

## FCC TEST REPORT

For

MonkeyTab

Tablet PC

Model No.: MM7010T、MM8002T、MM8002Q、MM8002C、MM8002P、MM7010Q、  
MM7010S、MM7010、MM7018、MM9701、MM9702、MM9703、MM9704、  
MM9705、MM9001、MM9002、MM9003、MM9004、MM9005、MM1001、  
MM1002、MM1003、MM1004、MM1005

Prepared for : MonkeyTab  
Address : 2809 Fair timber Way, Mckinney, Texas, USA

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : 1F., Xingyuan Industrial Park, Tongda Road, Bao'an Blvd., Bao'an  
District, Shenzhen, Guangdong, China

Date of receipt of test sample : January 14, 2013  
Number of tested samples : 1  
Serial number : Prototype  
Date of Test : January 14, 2013 –January 29, 2013  
Date of Report : January 29, 2013



**FCC -- TEST REPORT****Test Report No. : LCS130122265TF**January 29, 2012

Date of issue

Type / Model..... : MM7010T

EUT..... : Tablet PC

**Applicant..... : MonkeyTab**

Address..... : 2809 Fair timber Way, Mckinney, Texas, USA

Telephone..... : /

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**Manufacturer..... : Shenzhen Mammon Technology Co., Ltd.**Address..... : 2/F east, the second Building, Shunheda, Liuxiandong Industrial Zone,  
Xili Town, Shenzhen, China

Telephone..... : /

Fax..... : /

**Factory..... : Shenzhen Mammon Technology Co., Ltd.**Address..... : 2/F east, the second Building, Shunheda, Liuxiandong Industrial Zone,  
Xili Town, Shenzhen, China

Telephone..... : /

Fax..... : /

**Test Result:****Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	: Tablet PC
Model Number	: MM7010T
Power Supply	: For power supply: Input: 100-240V~, 50/60Hz, 0.32A : Output: 5V==, 2000mA For Android BAR: 5V==, 1.8A
Frequency Range (BLE V4.0)	: 2402.00-2480.00MHz, (Channel Number: 40, Channel Frequency=2412+2(K-1), K=1, 2, 3 .....40)
Frequency Range (WIFI)	: 2412.00-2462.00MHz, (Channel Number: 11, Channel Frequency=2412+5(K-1), K=1, 2, 3 .....11)
Modulation Technology	: Bluetooth V4.0-LE: GFSK IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)
Data Rates	: Bluetooth V4.0-LE: 1Mbps IEEE 802.11b: 1-11Mbps IEEE 802.11g: 6-54Mbps IEEE 802.11n HT20: 6.5-65Mbps
Antenna Gain	: 0dBi(Max.)

## 1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
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## 1.3. External I/O Port

I/O Port Description	Quantity	Cable
USB Port	1	0.3m,unshielded
HDMI Port	1	N/A
Earphone Port	1	1.2m,unshielded
TF CARD Port	1	N/A

## 1.4. Description of Test Facility

### Site Description EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

## 1.5. Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	$\pm 3.10\text{dB}$	(1)
		30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
		200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
		1GHz~26.5GHz	$\pm 3.80\text{dB}$	(1)
Conduction Uncertainty	:	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance	:	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

## 1.7. Description Of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in Z position.

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be BLE V4.0(high channel) & 802.11b mode(high channel).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be BLE V4.0(high channel) & 802.11b mode(high channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

BLE V4.0 : 1Mbps, GFSK

802.11b Mode : 1 Mbps, DSSS.

802.11g Mode : 6 Mbps, OFDM.

802.11n Mode HT20: 6.5Mbps, OFDM.

\*\*\*Note: The EUT does not support 802.11n(HT40).



## 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C and RSS-210.

### 2.3. General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4

### **3. SYSTEM TEST CONFIGURATION**

#### **3.1. Justification**

The system was configured for testing in a continuous transmit condition.

#### **3.2. EUT Exercise Software**

N/A

#### **3.3. Special Accessories**

N/A

#### **3.4. Block Diagram/Schematics**

Please refer to the related document

#### **3.5. Equipment Modifications**

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### **3.6. Test Setup**

Please refer to the test setup photo.

## 4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C & RSS-210			
FCC Rules	IC Rules	Description of Test	Result
§15.247(b)	A8.4	Maximum Conducted Output Power	Compliant
§15.247(e)	A8.2(b)	Power Spectral Density	Compliant
§15.247(a)(2)	A8.2(a)	6dB Bandwidth	Compliant
§15.247(a)	A8.2(a)	Occupied Bandwidth	Compliant
§15.209, §15.247(d)	A8.5	Radiated and Conducted Spurious Emissions	Compliant
§15.205	A8.5	Emissions at Restricted Band	Compliant
§15.207(a)	RSS-Gen	Conducted Emissions	Compliant
§15.203	RSS-Gen	Antenna Requirements	Compliant
§15.247(i)§2.1093	RSS-102	RF Exposure(MPE)	Compliant

## 5. TEST RESULT

### 5.1. Maximum Conducted Output Power Measurement

#### 5.1.1. Standard Applicable

According to §15.247(b) & A8.4: For systems using digital modulation in the 2400-2483.5MHz, the limit for maximum peak conducted output power is 30dBm. The limit has to be reduced by the amount in dB that the gain of the antenna exceeds 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

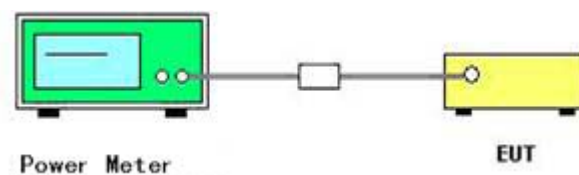
#### 5.1.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the power meter.

#### 5.1.3. Test Procedures

The transmitter output (antenna port) was connected to the power meter.

#### 5.1.4. Test Setup Layout



#### 5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.6 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Last Cal.
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	2012-06-18	2013-06-17
2	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2012-06-18	2013-06-17
3	DC Filter	MPE	23872C	N/A	2012-06-18	2013-06-17

## 5.1.7. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidity	60%
Test Engineer	Leo Lee	Configurations	BLE V4.0, 802.11b,g,n

## BLE V4.0

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2402	0.61	30	Complies
20	2440	0.77	30	Complies
40	2480	1.21	30	Complies

## 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412	9.47	30	Complies
6	2437	9.51	30	Complies
11	2462	9.74	30	Complies

## 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412	8.61	30	Complies
6	2437	8.66	30	Complies
11	2462	8.83	30	Complies

## 802.11n HT20

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412	7.59	30	Complies
6	2437	7.67	30	Complies
11	2462	7.71	30	Complies

## 5.2. Power Spectral Density Measurement

### 5.2.1. Standard Applicable

According to §15.247(e) & A8.2(b): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

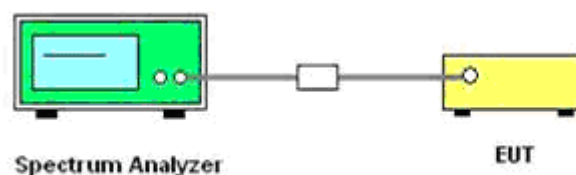
### 5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of Spectrum Analyzer.

### 5.2.3. Test Procedures

1. The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3. Set the RBW = 3 kHz.
4. Set the VBW  $\geq 3 \times$  RBW
5. Set the span to 1.5 times the DTS channel bandwidth.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum power level in any 3 kHz band segment within the fundamental EBW.

### 5.2.4. Test Setup Layout



### 5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 5.2.6 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Last Cal.
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	2012-06-18	2013-06-17
2	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2012-06-18	2013-06-17
3	DC Filter	MPE	23872C	N/A	2012-06-18	2013-06-17

### 5.2.7. Test Result of Power Spectral Density

Temperature	25℃	Humidity	60%
Test Engineer	Leo Lee	Configurations	BLE V4.0, 802.11b,g,n

#### BLE V4.0

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2402	-24.64	8	Complies
20	2440	-23.92	8	Complies
40	2480	-24.62	8	Complies

#### 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412	-8.11	8	Complies
6	2437	-8.64	8	Complies
11	2462	-9.13	8	Complies

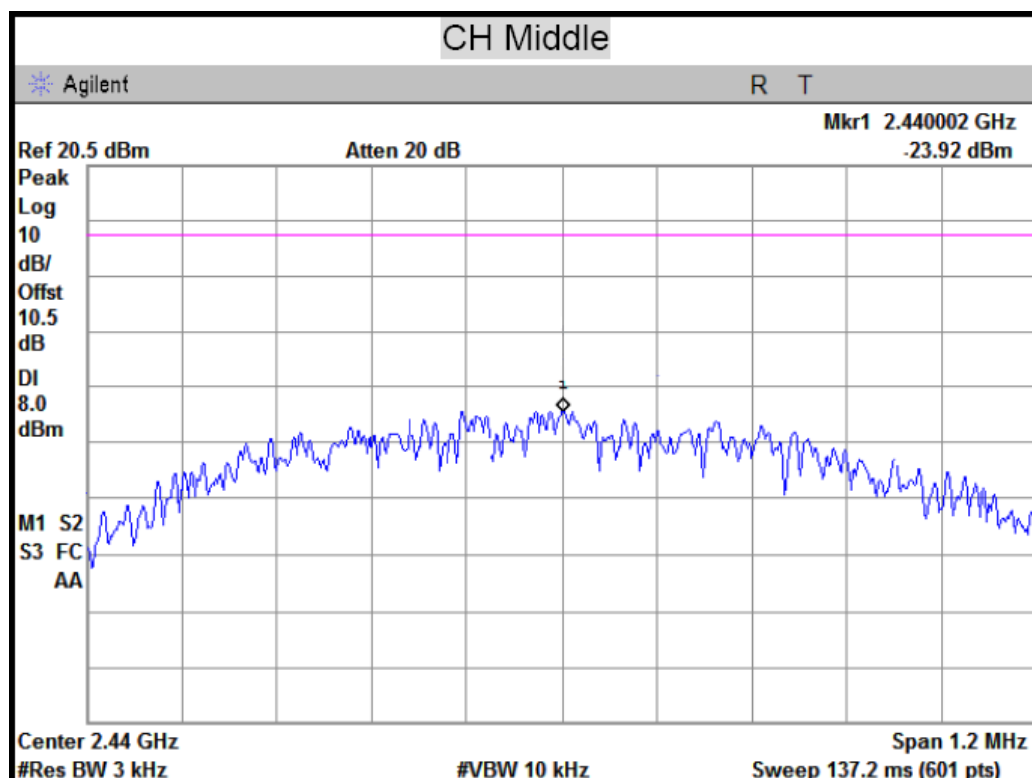
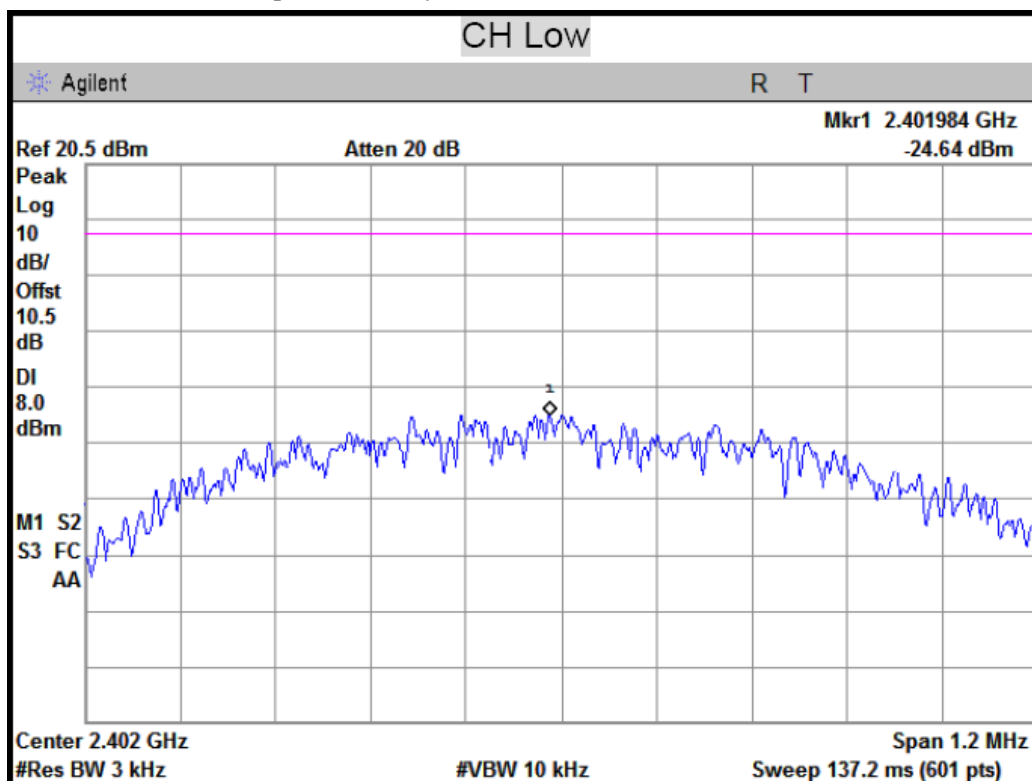
#### 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412	-14.44	8	Complies
6	2437	-14.91	8	Complies
11	2462	-14.46	8	Complies

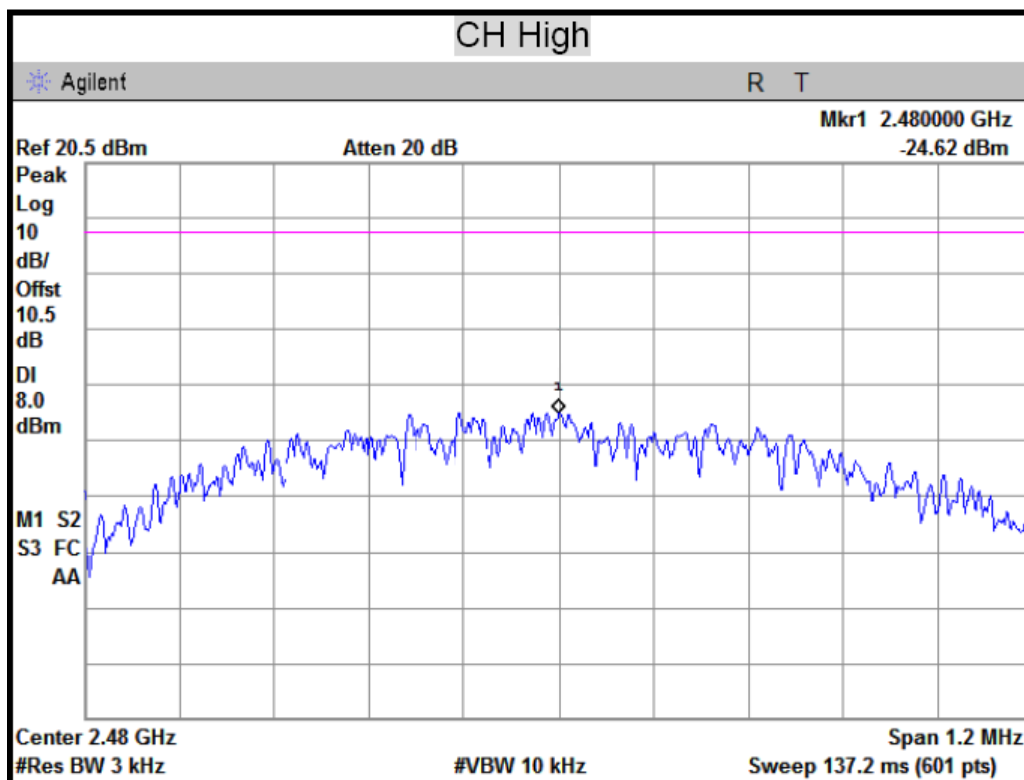
#### 802.11n HT20

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412	-14.14	8	Complies
6	2437	-14.41	8	Complies
11	2462	-14.43	8	Complies

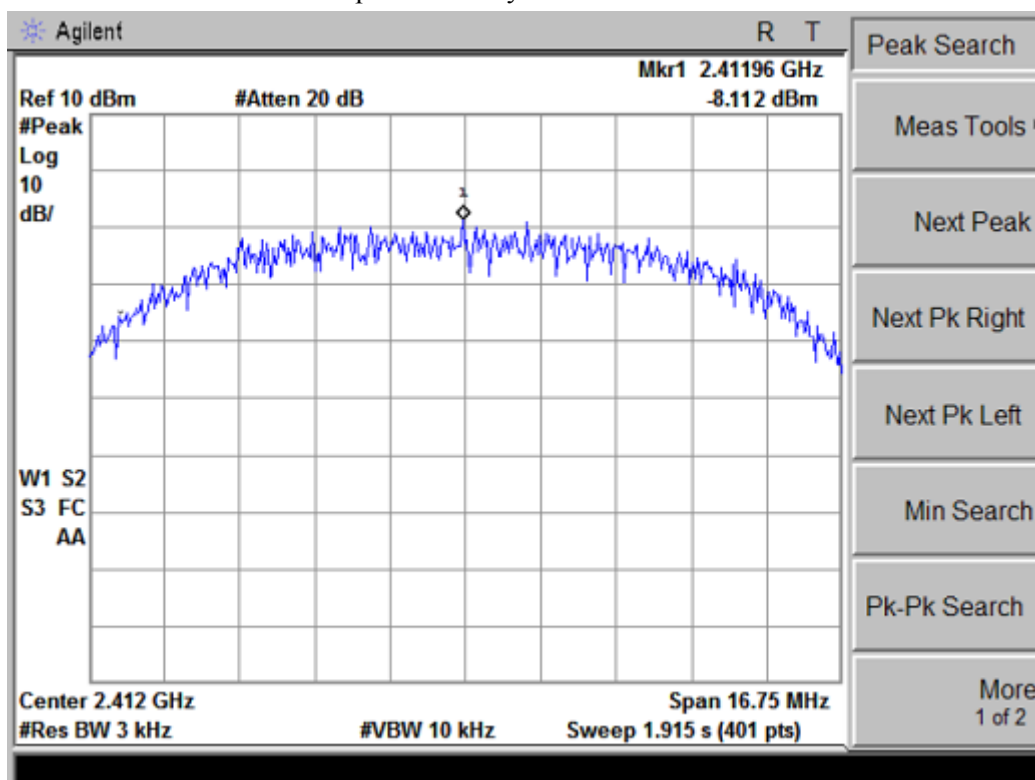
BLE V4.0 channel power density

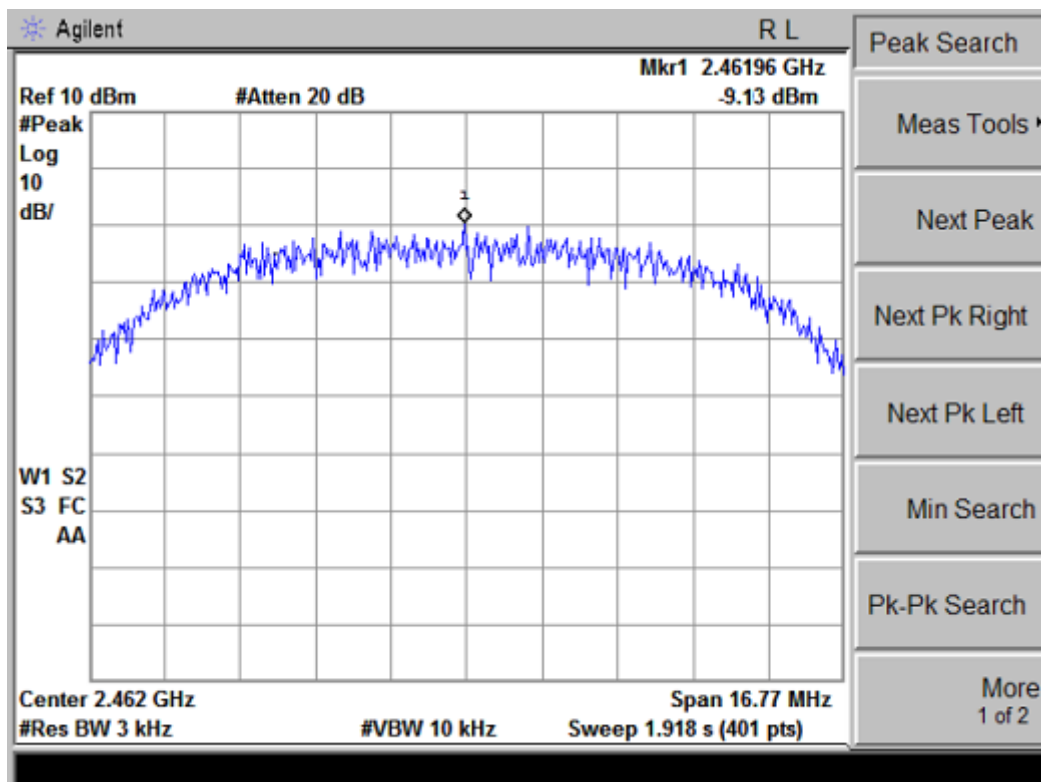
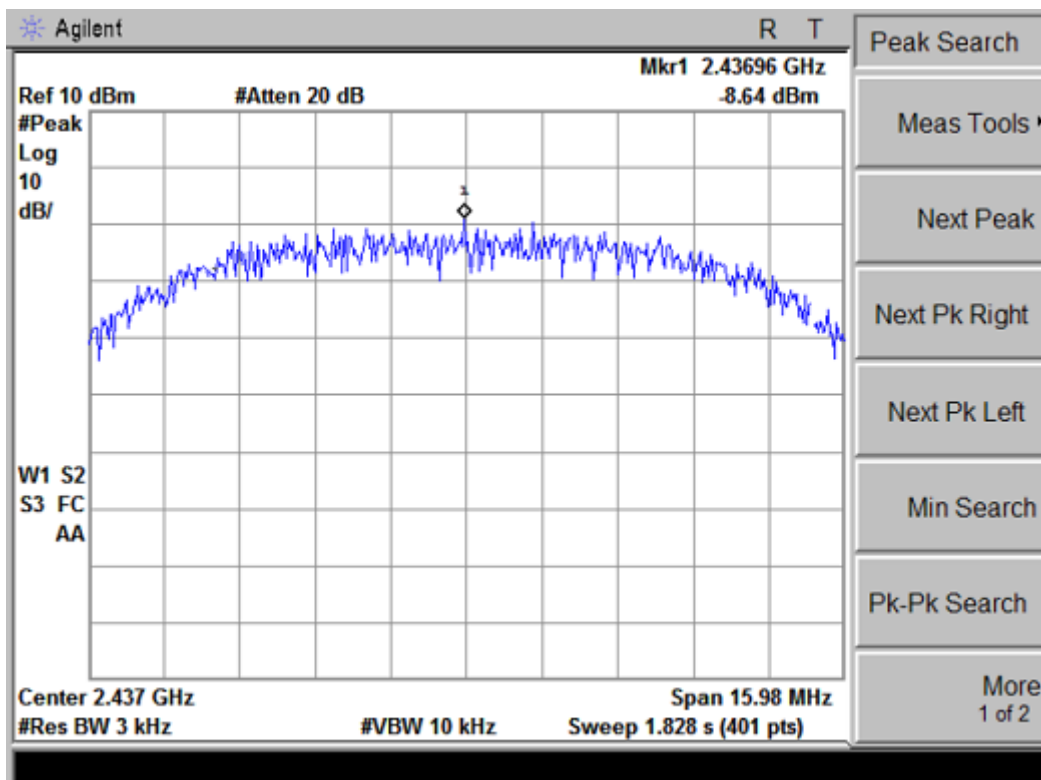




