



# FCC PART 15.247 TEST REPORT

For

Migear International Group LLC

34 West 33rd Street Suite 1007 New York, NY 10001

**FCC ID: 2AIDL-BX110**

|                                                                                                                                                                                                                                                                                                              |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Report Type:</b><br>Original Report                                                                                                                                                                                                                                                                       | <b>Product Type:</b><br>Bluetooth Speaker |
| <b>Report Number:</b> <u>SZNS211009-51815E-RF</u>                                                                                                                                                                                                                                                            |                                           |
| <b>Report Date:</b> <u>2021-10-18</u>                                                                                                                                                                                                                                                                        |                                           |
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                     |                                                      |
|-------------------------------------|------------------------------------------------------|
| Product                             | Bluetooth Speaker                                    |
| Tested Model No.                    | BX110                                                |
| Frequency Range                     | 2402~2480MHz                                         |
| Maximum conducted Peak output power | 4.24dBm                                              |
| Modulation Technique                | GFSK, $\pi/4$ -DQPSK, 8DPSK                          |
| Antenna Specification*              | Internal Antenna: 0.68dBi(provided by the applicant) |
| Voltage Range                       | DC 3.7V by battery or DC 5V from USB port.           |
| Date of Test                        | 2021-10-11 to 2021-10-14                             |
| Sample number                       | SZNS211009-51815E-RF-S1 (Assigned by ATC)            |
| Received date                       | 2021-10-09                                           |
| Sample/EUT Status                   | Good condition                                       |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### Measurement Uncertainty

| Parameter                          |                | Uncertainty |
|------------------------------------|----------------|-------------|
| AC Power Lines Conducted Emissions |                | 2.72dB      |
| Emissions,<br>Radiated             | 30MHz - 1GHz   | 4.28dB      |
|                                    | 1GHz- 18GHz    | 4.98dB      |
|                                    | 18GHz- 26.5GHz | 5.06dB      |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## **Test Facility**

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A-2.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in an engineering mode.

### EUT Exercise Software

Software “BT\_Tool V1.0.9”\* was used during testing and the power level was 7\*.

### Special Accessories

No special accessory.

### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

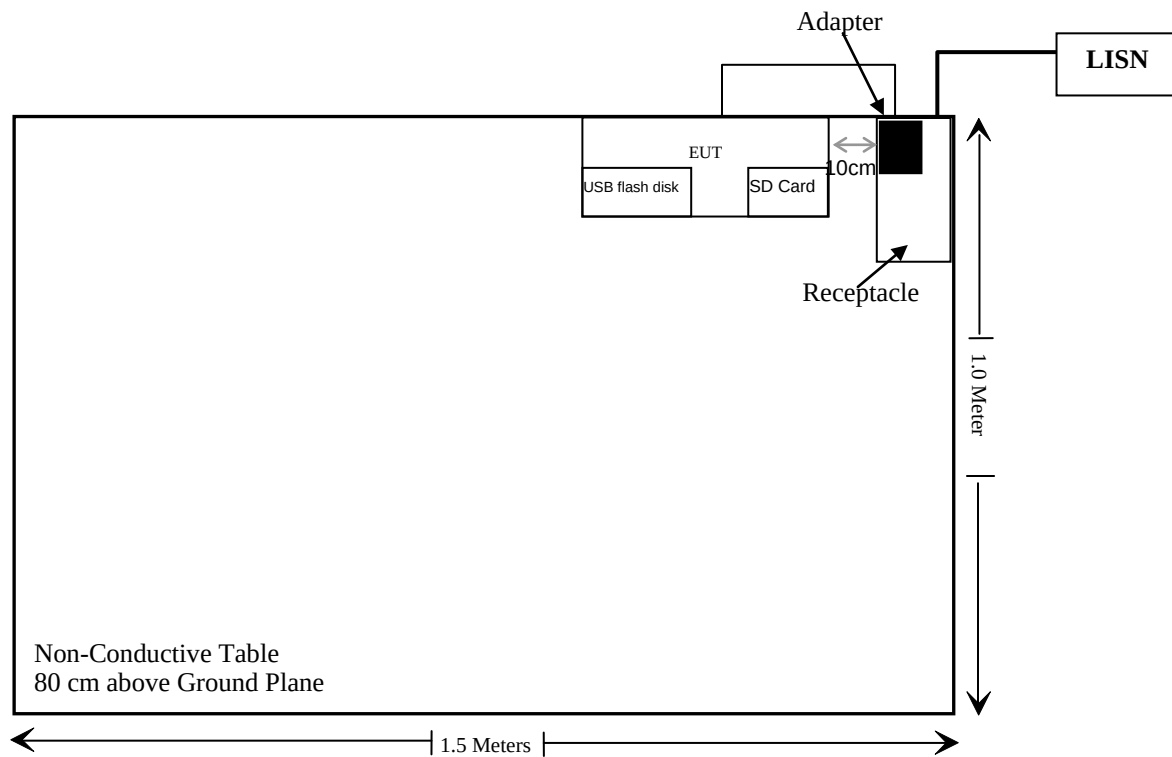
| Manufacturer | Description    | Model               | Serial Number |
|--------------|----------------|---------------------|---------------|
| W&T          | Adapter        | W&T-AD1806a050120UU | Unknown       |
| KINGSTON     | USB flash disk | Datatraveler G3     | Unknown       |
| Kingston     | SD Card        | SDCS2/32GB          | Unknown       |

### External I/O Cable

| Cable Description               | Length<br>(m) | From Port | To  |
|---------------------------------|---------------|-----------|-----|
| Unshielded Detachable USB Cable | 0.95          | Adapter   | EUT |

**Block Diagram of Test Setup**

For conducted emission:



## SUMMARY OF TEST RESULTS

| FCC Rules                                | Description of Test                               | Result    |
|------------------------------------------|---------------------------------------------------|-----------|
| FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 | RF Exposure                                       | Compliant |
| §15.203                                  | Antenna Requirement                               | Compliant |
| §15.207(a)                               | AC Line Conducted Emissions                       | Compliant |
| §15.205, §15.209 & §15.247(d)            | Radiated Emissions                                | Compliant |
| §15.247(a)(1)                            | 20 dB Emission Bandwidth & 99% Occupied Bandwidth | Compliant |
| §15.247(a)(1)                            | Channel Separation Test                           | Compliant |
| §15.247(a)(1)(iii)                       | Time of Occupancy (Dwell Time)                    | Compliant |
| §15.247(a)(1)(iii)                       | Quantity of hopping channel Test                  | Compliant |
| §15.247(b)(1)                            | Peak Output Power Measurement                     | Compliant |
| §15.247(d)                               | Band edges                                        | Compliant |



**TEST EQUIPMENT LIST**

| Manufacturer                                      | Description                  | Model                | Serial Number      | Calibration Date | Calibration Due Date |
|---------------------------------------------------|------------------------------|----------------------|--------------------|------------------|----------------------|
| Conducted Emissions Test                          |                              |                      |                    |                  |                      |
| Rohde& Schwarz                                    | Test Receiver                | ESPI3                | 100396             | 2020/12/24       | 2021/12/23           |
| R & S                                             | L.I.S.N.                     | ENV216               | 101314             | 2020/12/25       | 2021/12/24           |
| Anritsu Corp                                      | 50Ω Coaxial Switch           | MP59B                | 6200506474         | 2020/12/25       | 2021/12/24           |
| Unknown                                           | RF Coaxial Cable             | N-2m                 | No.2               | 2020/12/25       | 2021/12/24           |
| Conducted Emission Test Software: ES-K1 V1.71     |                              |                      |                    |                  |                      |
| Radiated Emissions Test                           |                              |                      |                    |                  |                      |
| Rohde&Schwarz                                     | Test Receiver                | ESR                  | 101817             | 2020/12/24       | 2021/12/23           |
| Rohde & Schwarz                                   | Spectrum Analyzer            | FSV-40               | 101495             | 2020/12/24       | 2021/12/23           |
| A.H. Systems, inc.                                | Preamplifier                 | PAM-0118P            | 531                | 2021/07/08       | 2022/07/07           |
| SONOMA INSTRUMENT                                 | Amplifier                    | 310 N                | 186131             | 2020/12/25       | 2021/12/24           |
| Quinstar                                          | Amplifier                    | QLW-184055<br>36-J0  | 15964001002        | 2020/11/28       | 2021/11/27           |
| Anritsu Corp                                      | 50 Coaxial Switch            | MP59B                | 6100237248         | 2020/12/25       | 2021/12/24           |
| Schwarzbeck                                       | Bilog Antenna                | VULB9163             | 9163-323           | 2020/01/04       | 2023/01/03           |
| Schwarzbeck                                       | Horn Antenna                 | BBHA9120D            | 9120D-1067         | 2020/01/05       | 2023/01/04           |
| OREGON SCIENTIFIC                                 | Temperature & Humidity Meter | JB913R               | GZ-WS004           | 2020/01/02       | 2023/01/01           |
| Schwarzbeck                                       | HORN ANTENNA                 | BBHA9170             | 9170-359           | 2020/01/05       | 2023/01/04           |
| Wainwright                                        | High Pass Filter             | WHKX3.6/18<br>G-10SS | 5                  | 2020/12/25       | 2021/12/24           |
| Unknown                                           | RF Coaxial Cable             | N-5m                 | No.3               | 2020/12/25       | 2021/12/24           |
| Unknown                                           | RF Coaxial Cable             | N-5m                 | No.4               | 2020/12/25       | 2021/12/24           |
| Unknown                                           | RF Coaxial Cable             | N-1m                 | No.5               | 2020/12/25       | 2021/12/24           |
| Unknown                                           | RF Coaxial Cable             | N-1m                 | No.6               | 2020/12/25       | 2021/12/24           |
| Radiated Emission Test Software: EZ EMC V 1.1.4.2 |                              |                      |                    |                  |                      |
| RF Conducted Test                                 |                              |                      |                    |                  |                      |
| Rohde&Schwarz                                     | Spectrum Analyzer            | FSV40                | 101495             | 2020/12/24       | 2021/12/23           |
| Rohde & Schwarz                                   | Open Switch and Control Unit | OSP120 +OSP<br>-B157 | 101244 +<br>100866 | 2020/12/24       | 2021/12/23           |

**\* Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE

### Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

1.  $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test Exclusion.

### Test Result:

For worst case:

| Mode      | Frequency<br>(MHz) | Maximum Tune-up<br>power |      | Calculated<br>Distance<br>(mm) | Calculated<br>Value | Threshold<br>(1-g SAR) | SAR Test<br>Exclusion |
|-----------|--------------------|--------------------------|------|--------------------------------|---------------------|------------------------|-----------------------|
|           |                    | (dBm)                    | (mW) |                                |                     |                        |                       |
| Bluetooth | 2480               | 4.5                      | 2.82 | 5                              | 0.9                 | 3.0                    | Yes                   |

Result: No Standalone SAR test is required

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## **FCC §15.203 – ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to FCC § 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 shall be considered sufficient to comply with the provisions of this Section. 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.

### **Antenna Connector Construction**

The EUT has one internal Antenna arrangement, which was permanently attached and the antenna gain is 0.68 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

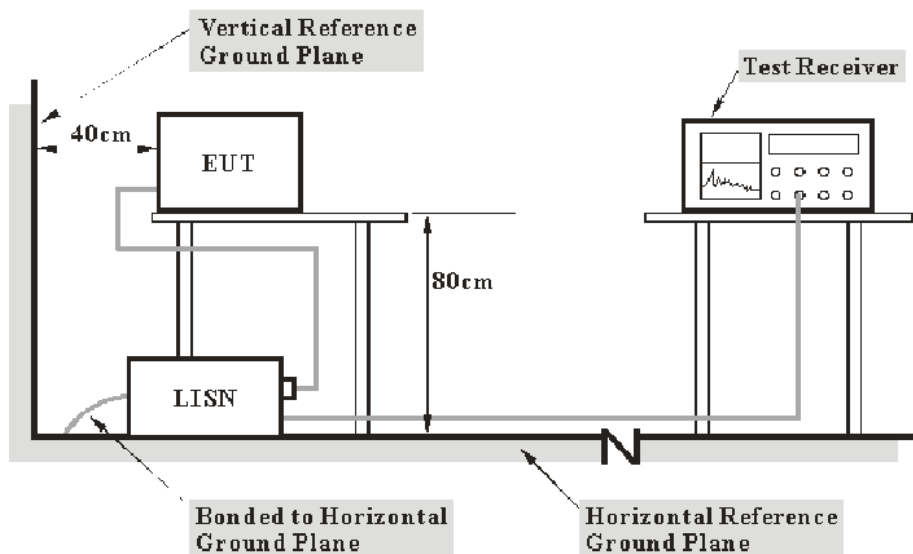
**Result:** Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a)

### EUT Setup



Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

## Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Transd Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\begin{aligned}\text{Margin} &= \text{Limit} - \text{level} \\ \text{Level} &= \text{reading level} + \text{Transd Factor}\end{aligned}$$

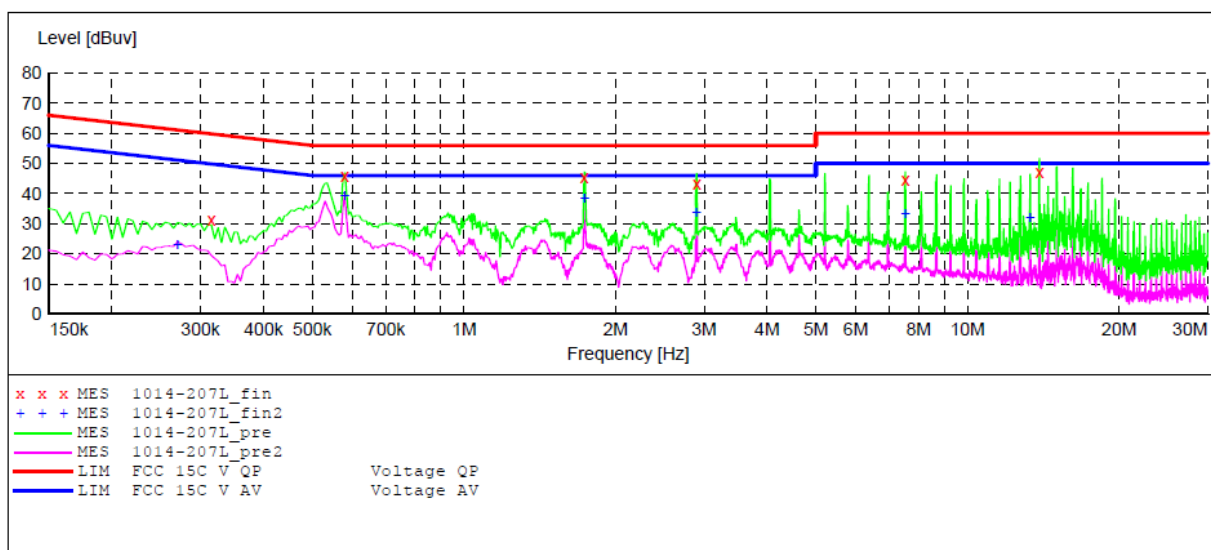
## Test Data

### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 24 °C     |
| <b>Relative Humidity:</b> | 48 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Fan Yang on 2021-10-14.*

*EUT operation mode: Transmitting (the worst case is 8DPSK Mode, Low channel)*

**AC 120V/60 Hz, Line****MEASUREMENT RESULT: "1014-207L\_fin"**

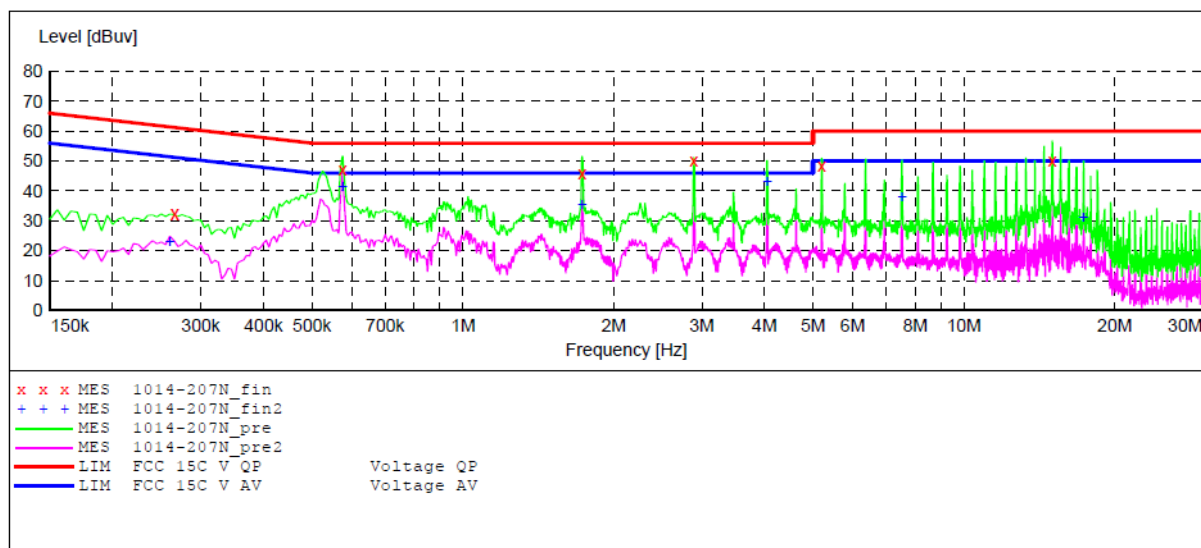
2021-10-14 07:01

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.315000         | 31.60         | 10.9         | 60            | 28.4         | QP       | L1   | GND |
| 0.580000         | 45.70         | 11.0         | 56            | 10.3         | QP       | L1   | GND |
| 1.735000         | 45.50         | 11.2         | 56            | 10.5         | QP       | L1   | GND |
| 2.900000         | 43.50         | 11.3         | 56            | 12.5         | QP       | L1   | GND |
| 7.530000         | 44.50         | 11.5         | 60            | 15.5         | QP       | L1   | GND |
| 13.900000        | 47.40         | 11.6         | 60            | 12.6         | QP       | L1   | GND |

