></b>
7	15.209 ,15.247(d)	Radiated Emission	Nov 11&16, 2016	<b><u>PASS</u></b>
8	15.247(e)	Power spectral density (PSD)	Oct 31, 2016	<b><u>PASS</u></b>

The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB558074 D01 v03r05 (04/08/2016).

#### 1.3.1 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



## 2. 47 CFR PART 15C REQUIREMENTS

### 2.1 Antenna requirement

#### 2.1.1 Applicable Standard

According to FCC 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

#### 2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

### 2.2 Peak Output Power

#### 2.2.1 Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

#### 2.2.2 Test Description

The measured output power was calculated by the reading of the USB Wideband Power Sensor and calibration.

#### A. Test Setup:



The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in power meter.

#### B. Equipments List:

Please reference ANNEX A(1.5).





### 2.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the EUT.

#### 2.2.3.1 802.11b Test Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	16.12	0.0409	30	1	PASS
6	2437	16.35	0.0432			PASS
11	2462	16.45	0.0442			PASS

Channel	Frequency (MHz)	Measured Output Average Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	13.74	0.0237	30	1	PASS
6	2437	13.97	0.0249			PASS
11	2462	14.02	0.0252			PASS

#### 2.2.3.2 802.11g Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	21.68	0.1472	30	1	PASS
6	2437	21.97	0.1574			PASS
11	2462	21.89	0.1545			PASS

Channel	Frequency (MHz)	Measured Output Average Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	13.05	0.0202	30	1	PASS
6	2437	13.16	0.0207			PASS
11	2462	13.13	0.0206			PASS





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**2.2.3.3 802.11n-20MHz Test mode**

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	20.83	0.1211	30	1	PASS
6	2437	20.73	0.1183			PASS
11	2462	20.67	0.1167			PASS

Channel	Frequency (MHz)	Measured Output Average Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	12.15	0.0164	30	1	PASS
6	2437	11.92	0.0156			PASS
11	2462	11.88	0.0154			PASS

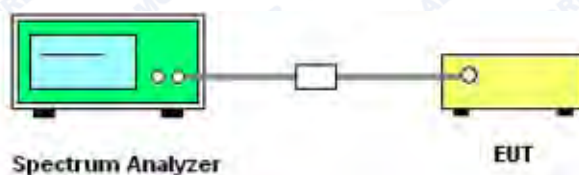
## 2.3 Bandwidth

### 2.3.1 Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 2.3.2 Test Description

#### A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

KDB 558074 Section 8.1 Option 1 was used in order to prove compliance.

#### B. Equipments List:

Please reference ANNEX A(1.5).

### 2.3.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the EUT.





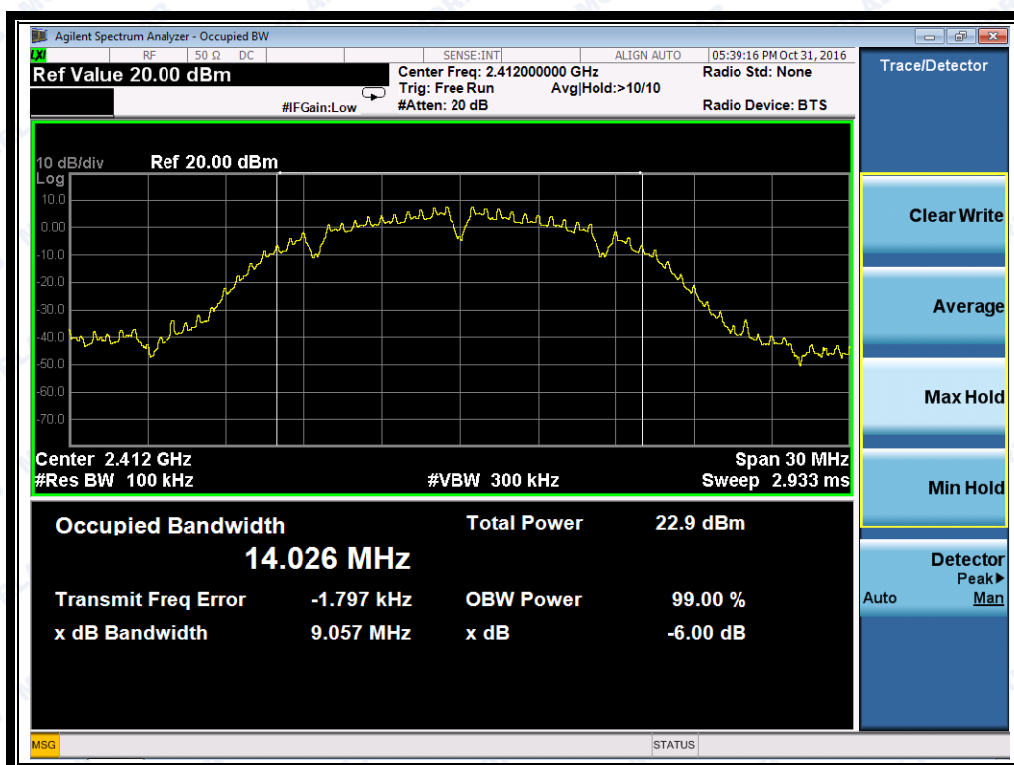
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### 2.3.3.1 802.11b Test mode

#### A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	9.057	≥500	PASS
6	2437	8.581	≥500	PASS
11	2462	9.055	≥500	PASS

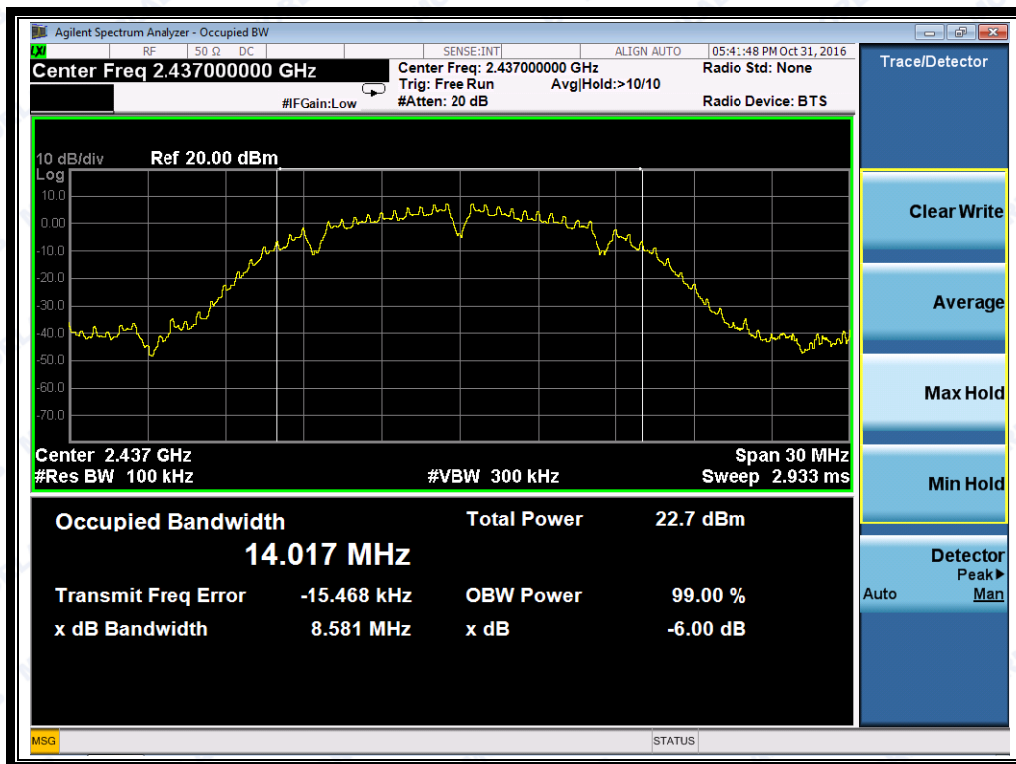
#### B. Test Plots



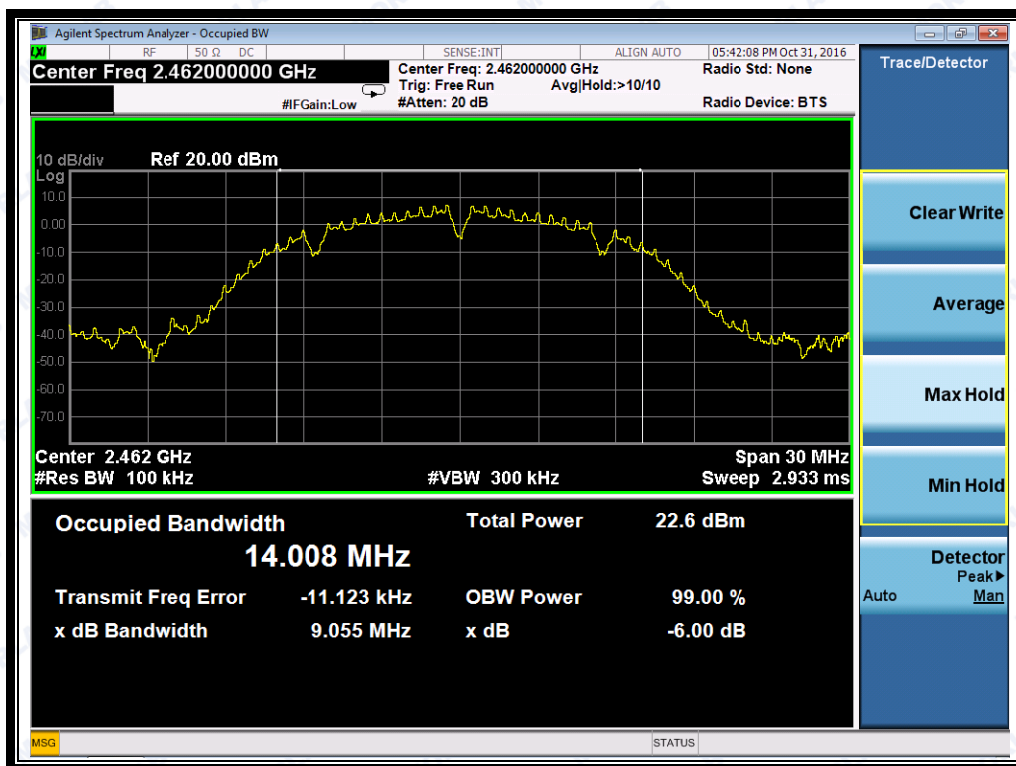
(Channel 1: 2412MHz @ 802.11b)



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(Channel 6: 2437 MHz @ 802.11b)



(Channel 11: 2462MHz @ 802.11b)





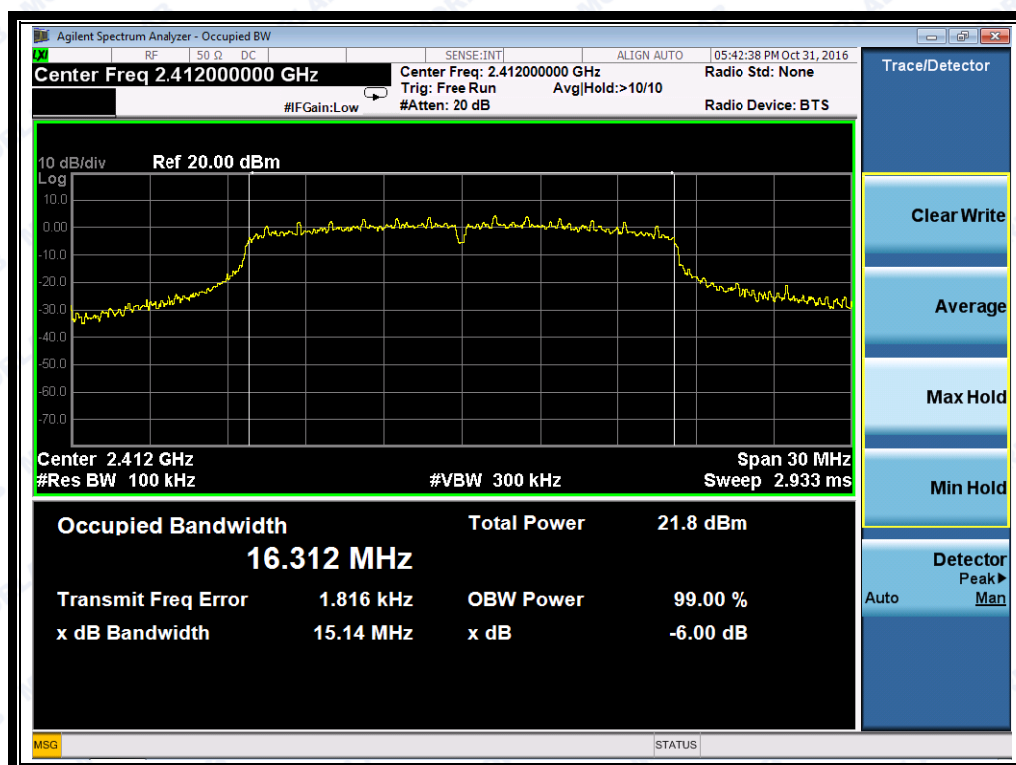
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### 2.3.3.2 802.11g Test mode

#### A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.14	≥500	PASS
6	2437	15.13	≥500	PASS
11	2462	15.13	≥500	PASS

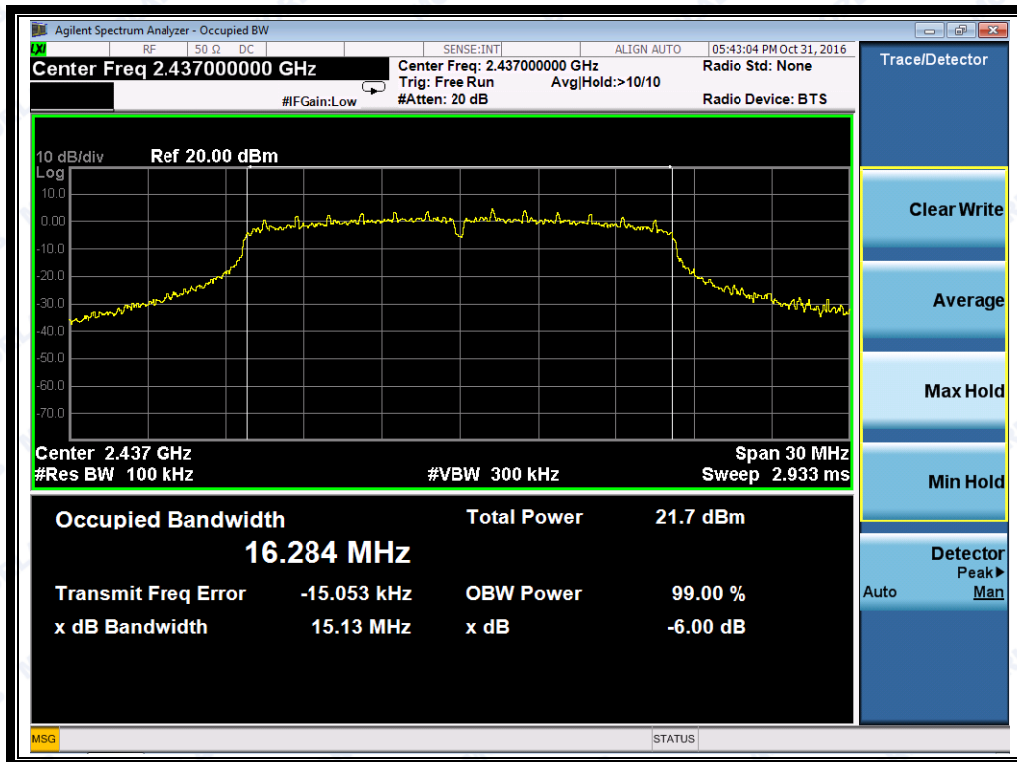
#### B. Test Plots:



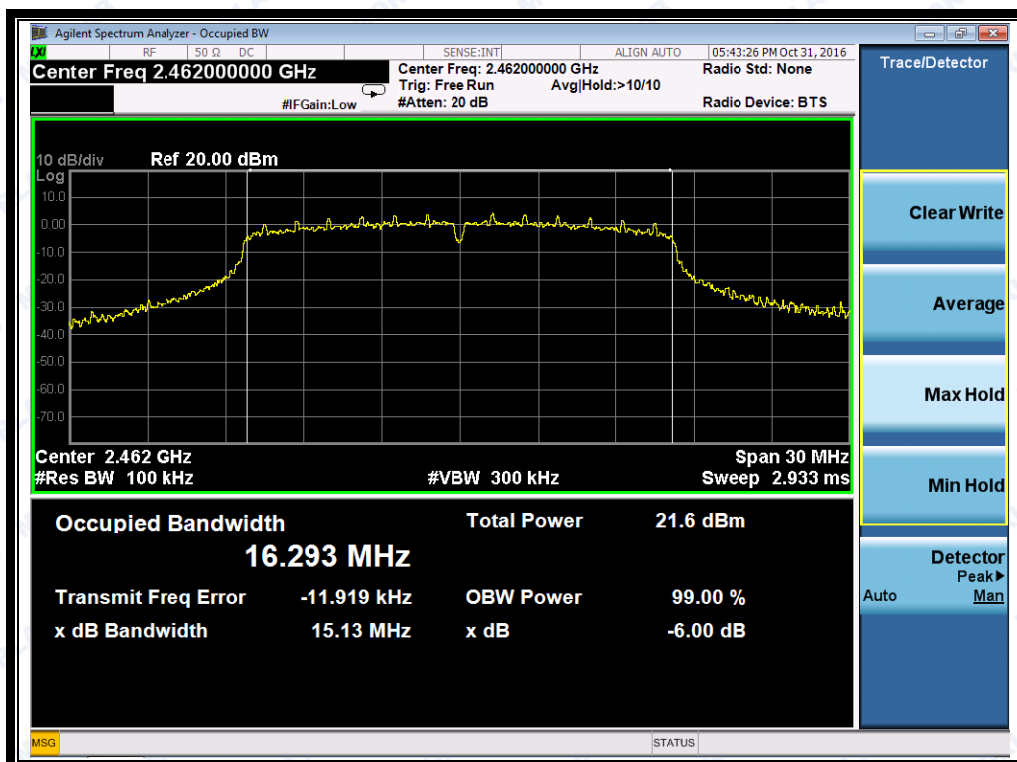
(Channel 1: 2412MHz @ 802.11g)



