



# FCC PART 15C TEST REPORT

No. I20Z70291 -IOT01

for  
**Samsung Electronics Co., Ltd.**

**Smart Phone**  
**Model name: SM-A025M/DS**

**SM-A025M**

**FCC ID: ZCASMA025M**

**With**  
**Hardware Version: REV1.0**  
**Software Version: A025M.001**

**Issued Date: 2020-09-29**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I20Z70291-IOT01	Rev.0	1st edition	2020-09-29

Note: the latest revision of the test report supersedes all previous version.

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## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

### **1.2. Testing Location**

Location 1:CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China100191

Location 2:CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology  
Development Area, Beijing, P. R. China 100176

### 1.3. Testing Environment

Normal Temperature: 15-35°C  
Relative Humidity: 20-75%

### 1.4. Project date

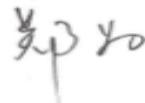
Testing Start Date: 2020-09-12  
Testing End Date: 2020-09-29

### 1.5. Signature



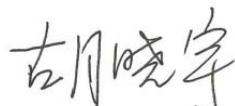
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Feng Aiyu  
(Prepared this test report)



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Zheng Wei  
(Reviewed this test report)



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Hu Xiaoyu  
(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Samsung Electronics Co., Ltd.  
Address: 19 Chapin Rd., Building D Pine Brook, NJ 07058  
City: NJ  
Country: United States  
Telephone: +1-201-937-4203

### **2.2. Manufacturer Information**

Company Name: Samsung Electronics Co., Ltd.  
Address: Samsung R5, Maetan dong 129, Samsung ro  
Youngtong gu, Suwon city 443 742, Korea  
City: Suwon  
Country: Korea  
Telephone: +82-10-2722-4159

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	Smart Phone
Model name	SM-A025M/DS
	SM-A025M
FCC ID	ZCASMA025M
With WLAN Function	Yes
Frequency Range	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Integral Antenna
MAX Conducted Power	24.58 dBm
Nominal Voltage	3.85V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.6V

#### **3.2. Internal Identification of EUT**

EUT ID*	SN or IMEI	HW Version	SW Version
UT04a	2070291UT04a	REV1.0	A025M.001
UT09a	2070291UT09a	REV1.0	A025M.001

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE**

AE ID*	Description	SN	Remarks
AE1	Charger1	/	
AE2	Charger2	/	
AE3	Charger3	/	/
AE4	Charger4		
AE5	Charger5		
AE6	USB cable		
AE7	Headset1	/	/
AE8	Headset2	/	/
AE9	battery	/	/
AE1			
	Model	EP-TA50JWE	
	Manufacturer	HAEM Co.,Ltd	
	Length of cable	/	
AE2			
	Model	EP-TA50JWE	
	Manufacturer	RFTech Electronics(HuiZhou)Co.,LTD	

Length of cable	/
AE3	
Model	EP-TA200
Manufacturer	HAEM Co.,Ltd
Length of cable	/
AE4	
Model	EP-TA200
Manufacturer	RFTech Electronics(HuiZhou)Co.,LTD
Length of cable	/
AE5	
Model	EP-TA200
Manufacturer	SoluM Co.,Ltd
Length of cable	/
AE6	
Model	EP-DR140AWE
Manufacturer	Samsung Electronics Co., Ltd.
Length of cable	/
AE7	
Model	EHS61ASFWE
Manufacturer	DONGGUAN YOUNGBO ELECTRONICS CO.,LTD
Length of cable	/
AE8	
Model	EHS61ASFWE
Manufacturer	WATA ELECTRONICS CO.,LTD
Length of cable	/
AE9	
Type	HQ-50S
Manufacturer	SUCD(FUJIAN) Electronics Co.,Ltd
Length of cable	/

\*AE ID: is used to identify the test sample in the lab internally.

### 3.4. General Description

The Equipment under Test (EUT) is a model of Smart Phone with Bluetooth, WLAN with integrated antenna and inbuilt battery.

It has Bluetooth (EDR) function.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

### 3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor k=2.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

## 4. Reference Documents

### 4.1. Documents supplied by applicant

EUT parameters, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	2018
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Federal Communications Commission Office of Engineering and Technology Laboratory Division GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES	2013
KDB 558074 D01		2019

## 5. Test Results

### 5.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (b)	/	P
Peak Power Spectral Density	15.247 (e)	/	P
Occupied 6dB Bandwidth	15.247 (a)	/	P
Band Edges Compliance	15.247 (d)	/	P
Transmitter Spurious Emission - Conducted	15.247 (d)	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

### 5.2. Statements

The test cases as listed in section 5.1 of this report for the EUT specified in section 3 was performed by CTTL and according to the standards or reference documents listed in section 4.2

The EUT met all requirements of the standards or reference documents, and only the WLAN function was tested in this report.

### 5.3. Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage

For this report, if the test cases listed above are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	T nom	26°C
Voltage	V nom	3.8V
Humidity	H nom	20-75%

## 6. Test Facilities Utilized

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2021-05-15
2	LISN	ENV216	101459	R&S	1 year	2021-04-10
3	Test Receiver	ESCI7	100948	R&S	1 year	2021-07-17
4	Shielding Room	S81	/	ETS-Lindgren	/	/
5	Attenuator	DC-18Ghz	/	Rosenberger	/	/

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	1 year	2021-10-30
2	BiLog Antenna	VULB9163	01176	Schwarzbeck	1 year	2021-03-14
3	Dual-Ridge Waveguide Horn Antenna	3117	00139065	ETS-Lindgren	1 year	2021-11-10
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	1 year	2021-06-18
5	Vector Signal Analyzer	FSV40	101047	Rohde & Schwarz	1 year	2021-05-16

## **7. Measurement Uncertainty**

### **7.1. Maximum Output Power**

Measurement Uncertainty: 0.387dB,k=1.96

### **7.2. Peak Power Spectral Density**

Measurement Uncertainty: 0.705dB,k=1.96

### **7.3. DTS 6-dB Signal Bandwidth**

Measurement Uncertainty: 60.80Hz,k=1.96

### **7.4. Band Edges Compliance**

Measurement Uncertainty : 0.62dB,k=1.96

### **7.5. Transmitter Spurious Emission**

#### **Conducted (k=1.96)**

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤ 3.6GHz	1.22
3.6GHz ≤ f ≤ 8GHz	1.22
8GHz ≤ f ≤ 12.75GHz	1.51
12.75GHz ≤ f ≤ 26GHz	1.51
26GHz ≤ f ≤ 40GHz	1.59

#### **Radiated (k=2)**

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.40
1GHz ≤ f ≤ 18GHz	4.32
18GHz ≤ f ≤ 40GHz	5.26

### **7.6. AC Power-line Conducted Emission**

Measurement Uncertainty : 3.10dB,k=2

## **ANNEX A: Detailed Test Results**

### **A.1. Measurement Method**

#### **A.1.1. Conducted Measurements**

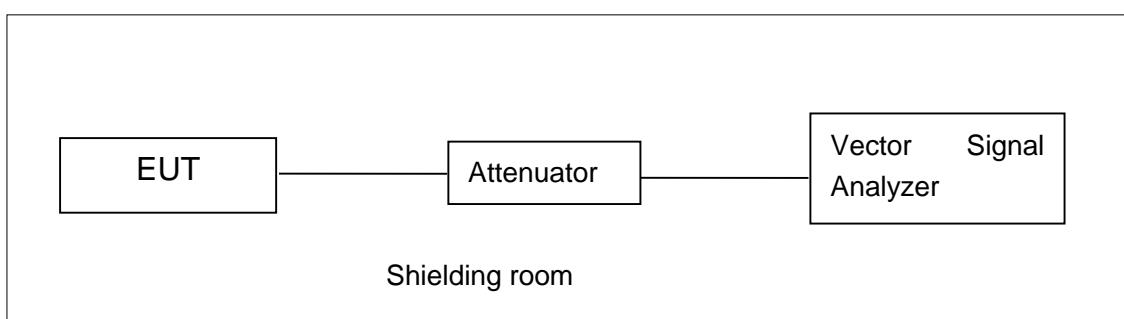
Connect the EUT to the test system as Fig.A.1.1.1 shows.

Set the EUT to the required work mode.

Set the EUT to the required channel.

Set the Vector Signal Analyzer and start measurement.

Record the values. Vector Signal Analyzer



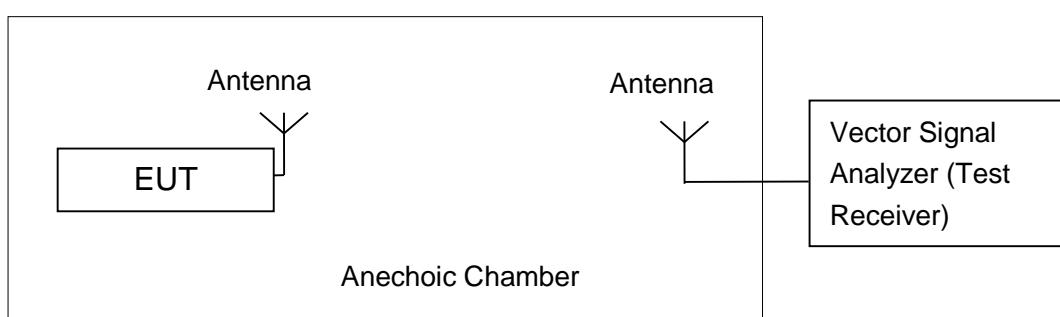
**Fig.A.1.1.1: Test Setup Diagram for Conducted Measurements**

#### **A.1.2. Radiated Emission Measurements**

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



**Fig.A.1.2.1: Test Setup Diagram for Radiated Measurements**

## A.2. Maximum Output Power

**Method of Measurement: See ANSI C63.10-2013-clause 11.9.1.2**

- a) Set the RBW = 1 MHz.
- b) Set the VBW = 3 MHz.
- c) Set the span  $\geq [1.5 \times \text{DTS bandwidth}]$ .
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector).

**Measurement Limit:**

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

**EUT ID: EUT1**

### **A.2.1. Peak Output Power-conducted**

**Measurement Results:**

**802.11b/g mode**

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	21.61	21.17	20.29
	2	21.51	/	/
	5.5	20.84	/	/
	11	21.34	/	/
802.11g	6	24.48	24.58	24.18
	9	24.43	/	/
	12	24.21	/	/
	18	24.20	/	/
	24	24.20	/	/
	36	24.21	/	/
	48	24.27	/	/
	54	24.28	/	/

The data rate 1Mbps and 6Mbps are selected as worse condition, and the following cases are performed with this condition.

