



# KSIGN (Guangdong) Testing Co., Ltd.

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## TEST REPORT

**Report No.** .....: **KS2102S00365E01**

**FCC ID**.....: **2AM8GCHAMELEONH**

**Applicant**.....: **GUANGZHOU LIE DUN ELECTRONICS TECHNOLOGY CO. LIMITED**

**Address**.....: No.4 plant of No.43 South International Trade Avenue,Hualong  
Town,Panyu District,Guangzhou,Guangdong,China

**Manufacturer**.....: **GUANGZHOU LIE DUN ELECTRONICS TECHNOLOGY CO. LIMITED**

**Address**.....: No.4 plant of No.43 South International Trade Avenue,Hualong  
Town,Panyu District,Guangzhou,Guangdong,China

**Product Name**.....: **Chameleon-H**

**Trade Mark**.....: CHAMELEON

**Model/Type reference**.....: E9XG-A05-M

**Listed Model(s)** .....: /

**Standard**.....: **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

**Date of receipt of test sample**...: Mar. 02, 2021

**Date of testing**.....: Mar. 02, 2021~Mar. 17, 2021

**Date of issue**.....: Mar. 17, 2021

**Test Result**.....: **PASS**

**Compiled by:**  
(Printed name+signature) Rory Huang

**Supervised by:**  
(Printed name+signature) Eder Zhan

**Approved by:**  
(Printed name+signature) Cary Luo



**Testing Laboratory Name**.....: **KSIGN(Guangdong) Testing Co., Ltd.**

**Address**.....: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu  
Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen,  
Guangdong, People's Republic of China

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## TEST SUMMARY

### 1.1. Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

**ANSI C63.10-2013:** American National Standard for Testing Unlicensed Wireless Devices.

**KDB 558074 D01 :** The measurement guidance provided herein is applicable only to Digital Transmission System (DTS) devices operating in the 902-928 MHz. 2400-2483.5 MHz and/or 5725-5850 MHz bands under §15.247 of the FCC rules (Title 47 of the Code of Federal Regulations).

### 1.2. Report version

| Revised No. | Date of issue | Description |
|-------------|---------------|-------------|
| 01          | Mar. 17, 2021 | Original    |



### 1.3. Test Description

| FCC Part 15 Subpart C(15.247)              |                  |        |               |
|--|------------------|--------|---------------|
| Test Item                                  | Standard Section | Result | Test Engineer |
|  | FCC              |        |               |
| Antenna Requirement                        | 15.203           | Pass   | Rory Huang    |
| Conducted Emission                         | 15.207           | Pass   | Rory Huang    |
| 6dB&99% Bandwidth                          | 15.247(a)(2)     | Pass   | Rory Huang    |
| Peak Output Power                          | 15.247(b)        | Pass   | Rory Huang    |
| Power Spectral Density                     | 15.247(e)        | Pass   | Rory Huang    |
| Restricted Band                            | 15.247(d)/15.205 | Pass   | Rory Huang    |
| Band Edge and Spurious Emission(Conducted) | 15.247(d)        | Pass   | Rory Huang    |
| Spurious Emission(Radiated)                | 15.247(d)&15.209 | Pass   | Rory Huang    |

Note: The measurement uncertainty is not included in the test result.



## 1.4. Test Facility

### Address of the report laboratory

#### **KSIGN(Guangdong) Testing Co., Ltd.**

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

### Laboratory accreditation

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

#### **CNAS-Lab Code: L13261**

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### **A2LA-Lab Cert. No.: 5457.01**

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **IC Registration No.: CN0096**

The 3m alternate test site of KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: CN0096

#### **FCC-Registration No.: CN1272**

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.



### 1.5. 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 TR-100028-01” Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1” and TR-100028-02 “Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 “ and is documented in the KSIGN(Guangdong) Testing Co., Ltd. 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. Below is the best measurement capability for KSIGN(Guangdong) Testing Co., Ltd.

| Test Items                              | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Transmitter power conducted             | 0.42 dB                 | (1)   |
| Transmitter power Radiated              | 2.14 dB                 | (1)   |
| Conducted spurious emissions 9kHz~40GHz | 1.60 dB                 | (1)   |
| Radiated spurious emissions 9kHz~40GHz  | 2.20 dB                 | (1)   |
| Conducted Emissions 9kHz~30MHz          | 3.20 dB                 | (1)   |
| Radiated Emissions 30~1000MHz           | 4.70 dB                 | (1)   |
| Radiated Emissions 1~18GHz              | 5.00 dB                 | (1)   |
| Radiated Emissions 18~40GHz             | 5.54 dB                 | (1)   |
| Occupied Bandwidth                      | 2.80 dB                 | (1)   |

**Note (1):** This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

### 1.6. Environmental conditions

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

|                    |             |
|--------------------|-------------|
| Temperature:       | 15~35°C     |
| Relative Humidity: | 30~60 %     |
| Air Pressure:      | 950~1050mba |



## 2. GENERAL INFORMATION

### 2.1. General Description of EUT

|                        |  |
|------------------------|--|
| Test Sample Number:    | 1-1-1(Normal Sample),1-1-2(Engineering Sample )  |
| Product Name:          | Chameleon-H  |
| Trade Mark:            | CHAMELEON  |
| Model/Type reference:  | E9XG-A05-M   |
| Listed Model(s):       | /  |
| Model Different:       | /  |
| Power supply(Adapter): | AC/DC ADAPTER<br>MODEL:AD018A120150UV<br>INPUT:100-240V~ 50/60Hz 0.5A Max<br>OUTPUT:DC 12V1.5A   |
| Power supply(Battery): | DC 3.7V 10000mAh 37Wh  |
| Hardware version:      | V1.0   |
| Software version:      | V1.0.0   |
| <b>2.4GHz WIFI</b>     |  |
| Modulation:            | 802.11b: DSSS(CCK, DQPSK, DBPSK)<br>802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM)                       |
| Operation frequency:   | 802.11b/g/n(HT20): 2412MHz~2462MHz<br>802.11n(HT40): 2422MHz~2452MHz                             |
| Max Peak Output Power: | 802.11b: 17.86 dBm<br>802.11g: 20.00 dBm<br>802.11n (HT20): 19.94dBm<br>802.11n (HT40): 19.12dBm |
| Channel number:        | 802.11b/g/n(HT20):11 channels<br>802.11n(HT40):7 channels  |
| Test frequency:        | CH01/03: 2412MHz/2422MHz; CH06: 2437MHz;<br>CH09/11: 2452MHz/2462MHz                             |
| Channel separation:    | 5MHz   |
| Antenna type:          | FPC Antenna  |
| Antenna gain:          | 1.0dBi   |



## 2.2. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 01      | 2412            |
| 02      | 2417            |
| 03      | 2422            |
| 04      | 2427            |
| 05      | 2432            |
| 06      | 2437            |
| 07      | 2442            |
| 08      | 2447            |
| 09      | 2452            |
| 10      | 2457            |
| 11      | 2462            |

Note: 1.CH 01~CH 11 for 802.11b/g/n(HT20/HT40), CH03~CH09 for 802.11n(HT40).