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(Channel 6: 2437MHz @ 802.11g)



(Channel 11: 2462MHz @ 802.11g)



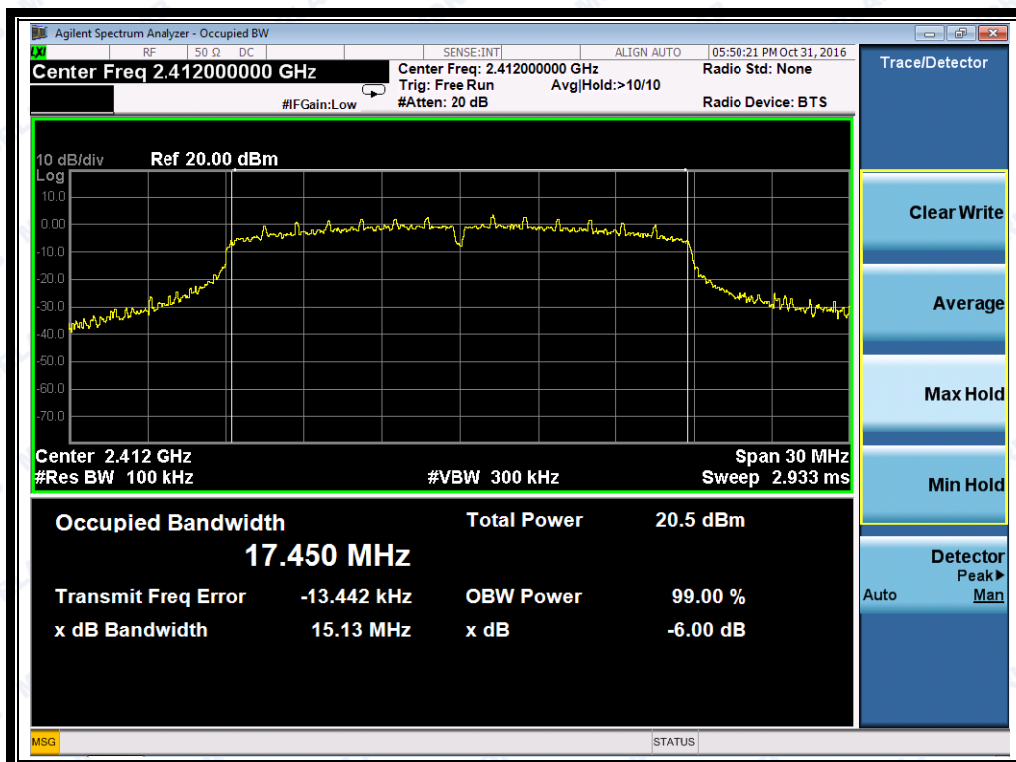


## 2.3.3.3 802.11n-20 Test mode

## A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.13	≥500	PASS
6	2437	15.16	≥500	PASS
11	2462	15.14	≥500	PASS

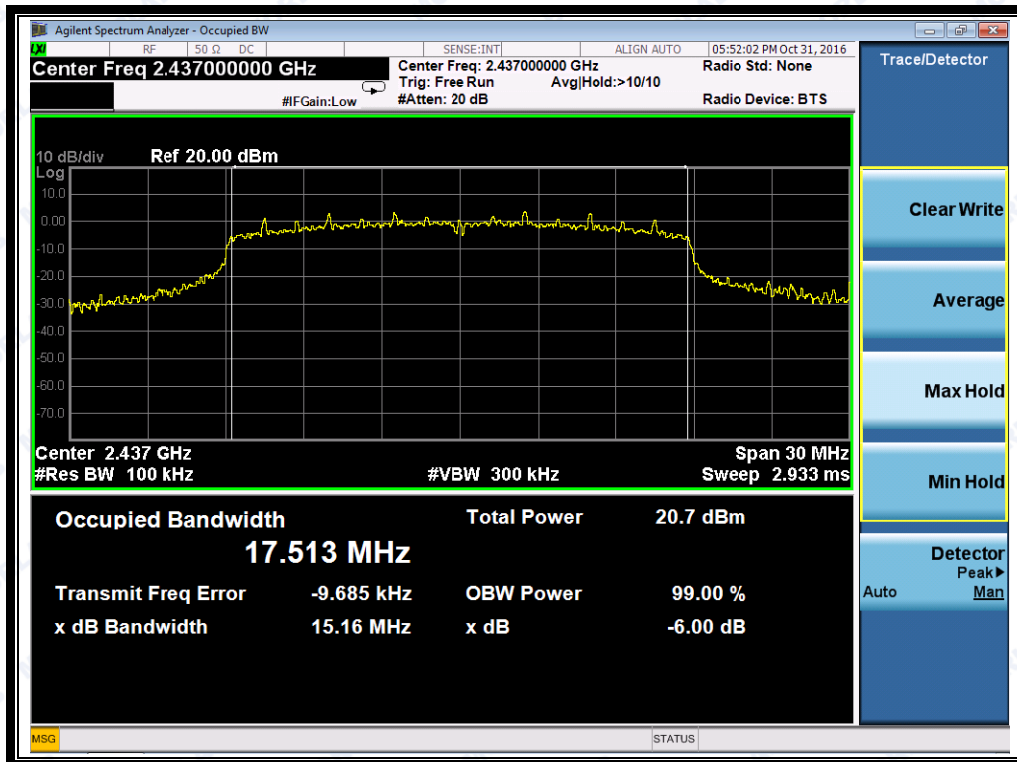
## B. Test Plots:



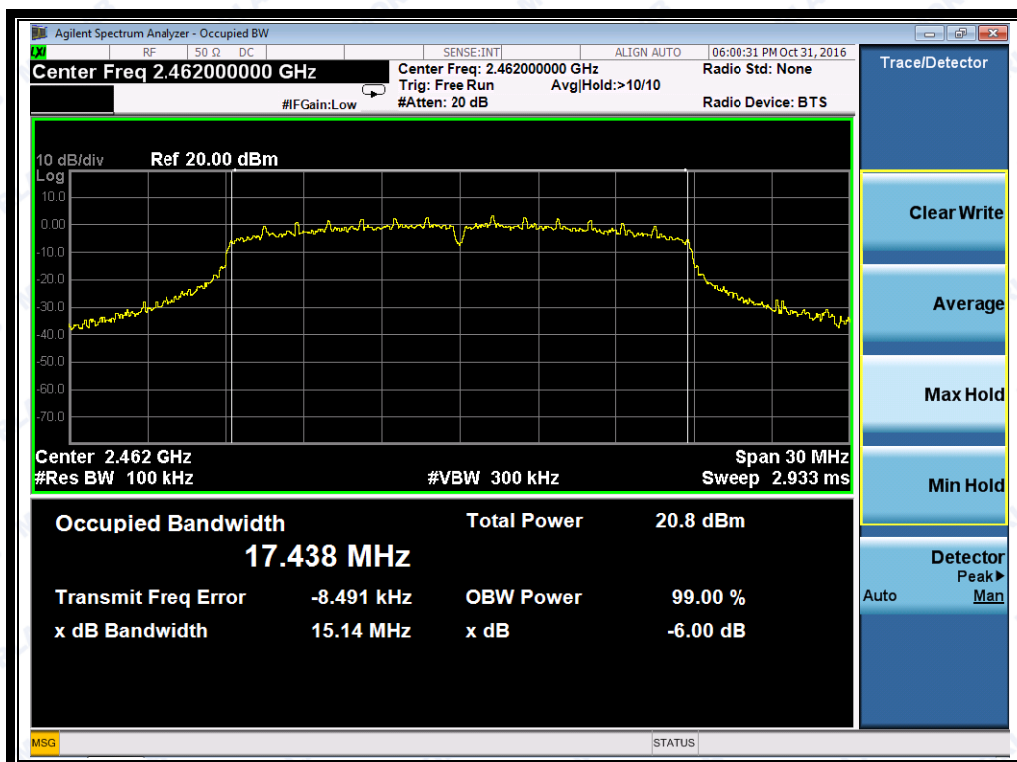
(Channel 1: 2412MHz @ 802.11n-20)



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(Channel 6: 2437MHz @ 802.11n-20)



(Channel 11: 2462MHz @ 802.11n-20)



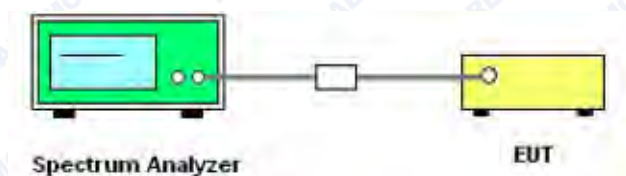
## 2.4 Conducted Spurious Emissions and Band Edge

### 2.4.1 Requirement

According to FCC section 15.247(c), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 2.4.2 Test Description

#### A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

KDB 558074 Section 11.0 was used in order to prove compliance.

#### B. Equipments List:

Please reference ANNEX A(1.5).

### 2.4.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.



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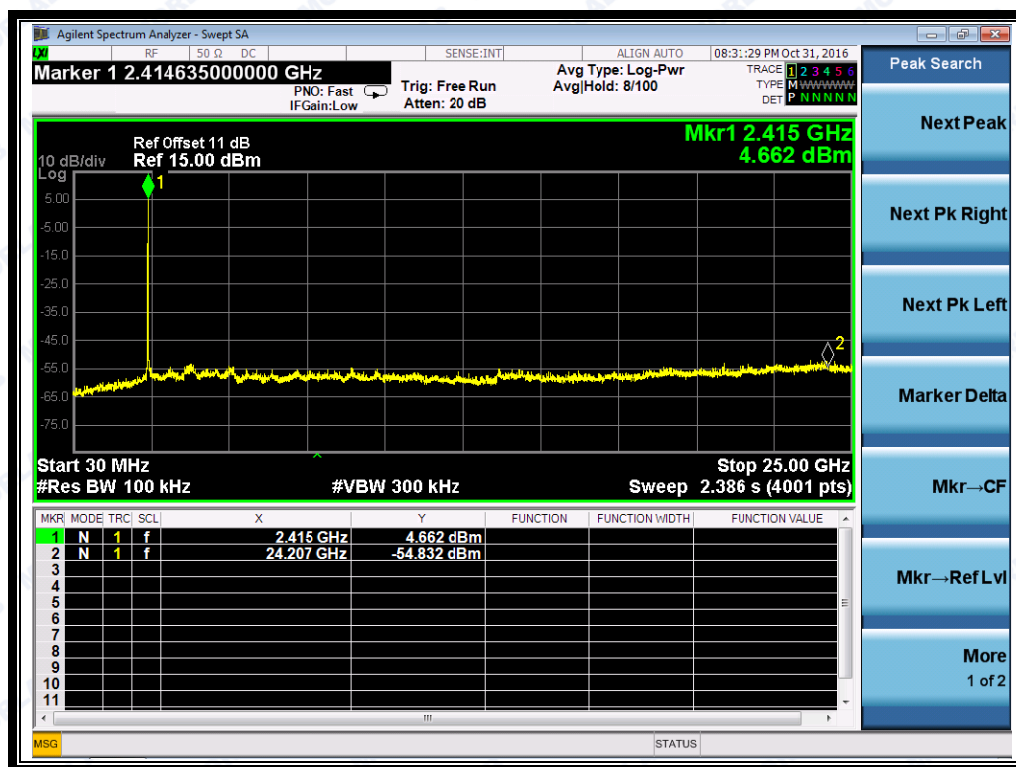
### 2.4.3.1 802.11b Test mode

#### A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-54.83	4.66	-15.34	PASS
6	2437	-50.99	4.25	-15.75	PASS
11	2462	-52.86	4.06	-15.94	PASS

#### B. Test Plots:

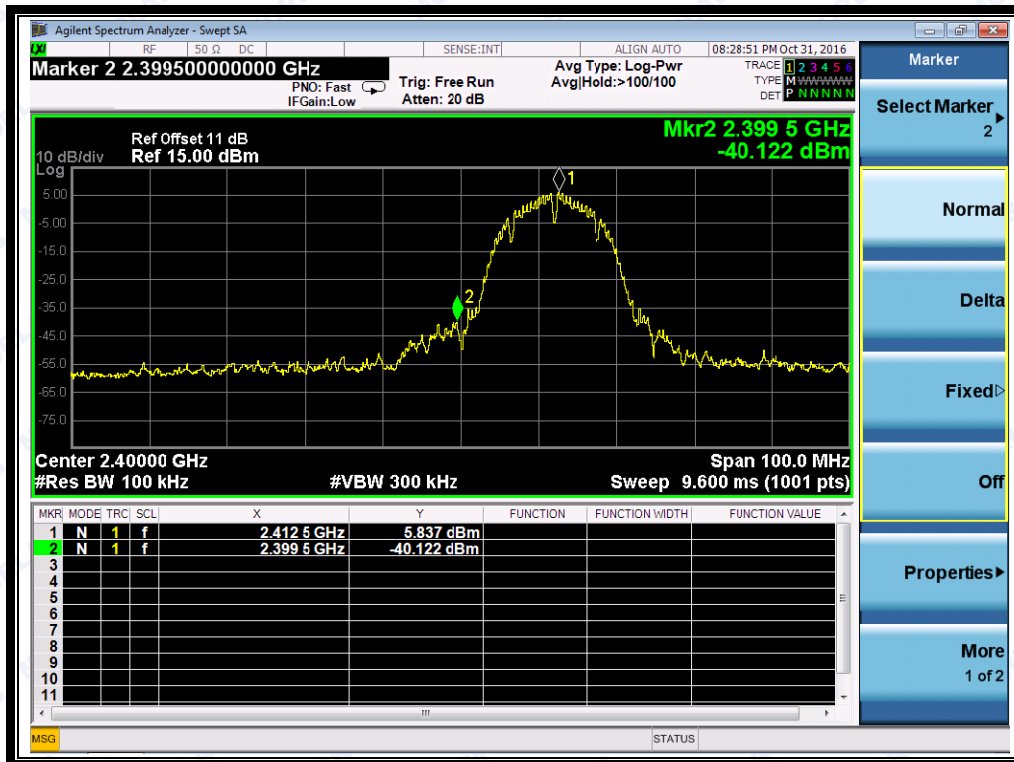
**Note:** the power of the Module transmitting frequency should be ignored.