**802.11n-HT20 mode**

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	23.40	22.68	22.98
	MCS1	23.25	/	/
	MCS2	23.29	/	/
	MCS3	23.37	/	/
	MCS4	22.67	/	/
	MCS5	22.70	/	/
	MCS6	22.73	/	/
	MCS7	22.80	/	/

**802.11n-HT40 mode**

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch3)	2437MHz (Ch6)	2462 MHz (Ch9)
802.11n (40MHz)	MCS0	23.08	23.35	23.25
	MCS1	22.72	/	/
	MCS2	22.67	/	/
	MCS3	22.84	/	/
	MCS4	22.06	/	/
	MCS5	22.16	/	/
	MCS6	22.15	/	/
	MCS7	22.12	/	/

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

Note:The duty cycle of the EUT is 100%.

**Conclusion: Pass**

### A.3. Peak Power Spectral Density

**Method of Measurement:** See ANSI C63.10-2013-clause 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to RBW = 3 kHz.
- d) Set the VBW = 10 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

**Measurement Limit:**

Standard	Limit
FCC CRF Part 15.247(e)	< 8 dBm/3 kHz

**Measurement Results:**

#### 802.11b/g mode

Mode	Channel	Power Spectral Density ( dBm/3 kHz )		Conclusion
802.11b	1	Fig.A.3.1	-5.71	P
	6	Fig.A.3.2	-5.08	P
	11	Fig.A.3.3	-5.76	P
802.11g	1	Fig.A.3.4	-8.83	P
	6	Fig.A.3.5	-9.02	P
	11	Fig.A.3.6	-9.26	P

#### 802.11n-HT20 mode

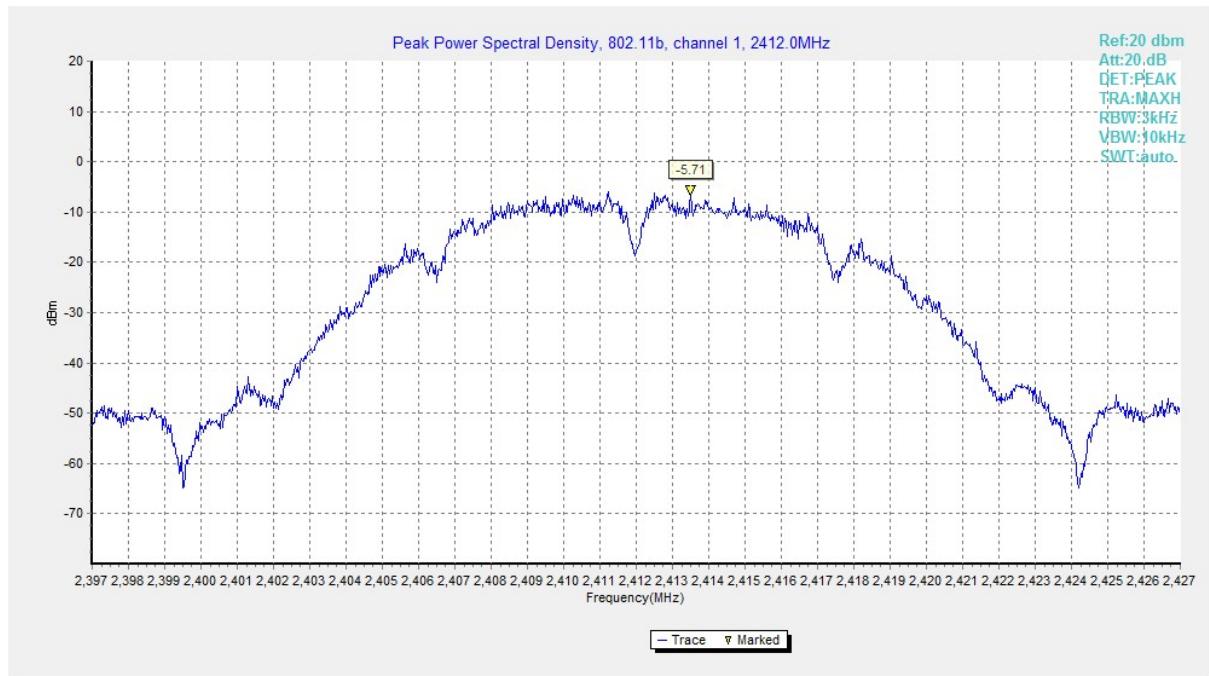
Mode	Channel	Power Spectral Density ( dBm/3 kHz )		Conclusion
802.11n (HT20)	1	Fig.A.3.7	-10.36	P
	6	Fig.A.3.8	-9.43	P
	11	Fig.A.3.9	-11.05	P

#### 802.11n-HT40 mode

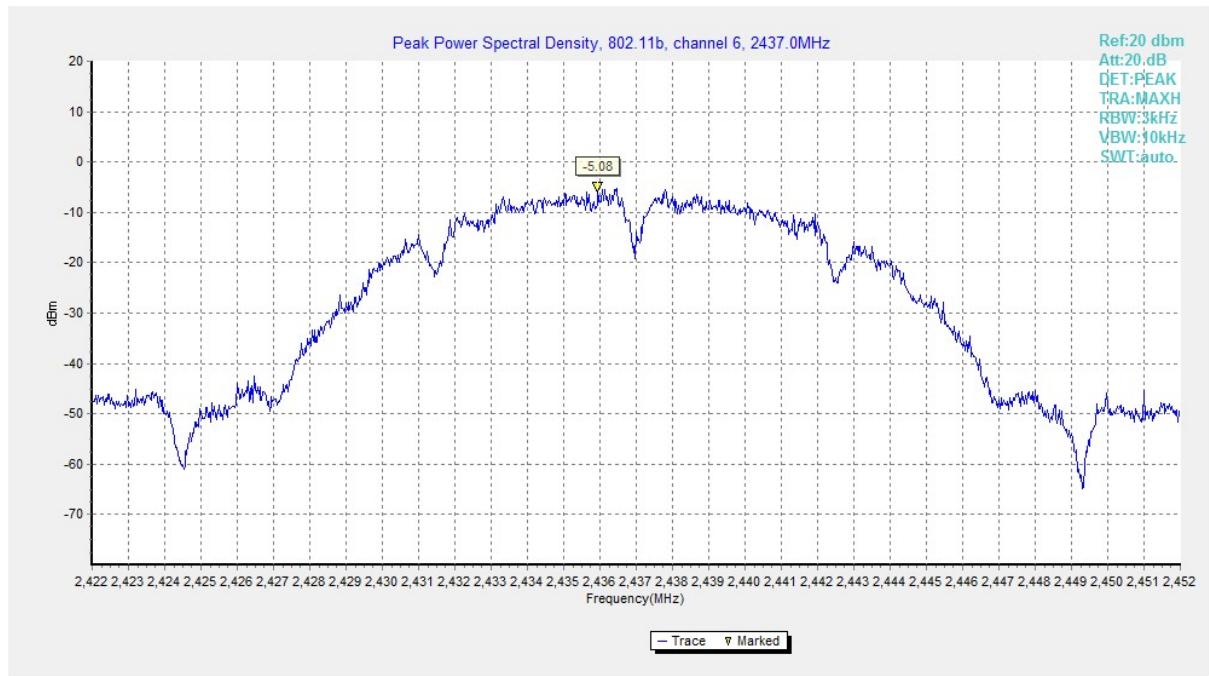
Mode	Channel	Power Spectral Density ( dBm/3 kHz )		Conclusion
802.11n (HT20)	3	Fig.A.3.10	-11.85	P
	6	Fig.A.3.11	-11.75	P
	9	Fig.A.3.12	-13.87	P

**Conclusion: Pass**

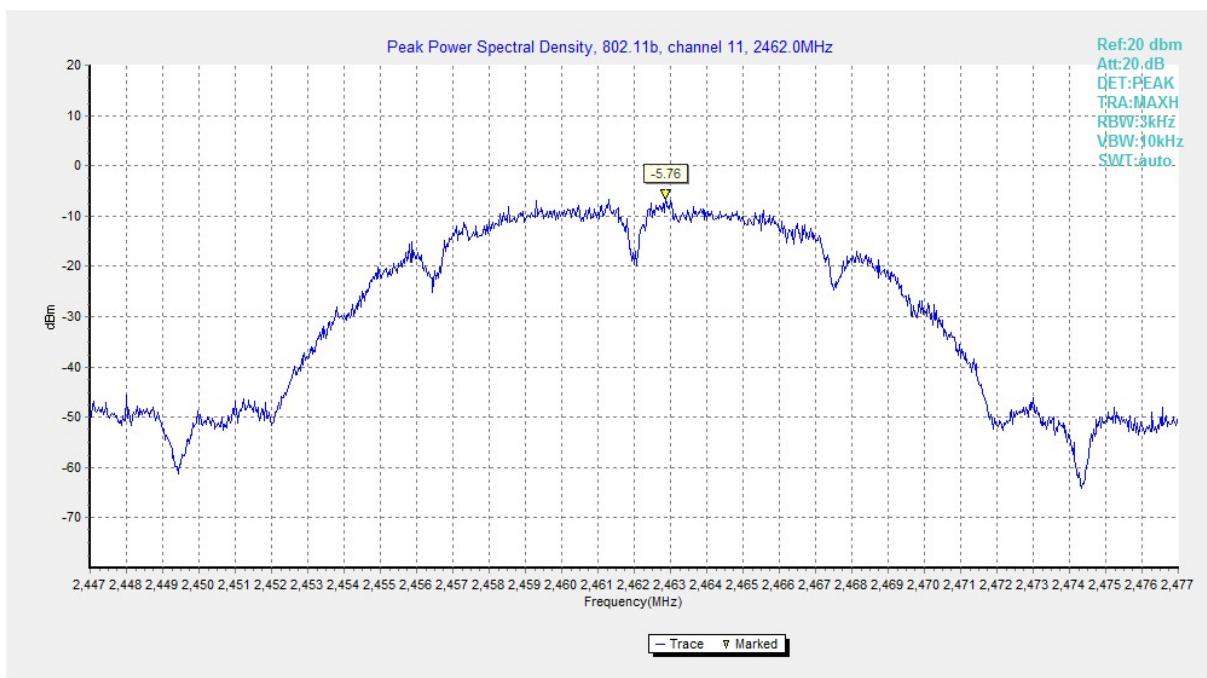
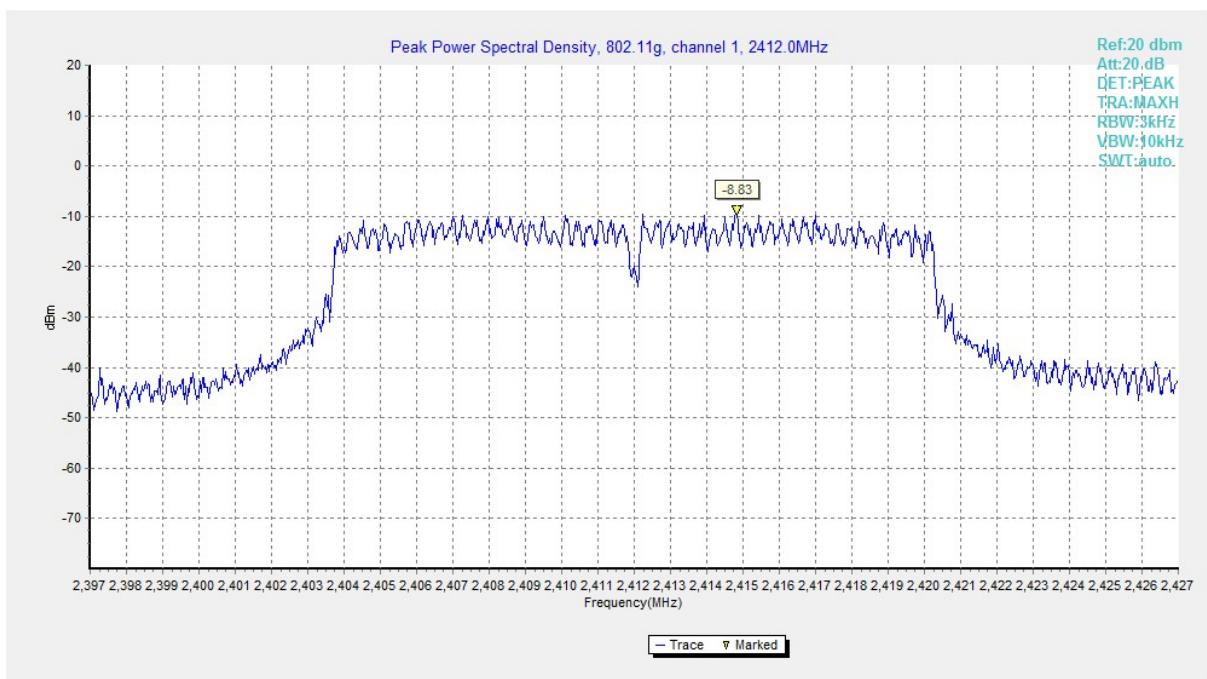
**Test graphs as below:**