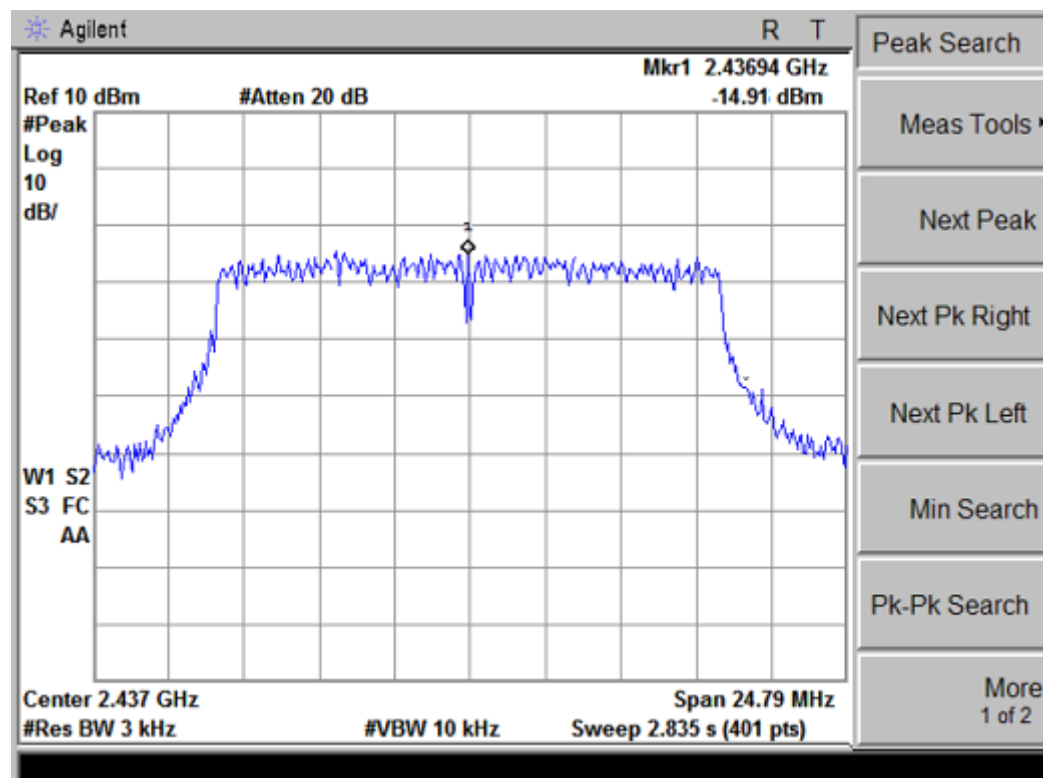
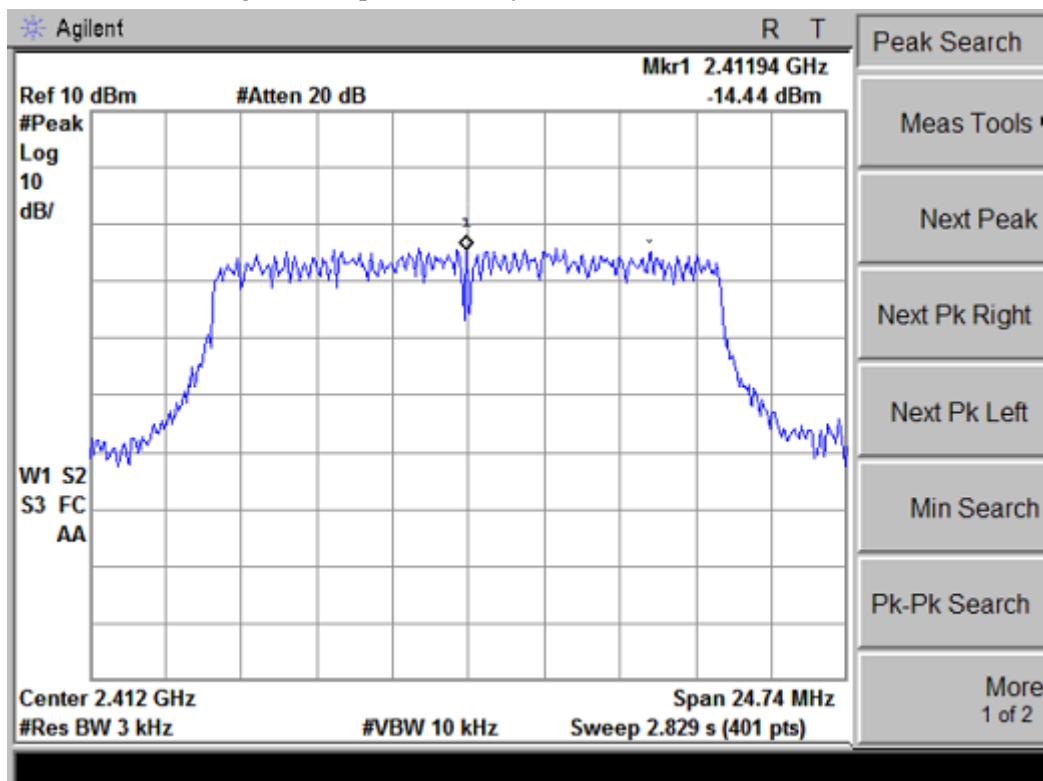


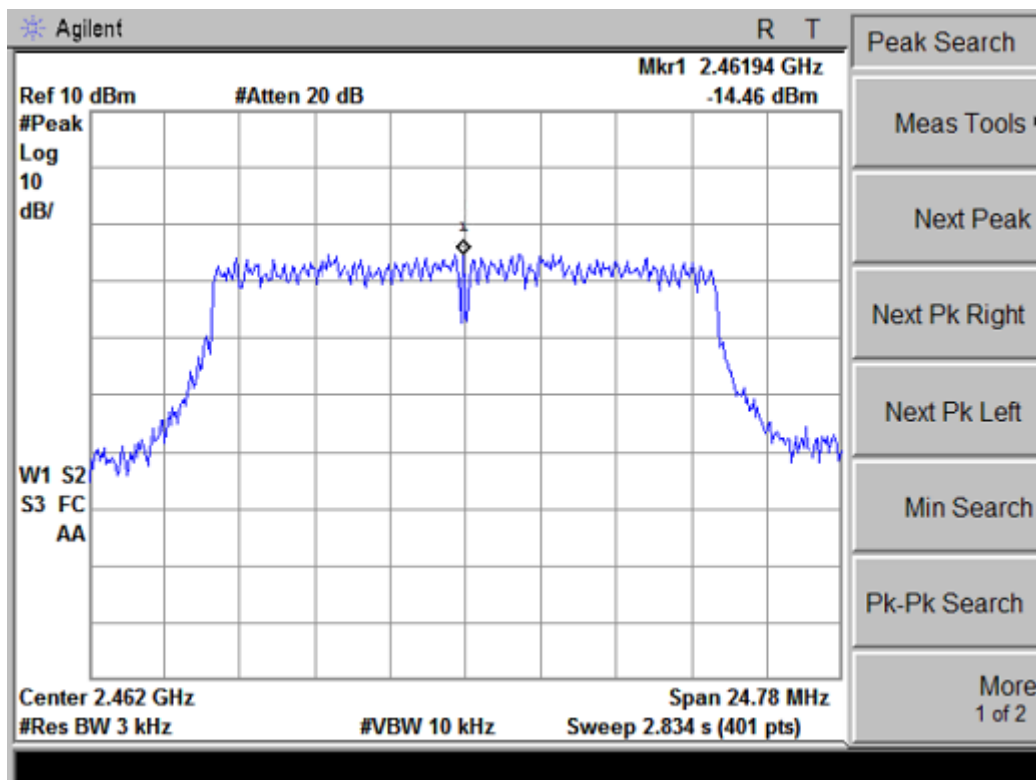
802.11b channel power density



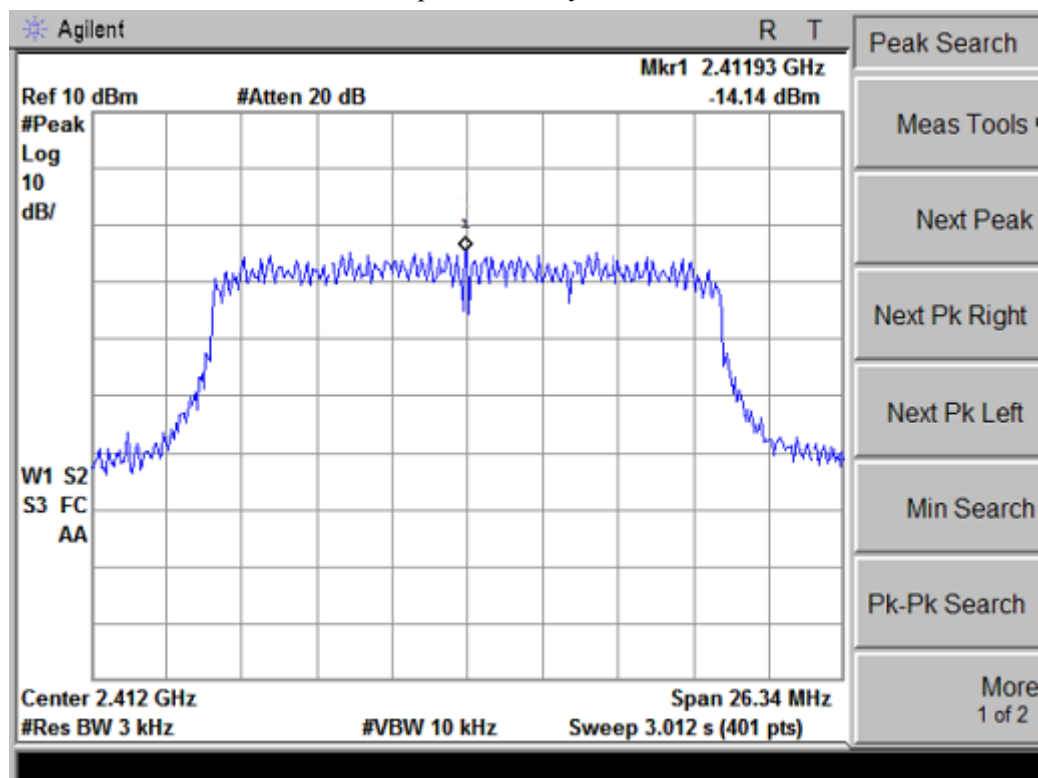


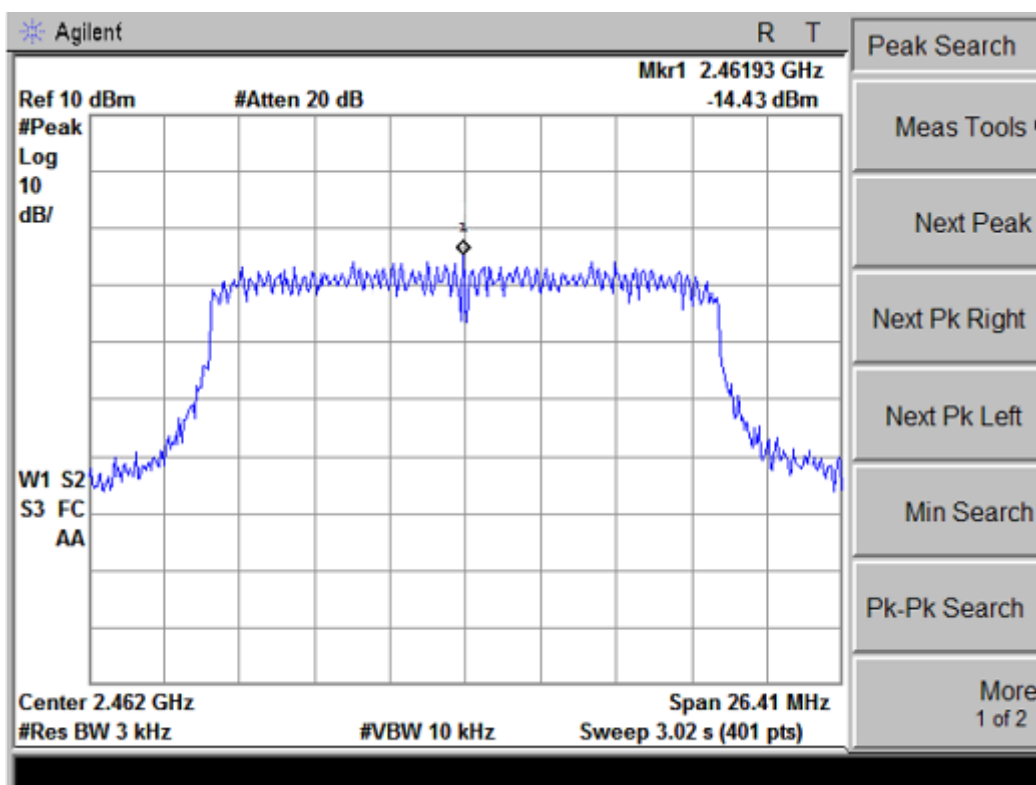
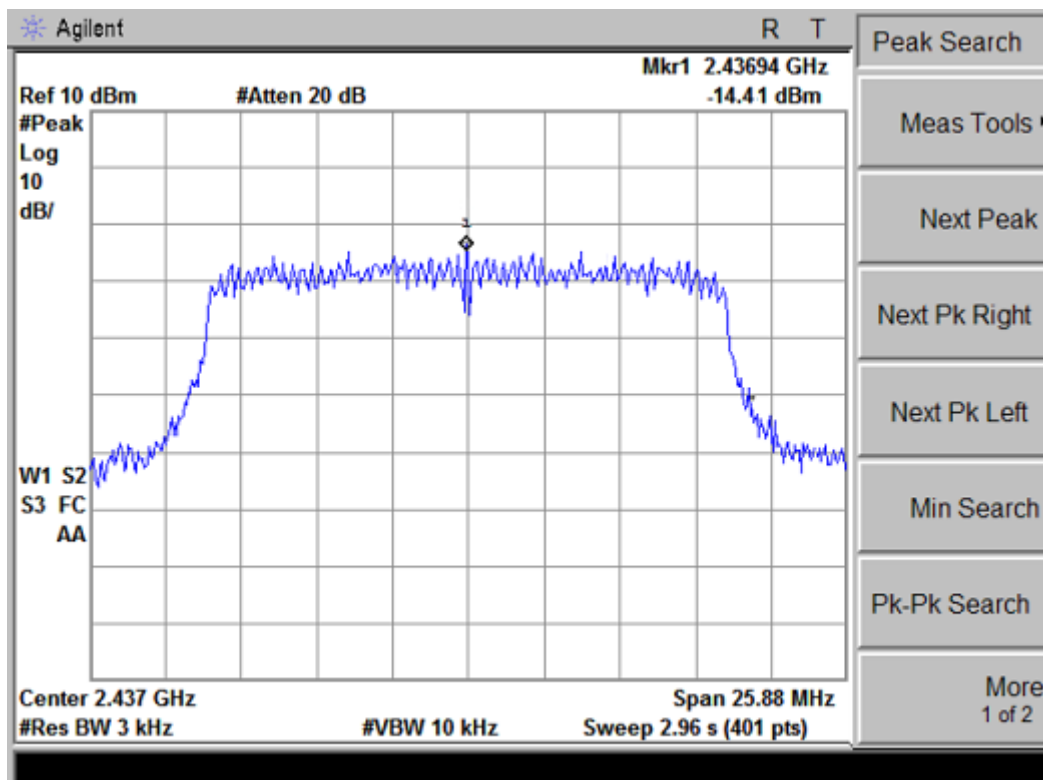
802.11g channel power density





802.11n HT20 channel power density





### 5.3. 6 dB Spectrum Bandwidth Measurement

#### 5.3.1. Standard Applicable

According to §15.247(a)(2) & A8.2(a): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

#### 5.3.2. Measuring Instruments and Setting

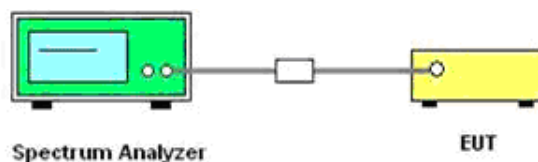
Please refer to section 6 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

#### 5.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to KDB558074.
3. Measured the spectrum width with power higher than 6dB below carrier.

#### 5.3.4. Test Setup Layout



#### 5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.3.6 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Last Cal.
1	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2012-06-18	2013-06-17
2	Signal analyzer	R&S	FSIQ26	102986	2012-06-18	2013-06-17
3	DC Filter	MPE	23872C	N/A	2012-06-18	2013-06-17

### 5.3.7. Test Result of 6dB Spectrum Bandwidth

Temperature	25℃	Humidity	60%
Test Engineer	Leo Lee	Configurations	BLE V4.0, 802.11b,g,n

#### BLE V4.0

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2402	0.656	500	Complies
20	2440	0.632	500	Complies
40	2480	0.652	500	Complies

#### 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	10.16	500	Complies
6	2437	10.16	500	Complies
11	2462	10.16	500	Complies

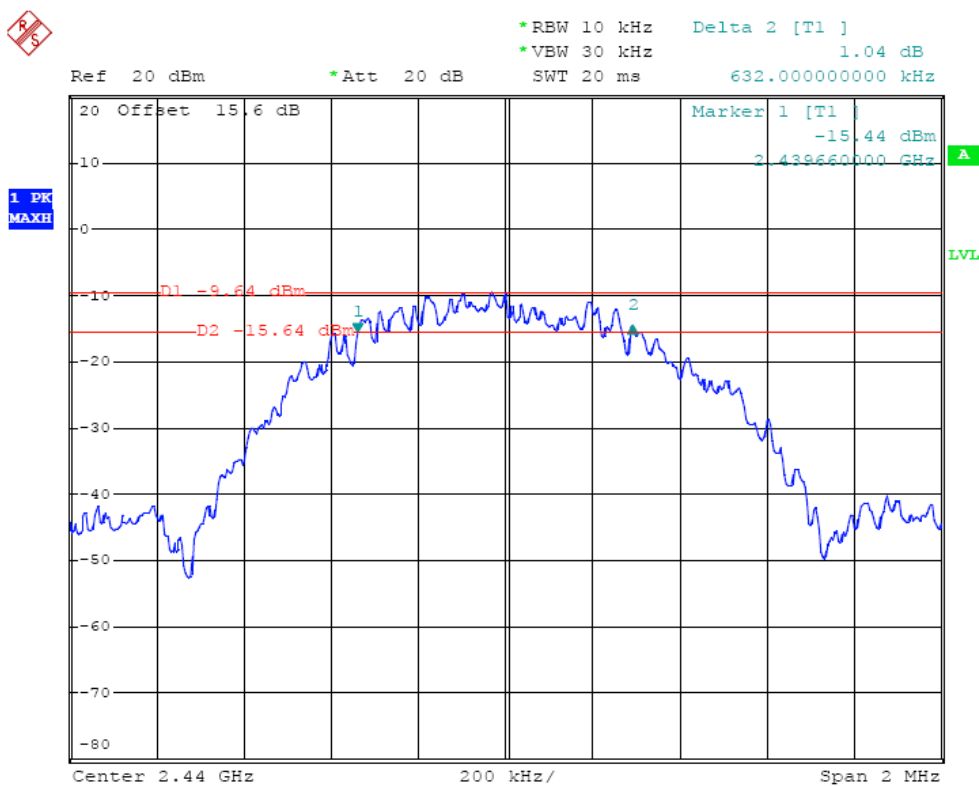
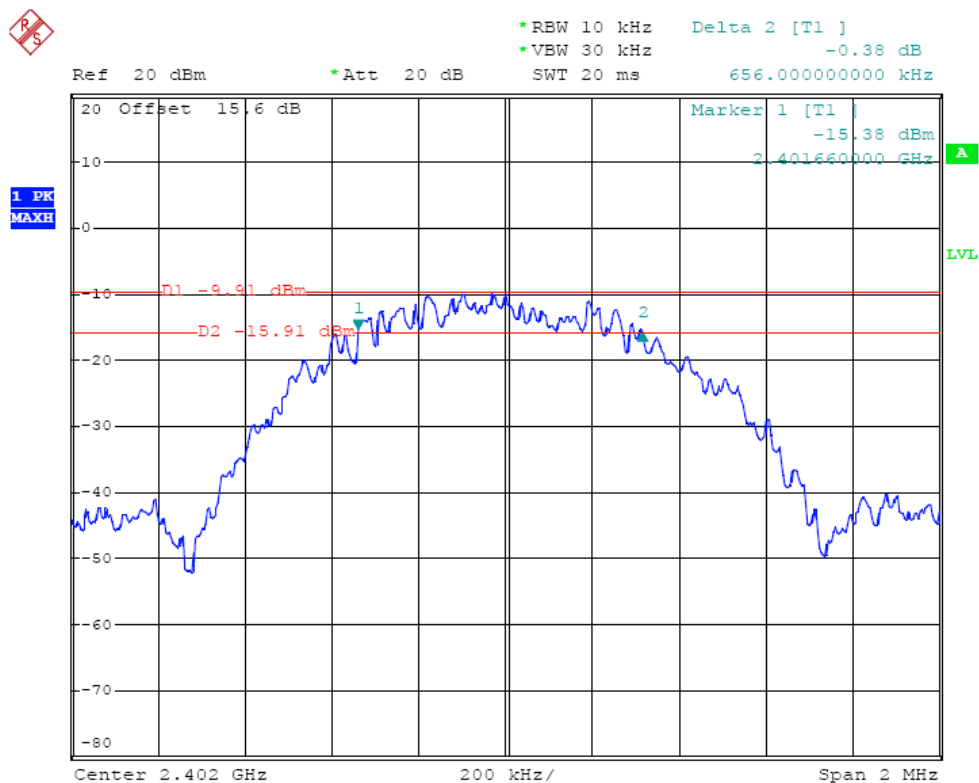
#### 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	16.72	500	Complies
6	2437	16.72	500	Complies
11	2462	16.72	500	Complies