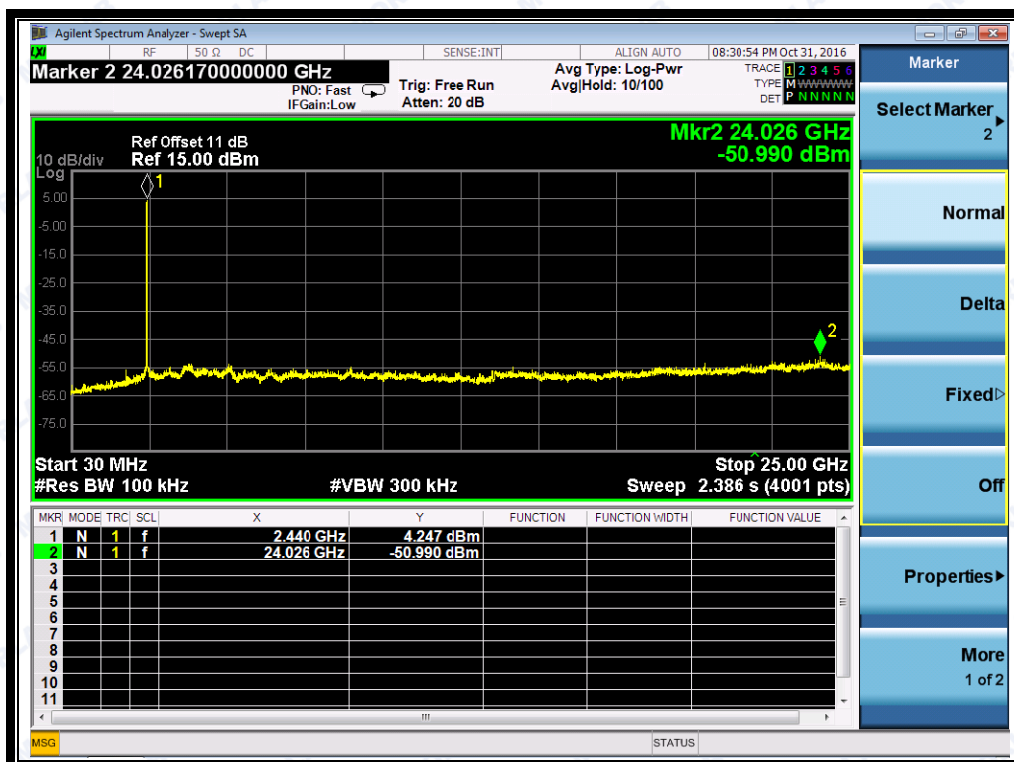
(Channel = 1, 30MHz to 25GHz)



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(Band Edge @ Channel = 1)

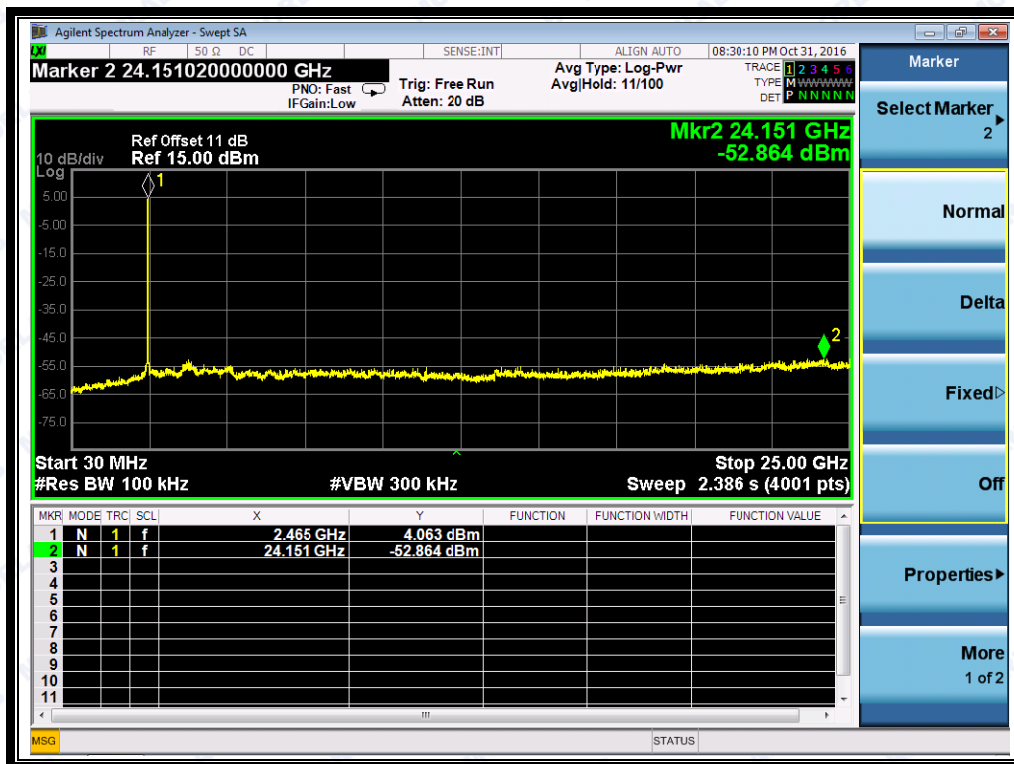


(Channel = 6, 30MHz to 25GHz)

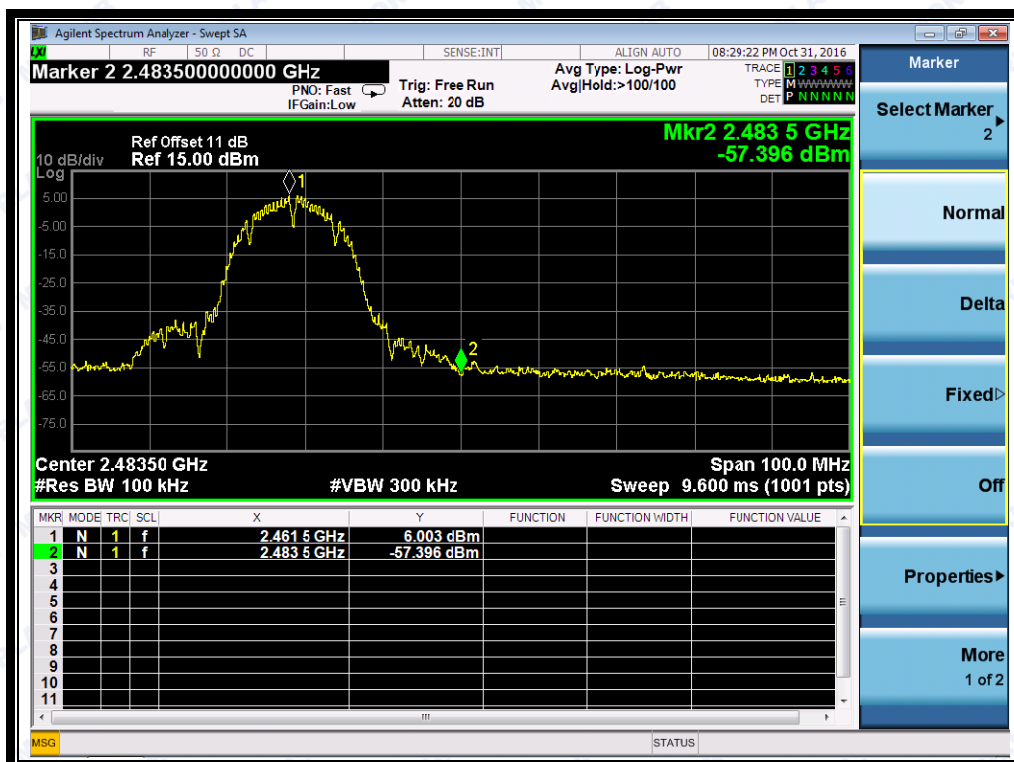




REPORT No.: SZ16100102W03



(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)



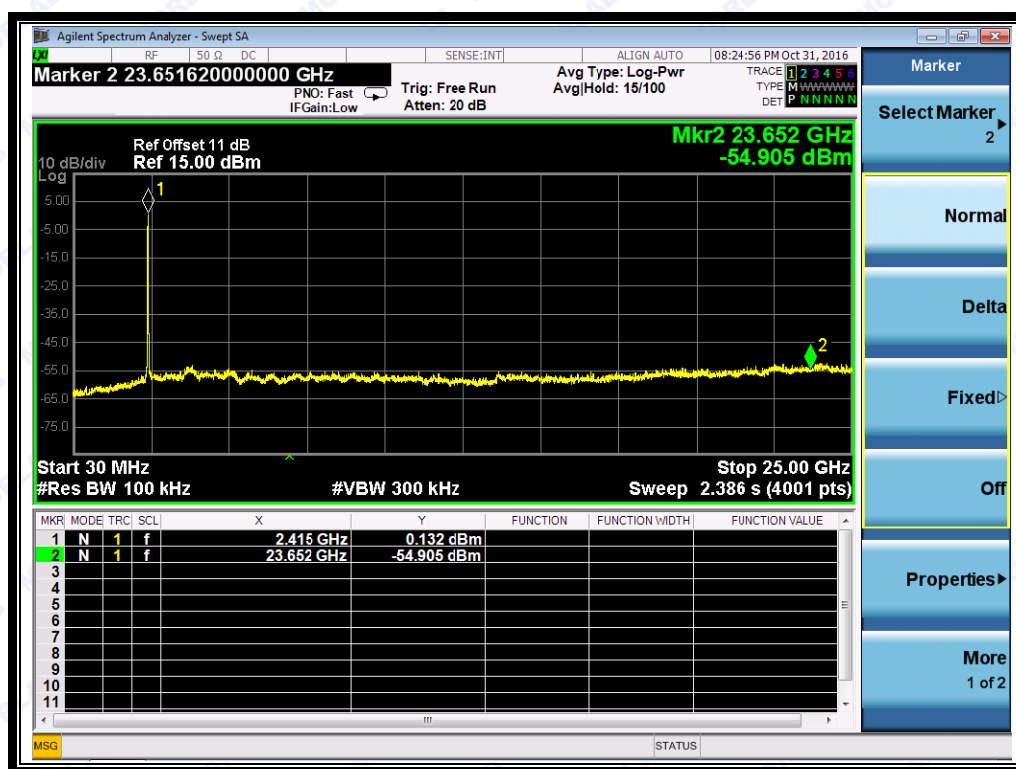
### 2.4.3.2 802.11g Test mode

#### A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-54.91	0.13	-19.87	PASS
6	2437	-50.88	-0.44	-20.44	PASS
11	2462	-53.59	-0.61	-20.61	PASS

#### B. Test Plots:

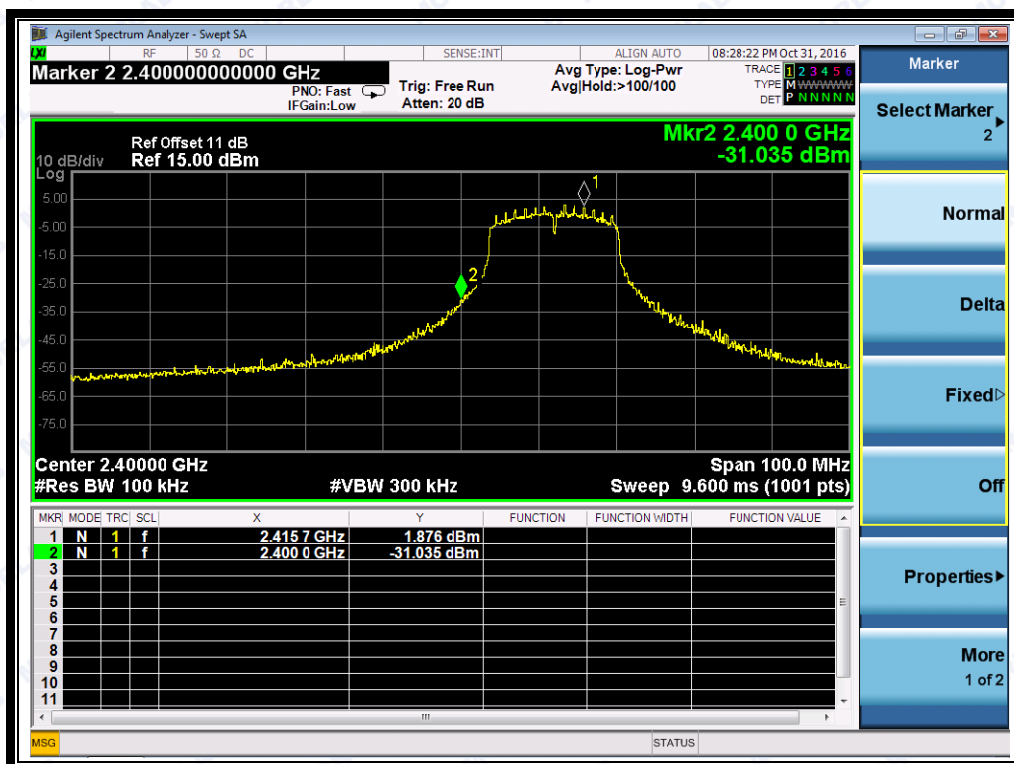
**Note:** the power of the Module transmitting frequency should be ignored.



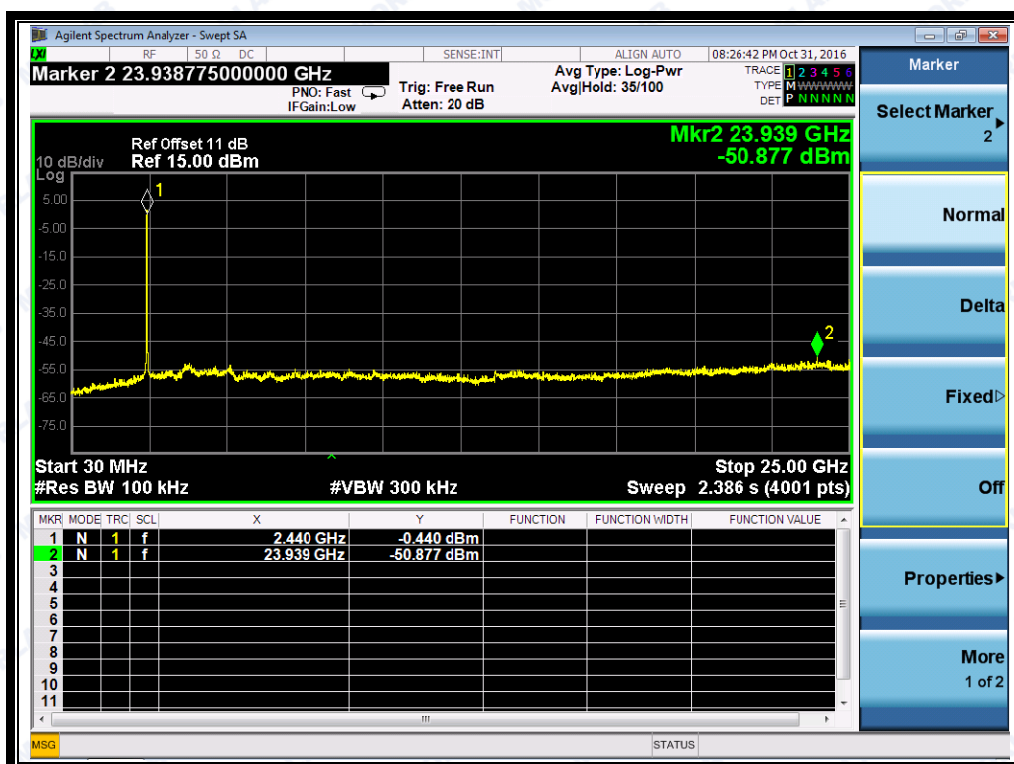
(Channel = 1, 30MHz to 25GHz)



REPORT No.: SZ16100102W03



(Band Edge @ Channel = 1)

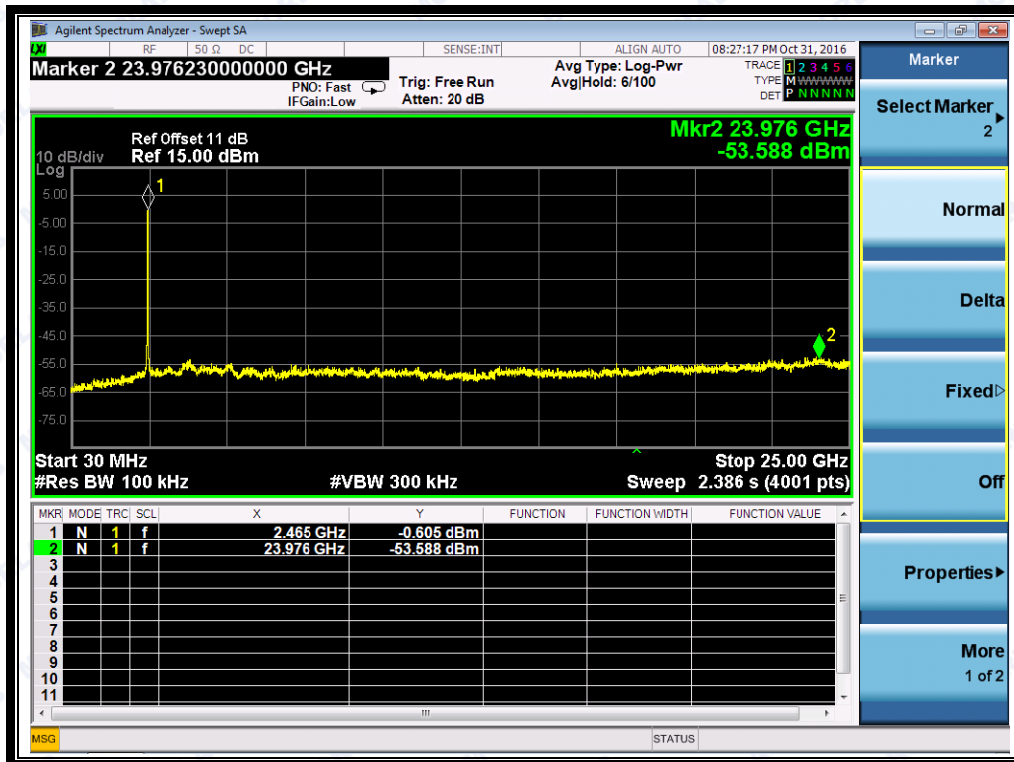


(Channel = 6, 30MHz to 25GHz)