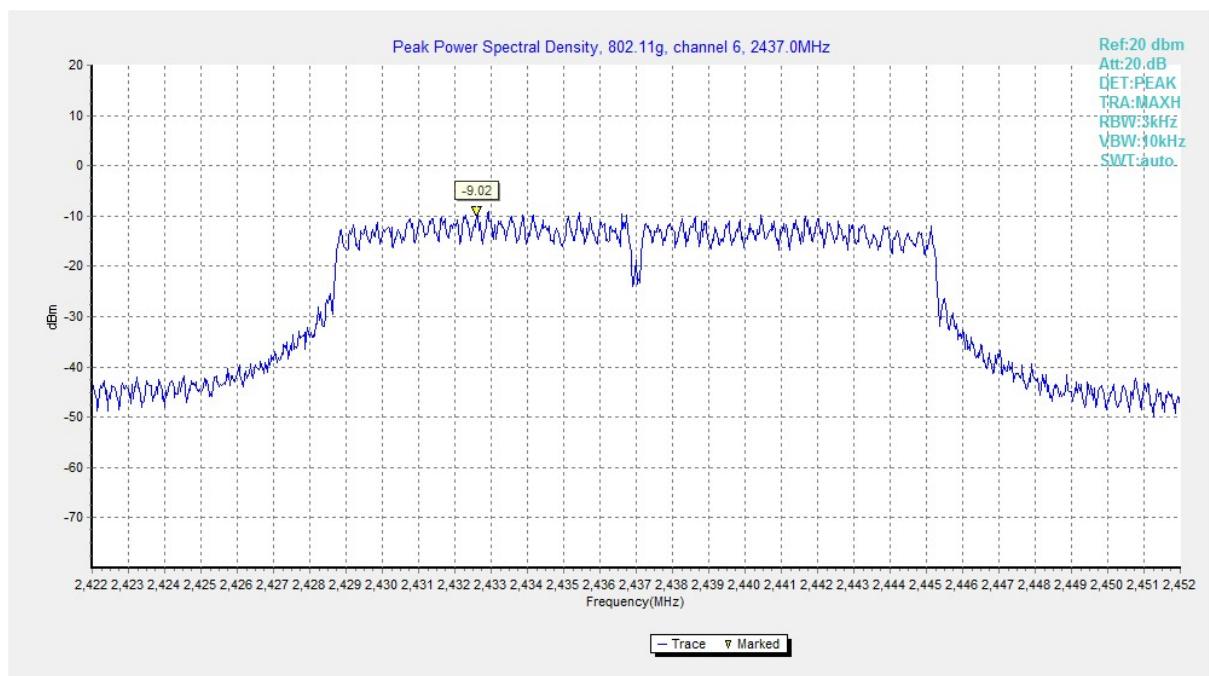


**Fig.A.3.1      Power Spectral Density(802.11b,Ch1)**

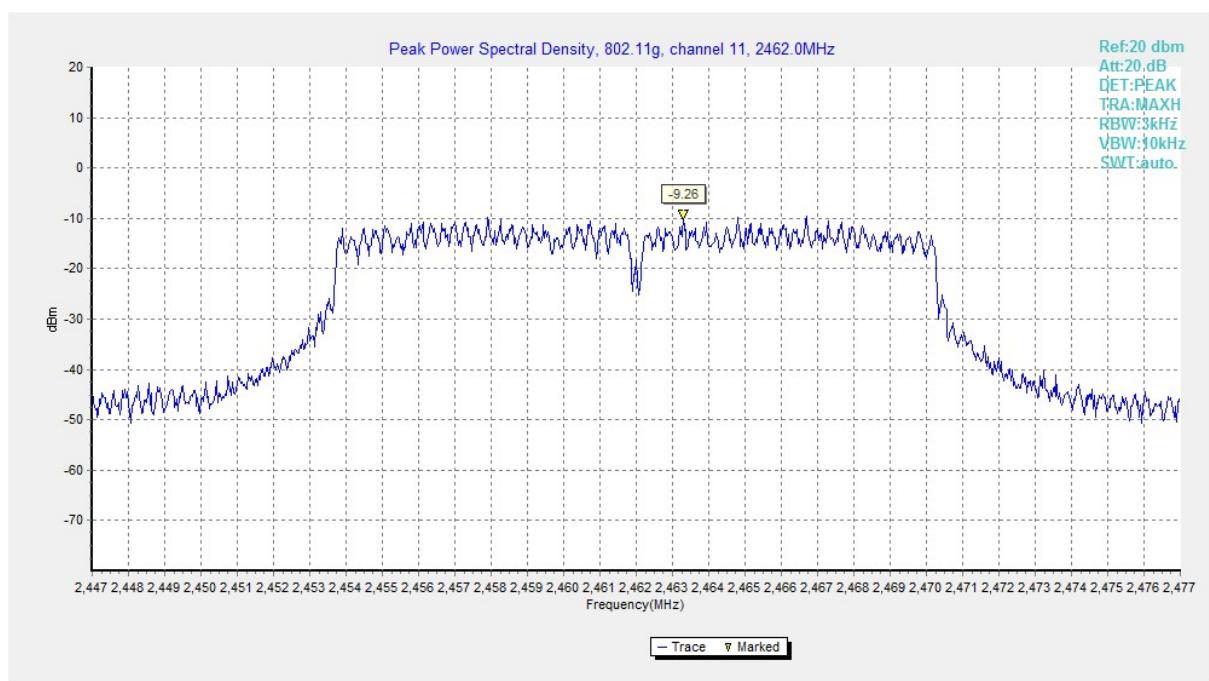


**Fig.A.3.2      Power Spectral Density (802.11b, Ch 6)**

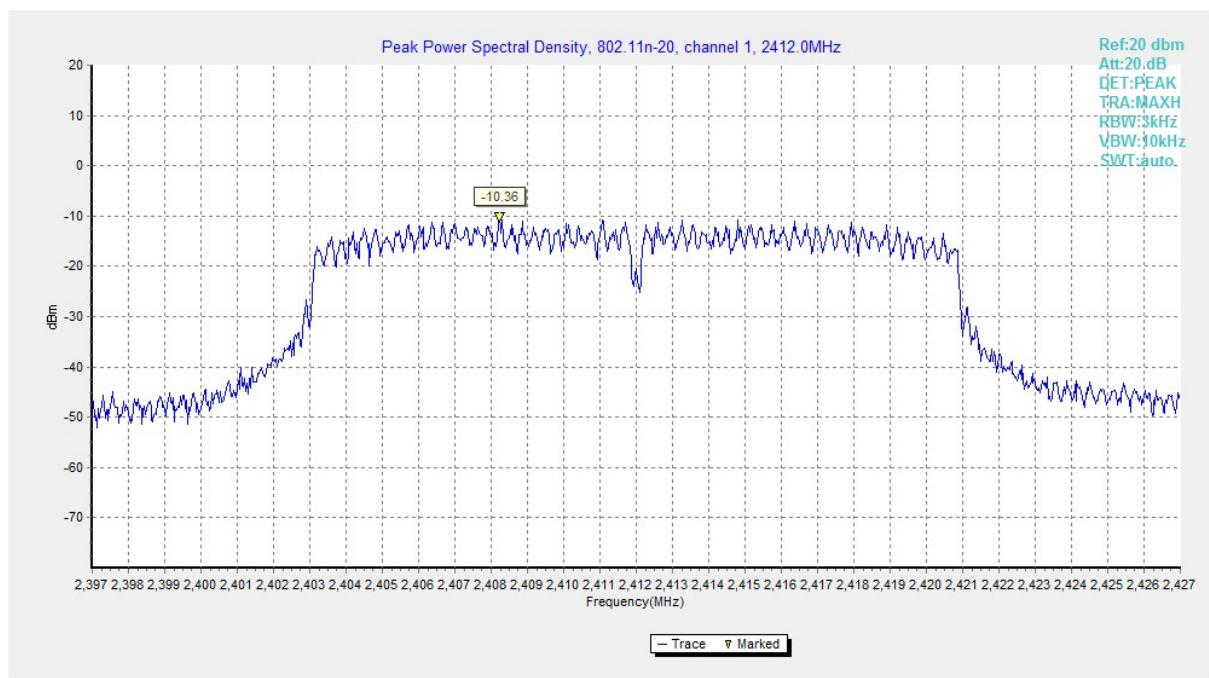

**Fig.A.3.3 Power Spectral Density (802.11b, Ch 11)**

**Fig.A.3.4 Power Spectral Density (802.11g, Ch 1)**



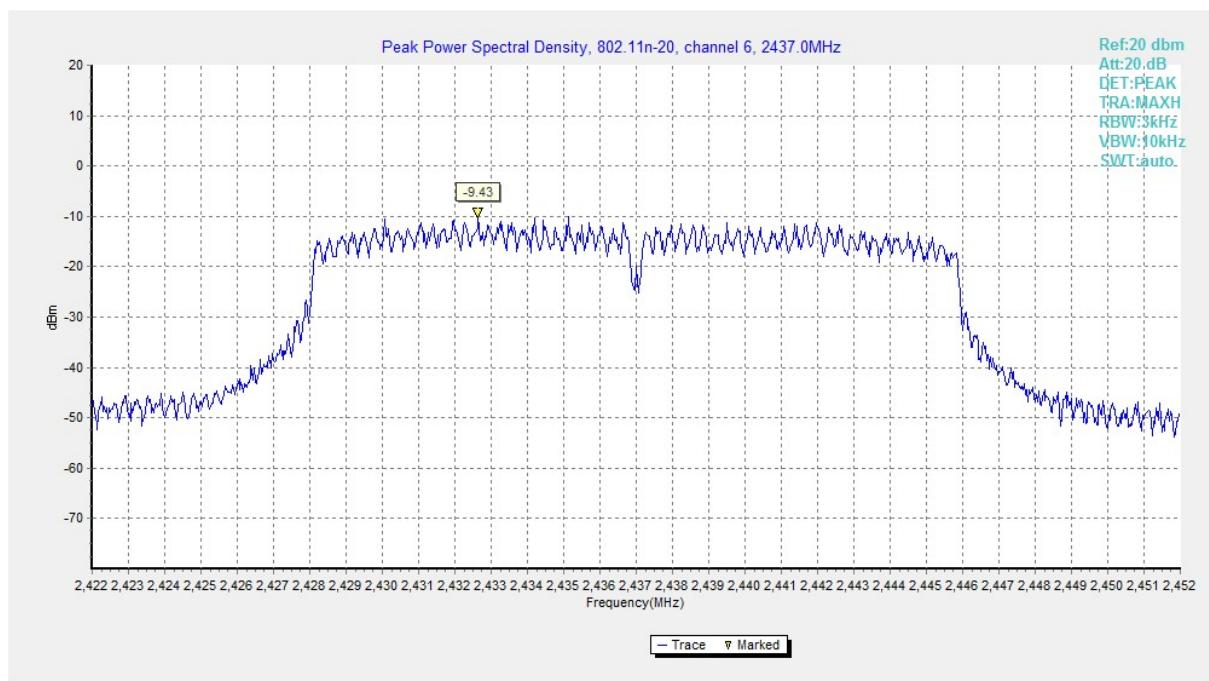