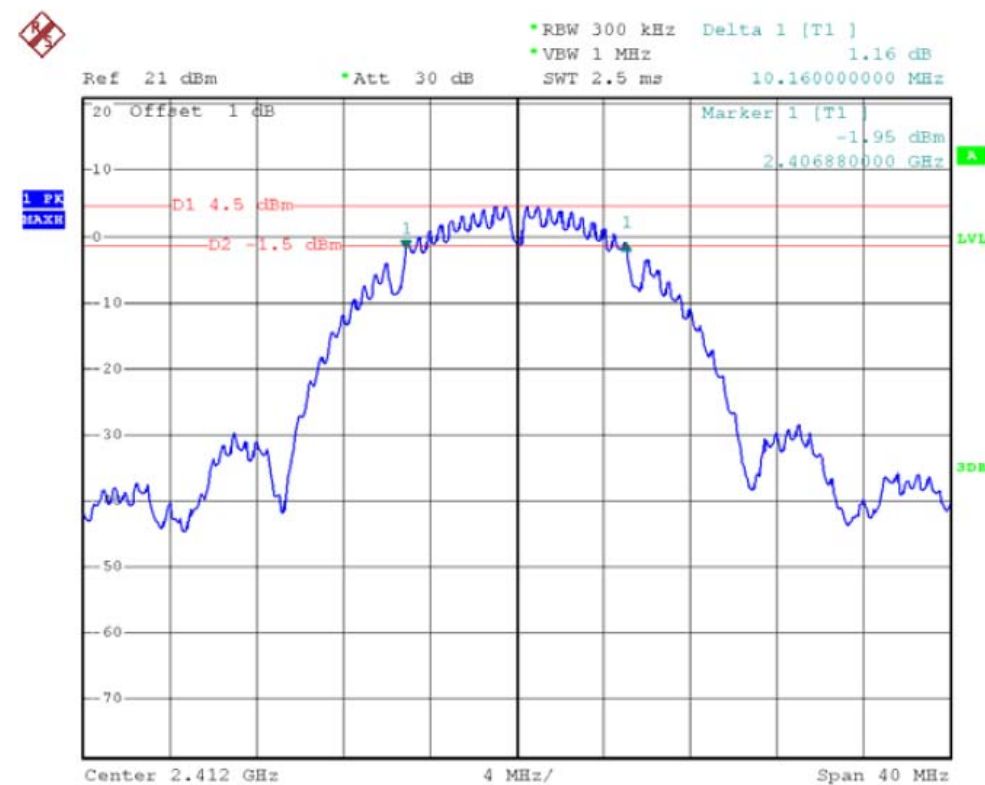
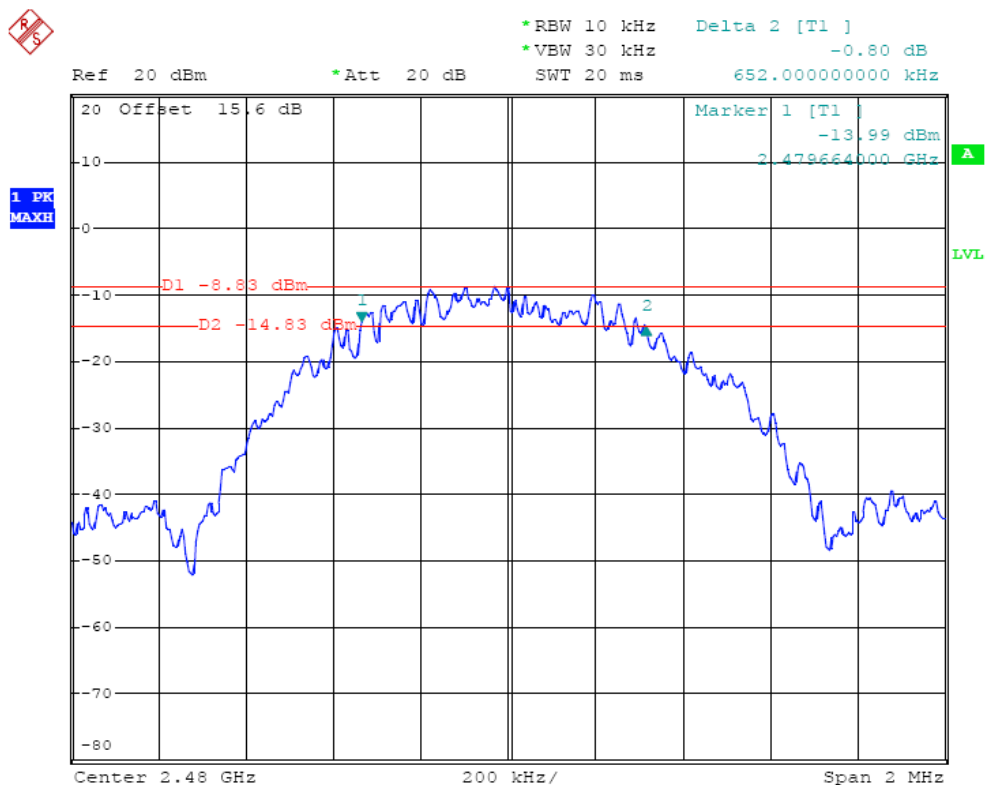
#### 802.11n HT20

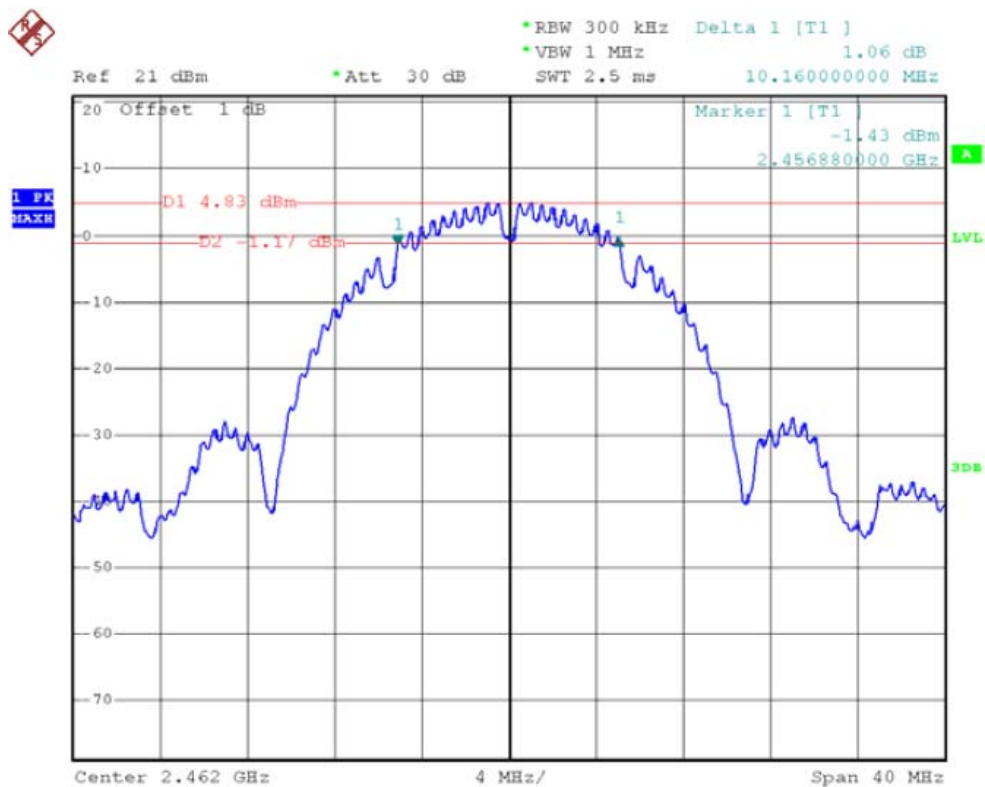
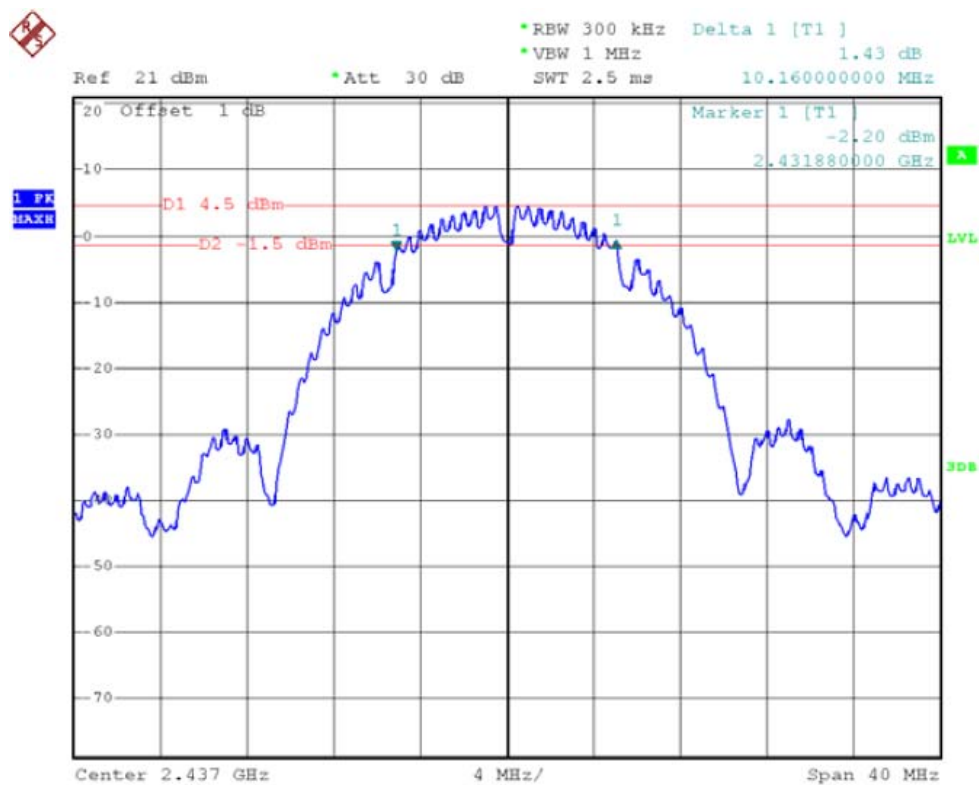
Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	17.92	500	Complies
6	2437	17.92	500	Complies
11	2462	17.92	500	Complies

BLE V4.0 channel, 6dB bandwidth

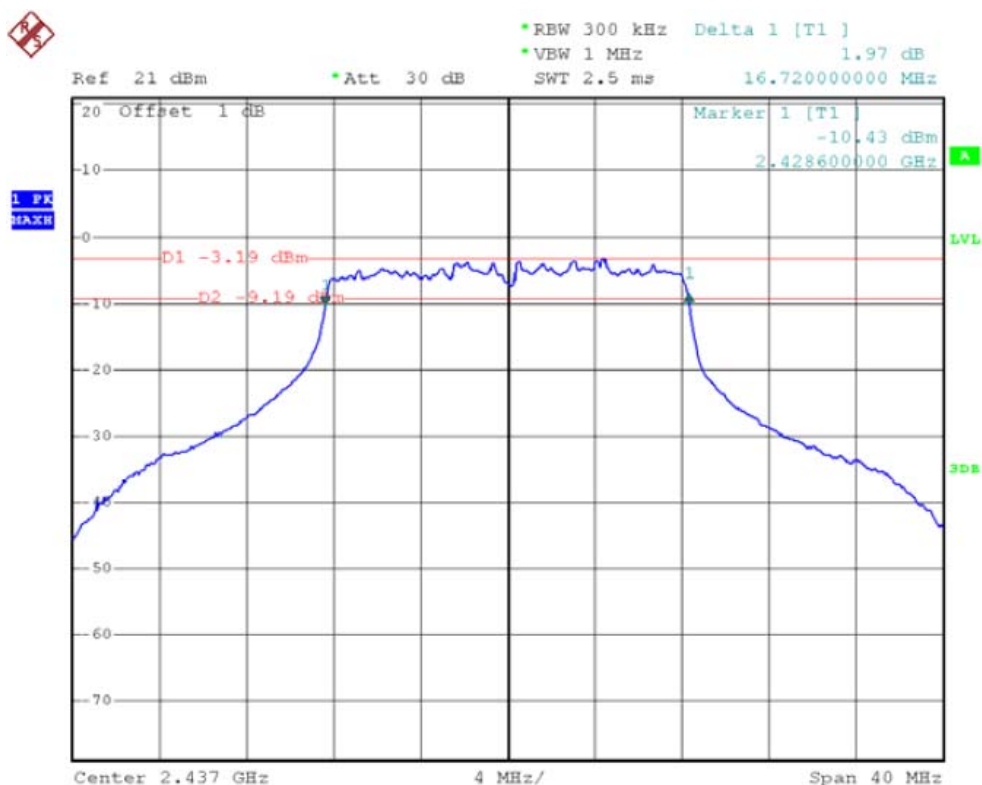
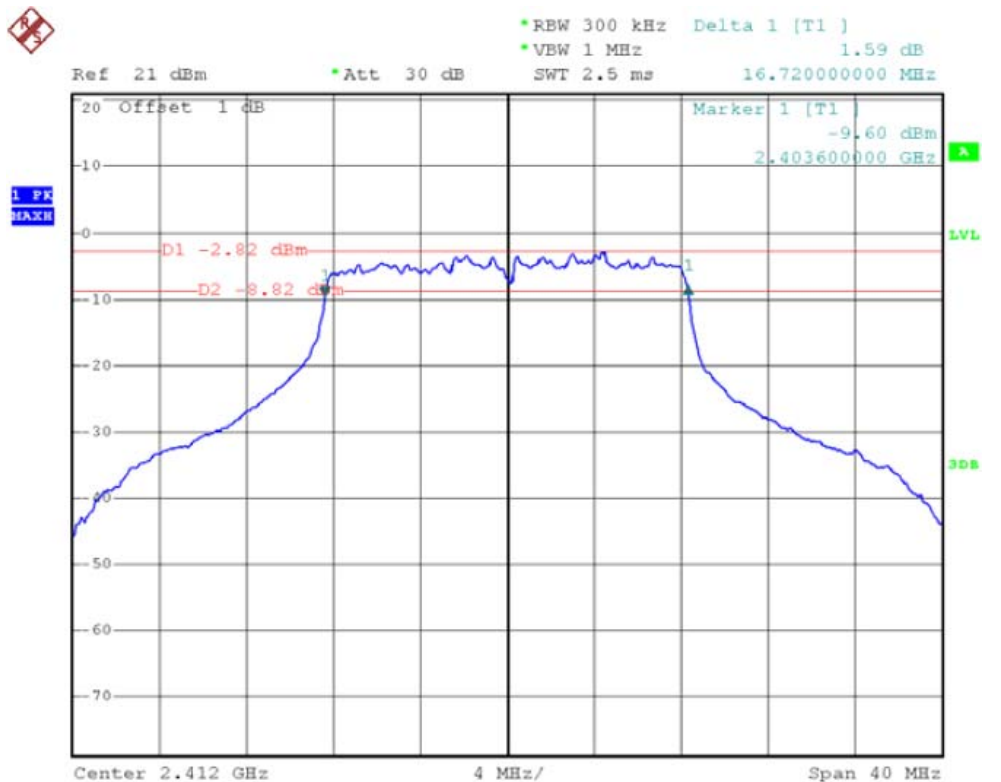


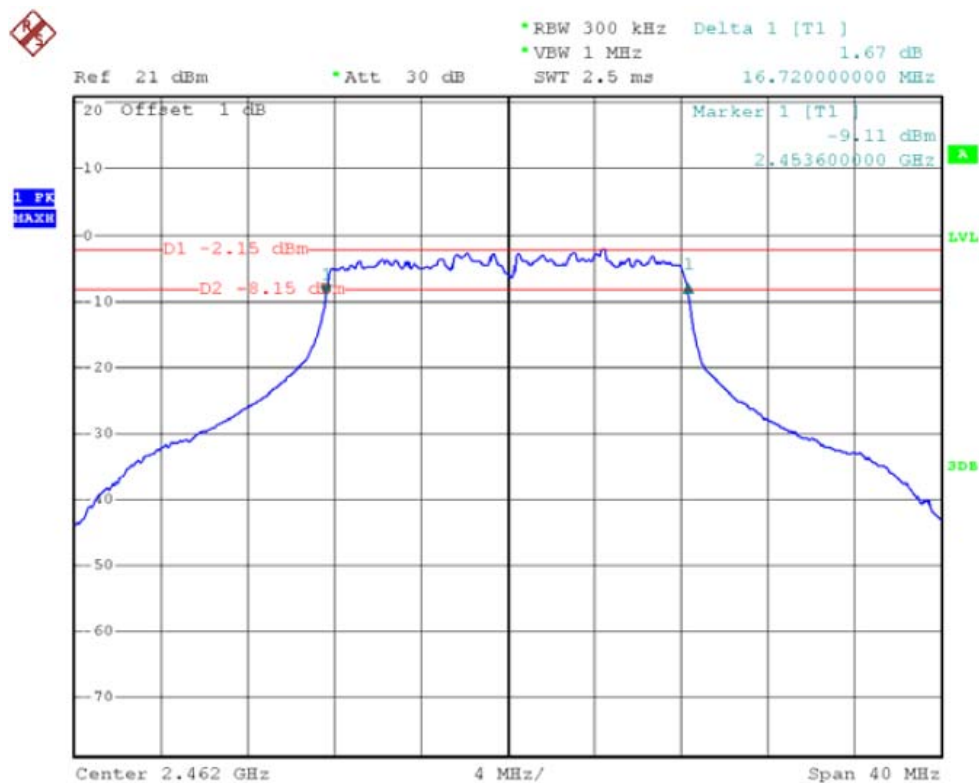




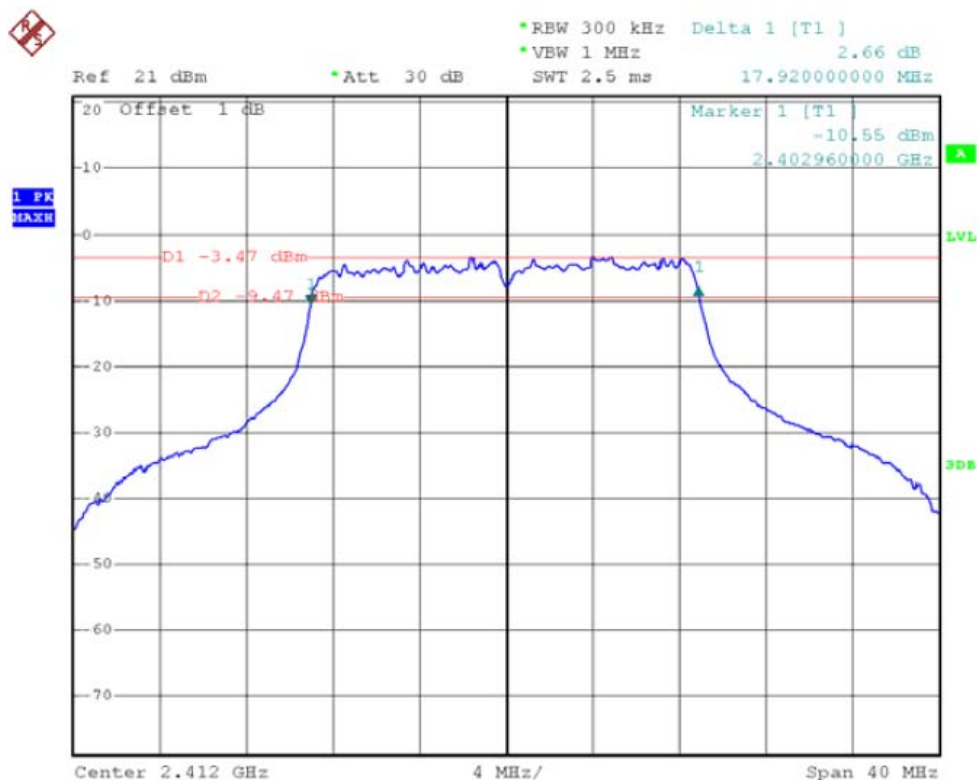


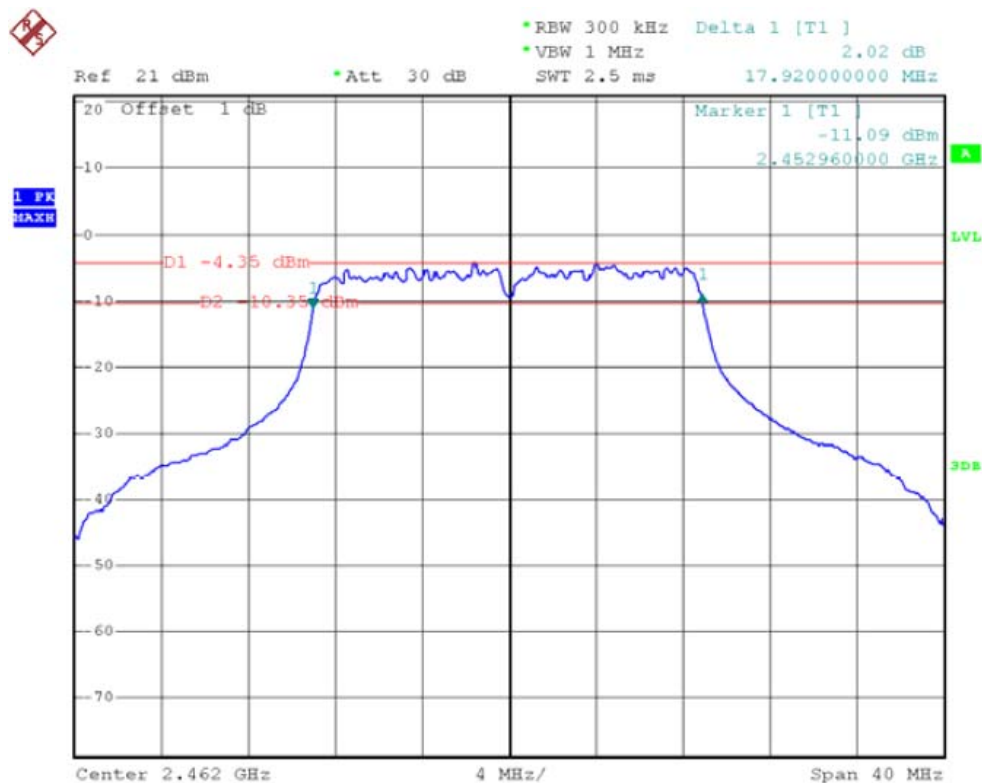
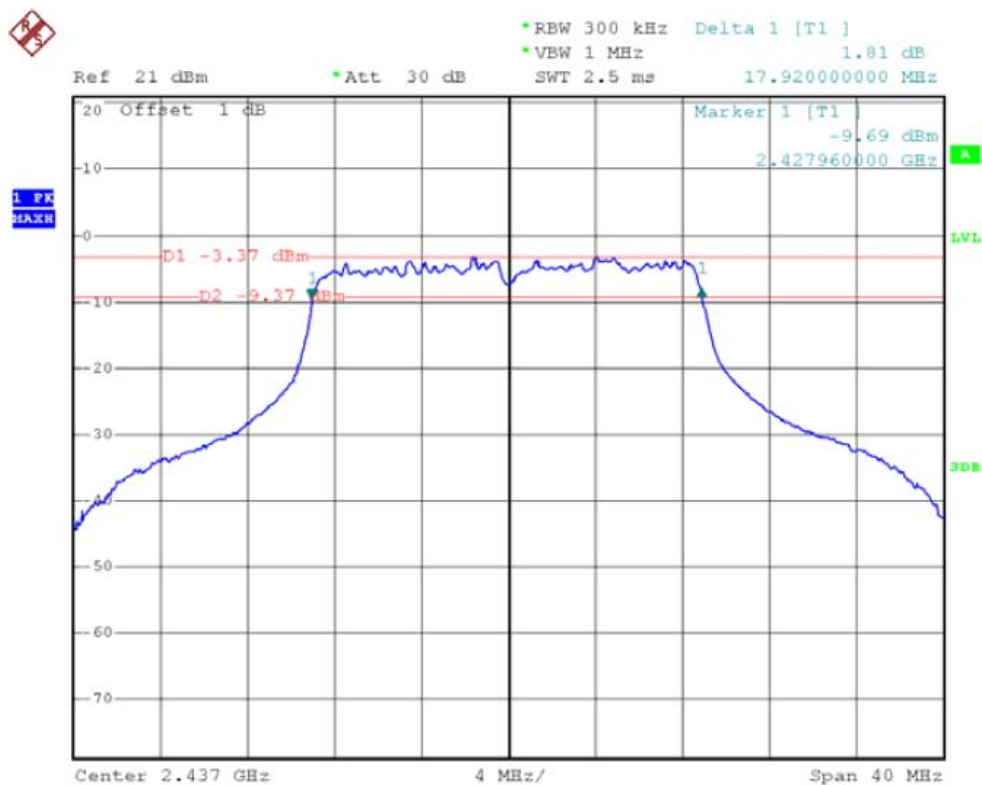
802.11g channel, 6dB bandwidth





802.11n HT20 channel, 6dB bandwidth





## 5.4. Occupied Bandwidth

### 5.4.1. Standard Applicable

According to §15.247(a) & A8.2(a): Operation under the provisions of this section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

For systems using digital modulation techniques, the EUT may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

### 5.4.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

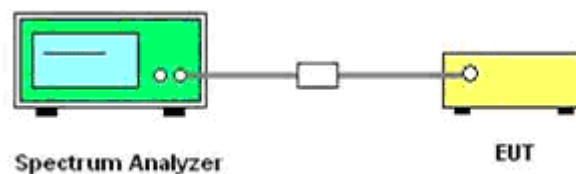
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
RBW	1% to 3% of the band
VBW	3 times the RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

## 5

### 5.4.3. Test Procedures

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal bandwidth measurement function is utilized.