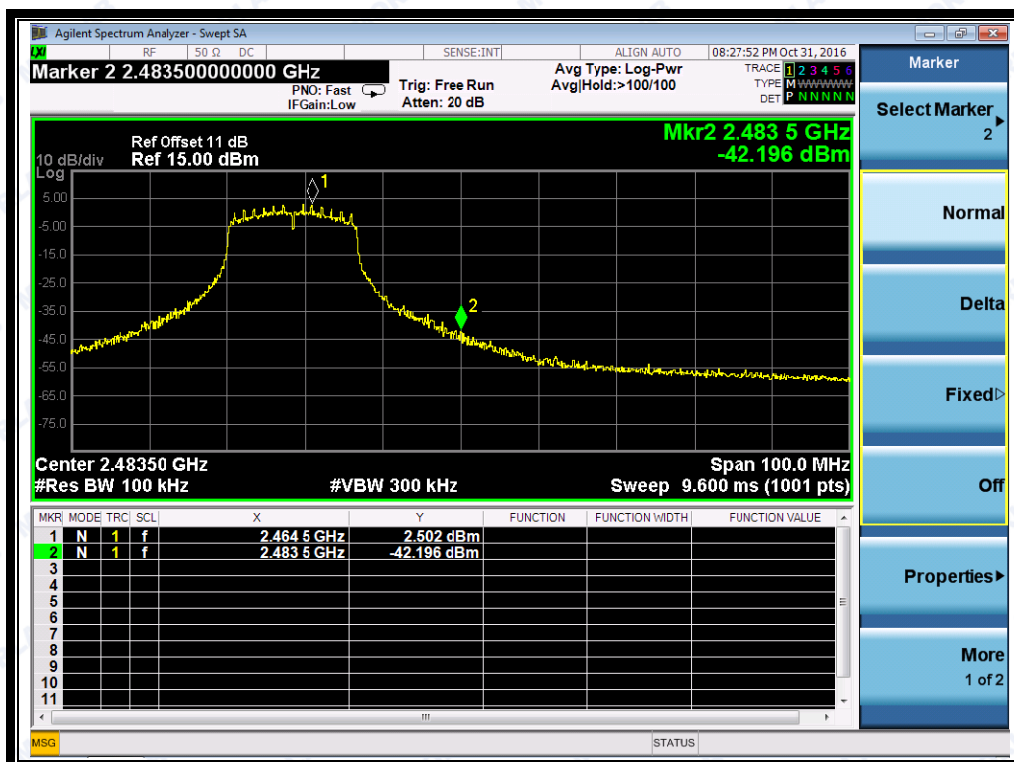




REPORT No.: SZ16100102W03



(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)



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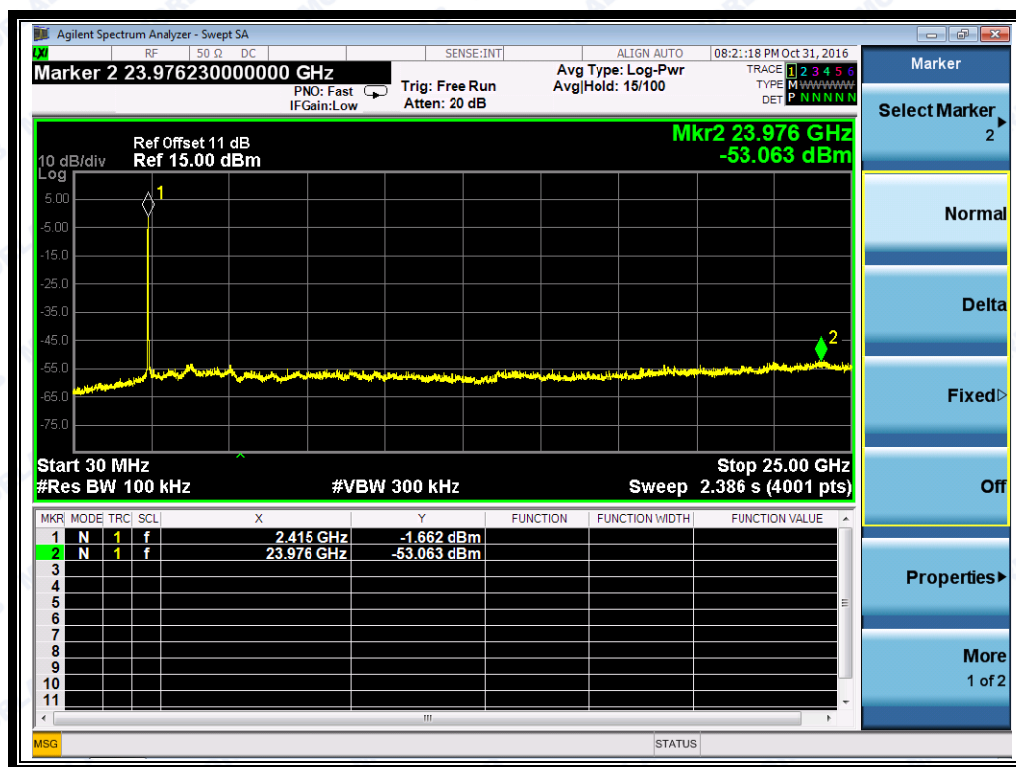
### 2.4.3.3 802.11n -20MHz Test mode

#### A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-53.06	-1.66	-21.66	PASS
6	2437	-52.88	-1.89	-21.89	PASS
11	2462	-52.88	-0.97	-20.97	PASS

#### B. Test Plots:

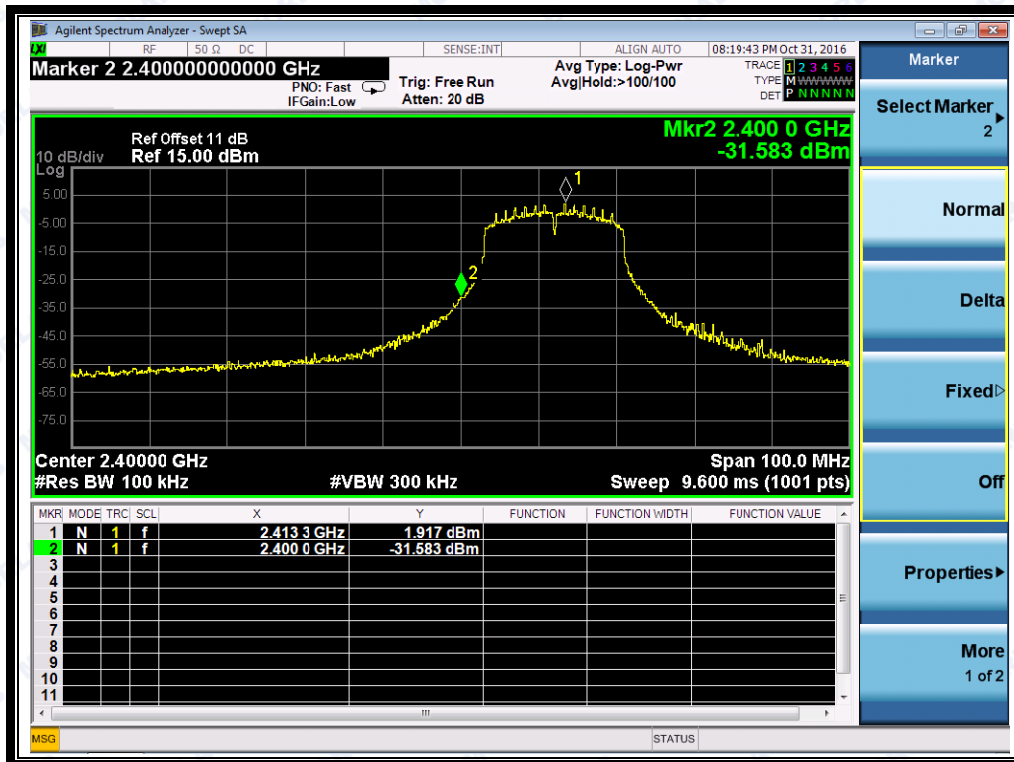
**Note:** the power of the Module transmitting frequency should be ignored.



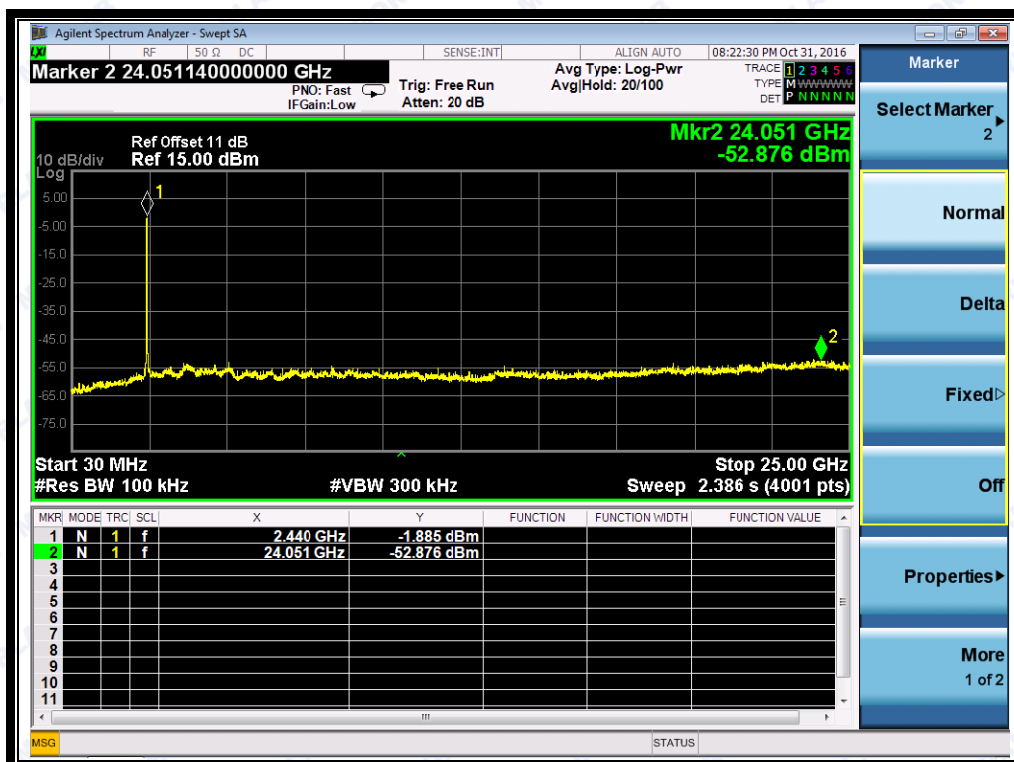
(Channel = 1, 30MHz to 25GHz)



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(Band Edge @ Channel = 1)

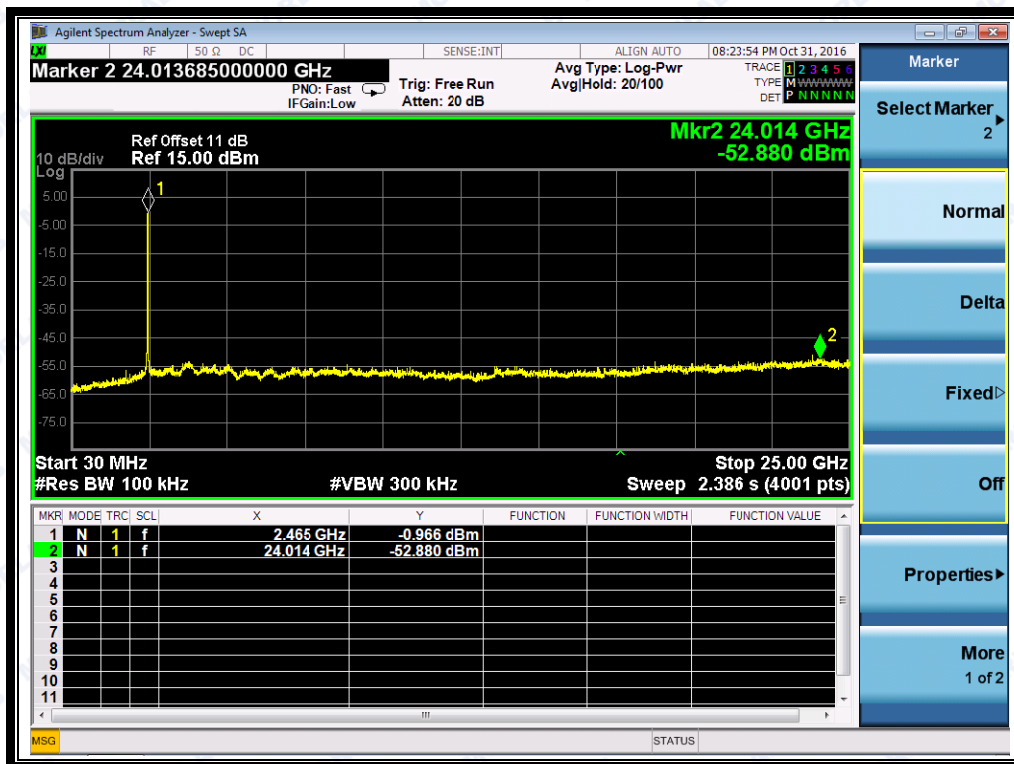


(Channel = 6, 30MHz to 25GHz)

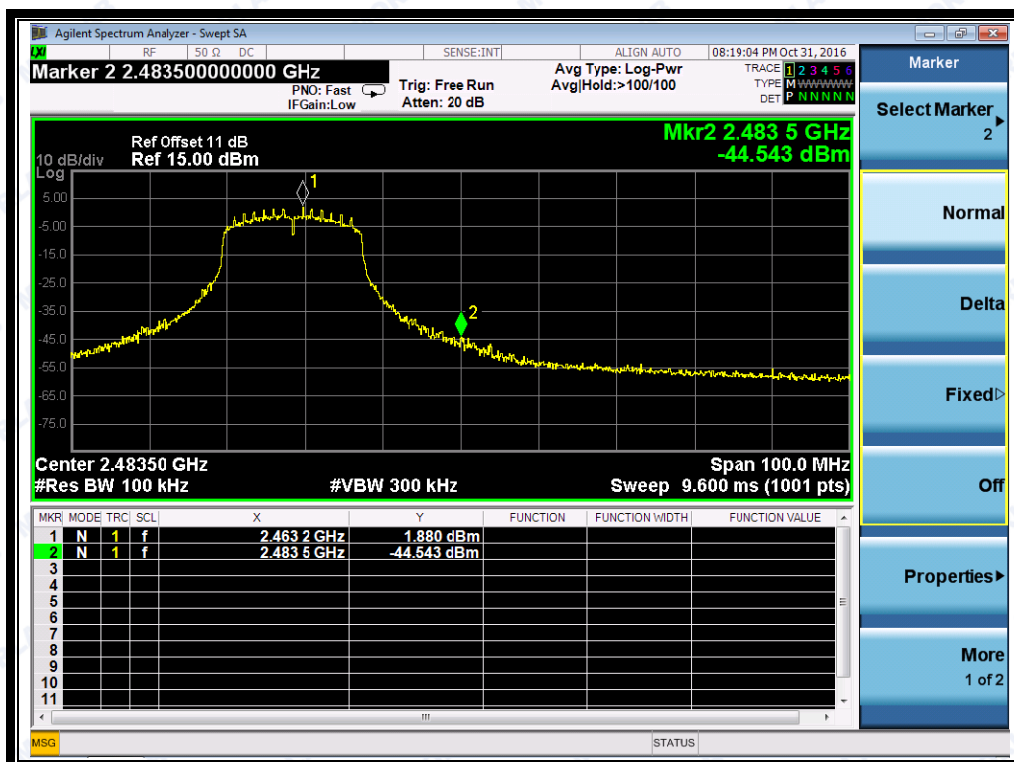




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(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)

## 2.5 Power spectral density (PSD)

### 2.5.1 Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

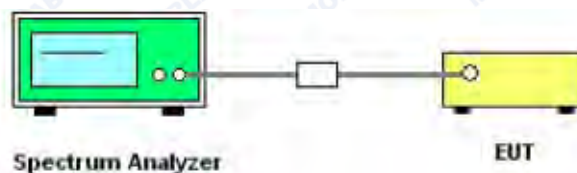
### 2.5.2 Test Description

#### A. Test procedure

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- Set analyzer center frequency to channel center frequency.
- Set the span to 30MHz
- Set the RBW to 3 kHz
- Set the VBW to 10KHz
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

#### B. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

KDB 558074 Section 10.2 was used in order to prove compliance.

#### C. Equipments List:

Please reference ANNEX A(1.5).