2.The display in grey were the channel selected for testing.

### Test mode

|  |
|--|
| For RF test items  |
| The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).  |
| For AC power line conducted emissions:   |
| The EUT was set to connect with the WLAN AP under large package sizes transmission.  |
| For Radiated spurious emissions test item:   |
| The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report. |



### 2.3. Measurement Instruments List

| Tonscend JS0806-2 Test system |                                     |              |           |            |            |
|-------------------------------|-------------------------------------|--------------|-----------|------------|------------|
| Item                          | Test Equipment                      | Manufacturer | Model No. | Serial No. | Cal. Until |
| 1                             | Spectrum Analyzer                   | R&S          | FSV40-N   | 101798     | 04/07/2021 |
| 2                             | Vector Signal Generator             | Agilent      | N5182A    | MY50142520 | 04/07/2021 |
| 3                             | Analog Signal Generator             | HP           | 83752A    | 3344A00337 | 04/07/2021 |
| 4                             | Power Sensor                        | Agilent      | E9304A    | MY50390009 | 04/07/2021 |
| 5                             | Power Sensor                        | Agilent      | E9300A    | MY41498315 | 04/07/2021 |
| 6                             | Wideband Radio Communication Tester | R&S          | CMW500    | 157282     | 04/07/2021 |
| 7                             | Climate Chamber                     | Angul        | AGNH80L   | 1903042120 | 04/07/2021 |
| 8                             | Dual Output DC Power Supply         | Agilent      | E3646A    | MY40009992 | 04/07/2021 |
| 9                             | RF Control Unit                     | Tonscend     | JS0806-2  | /          | 04/07/2021 |

| Transmitter spurious emissions & Receiver spurious emissions |  |                     |              |            |            |
|--|--|---------------------|--------------|------------|------------|
| Item   | Test Equipment                             | Manufacturer        | Model No.    | Serial No. | Cal. Until |
| 1  | EMI Test Receiver                          | R&S                 | ESR          | 102525     | 04/07/2021 |
| 2  | High Pass Filter                           | Chengdu E-Microwave | OHF-3-18-S   | 0E01901038 | 03/27/2021 |
| 3  | High Pass Filter                           | Chengdu E-Microwave | OHF-6.5-18-S | 0E01901039 | 03/27/2021 |
| 4  | Spectrum Analyzer                          | HP                  | 8593E        | 3831U02087 | 04/07/2021 |
| 5  | Ultra-Broadband logarithmic period Antenna | Schwarzbeck         | VULB 9163    | 01230      | 03/29/2023 |
| 6  | Loop Antenna                               | Beijin ZHINAN       | ZN30900C     | 18050      | 03/25/2021 |
| 7  | Spectrum Analyzer                          | R&S                 | FSV40-N      | 101798     | 04/07/2021 |
| 8  | Horn Antenna                               | Schwarzbeck         | BBHA 9120 D  | 2023       | 03/29/2023 |
| 9  | Pre-Amplifier                              | Schwarzbeck         | BBV 9745     | 9745#129   | 04/07/2021 |
| 10   | Pre-Amplifier                              | EMCI                | EMC051835S E | 980662     | 04/07/2021 |
| 11   | Pre-Amplifier                              | Schwarzbeck         | BBV-9721     | 57         | 04/07/2021 |
| 12   | Horn Antenna                               | Schwarzbeck         | BBHA 9170    | 00939      | 03/27/2021 |

| Item | Test Equipment    | Manufacturer | Model No. | Serial No.   | Calibrated until |
|------|-------------------|--------------|-----------|--------------|------------------|
| 1    | LISN              | R&S          | ENV432    | 1326.6105.02 | 03/28/2021       |
| 2    | EMI Test Receiver | R&S          | ESR       | 102524       | 04/06/2021       |
| 3    | Manual RF Switch  | JS TOYO      | /         | MSW-01/002   | 04/06/2021       |

Note:

1)The Cal. Interval was one year.

2)The cable loss has calculated in test result which connection between each test instruments.



## 2.5. Test Software

| Software name                           | Model    | Version       |
|---|----------|---------------|
| Conducted emission Measurement Software | EZ-EMC   | EMC-Con 3A1.1 |
| Radiated emission Measurement Software  | EZ-EMC   | FA-03A.2.RE   |
| Bluetooth and WIFI Test System          | JS1120-3 | 2.5.77.0418   |



### 3. TEST ITEM AND RESULTS

#### 3.1. Antenna requirement

##### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203:**

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

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):**

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

##### Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

Note: The antenna is permanently fixed to the EUT

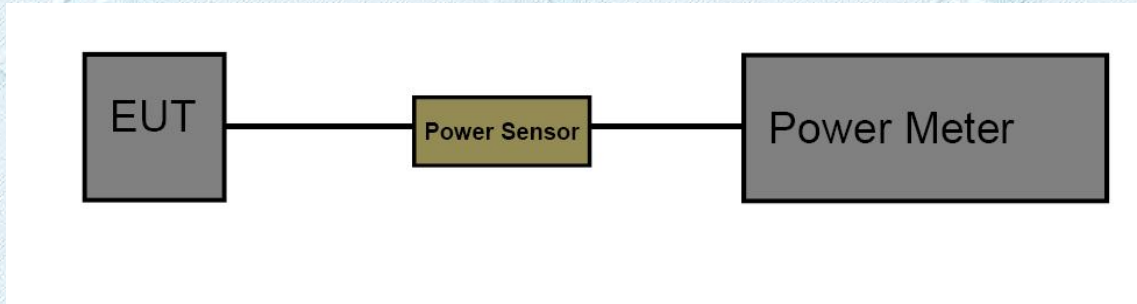


### 3.2. Peak Output Power

**Limit**

| Test Item         | Limit            | Frequency Range(MHz) |
|-------------------|------------------|----------------------|
| Peak Output Power | 1 Watt or 30 dBm | 2400~2483.5          |