### 5.4.4. Test Setup Layout



### 5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.4.6 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Last Cal.
1	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2012-06-18	2013-06-17
2	Signal analyzer	R&S	FSIQ26	102986	2012-06-18	2013-06-17
3	DC Filter	MPE	23872C	N/A	2012-06-18	2013-06-17

#### 5.4.7. Test Result of 99% Occupied Bandwidth.

Temperature	25°C	Humidity	60%
Test Engineer	Leo Lee	Configurations	BLE V4.0, 802.11b,g,n

##### BLE V4.0

Channel	Frequency	99% OBW (MHz)
1	2402	1.026
20	2440	1.026
40	2480	1.026

##### 802.11b

Channel	Frequency	99% OBW (MHz)
1	2412	11.75
6	2437	11.80
11	2462	11.80

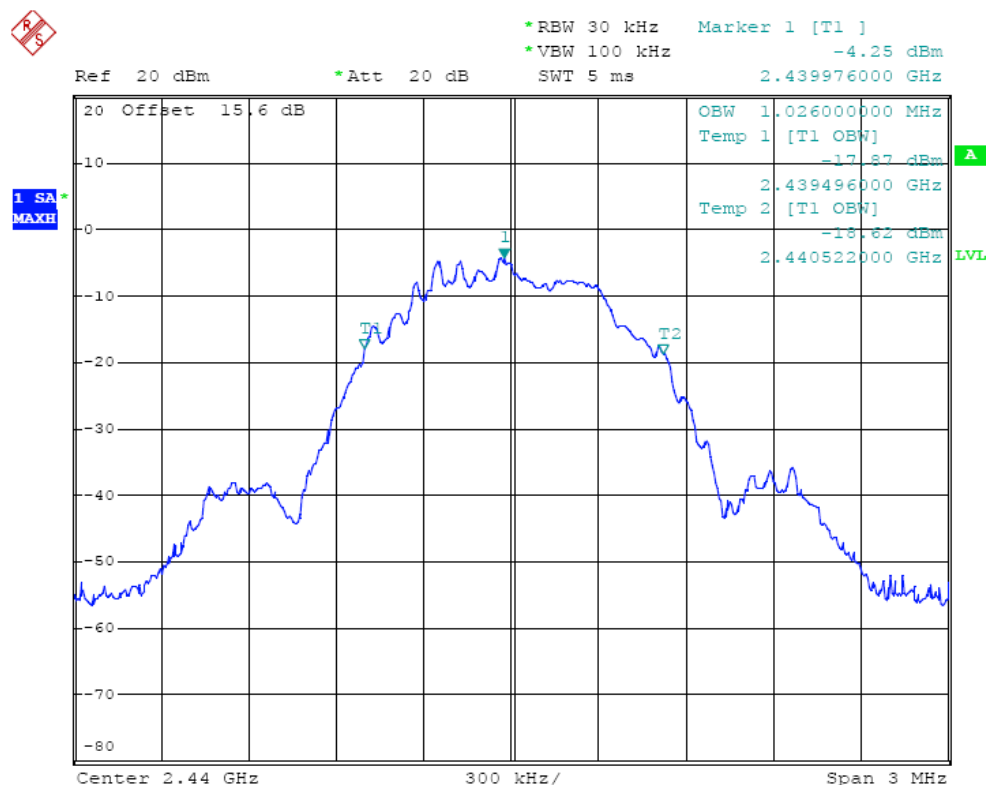
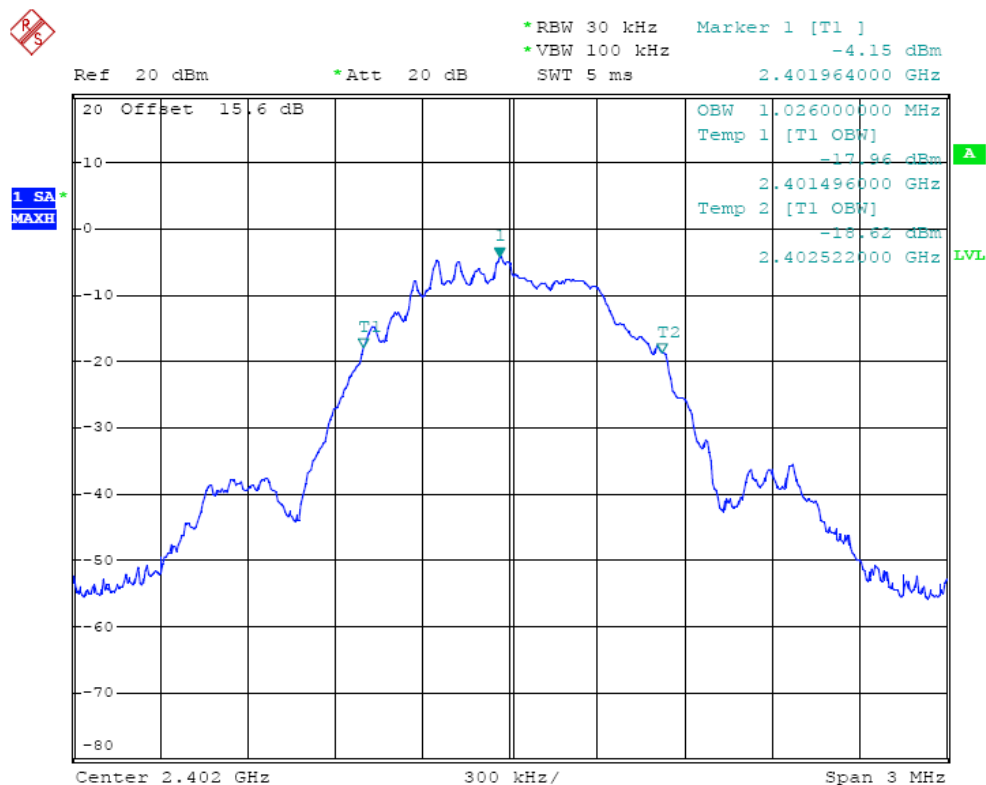
##### 802.11g

Channel	Frequency	99% OBW (MHz)
1	2412	17.65
6	2437	17.80
11	2462	17.70

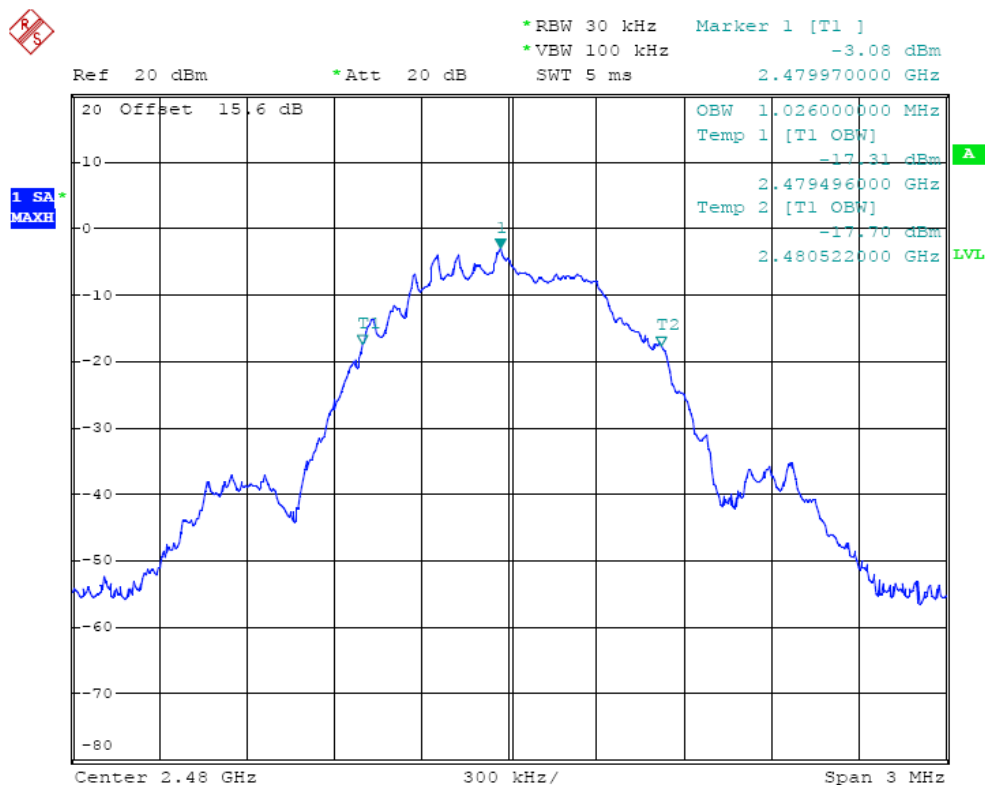
##### 802.11n HT20

Channel	Frequency	99% OBW (MHz)
1	2412	18.35
6	2437	18.35
11	2462	18.35

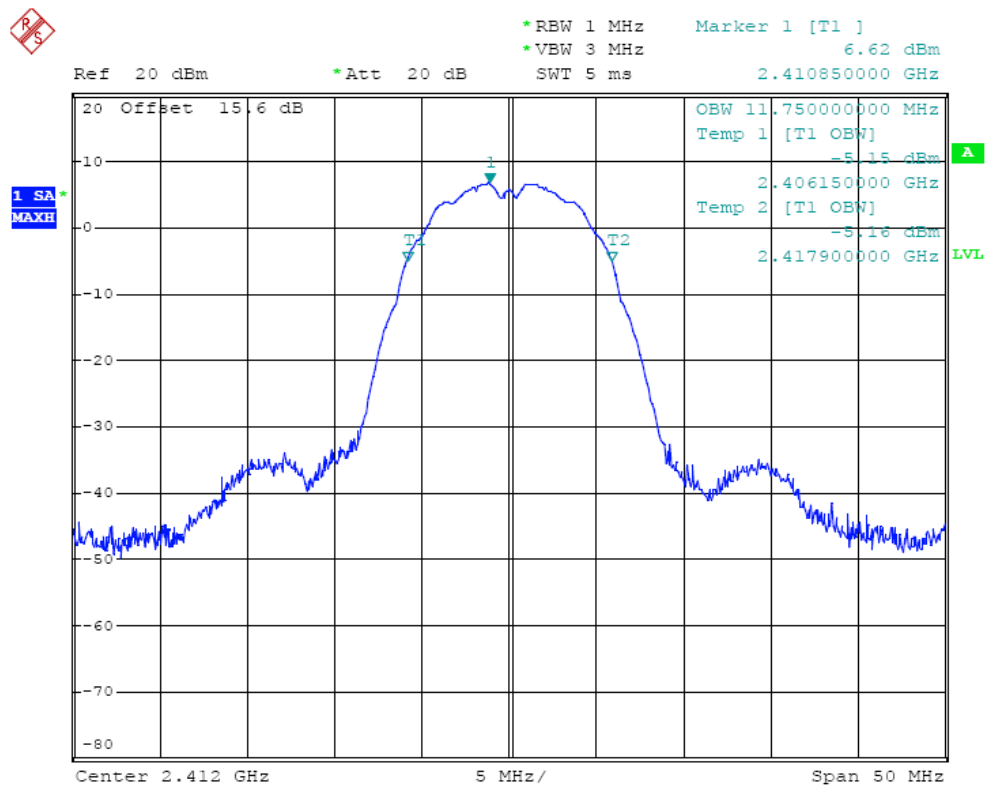
BLE V4.0 channel, 99% Occupied Bandwidth.

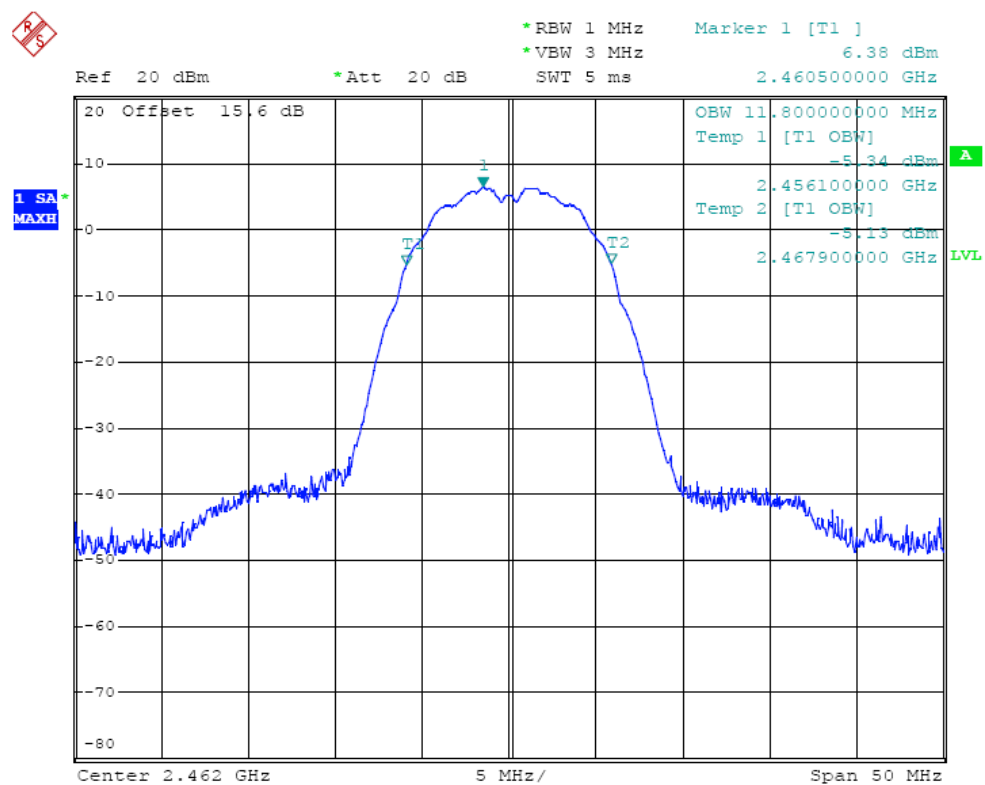
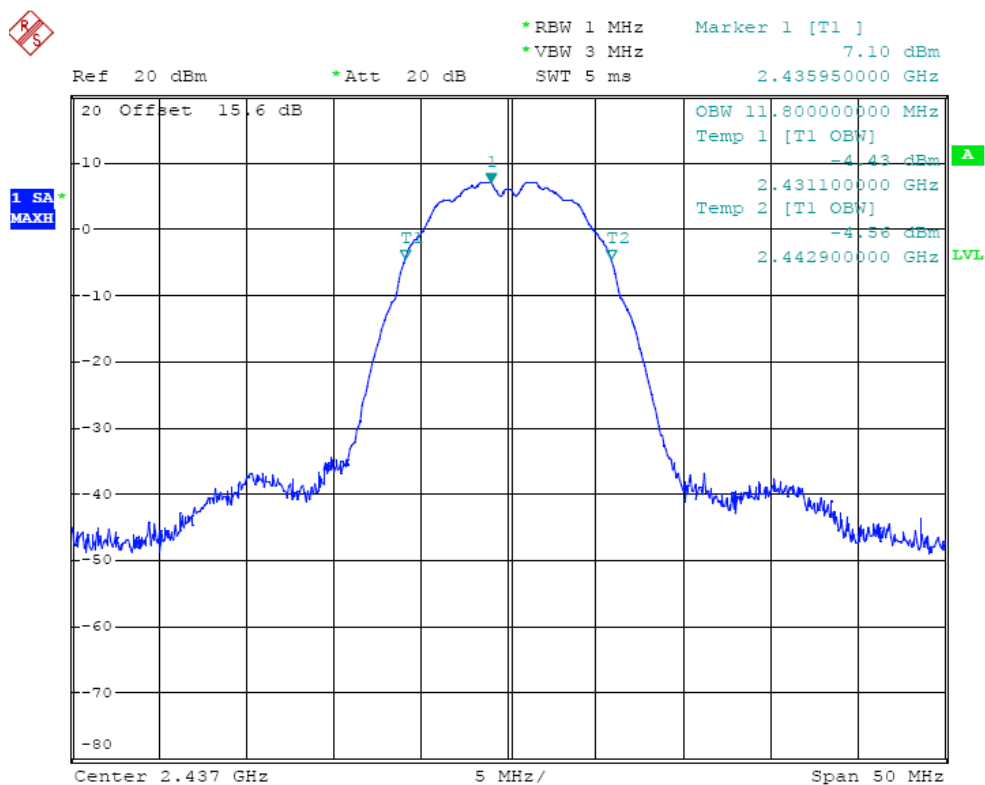




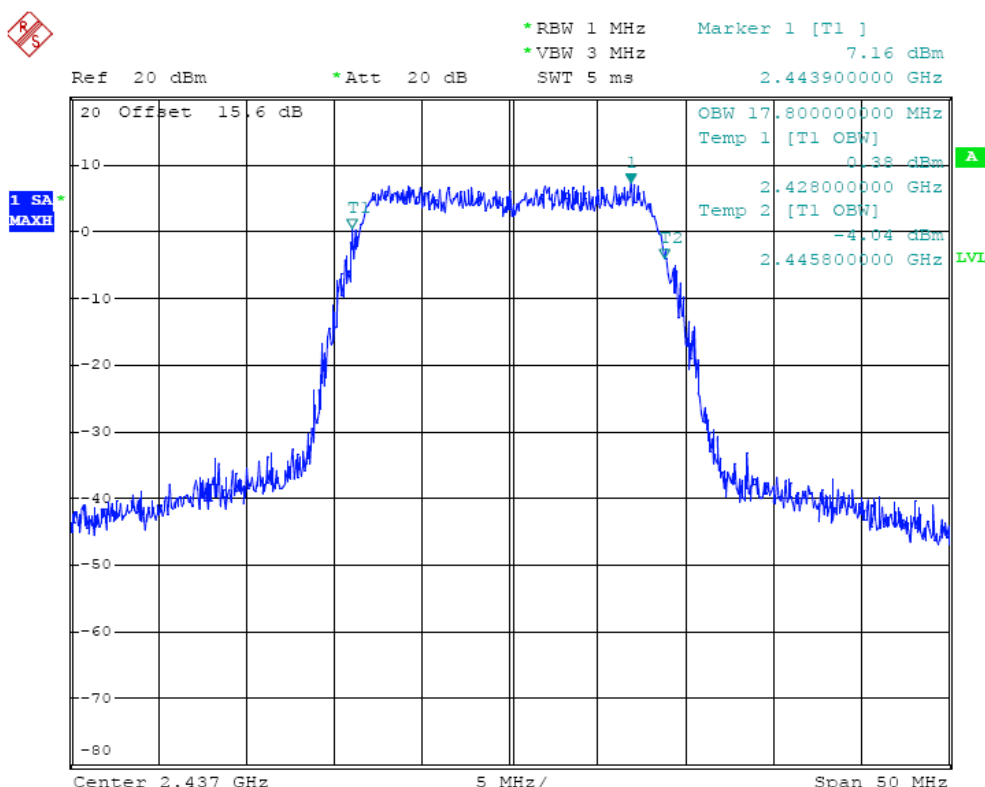
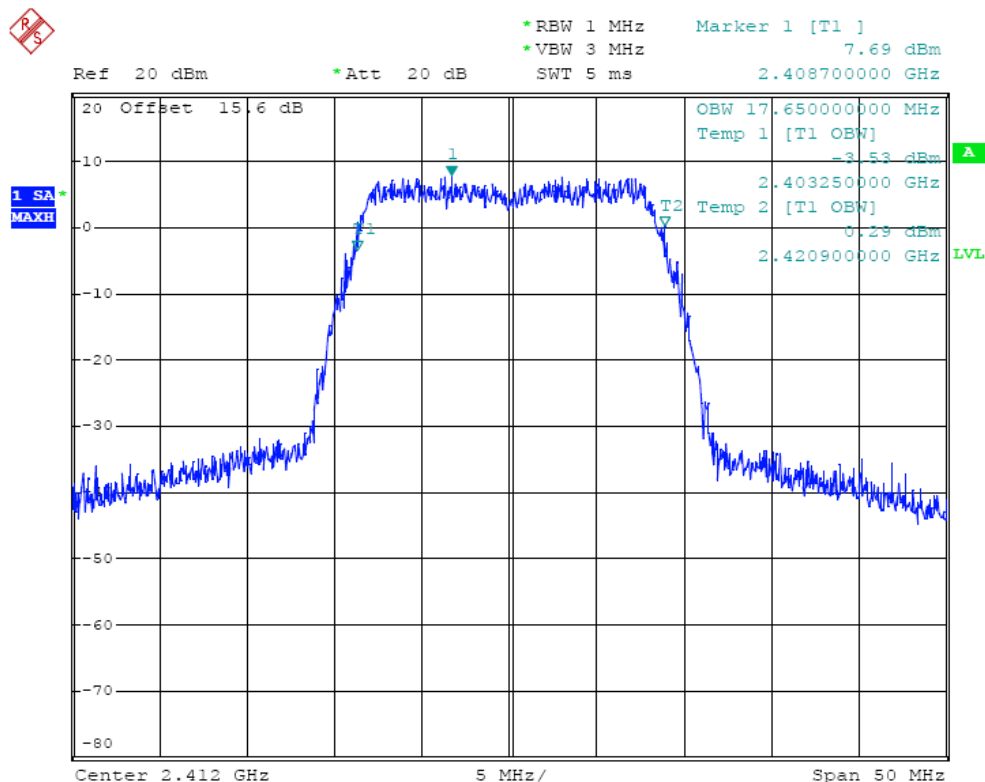


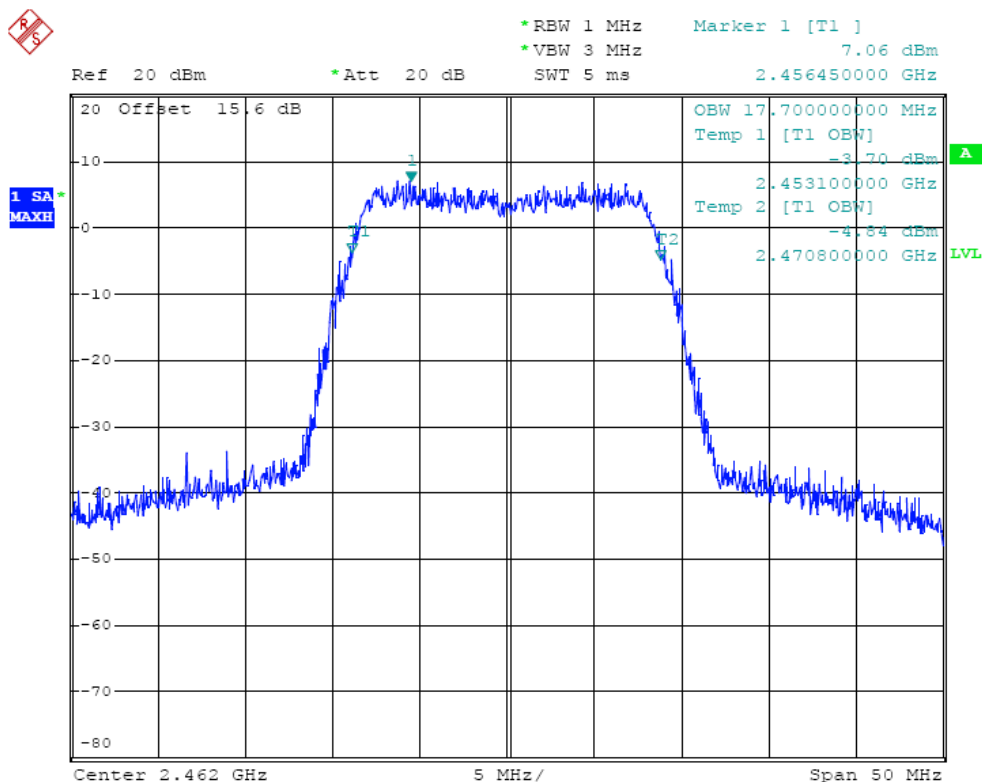
802.11b channel, 99% Occupied Bandwidth.