**Fig.A.3.5      Power Spectral Density (802.11g, Ch 6)**



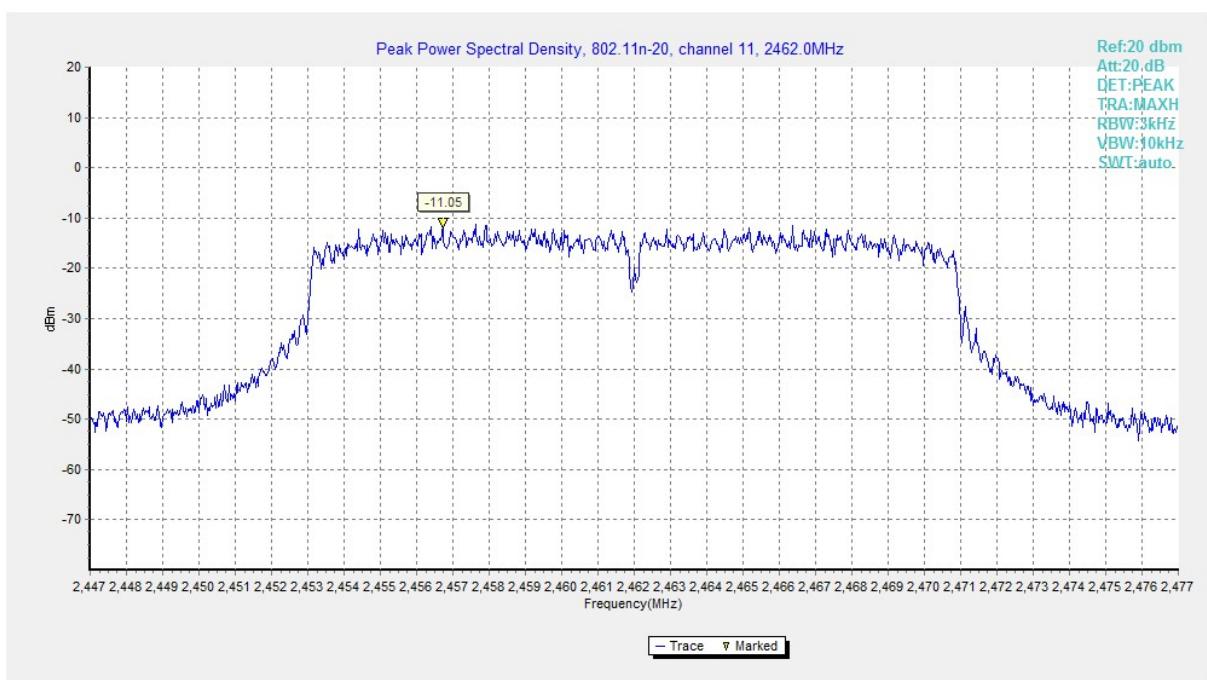
**Fig.A.3.6      Power Spectral Density (802.11g, Ch 11)**



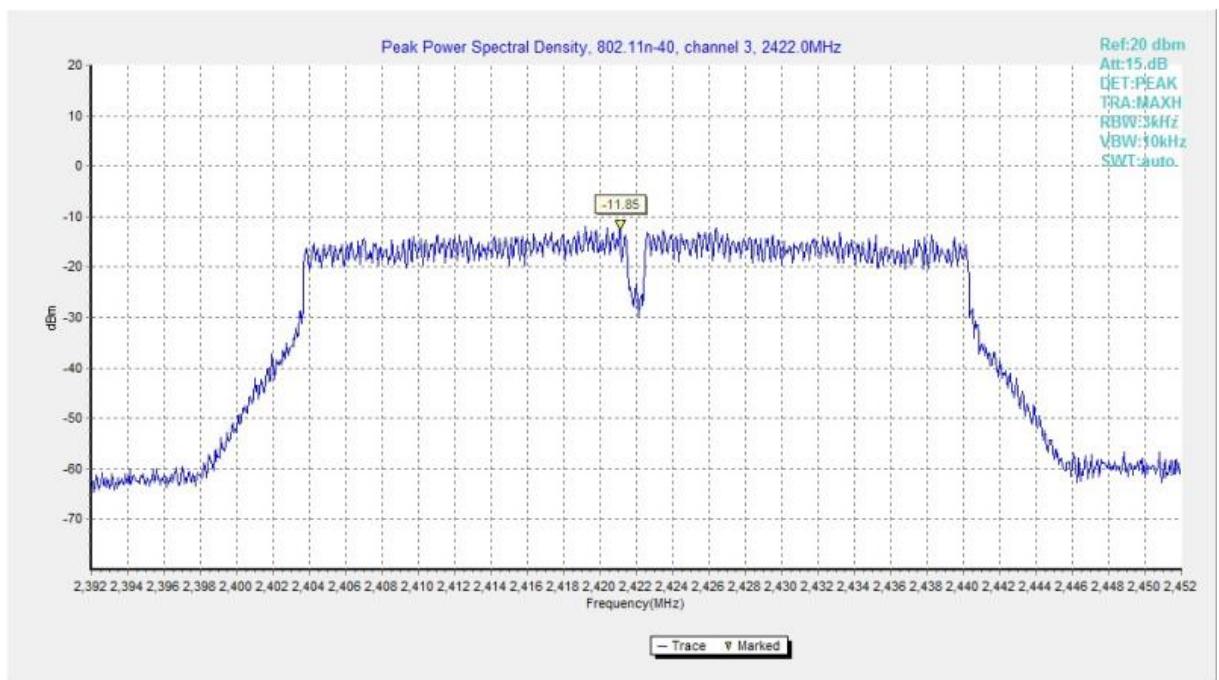
**Fig.A.3.7      Power Spectral Density (802.11n-HT20, Ch 1)**



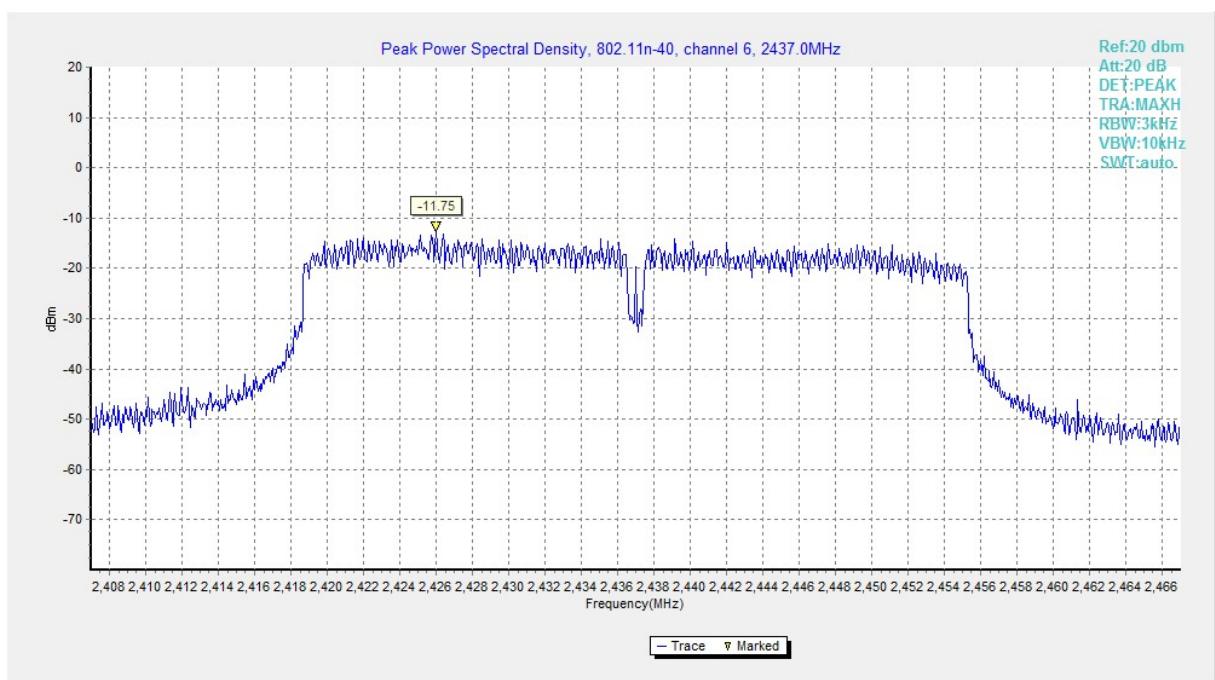
**Fig.A.3.8      Power Spectral Density (802.11n-HT20, Ch 6)**



