



**FCC PART 15C
TEST REPORT
No.I19Z60337-IOT04**

for
TCL Communication Ltd
LTE/WCDMA/GSM mobile phone

VFD 730

with

FCC ID: 2ACCJH104

Hardware Version: PIO

Software Version: v4JT7

Issued Date: 2019-04-11



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:

CTTL, Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: ctl_terminals@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
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| | | | |

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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(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

Extreme Temperature: -20/+40°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2019-02-25

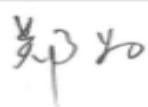
Testing End Date: 2019-04-11

1.5. Signature



Jiang Xue

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Gao Hong

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd
Address: 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052
City: Shenzhen,
Postal Code: 518052
Country: China
Telephone: 0086-755-36611722
Fax: /

2.2. Manufacturer Information

Company Name: TCL Communication Ltd
Address: 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052
City: Shenzhen
Postal Code: 518052
Country: China
Telephone: 0086-755-36611722
Fax: /

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

3.1. About EUT

| | |
|---------------------|----------------------------|
| Description | LTE/WCDMA/GSM mobile phone |
| Model name | VFD 730 |
| FCC ID | 2ACCJH104 |
| IC ID | / |
| 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 | 24.34dBm |
| Power Supply | 3.8V DC by Battery |

3.2. Internal Identification of EUT

| EUT ID* | SN or IMEI | HW Version | SW Version |
|---------|-------------------------------------|------------|------------|
| EUT1 | 354780100206258/ 354780100206266 | PIO | v4JT7 |
| EUT2 | 354780100207124 | PIO | v4JT7 |

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

3.3. Internal Identification of AE

| AE ID* | Description | SN |
|--------|-----------------|--------------|
| AE1 | Battery | / |
| AE2 | Charger | / |
| AE3 | Charger | / |
| AE1 | Model | CAC3400011C1 |
| | Manufacturer | BYD |
| | Capacitance | 3500 mAh |
| | Nominal voltage | 3.85 V |
| AE2 | Model | CBA0058AAVC5 |
| | Manufacturer | PUAN |
| | Length of cable | / |
| AE3 | Model | CBA0058AAVC1 |
| | Manufacturer | BYD |
| | 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 LTE/WCDMA/GSM mobile phone 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 feature information is supplied by the applicant 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. | 2016 |
| ANSI C63.10 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 2013 |

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 CTLL |
| 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 CTLL 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 | 3.8 V(By battery) |
| 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 | 2019-05-17 |
| 2 | LISN | ENV216 | 101200 | Rohde & Schwarz | 1 year | 2019-04-15 |
| 3 | Test Receiver | ESCI | 100344 | Rohde & Schwarz | 1 year | 2020-02-14 |
| 4 | Shielding Room | S81 | / | ETS-Lindgren | / | / |

Radiated emission test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Period | Calibration Due date |
|-----|-----------------------------------|----------|----------------|------------------|--------------------|----------------------|
| 1 | Test Receiver | ESU26 | 100376 | Rohde & Schwarz | 1 year | 2019-06-04 |
| 2 | Loop antenna | HFH2-Z2 | 829324/007 | Rohde & Schwarz | 1 year | 2019-12-03 |
| 3 | BiLog Antenna | VULB9163 | 514 | Schwarzbeck | 3 years | 2021-02-03 |
| 4 | Dual-Ridge Waveguide Horn Antenna | 3117 | 00139065 | ETS-Lindgren | 1 year | 2019-10-15 |
| 5 | Dual-Ridge Waveguide Horn Antenna | 3116 | 2661 | ETS-Lindgren | 1 year | 2019-11-15 |
| 6 | Vector Signal Analyzer | FSV | 101047 | Rohde & Schwarz | 1 year | 2019-06-27 |
| 7 | Semi-anechoic chamber | / | CT000332-1 074 | Frankonia German | / | / |

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 : 3.08dB,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

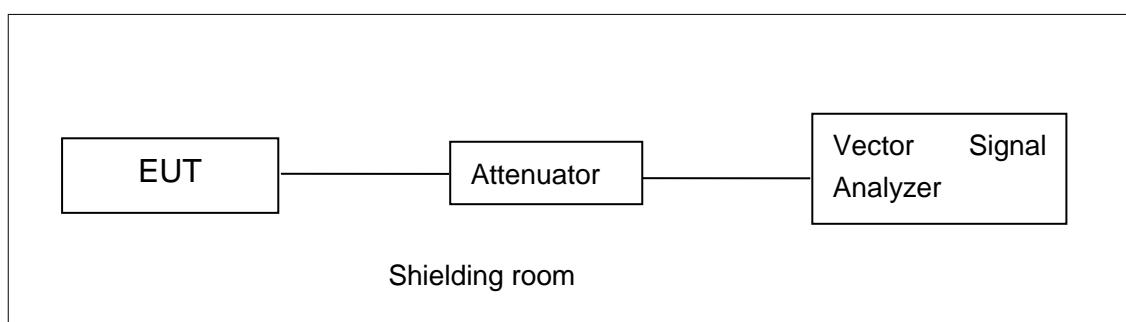


Fig.A.1.1.1: Test Setup Diagram for Conducted Measurements

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;

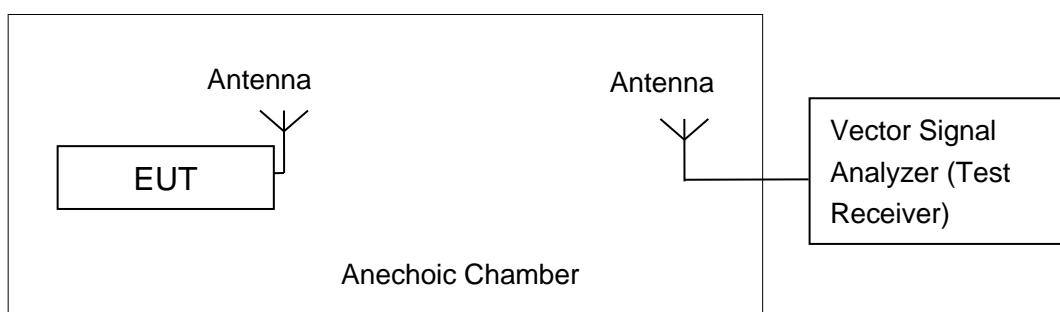


Fig.A.1.2.1: Test Setup Diagram for Radiated Measurements

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: EUT2

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 | 21.02 | / | / |
| | 2 | 21.18 | / | / |
| | 5.5 | 22.62 | / | / |
| | 11 | 24.12 | 24.08 | 24.01 |
| 802.11g | 6 | 23.93 | / | / |
| | 9 | 23.92 | / | / |
| | 12 | 23.70 | / | / |
| | 18 | 23.74 | / | / |
| | 24 | 24.26 | / | / |
| | 36 | 24.18 | / | / |
| | 48 | 24.34 | 24.10 | 24.15 |
| | 54 | 24.26 | / | / |

The data rate 11Mbps and 48Mbps 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 | 21.94 | / | / |
| | MCS1 | 21.82 | / | / |
| | MCS2 | 21.76 | / | / |
| | MCS3 | 22.23 | / | / |
| | MCS4 | 22.22 | / | / |
| | MCS5 | 22.34 | 22.10 | 22.16 |
| | MCS6 | 22.32 | / | / |
| | MCS7 | 22.33 | / | / |

The data rate MCS5 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

| Mode | Data Rate (Index) | Test Result (dBm) | | |
|--------------------|----------------------|-------------------|------------------|-------------------|
| | | 2422MHz (Ch3) | 2437MHz (Ch6) | 2452 MHz (Ch9) |
| 802.11n (40MHz) | MCS0 | 20.59 | / | / |
| | MCS1 | 20.43 | / | / |
| | MCS2 | 20.48 | / | / |
| | MCS3 | 20.92 | / | / |
| | MCS4 | 20.88 | / | / |
| | MCS5 | 20.96 | 21.04 | 20.94 |
| | MCS6 | 20.88 | / | / |
| | MCS7 | 20.95 | / | / |

The data rate MCS5 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: Pass
A.2.2. Average Output Power-conducted
Method of Measurement: See ANSI C63.10-2013-clause 11.9.2.2.2

The procedure for this method is as follows:

- Set span = 1.5OBW.
- Set RBW = 1MHz.
- Set VBW = 3MHz
- Number of points in sweep = 625
- Sweep time = auto.
- Detector = RMS.
- If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFFintervals) or at duty

cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

h) Trace average 100 traces in power averaging (rms) mode.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

