

# TEST REPORT

**Report No.** .....: **KS2108S2480E**  
**FCC ID**.....: **2AHYVJBUDSWORK**  
**Applicant**.....: **PEAG, LLC dba JLab Audio**  
**Address**.....: 2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA  
**Manufacturer**.....: PEAG, LLC dba JLab Audio  
**Address**.....: 2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA  
**Product Name**.....: **JBuds Work Wireless over-ear headset**  
**Trade Mark**.....: JLAB  
**Model/Type reference**.....: JBuds Work  
**Listed Model(s)** .....: N/A  
**Standard**.....: **FCC CFR Title 47 Part 15 Subpart C Section 15.247**  
**Date of receipt of test sample**...: Aug. 06, 2021  
**Date of testing**.....: Aug. 06, 2021~Aug. 17, 2021  
**Date of issue**.....: Aug. 17, 2021  
**Test Result**.....: **Pass**

Compiled by:  
 (Printed name+signature) Rory Huang

Rory Huang

Supervised by:  
 ( Printed name+signature) Leo Su

Leo Su

Approved by:  
 ( Printed name+signature) Neil Wan

Neil Wan

**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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## 1. 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.

**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).

**ANSI C63.10-2020:** American National Standard for Testing Unlicensed Wireless Devices.

### 1.2. Report version

| Revised No. | Date of issue | Description |
|-------------|---------------|-------------|
| 01          | Aug. 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   | Allen Li      |
| Conducted Emission                      | 15.207           | Pass   | Allen Li      |
| Restricted Bands                        | 15.205           | Pass   | Allen Li      |
| Hopping Channel Separation              | 15.247(a)(1)     | Pass   | Allen Li      |
| Dwell Time                              | 15.247(a)(1)     | Pass   | Allen Li      |
| Peak Output Power                       | 15.247(b)(1)     | Pass   | Allen Li      |
| Number of Hopping Frequency             | 15.247 (a)(1)    | Pass   | Allen Li      |
| Band Edge Emissions                     | 15.247(d)        | Pass   | Allen Li      |
| Radiated Spurious Emission              | 15.247(c)&15.209 | Pass   | Allen Li      |
| 99% Occupied Bandwidth & 20dB Bandwidth | 15.247(a)(1)     | Pass   | Allen Li      |
| Pseudorandom Frequency Hopping Sequence | 15.247 (a)(1)    | Pass   | Allen Li      |

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:          | JBuds Work Wireless over-ear headset            |
| Trademark:             | JLAB                                            |
| Model/Type reference:  | JBuds Work                                      |
| Listed Model(s):       | N/A                                             |
| Model Difference:      | N/A                                             |
| Power supply(Adapter): | Input : DC 5V                                   |
| Power supply(Battery): | DC 3.7V, 600mAh, 2.22Wh                         |
| Hardware version:      | V6                                              |
| Software version:      | V2.6                                            |
| <b>Bluetooth</b>       |                                                 |
| Modulation:            | GFSK(DH5), $\pi/4$ -DQPSK(2DH5), 8DPSK(3DH5)    |
| Operation frequency:   | 2402MHz~2480MHz                                 |
| Max Peak Output Power: | DH5: 2.1dBm<br>2DH5: 2.01dBm<br>3DH5: 1.97dBm   |
| Channel number:        | 79                                              |
| Channel separation:    | 1MHz                                            |
| Antenna type:          | Chip Antenna                                    |
| Antenna gain:          | 3.4 dBi                                         |

## 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. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

| Channel   | Frequency (MHz) |
|-----------|-----------------|
| <b>00</b> | <b>2402</b>     |
| 01        | 2403            |
| :         | :               |
| 38        | 2440            |
| <b>39</b> | <b>2441</b>     |
| 40        | 2442            |
| :         | :               |
| 77        | 2479            |
| <b>78</b> | <b>2480</b>     |

Note: The display in gray were the channel selected for testing.

Test mode

| NO. | TEST MODE DESCRIPTION         |
|-----|-------------------------------|
| 1   | Low channel GFSK              |
| 2   | Middle channel GFSK           |
| 3   | High channel GFSK             |
| 4   | Low channel $\pi/4$ -DQPSK    |
| 5   | Middle channel $\pi/4$ -DQPSK |
| 6   | High channel $\pi/4$ -DQPSK   |
| 7   | Low channel 8DPSK             |
| 8   | Middle channel 8DPSK          |
| 9   | High channel 8DPSK            |
| 10  | Hopping mode GFSK             |
| 11  | Hopping mode $\pi/4$ -DQPSK   |
| 12  | Hopping mode 8DPSK            |

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The test software is the Blue Test 3 which can set the EUT into the individual test modes.

### 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     | 04/07/2022 |
| 2                             | Vector Signal Generator             | Agilent      | N5182A    | MY50142520 | 04/07/2022 |
| 3                             | Analog Signal Generator             | HP           | 83752A    | 3344A00337 | 04/07/2022 |
| 4                             | Power Sensor                        | Agilent      | E9304A    | MY50390009 | 04/07/2022 |
| 5                             | Power Sensor                        | Agilent      | E9300A    | MY41498315 | 04/07/2022 |
| 6                             | Wideband Radio Communication Tester | R&S          | CMW500    | 157282     | 04/07/2022 |
| 7                             | Climate Chamber                     | Angul        | AGNH80L   | 1903042120 | 04/07/2022 |
| 8                             | Dual Output DC Power Supply         | Agilent      | E3646A    | MY40009992 | 04/07/2022 |
| 9                             | RF Control Unit                     | Tonscend     | JS0806-2  | /          | 04/07/2022 |

| Transmitter spurious emissions & Receiver spurious emissions |                                            |                     |              |            |            |
|--------------------------------------------------------------|--------------------------------------------|---------------------|--------------|------------|------------|
| Item                                                         | Test Equipment                             | Manufacturer        | Model No.    | Serial No. | Cal. Until |
| 1                                                            | EMI Test Receiver                          | R&S                 | ESR          | 102525     | 04/07/2022 |
| 2                                                            | High Pass Filter                           | Chengdu E-Microwave | OHF-3-18-S   | 0E01901038 | 03/27/2022 |
| 3                                                            | High Pass Filter                           | Chengdu E-Microwave | OHF-6.5-18-S | 0E01901039 | 03/27/2022 |
| 4                                                            | Spectrum Analyzer                          | HP                  | 8593E        | 3831U02087 | 04/07/2022 |
| 5                                                            | Ultra-Broadband logarithmic period Antenna | Schwarzbeck         | VULB 9163    | 01230      | 03/29/2023 |
| 6                                                            | Loop Antenna                               | Beijin ZHINAN       | ZN30900C     | 18050      | 03/25/2022 |
| 7                                                            | Spectrum Analyzer                          | R&S                 | FSV40-N      | 101798     | 04/07/2022 |
| 8                                                            | Horn Antenna                               | Schwarzbeck         | BBHA 9120 D  | 2023       | 03/29/2023 |
| 9                                                            | Pre-Amplifier                              | Schwarzbeck         | BBV 9745     | 9745#129   | 04/07/2022 |
| 10                                                           | Pre-Amplifier                              | EMCI                | EMC051835SE  | 980662     | 04/07/2022 |
| 11                                                           | Pre-Amplifier                              | Schwarzbeck         | BBV-9721     | 57         | 04/07/2022 |
| 12                                                           | Horn Antenna                               | Schwarzbeck         | BBHA 9170    | 00939      | 03/29/2022 |

| Item | Test Equipment    | Manufacturer | Model No. | Serial No.   | Calibrated until |
|------|-------------------|--------------|-----------|--------------|------------------|
| 1    | LISN              | R&S          | ENV432    | 1326.6105.02 | 03/27/2022       |
| 2    | EMI Test Receiver | R&S          | ESR       | 102524       | 04/07/2022       |
| 3    | Manual RF Switch  | JS TOYO      | /         | MSW-01/002   | 04/07/2022       |

Note:

1)The Cal. Interval was one year.

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

TRF No. FCC Part 15.247\_R1

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## 2.4. 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

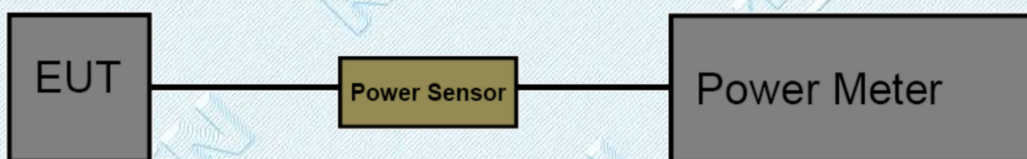
The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

## 3.2. Peak Output Power

### Limit

| Test Item         | Limit                                                         | Frequency Range(MHz) |
|-------------------|---------------------------------------------------------------|----------------------|
| Peak Output Power | Hopping Channels>75<br>Power<1W(30dBm)<br>Other <125mW(21dBm) | 2400~2483.5          |

### Test Configuration



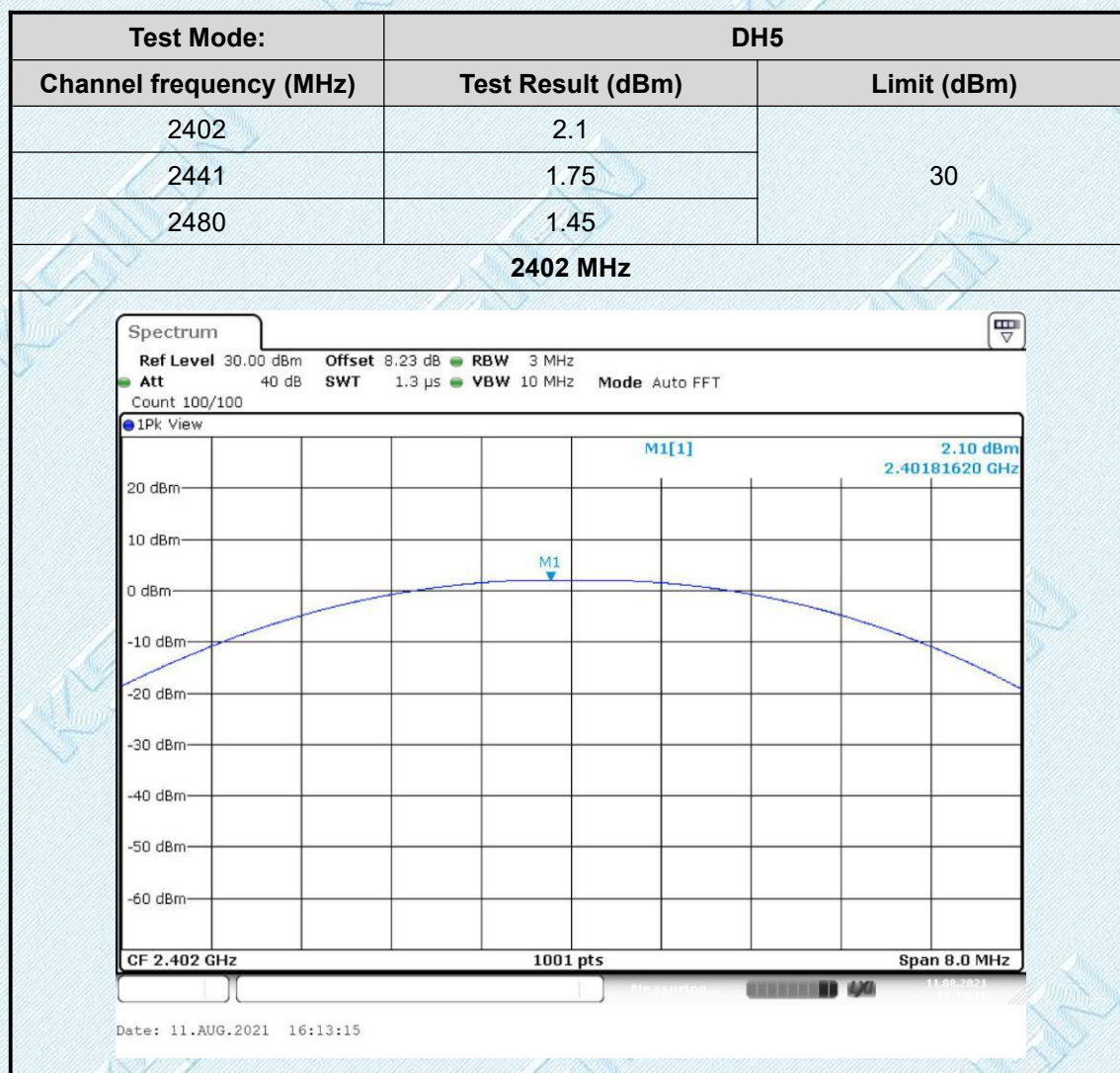
### Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:  
Peak Detector: RBW=1 MHz, VBW=3 MHz for bandwidth less than 1MHz.  
RBW=3 MHz, VBW=10 MHz for bandwidth more than 1MHz.