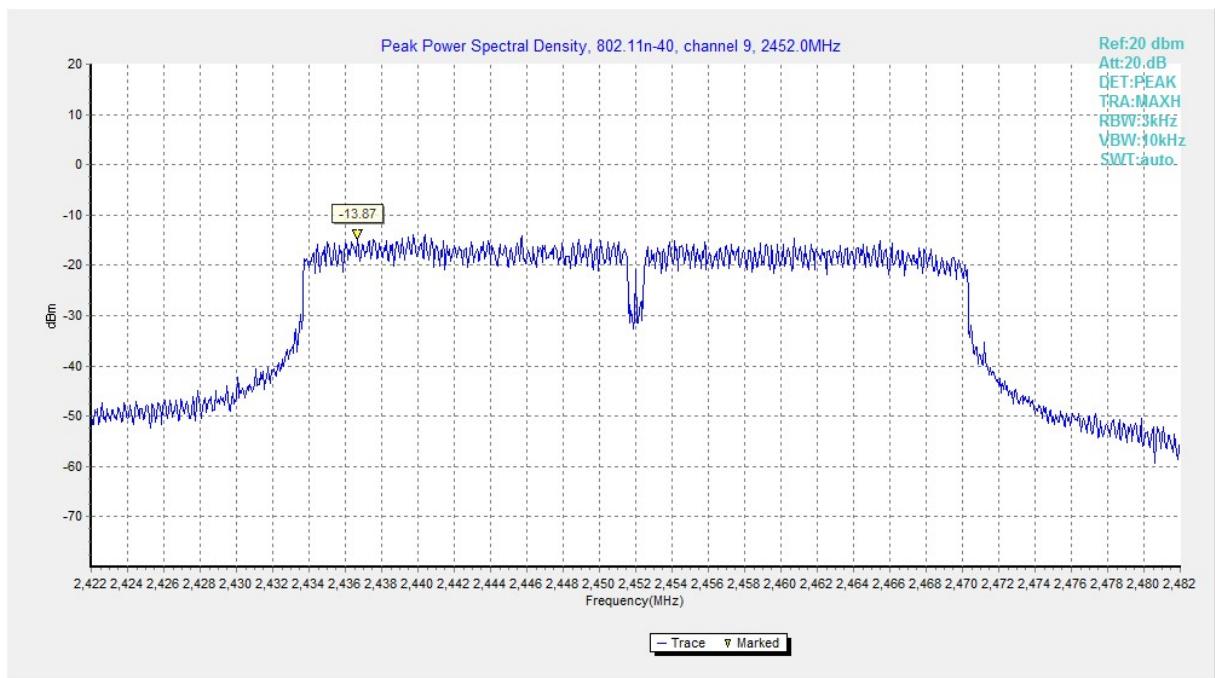
**Fig.A.3.9      Power Spectral Density (802.11n-HT20, Ch 11)**



**Fig.A.3.10      Power Spectral Density (802.11n-HT40, Ch 3)**



**Fig.A.3.11 Power Spectral Density (802.11n-HT40, Ch 6)**



**Fig.A.3.12 Power Spectral Density (802.11n-HT40, Ch 9)**

#### A.4. DTS 6-dB Signal Bandwidth

**Method of Measurement:** See ANSI C63.10-2013 section 11.8.1.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) = 300 kHz.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**Measurement Limit:**

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

**EUT ID: EUT1**

**Measurement Result:**

**802.11b/g mode**

Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11b	1	Fig.A.4.1	9100.00	P
	6	Fig.A.4.2	8450.00	P
	11	Fig.A.4.3	9600.00	P
802.11g	1	Fig.A.4.4	16350.00	P
	6	Fig.A.4.5	15700.00	P
	11	Fig.A.4.6	16450.00	P

**802.11n-HT20 mode**

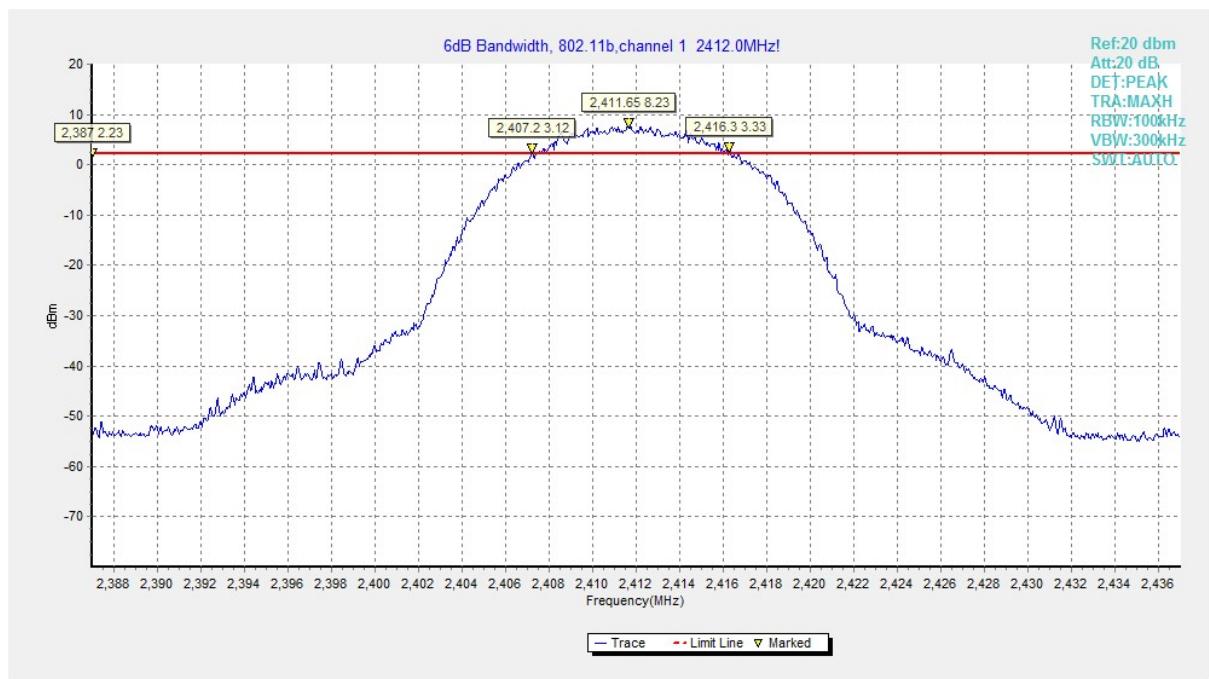
Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11n (HT20)	1	Fig.A.4.7	17250.00	P
	6	Fig.A.4.8	17550.00	P
	11	Fig.A.4.9	17300.00	P

**802.11n-HT20 mode**

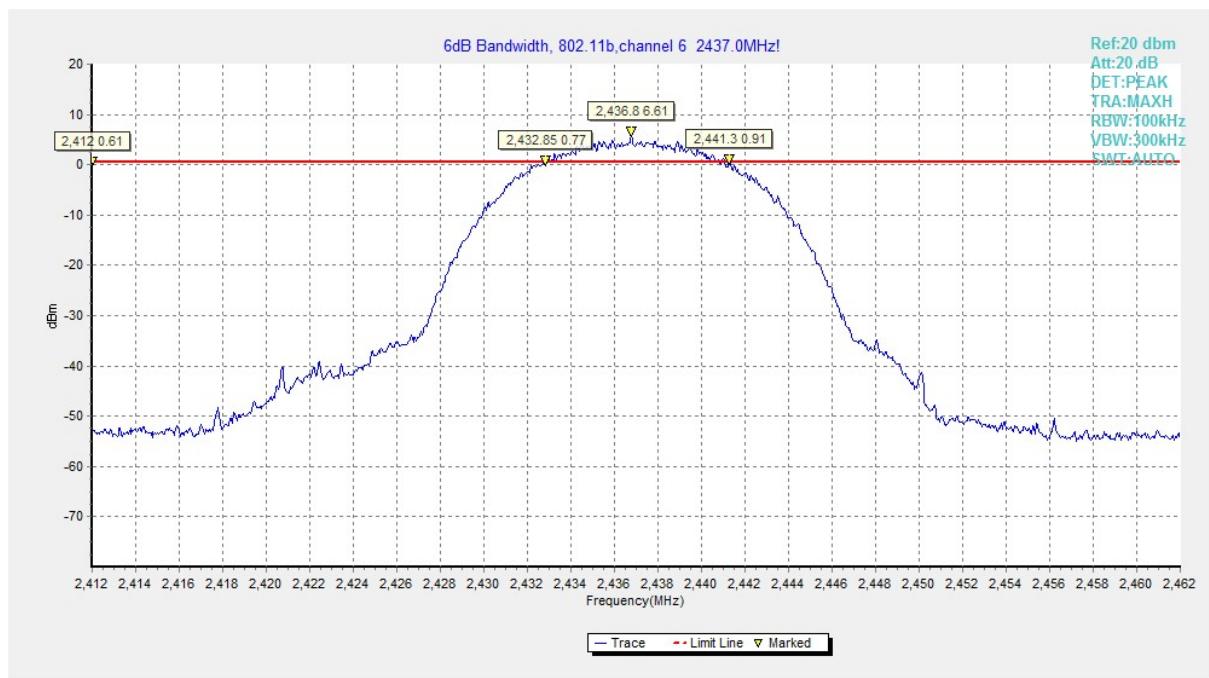
Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11n (HT20)	3	Fig.A.4.1	35680.00	P
	6	Fig.A.4.2	36080.00	P
	9	Fig.A.4.3	35760.00	P