**Test Configuration**



**Test Procedure**

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. The measurement is according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.
3. Spectrum Setting:  
 Set analyser center frequency to DTS channel center frequency.  
 Set the RBW to: 1MHz  
 Set the VBW to: 3MHz  
 Detector: peak  
 Sweep time: auto  
 Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.
4. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

**Test Mode**

Please refer to the clause 2.2

**Test Result**



| Mode                 | Channel frequency (MHz) | Test Result (dBm) | Limit (dBm) |
|----------------------|-------------------------|-------------------|-------------|
| 802.11b              | 2412                    | 17.50             | 30          |
|                      | 2437                    | 17.86             |             |
|                      | 2462                    | 17.22             |             |
| 802.11g              | 2412                    | 19.67             |             |
|                      | 2437                    | 20.00             |             |
|                      | 2462                    | 19.28             |             |
| 802.11n (HT20)       | 2412                    | 19.52             |             |
|                      | 2437                    | 19.94             |             |
|                      | 2462                    | 19.27             |             |
| 802.11n (HT40)       | 2422                    | 18.92             |             |
|                      | 2437                    | 19.12             |             |
|                      | 2452                    | 18.77             |             |
| <b>Result : PASS</b> |                         |                   |             |

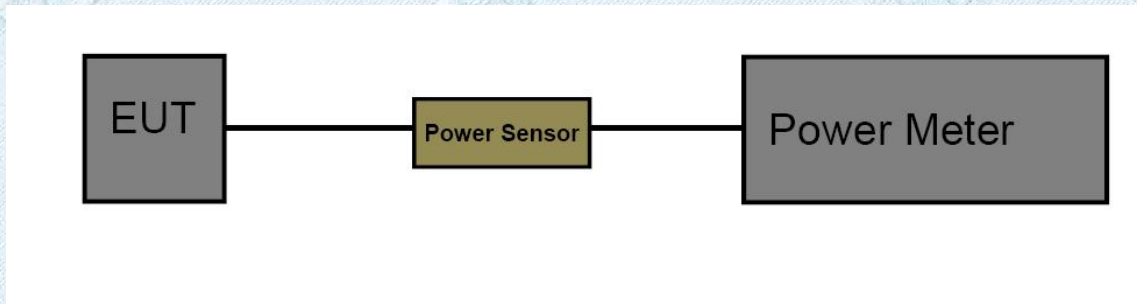


### 3.3. Power Spectral Density

**Limit**

| FCC Part 15 Subpart C(15.247) |                    |                      |
|-------------------------------|--------------------|----------------------|
| Test Item                     | Limit              | Frequency Range(MHz) |
| Power Spectral Density        | 8dBm(in any 3 kHz) | 2400~2483.5          |

**Test Configuration**



**Test Procedure**

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.
3. Spectrum Setting:  
 Set analyser center frequency to DTS channel center frequency.  
 Set the span to 1.5 times the DTS bandwidth.  
 Set the RBW to: 10 kHz  
 Set the VBW to: 30 kHz  
 Detector: peak  
 Sweep time: auto  
 Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

**Test Mode**

Please refer to the clause 2.2

**Test Result**

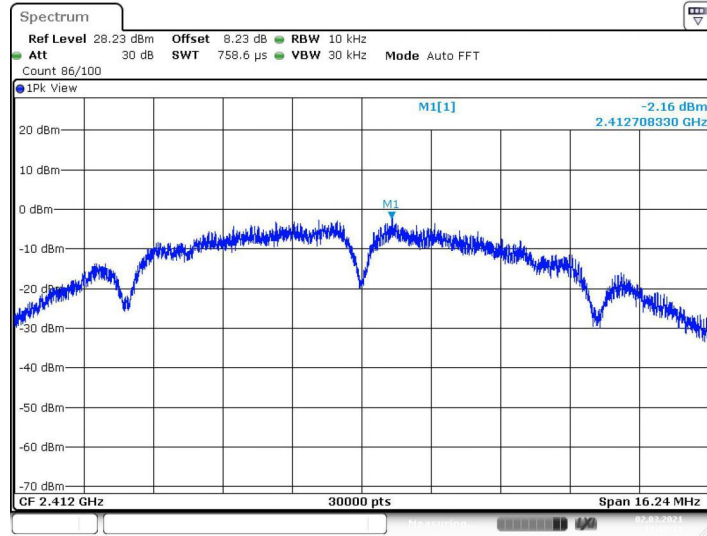
Note:

$$\text{Power Density(dBm/3kHz)} = \text{Power Density(dBm/10kHz)} - 10 \cdot \log(10/3)$$



| <b>Test Mode:</b>       | 802.11b Mode              |                          |             |
|-------------------------|---------------------------|--------------------------|-------------|
| Channel Frequency (MHz) | Power Density (dBm/10kHz) | Power Density (dBm/3kHz) | Limit (dBm) |
| 2412                    | -2.16                     | -7.39                    | 8dBm/3kHz   |
| 2437                    | -3.13                     | -8.36                    |             |
| 2462                    | -3.3                      | -8.53                    |             |