802.11b/g mode

| Mode | Test Result (dBm) | | |
|---------|-------------------|---------------|-----------------|
| | 2412MHz (Ch1) | 2437MHz (Ch6) | 2462 MHz (Ch11) |
| 802.11b | 19.40 | 18.71 | 18.84 |
| 802.11g | 16.98 | 16.50 | 16.52 |

802.11n-HT20 mode

| Mode | Test Result (dBm) | | |
|-----------------|-------------------|---------------|-----------------|
| | 2412MHz (Ch1) | 2437MHz (Ch6) | 2462 MHz (Ch11) |
| 802.11n (20MHz) | 15.13 | 14.52 | 14.66 |

802.11n-HT40 mode

| Mode | Test Result (dBm) | | |
|----------------|-------------------|---------------|----------------|
| | 2422MHz (Ch3) | 2437MHz (Ch6) | 2452 MHz (Ch9) |
| 802.11n(40MHz) | 14.94 | 14.61 | 14.03 |

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 | -5.49 | P |
| | 6 | Fig.A.3.2 | -5.49 | P |
| | 11 | Fig.A.3.3 | -5.58 | P |
| 802.11g | 1 | Fig.A.3.4 | -9.42 | P |
| | 6 | Fig.A.3.5 | -10.09 | P |
| | 11 | Fig.A.3.6 | -9.79 | P |

802.11n-HT20 mode

| Mode | Channel | Power Spectral Density (dBm/3 kHz) | | Conclusion |
|-------------------|---------|---|--------|------------|
| 802.11n (HT20) | 1 | Fig.A.3.7 | -11.51 | P |
| | 6 | Fig.A.3.8 | -11.16 | P |
| | 11 | Fig.A.3.9 | -11.38 | P |

802.11n-HT40 mode

| Mode | Channel | Power Spectral Density (dBm/3 kHz) | | Conclusion |
|-------------------|---------|---|--------|------------|
| 802.11n (HT40) | 3 | Fig.A.3.10 | -16.18 | P |
| | 6 | Fig.A.3.11 | -15.47 | P |
| | 9 | Fig.A.3.12 | -16.23 | P |

Conclusion: Pass

Test graphs as below:

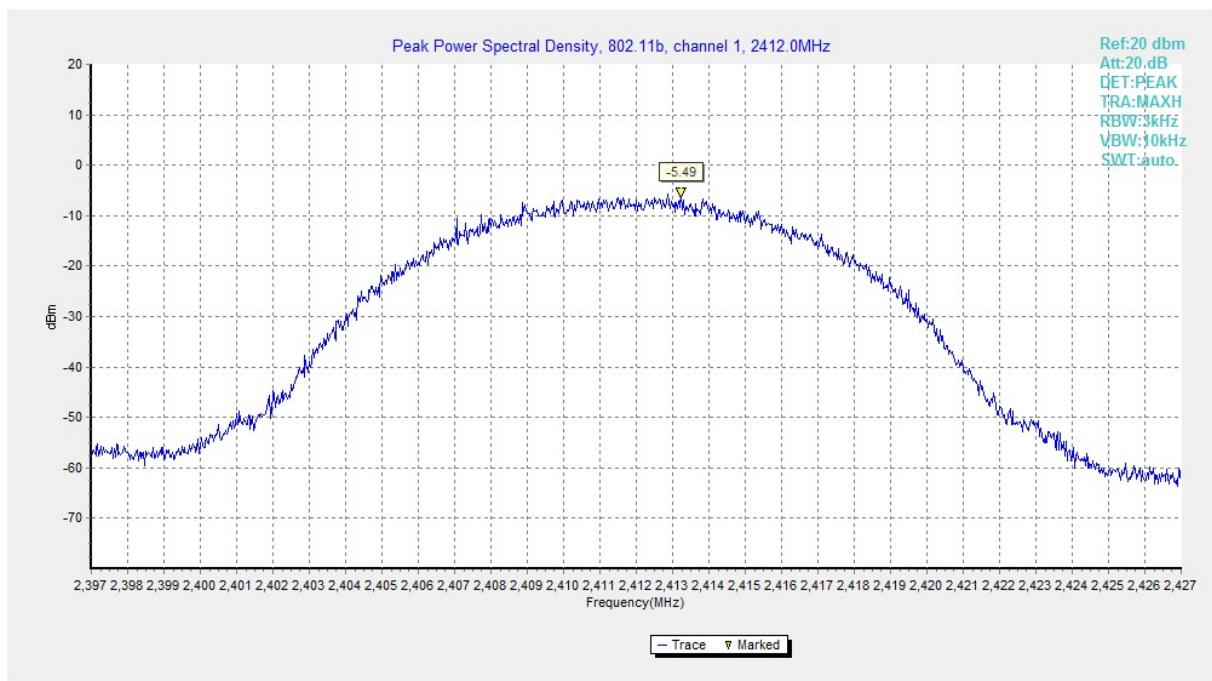


Fig.A.3.1 Power Spectral Density(802.11b,Ch1)

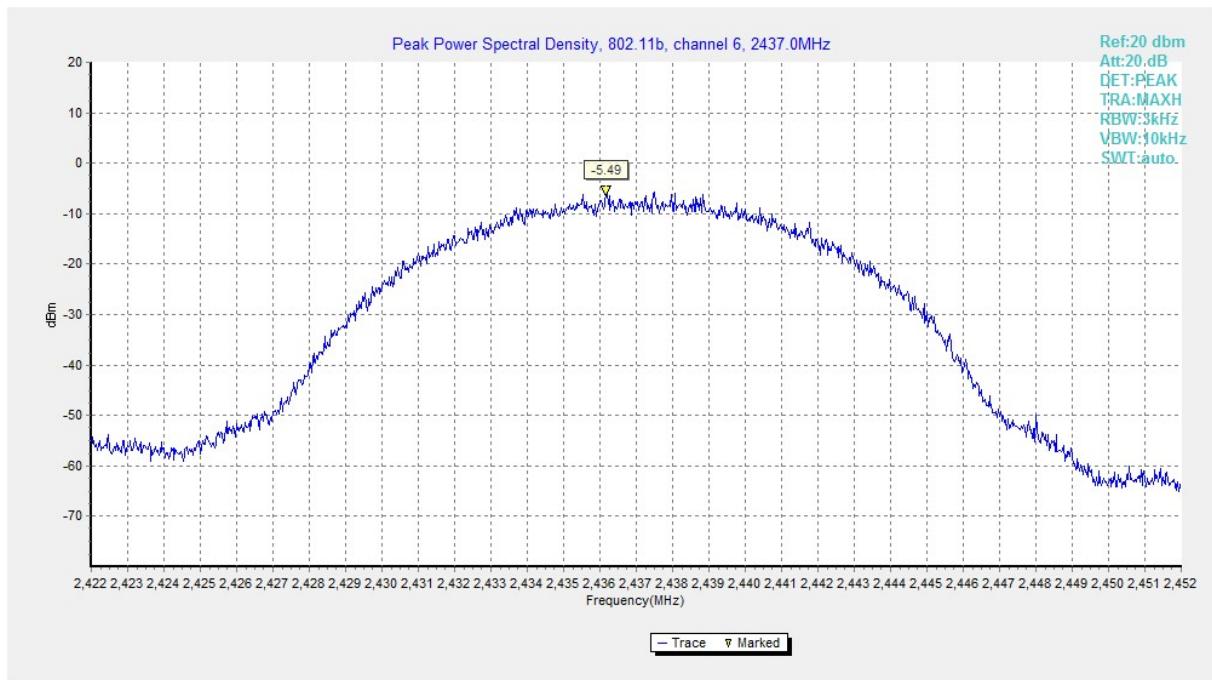


Fig.A.3.2 Power Spectral Density (802.11b, Ch 6)