### Test Mode

Please refer to the clause 2.2

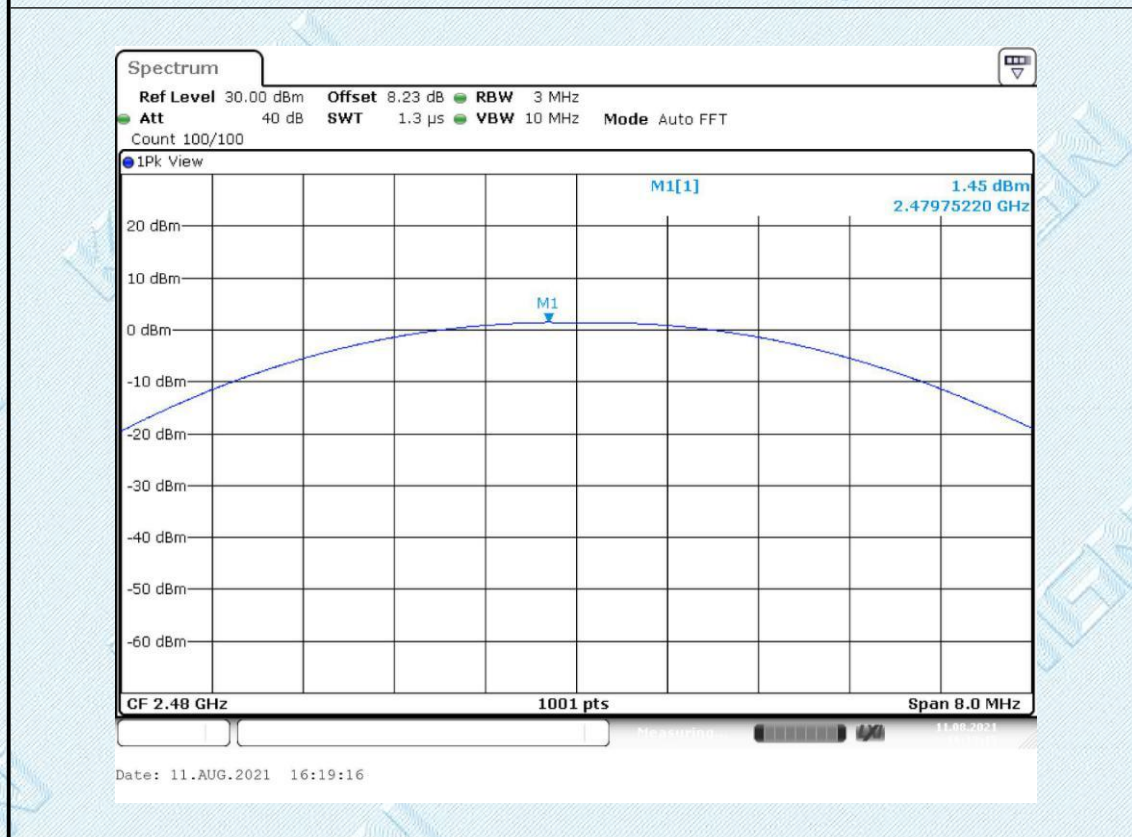
# Test Result

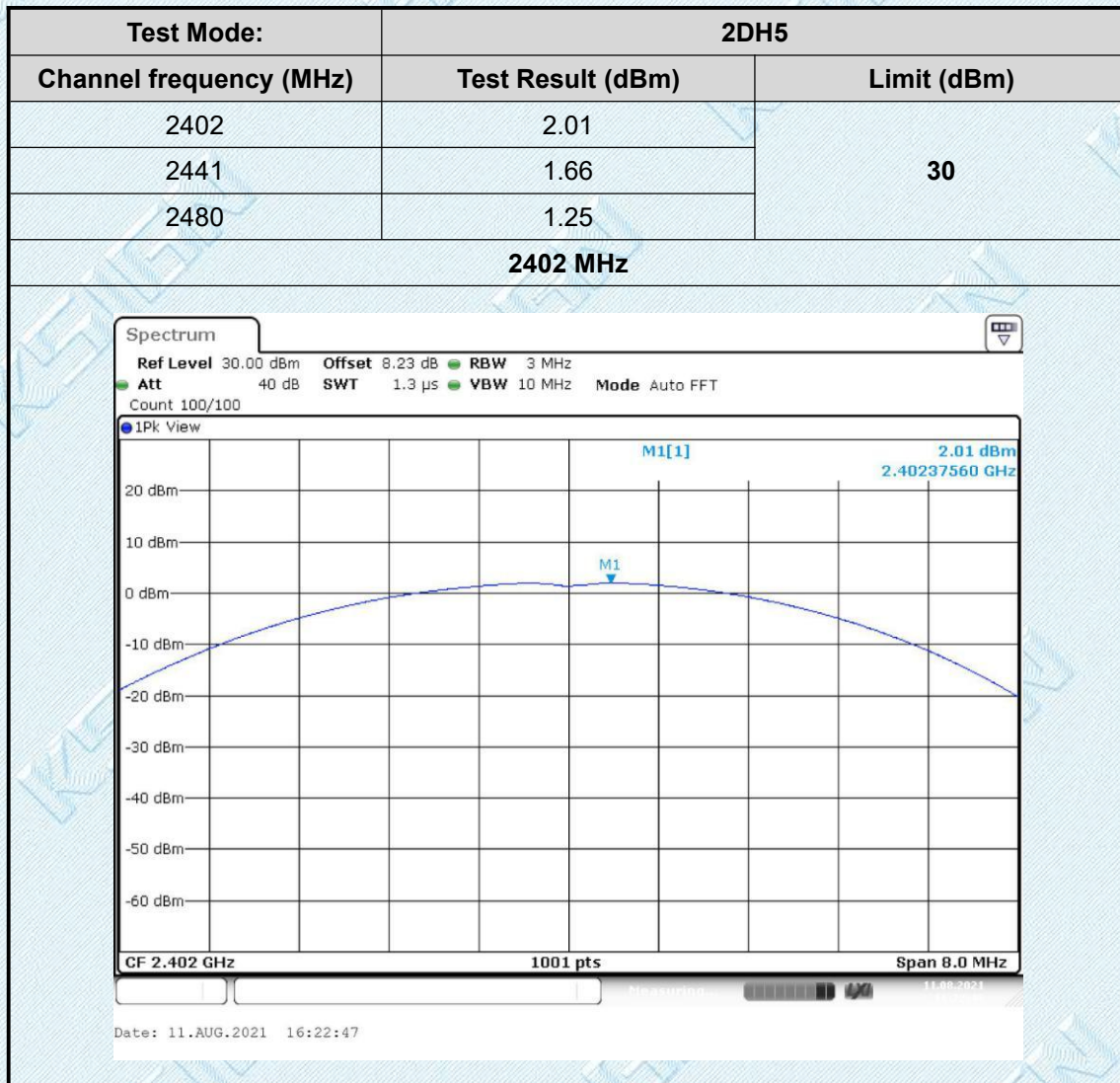


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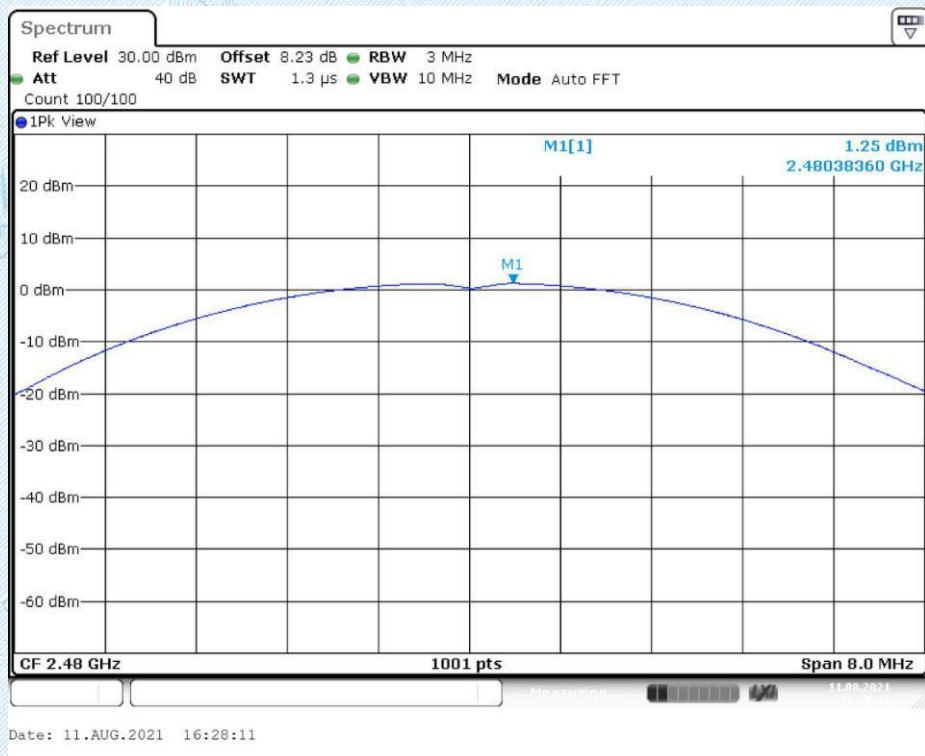