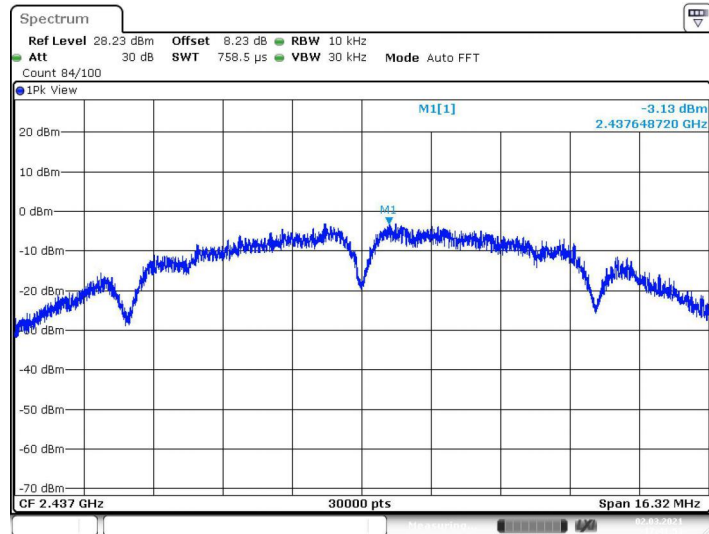
**2412 MHz**



Date: 2.MAR.2021 17:37:11

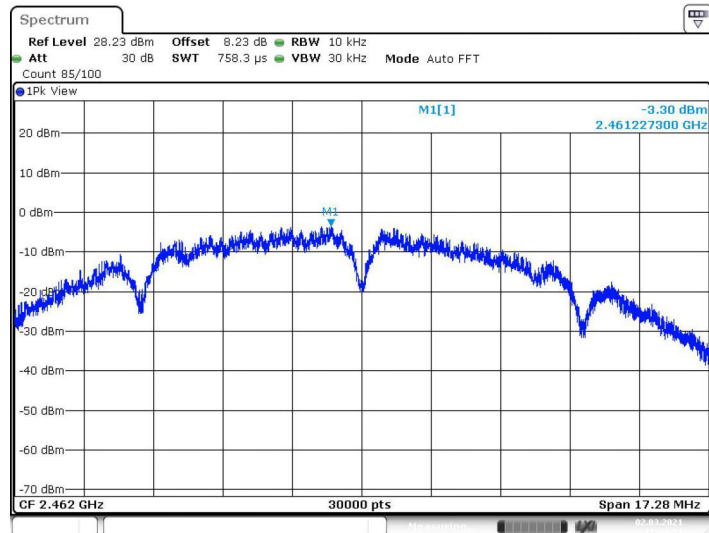


### 2437 MHz



Date: 2.MAR.2021 17:41:53

### 2462 MHz

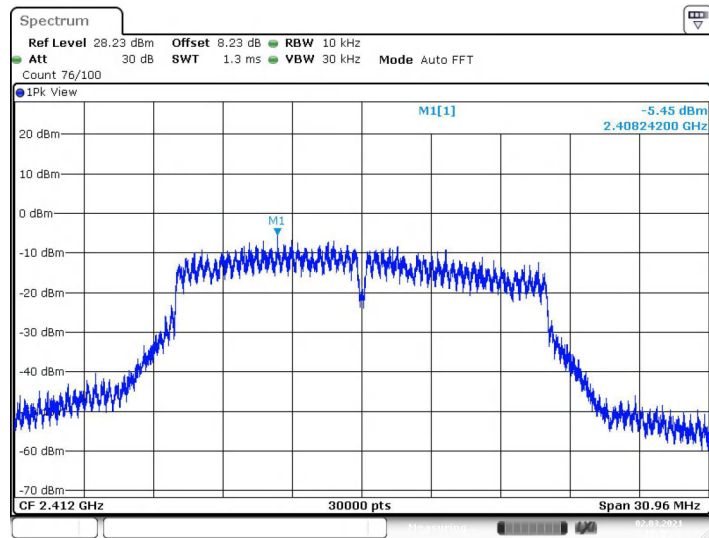


Date: 2.MAR.2021 17:44:51



| <b>Test Mode:</b>       | 802.11g Mode               |                           |             |
|-------------------------|----------------------------|---------------------------|-------------|
| Channel Frequency (MHz) | Power Density (dBm/10 kHz) | Power Density (dBm/3 kHz) | Limit (dBm) |
| 2412                    | -5.45                      | -10.68                    | 8dBm/3kHz   |
| 2437                    | -6.89                      | -12.12                    |             |
| 2462                    | -5.96                      | -11.19                    |             |