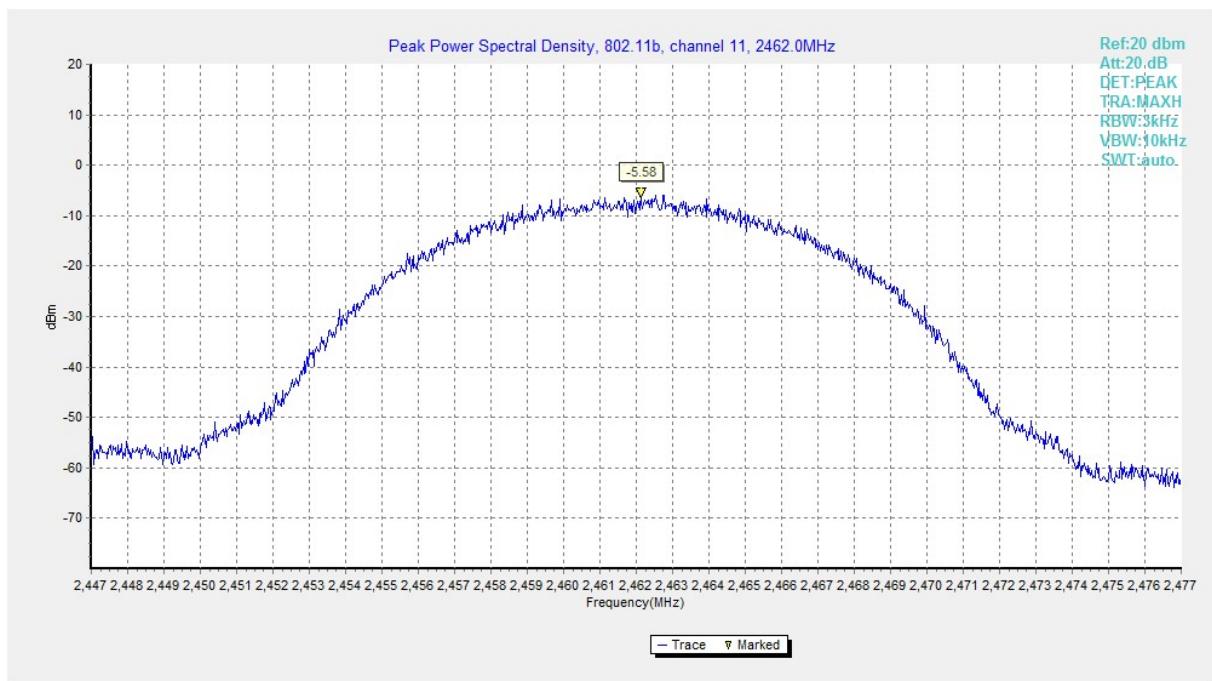


Fig.A.3.3 Power Spectral Density (802.11b, Ch 11)