**MEASUREMENT RESULT: "1014-207L\_fin2"**

2021-10-14 07:01

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.270000         | 23.00         | 10.9         | 51            | 28.0         | AV       | L1   | GND |
| 0.580000         | 39.50         | 11.0         | 46            | 6.5          | AV       | L1   | GND |
| 1.735000         | 38.70         | 11.2         | 46            | 7.3          | AV       | L1   | GND |
| 2.900000         | 34.00         | 11.3         | 46            | 12.0         | AV       | L1   | GND |
| 7.530000         | 33.40         | 11.5         | 50            | 16.6         | AV       | L1   | GND |
| 13.325000        | 32.20         | 11.6         | 50            | 17.8         | AV       | L1   | GND |

**AC 120V/60 Hz, Neutral****MEASUREMENT RESULT: "1014-207N\_fin"**

2021-10-14 06:59

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.275000         | 32.40         | 10.9         | 61            | 28.6         | QP       | N    | GND |
| 0.575000         | 47.20         | 11.0         | 56            | 8.8          | QP       | N    | GND |
| 1.730000         | 45.70         | 11.2         | 56            | 10.3         | QP       | N    | GND |
| 2.890000         | 50.00         | 11.3         | 56            | 6.0          | QP       | N    | GND |
| 5.200000         | 48.60         | 11.4         | 60            | 11.4         | QP       | N    | GND |
| 15.025000        | 50.30         | 11.6         | 60            | 9.7          | QP       | N    | GND |

**MEASUREMENT RESULT: "1014-207N\_fin2"**

2021-10-14 06:59

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.260000         | 23.00         | 10.9         | 51            | 28.0         | AV       | N    | GND |
| 0.575000         | 41.70         | 11.0         | 46            | 4.3          | AV       | N    | GND |
| 1.730000         | 35.80         | 11.2         | 46            | 10.2         | AV       | N    | GND |
| 4.050000         | 43.50         | 11.4         | 46            | 2.5          | AV       | N    | GND |
| 7.530000         | 38.10         | 11.5         | 50            | 11.9         | AV       | N    | GND |
| 17.350000        | 31.40         | 11.7         | 50            | 18.6         | AV       | N    | GND |

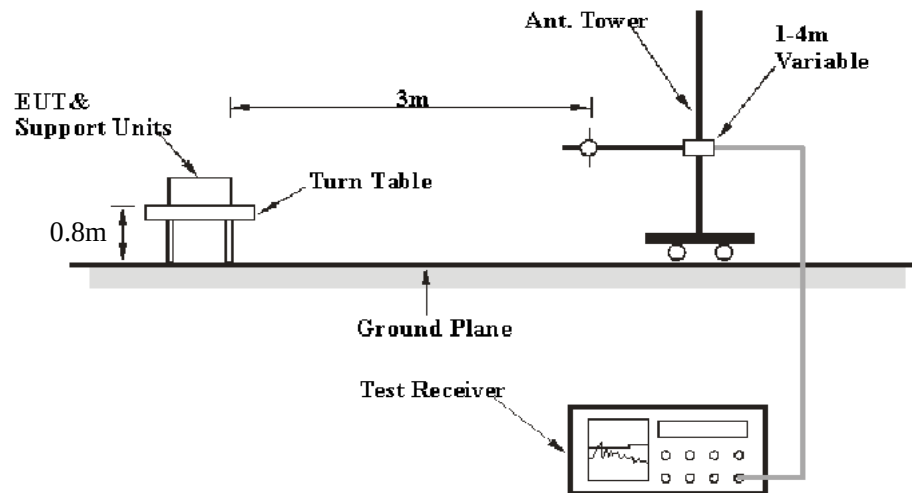
## FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

### Applicable Standard

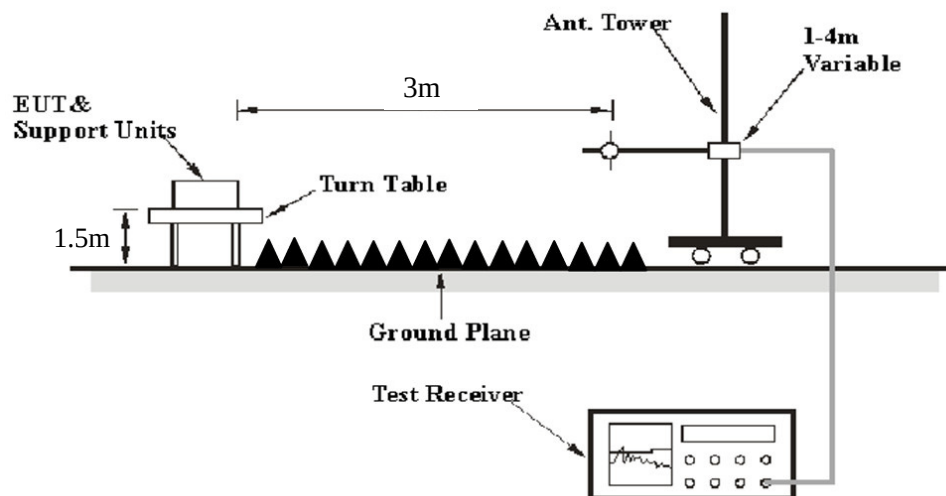
FCC §15.205; §15.209; §15.247(d)

### EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits.



## EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz   | 120 kHz | QP          |
| Above 1 GHz       | 1 MHz   | 3 MHz     | /       | PK          |
|                   | 1 MHz   | 10 Hz     | /       | Average     |

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

## Factor & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\begin{aligned} \text{Margin} &= \text{Result} / \text{Absolute Level} - \text{Limit} \\ \text{Result} / \text{Absolute Level} &= \text{Reading} + \text{Factor} \end{aligned}$$

## Test Data

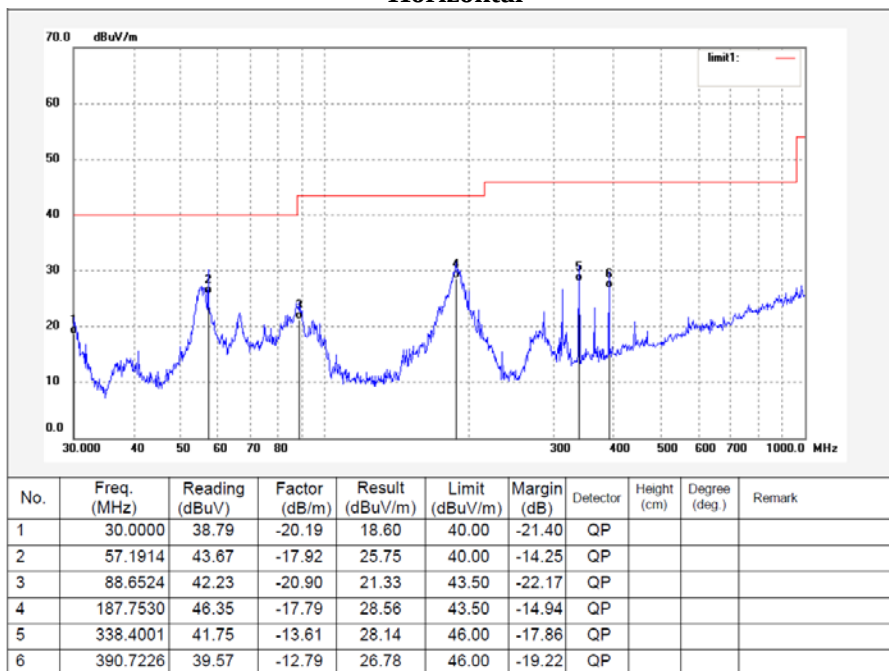
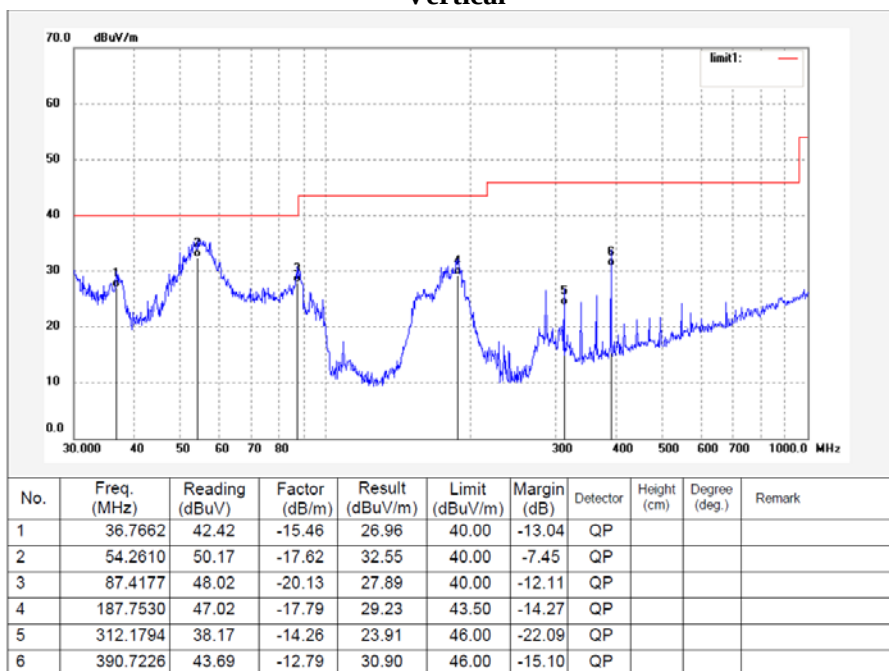
### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Fan Yang on 2021-10-11 for below 1GHz and 2021-10-13 for above 1GHz.

EUT operation mode: Transmitting

(Scan with GFSK,  $\pi/4$ -DQPSK, 8DPSK mode, the worst case is 8DPSK Mode)

**Below 1GHz: 8DPSK Mode, Low channel****Horizontal****Vertical**

**Above 1GHz (worst case):**

| Frequency<br>(MHz) | Receiver          |       | Turntable<br>Angle | Rx Antenna |       | Factor<br>(dB/m) | Absolute<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|--------------------|------------|-------|------------------|-------------------------------|-------------------|----------------|
|                    | Reading<br>(dBuV) | PK/AV | Degree             | Height     | Polar |                  |                               |                   |                |
|                    |                   |       |                    | (m)        | (H/V) |                  |                               |                   |                |
| Low Channel        |                   |       |                    |            |       |                  |                               |                   |                |
| 2310               | 45.37             | PK    | 347                | 2.1        | H     | -6.84            | 38.53                         | 74                | -35.47         |
| 2310               | 44.22             | PK    | 15                 | 1.2        | V     | -6.84            | 37.38                         | 74                | -36.62         |
| 2390               | 46.15             | PK    | 54                 | 1          | H     | -6.44            | 39.71                         | 74                | -34.29         |
| 2390               | 45.58             | PK    | 10                 | 1.1        | V     | -6.44            | 39.14                         | 74                | -34.86         |
| 4804               | 55.31             | PK    | 176                | 1.4        | H     | 2.81             | 58.12                         | 74                | -15.88         |
| 4804               | 42.28             | AV    | 176                | 1.4        | H     | 2.81             | 45.09                         | 54                | -8.91          |
| 4804               | 50.75             | PK    | 318                | 1.6        | V     | 2.81             | 53.56                         | 74                | -20.44         |
| Middle Channel     |                   |       |                    |            |       |                  |                               |                   |                |
| 4882               | 54.97             | PK    | 253                | 1.0        | H     | 3.04             | 58.01                         | 74                | -15.99         |
| 4882               | 41.10             | AV    | 253                | 1          | H     | 3.04             | 44.14                         | 54                | -9.86          |
| 4882               | 50.22             | PK    | 15                 | 1.9        | V     | 3.04             | 53.26                         | 74                | -20.74         |
| High Channel       |                   |       |                    |            |       |                  |                               |                   |                |
| 2483.5             | 44.14             | PK    | 259                | 1.2        | H     | -5.96            | 38.18                         | 74                | -35.82         |
| 2483.5             | 42.71             | PK    | 49                 | 2          | V     | -5.96            | 36.75                         | 74                | -37.25         |
| 2500               | 44.81             | PK    | 236                | 1.4        | H     | -5.88            | 38.93                         | 74                | -35.07         |
| 2500               | 44.96             | PK    | 129                | 1.7        | V     | -5.88            | 39.08                         | 74                | -34.92         |
| 4960               | 53.81             | PK    | 115                | 2.1        | H     | 3.29             | 57.10                         | 74                | -16.9          |
| 4960               | 40.13             | AV    | 115                | 2.1        | H     | 3.29             | 43.42                         | 54                | -10.58         |
| 4960               | 49.85             | PK    | 25                 | 2.1        | V     | 3.29             | 53.14                         | 74                | -20.86         |

Note:

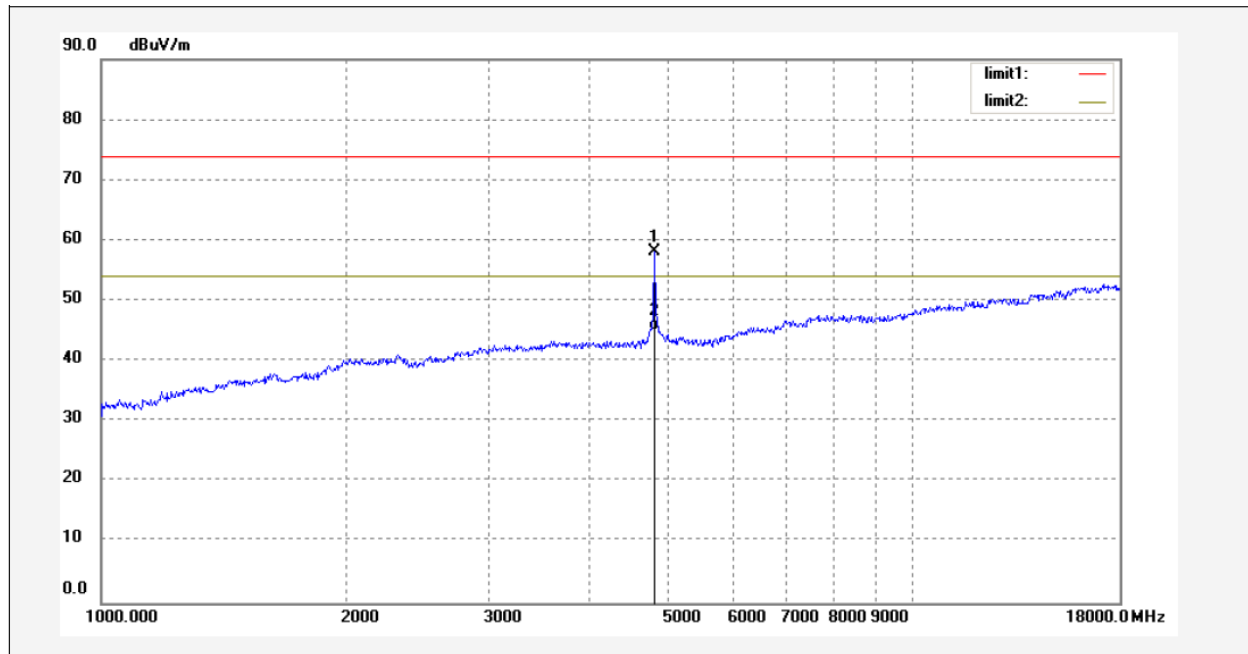
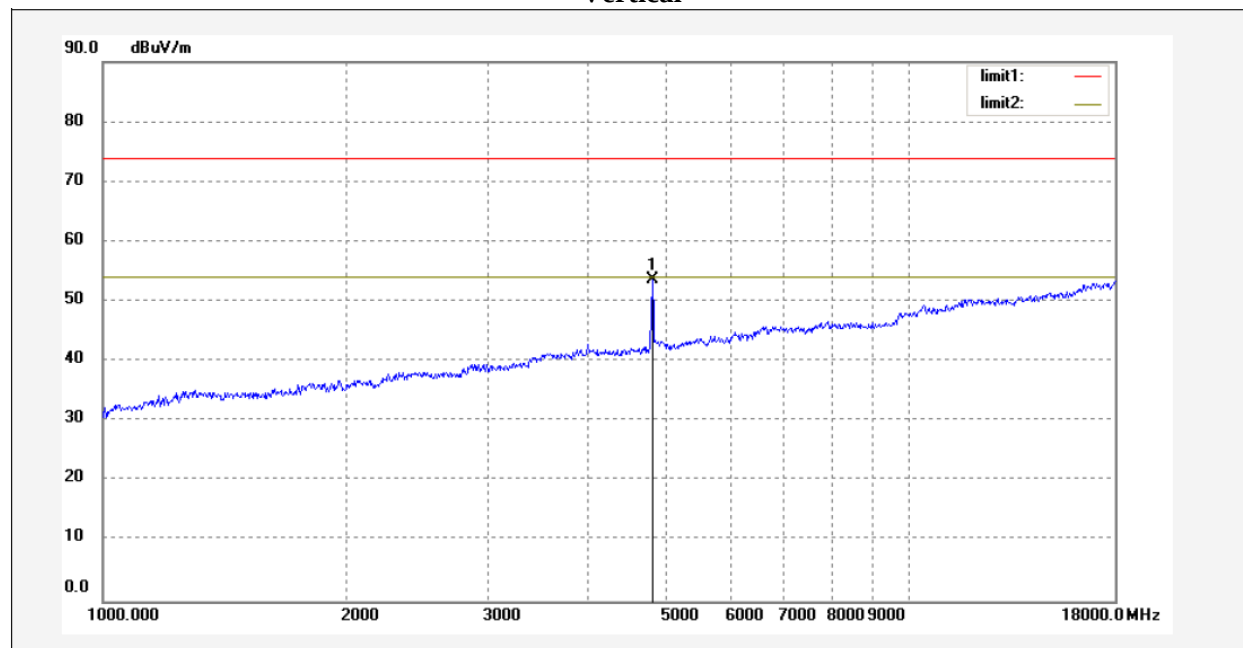
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level - Limit

The other spurious emission which is 20dB below to the limit was not recorded.