**Conclusion: Pass**

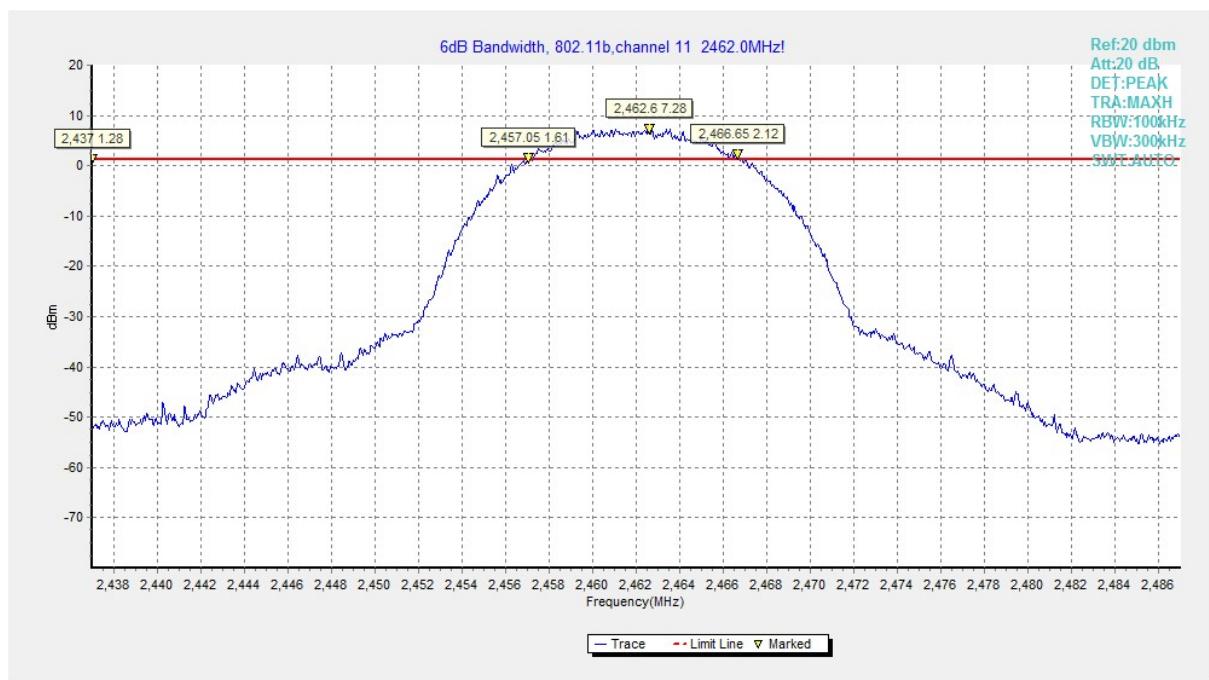
**Test graphs as below:**



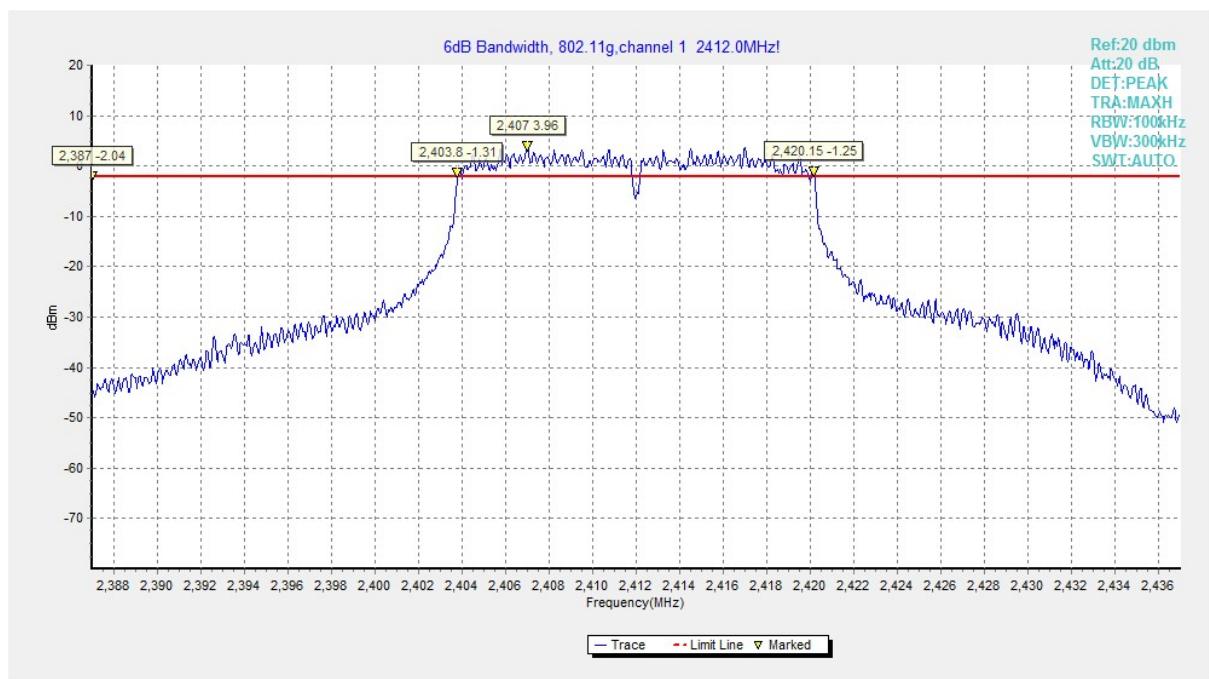
**Fig.A.4.1 Occupied 6dB Bandwidth(802.11b,Ch 1)**



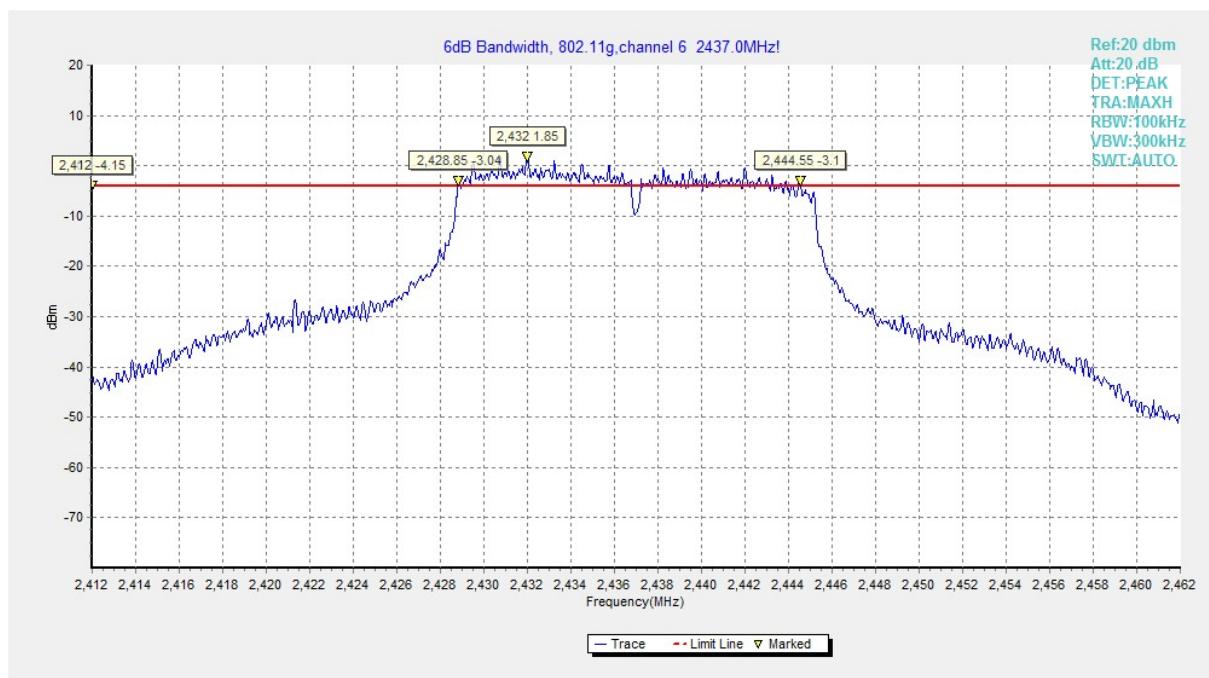
**Fig.A.4.2 Occupied 6dB Bandwidth (802.11b, Ch 6)**



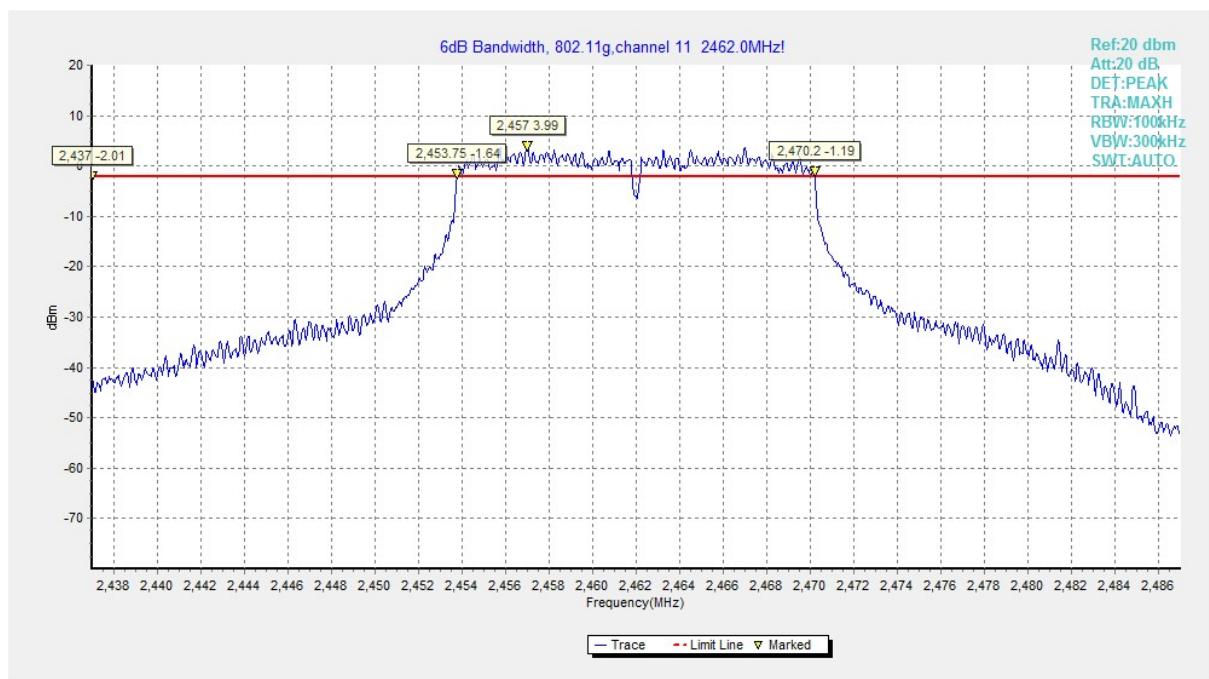
**Fig.A.4.3 Occupied 6dB Bandwidth (802.11b, Ch 11)**



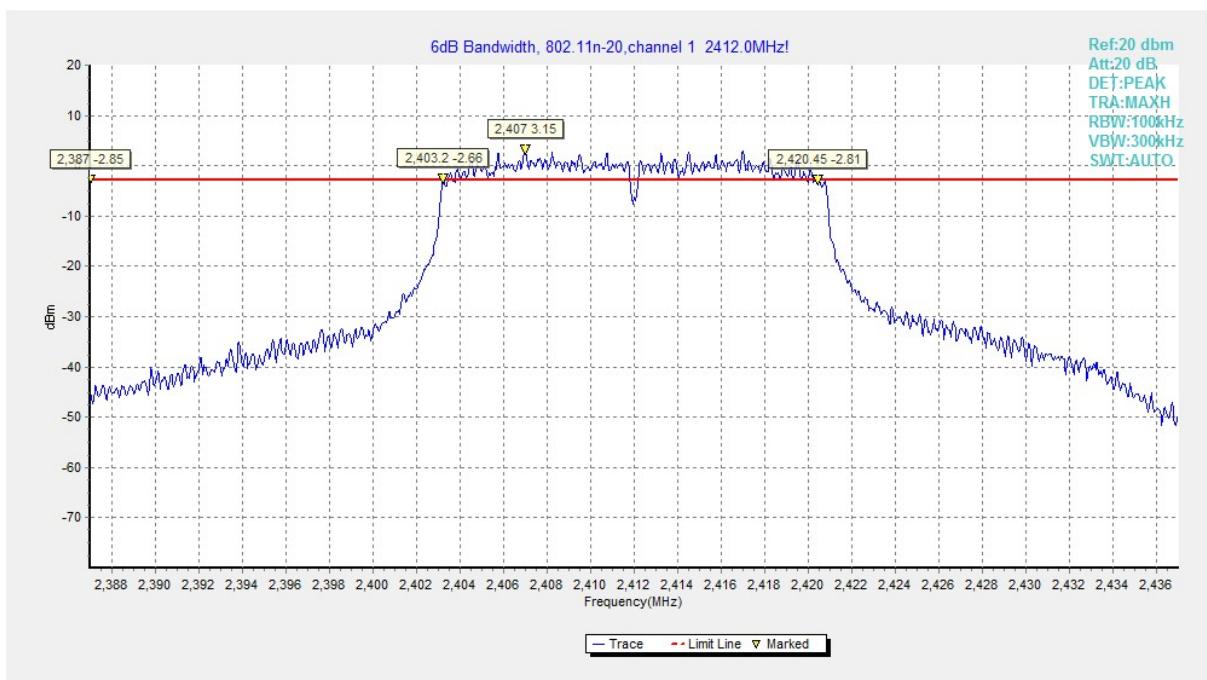
**Fig.A.4.4 Occupied 6dB Bandwidth (802.11g, Ch 1)**