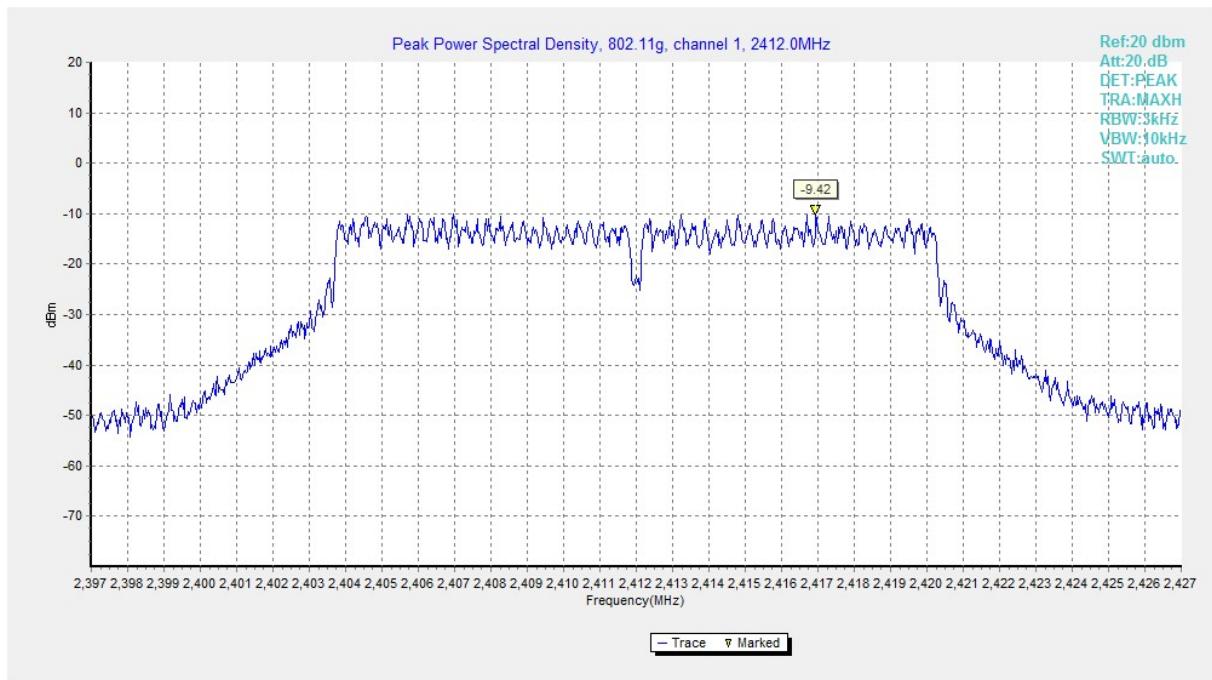
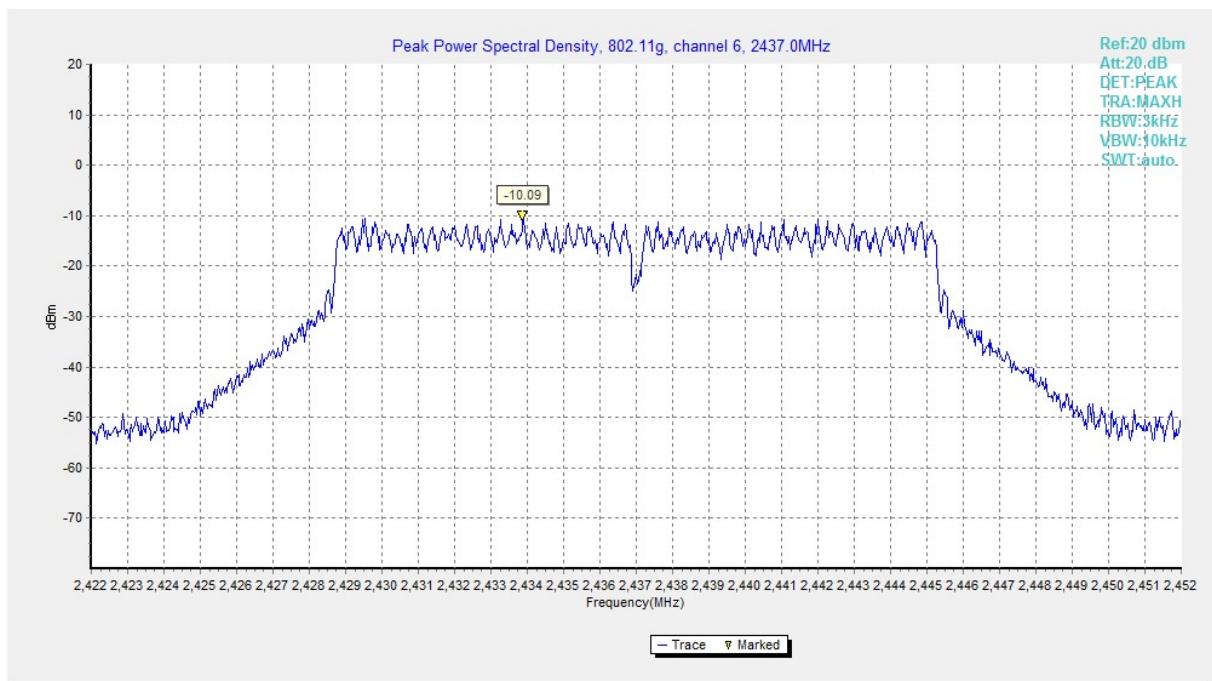
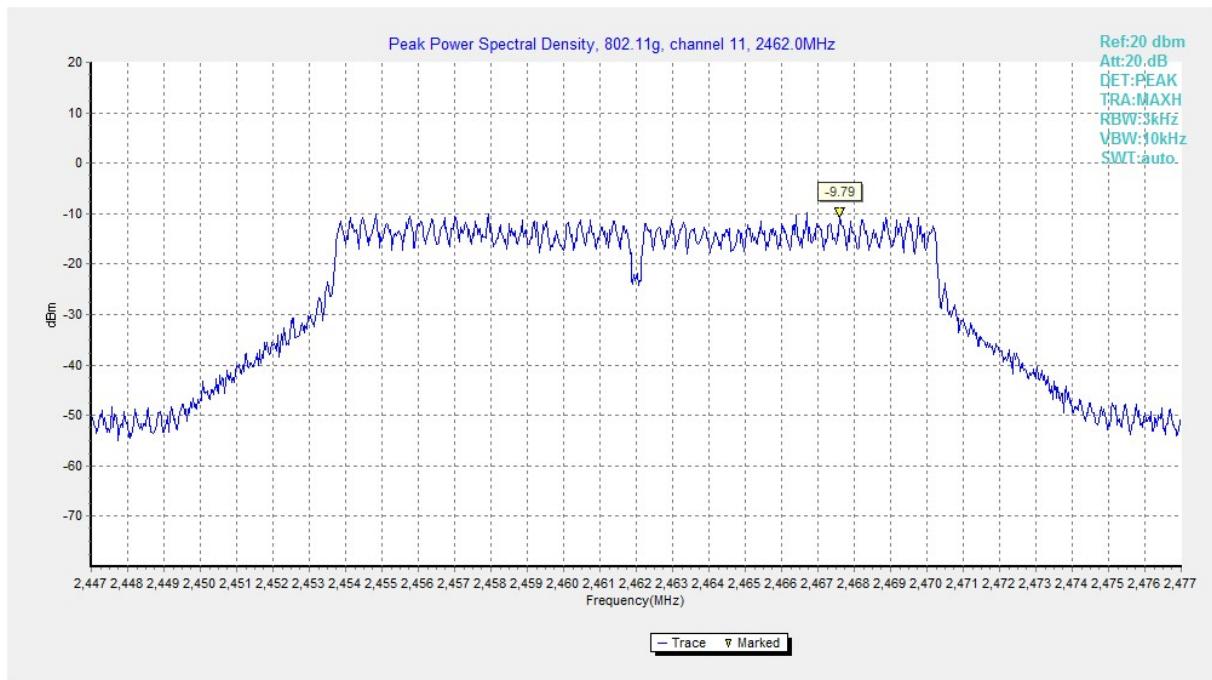
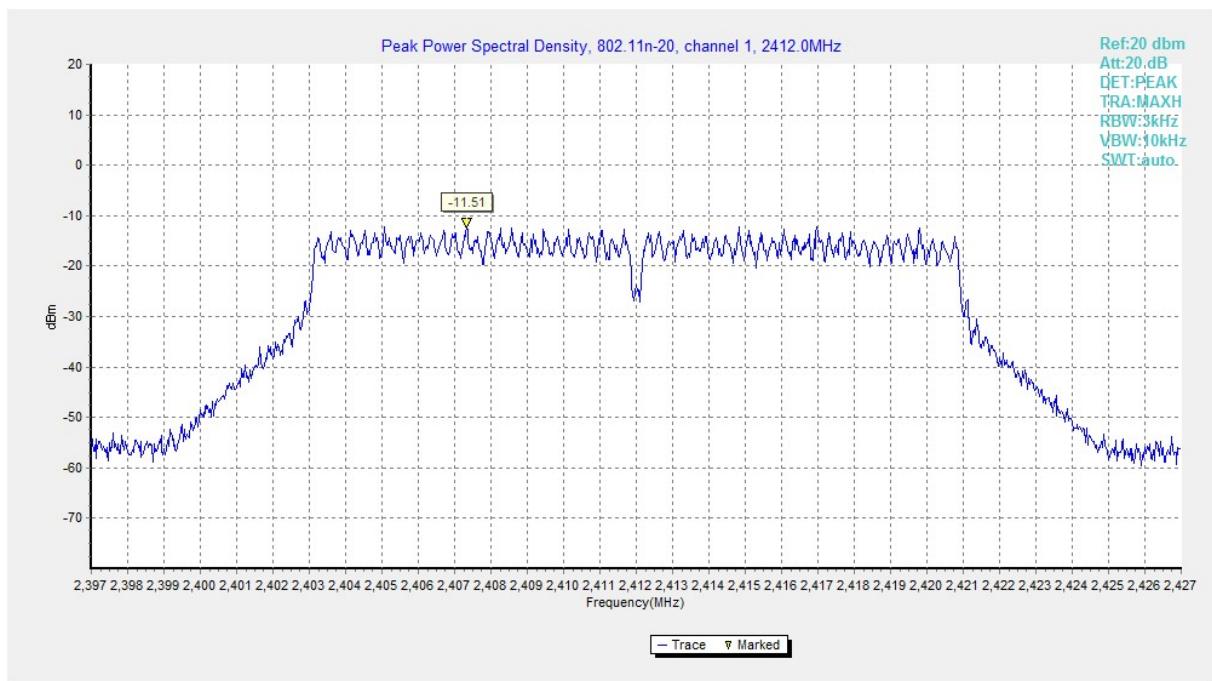
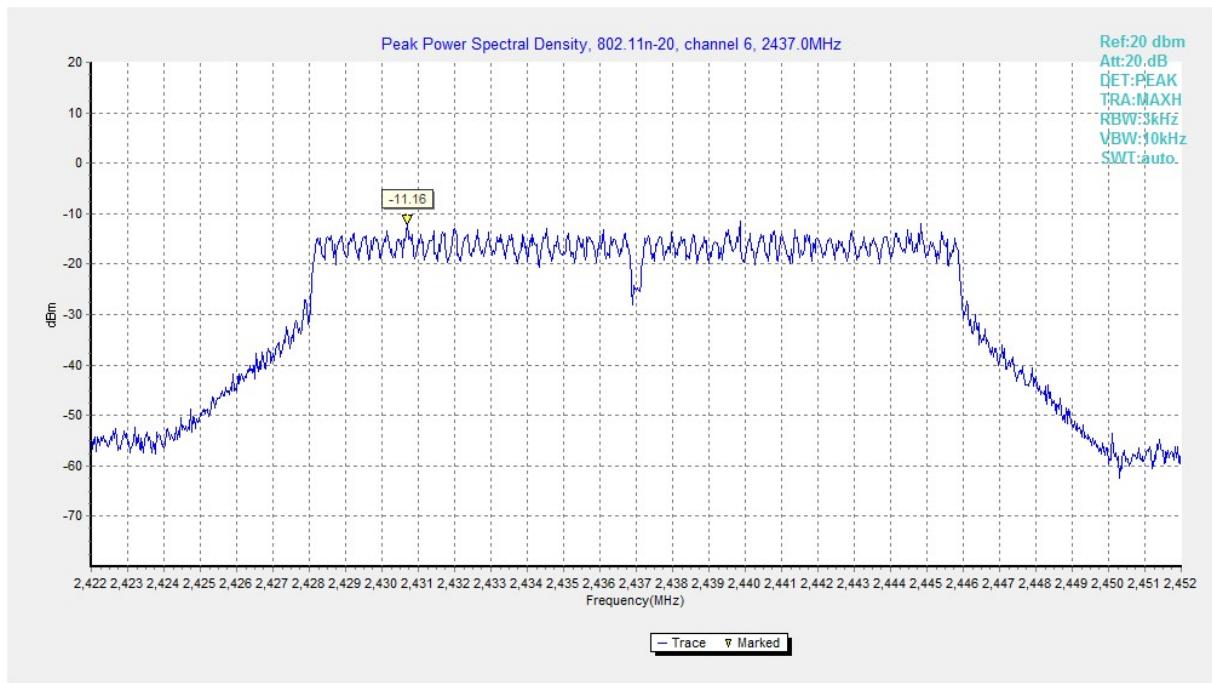


Fig.A.3.4 Power Spectral Density (802.11g, Ch 1)


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)