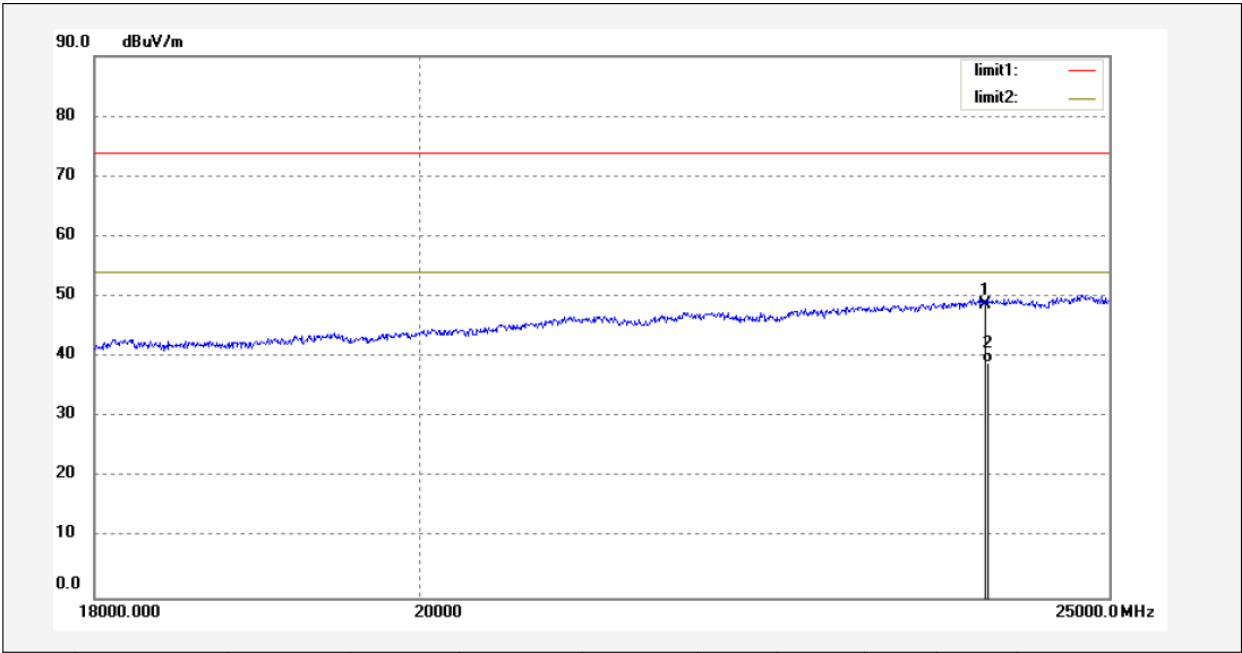
The test result of peak was less than the limit of average, so just peak value were recorded.

**1 GHz - 18 GHz: (Pre-Scan plots)****Low Channel****Horizontal****Vertical**

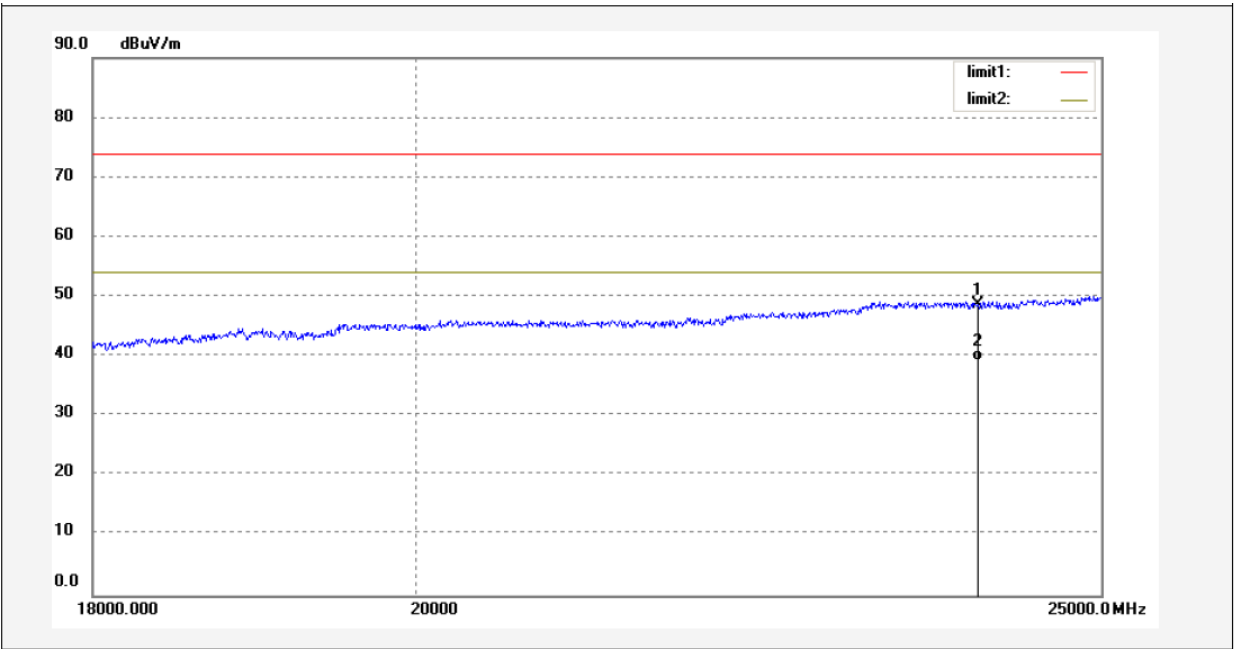
18-25GHz: (Pre-Scan plots)

Low Channel

Horizontal



Vertical



## FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

### Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

### Test Procedure

1. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace.
3. Measure the channel separation.

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Fan Yang on 2021-10-13

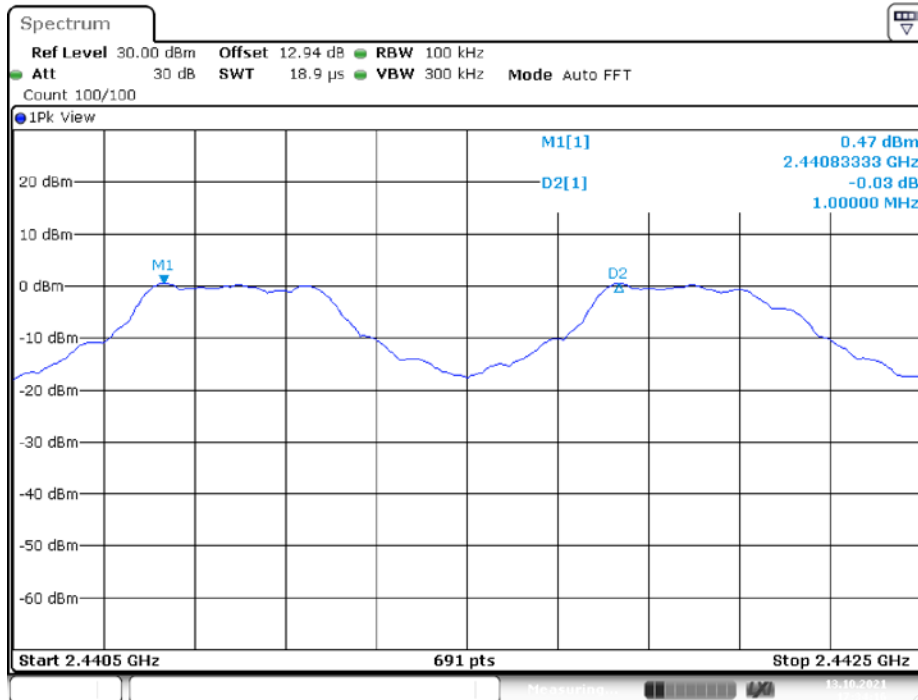
EUT operation mode: Transmitting

Test Result: Compliant.

| Test Mode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|-----------|---------|---------|-------------|--------------|---------|
| DH1       | Ant1    | Hop     | 1           | $\geq 0.560$ | PASS    |
| 2DH1      | Ant1    | Hop     | 1           | $\geq 0.838$ | PASS    |
| 3DH1      | Ant1    | Hop     | 1.003       | $\geq 0.840$ | PASS    |

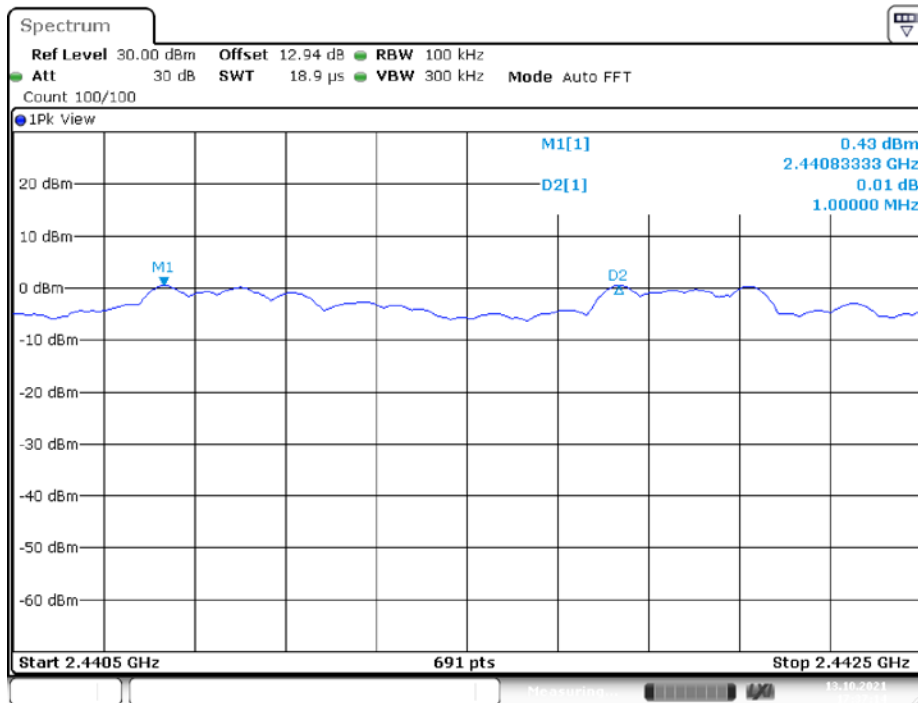
Please refer to the below plots:

## DH1\_Ant1\_Hop



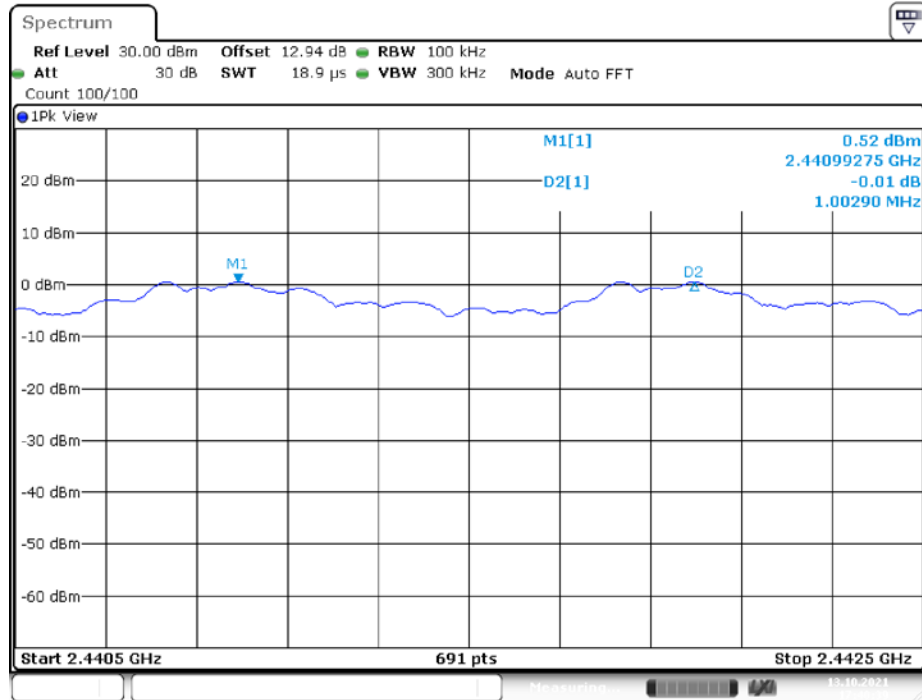
Date: 13.OCT.2021 17:34:16

## 2DH1\_Ant1\_Hop



Date: 13.OCT.2021 17:37:15

## 3DH1\_Ant1\_Hop



Date: 13.OCT.2021 17:40:40



## FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

### Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

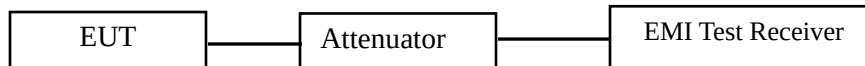
### Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).



**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 24 °C     |
| <b>Relative Humidity:</b> | 48 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

The testing was performed by Fan Yang on 2021-10-13.

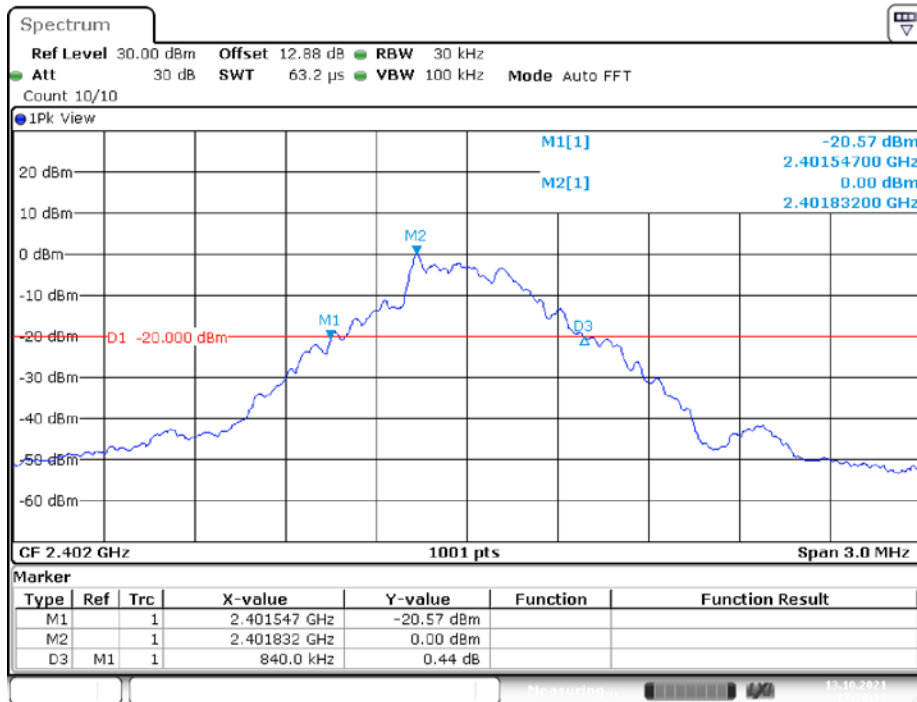
EUT operation mode: Transmitting

Test Result: Compliant.