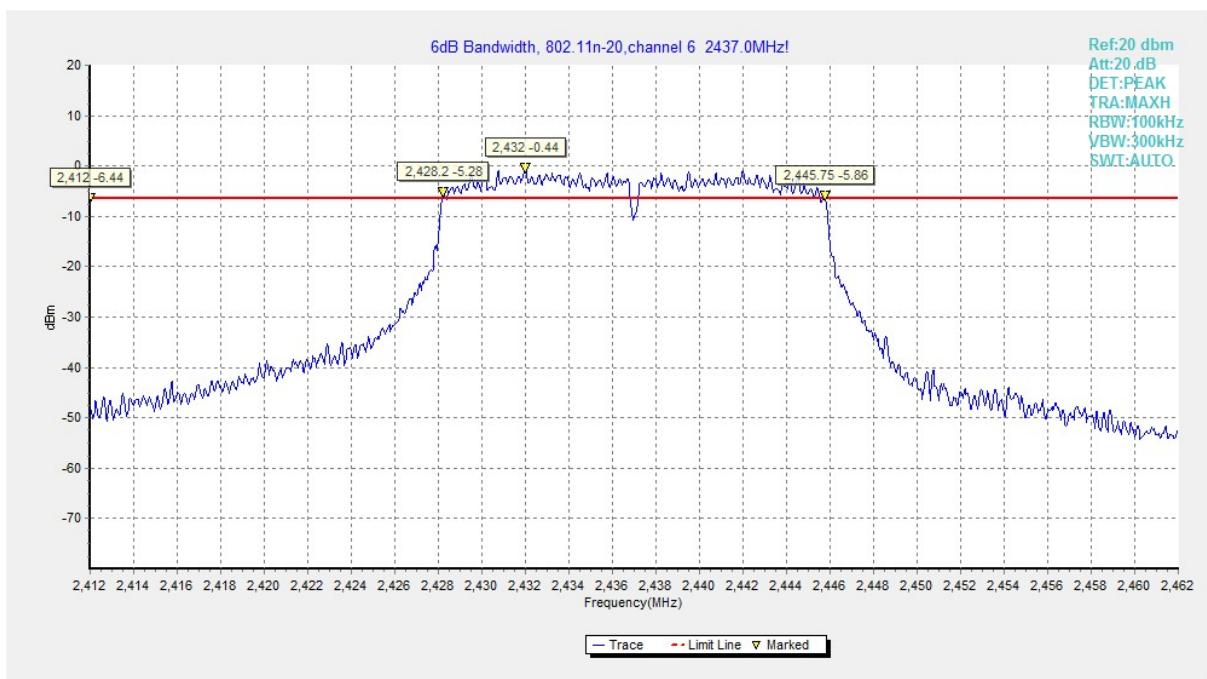
**Fig.A.4.5 Occupied 6dB Bandwidth (802.11g, Ch 6)**



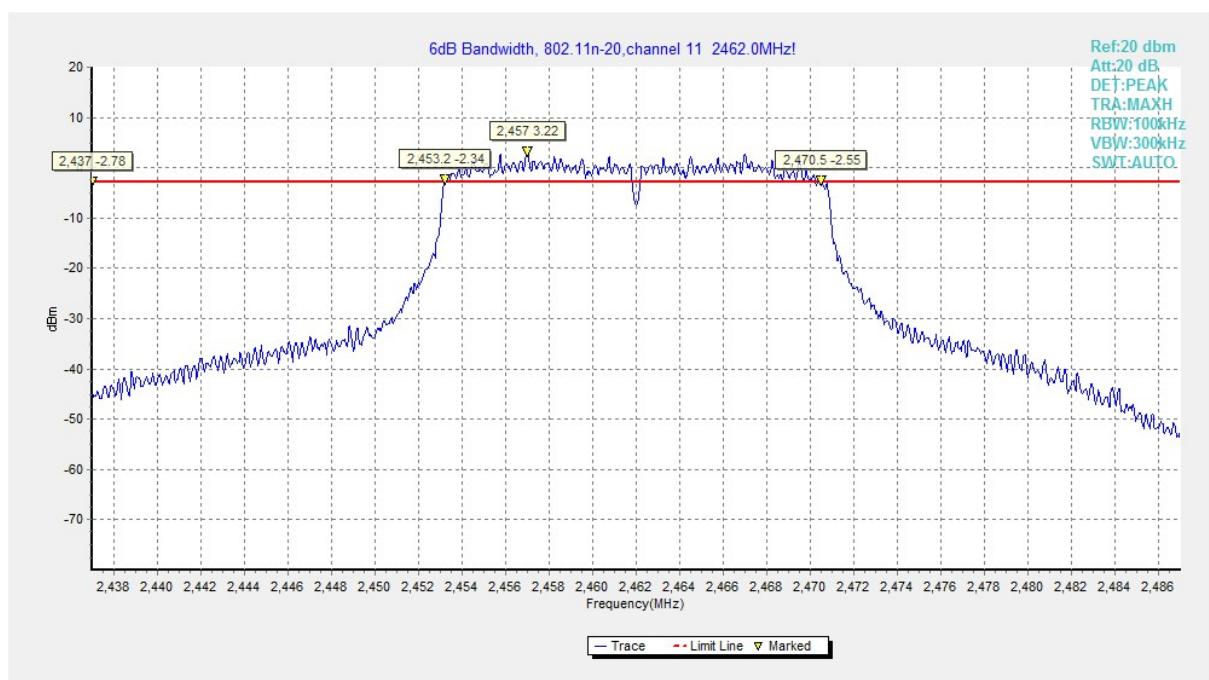
**Fig.A.4.6 Occupied 6dB Bandwidth (802.11g, Ch 11)**



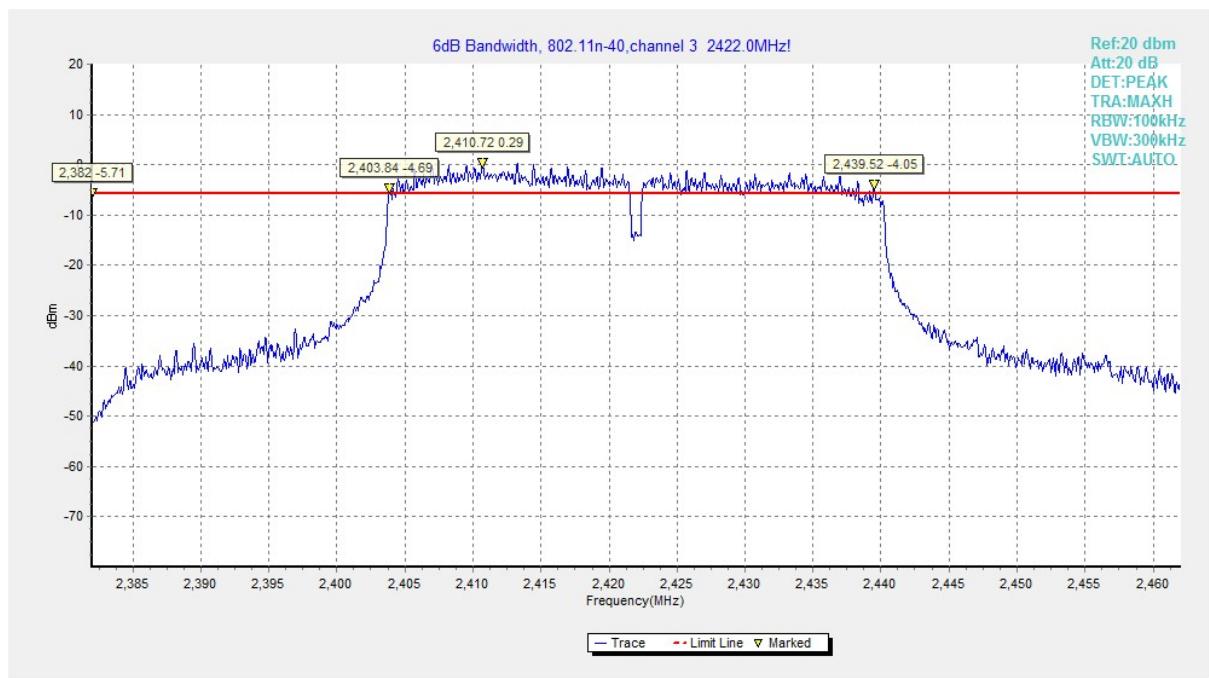
**Fig.A.4.7 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)**



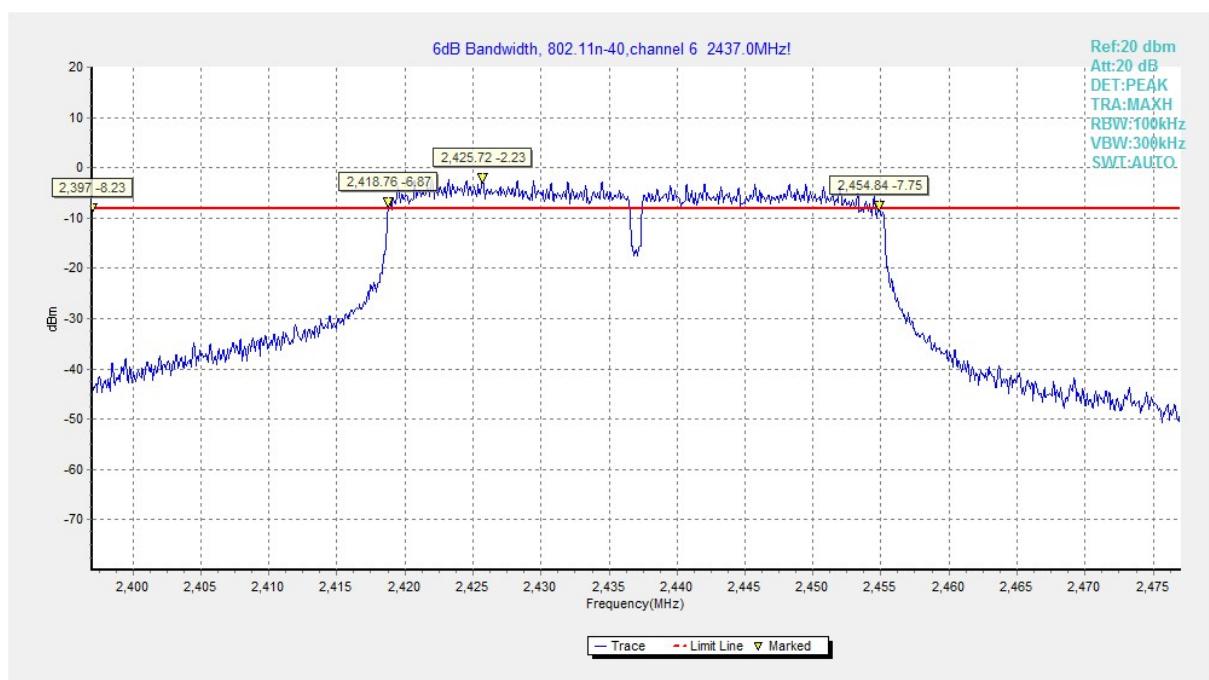
**Fig.A.4.8 Occupied 6dB Bandwidth (802.11n-HT20, Ch 6)**