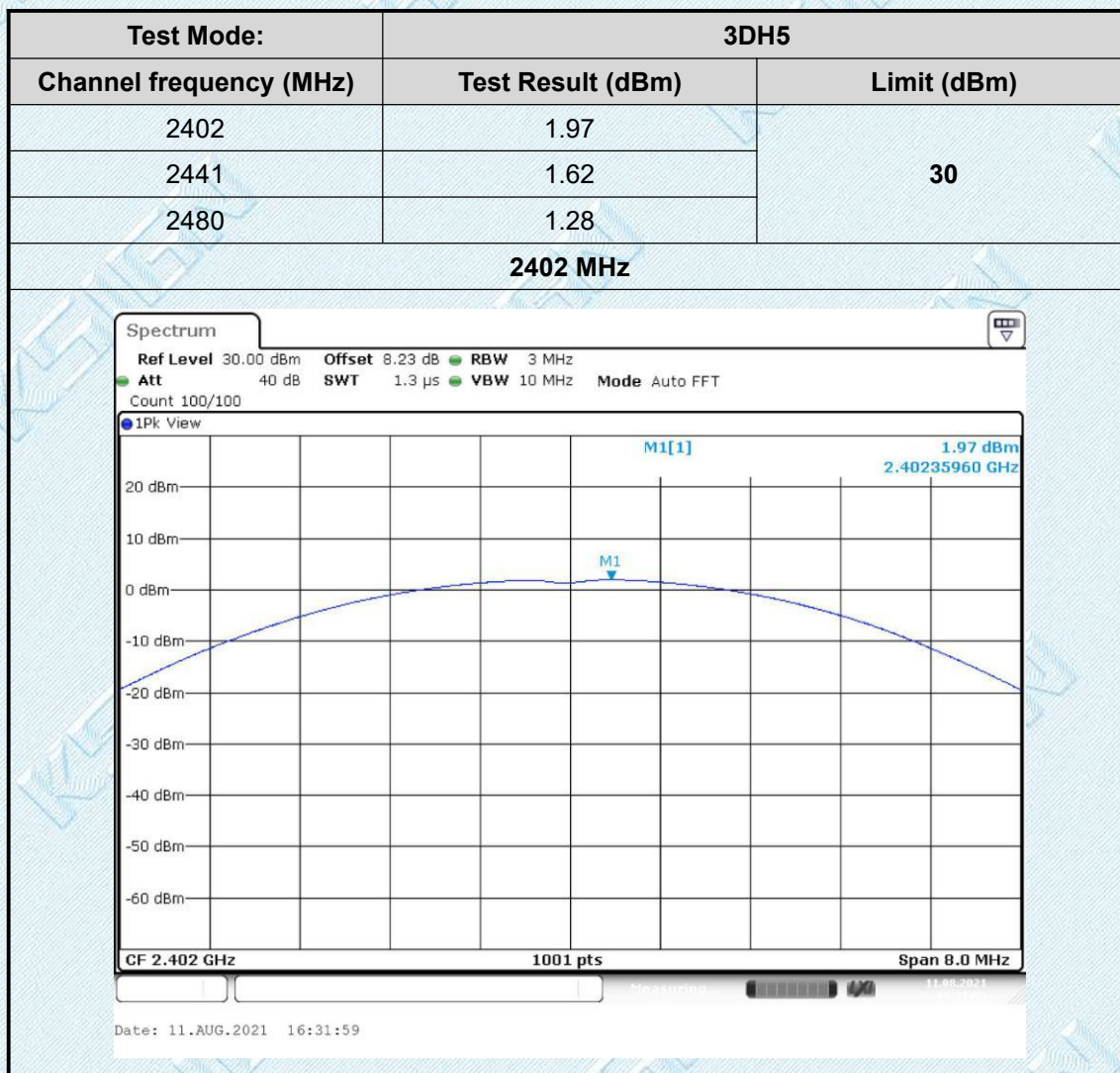


### 2441 MHz

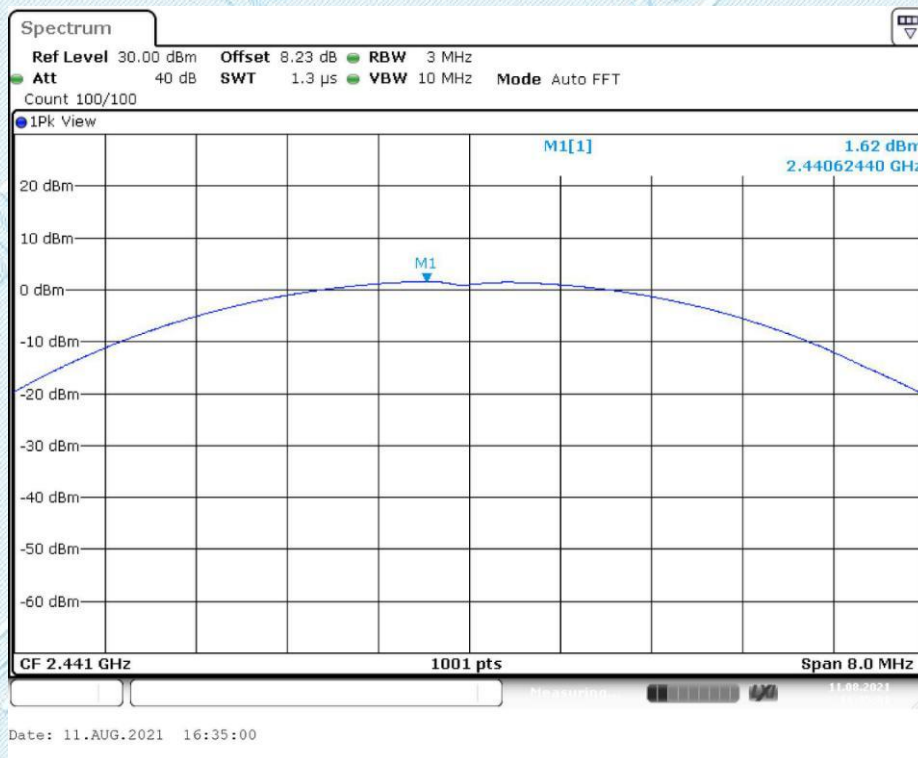


### 2480 MHz

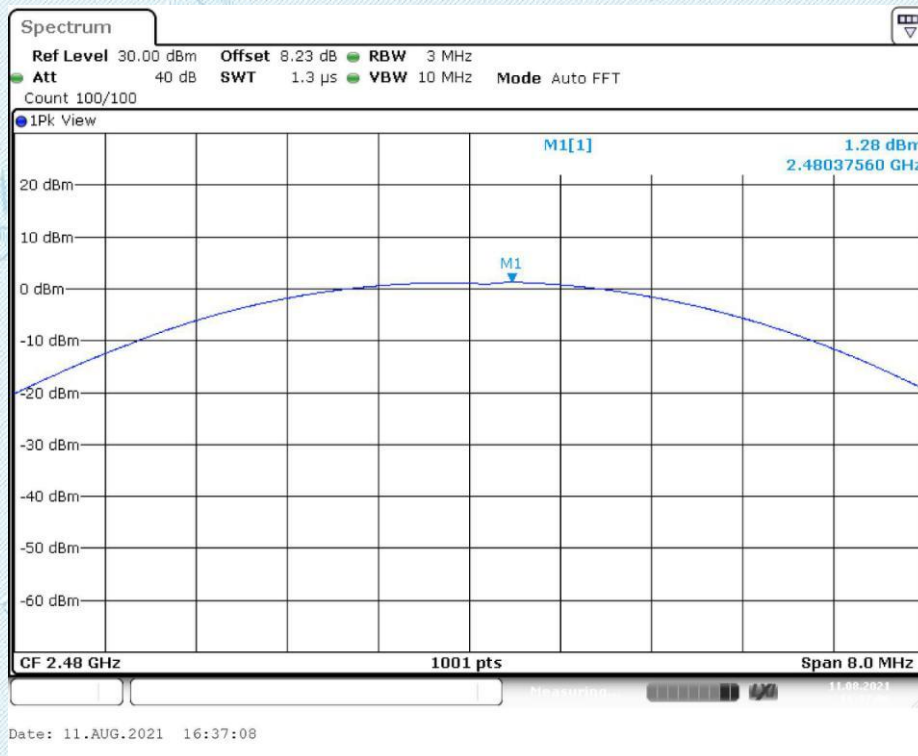




### 2441 MHz



### 2480 MHz

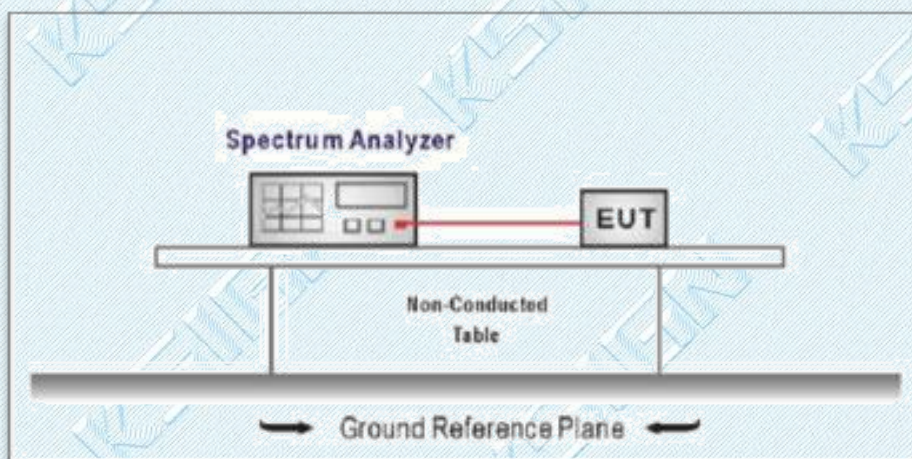


### 3.3. 20dB Bandwidth

#### Limit

| Test Item | Limit | Frequency Range(MHz) |
|-----------|-------|----------------------|
| Bandwidth | N/A   | 2400~2483.5          |

#### Test Configuration



#### Test Procedure

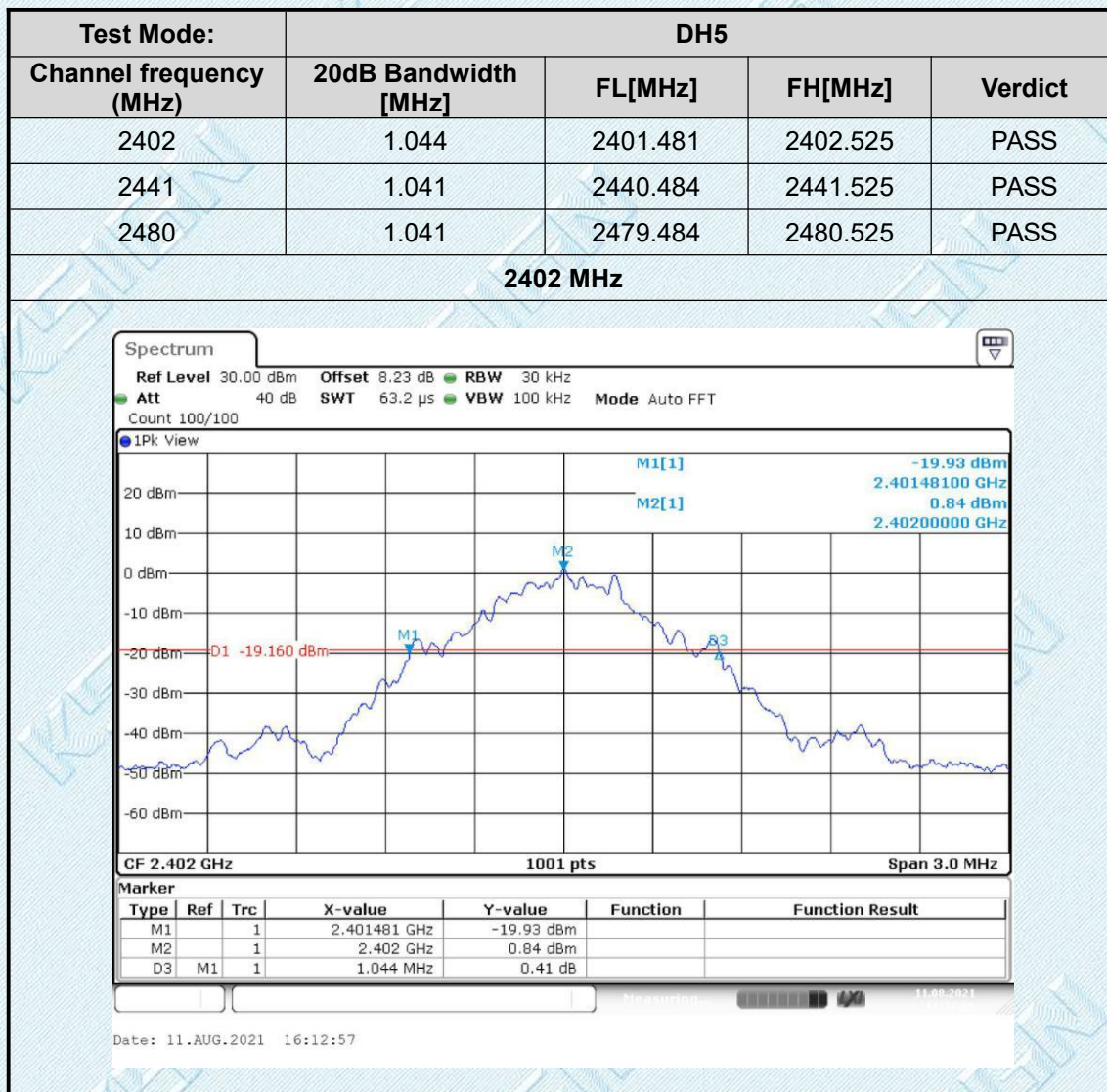
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
  - (1) Set RBW = 30 kHz.
  - (2) Set the video bandwidth (VBW)  $\geq 3 \times \text{RBW}$ .
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