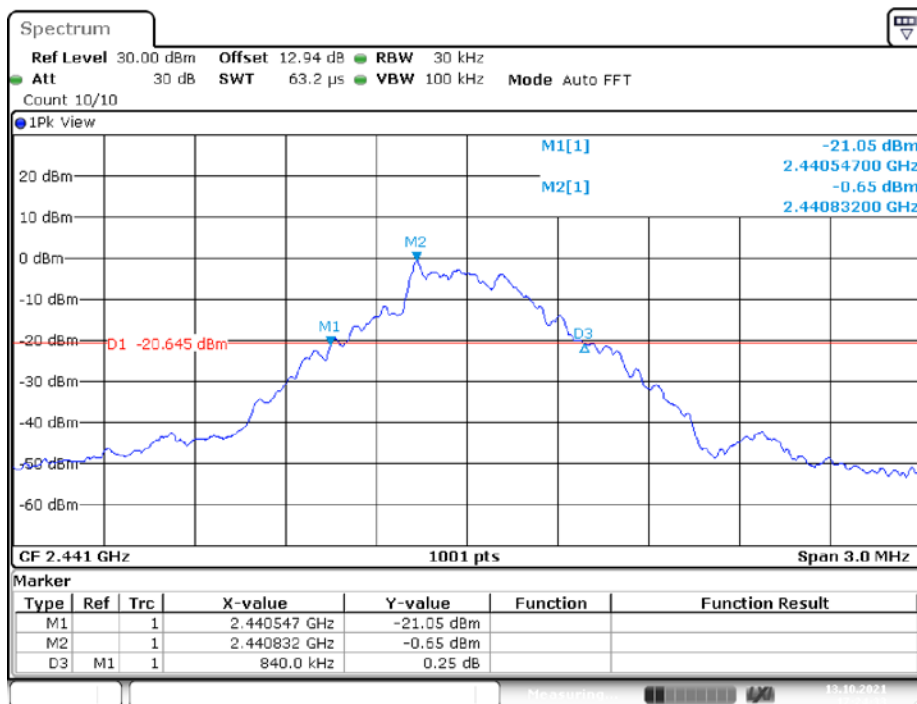
| Test Mode | Antenna | Channel | 20db EBW[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|---------------|------------|---------|
| DH1       | Ant1    | 2402    | 0.840         | ---        | PASS    |
|           |         | 2441    | 0.840         | ---        | PASS    |
|           |         | 2480    | 0.837         | ---        | PASS    |
| 2DH1      | Ant1    | 2402    | 1.257         | ---        | PASS    |
|           |         | 2441    | 1.257         | ---        | PASS    |
|           |         | 2480    | 1.254         | ---        | PASS    |
| 3DH1      | Ant1    | 2402    | 1.254         | ---        | PASS    |
|           |         | 2441    | 1.260         | ---        | PASS    |
|           |         | 2480    | 1.251         | ---        | PASS    |

| Test Mode | Antenna | Channel | 99% Occupied Bandwidth [MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|------------------------------|------------|---------|
| DH1       | Ant1    | 2402    | 0.839                        | ---        | PASS    |
|           |         | 2441    | 0.842                        | ---        | PASS    |
|           |         | 2480    | 0.839                        | ---        | PASS    |
| 2DH1      | Ant1    | 2402    | 1.157                        | ---        | PASS    |
|           |         | 2441    | 1.157                        | ---        | PASS    |
|           |         | 2480    | 1.16                         | ---        | PASS    |
| 3DH1      | Ant1    | 2402    | 1.157                        | ---        | PASS    |
|           |         | 2441    | 1.157                        | ---        | PASS    |
|           |         | 2480    | 1.154                        | ---        | PASS    |

Please refer to the below plots:

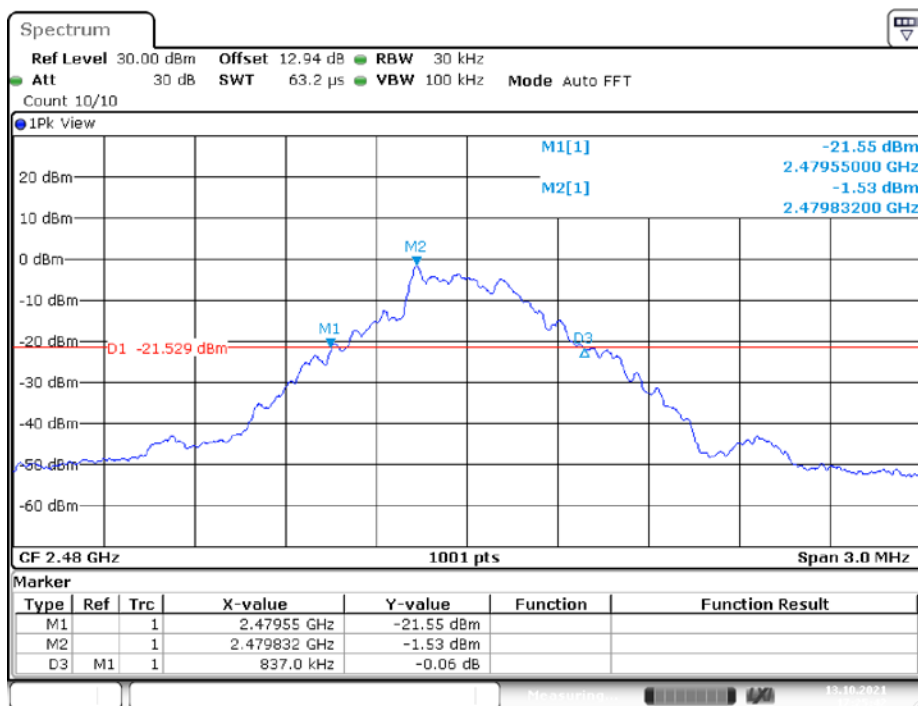
**20 dB EMISSION BANDWIDTH****DH1\_Ant1\_2402MHz**