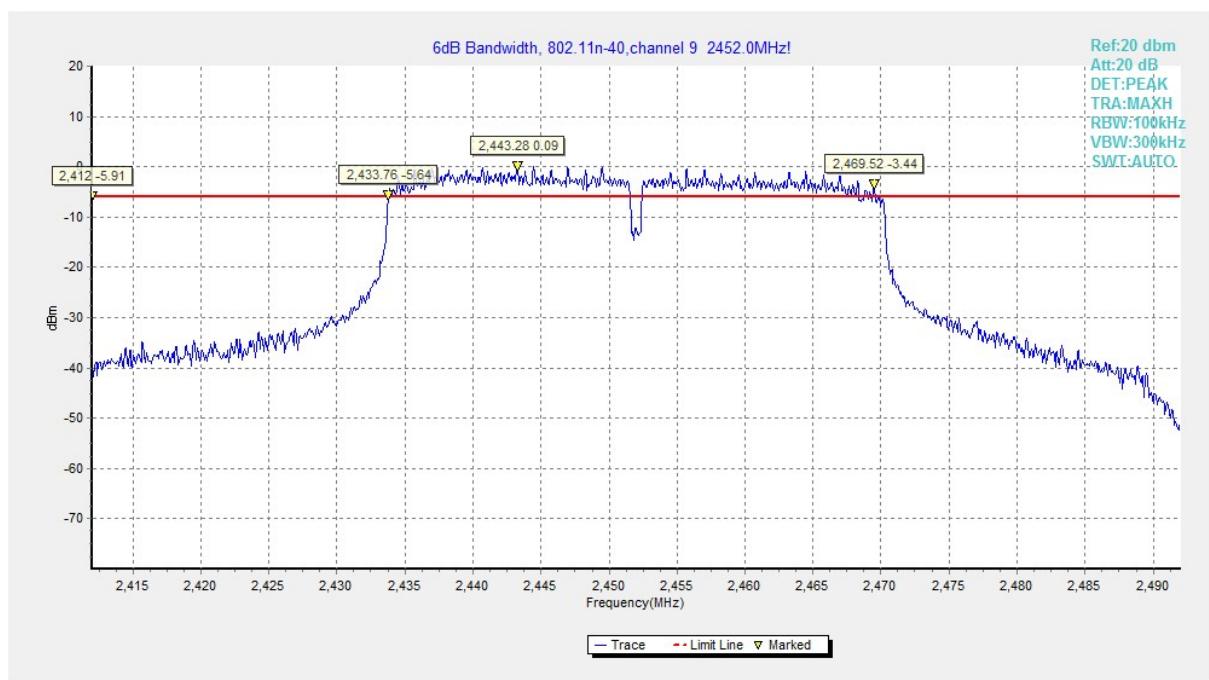
**Fig.A.4.9 Occupied 6dB Bandwidth (802.11n-HT20, Ch 11)**



**Fig.A.4.10 Occupied 6dB Bandwidth (802.11n-HT40, Ch 3)**



**Fig.A.4.11 Occupied 6dB Bandwidth (802.11n-HT40, Ch 6)**



**Fig.A.4.12 Occupied 6dB Bandwidth (802.11n-HT40, Ch 9)**

### A.5. Band Edges Compliance

**Method of Measurement: See ANSI C63.10-2013-clause 6.10.4**

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below.

- a) Set Span = 100MHz
- b) Sweep Time: coupled
- c) Set the RBW= 100 kHz
- c) Set the VBW= 300 kHz
- d) Detector: Peak
- e) Trace: Max hold

**Measurement Limit:**

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

**EUT ID: EUT1**

**Measurement Result:**

#### **802.11b/g mode**

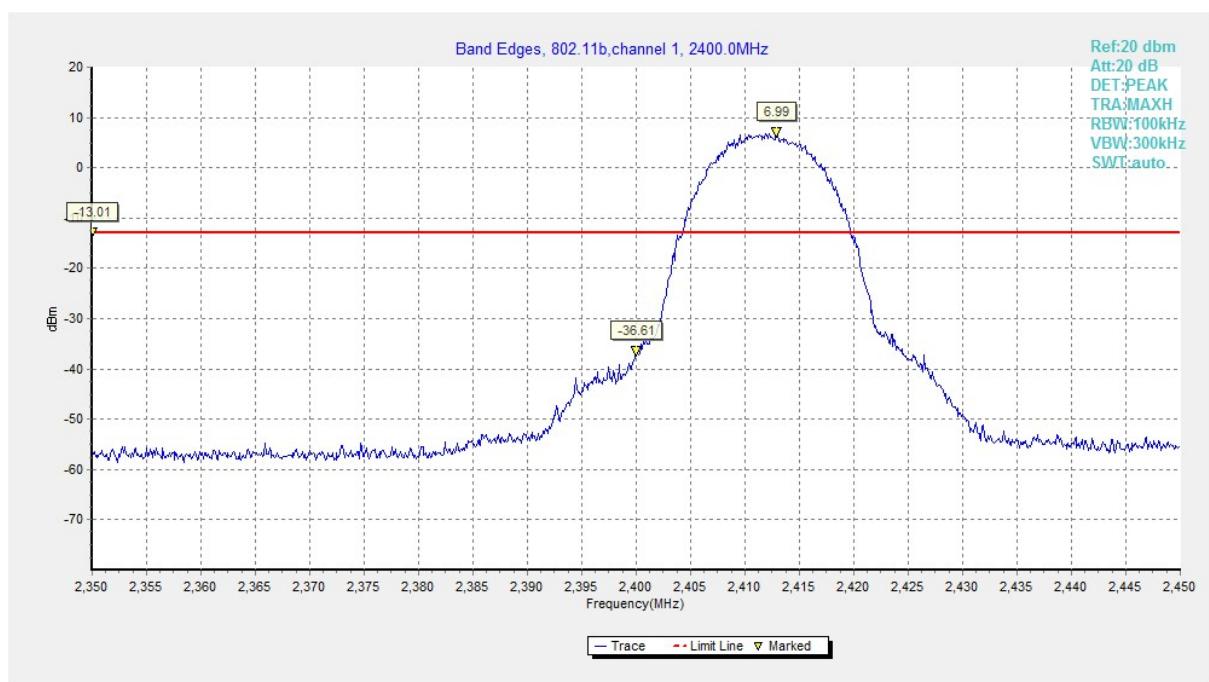
Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.5.1	P
	11	Fig.A.5.2	P
802.11g	1	Fig.A.5.3	P
	11	Fig.A.5.4	P

#### **802.11n-HT20 mode**

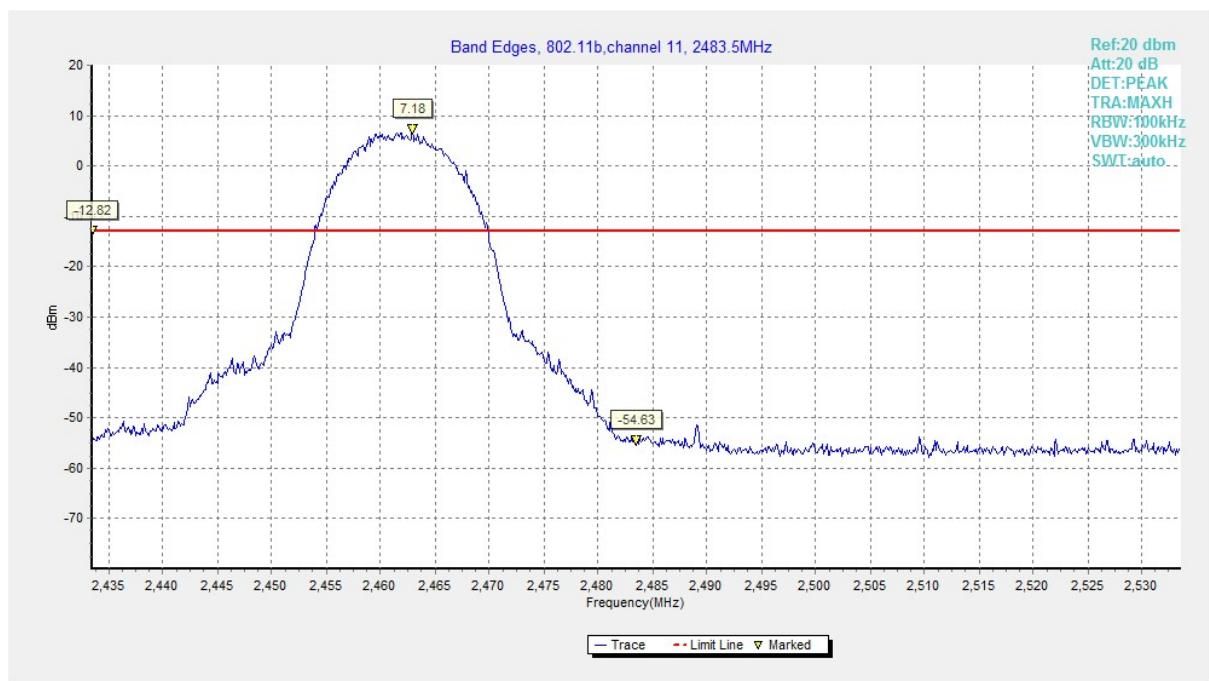
Mode	Channel	Test Results	Conclusion
802.11n (HT20)	1	Fig.A.5.5	P
	11	Fig.A.5.6	P

**Conclusion: Pass**

**Test graphs as below:**



**Fig.A.5.1 Band Edges (802.11b, Ch 1)**



**Fig.A.5.2 Band Edges (802.11b, Ch 11)**