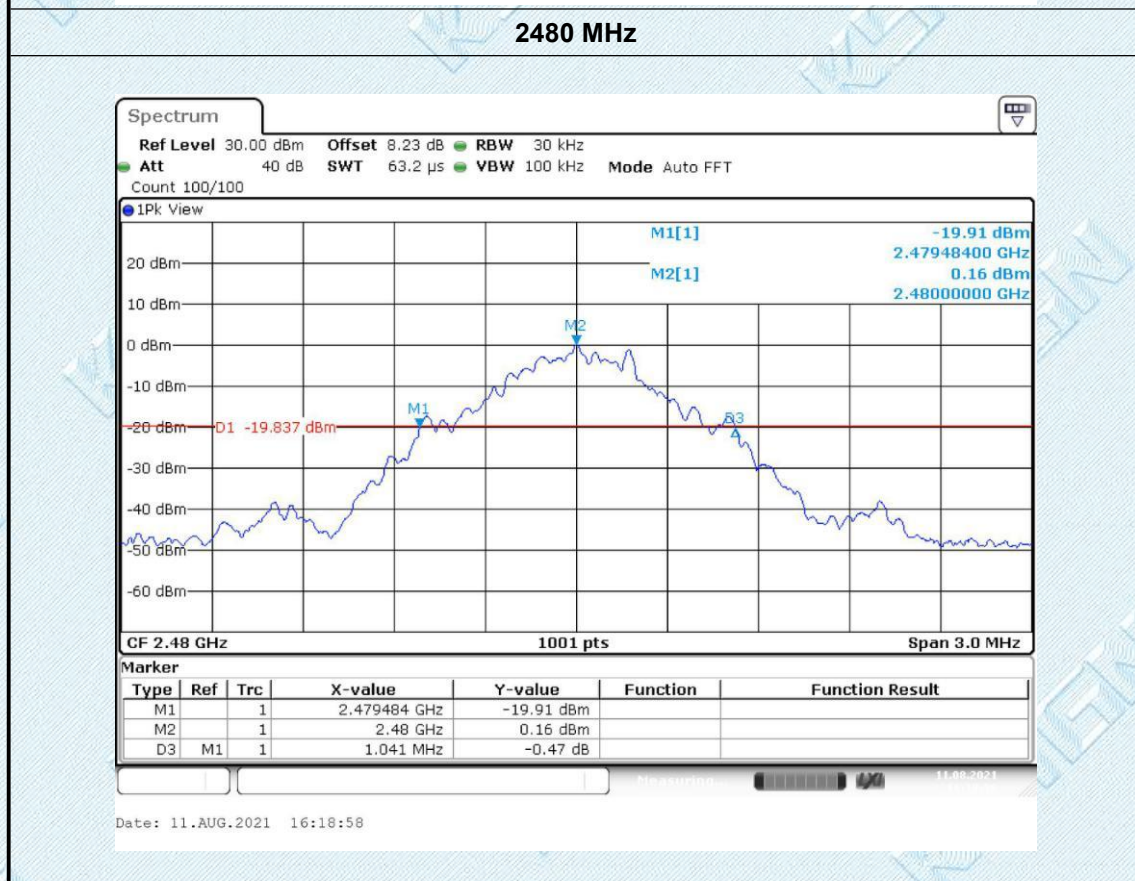
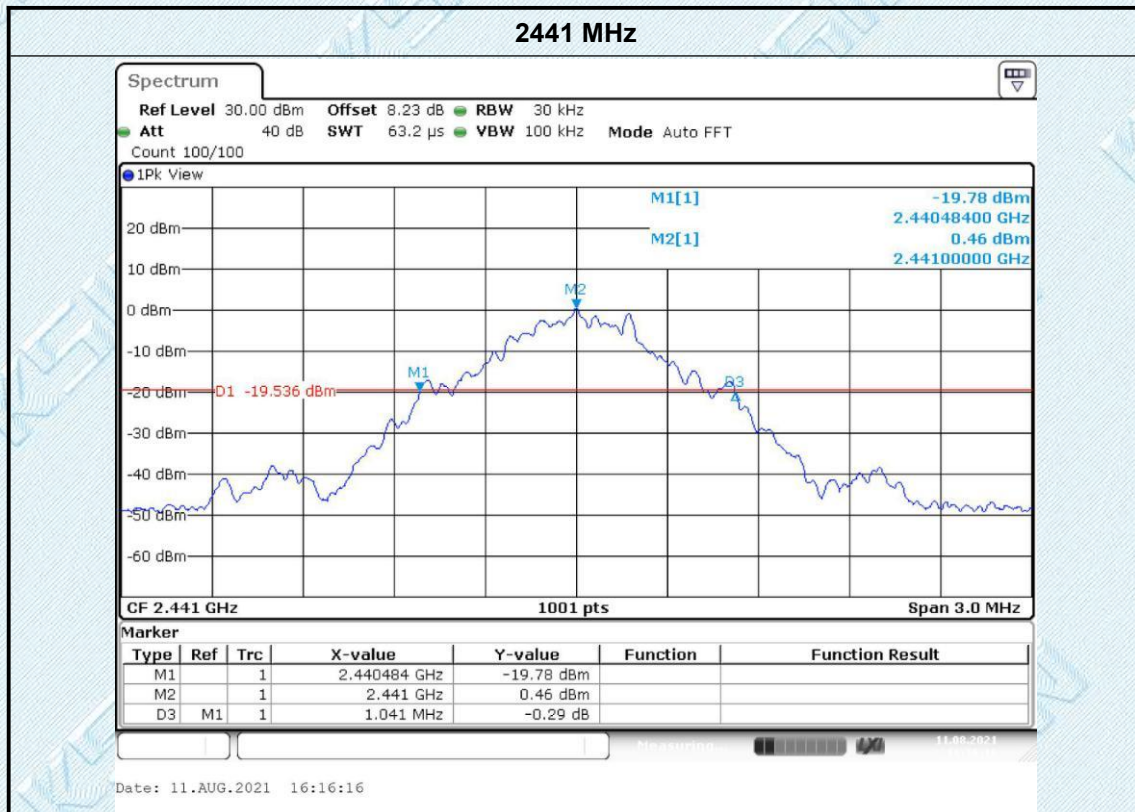
NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

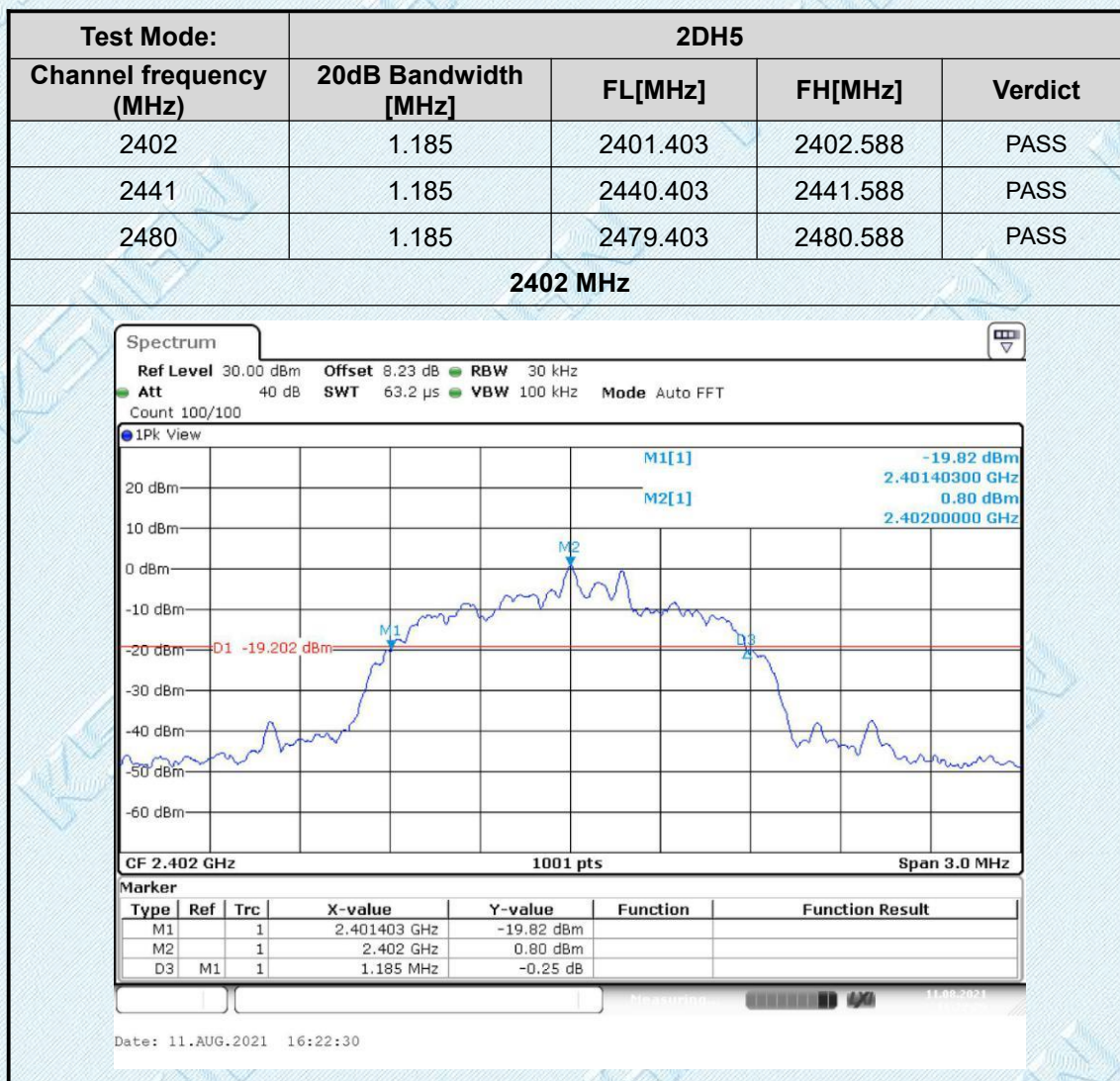
#### Test Mode

Please refer to the clause 2.2.