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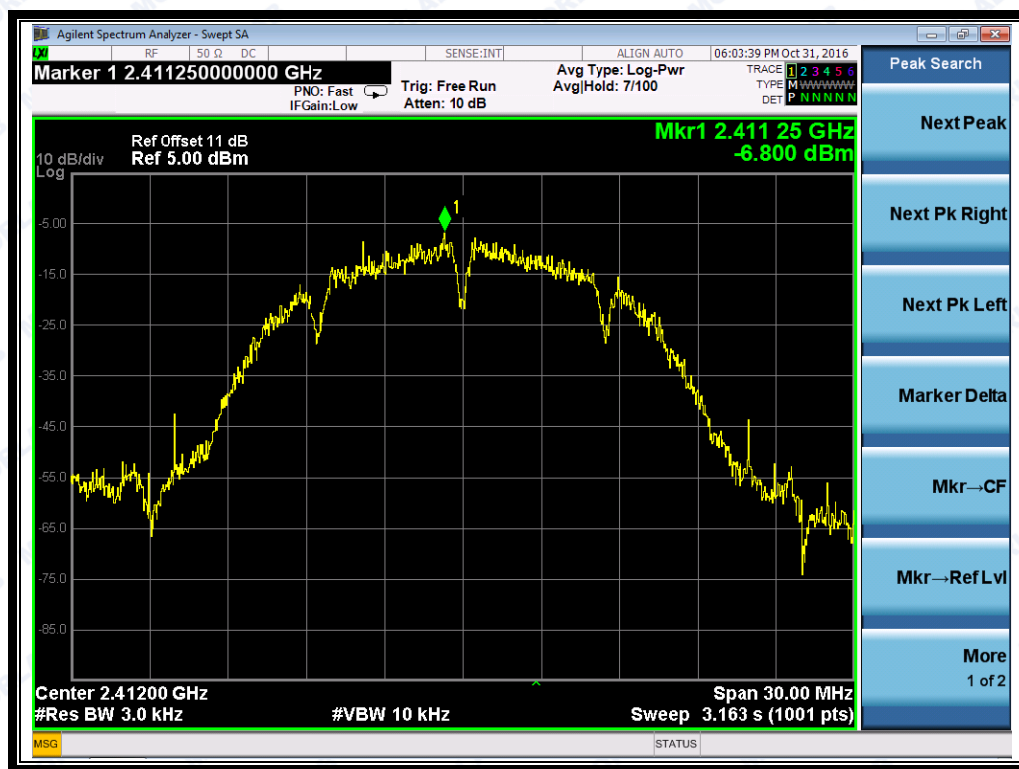
### 2.5.3 Test Result

#### 2.5.3.1 802.11b Test mode

##### A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-6.80	8	PASS
6	2437	-6.74	8	PASS
11	2462	-6.04	8	PASS
Measurement uncertainty: $\pm 1.3$ dB				

##### B. Test Plots:



(Channel = 1 @ 802.11b)





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(Channel = 6 @ 802.11b)

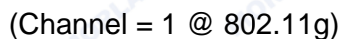


(Channel = 11 @ 802.11b)



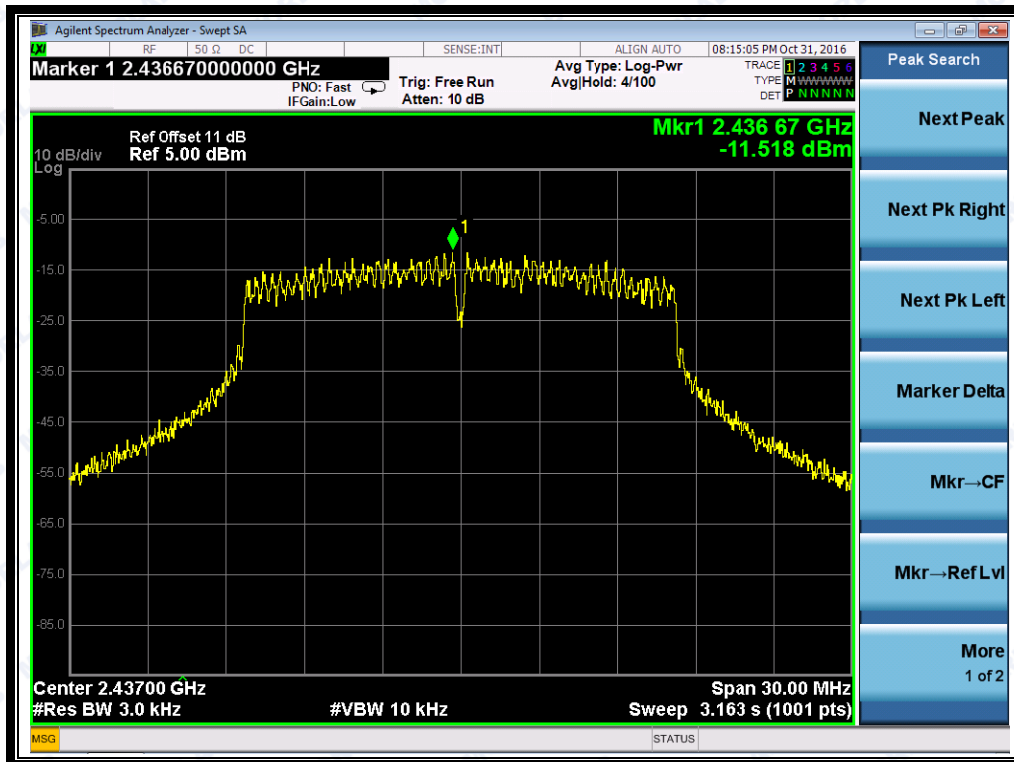
### A. Test Verdict:

### B. Test Plots:

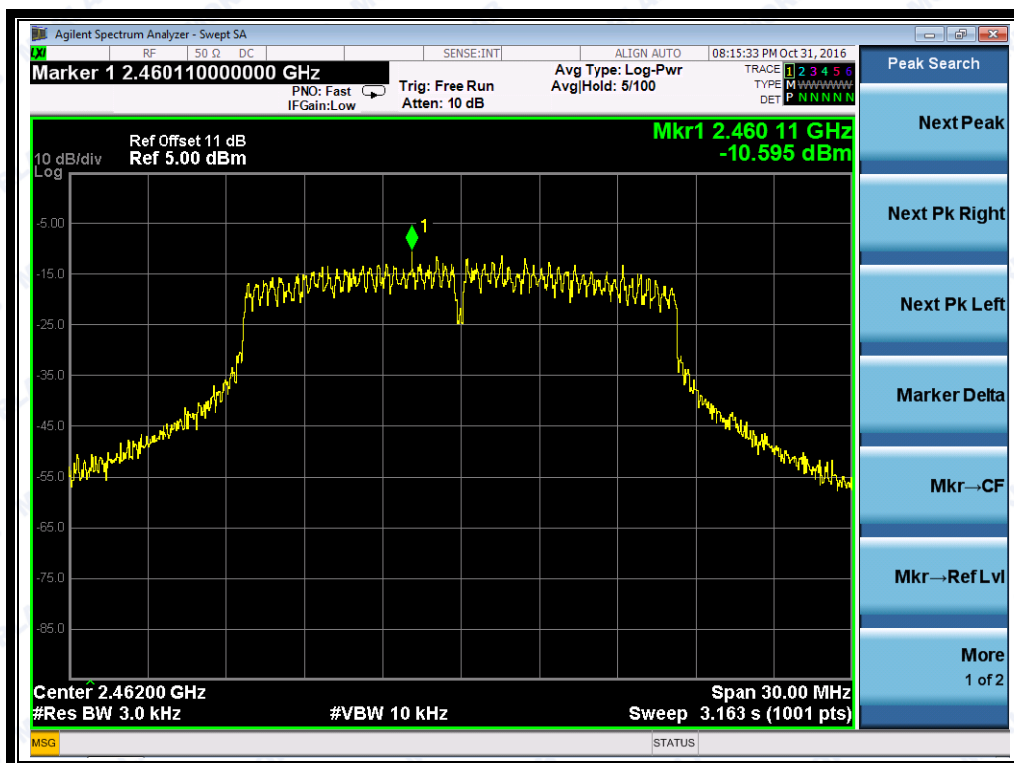




REPORT No.: SZ16100102W03



(Channel = 6 @ 802.11g)



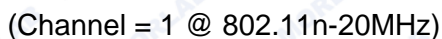
(Channel = 11 @ 802.11g)





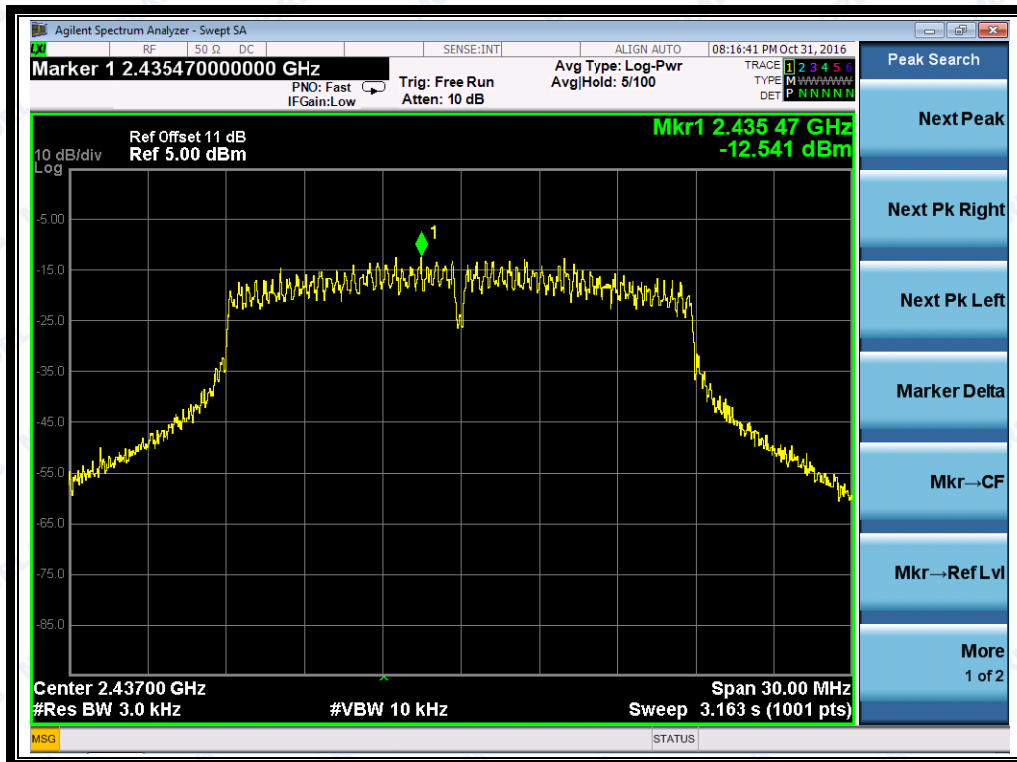
### A. Test Verdict:

### B. Test Plots:

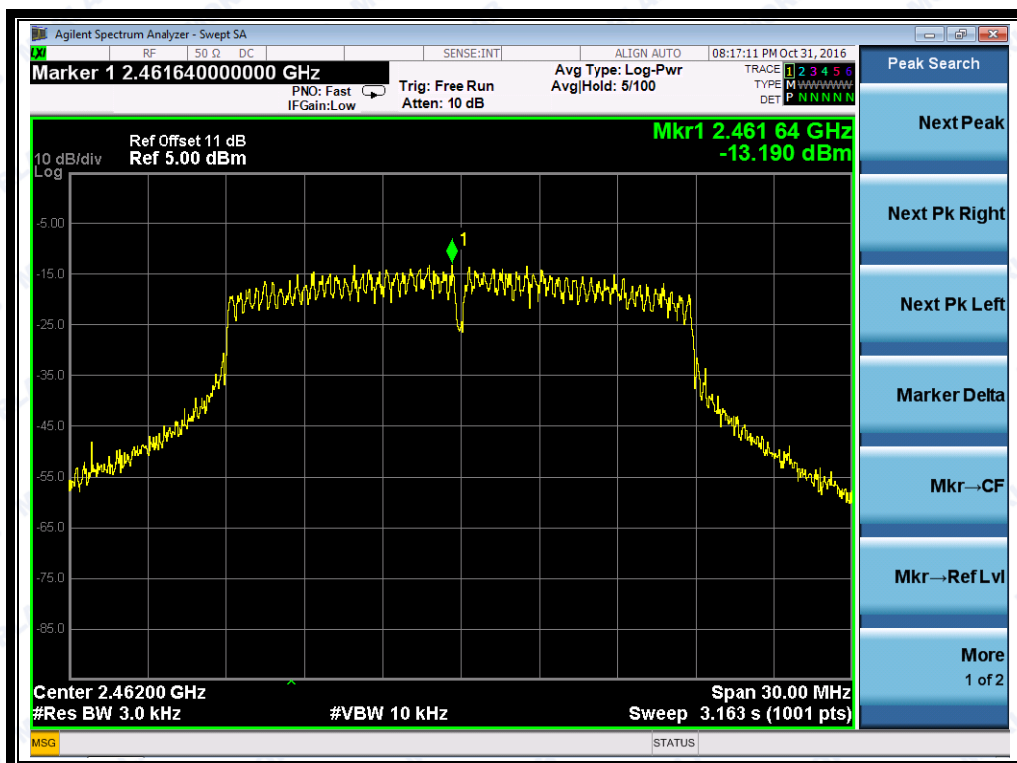




REPORT No.: SZ16100102W03



(Channel = 6 @ 802.11n-20MHz)



(Channel = 11 @ 802.11n-20MHz)

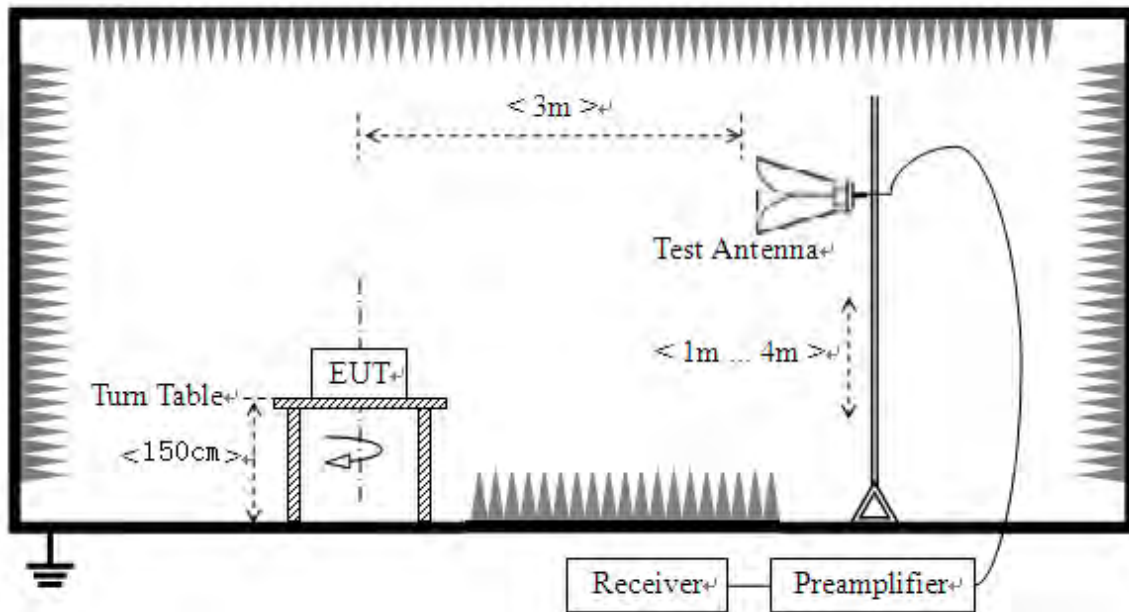
## 2.6 Restricted Frequency Bands

### 2.6.1 Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

### 2.6.2 Test Description

#### A. Test Setup



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

KDB 558074 Section 12.1 was used in order to prove compliance.

#### B. Equipments List:

Please reference ANNEX A(1.5).





### 2.6.3 Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

**Note:** Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

#### 2.6.3.1 802.11b Test mode

The lowest and highest channels are tested to verify the band edge emissions.

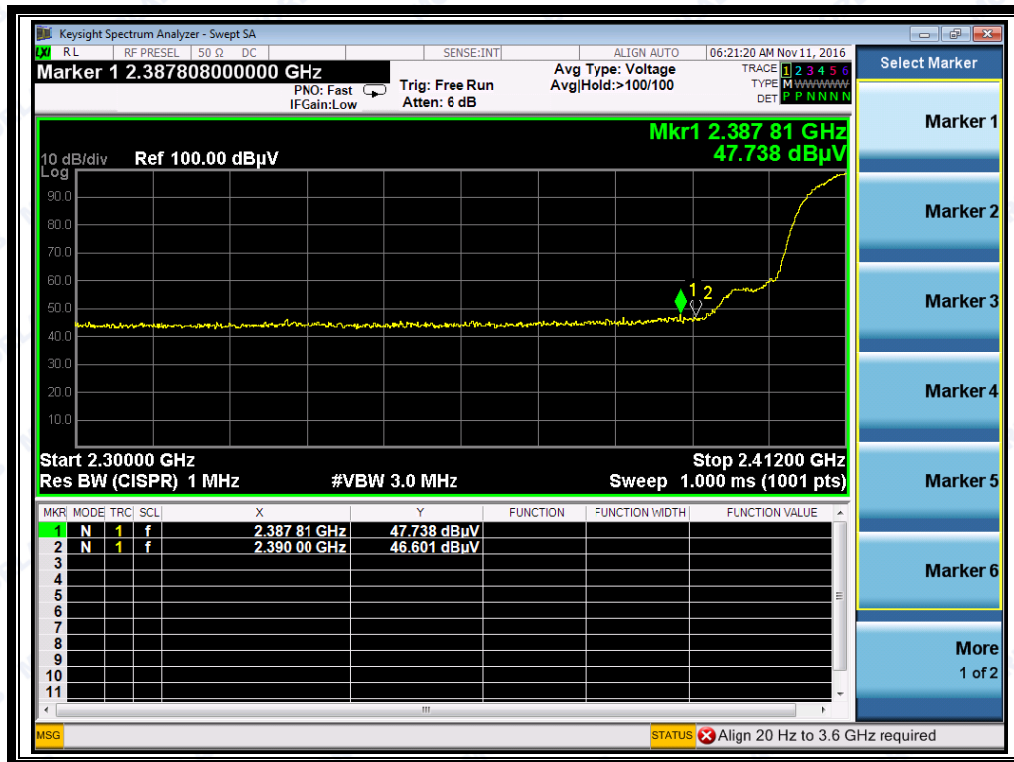
##### A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading $U_R$ (dB $\mu$ V)	$A_T$ (dB)	$A_{\text{Factor}}$ (dB@3m)	Max. Emission E (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Verdict
		PK/ AV						
1	2387.81	PK	47.74	-33.63	32.56	46.67	74	Pass
1	2389.38	AV	35.38	-33.63	32.56	34.31	54	Pass
11	2488.49	PK	48.20	-33.18	32.5	47.52	74	Pass
11	2488.90	AV	34.54	-33.18	32.5	33.86	54	Pass