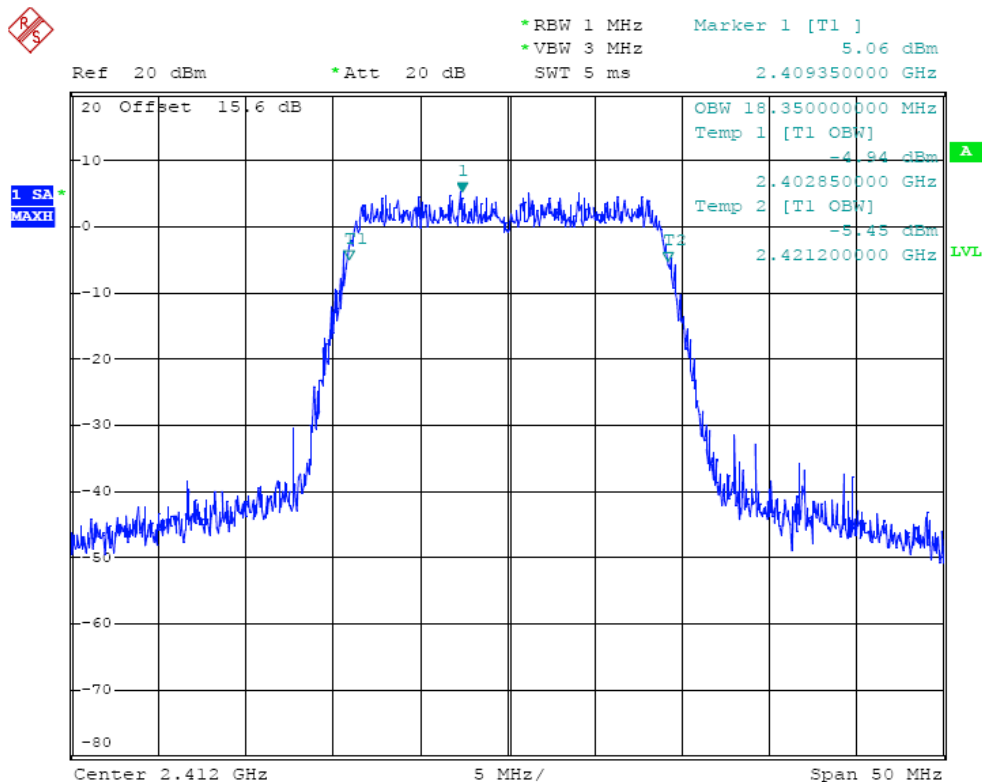


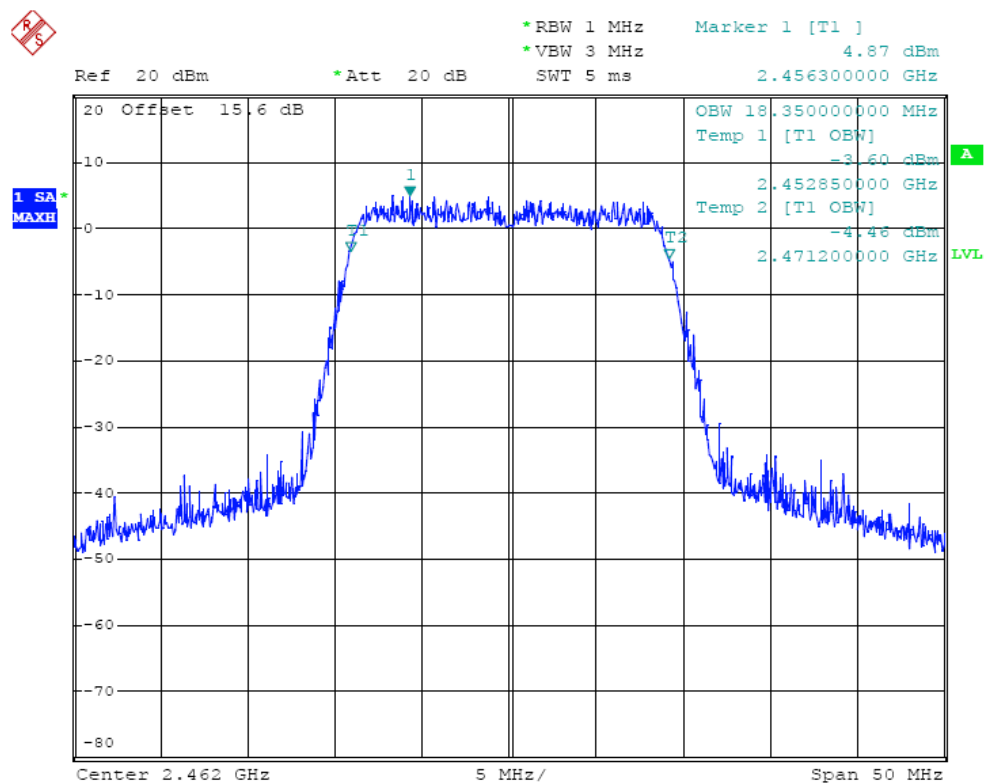
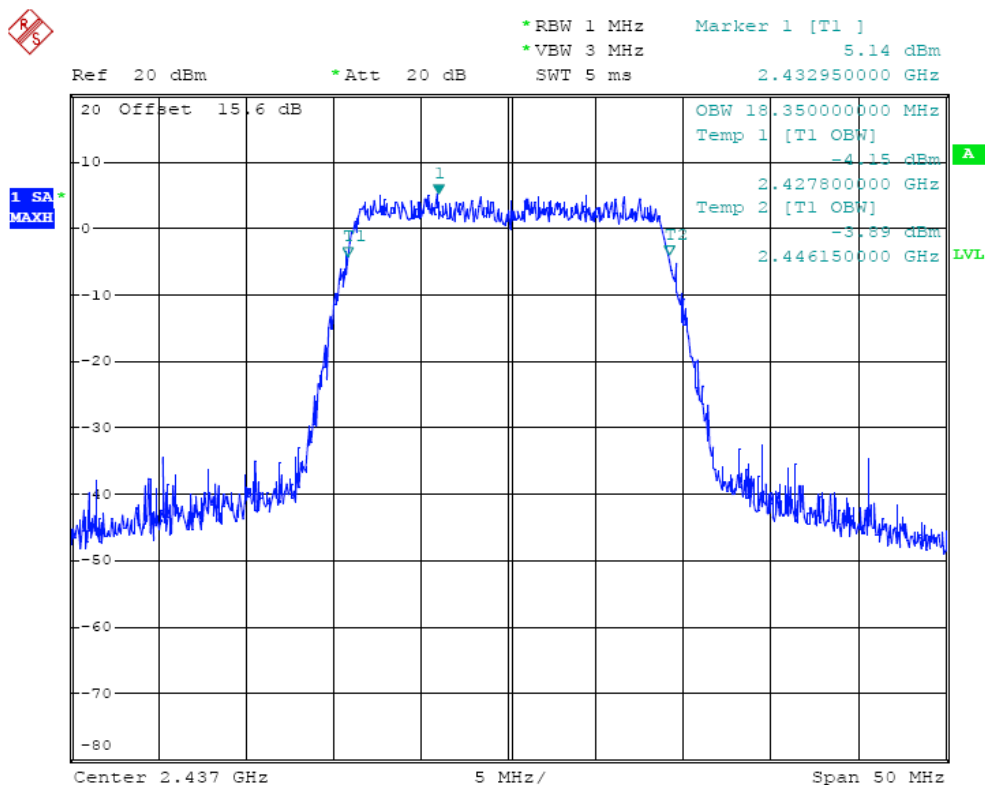
802.11g channel, 99% Occupied Bandwidth.





802.11n HT20 channel, 99% Occupied Bandwidth.





## 5.5. Radiated Emissions Measurement

### 5.5.1. Standard Applicable

According to §15.247 (d) & A8.5: 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies(MHz)	Field Strength(microvolts/meter)	Measurement Distance(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 5.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

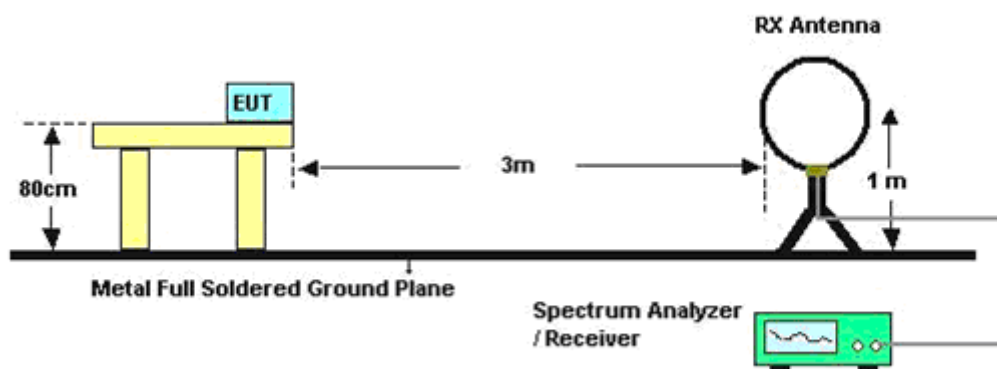
### 5.5.3. Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.

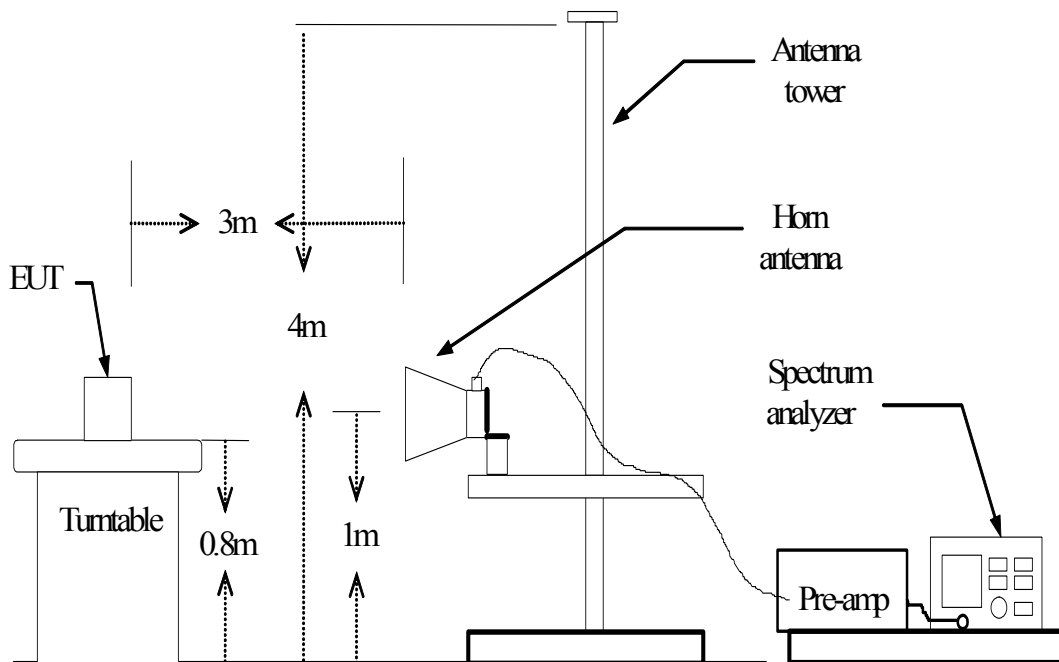
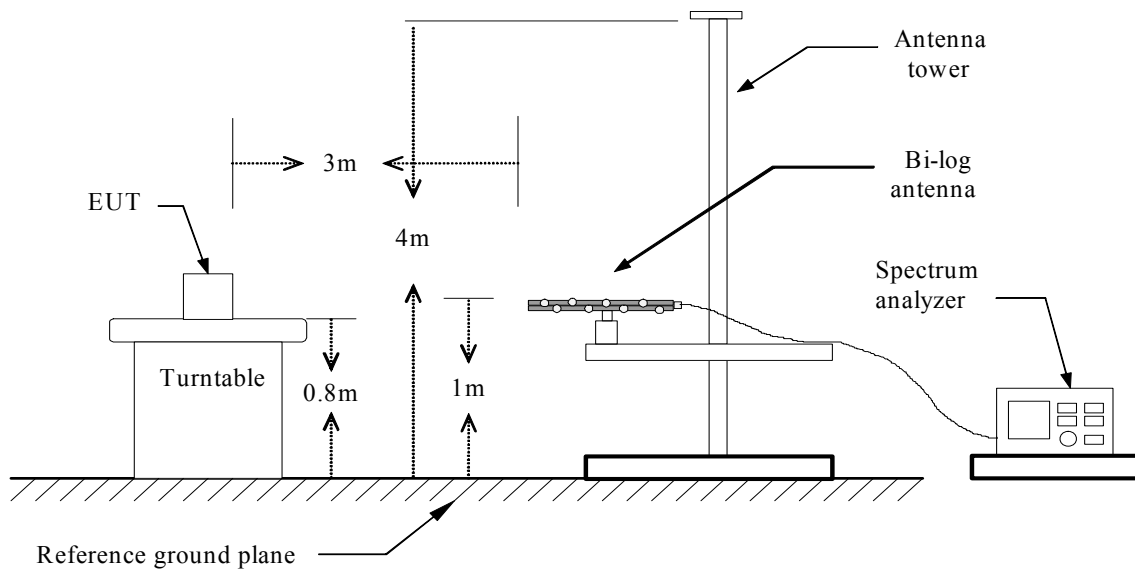
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

#### 5.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

#### 5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



### 5.5.6 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	3m Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2012-06-18	2013-06-17
2	Amplifier	SCHAFFNER	COA9231A	18667	2012-06-18	2013-06-17
3	Amplifier	Agilent	8449B	3008A02120	2012-06-18	2013-06-17
4	Amplifier	MITEQ	AMF-6F-260400	9121372	2012-06-18	2013-06-17
5	Spectrum Analyzer	Agilent	E4446A	MY41440289	2012-06-18	2013-06-17
6	Spectrum Analyzer	Agilent	E4407B	MY41440292	2012-06-18	2013-06-17
7	Loop Antenna	R&S	HFH2-Z2	860004/001	2012-06-18	2013-06-17
8	By-log Antenna	SCHAFFNER	CBL 6112D	22237	2012-06-18	2013-06-17
9	Horn Antenna	EMCO	3115	6741	2012-06-18	2013-06-17
10	Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	2012-06-18	2013-06-17
11	RF Cable-R03m	Jye Bao	RG142	CB021	2012-06-18	2013-06-17
12	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2012-06-18	2013-06-17

### 5.5.6. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25℃	Humidity	60%
Test Engineer	Leo Lee	Configurations	BLE V4.0, 802.11b,g,n

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

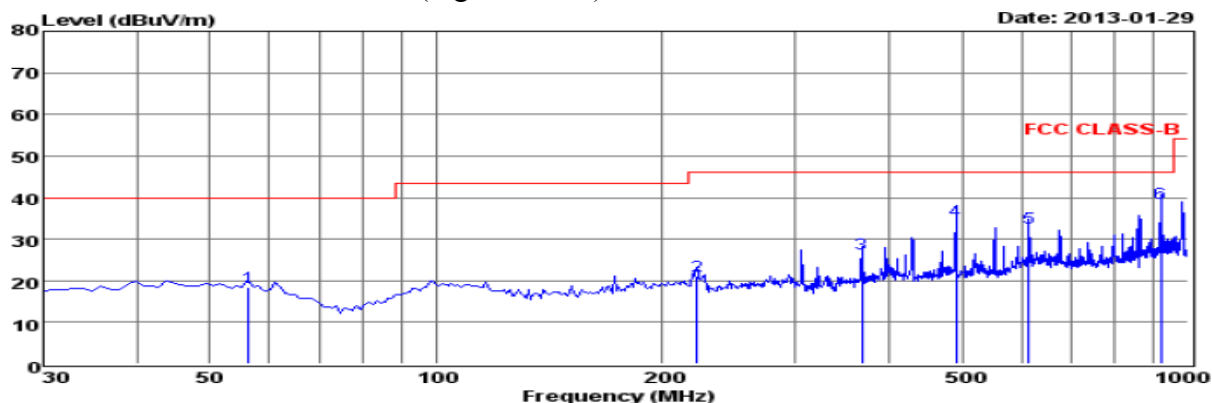
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

### 5.5.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25℃	Humidity	60%
Test Engineer	Leo Lee	Configurations	BLE V4.0, High channel, 802.11b, High channel

## Test result for BLE V4.0(high channel)



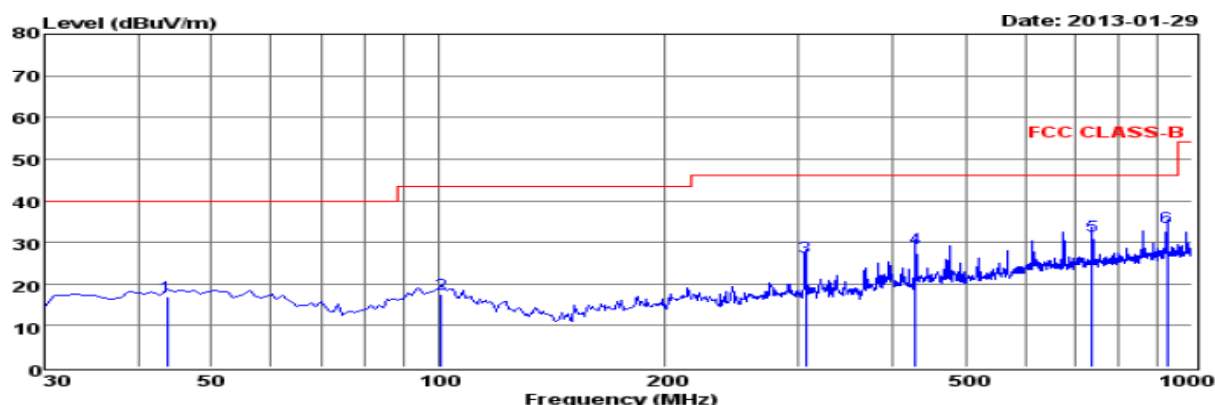
Env. / Ins: 24°C/56%  
 EUT: Tablet PC  
 M/N: MM7010T  
 Power Rating: AC 120V/60Hz  
 Test Mode: Tx-2480 (BLE V4.0)  
 Operator: Leo  
 Memo:  
 pol: VERTICAL

Freq.	Reading	CabLos	AntFac	PreFac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1 56.19	4.89	0.47	12.94	0.00	18.30	40.00	-21.70	QP
2 222.06	8.92	0.95	11.29	0.00	21.16	46.00	-24.84	QP
3 368.53	10.61	1.22	14.50	0.00	26.33	46.00	-19.67	QP
4 490.75	16.81	1.32	16.34	0.00	34.47	46.00	-11.53	QP
5 614.91	12.72	1.48	18.50	0.00	32.70	46.00	-13.30	QP
6 921.43	15.62	1.90	21.23	0.00	38.75	46.00	-7.25	QP

Note: 1. All readings are Quasi-peak values.

2. Measured = Reading + Antenna Factor + Cable Loss - Amp Factor.

3. The emission levels that are 20dB below the official limit are not reported.



Env. / Ins: 24°C/56%  
 EUT: Tablet PC  
 M/N: MM7010T  
 Power Rating: AC 120V/60Hz  
 Test Mode: Tx-2480 (BLE V4.0)  
 Operator: Leo  
 Memo:  
 pol: HORIZONTAL

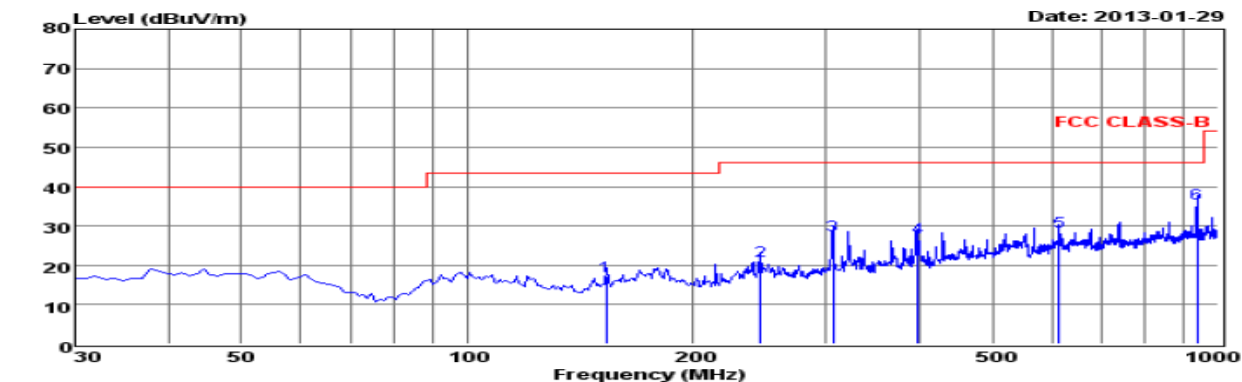
Freq.	Reading	CabLos	AntFac	PreFac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1 43.58	2.88	0.41	13.56	0.00	16.85	40.00	-23.15	QP
2 100.81	3.83	0.60	13.09	0.00	17.52	43.50	-25.98	QP
3 307.42	12.18	1.05	13.16	0.00	26.39	46.00	-19.61	QP
4 429.64	11.86	1.28	15.51	0.00	28.65	46.00	-17.35	QP
5 737.13	10.72	1.66	19.27	0.00	31.65	46.00	-14.35	QP
6 925.31	10.28	1.99	21.25	0.00	33.52	46.00	-12.48	QP

Note: 1. All readings are Quasi-peak values.

2. Measured = Reading + Antenna Factor + Cable Loss - Amp Factor.

3. The emission levels that are 20dB below the official limit are not reported.

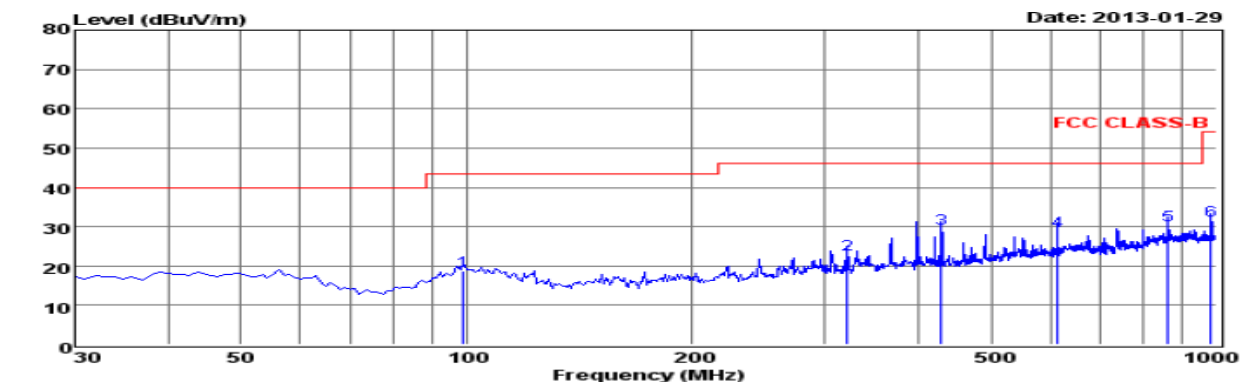
## Test result for 802.11b(high channel)



Env. / Ins: 24°C/56%  
 EUT: Tablet PC  
 M/N: MM7010T  
 Power Rating: AC 120V/60Hz  
 Test Mode: Tx-2462 (802.11b)  
 Operator: Leo  
 Memo:  
 pol: HORIZONTAL

	Freq.	Reading	CabLos	AntFac	PreFac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1	153.19	8.26	0.73	8.39	0.00	17.38	43.50	-26.12	QP
2	245.34	8.13	0.97	12.08	0.00	21.18	46.00	-24.82	QP
3	307.42	13.45	1.05	13.16	0.00	27.66	46.00	-18.34	QP
4	398.60	10.82	1.22	15.03	0.00	27.07	46.00	-18.93	QP
5	613.94	8.44	1.48	18.50	0.00	28.42	46.00	-17.58	QP
6	937.92	12.54	1.92	21.34	0.00	35.80	46.00	-10.20	QP

Note: 1. All readings are Quasi-peak values.  
 2. Measured = Reading + Antenna Factor + Cable Loss - Amp Factor.  
 3. The emission levels that are 20dB below the official limit are not reported.