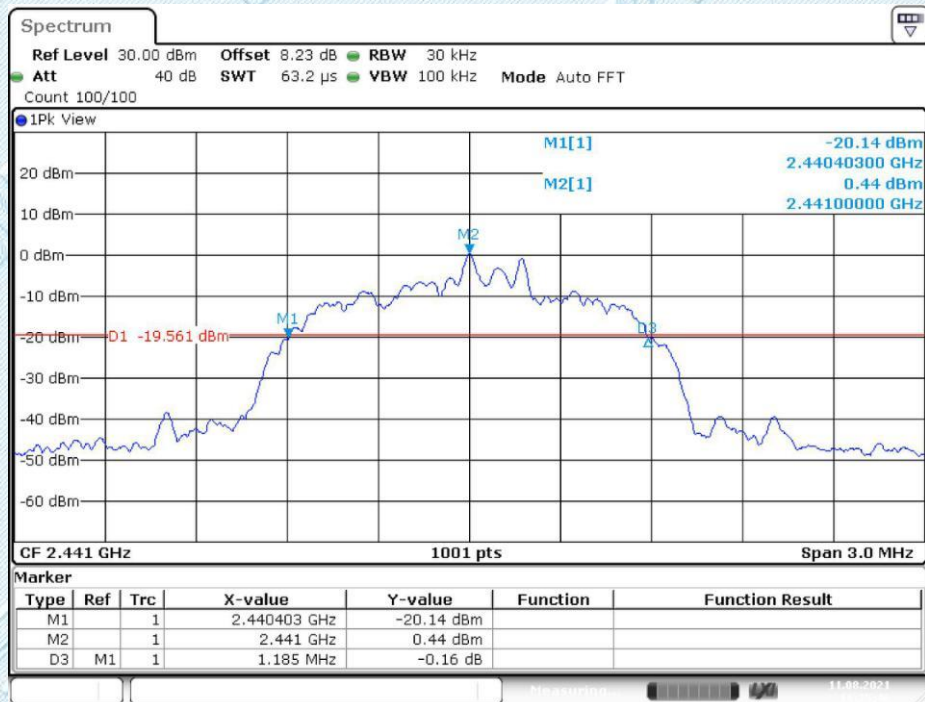
# Test Results





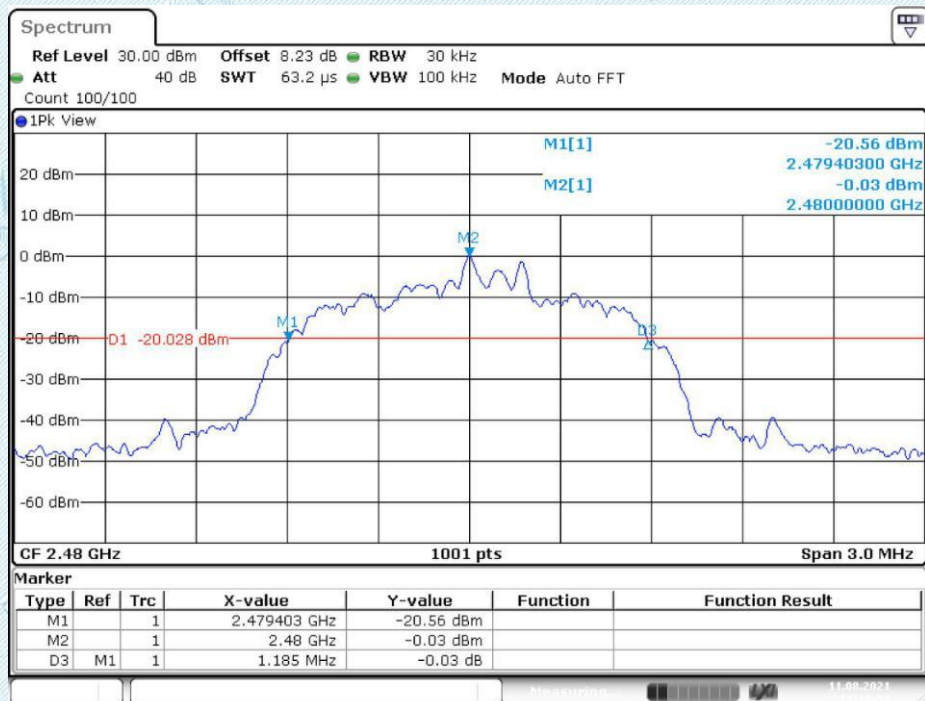


### 2441 MHz

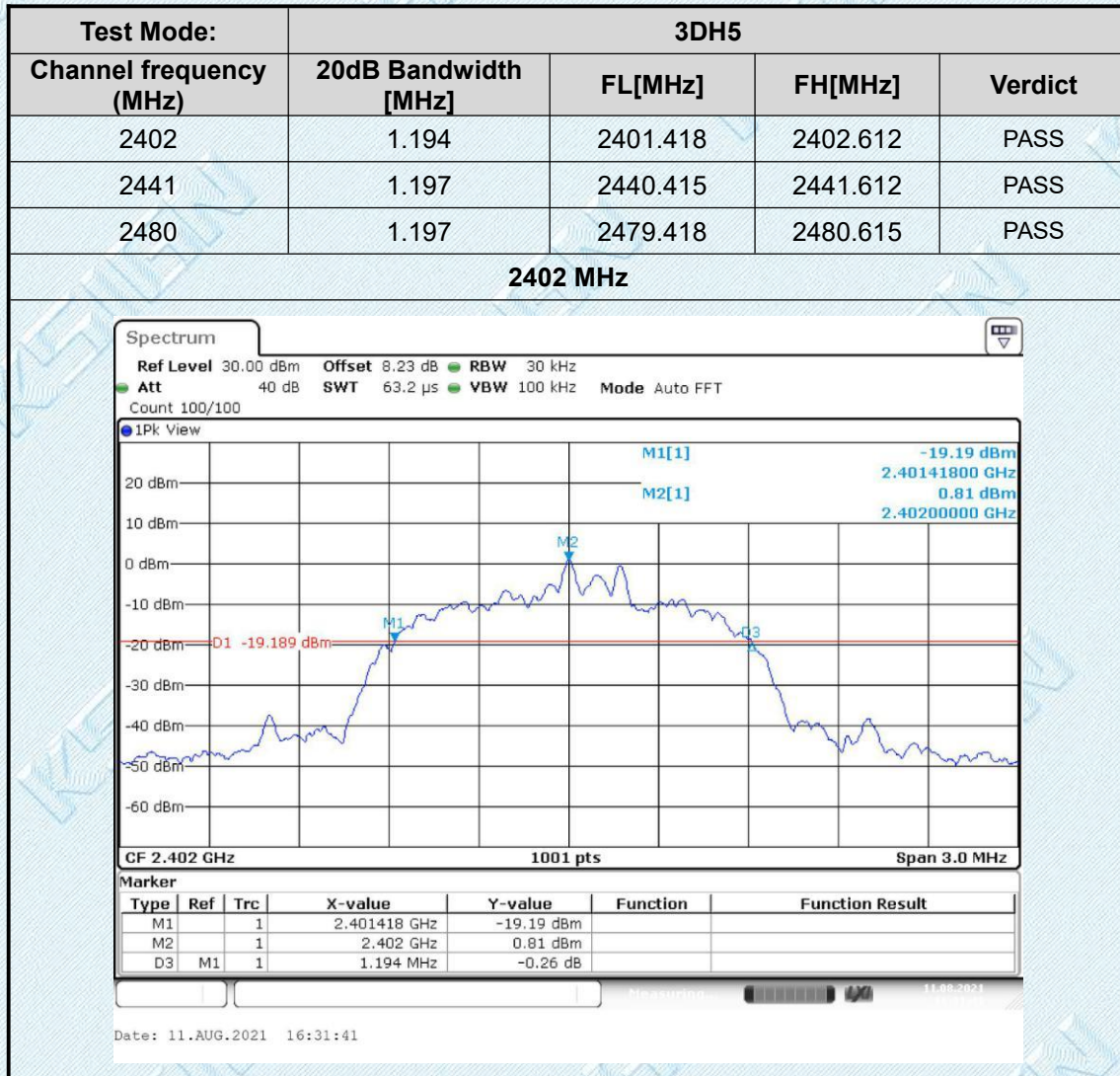


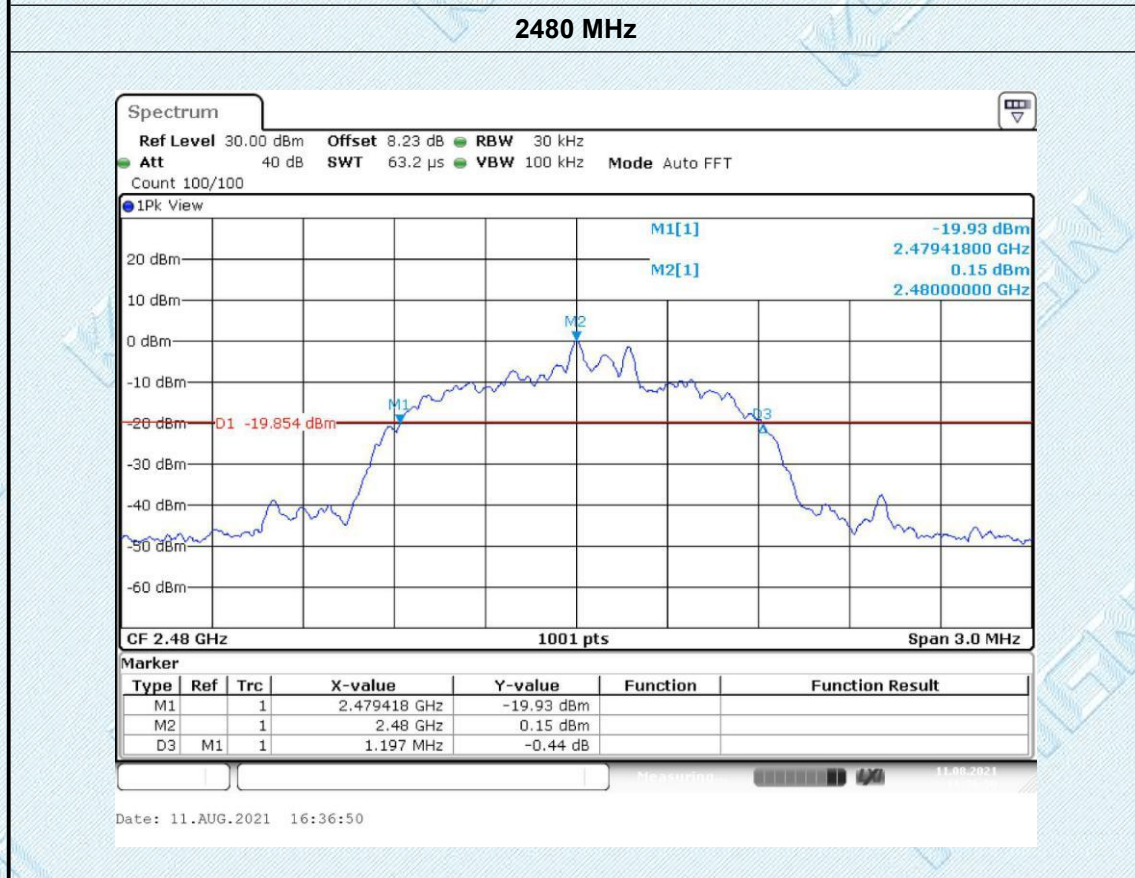
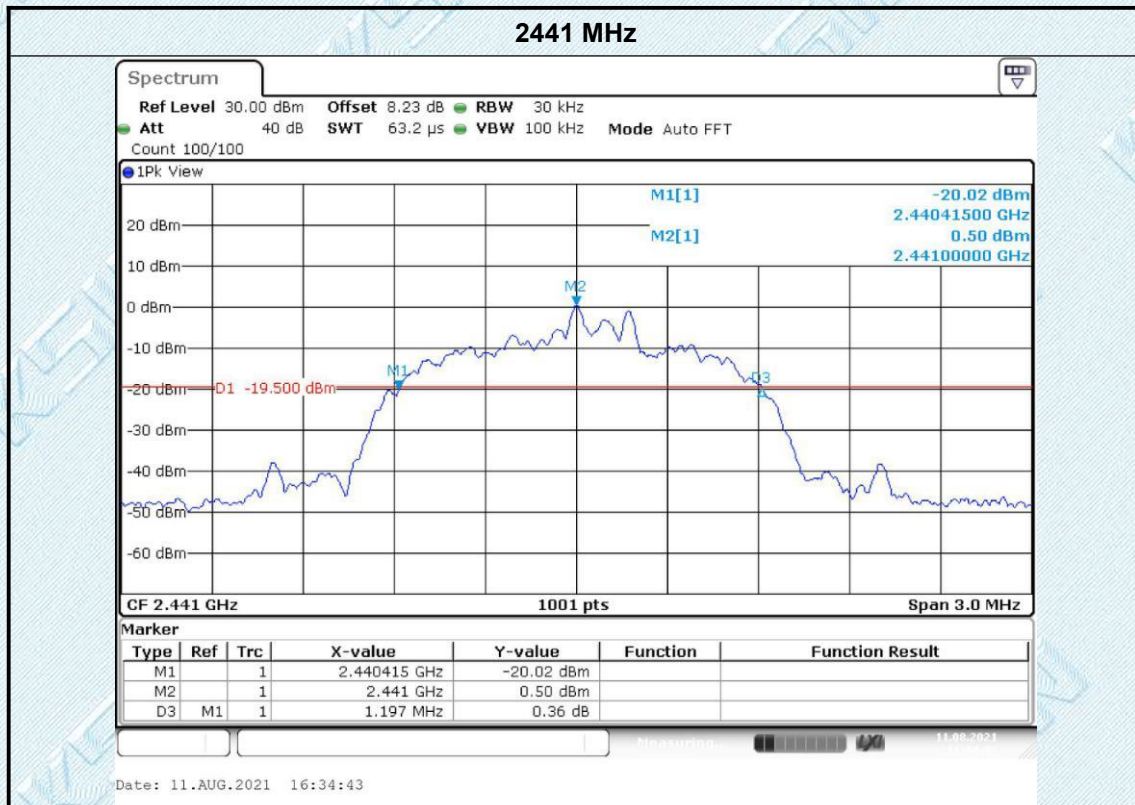
Date: 11.AUG.2021 16:25:46