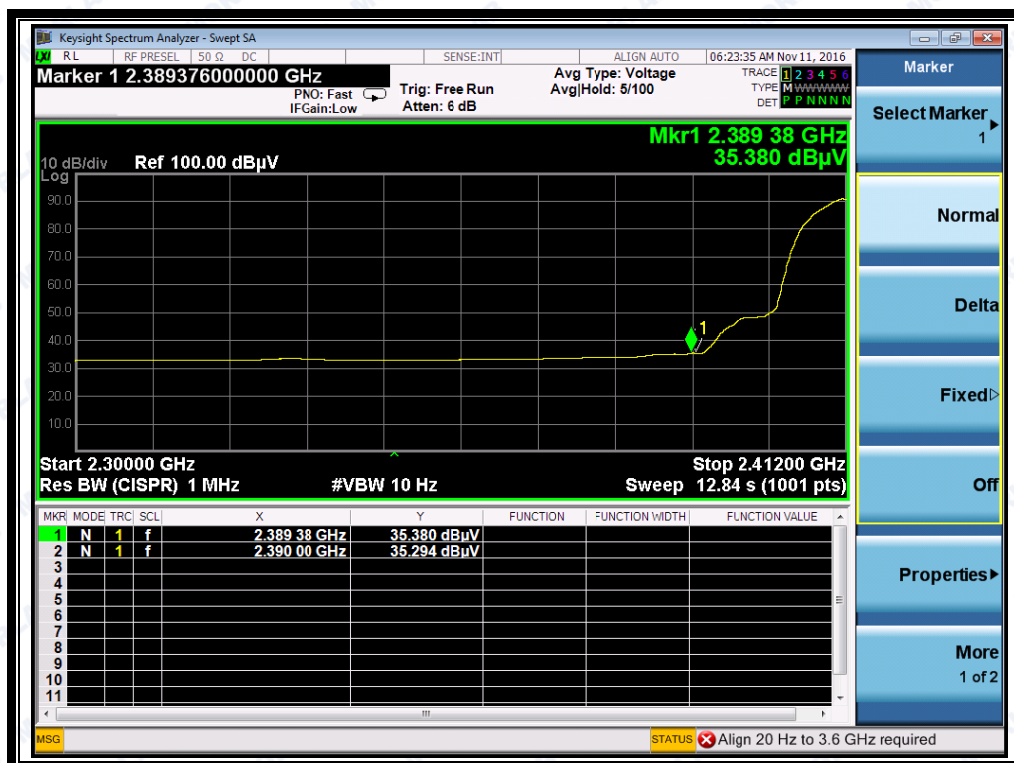
##### B. Test Plots:



REPORT No.: SZ16100102W03



(Plot A1: Channel = 1 PEAK @ 802.11b)



(Plot A2: Channel = 1 AVG @ 802.11b)



REPORT No.: SZ16100102W03



(Plot B1: Channel = 11 PEAK @ 802.11b)



(Plot B2: Channel = 11 AVG @ 802.11b)

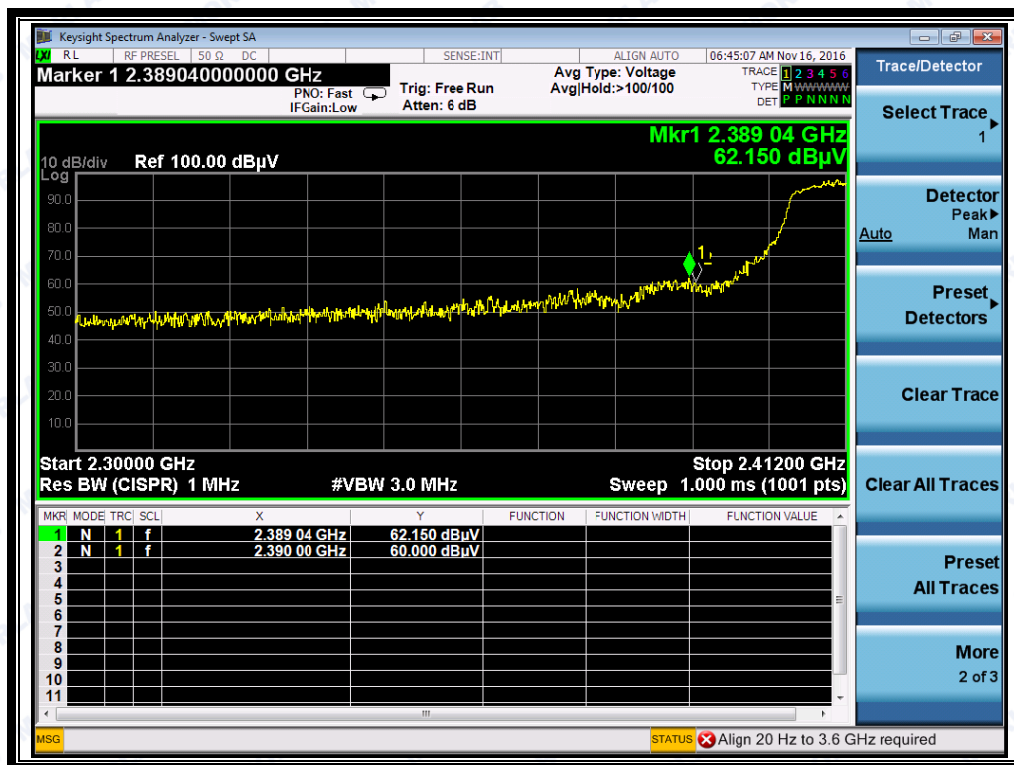


**2.6.3.2 802.11g Test mode**

The lowest and highest channels are tested to verify the band edge emissions.

**A. Test Verdict:**

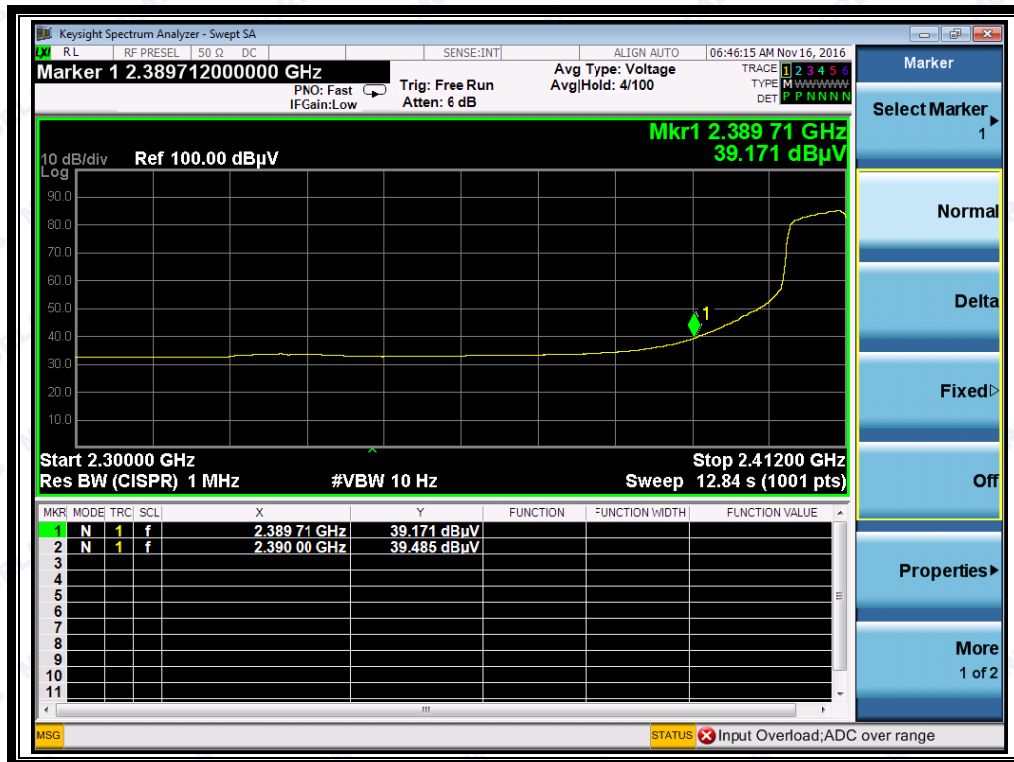
Channel	Frequency (MHz)	Detector	Receiver Reading $U_R$ (dBuV)	$A_T$ (dB)	$A_{Factor}$ (dB@3m)	Max. Emission $E$ (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.04	PK	62.15	-33.63	32.56	61.08	74	Pass
1	2389.71	AV	39.17	-33.63	32.56	38.10	54	Pass
11	2486.32	PK	60.05	-33.18	32.5	59.37	74	Pass
11	2483.81	AV	39.33	-33.18	32.5	38.65	54	Pass

**B. Test Plots:**

(Plot C1: Channel = 1 PEAK @ 802.11g)



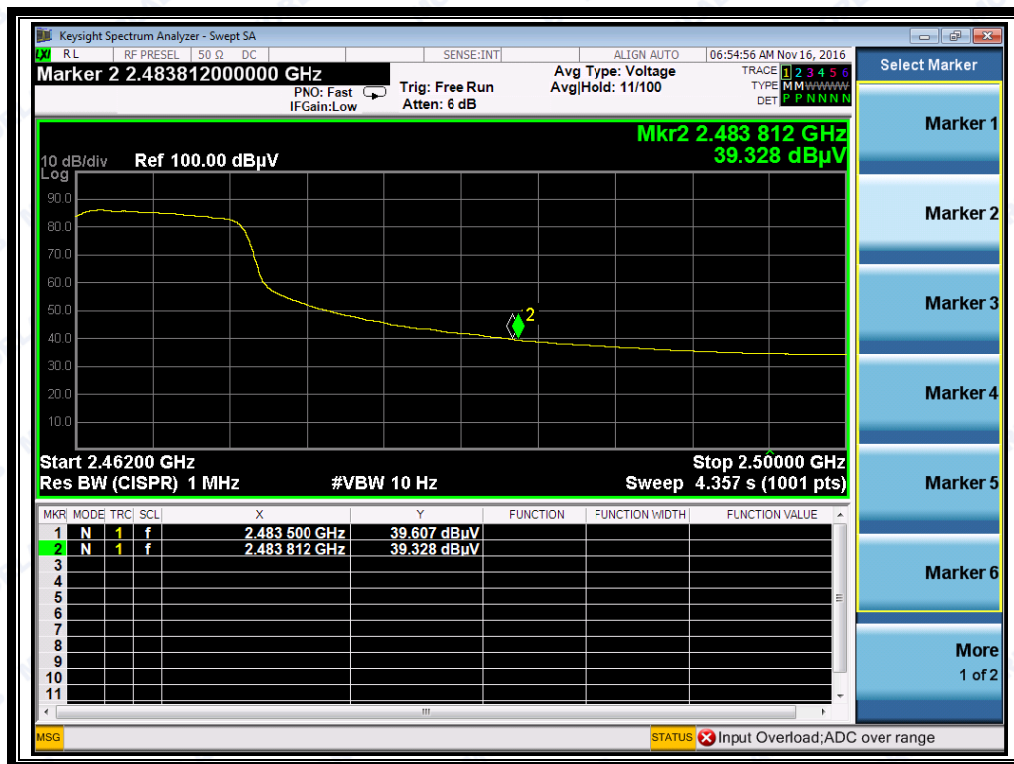
REPORT No.: SZ16100102W03



(Plot C2: Channel = 1 AVG @ 802.11g)



(Plot D1: Channel = 11 PEAK @ 802.11g)



(Plot D2: Channel = 11 AVG @ 802.11g)

### 2.6.3.3 802.11n-20MHz Test mode

The lowest and highest channels are tested to verify the band edge emissions.

#### A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading $U_R$ (dBμV)	$A_T$ (dB)	$A_{Factor}$ (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.15	PK	60.05	-33.63	32.56	58.98	74	Pass
1	2388.93	AV	39.16	-33.63	32.56	38.09	54	Pass
11	2484.94	PK	56.34	-33.18	32.5	55.66	74	Pass
11	2483.88	AV	39.23	-33.18	32.5	38.55	54	Pass

#### B. Test Plots:

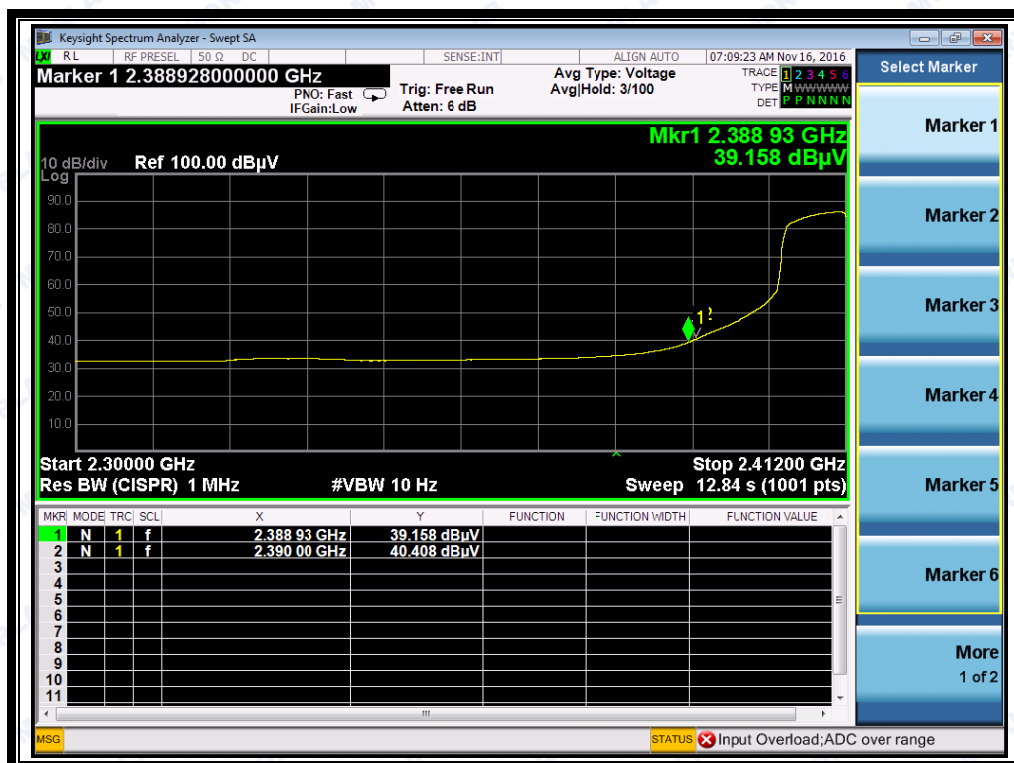




REPORT No.: SZ16100102W03



(Plot E1: Channel = 1 PEAK @ 802.11n-20)



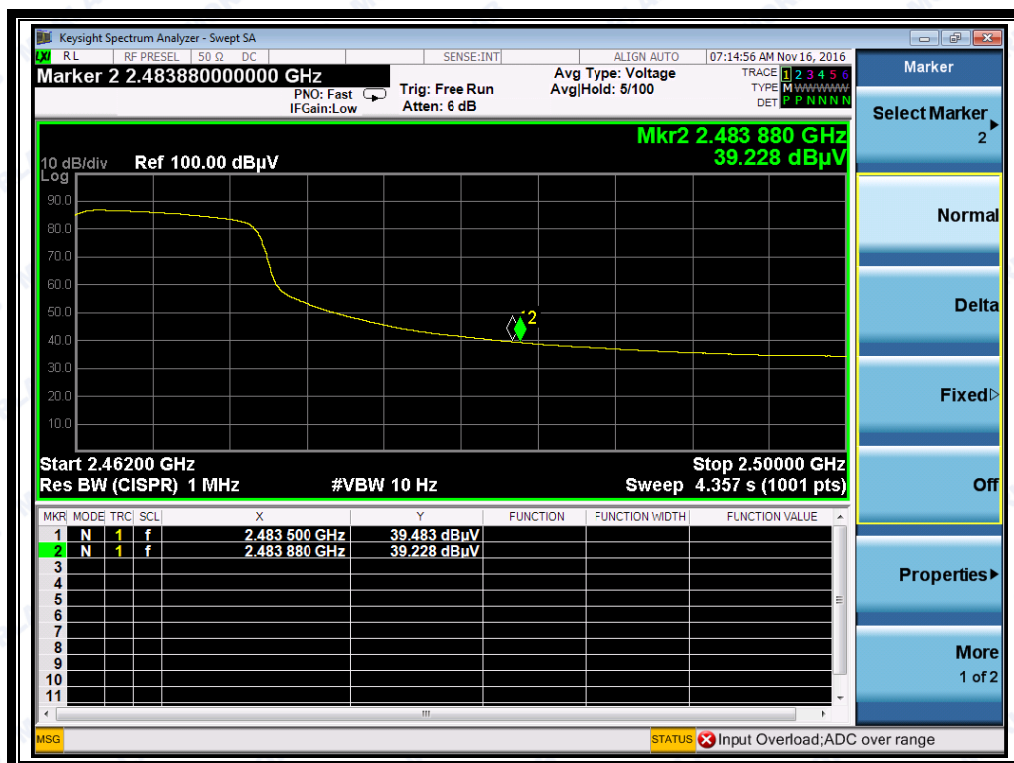
(Plot E2: Channel = 1 AVG @ 802.11n-20)