Env. / Ins: 24°C/56%  
 EUT: Tablet PC  
 M/N: MM7010T  
 Power Rating: AC 120V/60Hz  
 Test Mode: Tx-2462 (802.11b)  
 Operator: Leo  
 Memo:  
 pol: VERTICAL

	Freq.	Reading	CabLos	AntFac	PreFac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1	98.87	5.17	0.61	13.09	0.00	18.87	43.50	-24.63	QP
2	321.97	8.27	1.16	13.41	0.00	22.84	46.00	-23.16	QP
3	429.64	12.58	1.28	15.51	0.00	29.37	46.00	-16.63	QP
4	613.94	8.96	1.48	18.50	0.00	28.94	46.00	-17.06	QP
5	860.32	7.81	1.84	20.68	0.00	30.33	46.00	-15.67	QP
6	983.51	7.93	1.86	21.63	0.00	31.42	54.00	-22.58	QP

Note: 1. All readings are Quasi-peak values.  
 2. Measured = Reading + Antenna Factor + Cable Loss - Amp Factor.  
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

Pre-scan all mode and recorded the worst case results in this report (BLE V4.0 Channel 40 & 802.11b Channel 11).

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

## 5.5.8. Results for Radiated Emissions (Above 1GHz)

BLE V4.0

Channel 1

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol.
4804.19	44.79	33.06	35.04	3.94	74	-27.25	Peak	Horizontal
4804.21	35.51	33.06	35.04	3.94	54	-16.53	Average	Horizontal
4804.15	45.31	33.06	35.04	3.94	74	-26.73	Peak	Vertical
4804.21	35.33	33.06	35.04	3.94	54	-16.71	Average	Vertical

Channel 20

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4880.41	44.23	33.16	35.15	3.96	74	-27.8	Peak	Horizontal
4880.37	34.44	33.16	35.15	3.96	54	-17.59	Average	Horizontal
4880.35	44.11	33.16	35.15	3.96	74	-27.92	Peak	Vertical
4880.33	33.56	33.16	35.15	3.96	54	-18.47	Average	Vertical

Channel 40

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4960.36	44.71	33.26	35.14	3.98	74	-27.19	Peak	Horizontal
4960.29	34.37	33.26	35.14	3.98	54	-17.53	Average	Horizontal
4960.44	43.96	33.26	35.14	3.98	74	-27.94	Peak	Vertical
4960.31	33.34	33.26	35.14	3.98	54	-18.56	Average	Vertical

802.11b

Channel 1

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4824.11	47.41	33.06	35.04	3.94	74	-24.63	Peak	Horizontal
4824.27	36.69	33.06	35.04	3.94	54	-15.35	Average	Horizontal
4824.13	47.83	33.06	35.04	3.94	74	-24.21	Peak	Vertical
4824.24	37.33	33.06	35.04	3.94	54	-14.71	Average	Vertical

Channel 6

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4874.61	46.39	33.16	35.15	3.96	74	-25.64	Peak	Horizontal
4874.63	35.47	33.16	35.15	3.96	54	-16.56	Average	Horizontal
4874.63	45.53	33.16	35.15	3.96	74	-26.5	Peak	Vertical
4874.64	34.59	33.16	35.15	3.96	54	-17.44	Average	Vertical

Channel 11

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4924.41	44.33	33.26	35.14	3.98	74	-27.57	Peak	Horizontal
4924.39	33.87	33.26	35.14	3.98	54	-18.03	Average	Horizontal
4924.39	43.11	33.26	35.14	3.98	74	-28.79	Peak	Vertical
4924.39	33.37	33.26	35.14	3.98	54	-18.53	Average	Vertical

802.11g

Channel 1

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4824.77	46.96	33.06	35.04	3.94	74	-25.08	Peak	Horizontal
4824.91	35.11	33.06	35.04	3.94	54	-16.93	Average	Horizontal
4824.76	47.01	33.06	35.04	3.94	74	-25.03	Peak	Vertical
4824.93	34.47	33.06	35.04	3.94	54	-17.57	Average	Vertical

Channel 6

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4874.41	46.56	33.16	35.15	3.96	74	-25.47	Peak	Horizontal
4874.38	36.37	33.16	35.15	3.96	54	-15.66	Average	Horizontal
4874.39	45.89	33.16	35.15	3.96	74	-26.14	Peak	Vertical
4874.37	37.44	33.16	35.15	3.96	54	-14.59	Average	Vertical

Channel 11

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4924.81	47.35	33.26	35.14	3.98	74	-24.55	Peak	Horizontal
4924.83	37.84	33.26	35.14	3.98	54	-14.06	Average	Horizontal
4924.83	46.77	33.26	35.14	3.98	74	-25.13	Peak	Vertical
4924.83	39.62	33.26	35.14	3.98	54	-12.28	Average	Vertical

## 802.11n HT20

## Channel 1

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4824.77	45.37	33.06	35.04	3.94	74	-26.67	Peak	Horizontal
4824.93	35.71	33.06	35.04	3.94	54	-16.33	Average	Horizontal
4824.79	44.96	33.06	35.04	3.94	74	-27.08	Peak	Vertical
4824.94	35.44	33.06	35.04	3.94	54	-16.6	Average	Vertical

## Channel 6

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4874.41	46.33	33.16	35.15	3.96	74	-25.7	Peak	Horizontal
4874.40	36.19	33.16	35.15	3.96	54	-15.84	Average	Horizontal
4874.42	45.41	33.16	35.15	3.96	74	-26.62	Peak	Vertical
4874.41	35.93	33.16	35.15	3.96	54	-16.1	Average	Vertical

## Channel 11

Freq MHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4924.69	47.44	33.26	35.14	3.98	74	-24.46	Peak	Horizontal
4924.71	37.82	33.26	35.14	3.98	54	-14.08	Average	Horizontal
4924.68	46.77	33.26	35.14	3.98	74	-25.13	Peak	Vertical
4924.67	38.53	33.26	35.14	3.98	54	-13.37	Average	Vertical

**Notes:**

1. Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

## 5.6. Conducted Spurious Emissions and Band Edges Test

### 5.6.1. Standard Applicable

According to §15.247 (d) & A8.5: In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

### 5.6.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

### 5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

Preliminary tests on individual chains, and on all chains with a combiner, were performed. The worst-case configuration was with a combiner, therefore final test were performed with all chains feeding a combiner.

### 5.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

### 5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



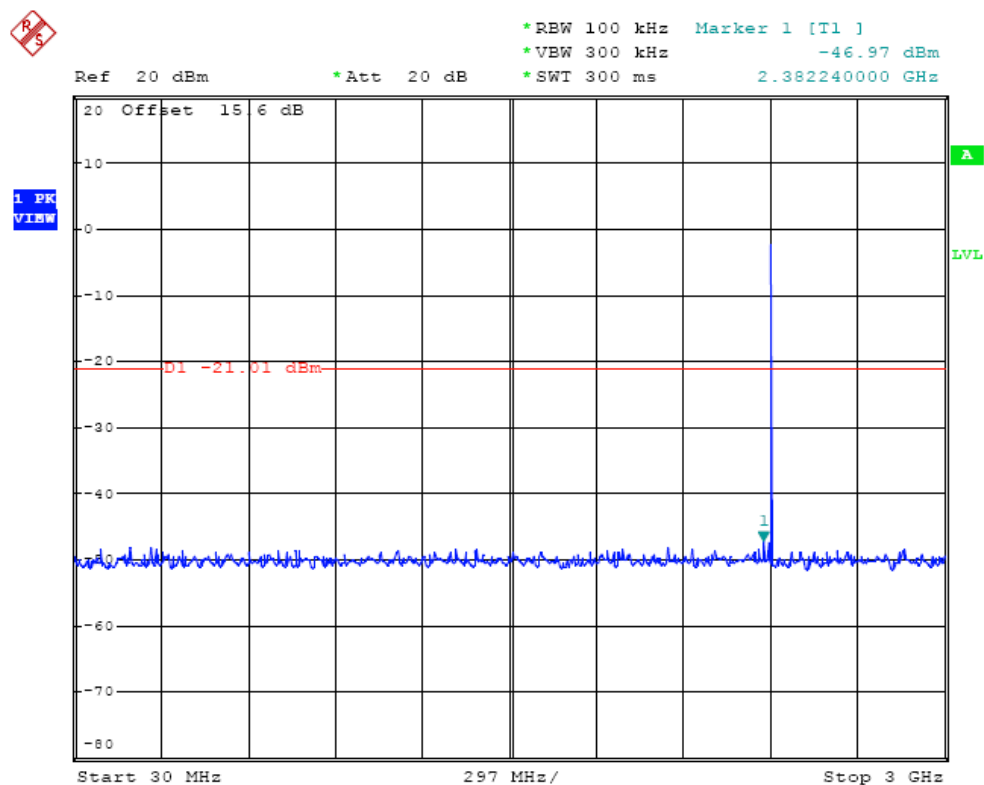
### 5.5.6 Test Equipment

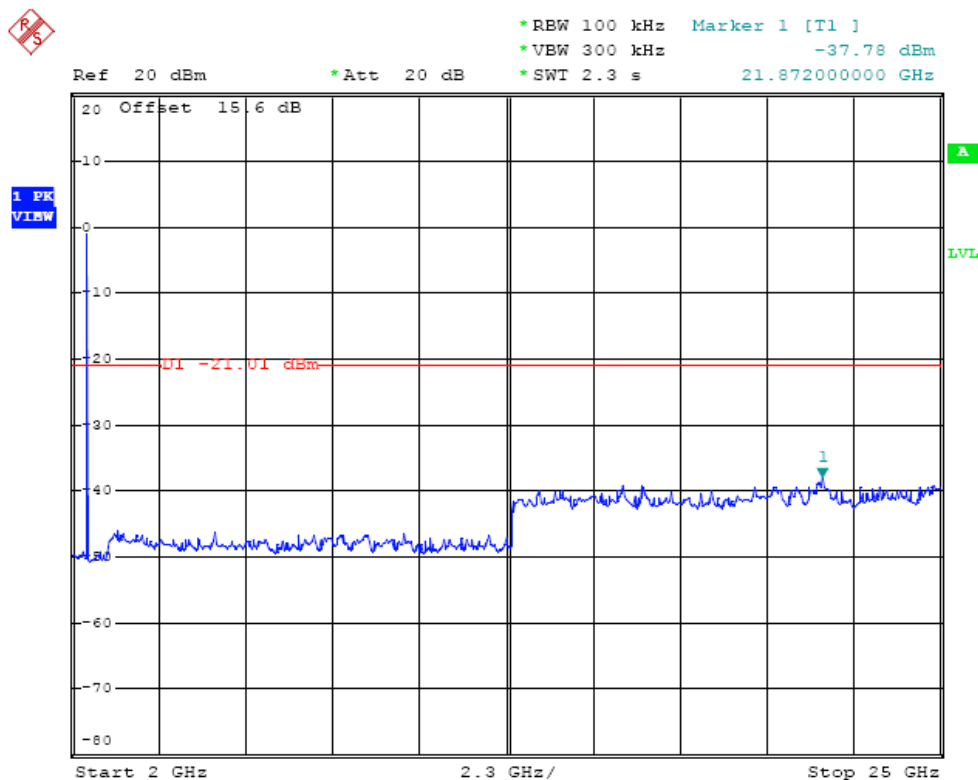
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Last Cal.
1	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2012-06-18	2013-06-17
2	Signal analyzer	R&S	FSIQ26	102986	2012-06-18	2013-06-17
3	DC Filter	MPE	23872C	N/A	2012-06-18	2013-06-17

### 5.6.. Test Results of Conducted Spurious Emissions

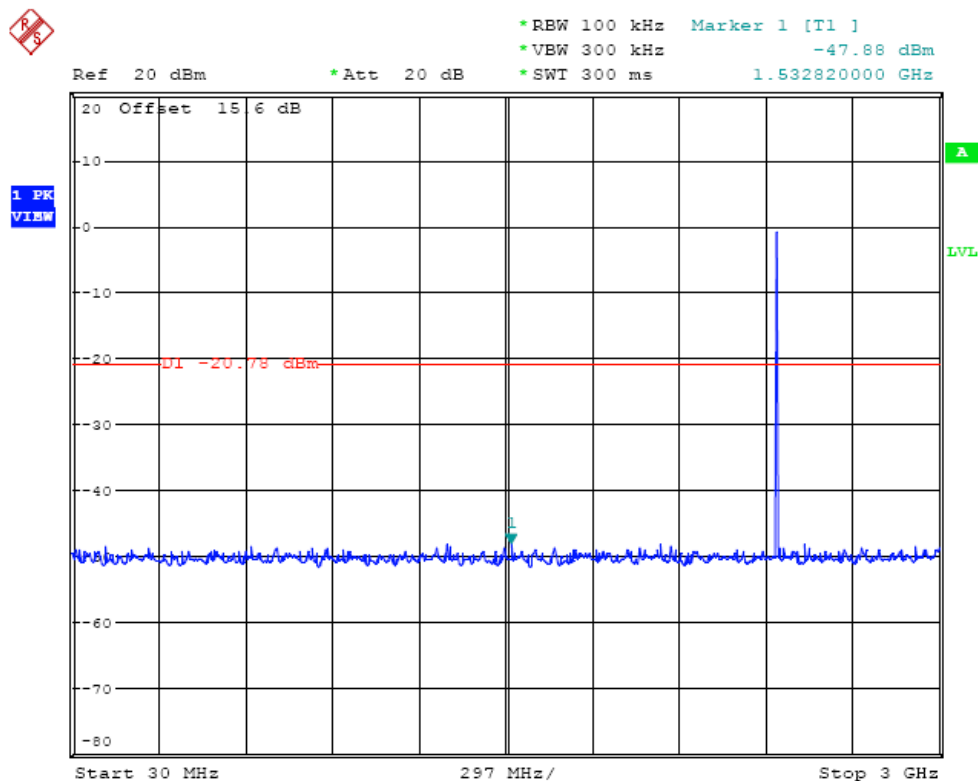
#### BLE V4.0

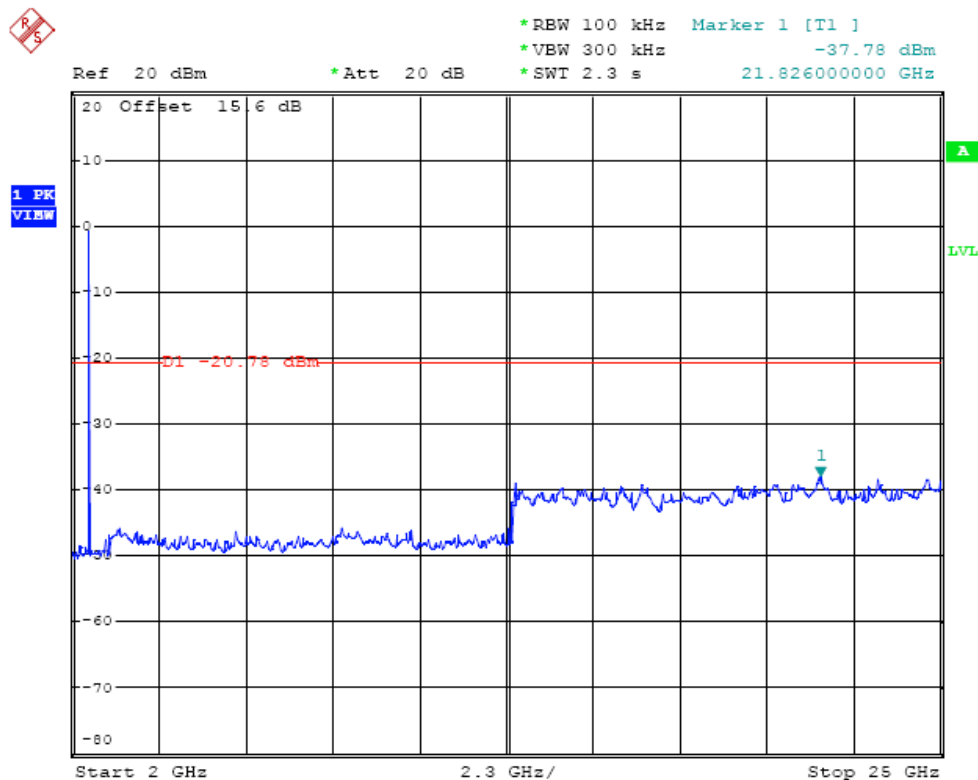
Test Result of Low Channel:



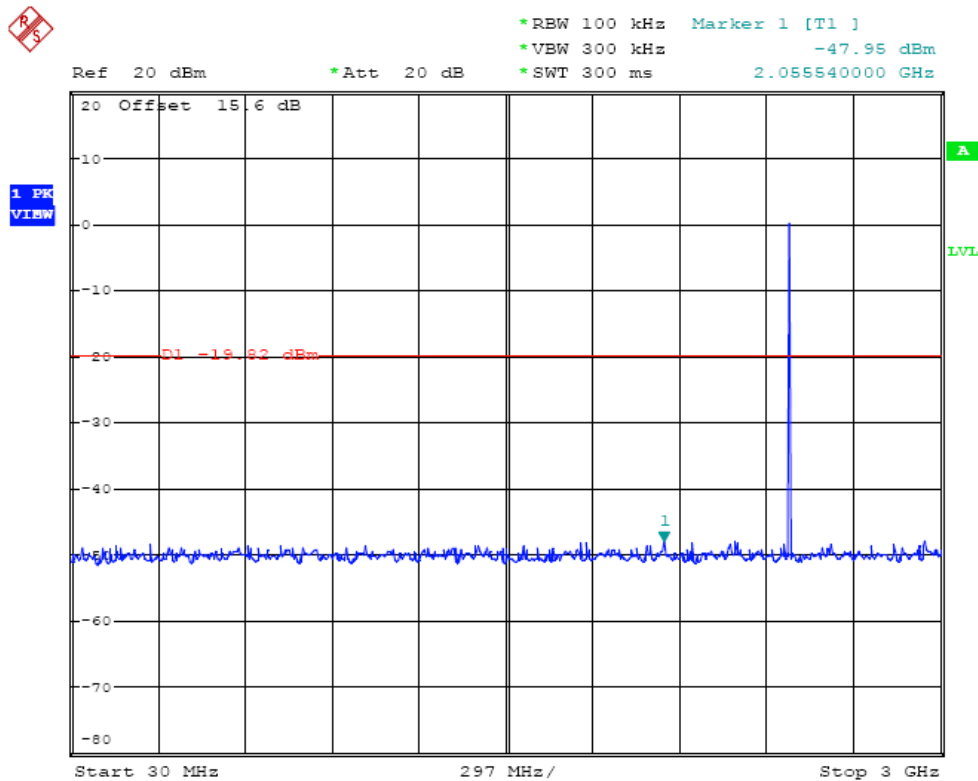


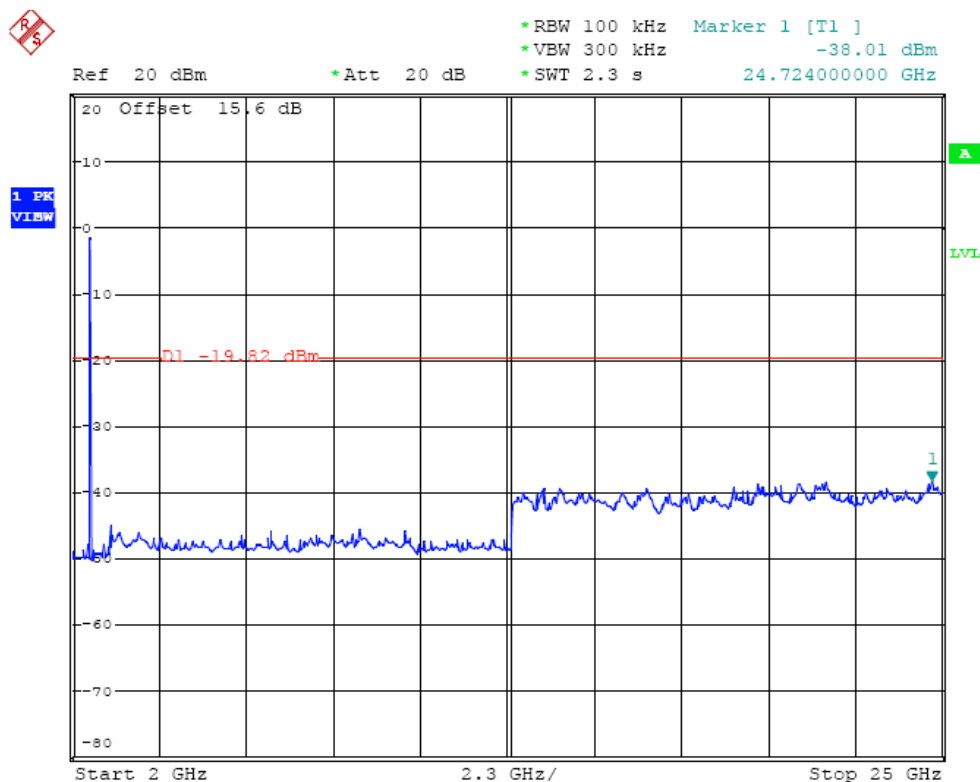
### Test Result of Middle Channel:



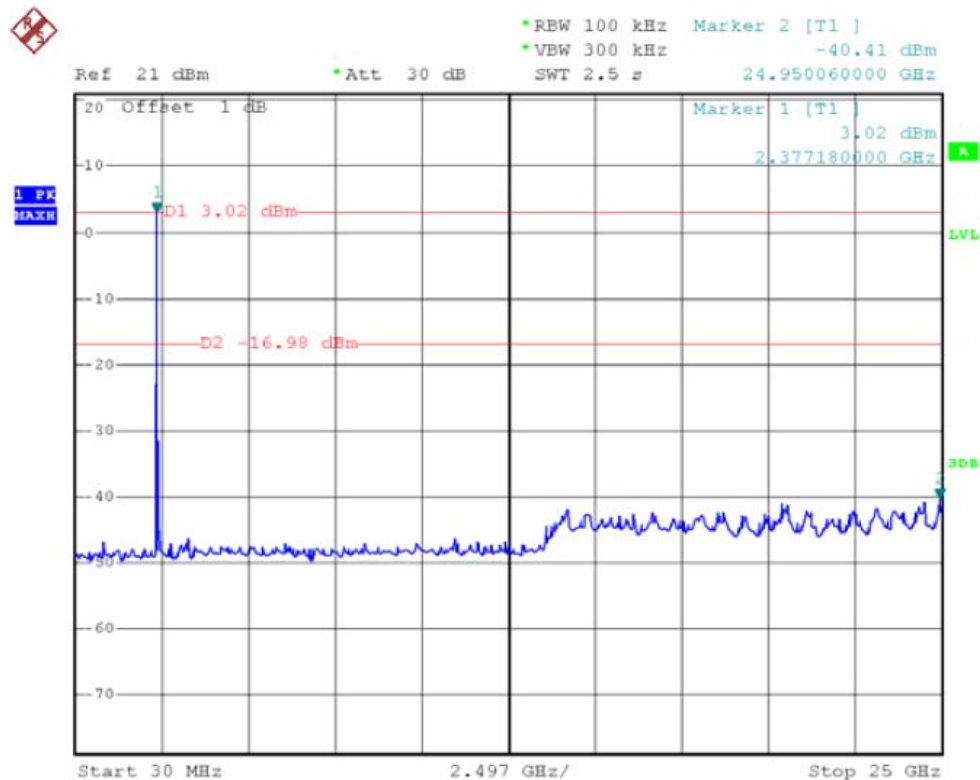


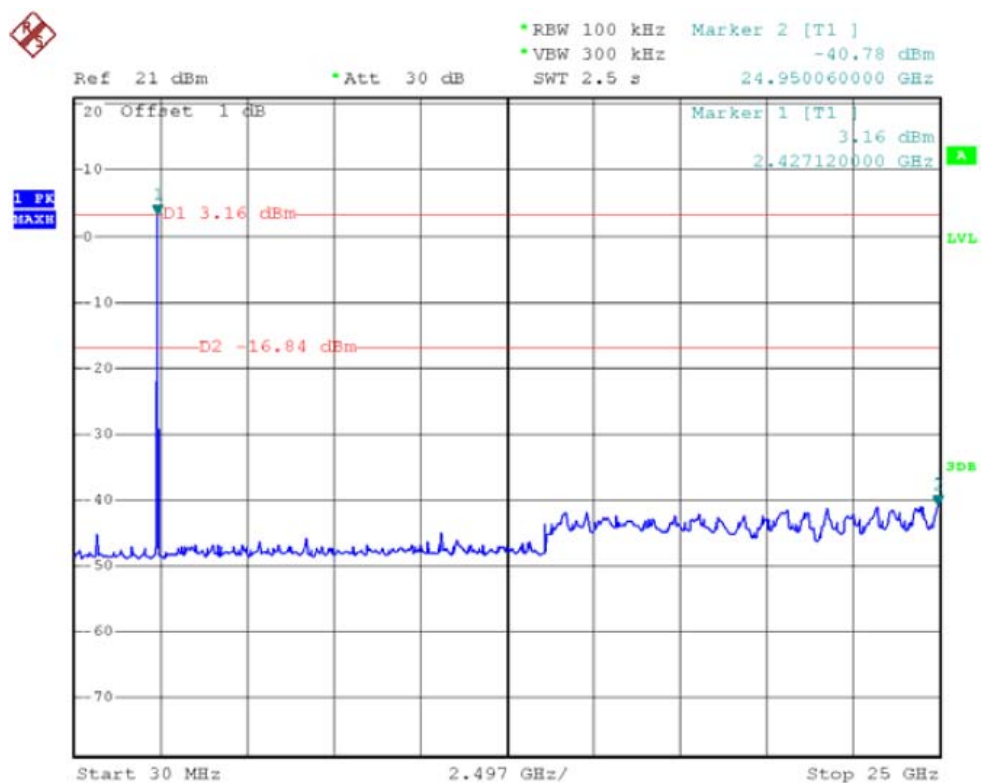
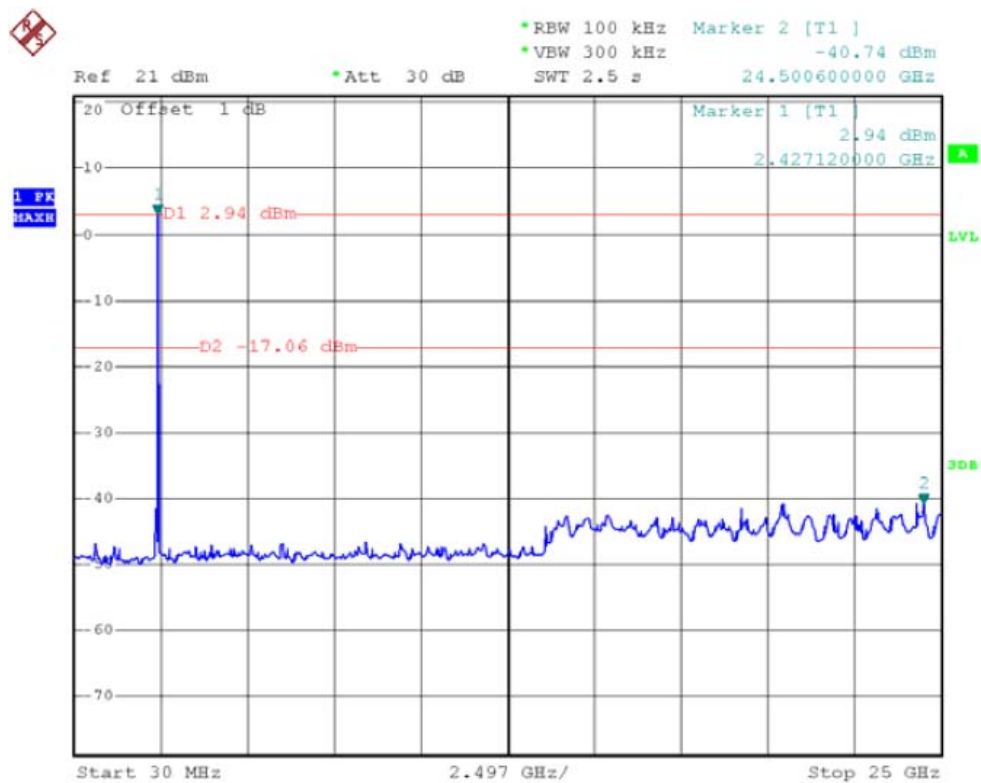
Test Result of High Channel:



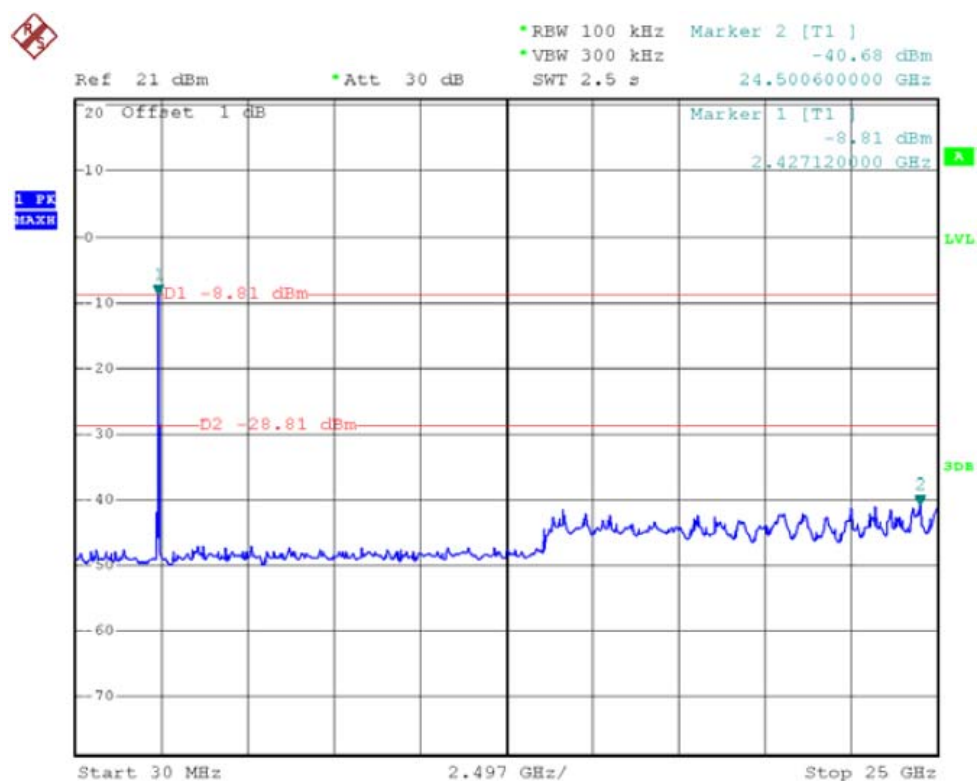
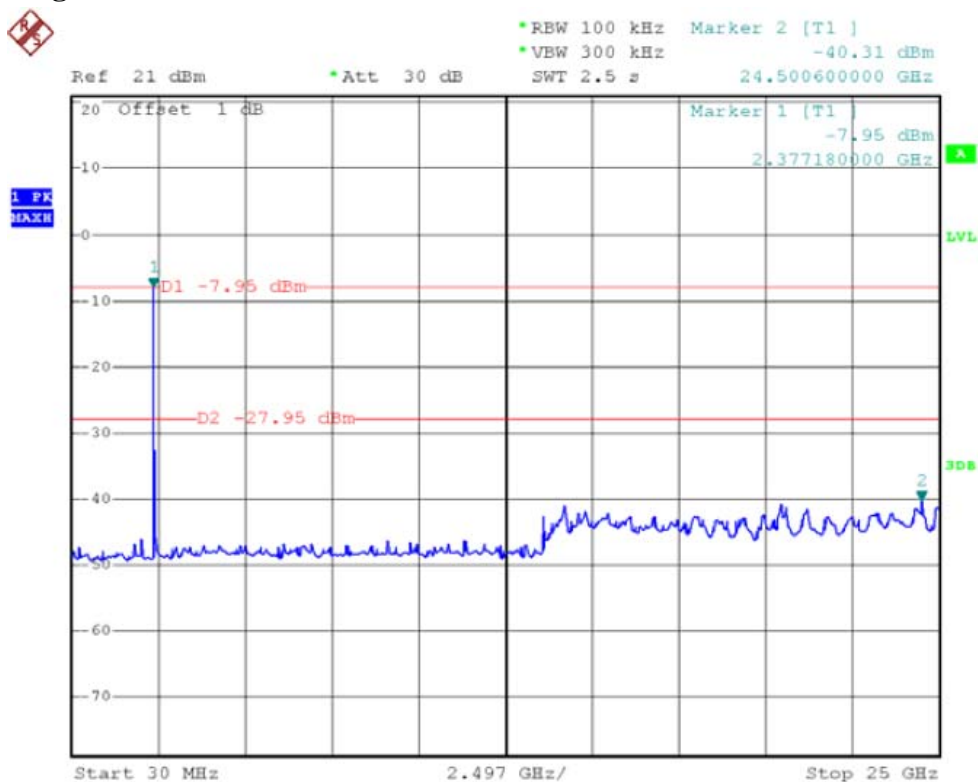


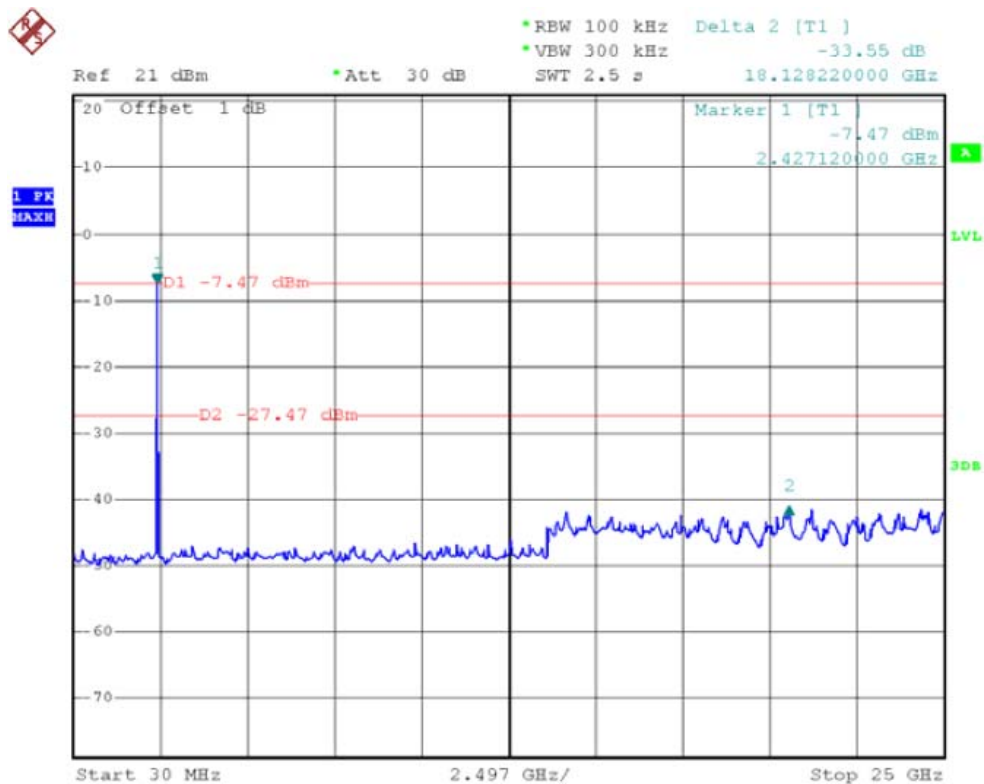
### 802.11b



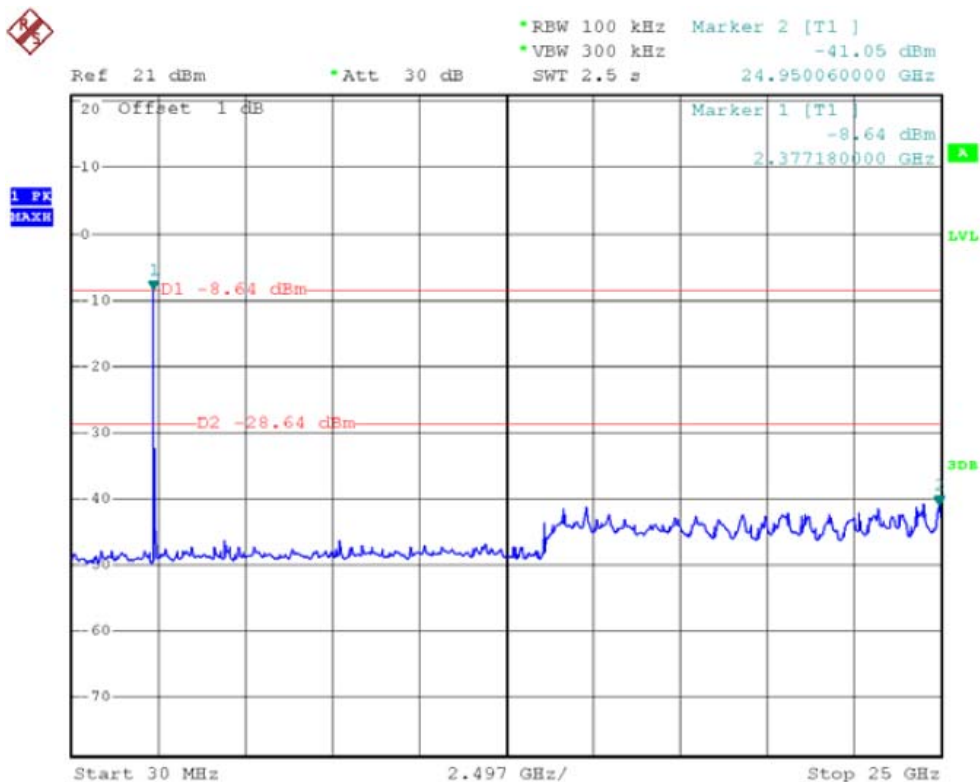


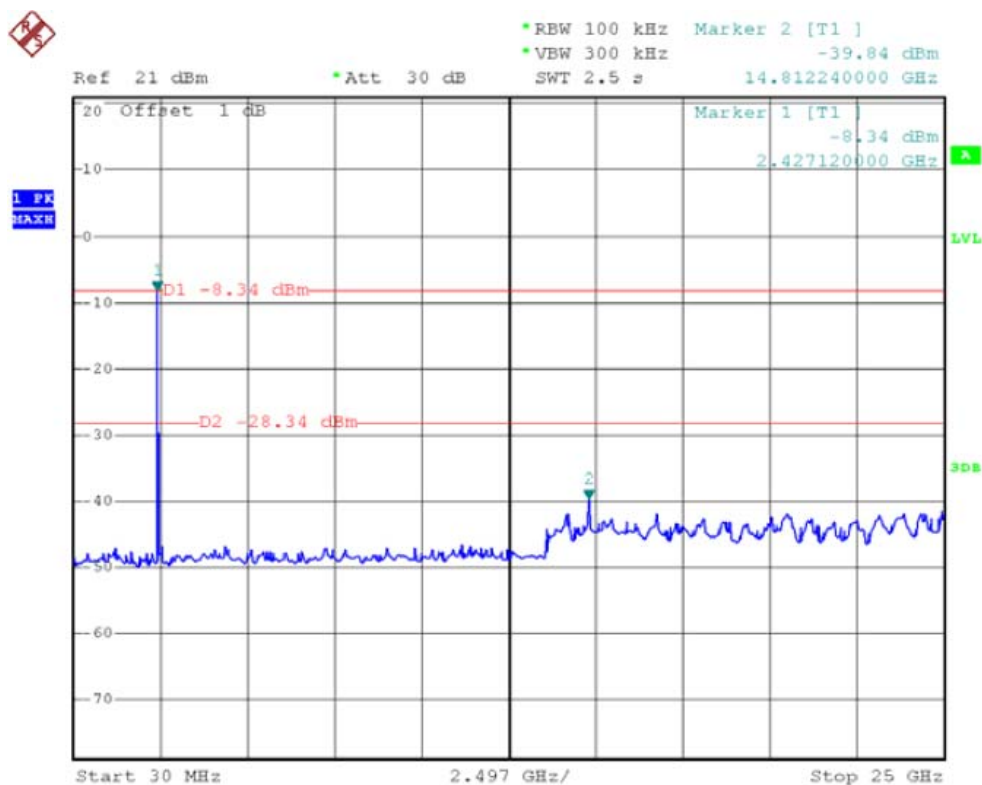
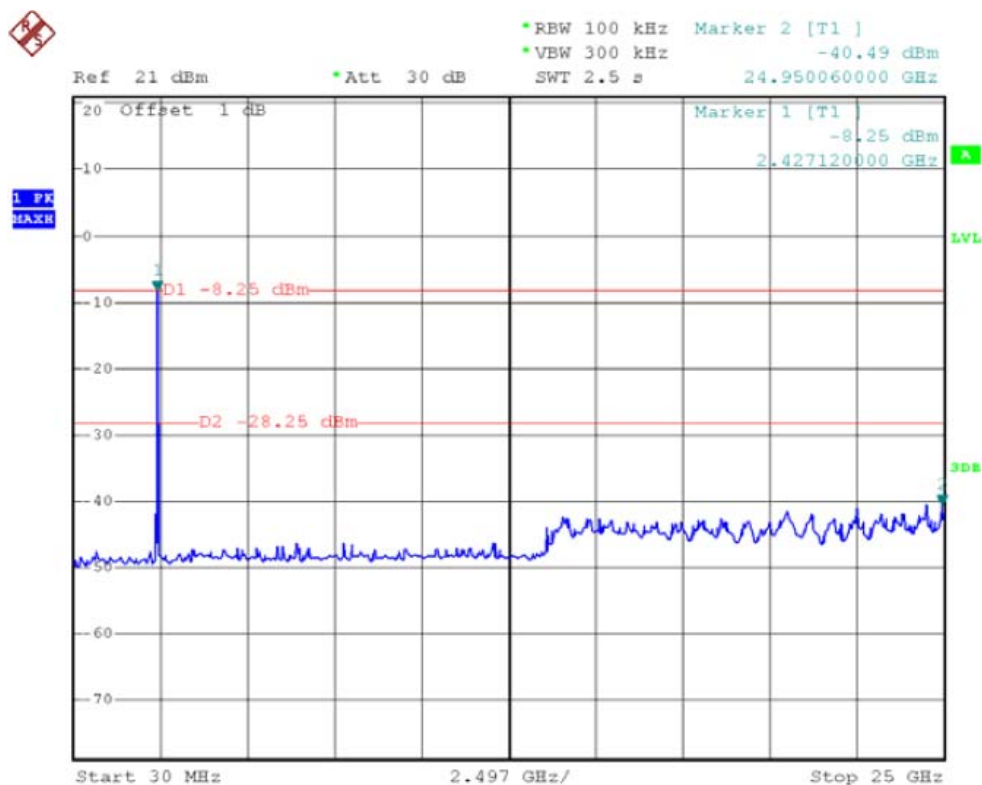
# 802.11g





### 802.11n HT20

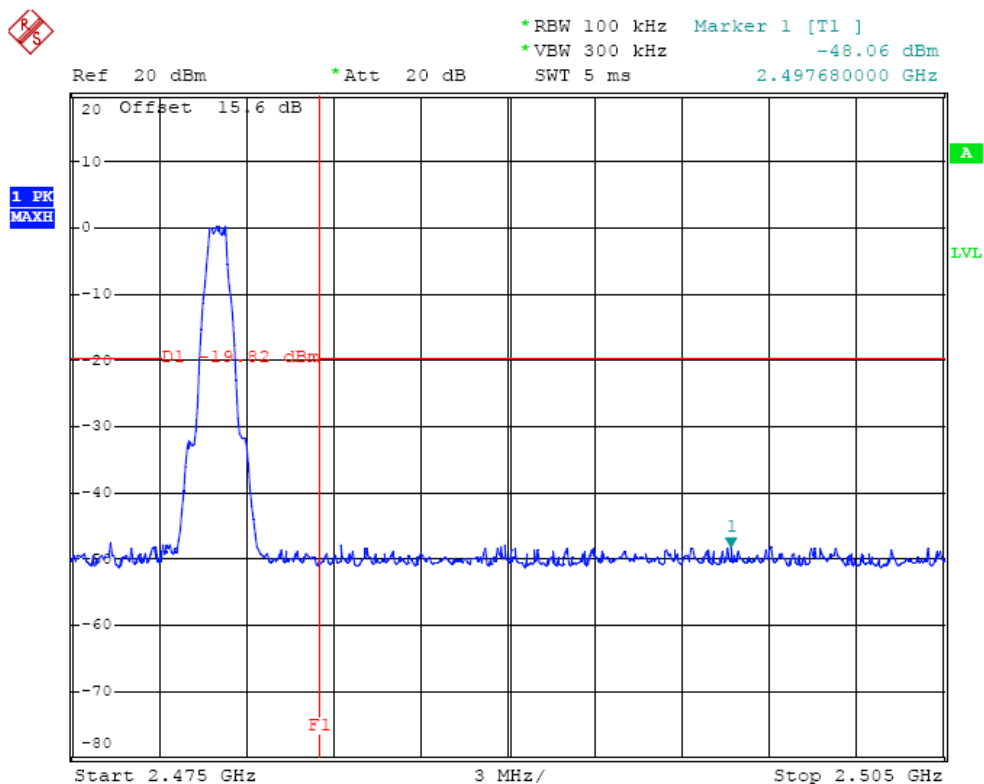
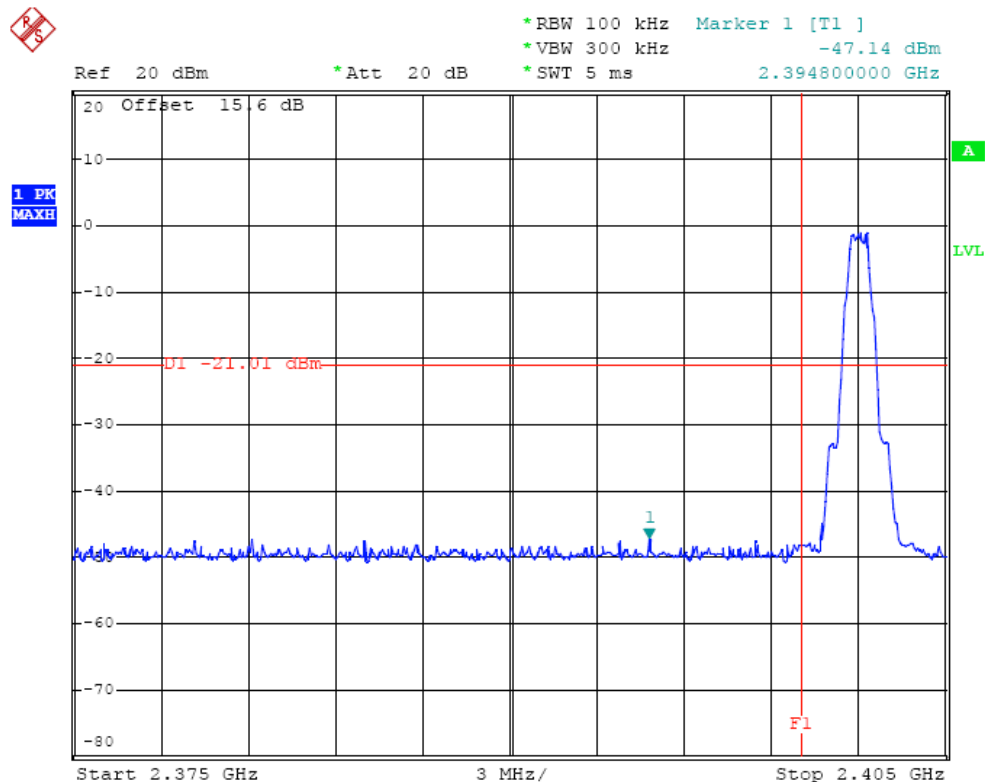