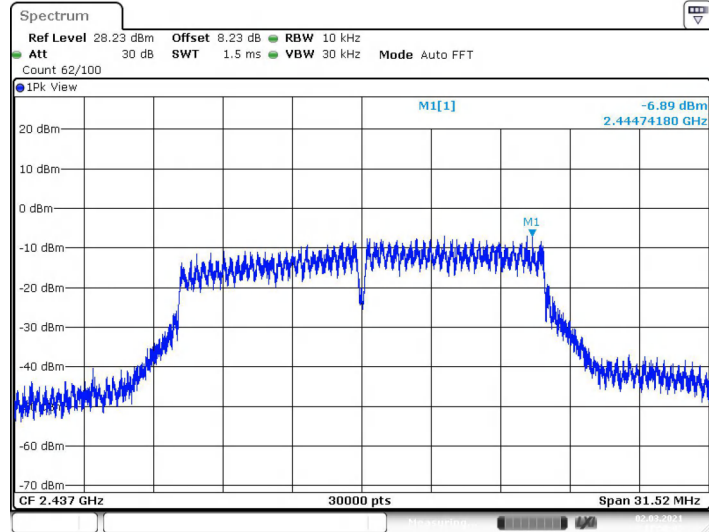
**2412 MHz**



Date: 2.MAR.2021 17:47:30

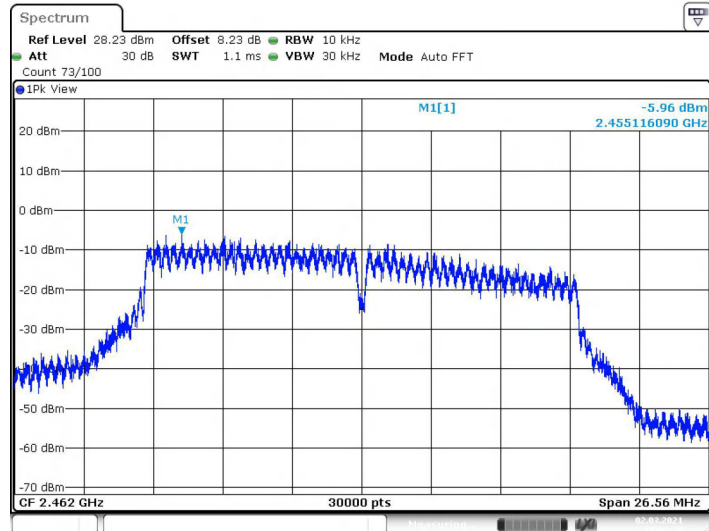


### 2437 MHz



Date: 2.MAR.2021 17:50:49

### 2462 MHz

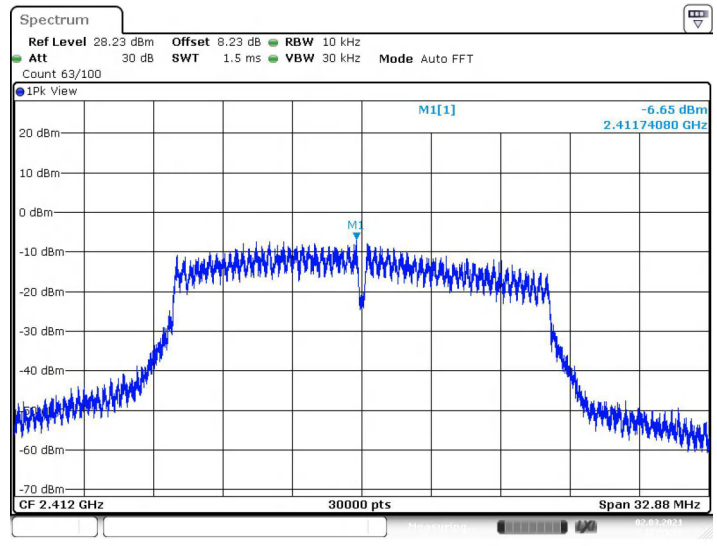


Date: 2.MAR.2021 17:52:27



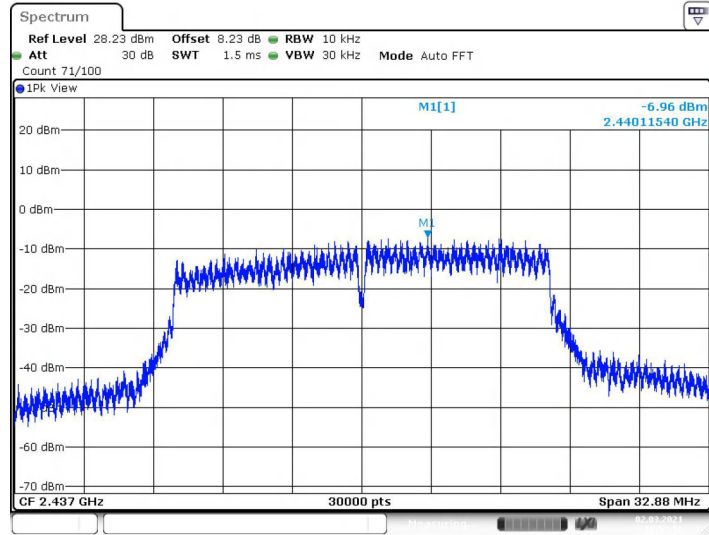
| <b>Test Mode:</b>       | 802.11n(HT20) Mode        |                           |             |
|-------------------------|---------------------------|---------------------------|-------------|
| Channel Frequency (MHz) | Power Density (dBm/10kHz) | Power Density (dBm/3 kHz) | Limit (dBm) |
| 2412                    | -6.65                     | -11.88                    | 8dBm/3kHz   |
| 2437                    | -6.96                     | -12.19                    |             |
| 2462                    | -6.97                     | -12.20                    |             |

**2412 MHz**



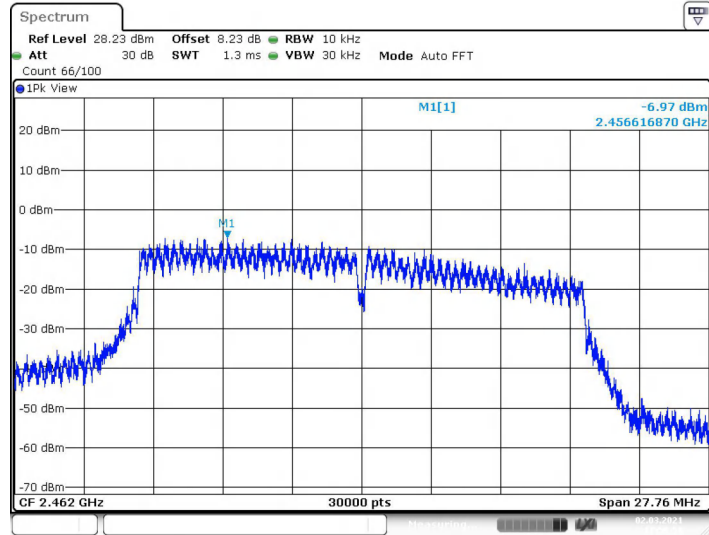


### 2437 MHz



Date: 2.MAR.2021 17:57:50

### 2462 MHz

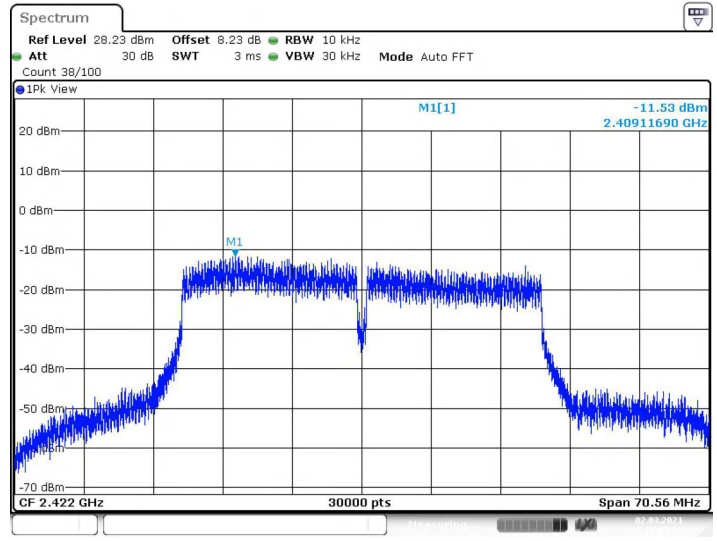


Date: 2.MAR.2021 17:59:51



| <b>Test Mode:</b>       | 802.11n(HT40) Mode        |                           |             |
|-------------------------|---------------------------|---------------------------|-------------|
| Channel Frequency (MHz) | Power Density (dBm/10kHz) | Power Density (dBm/3 kHz) | Limit (dBm) |
| 2422                    | -11.53                    | -16.76                    | 8dBm/3kHz   |
| 2437                    | -10.51                    | -15.74                    |             |
| 2452                    | -8.1                      | -13.33                    |             |