REPORT No.: SZ16100102W03



(Plot F1: Channel = 11 PEAK @ 802.11n-20)



(Plot F2: Channel = 11 AVG @ 802.11n-20)

## 2.7 Conducted Emission

### 2.7.1 Requirement

According to FCC section 15.207, for an intentional radiator 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 within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

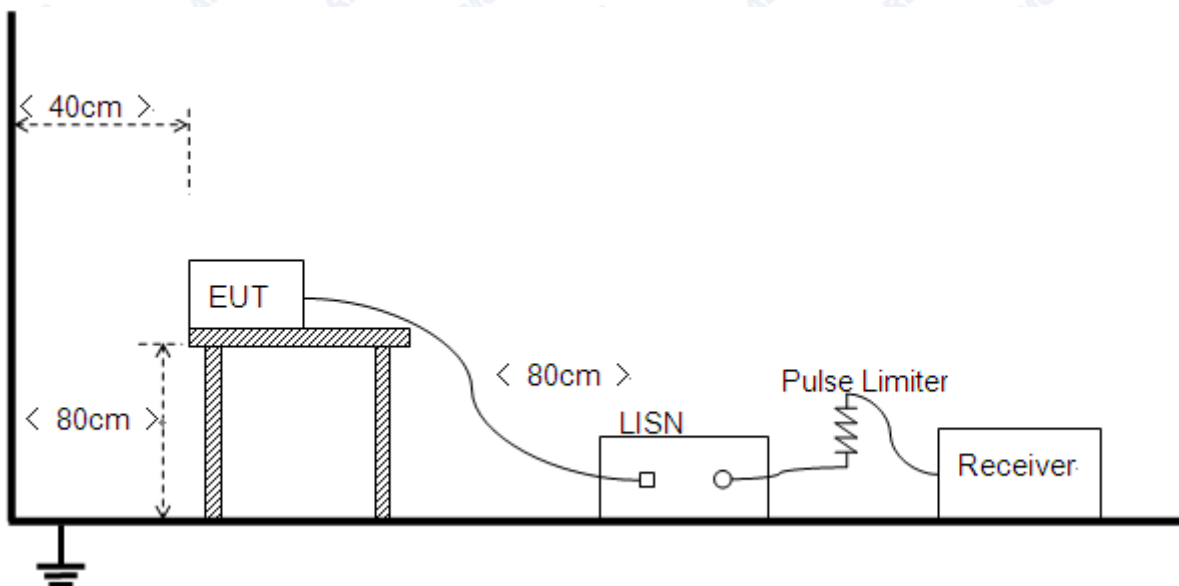
Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

#### NOTE:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 2.7.2 Test Description

#### A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.



**B. Equipments List:**

Please reference ANNEX A(1.5).

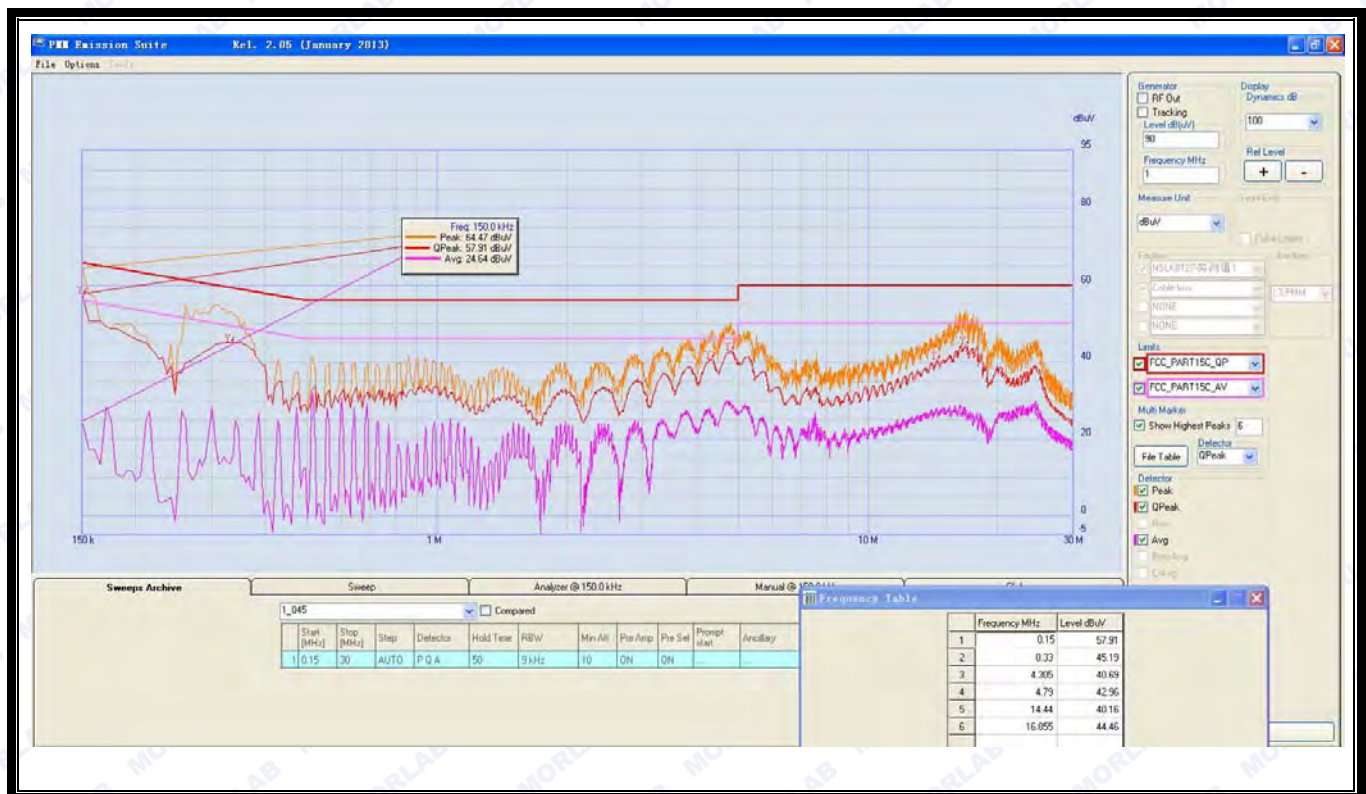
**2.1.1 Test Result**

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

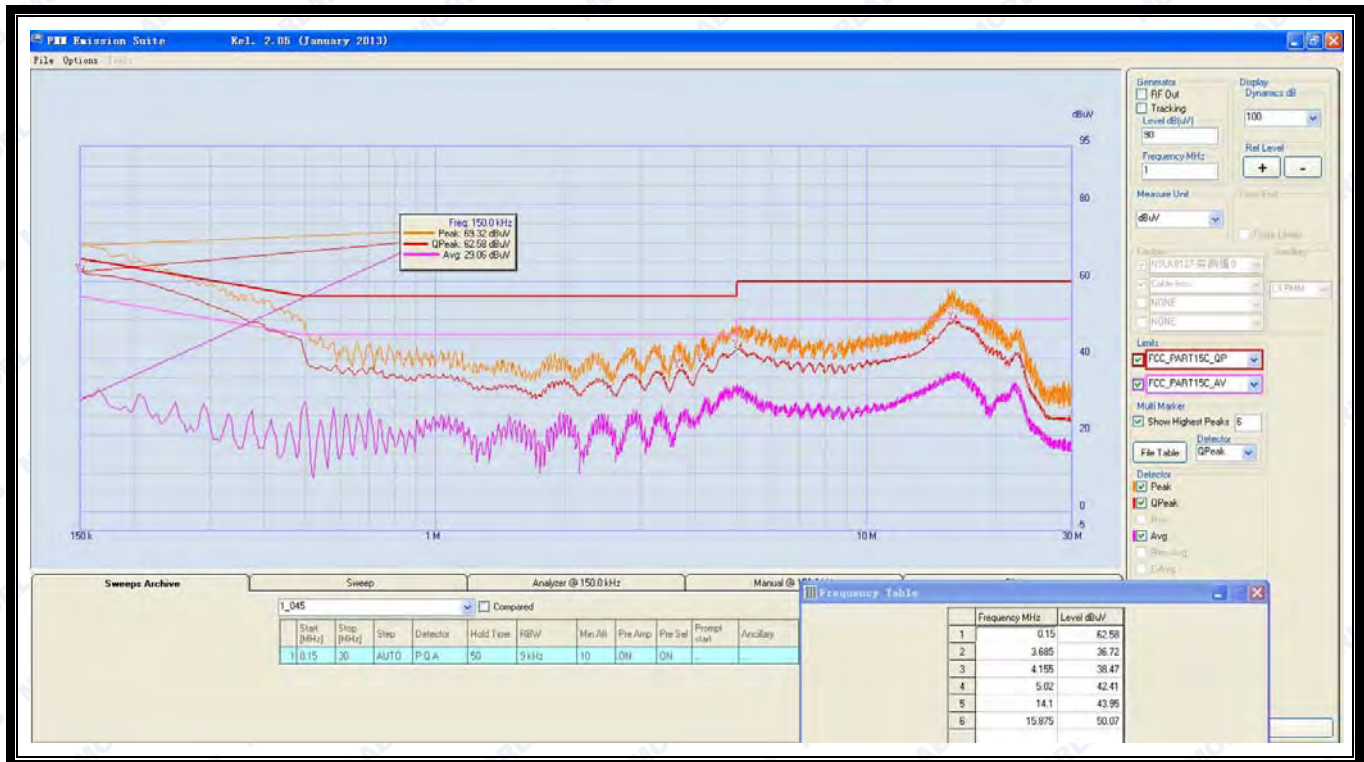
**A. Test setup:**

The EUT configuration of the emission tests is EUT + Link.

**Note:** The test voltage is AC 120V/60Hz.

**B. Test Plots:**

(Plot A: L Phase)



(Plot B: N Phase)



## 2.8 Radiated Emission

### 2.8.1 Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

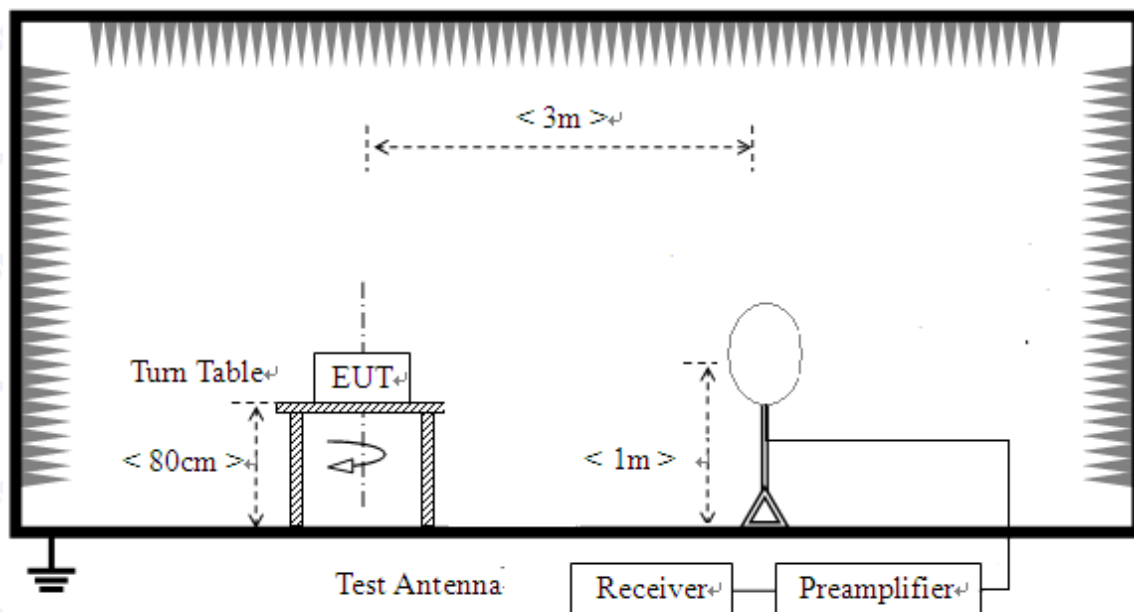
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)



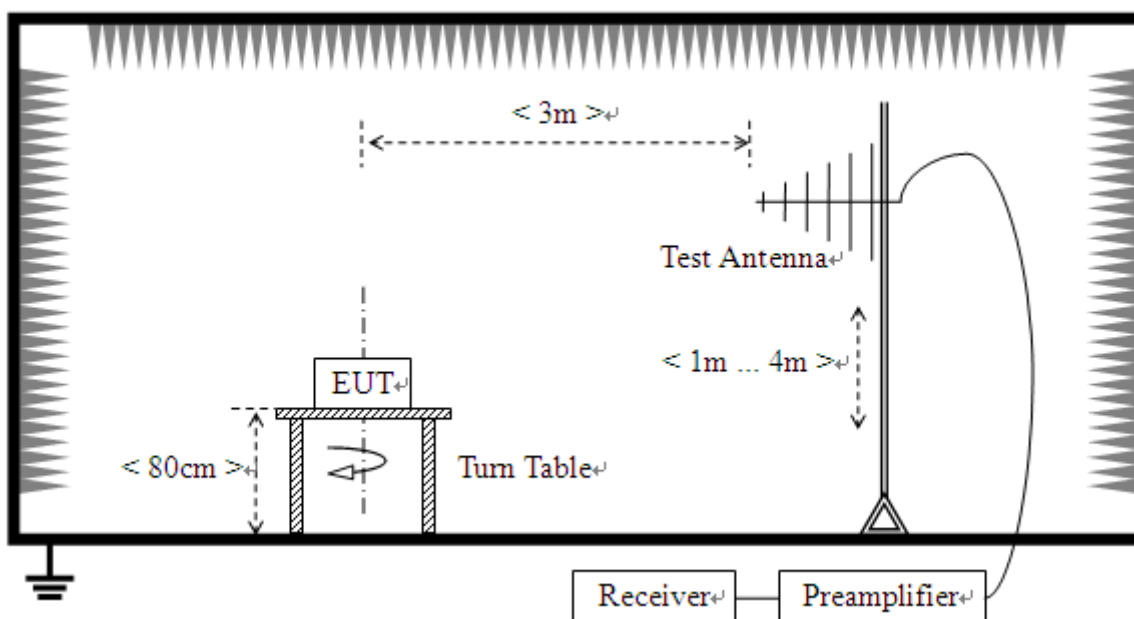
## 2.8.2 Test Description

### A. Test Setup:

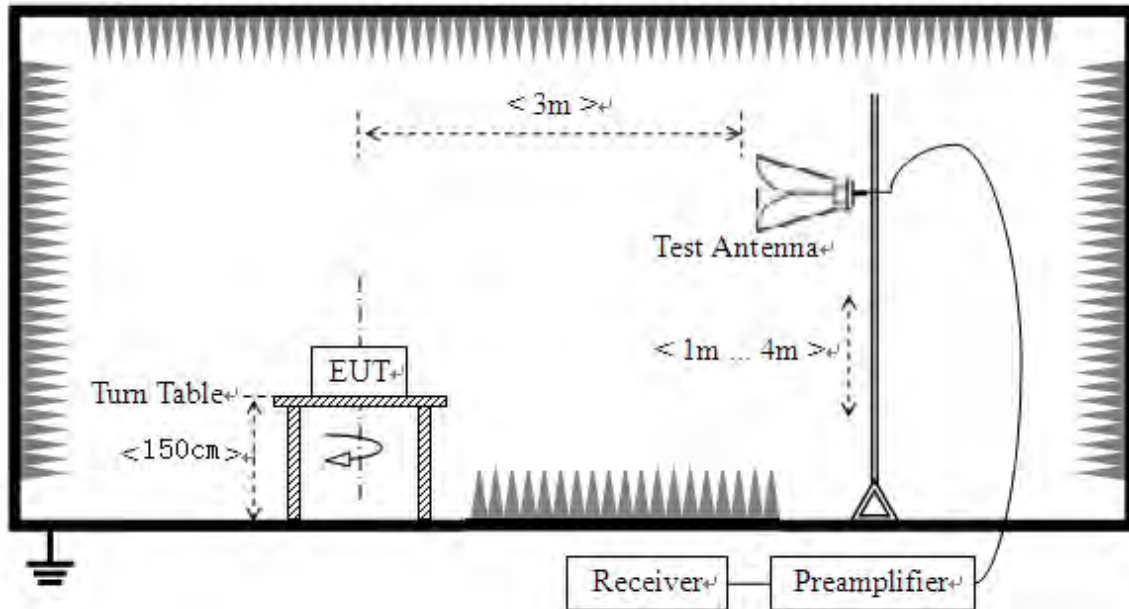
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



### 3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the radiated emission test above 1GHz:

Place the measurement antenna 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 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.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

- (a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna.



The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test 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 receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test 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. The emission levels at both horizontal and vertical polarizations should be tested.

## B. Equipments List:

Please reference ANNEX A(1.5).