Date: 13.OCT.2021 17:20:34

**DH1\_Ant1\_2441MHz**

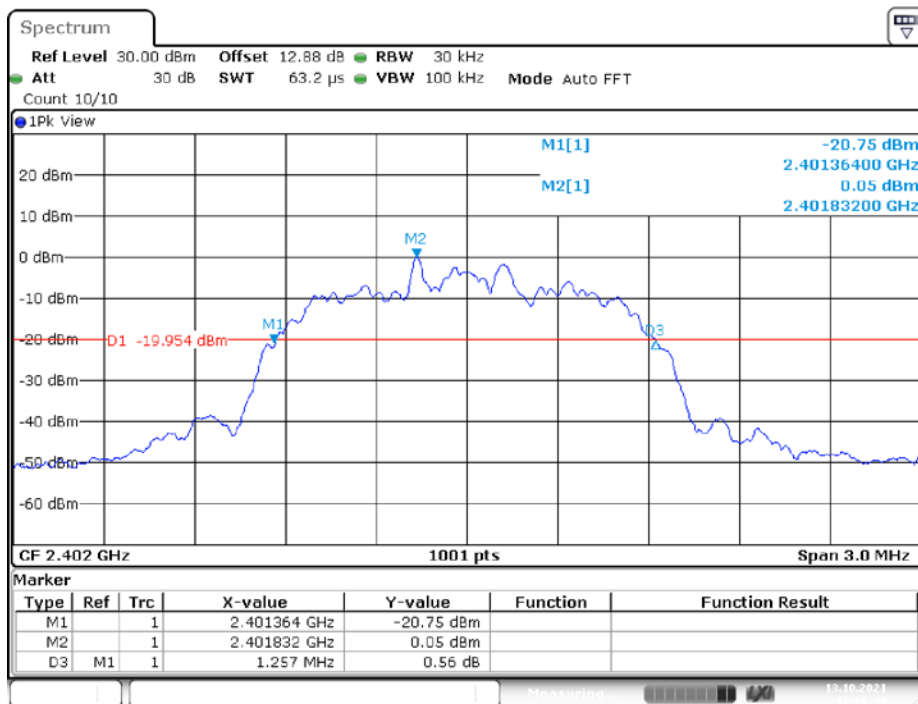
Date: 13.OCT.2021 17:24:34

## DH1\_Ant1\_2480MHz



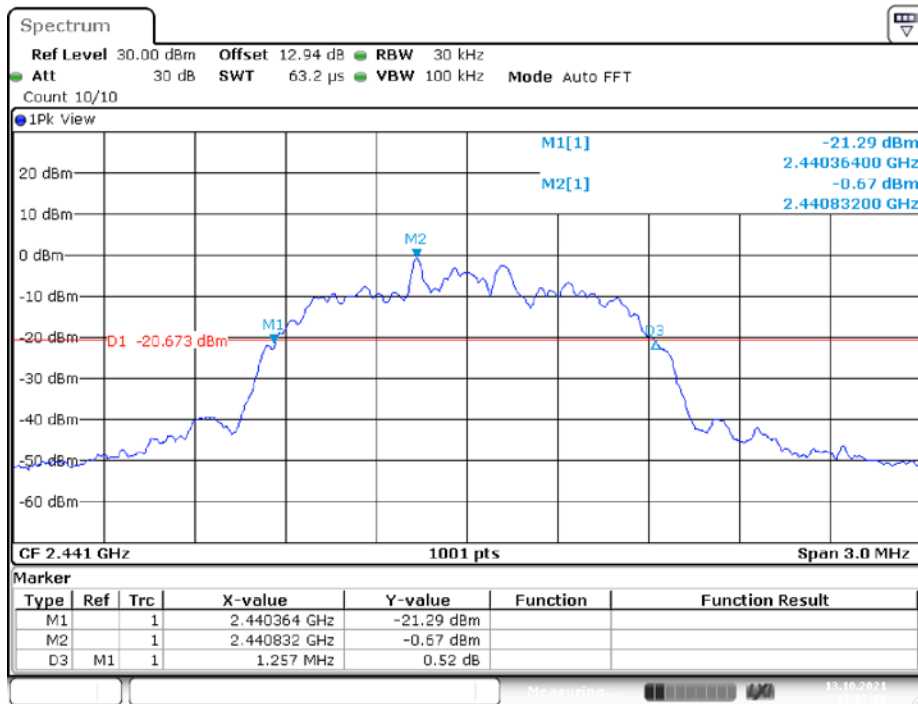
Date: 13.OCT.2021 17:25:43

## 2DH1\_Ant1\_2402MHz



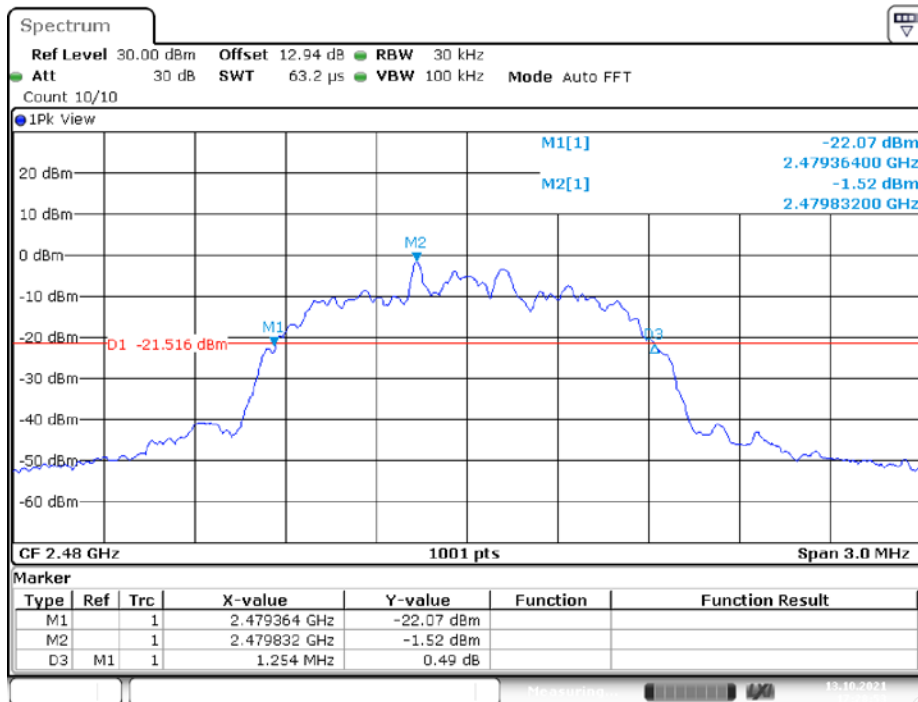
Date: 13.OCT.2021 17:26:50

## 2DH1\_Ant1\_2441MHz



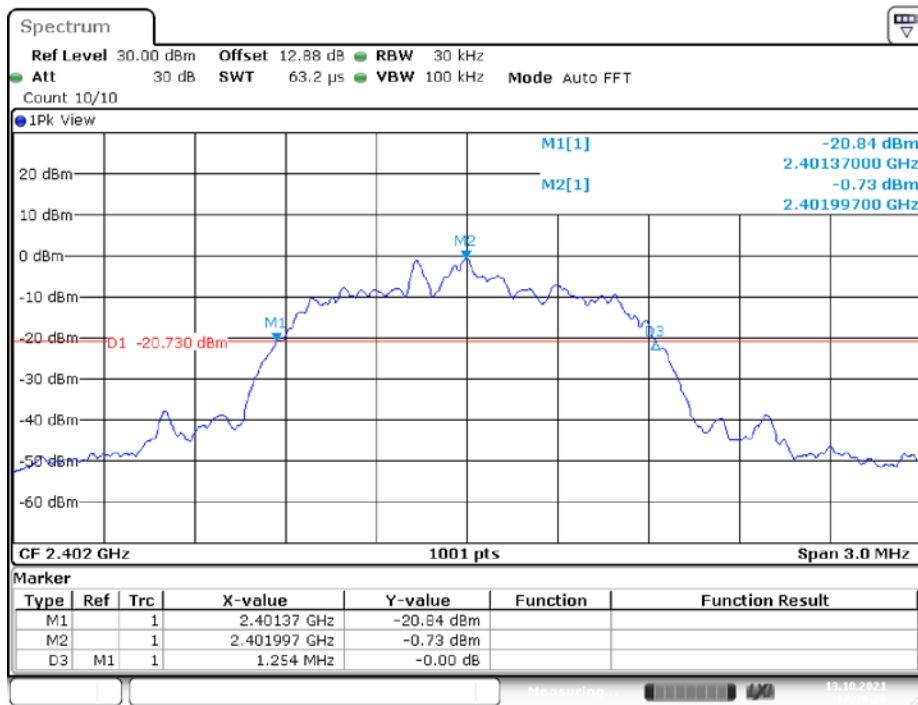
Date: 13.OCT.2021 17:27:57

## 2DH1\_Ant1\_2480MHz



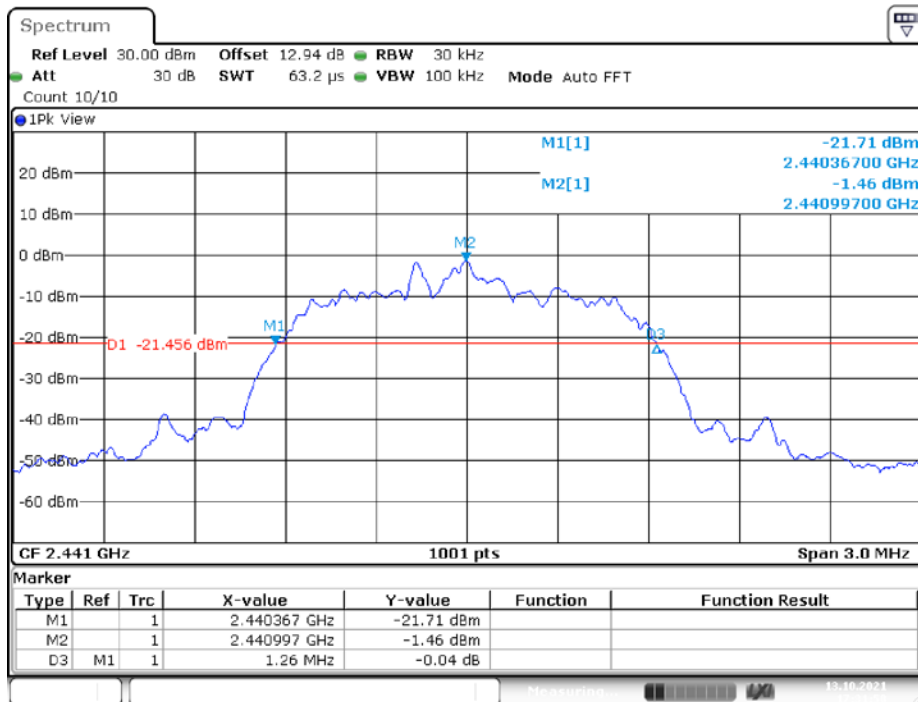
Date: 13.OCT.2021 17:28:54

## 3DH1\_Ant1\_2402MHz



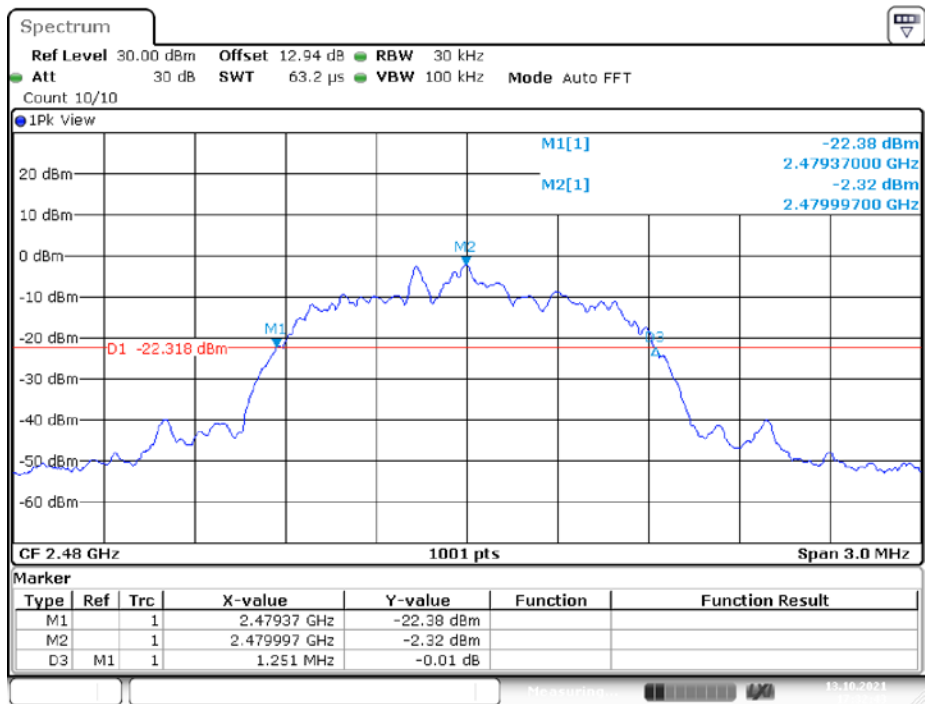
Date: 13.OCT.2021 17:30:21

## 3DH1\_Ant1\_2441MHz

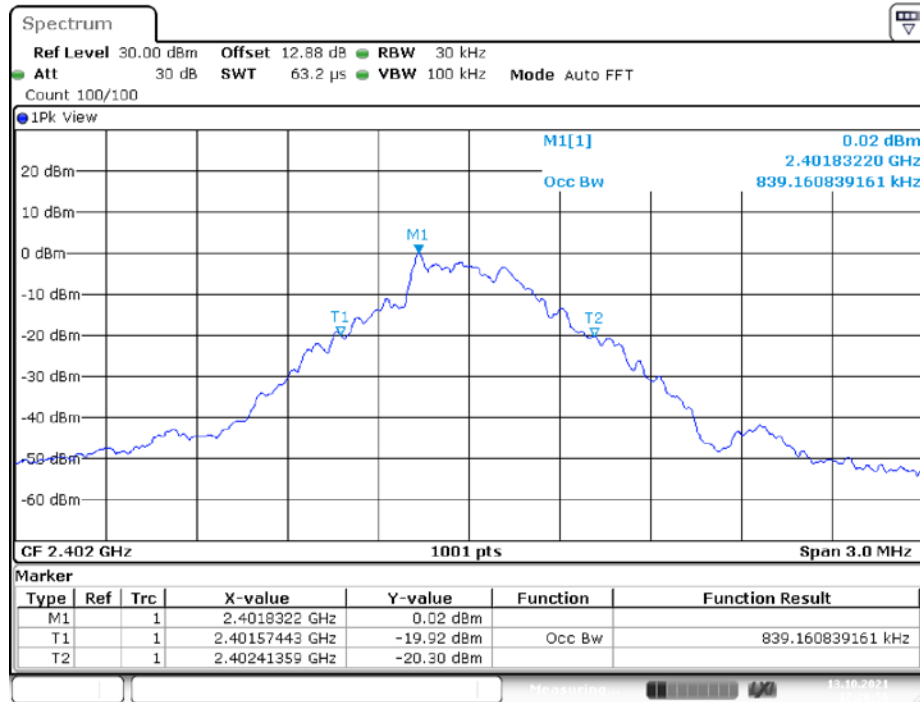


Date: 13.OCT.2021 17:31:59

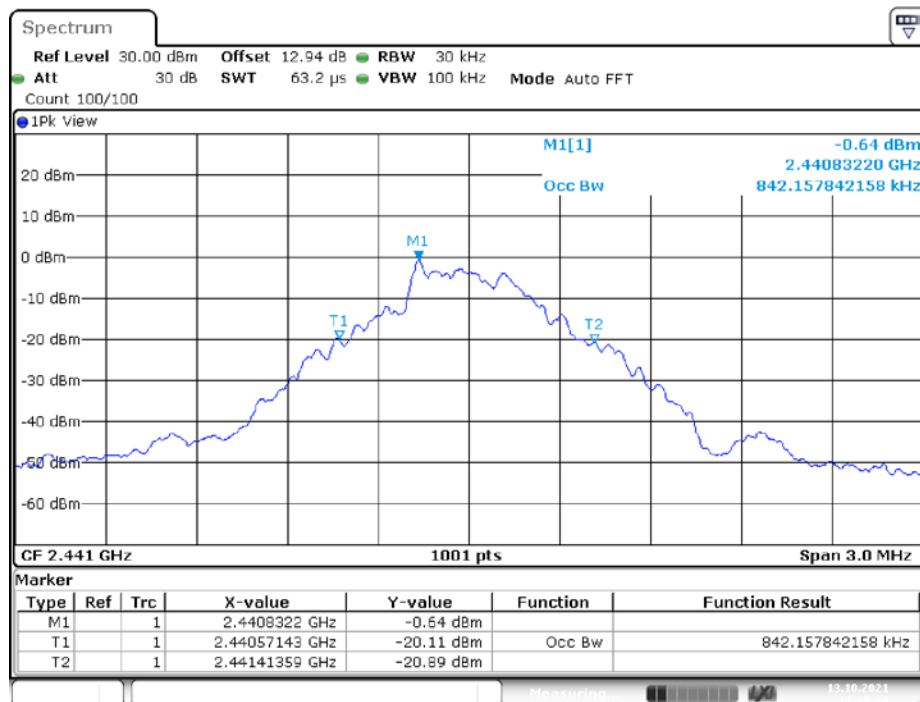
3DH1\_Ant1\_2480MHz



Date: 13.OCT.2021 17:32:44

**99% OCCUPIED BANDWIDTH****DH1\_Ant1\_2402MHz**

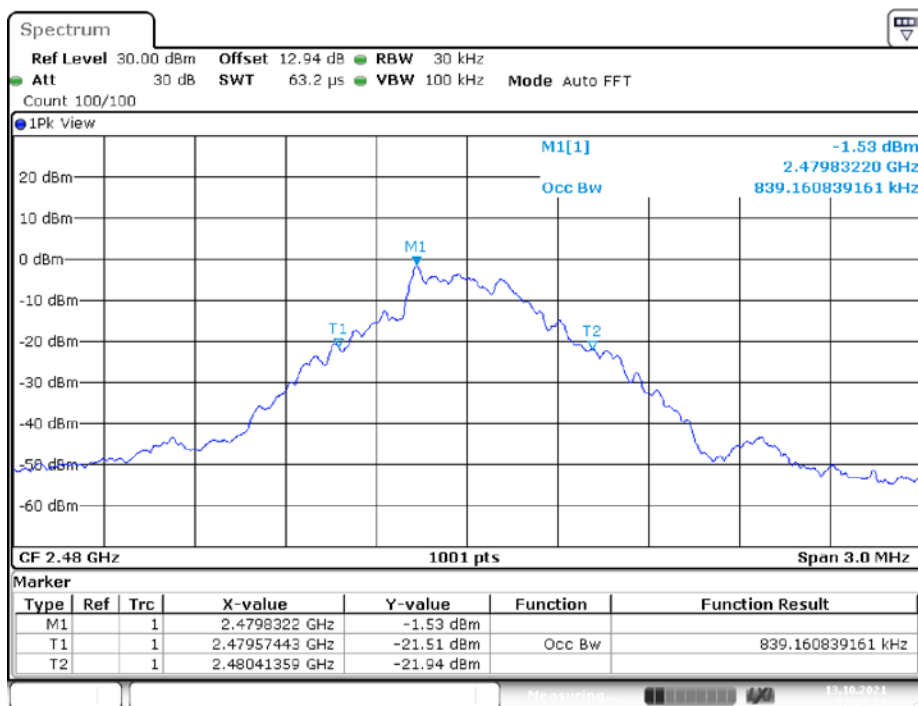
Date: 13.OCT.2021 17:20:56

**DH1\_Ant1\_2441MHz**

Date: 13.OCT.2021 17:25:01

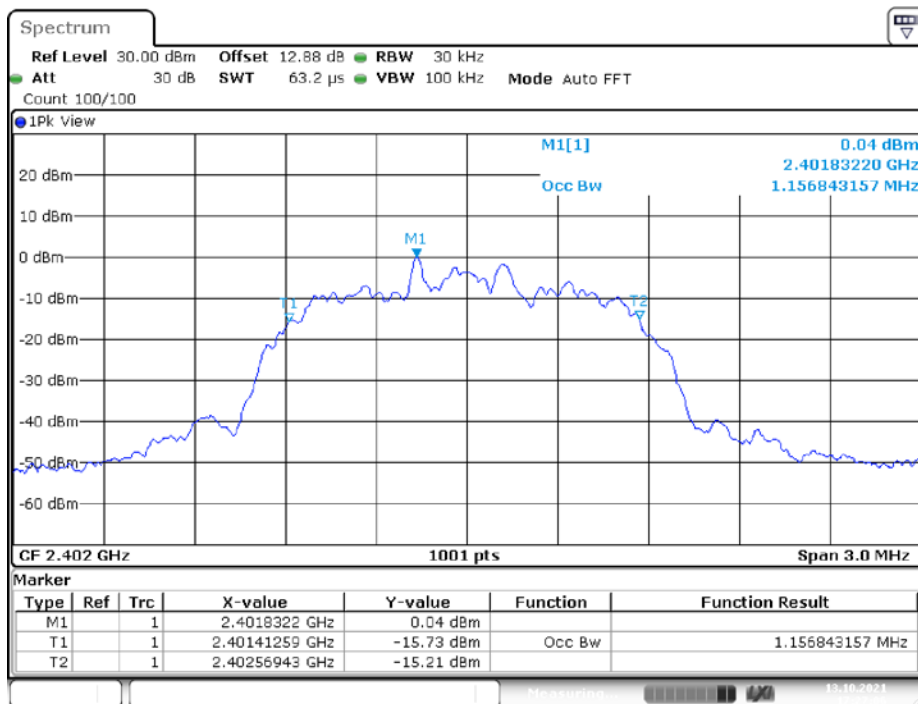


## DH1\_Ant1\_2480MHz



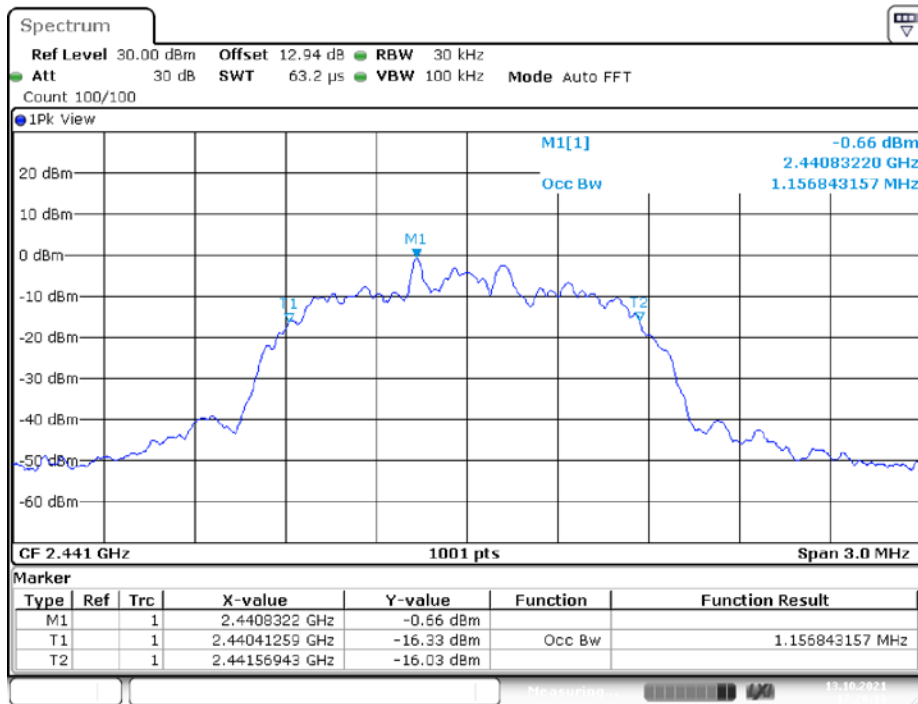
Date: 13.OCT.2021 17:26:00

## 2DH1\_Ant1\_2402MHz



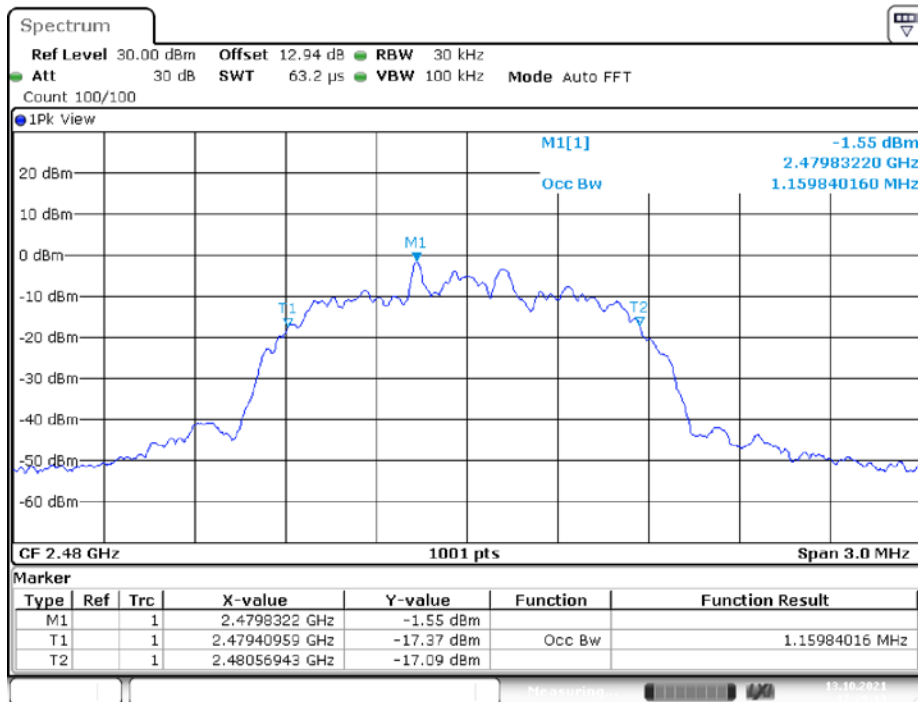
Date: 13.OCT.2021 17:27:07

## 2DH1\_Ant1\_2441MHz



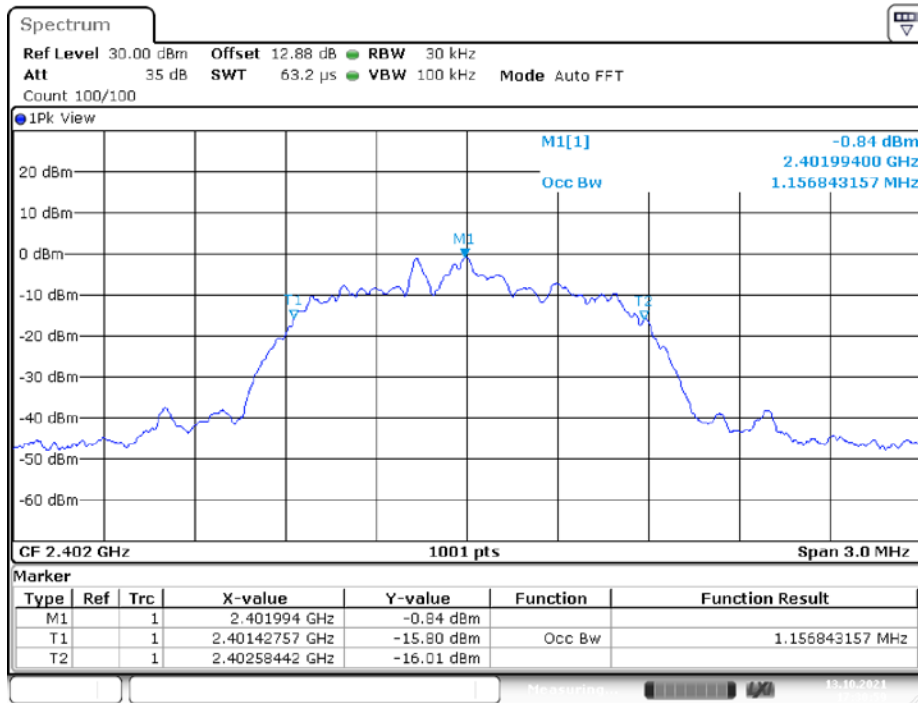
Date: 13.OCT.2021 17:26:19

## 2DH1\_Ant1\_2480MHz



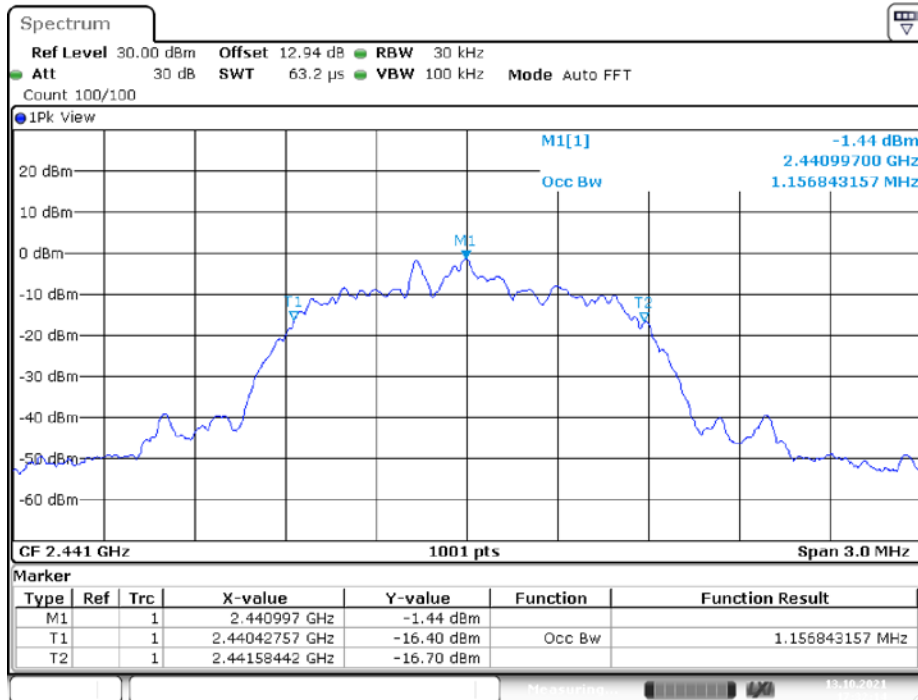
Date: 13.OCT.2021 17:29:14

## 3DH1\_Ant1\_2402MHz



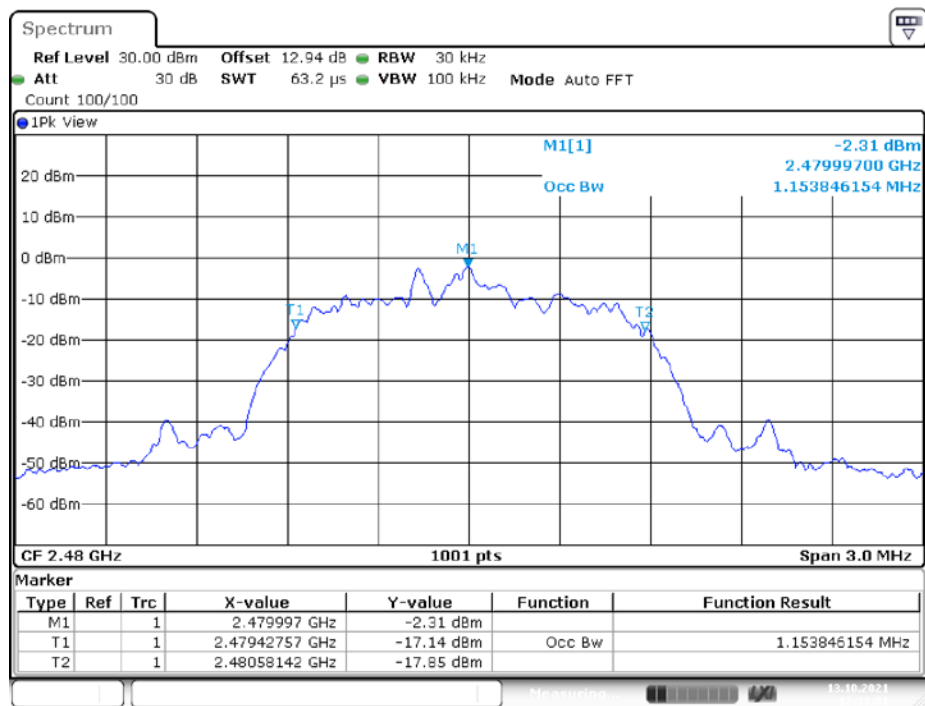
Date: 13.OCT.2021 17:30:59

## 3DH1\_Ant1\_2441MHz



Date: 13.OCT.2021 17:32:15

3DH1\_Ant1\_2480MHz



Date: 13.OCT.2021 17:33:02

**FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST****Applicable Standard**

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

**Test Procedure**

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the max-hold function record the quantity of the channel.

**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 24 °C     |
| <b>Relative Humidity:</b> | 48 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

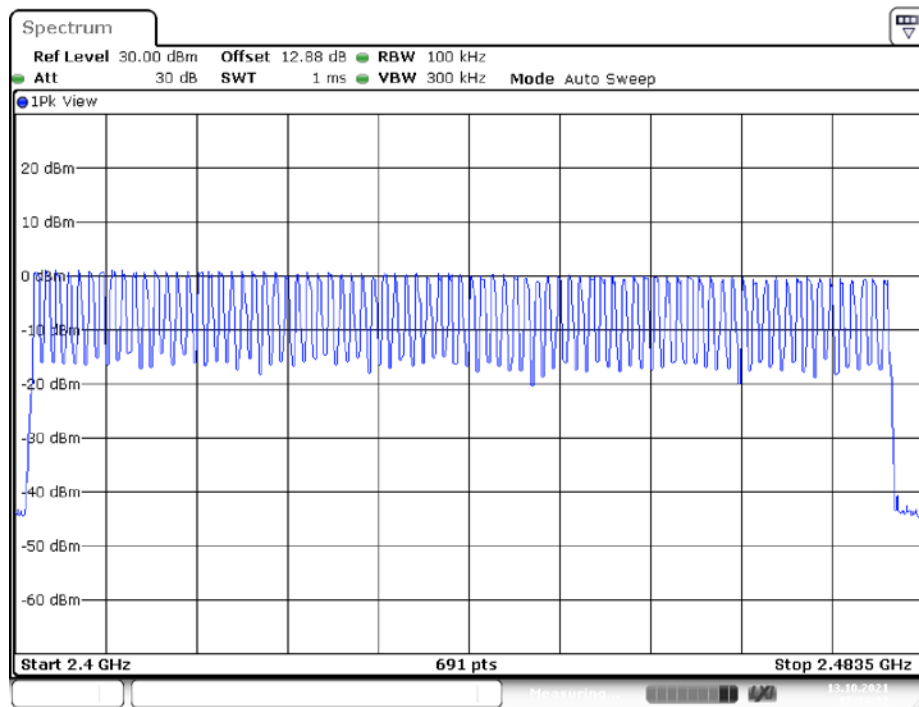
*The testing was performed by Fan Yang on 2021-10-13.*

*EUT operation mode: Transmitting*

Test Result: Compliant.

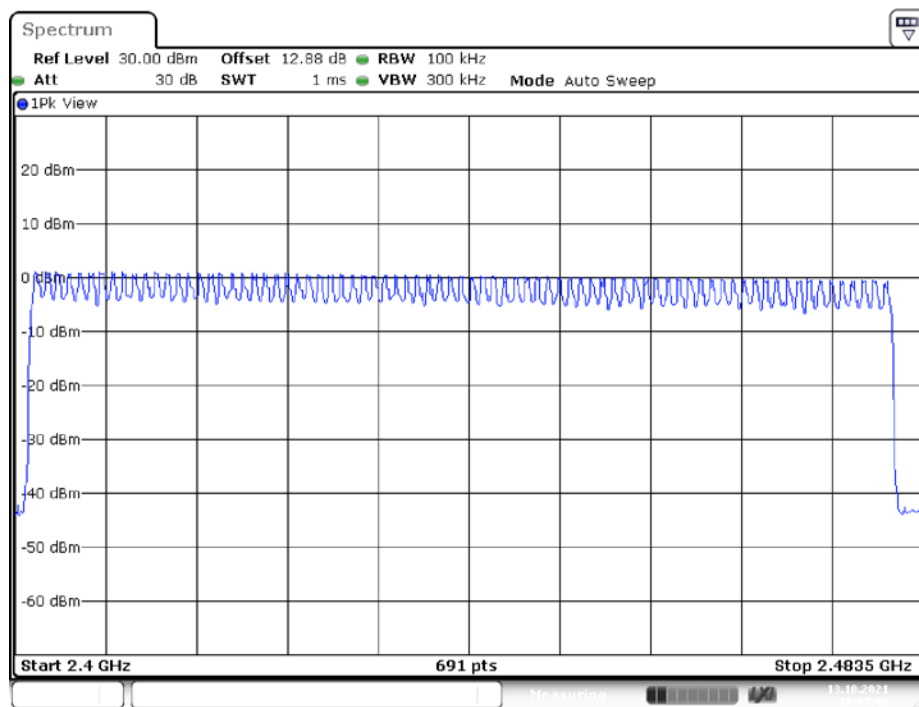
| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH1      | Ant1    | Hop     | 79          | >=15       | PASS    |