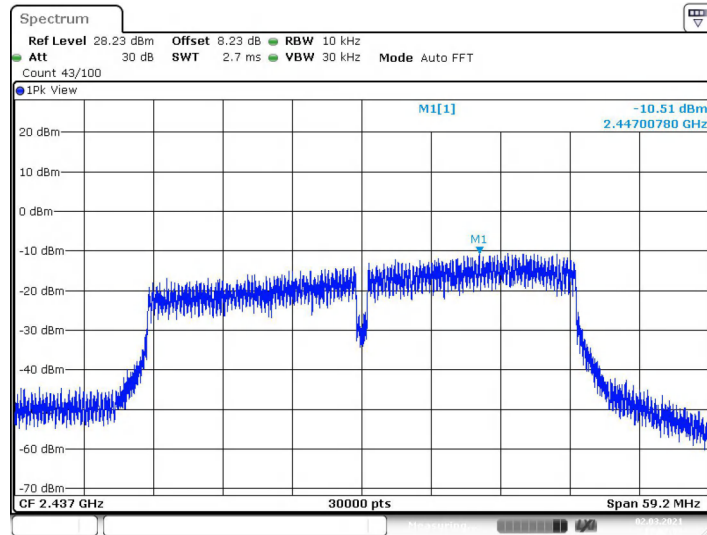
**2422 MHz**



Date: 2.MAR.2021 18:04:24

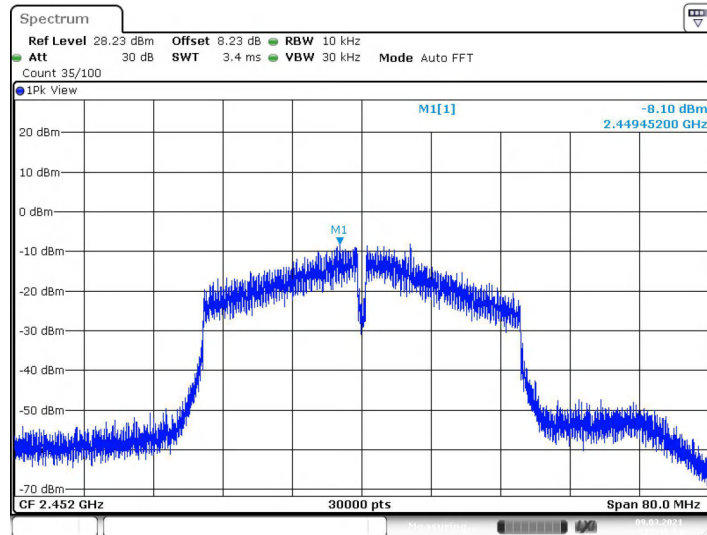


### 2437 MHz



Date: 2.MAR.2021 18:07:02

### 2452 MHz



Date: 9.MAR.2021 16:45:55

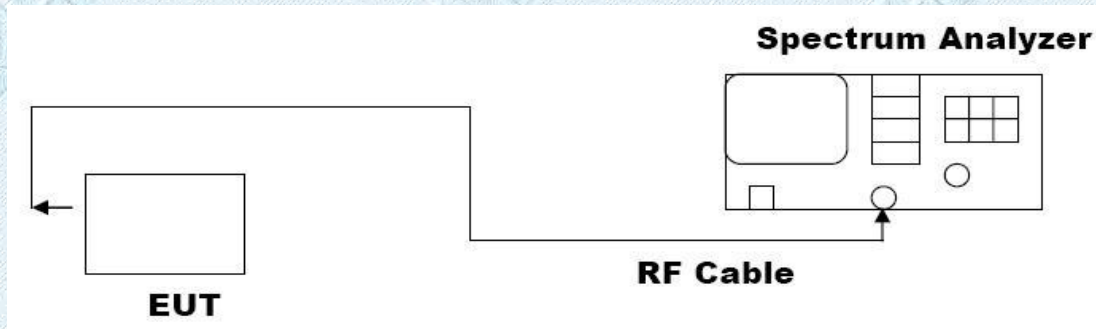


### 3.4. Bandwidth

**Limit**

| Test Item | Limit                        | Frequency Range(MHz) |
|-----------|------------------------------|----------------------|
| Bandwidth | >=500 KHz<br>(6dB bandwidth) | 2400~2483.5          |

**Test Configuration**



**Test Procedure**

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator:
  - 6db Bandwidth
  - (1) Set RBW = 100 kHz.
  - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

**Test Mode**

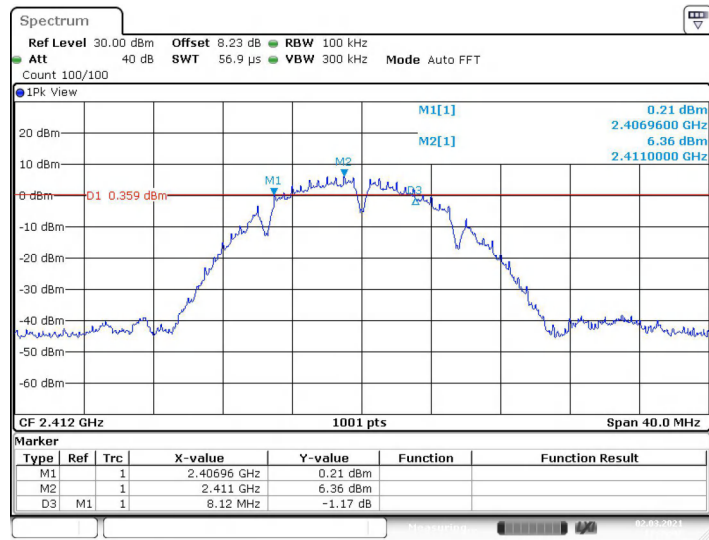
Please refer to the clause 2.2.