### 2.8.3 Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  were built in test software.

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

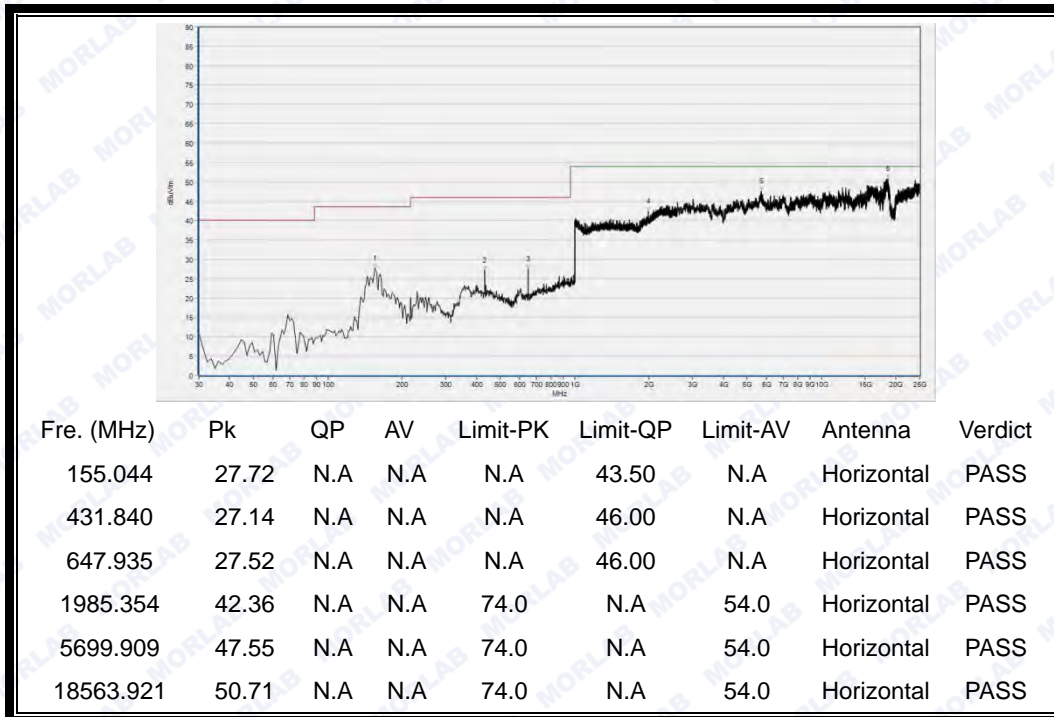




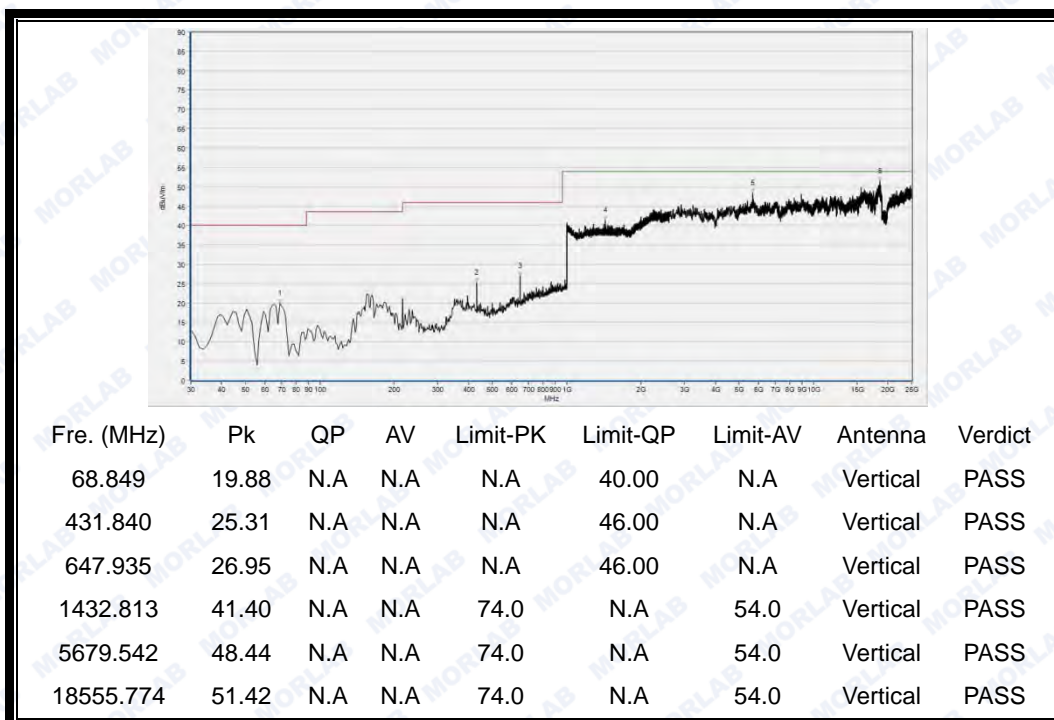
### 2.8.3.1 802.11b Test mode

#### A. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 1



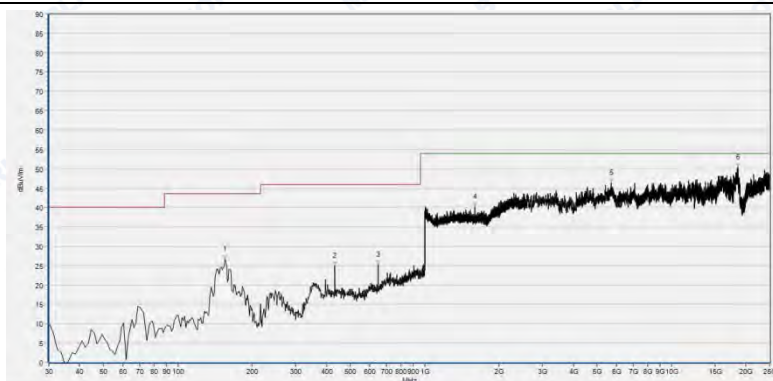
(Antenna Horizontal, 30MHz to 25GHz)



(Antenna Vertical, 30MHz to 25GHz)



Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
155.044	26.58	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
431.840	25.02	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
647.935	25.28	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1596.078	40.23	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5683.615	46.42	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18527.260	50.45	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
65.207	19.78	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
162.328	21.60	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
431.840	22.83	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
1370.708	40.01	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
4551.191	45.58	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18596.508	49.96	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Plot for Channel = 11



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
155.044	27.58	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
396.633	26.91	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
647.935	26.63	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2462.345	46.56	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
7031.933	46.95	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18502.819	50.58	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
68.849	20.42	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
431.840	25.96	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
647.935	26.54	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2461.705	46.27	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
5630.660	47.52	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18555.774	51.43	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

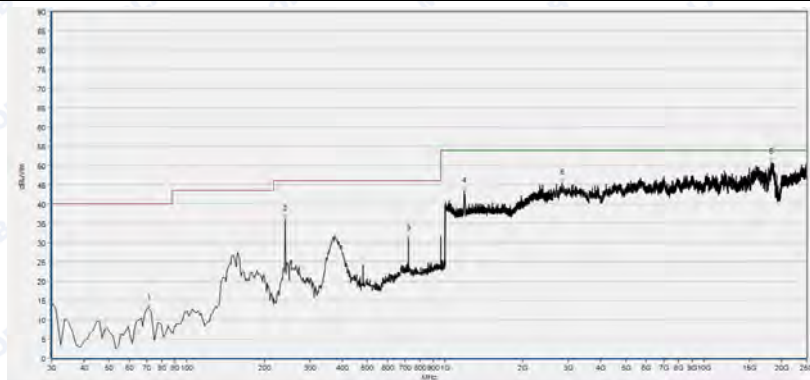




### 2.8.3.2 802.11g Test mode

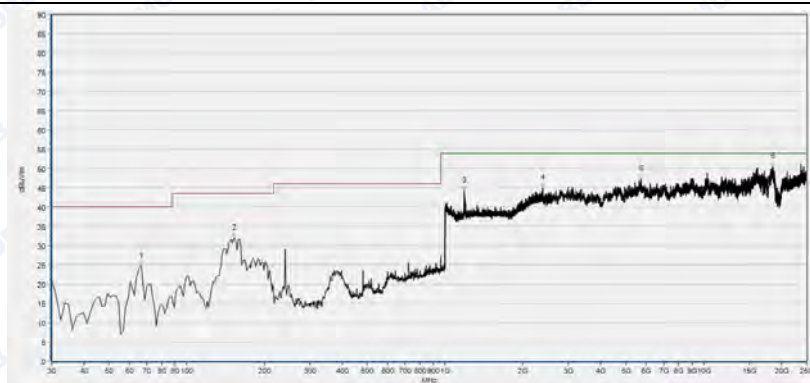
#### A. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 1



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
71.277	13.02	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
240.025	36.01	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
719.562	31.07	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1182.473	43.46	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
2824.041	45.49	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18331.733	50.96	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
66.421	24.61	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
152.616	32.00	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
1183.113	44.21	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
2382.953	44.96	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
5732.497	47.23	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18502.819	50.57	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
70.063	14.12	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
240.025	26.17	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
395.419	29.60	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1473.149	39.95	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5215.166	46.06	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18445.790	50.66	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

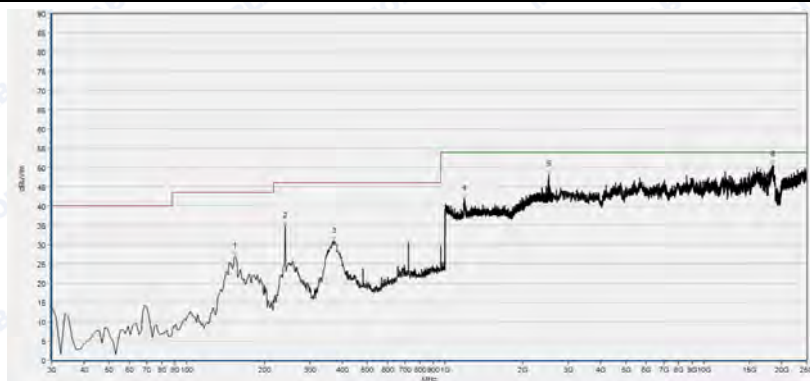


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
68.849	21.30	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
146.546	28.97	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
240.025	27.13	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
1399.520	39.38	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
7019.713	46.04	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18543.553	49.74	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Plot for Channel = 11



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
153.830	26.99	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
240.025	34.85	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
371.139	30.93	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1187.595	42.04	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
2516.767	48.19	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18515.039	50.80	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

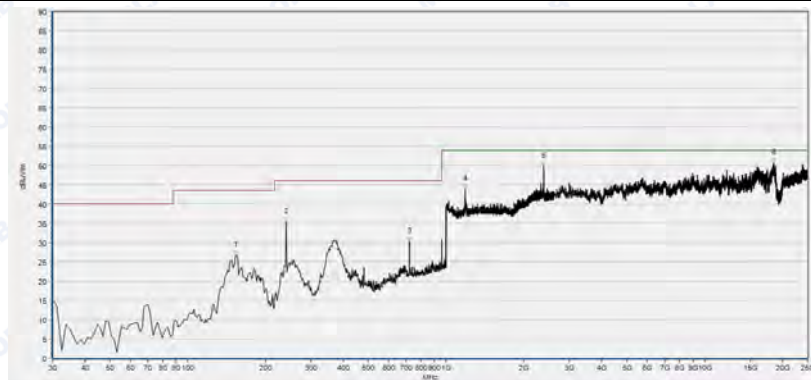
(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
68.849	21.57	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
146.546	29.49	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
240.025	26.80	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
1343.818	40.29	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
6404.619	46.10	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18502.819	49.28	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

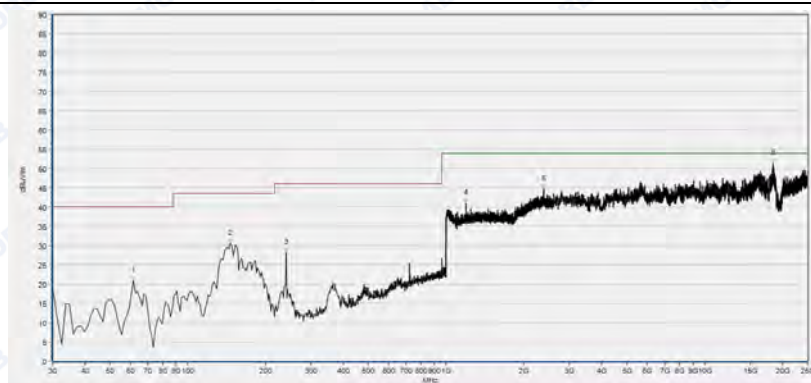
(Antenna Vertical, 30MHz to 25GHz)



**2.8.3.3 802.11n-20MHz Test mode****A. Test Plots for the Whole Measurement Frequency Range:**Plots for Channel = 1

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
153.830	26.85	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
240.025	35.36	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
719.562	30.29	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1181.833	43.96	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
2386.795	49.79	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18458.011	50.70	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
61.564	20.88	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
146.546	30.62	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
240.025	28.22	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
1193.357	41.07	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
2389.356	44.68	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18445.790	51.50	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
68.849	13.88	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
152.616	24.94	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
240.025	27.08	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2001.361	42.60	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5683.615	46.08	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18290.998	50.08	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

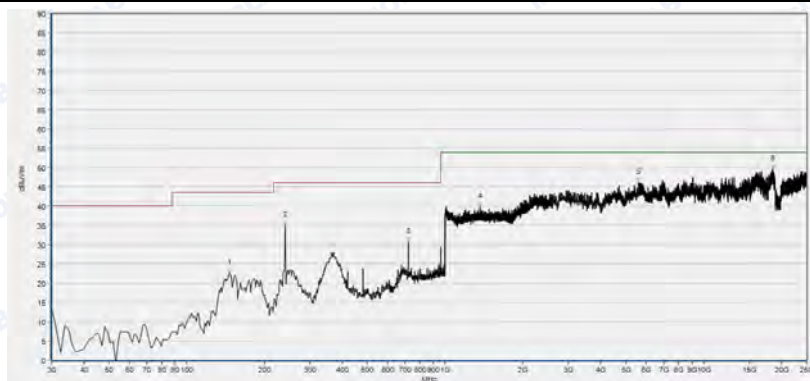


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
68.849	22.68	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
145.332	29.38	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
240.025	26.81	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2379.752	44.82	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
7080.815	46.28	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18563.921	51.14	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Plot for Channel = 11



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
146.546	22.74	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
240.025	35.01	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
719.562	30.65	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1366.226	39.80	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5598.072	46.24	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
18474.304	49.66	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
67.635	21.60	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
146.546	29.30	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
240.025	27.25	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
1270.828	39.71	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
2767.012	45.20	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
18510.966	50.67	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)





## ANNEX A GENERAL INFORMATION

### 1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

### 1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

### 1.3 Facilities and Accreditations

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2013 and CISPR Publication 22; the FCC registration number is 695796.

### 1.4 Maximum measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Measurements	Frequency	Uncertainty
Conducted emissions	9KHz~30MHz	2.44dB
Radiated emissions	30MHz~200MHz	2.93
	200MHz~1000MHz	2.95
	1GHz~18GHz	2.26
	18GHz~40GHz	1.94



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This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$

## 1.5 Test Equipments Utilized

### 1.5.1 Conducted Test Equipments

Conducted Test Equipment						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2016.03.02	2017.03.01
2	USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2016.03.02	2017.03.01
3	EXA Signal Analyzer	MY53470838	N9010A	Agilent	2016.03.02	2017.03.01
4	RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
5	Attenuator	(n.a.)	10dB	Resnet	N/A	N/A
6	SMA connector <small>Note</small>	CN01	RF03	HUBER-SUHNER	N/A	N/A
<b>Note:</b> The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.						

### 1.5.2 Radiated Test Equipments

Radiated Test Equipments						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due Date
1	System Simulator	GB45360846	8960-E5515C	Agilent	2016.03.02	2017.03.01
2	Receiver	MY54130016	N9038A	Agilent	2016.03.02	2017.03.01
3	Test Antenna - Bi-Log	N/A	VULB9163	Schwarzbeck	2016.03.02	2017.03.01
4	Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2016.03.02	2017.03.01
5	Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2016.03.02	2017.03.01
6	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2016.03.02	2017.03.01
7	Coaxial cable(N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
8	Coaxial cable(N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A



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9	1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2016.03.02	2017.03.01
10	18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2016.03.02	2017.03.01

### 1.5.3 Climate Chamber

#### Climate Chamber

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Climate Chamber	2004012	HL4003T	Yinhe	2016.03.02	2017.03.01

### 1.5.4 Vibration Table

#### Vibration Table

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Vibration Table	N/A	ACT2000- S015L	CMI-COM	2016.03.02	2017.03.01

### 1.5.5 Anechoic Chamber

#### Anechoic Chamber

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	Changning	2016.03.02	2017.03.01

### 1.5.6 Auxiliary Test Equipment

#### Auxiliary Test Equipment

No.	Equipment Name	Model No.	Brand Name	Manufacturer	Cal.Date	Cal.Due Date
1	Computer	T430i	Think Pad	Lenovo	N.A	N.A
2	AC Adapter	GSCU2000S 012V24G	GSP	N.A	N.A	N.A

Note: AC adapter rated input: ~ 100-240V, 50/60Hz, 800mA max; rated output: = 12V, 2000mA.

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