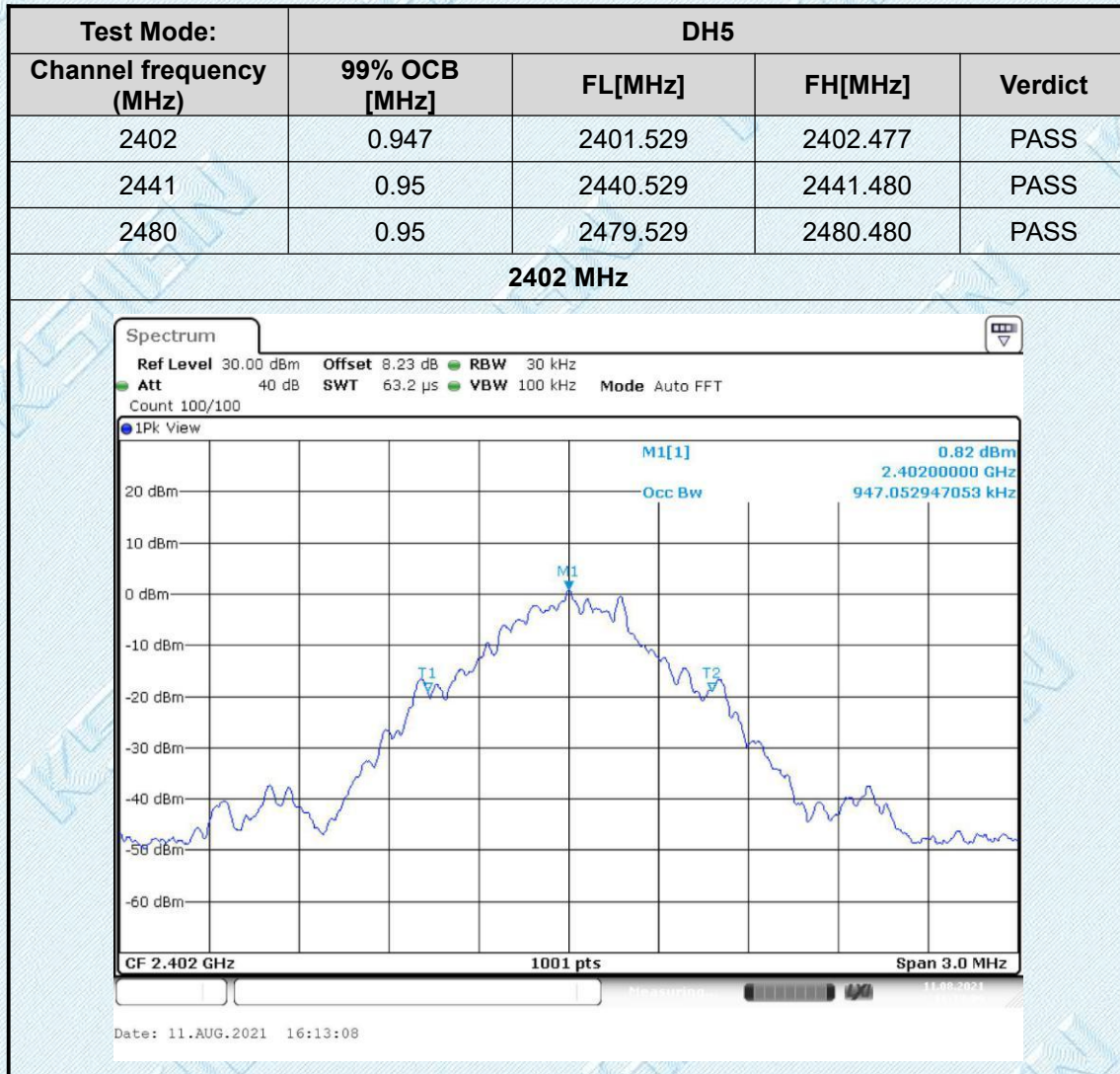
### 2480 MHz

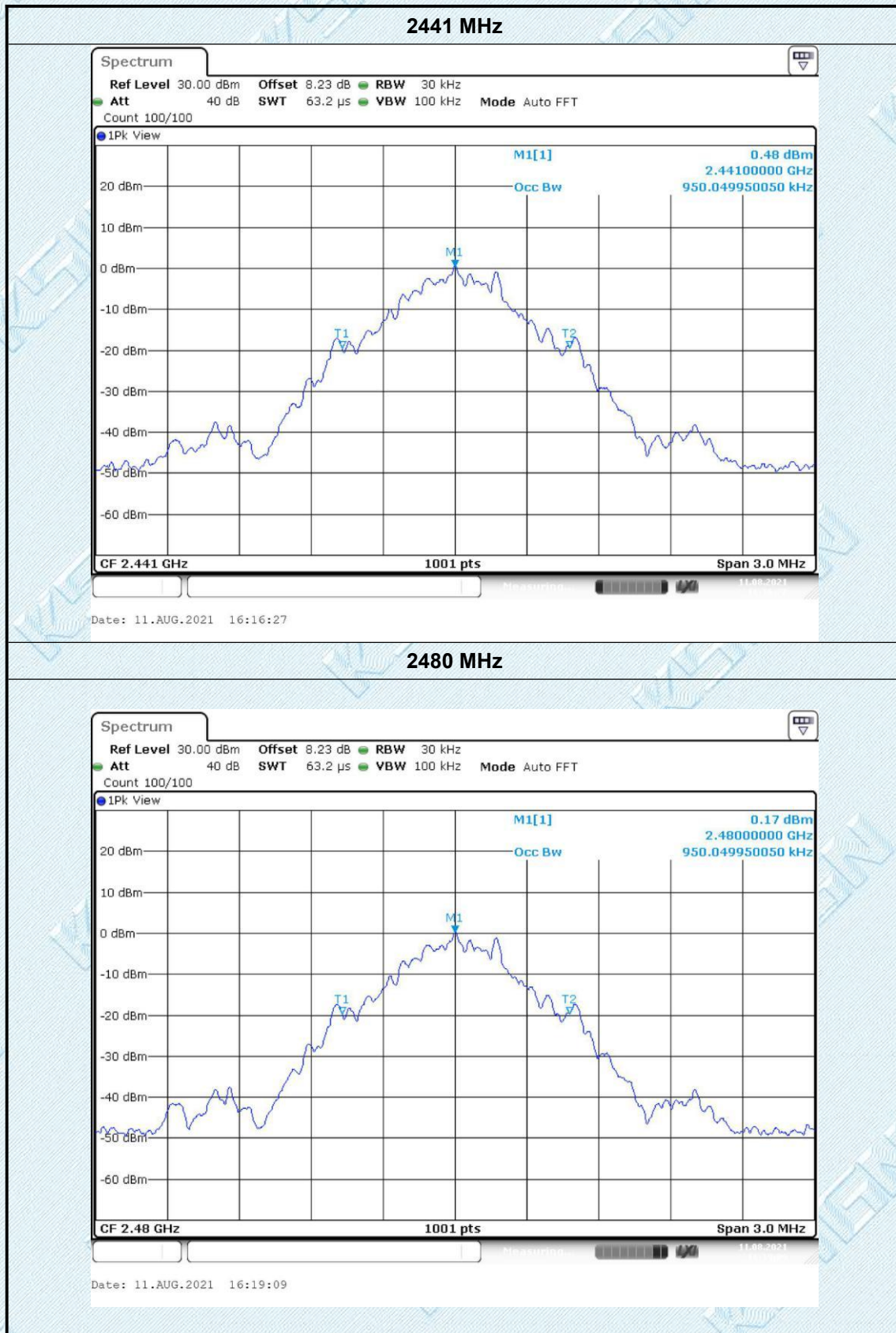


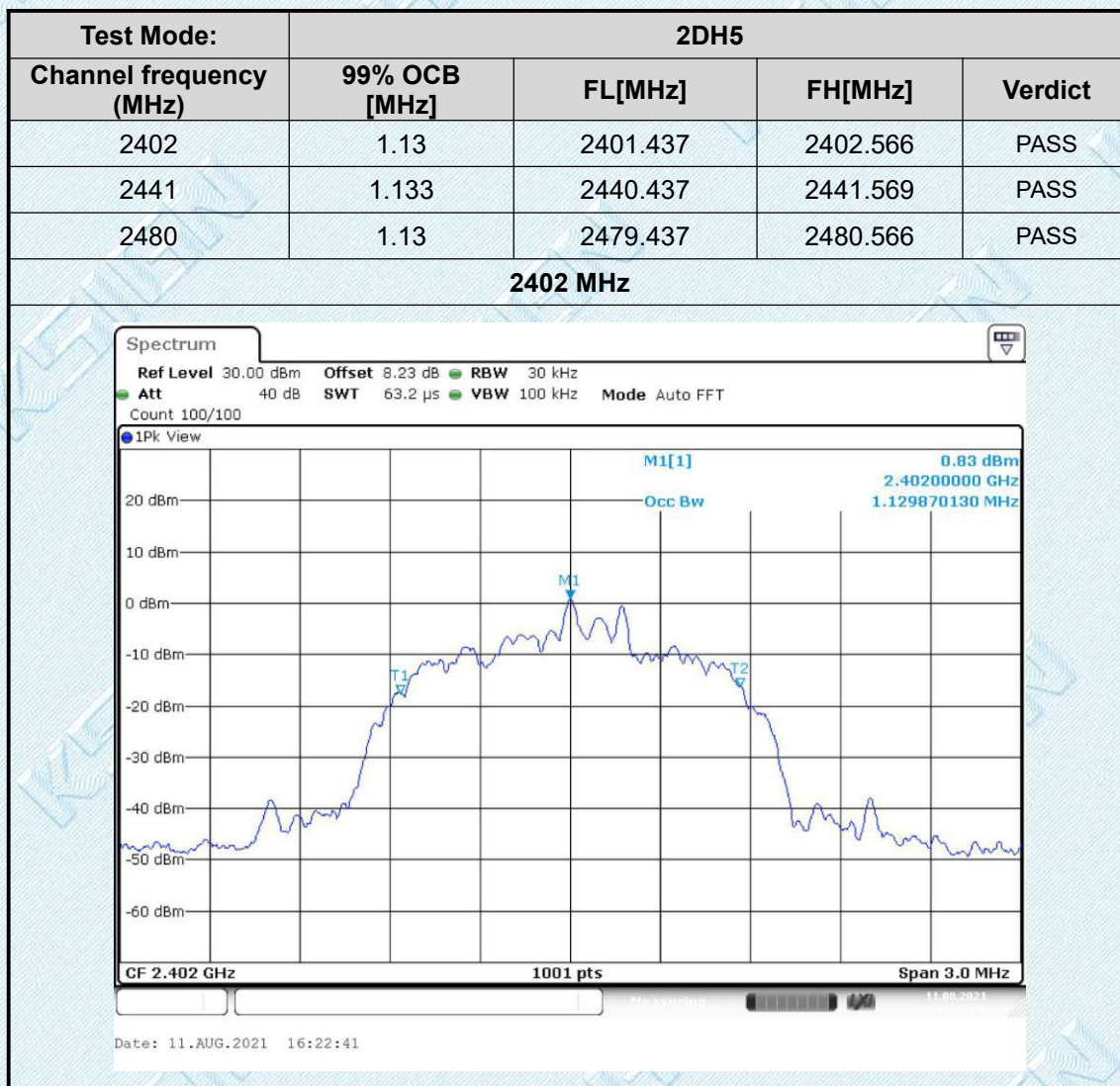
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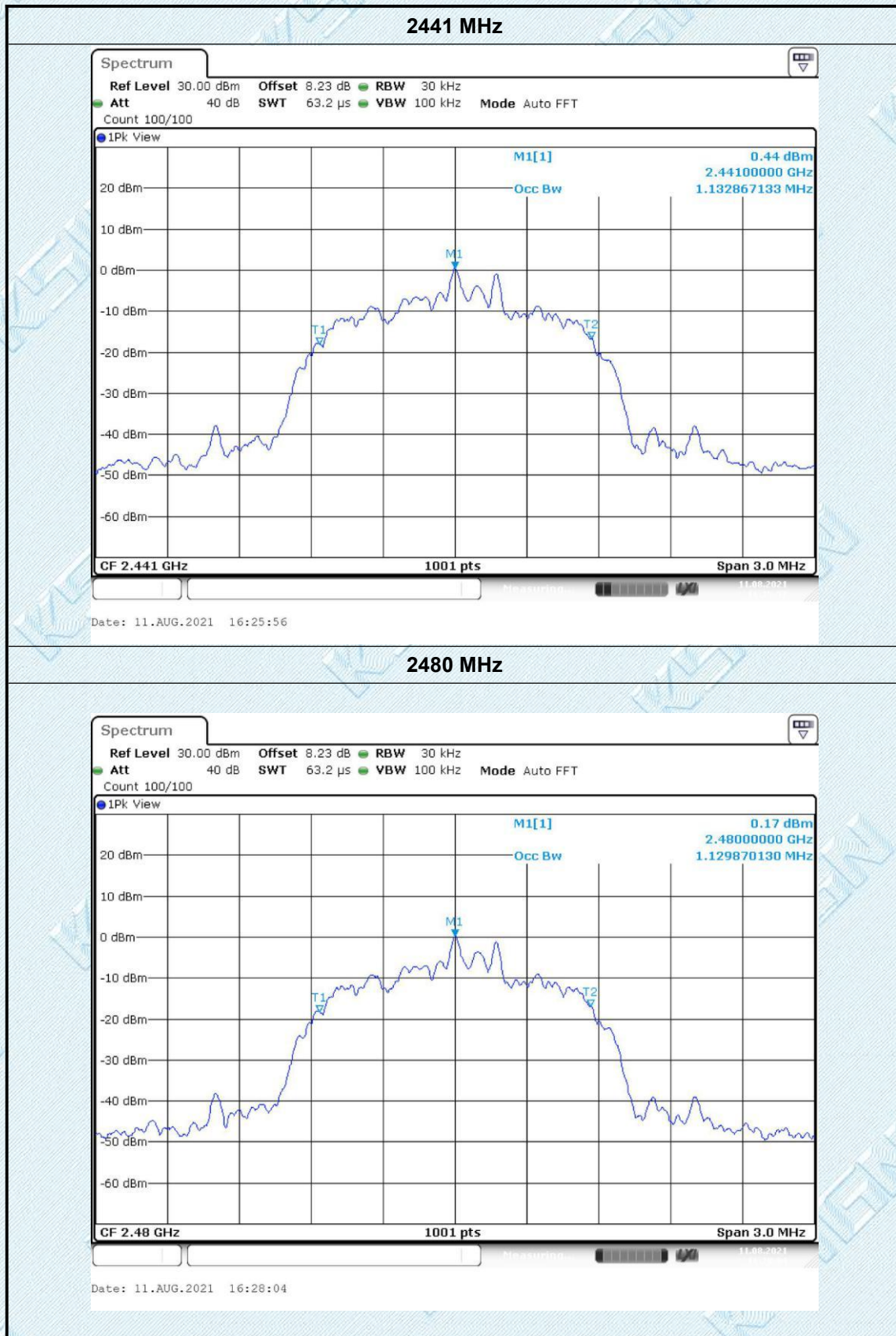