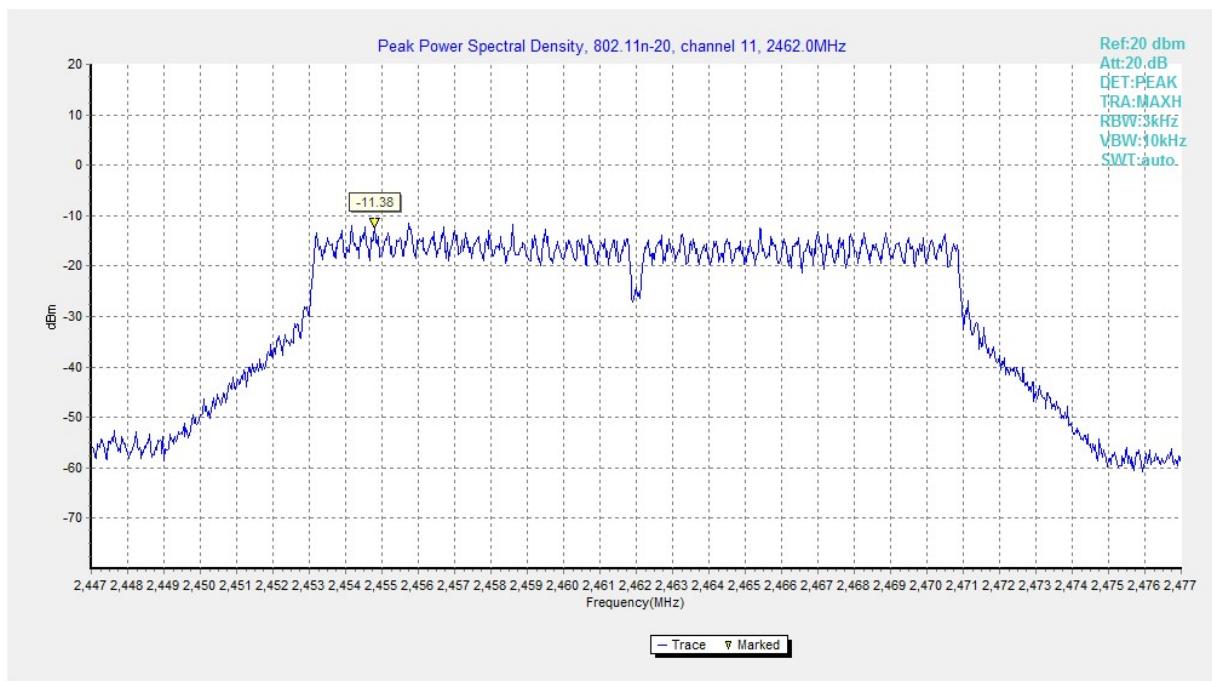


Fig.A.3.9 Power Spectral Density (802.11n-HT20, Ch 11)

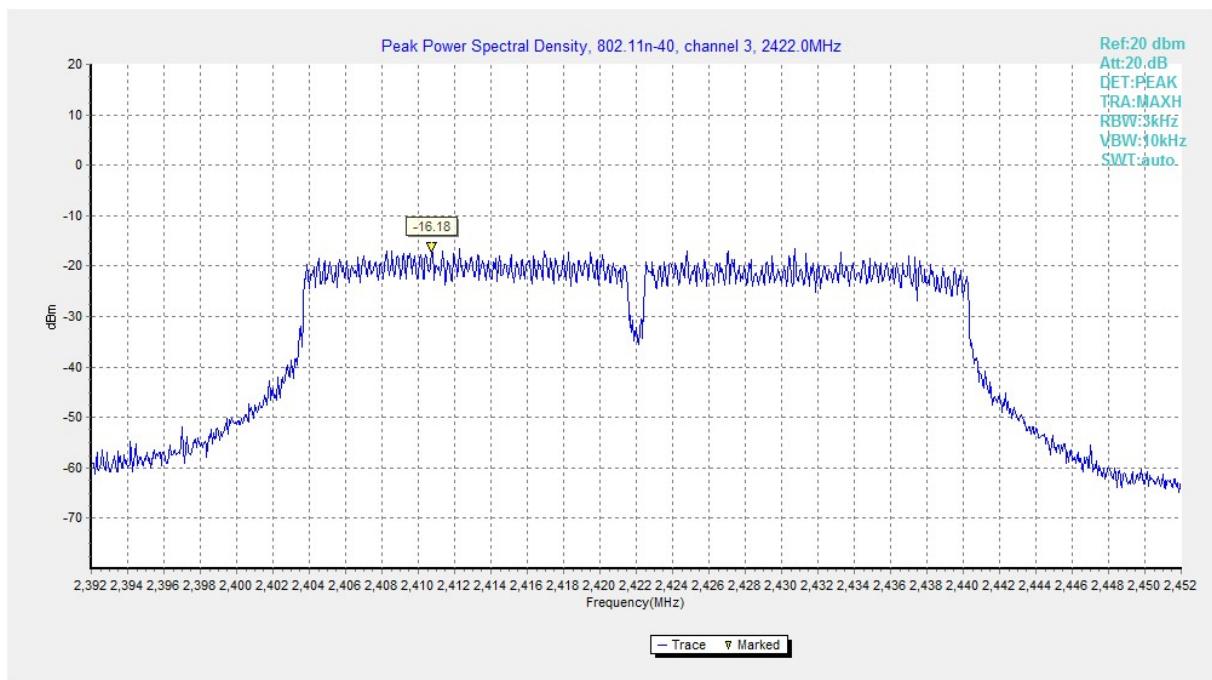
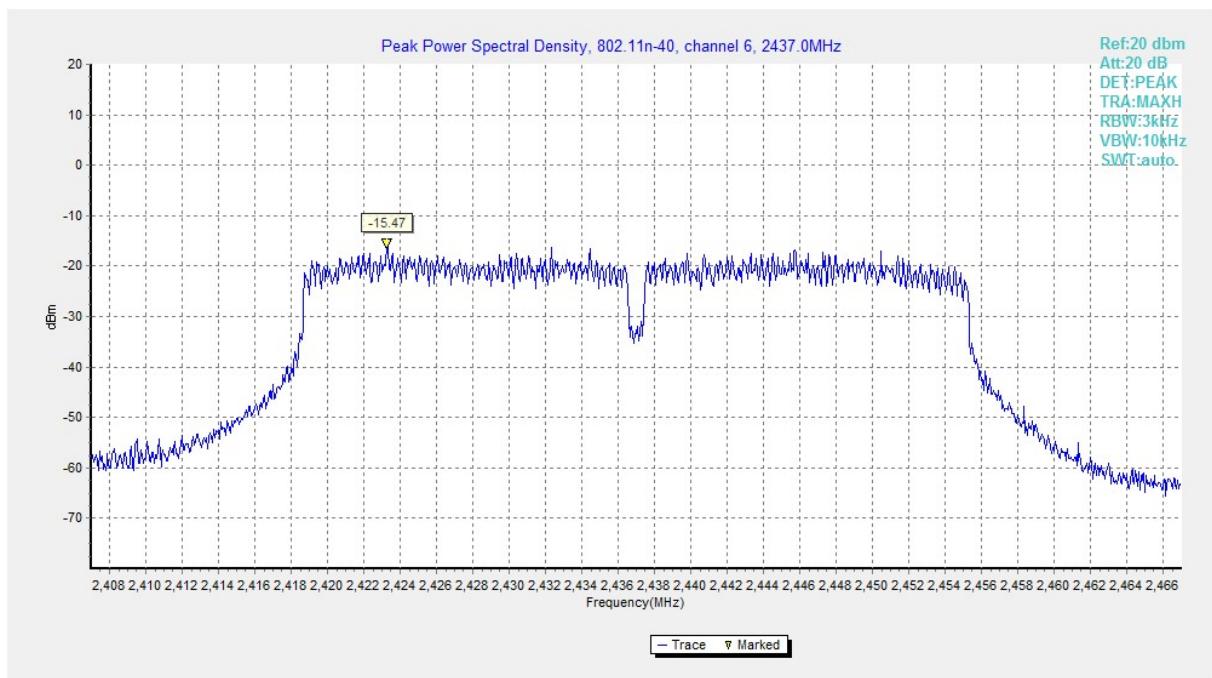
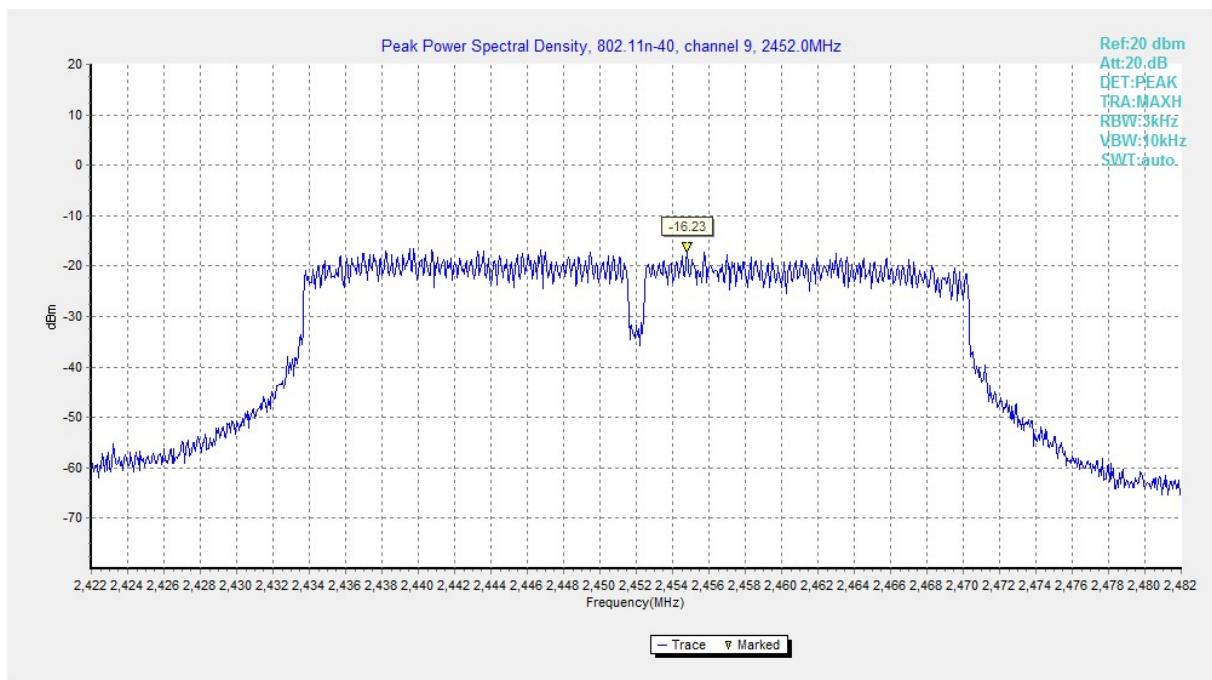