| 2DH1     | Ant1    | Hop     | 79          | >=15       | PASS    |
| 3DH1     | Ant1    | Hop     | 79          | >=15       | PASS    |

## DH1\_Ant1\_Hop



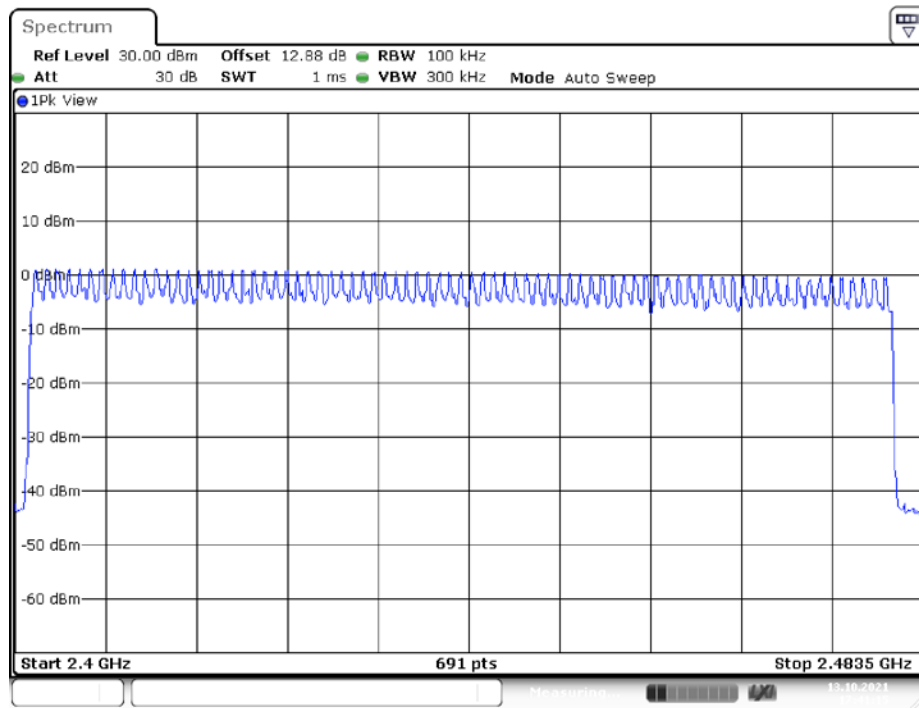
Date: 13.OCT.2021 17:34:32

## 2DH1\_Ant1\_Hop



Date: 13.OCT.2021 17:37:49

## 3DH1\_Ant1\_Hop



Date: 13.OCT.2021 17:41:16

## FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

### Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### Test Procedure

1. The EUT was worked in channel hopping.
2. Set the RBW to: 1MHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Set the span to 0Hz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Recorded the time of single pulses

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Fan Yang on 2021-10-13.

EUT operation mode: Transmitting

Test Result: Compliant.

| Test Mode | Antenna | Channel | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s]   | Verdict |
|-----------|---------|---------|-----------------|-----------------|-----------|------------|---------|
| DH1       | Ant1    | Hop     | 0.39            | 330             | 0.129     | $\leq 0.4$ | PASS    |
| DH3       | Ant1    | Hop     | 1.64            | 180             | 0.295     | $\leq 0.4$ | PASS    |
| DH5       | Ant1    | Hop     | 2.88            | 120             | 0.346     | $\leq 0.4$ | PASS    |
| 2DH1      | Ant1    | Hop     | 0.40            | 330             | 0.132     | $\leq 0.4$ | PASS    |
| 2DH3      | Ant1    | Hop     | 1.65            | 200             | 0.329     | $\leq 0.4$ | PASS    |
| 2DH5      | Ant1    | Hop     | 2.89            | 130             | 0.375     | $\leq 0.4$ | PASS    |
| 3DH1      | Ant1    | Hop     | 0.40            | 320             | 0.129     | $\leq 0.4$ | PASS    |
| 3DH3      | Ant1    | Hop     | 1.65            | 180             | 0.296     | $\leq 0.4$ | PASS    |
| 3DH5      | Ant1    | Hop     | 2.89            | 100             | 0.289     | $\leq 0.4$ | PASS    |

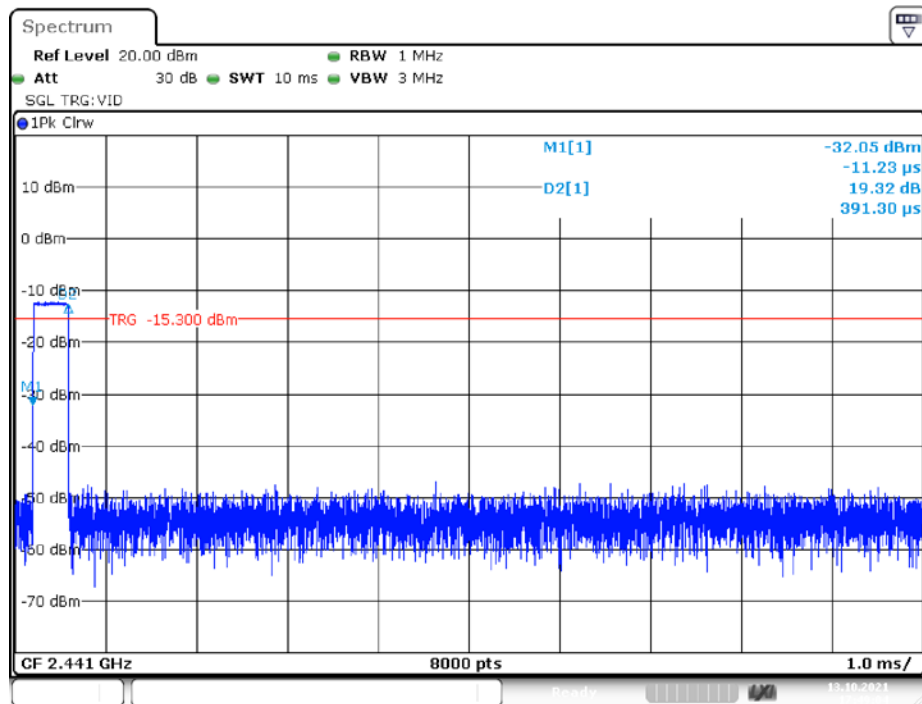
Note 1: A period time= $0.4 \times 79 = 31.6(S)$ , Result=Burst Width\*Total Hops

Note 2: Total Hops =Hopping Number in  $3.16s \times 10$

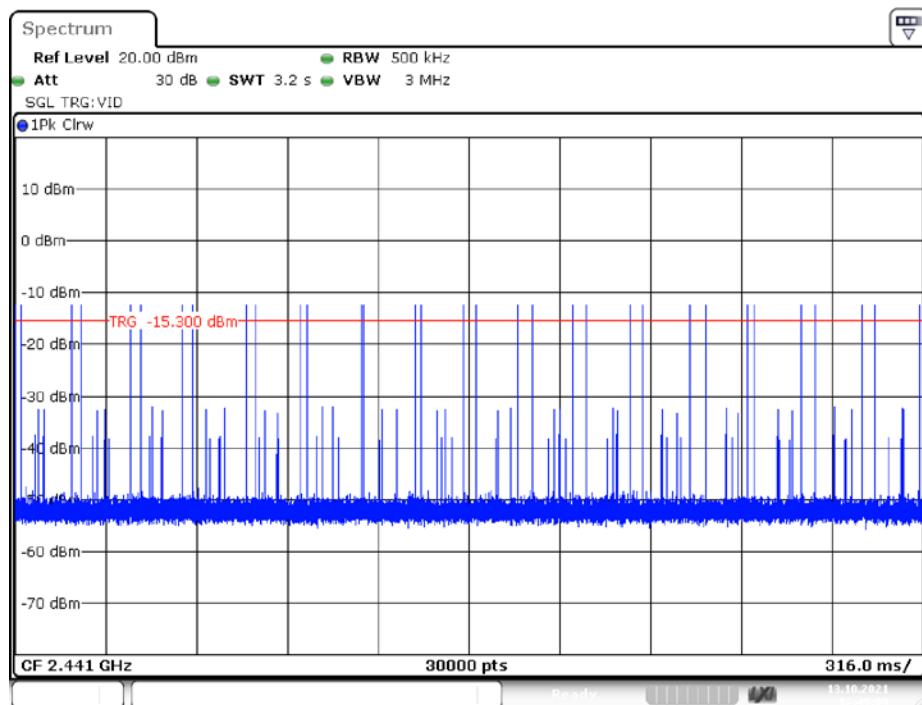
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s (Second high signals were other channel)