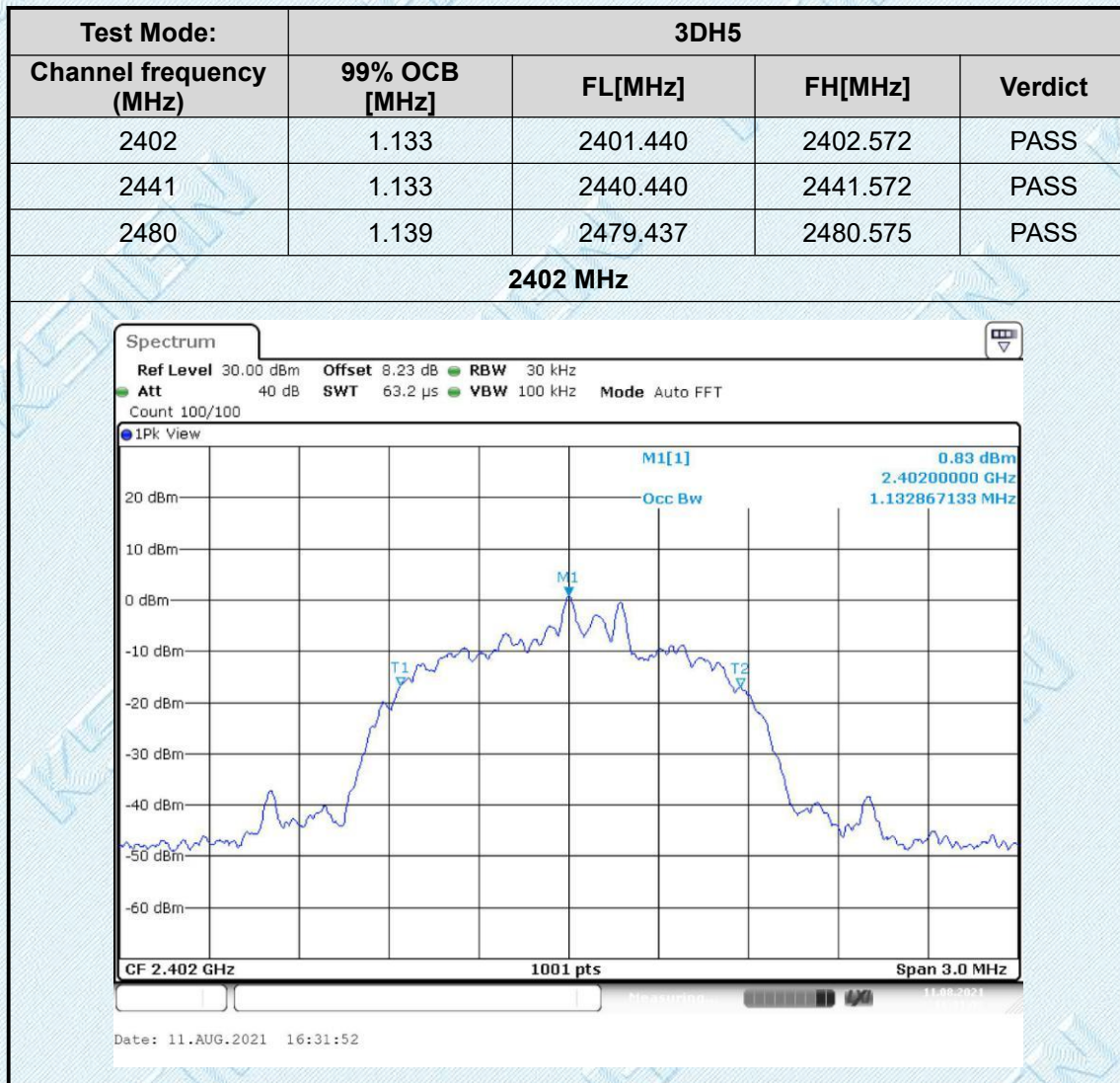














### 3.4. Carrier Frequencies Separation

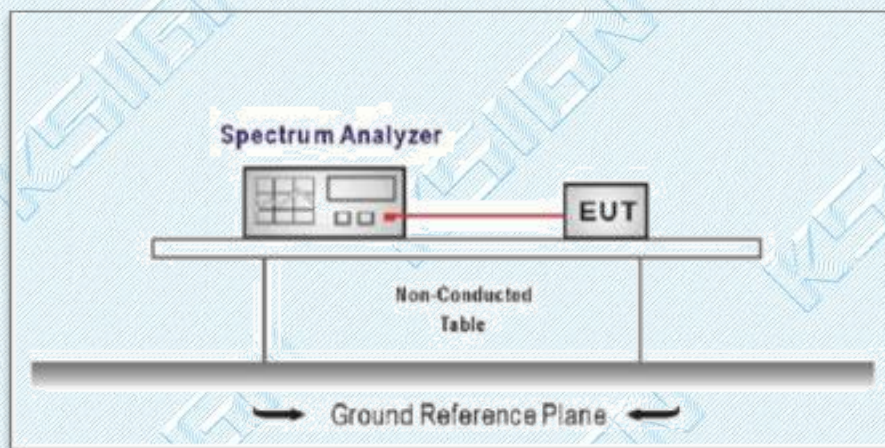
#### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25kHz or the  $\frac{2}{3} \times 20\text{dB}$  bandwidth of the hopping channel, whichever is greater.

| Test Item          | Limit                                                            | Frequency Range(MHz) |
|--------------------|------------------------------------------------------------------|----------------------|
| Channel Separation | >25KHz or >two-thirds of the 20 dB bandwidth<br>Which is greater | 2400~2483.5          |

#### Test Configuration



#### Test Procedure

1.Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.

2.Spectrum Setting:

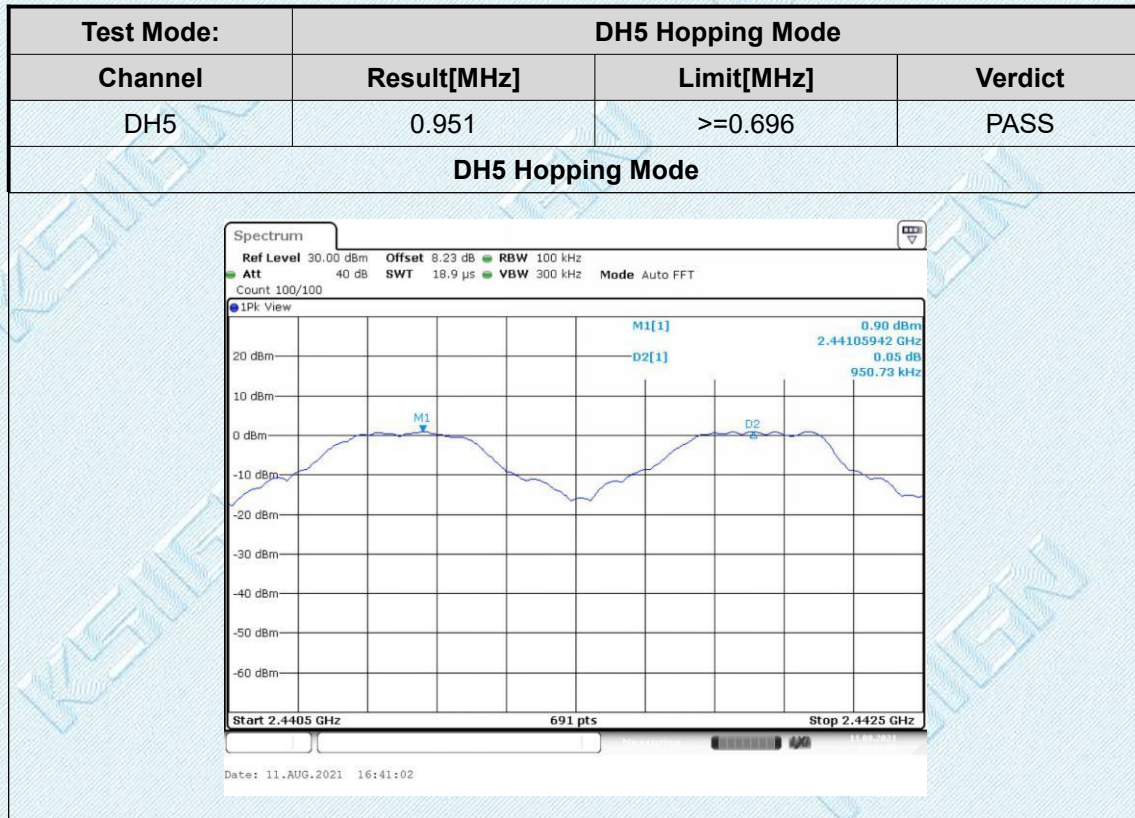
- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW)  $\geq 3$  RBW.
- (3) Detector = Peak.
- (4) Trace mode = Max hold.
- (5) Sweep = Auto couple.

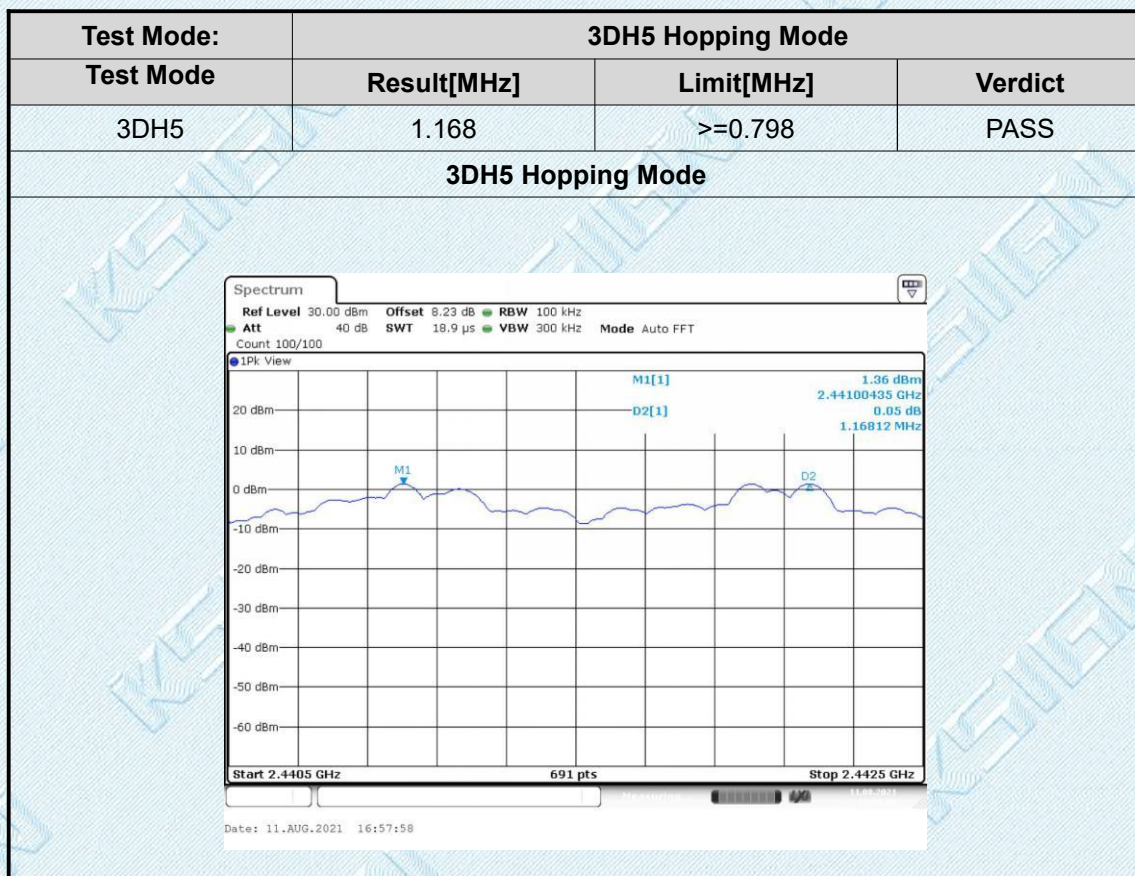
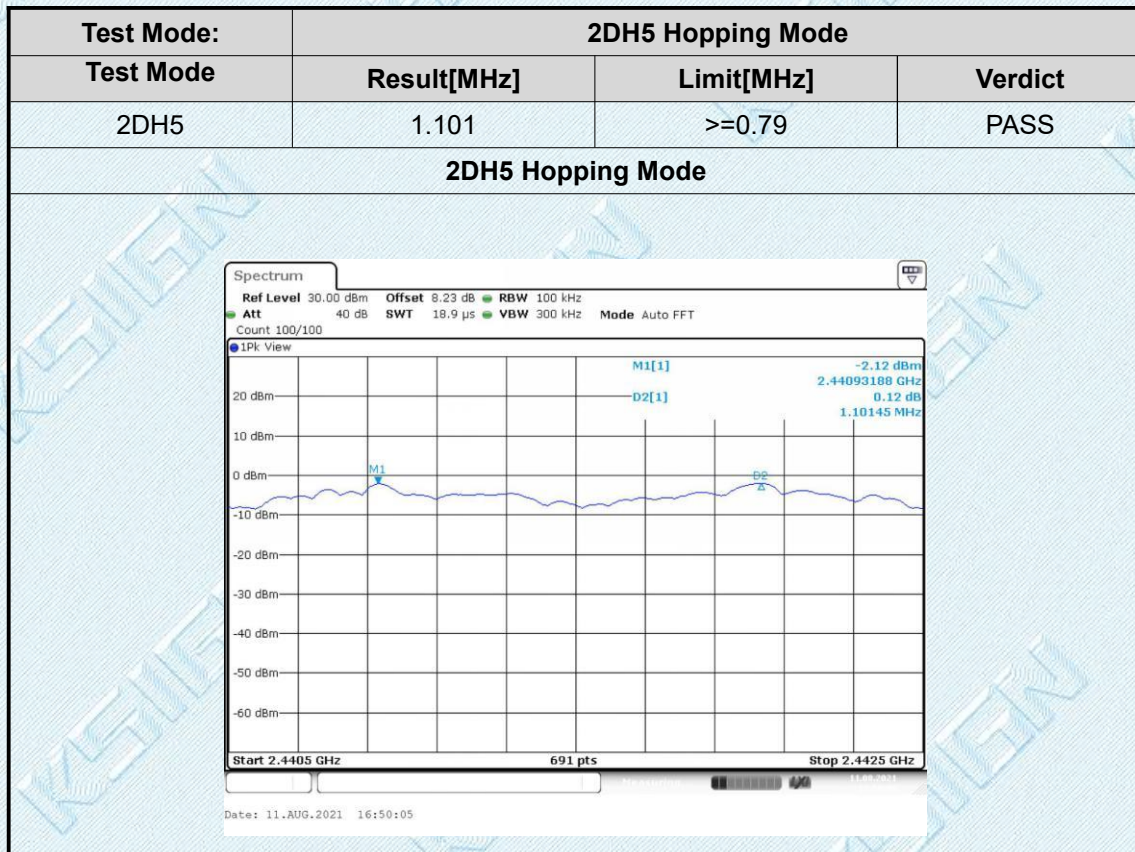
NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### Test Mode

Please refer to the clause 2.2.