Fig.A.3.10 Power Spectral Density (802.11n-HT40, Ch 3)


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: EUT2

Measurement Result:

802.11b/g mode

| Mode | Channel | Occupied 6dB Bandwidth (MHz) | | Conclusion |
|---------|---------|------------------------------|-------|------------|
| 802.11b | 1 | Fig.A.4.1 | 8.45 | P |
| | 6 | Fig.A.4.2 | 8.40 | P |
| | 11 | Fig.A.4.3 | 8.00 | P |
| 802.11g | 1 | Fig.A.4.4 | 16.50 | P |
| | 6 | Fig.A.4.5 | 16.50 | P |
| | 11 | Fig.A.4.6 | 16.50 | P |

802.11n-HT20 mode

| Mode | Channel | Occupied 6dB Bandwidth (MHz) | | Conclusion |
|----------------|---------|------------------------------|-------|------------|
| 802.11n (HT20) | 1 | Fig.A.4.7 | 17.70 | P |
| | 6 | Fig.A.4.8 | 17.70 | P |
| | 11 | Fig.A.4.9 | 17.70 | P |

802.11n-HT40 mode

| Mode | Channel | Occupied 6dB Bandwidth (MHz) | | Conclusion |
|----------------|---------|------------------------------|-------|------------|
| 802.11n (HT40) | 3 | Fig.A.4.10 | 35.76 | P |
| | 6 | Fig.A.4.11 | 36.00 | P |
| | 9 | Fig.A.4.12 | 35.76 | P |

Conclusion: Pass

Test graphs as below:

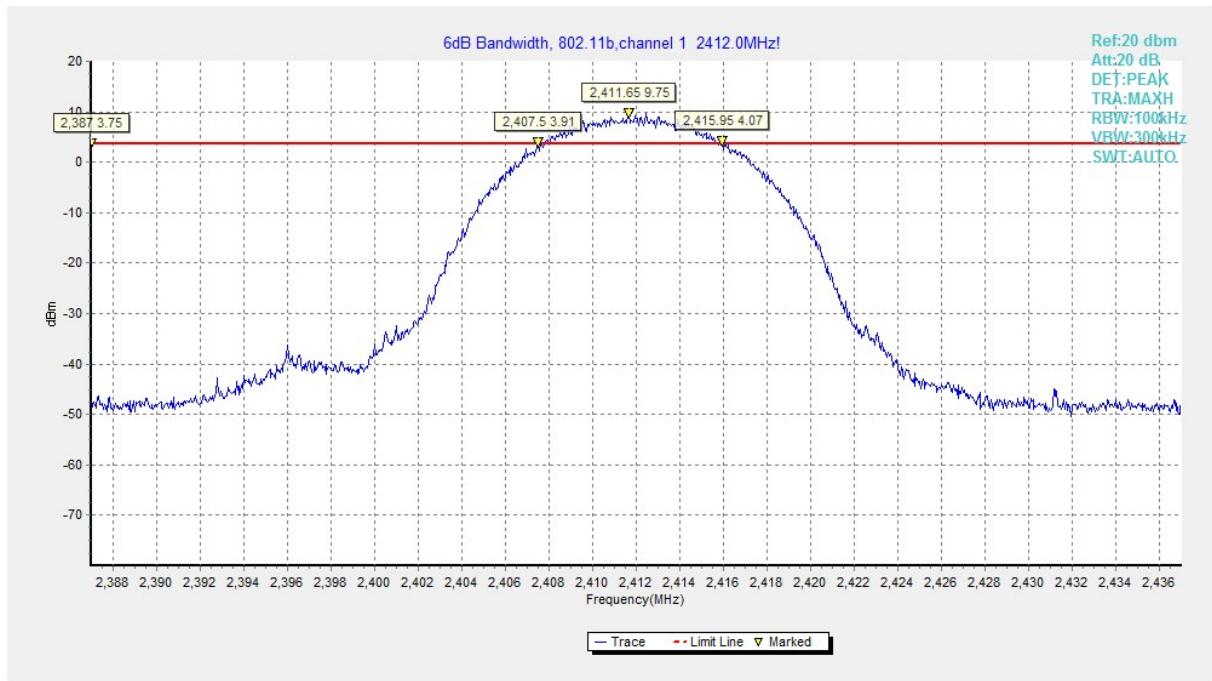


Fig.A.4.1 Occupied 6dB Bandwidth(802.11b,Ch 1)