**Test Results**



|                                |                            |                    |
|--------------------------------|----------------------------|--------------------|
| <b>Test Mode:</b>              | 802.11b Mode               |                    |
| <b>Channel frequency (MHz)</b> | <b>6dB Bandwidth (MHz)</b> | <b>Limit (MHz)</b> |
| 2412                           | 8.120                      | ≥0.5               |
| 2437                           | 8.160                      |                    |
| 2462                           | 8.640                      |                    |

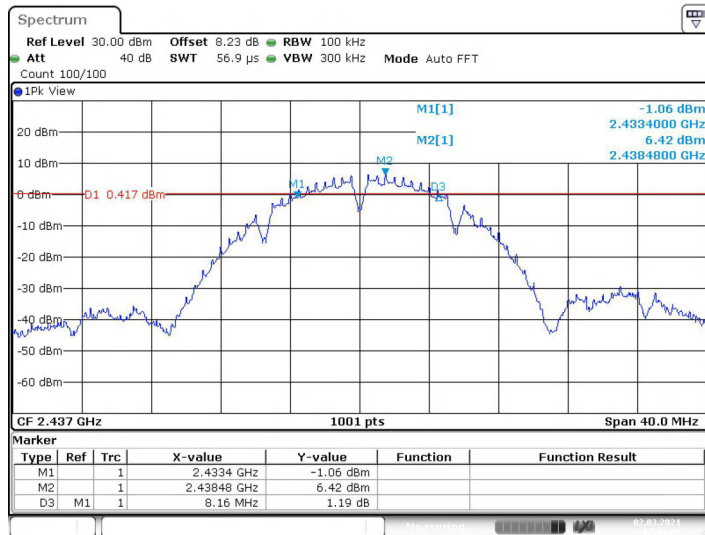
**2412 MHz**



Date: 2.MAR.2021 17:36:47

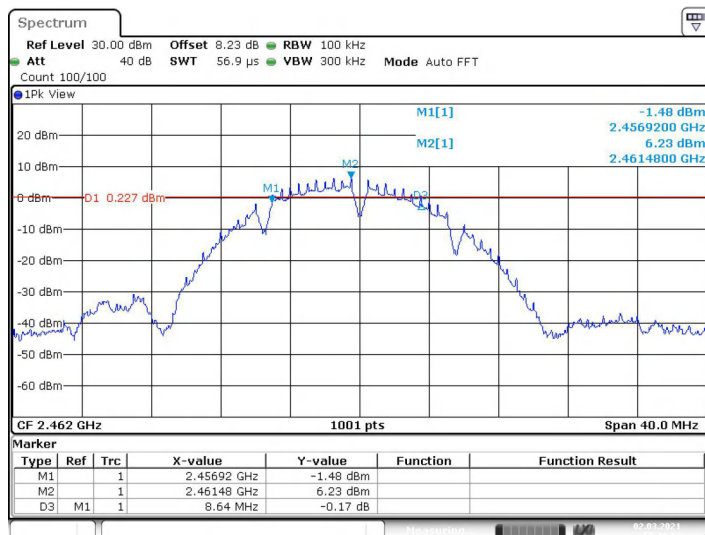


### 2437 MHz



Date: 2.MAR.2021 17:41:29

### 2462 MHz

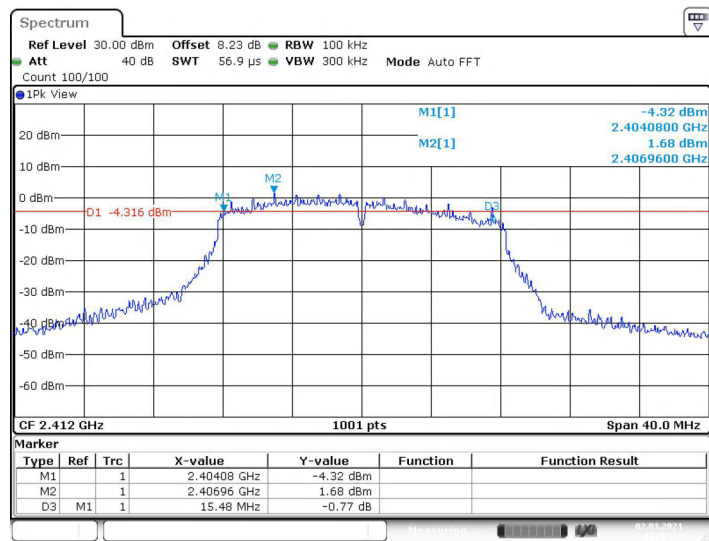


Date: 2.MAR.2021 17:44:28



|                                |                            |                    |
|--------------------------------|----------------------------|--------------------|
| <b>Test Mode:</b>              | 802.11g Mode               |                    |
| <b>Channel frequency (MHz)</b> | <b>6dB Bandwidth (MHz)</b> | <b>Limit (MHz)</b> |
| 2412                           | 15.480                     | >=0.5              |
| 2437                           | 15.760                     |                    |
| 2462                           | 13.280                     |                    |