## DH1\_Ant1\_Hop

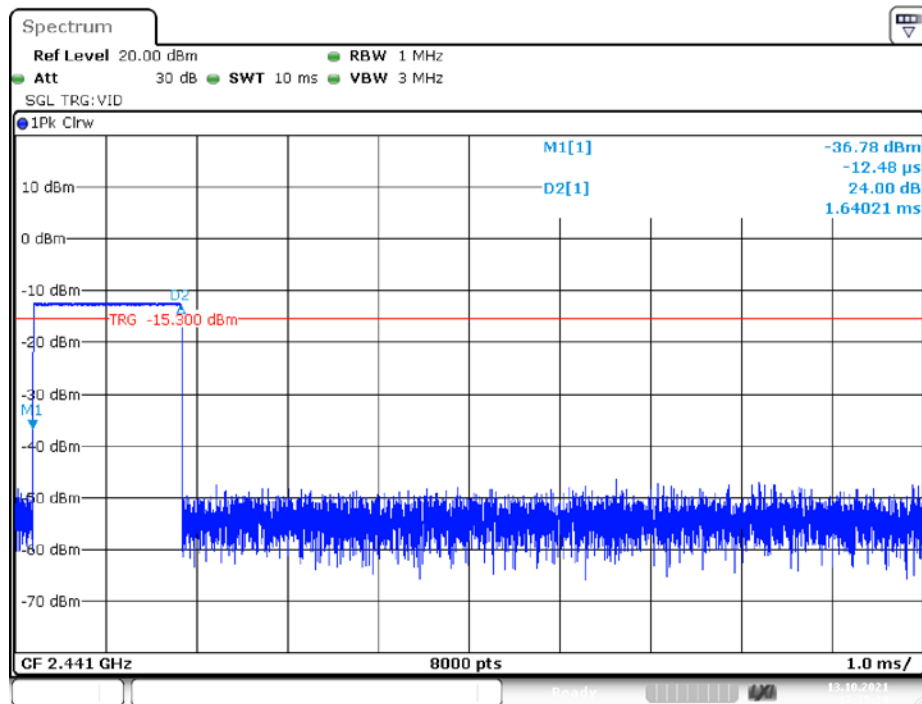


Date: 13.OCT.2021 17:49:04

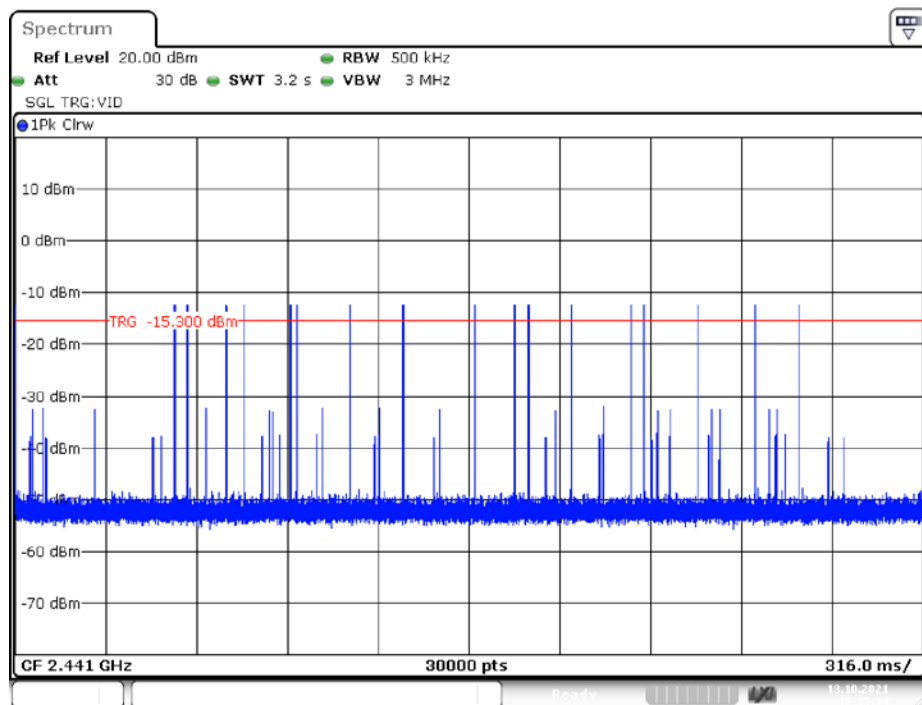


Date: 13.OCT.2021 17:49:09

## DH3\_Ant1\_Hop

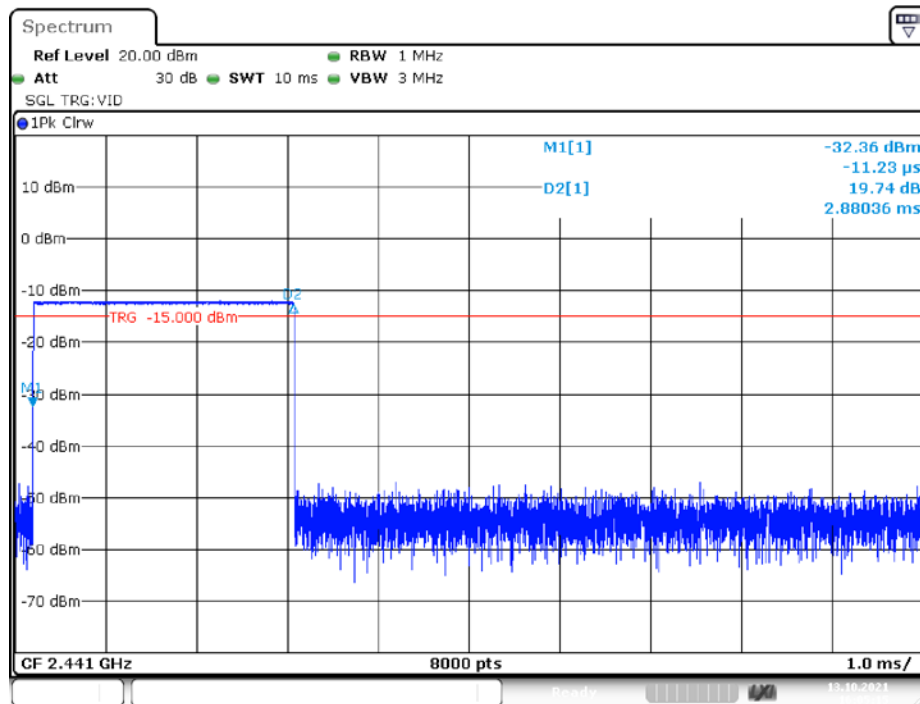


Date: 13.OCT.2021 17:35:30

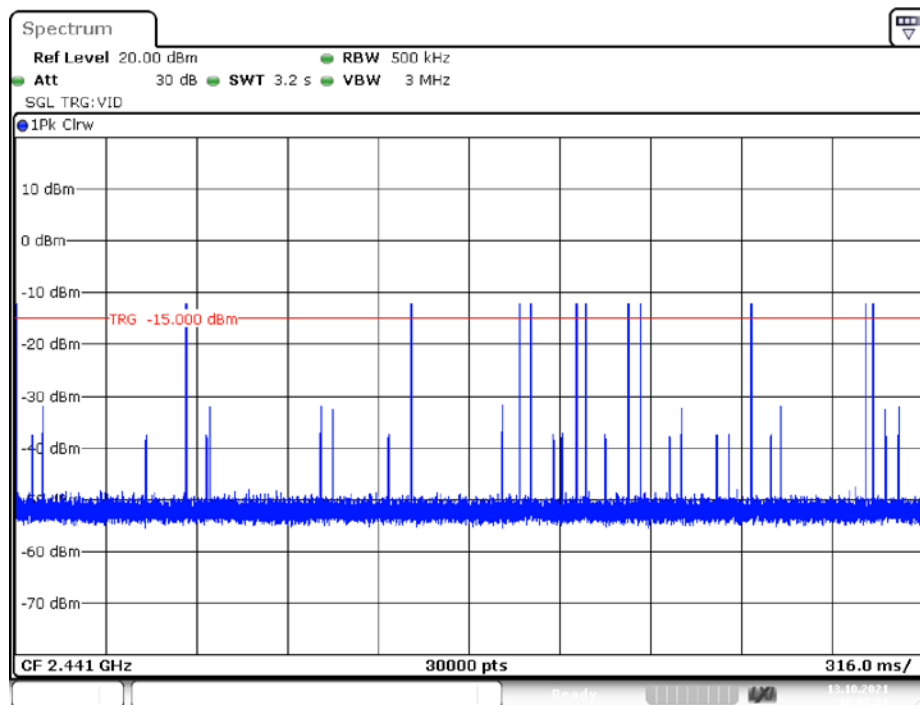


Date: 13.OCT.2021 17:35:35

## DH5\_Ant1\_Hop

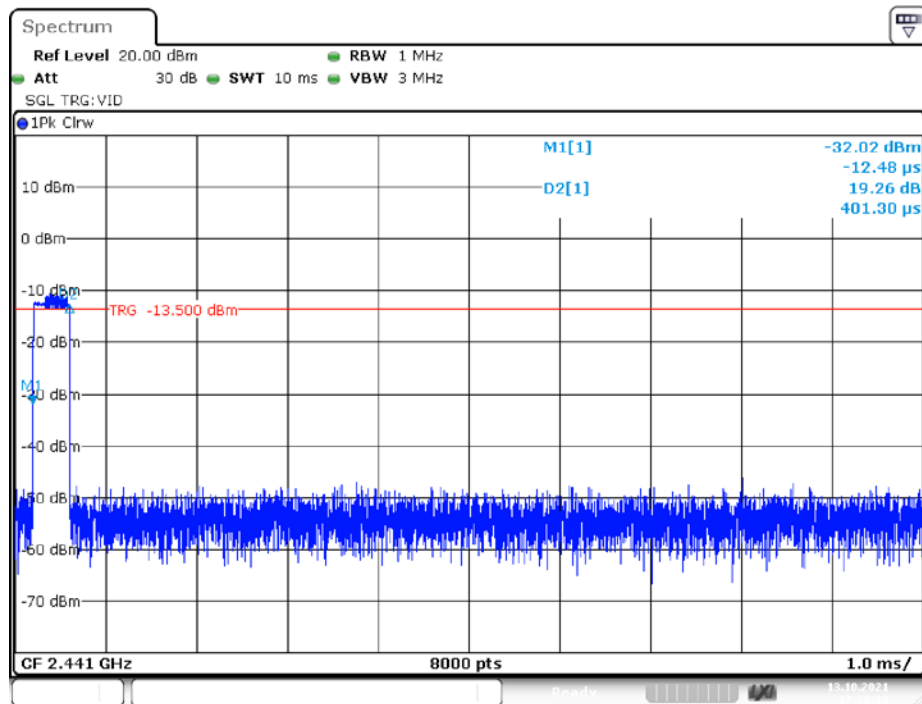


Date: 13.OCT.2021 16:05:15

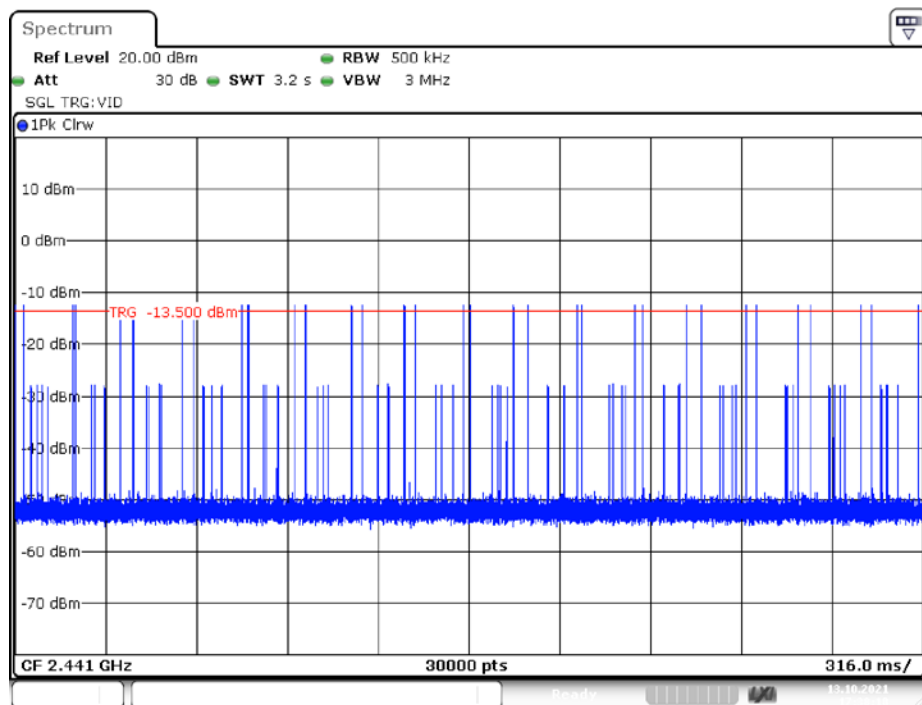


Date: 13.OCT.2021 16:05:21

## 2DH1\_Ant1\_Hop

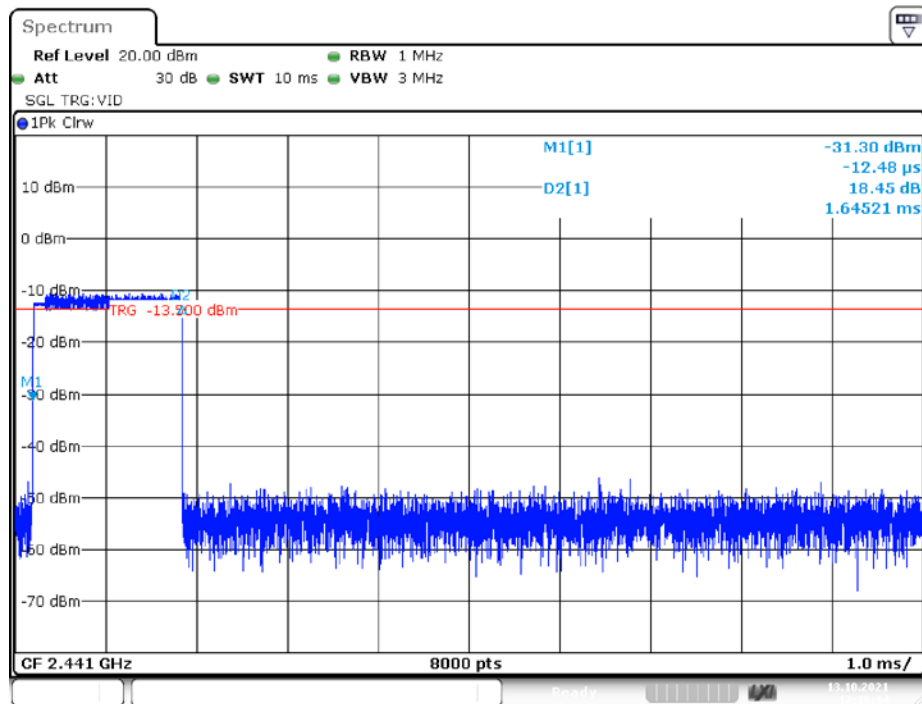


Date: 13.OCT.2021 17:38:14

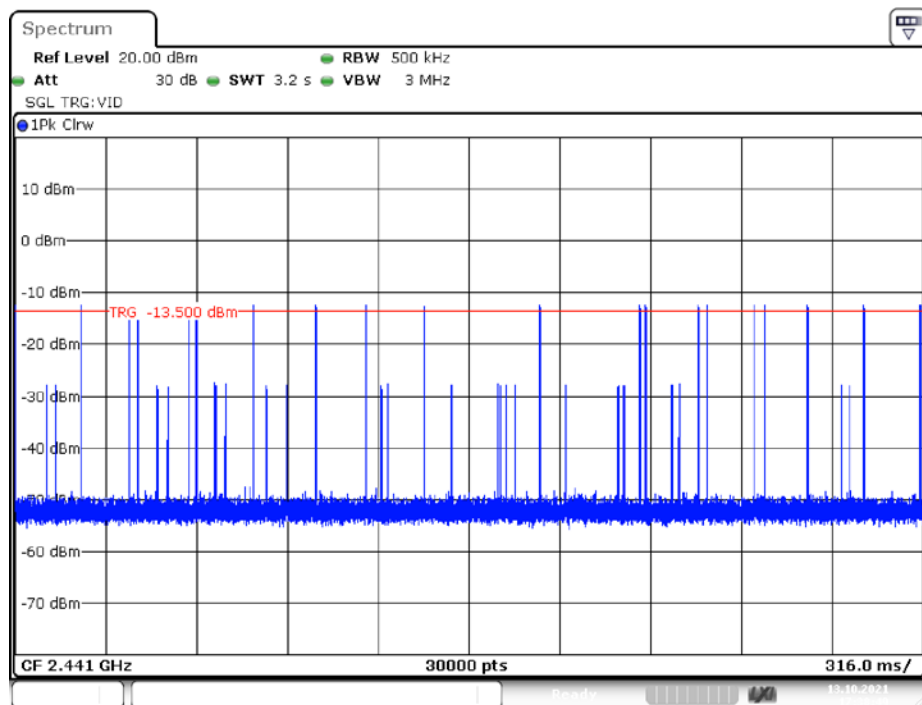