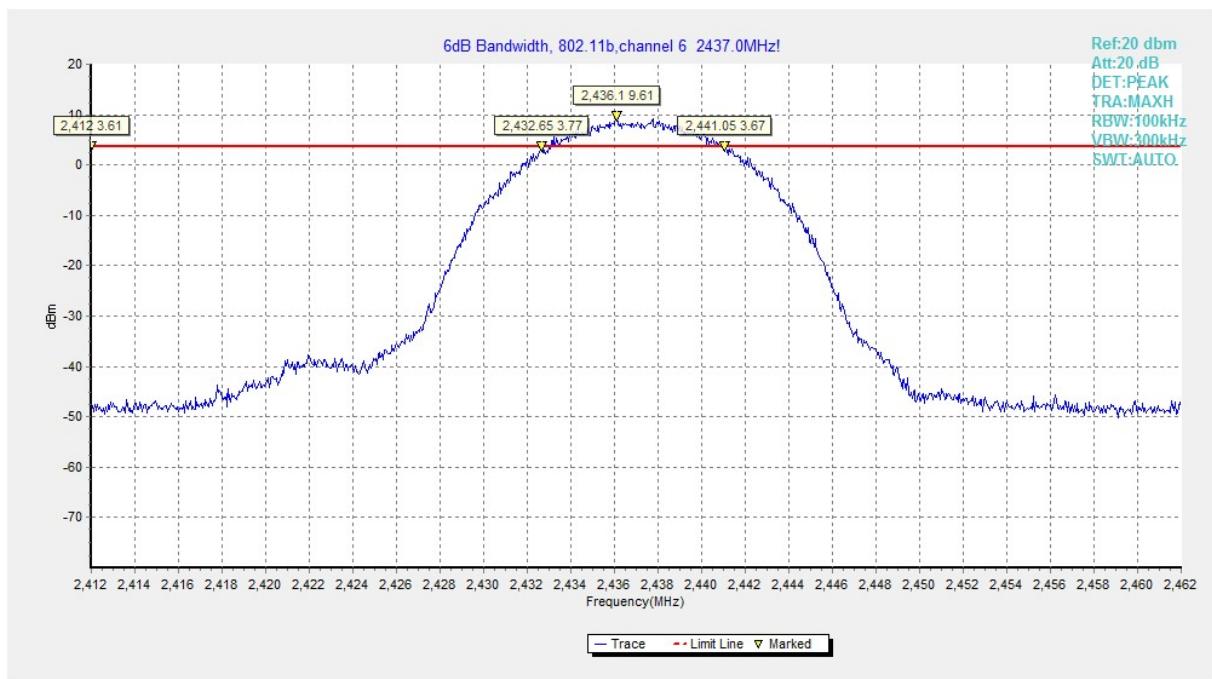
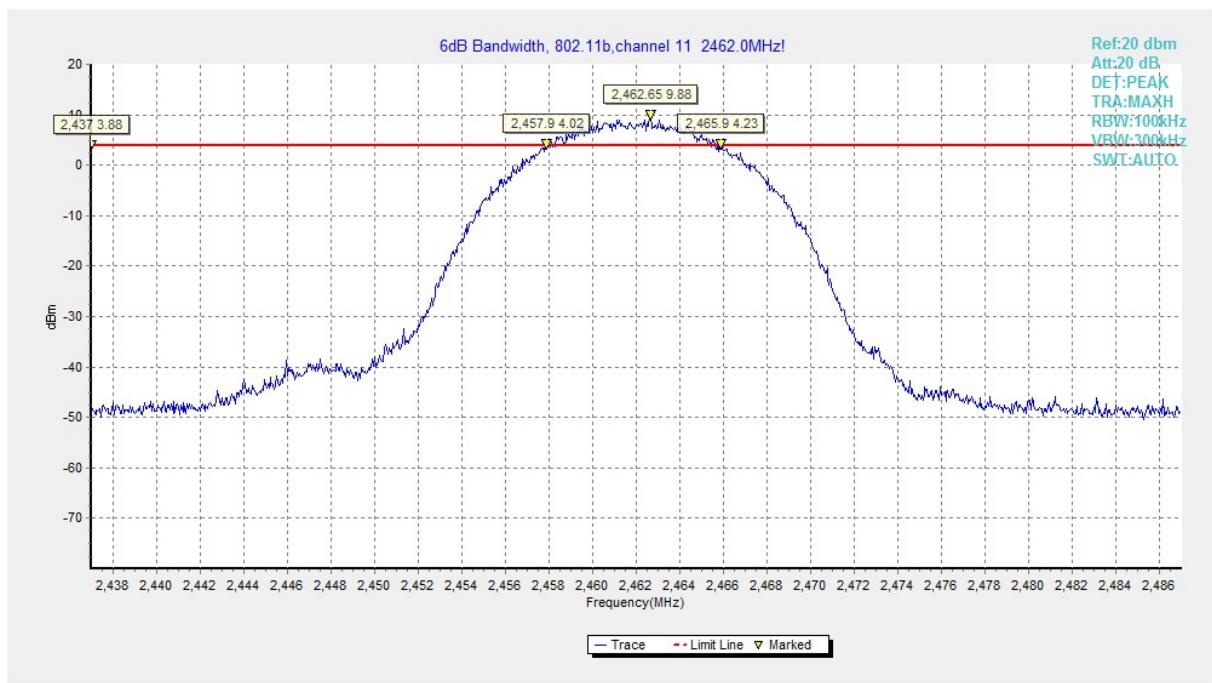
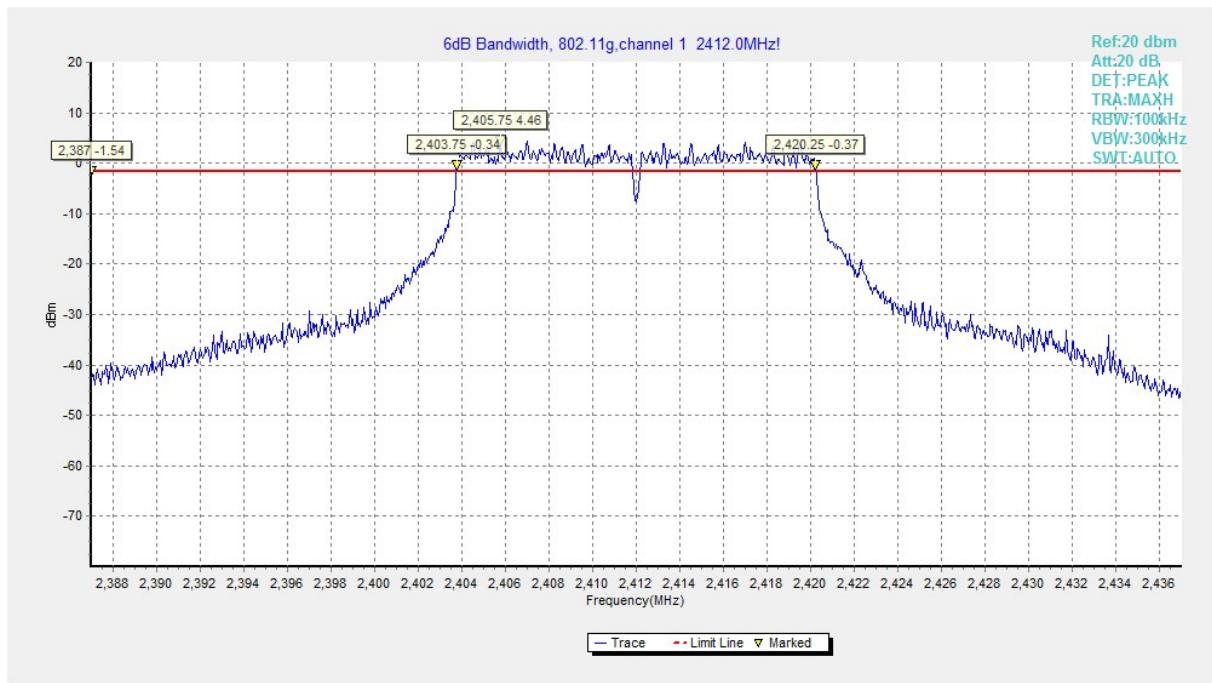


Fig.A.4.2 Occupied 6dB Bandwidth (802.11b, Ch 6)


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

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

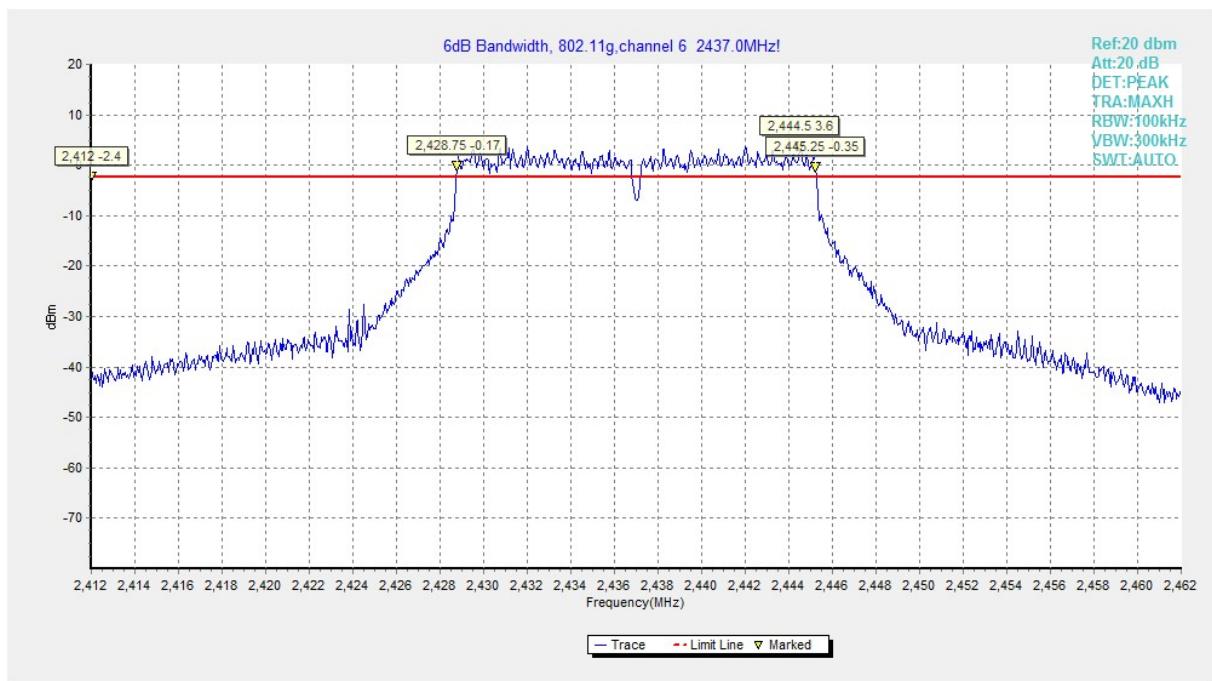


Fig.A.4.5 Occupied 6dB Bandwidth (802.11g, Ch 6)