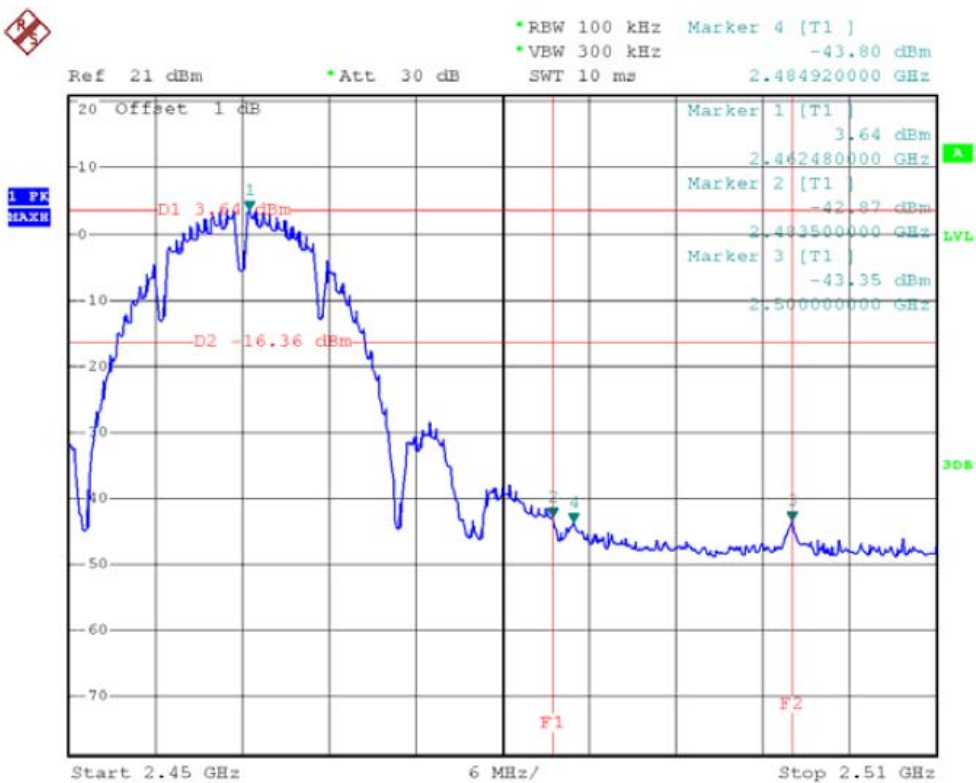
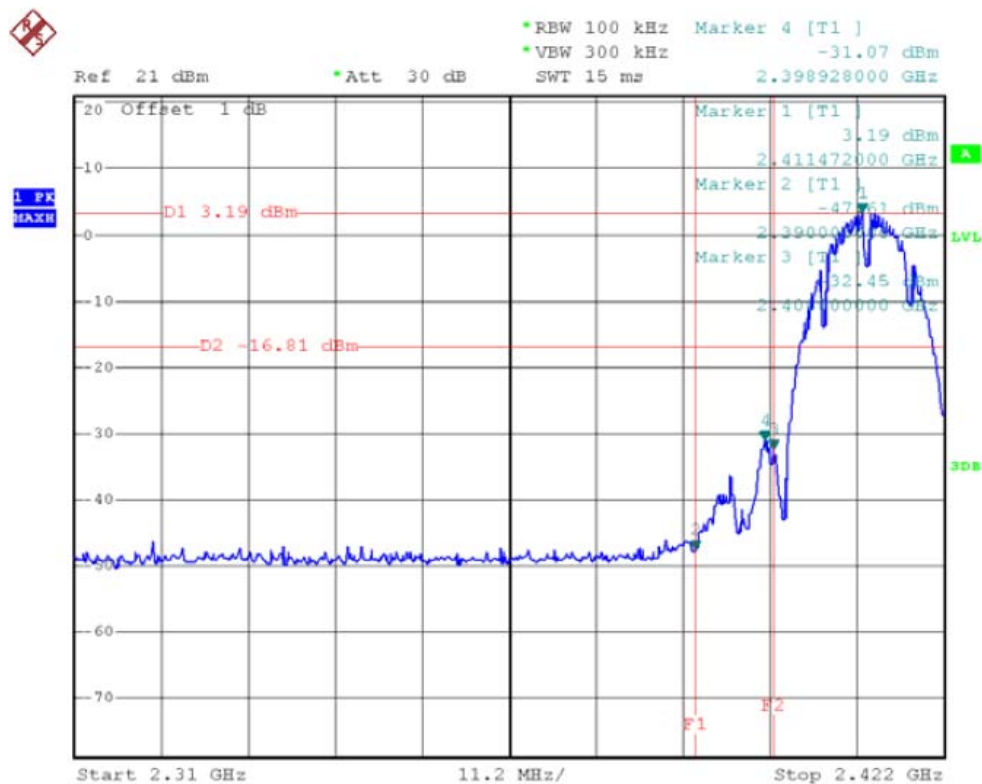


### 5.6.7. Test Results of Band Edges Test

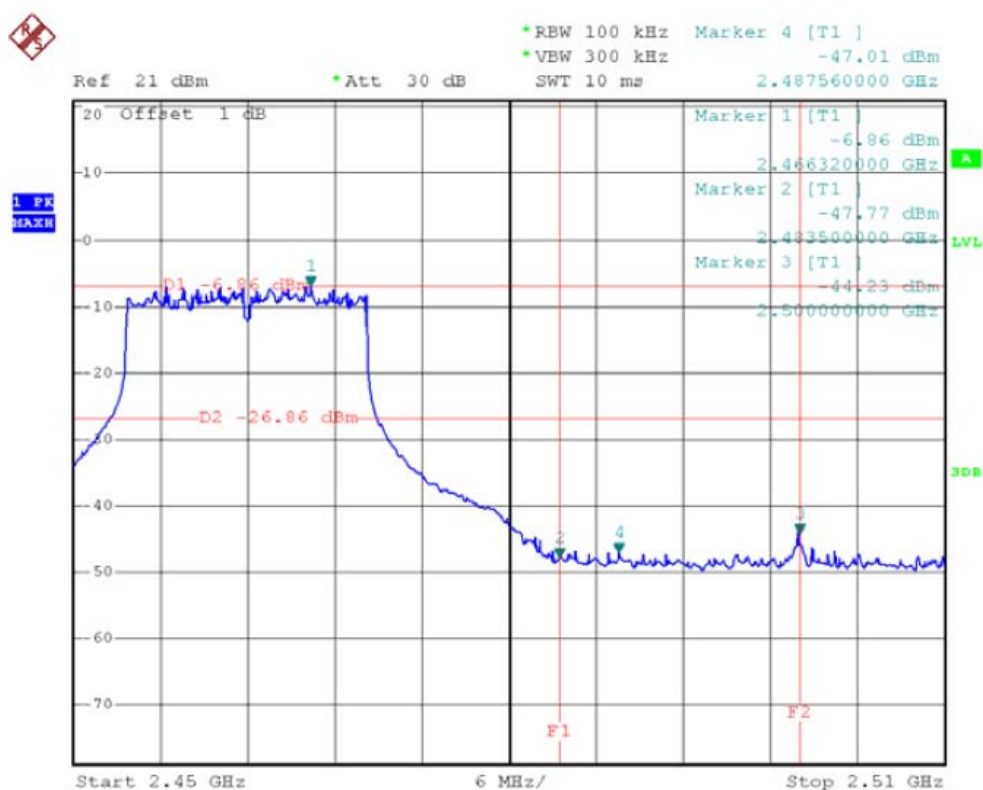
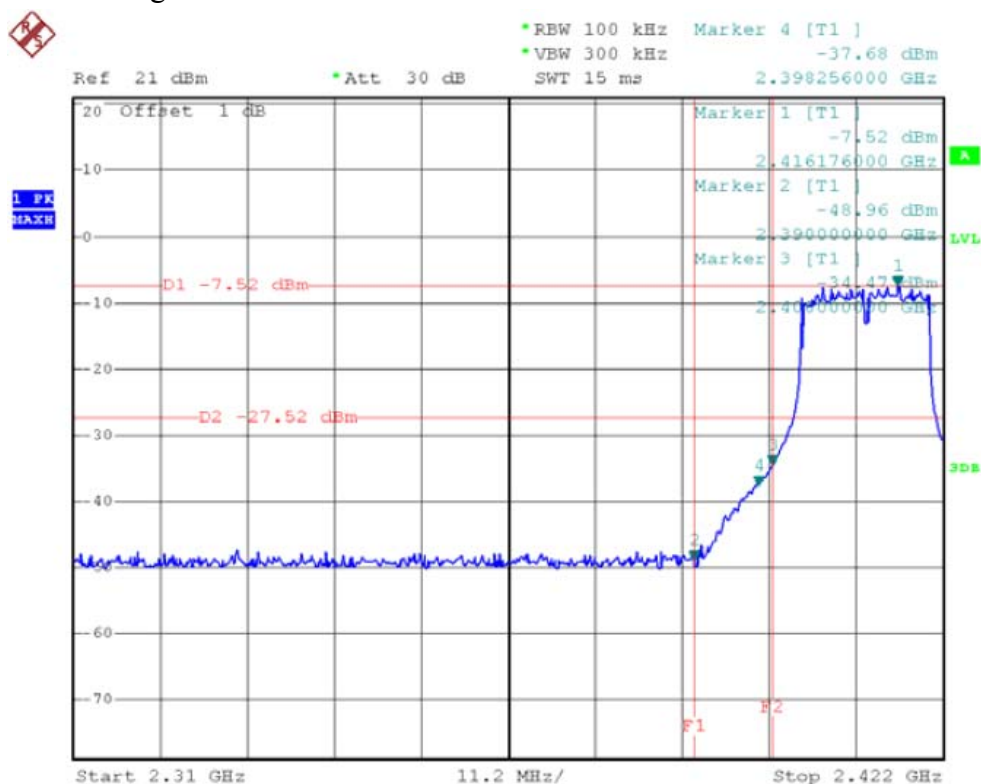
#### BLE V4.0



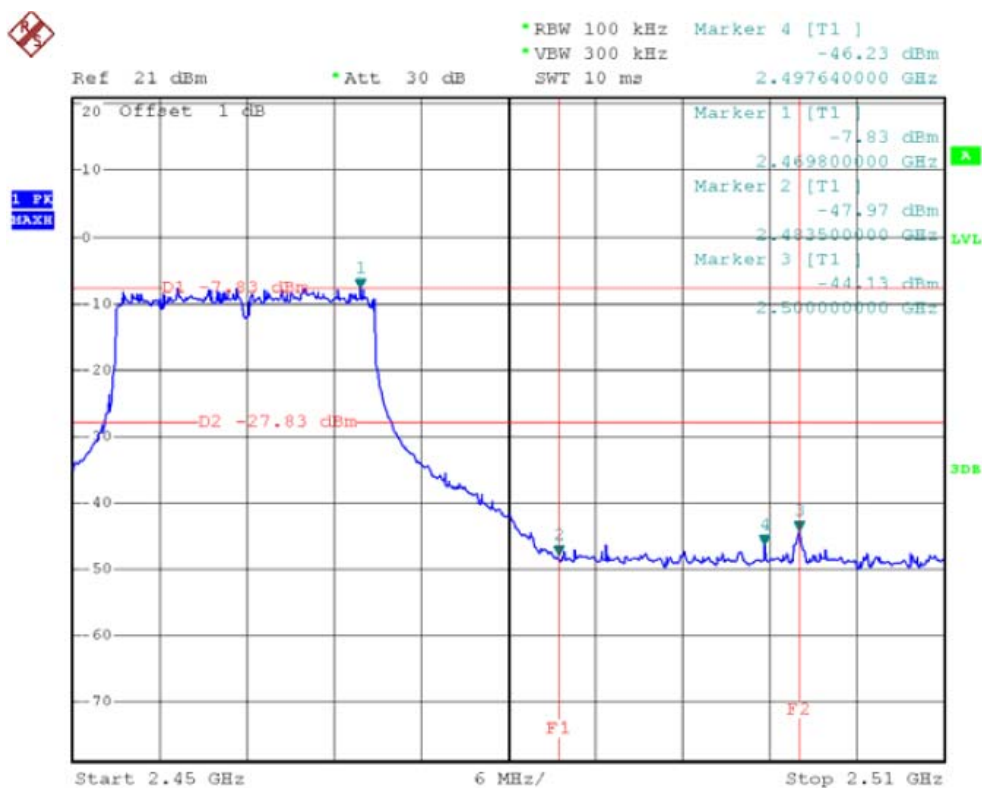
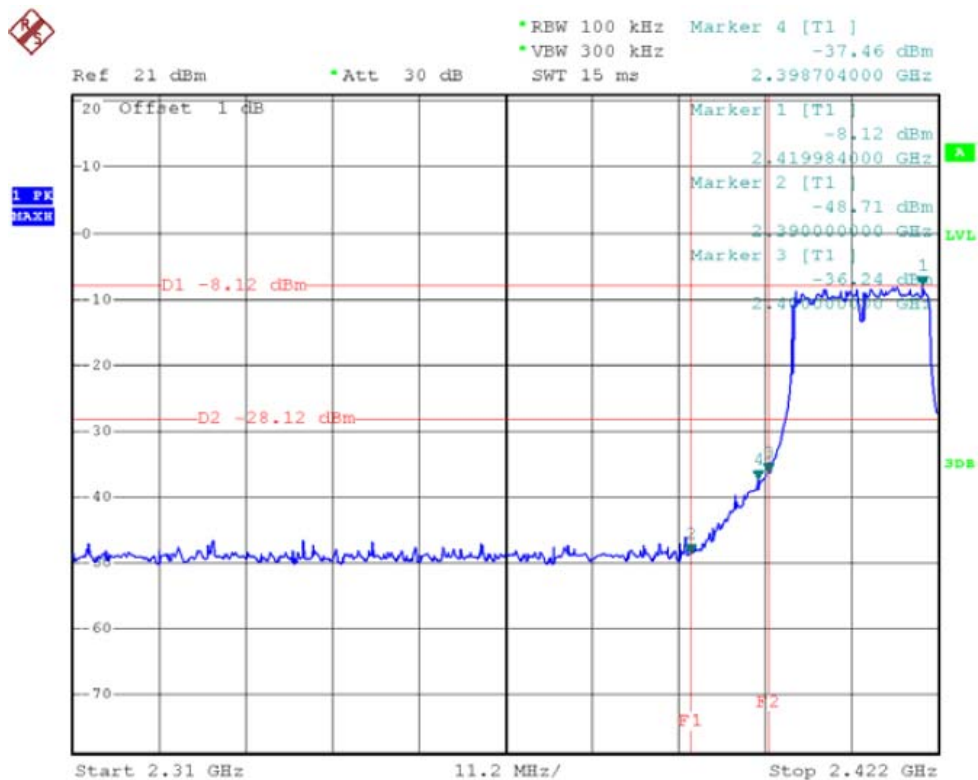
802.11b



802.11g



# 802.11n HT20



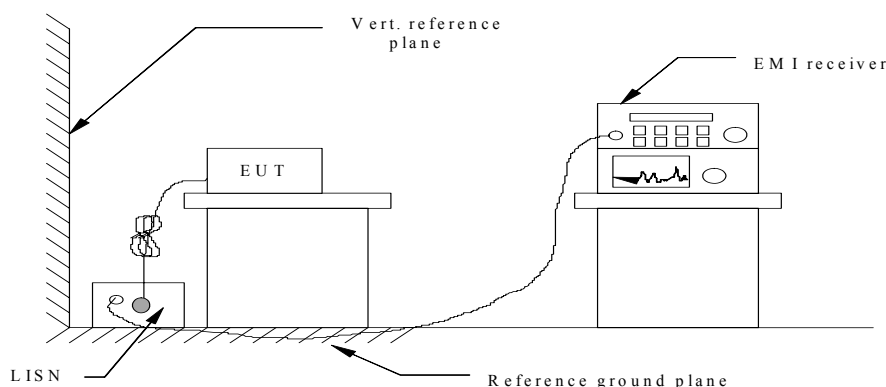
## 5.7. Power line conducted emissions

### 5.7.1 Standard Applicable

According to §15.207 (a) or RSS-Gen: For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

### 5.7.2 Block Diagram of Test Setup



### 5.7.3 Test Equipment

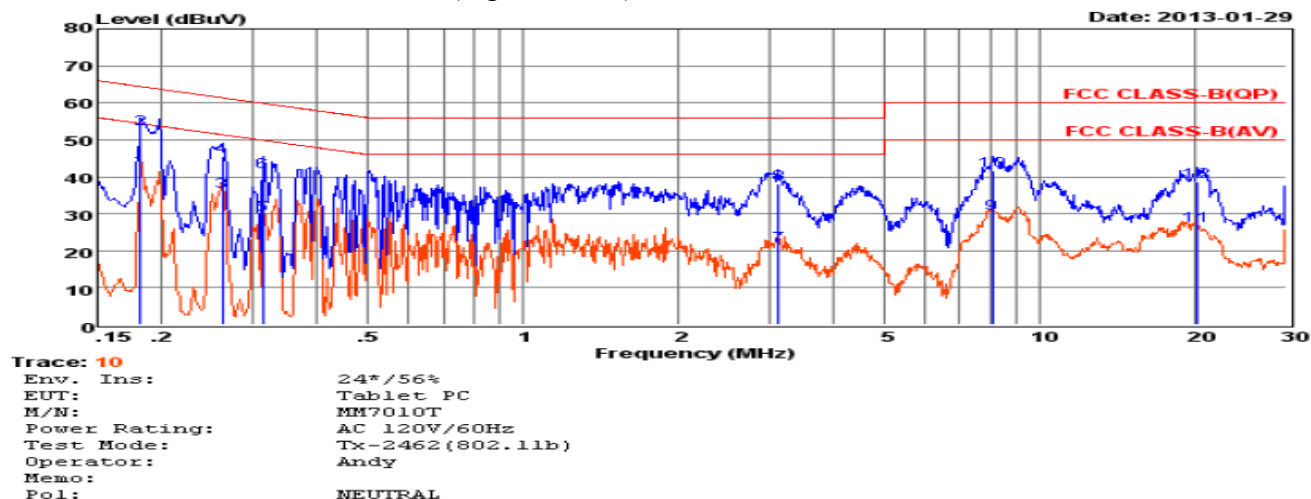
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Test Receiver	Manufacturer	ESCS30	828985/018	2012-06-18	2013-06-17
2	L.I.S.N	R&S	ESH2-Z5	834549/005	2012-06-18	2013-06-17
3	Pulse Limiter	Anritsu	ESH3-Z2	100006	2012-06-18	2013-06-17
4	Voltage Probe	R&S	TK9416	N/A	2012-06-18	2013-06-17

### 5.7.4 Test Results

PASS.

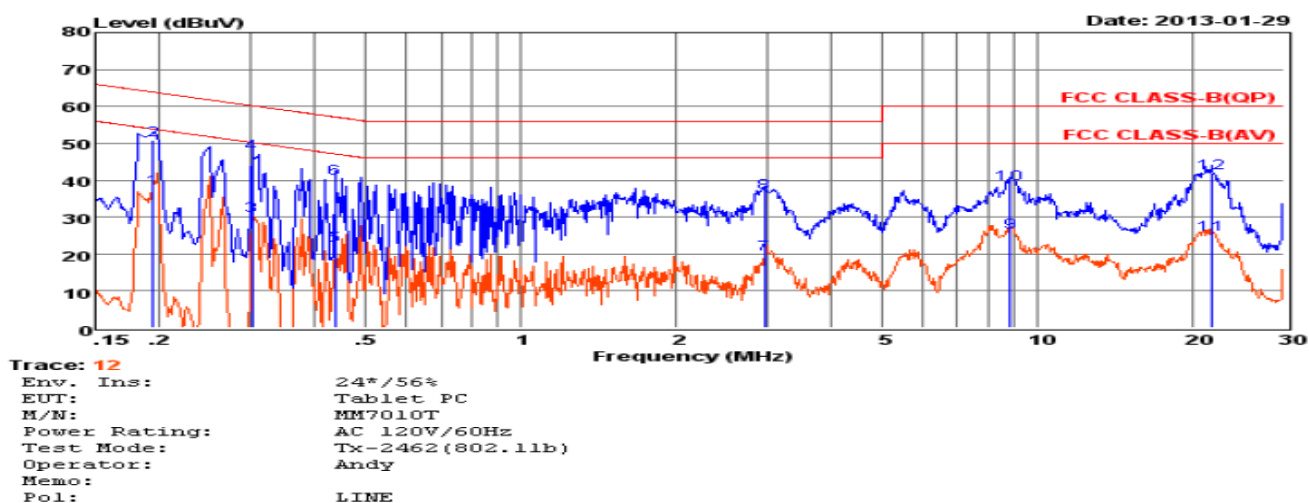
The test data please refer to following page.

Test result for 802.11b(high channel)



	Freq	Reading	LishFac	CabLos	Measured	Limit	Over	Remark
	MHz	dBuA	dB	dB	dBuA	dBuA	dB	
1	0.18	32.50	9.63	0.02	42.15	54.42	-12.27	Average
2	0.18	43.15	9.63	0.02	52.80	64.42	-11.62	QP
3	0.26	26.39	9.60	0.03	36.02	51.38	-15.36	Average
4	0.26	35.94	9.60	0.03	45.57	61.38	-15.81	QP
5	0.31	20.22	9.60	0.03	29.85	49.88	-20.03	Average
6	0.31	31.73	9.60	0.03	41.36	59.88	-18.52	QP
7	3.12	11.69	9.64	0.06	21.39	46.00	-24.61	Average
8	3.12	28.27	9.64	0.06	37.97	56.00	-18.03	QP
9	8.11	20.26	9.70	0.07	30.03	50.00	-19.97	Average
10	8.11	31.83	9.70	0.07	41.60	60.00	-18.40	QP
11	20.16	16.87	9.88	0.12	26.87	50.00	-23.13	Average
12	20.16	28.59	9.88	0.12	38.59	60.00	-21.41	QP

Remarks: 1. Measured = Reading + Lish Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.



	Freq	Reading	LishFac	CabLos	Measured	Limit	Over	Remark
	MHz	dBuA	dB	dB	dBuA	dBuA	dB	
1	0.19	28.17	9.62	0.02	37.81	53.84	-16.03	Average
2	0.19	41.33	9.62	0.02	50.97	63.84	-12.87	QP
3	0.30	20.61	9.63	0.03	30.27	50.19	-19.92	Average
4	0.30	37.76	9.63	0.03	47.42	60.19	-12.77	QP
5	0.44	12.76	9.62	0.04	22.42	47.11	-24.69	Average
6	0.44	30.78	9.62	0.04	40.44	57.11	-16.67	QP
7	2.96	10.36	9.64	0.06	20.06	46.00	-25.94	Average
8	2.96	26.74	9.64	0.06	36.44	56.00	-19.56	QP
9	8.87	16.11	9.69	0.08	25.88	50.00	-24.12	Average
10	8.87	29.04	9.69	0.08	38.81	60.00	-21.19	QP
11	21.71	15.32	9.72	0.12	25.16	50.00	-24.84	Average
12	21.71	32.03	9.72	0.12	41.87	60.00	-18.13	QP

Remarks: 1. Measured = Reading + Lish Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.

\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report (802.11b Channel 11).

## 5.8. Antenna Requirements

### 5.8.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

### 5.8.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 0.0 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

### 5.8.3. Results: Compliance.

## 6. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following series model(s):

MM8002T	MM8002Q	MM8002C	MM8002P
MM7010Q	MM7010S	MM7010	MM7018
MM9701	MM9702	MM9703	MM9704
MM9705	MM9001	MM9002	MM9003
MM9004	MM9005	MM1001	MM1002
MM1003	MM1004	MM1005	

Belong to the tested device:

Product description : Tablet PC

Model name : MM7010T

*Remark: PCB board, structure and internal of these model(s) are the same, Only enclosure is different for these models, So no additional models were tested.*

-----THE END OF REPORT-----