## Test Results



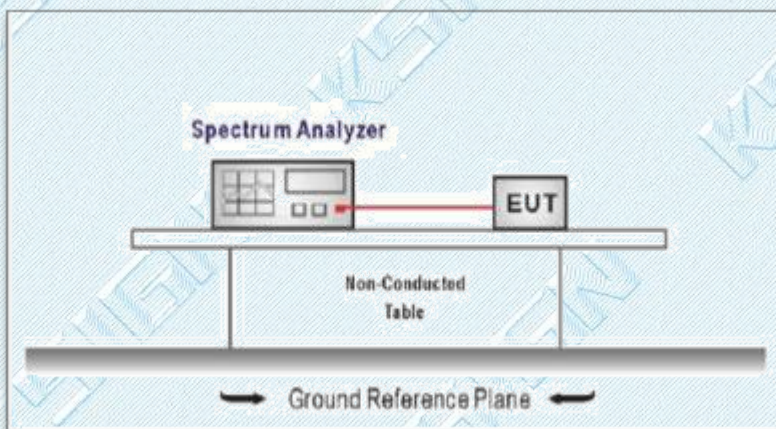


### 3.5. Number of Hopping Channel

#### Limit

| Section | Test Item                 | Limit |
|---------|---------------------------|-------|
| 15.247  | Number of Hopping Channel | >15   |

#### Test Configuration



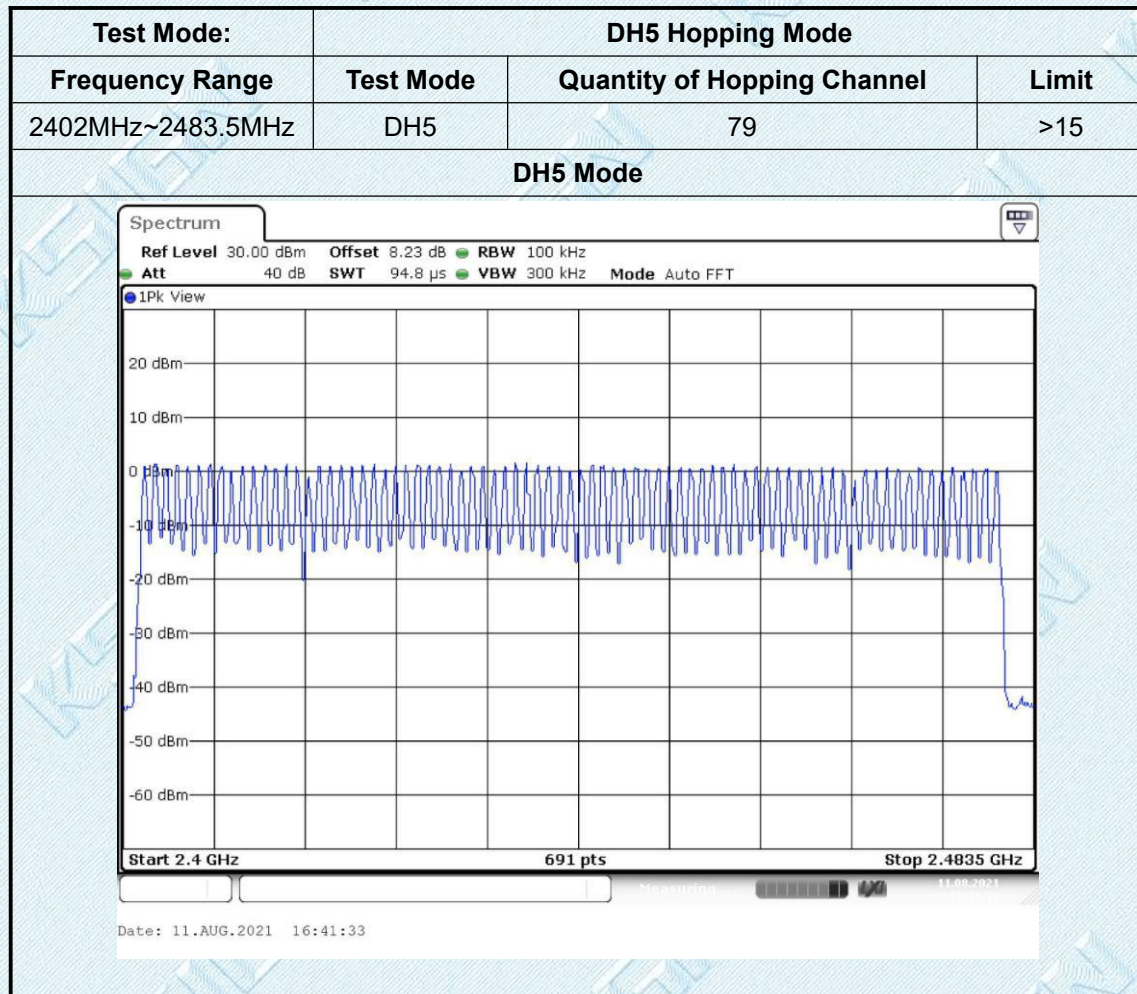
#### Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
  - (1) Peak Detector: RBW=100 kHz, VBW $\geq$ RBW, Sweep time= Auto.

#### Test Mode

Please refer to the clause 2.2.

## Test Result



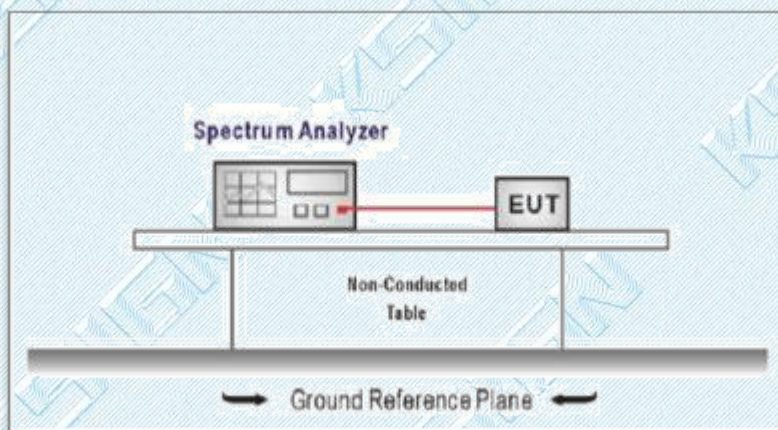
Note: The GFSK ( DH5 ) modulation is the worst case and recorded in the report.

### 3.6. Dwell Time

#### Limit

| Section      | Test Item                 | Limit   |
|--------------|---------------------------|---------|
| 15.247(a)(1) | Average Time of Occupancy | 0.4 sec |

#### Test Configuration



#### Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
  - (1) Spectrum Setting:  $RBW=1\text{MHz}$ ,  $VBW \geq RBW$ .
  - (2) Use video trigger with the trigger level set to enable triggering only on full pulses.
  - (3) Sweep Time is more than once pulse time.
  - (4) Set the center frequency on any frequency would be measure and set the frequency span to zero.
  - (5) Measure the maximum time duration of one single pulse.
  - (6) Set the EUT for packet transmitting.

#### Test Mode

Please refer to the clause 2.2

## Test Result

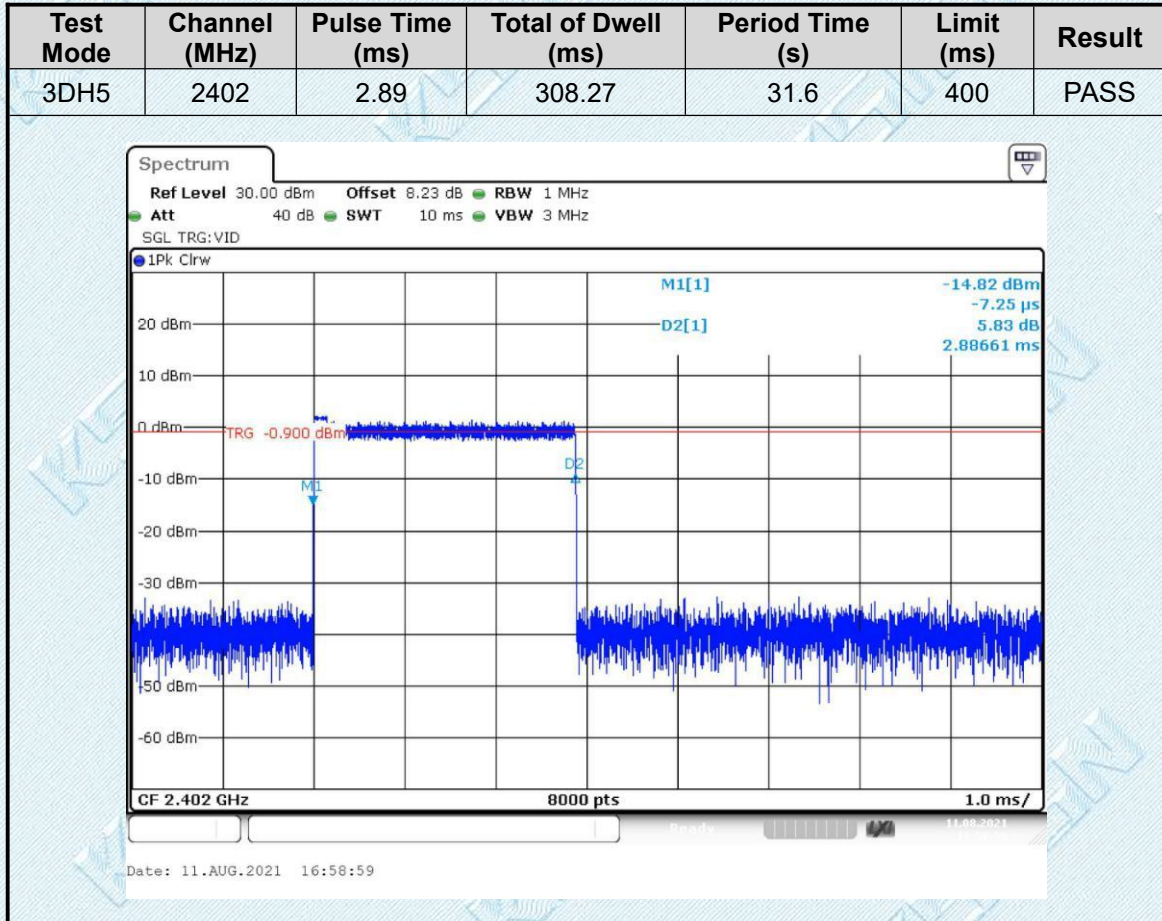
Note:

1.Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2DH1, 3DH1

Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second for DH3, 2DH3, 3DH3

Dwell time=Pulse time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second for DH5, 2DH5, 3DH5

2.The 3DH5 modulation is the worst case and recorded in the report .



| Test Mode | Channel (MHz) | Pulse Time (ms) | Total of Dwell (ms) | Period Time (s) | Limit (ms) | Result |
|-----------|---------------|-----------------|---------------------|-----------------|------------|--------|
| 3DH5      | 2480          | 2.89            | 308.27              | 31.6            | 400        | PASS   |

**Spectrum**

Ref Level 30.00 dBm Offset 8.23 dB RBW 1 MHz  
Att 40 dB SWT 10 ms VBW 3 MHz  
SGL TRG:VID

1Pk Clrw

CF 2.48 GHz 8000 pts 1.0 ms/

Date: 11.AUG.2021 17:00:49

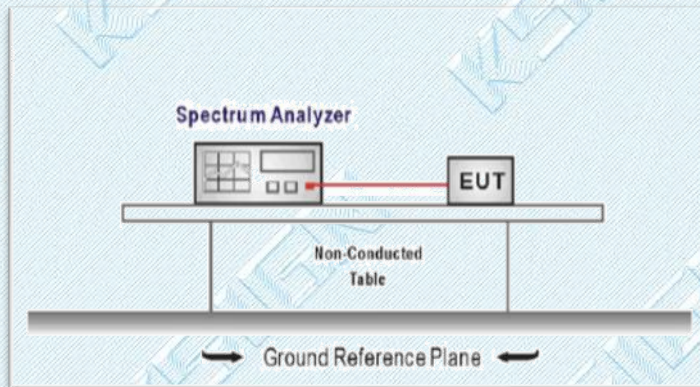
### 3.7. Band Edge and Spurious Emission (conducted)

#### LIMIT

#### **FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:  
 RBW=100KHz  
 VBW=3\*RBW.  
 Detector function: Peak.  
 Trace: Max hold.  
 Sweep = Auto couple.

Allow the trace to stabilize.

#### **TEST MODE:**

Please refer to the clause 2.2.

## TEST RESULTS