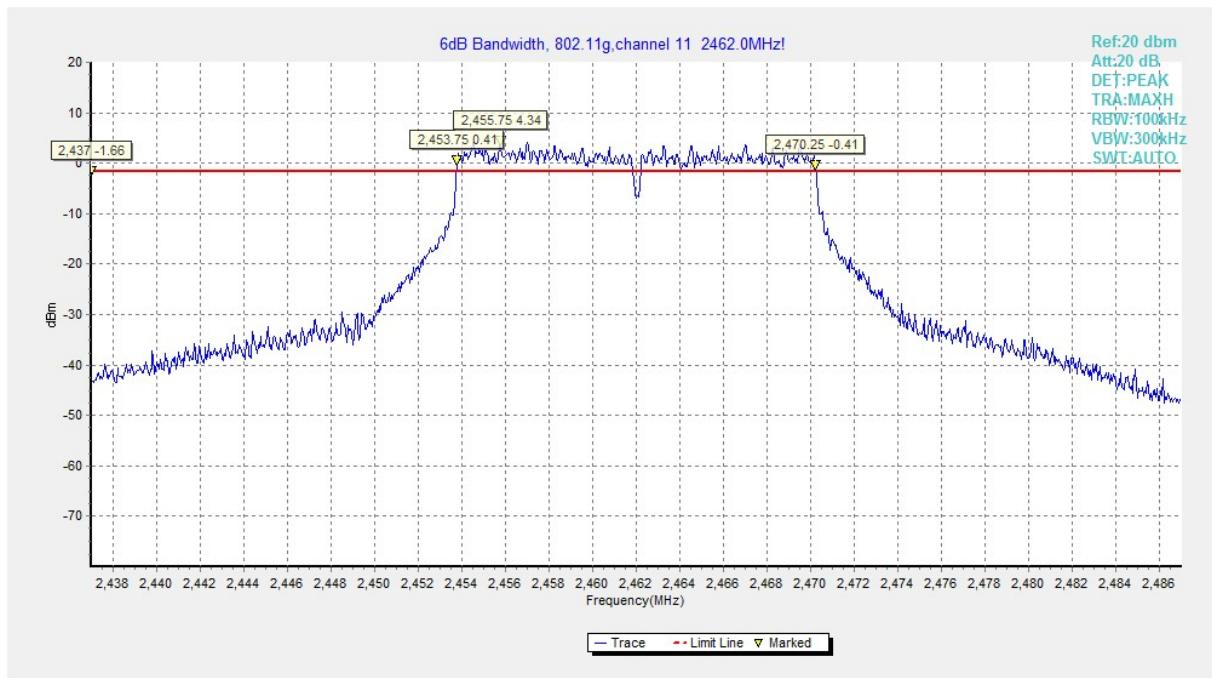


Fig.A.4.6 Occupied 6dB Bandwidth (802.11g, Ch 11)

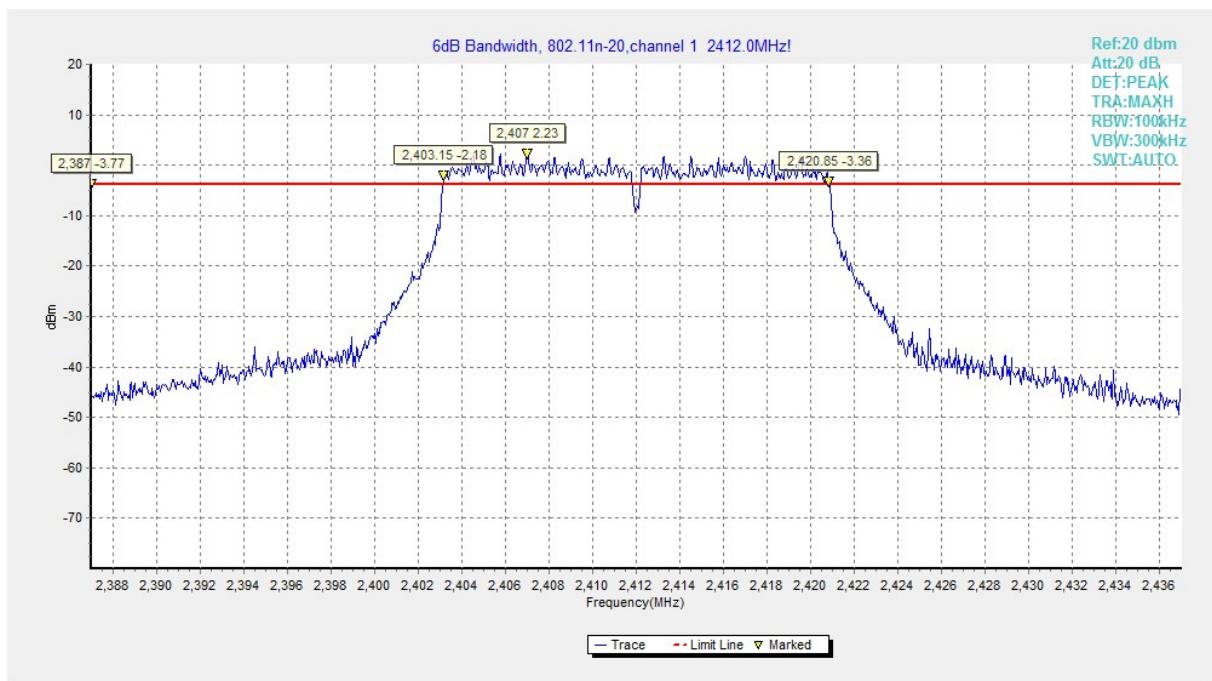


Fig.A.4.7 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)

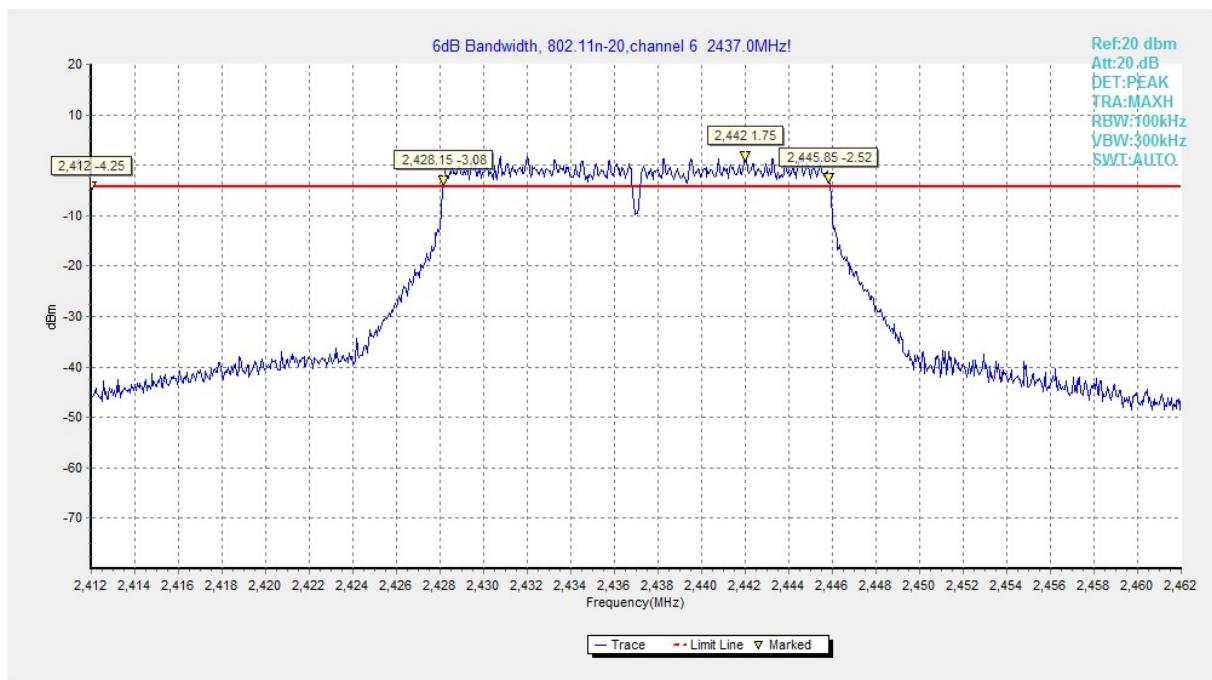


Fig.A.4.8 Occupied 6dB Bandwidth (802.11n-HT20, Ch 6)