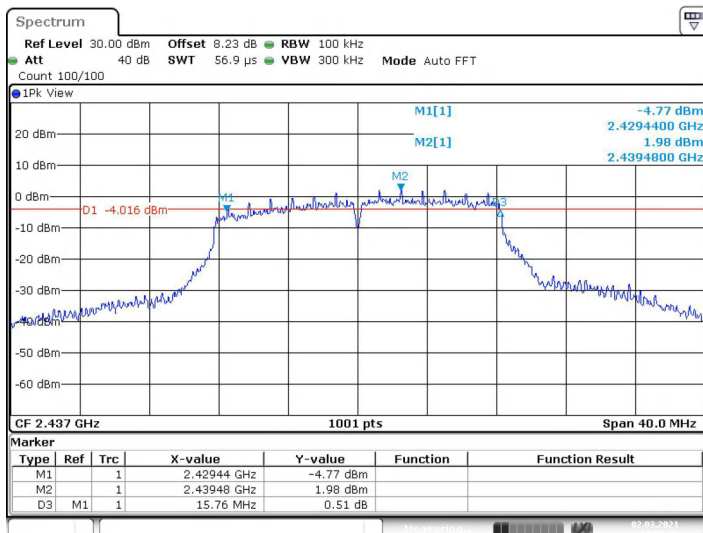
**2412 MHz**



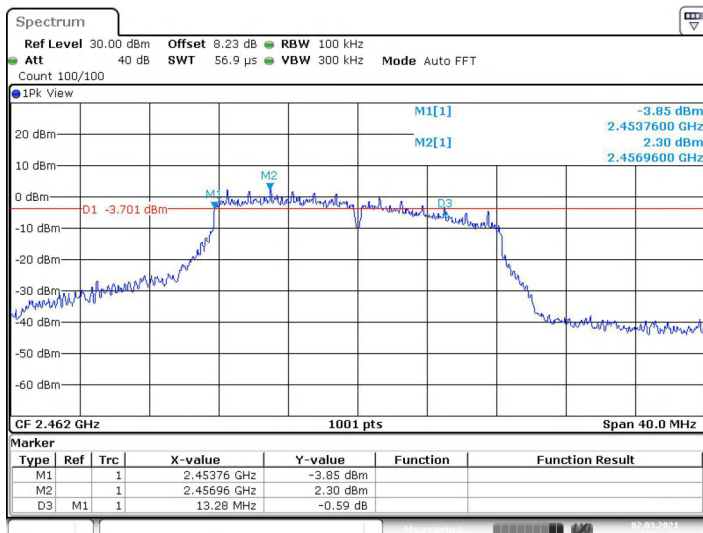
Date: 2.MAR.2021 17:47:07



### 2437 MHz



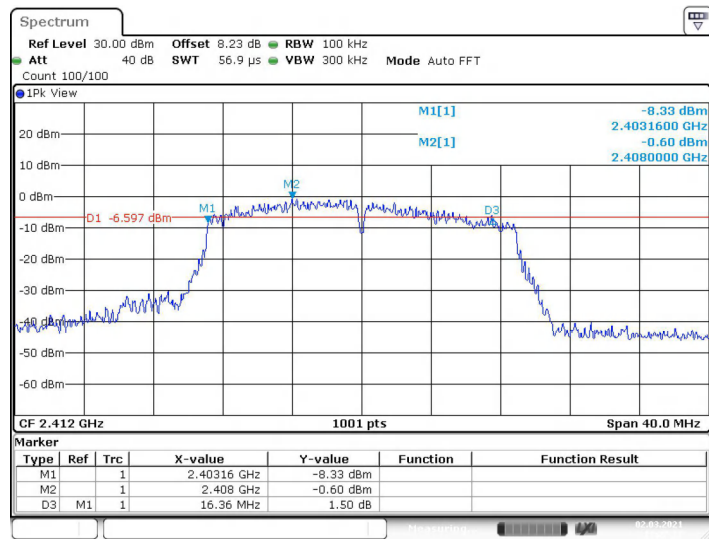
### 2462 MHz





|                                |                            |                    |
|--------------------------------|----------------------------|--------------------|
| <b>Test Mode:</b>              | 802.11n(HT20) Mode         |                    |
| <b>Channel frequency (MHz)</b> | <b>6dB Bandwidth (MHz)</b> | <b>Limit (MHz)</b> |
| 2412                           | 16.360                     | >=0.5              |
| 2437                           | 15.200                     |                    |
| 2462                           | 13.880                     |                    |

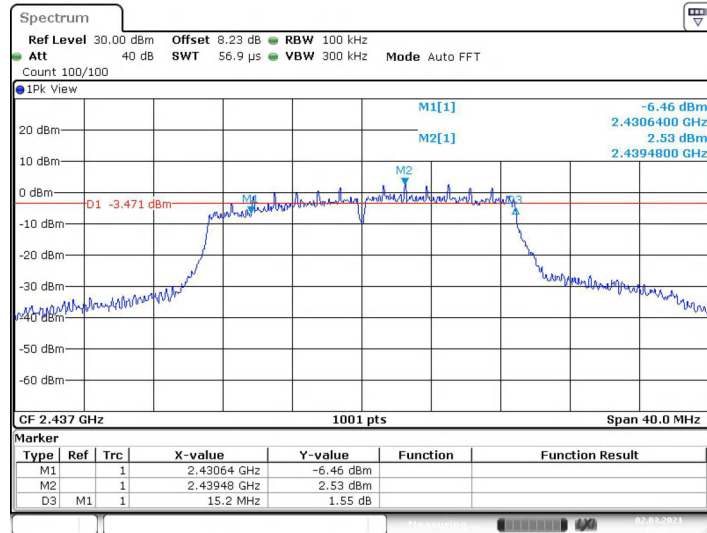
**2412 MHz**



Date: 2.MAR.2021 18:27:27

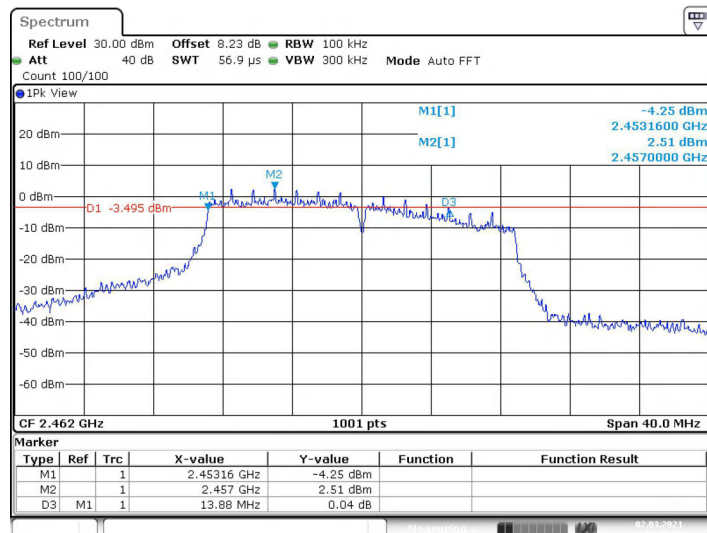


### 2437 MHz



Date: 2.MAR.2021 18:27:46

### 2462 MHz



Date: 2.MAR.2021 18:28:05