Date: 13.OCT.2021 17:38:19

## 2DH3\_Ant1\_Hop

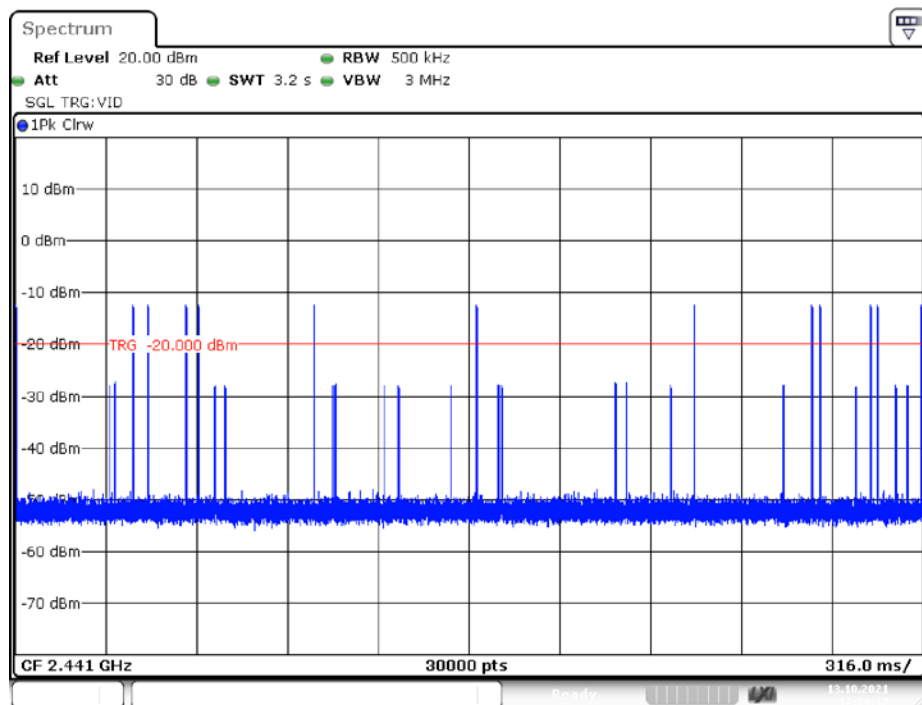
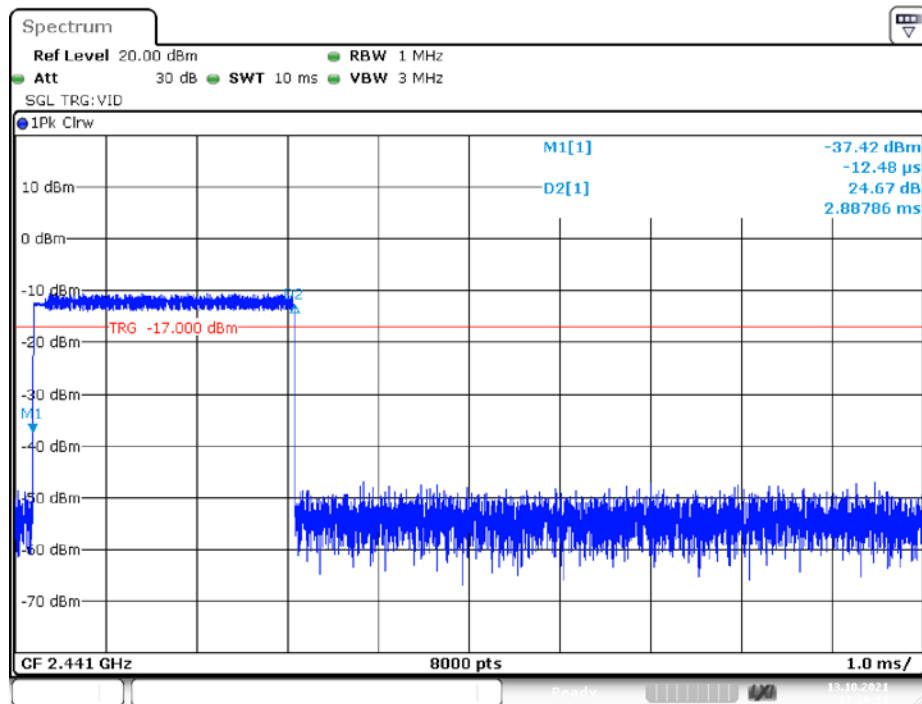


Date: 13.OCT.2021 17:38:44

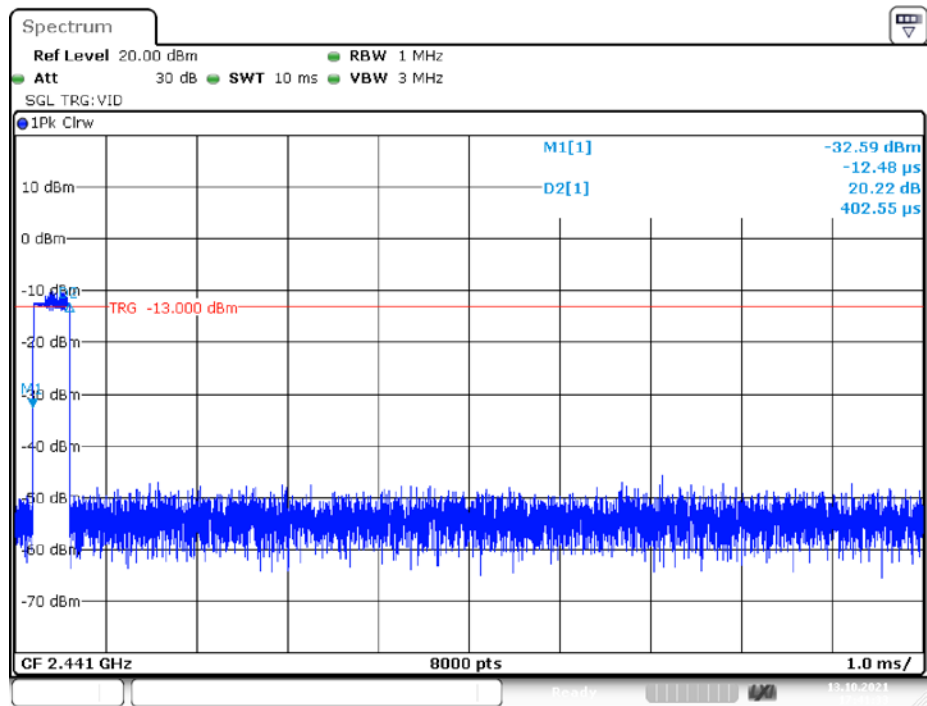


Date: 13.OCT.2021 17:38:50

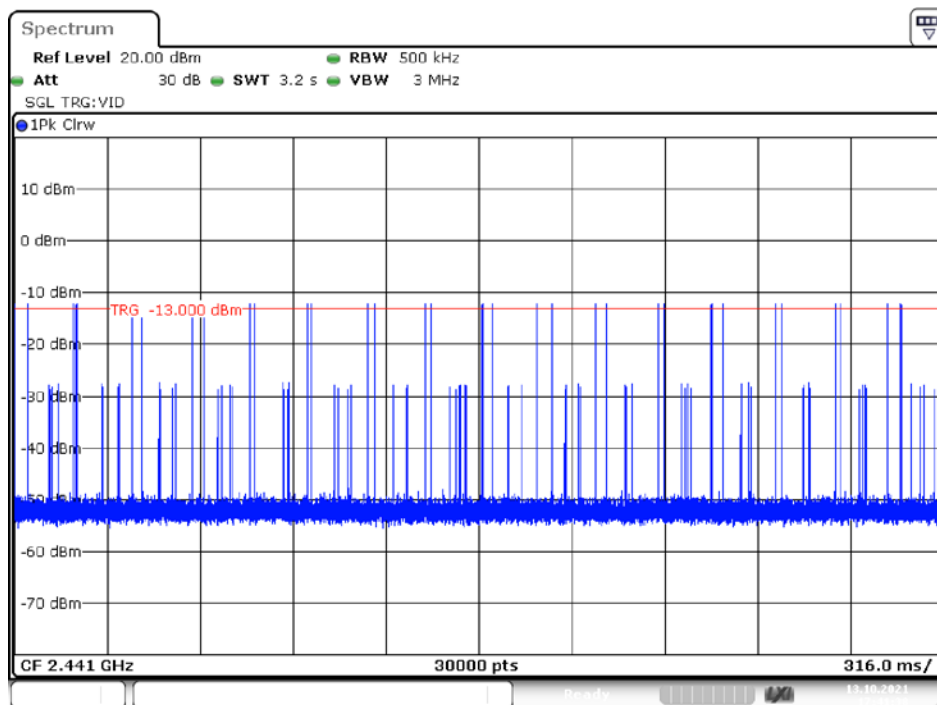
## 2DH5\_Ant1\_Hop



## 3DH1\_Ant1\_Hop

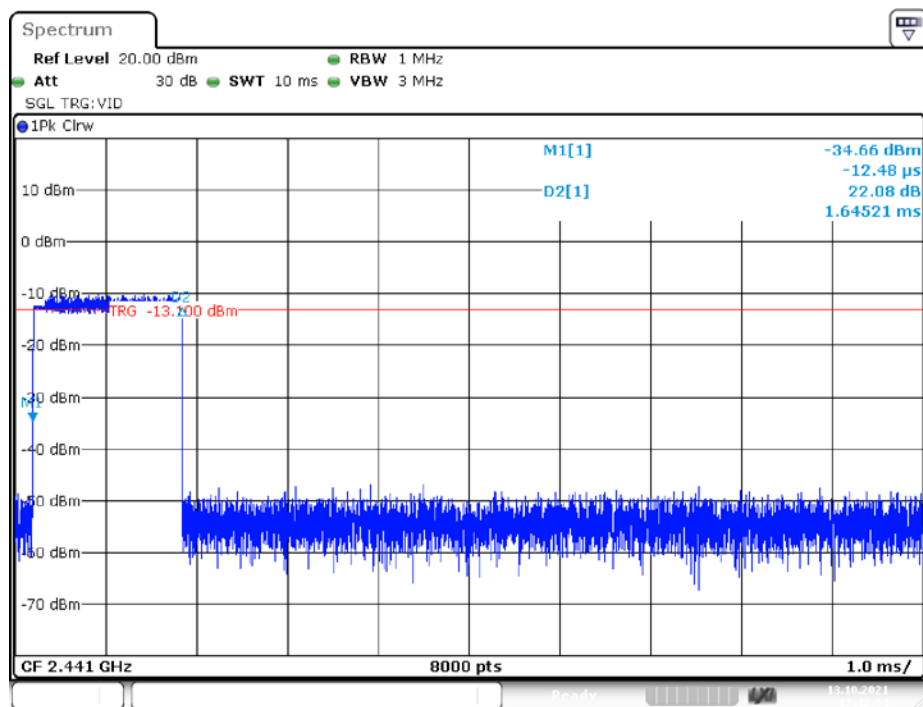


Date: 13.OCT.2021 17:41:34

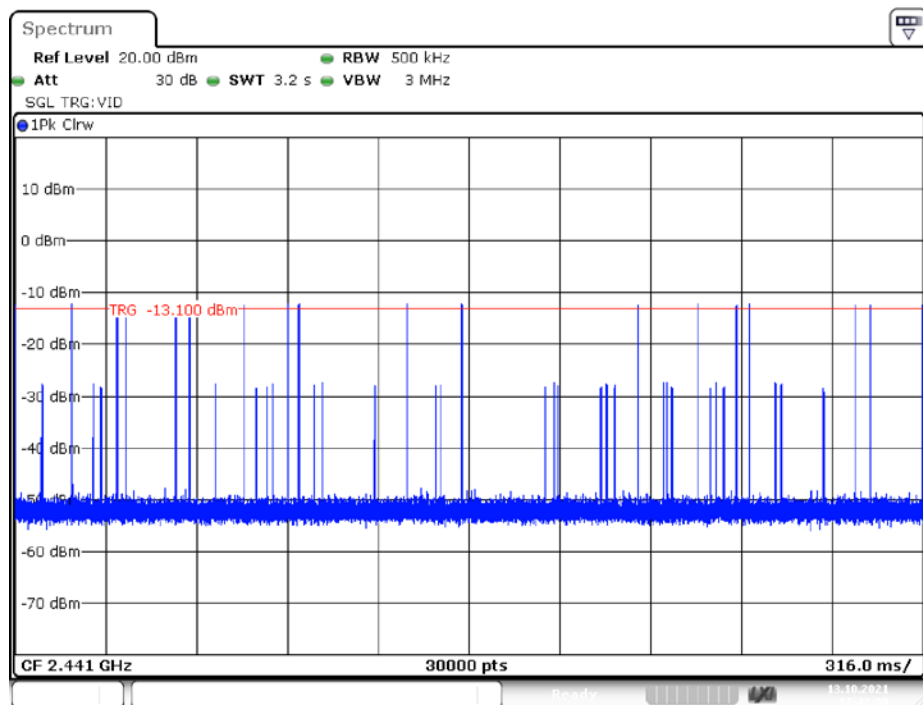


Date: 13.OCT.2021 17:41:39

## 3DH3\_Ant1\_Hop



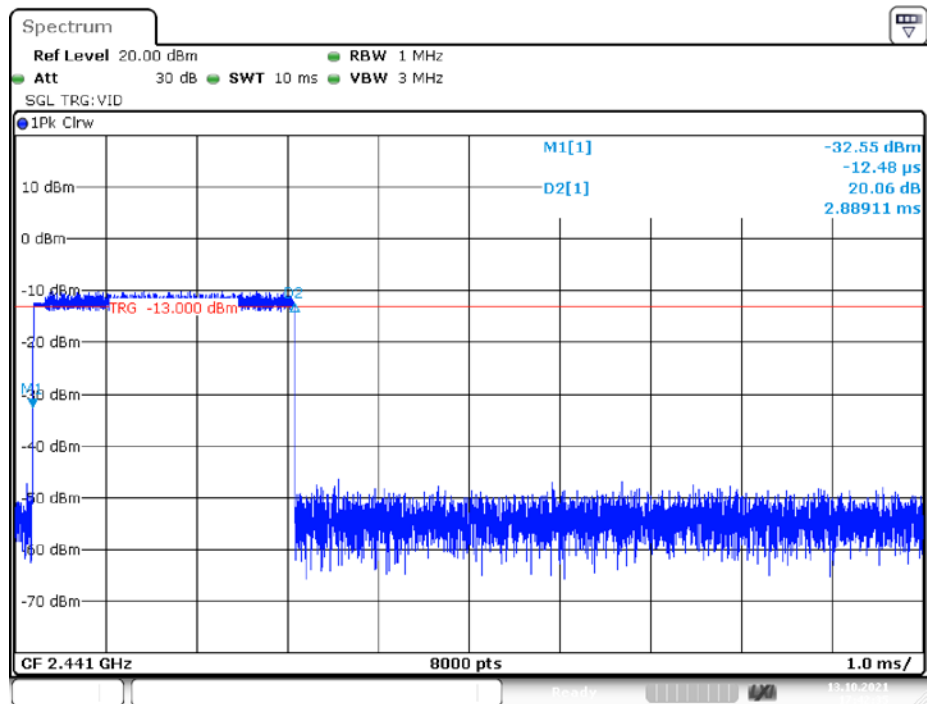
Date: 13.OCT.2021 17:42:04



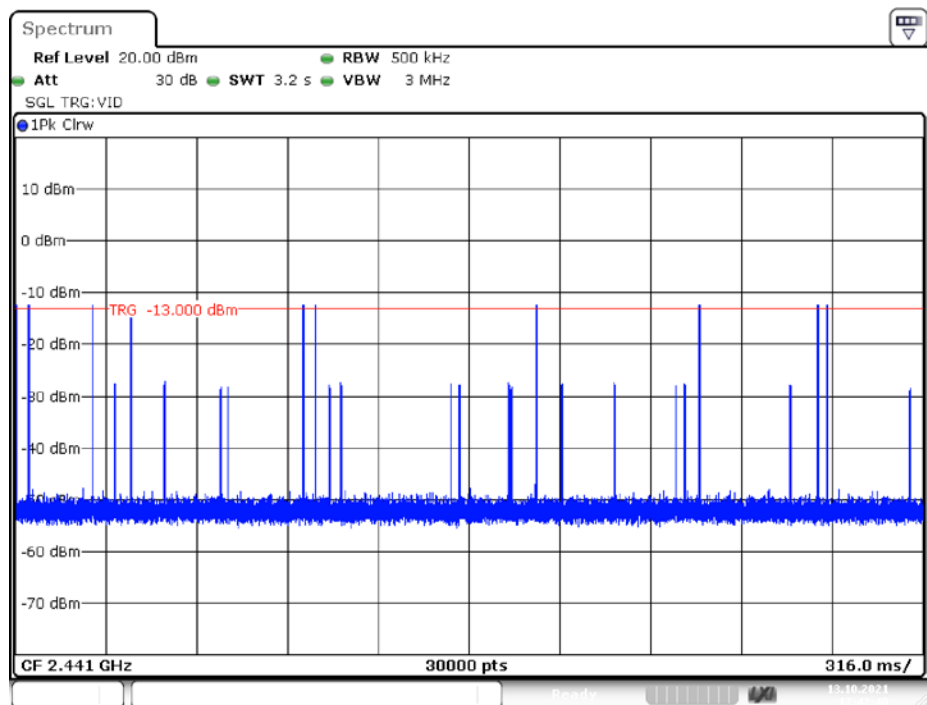
Date: 13.OCT.2021 17:42:10



## 3DH5\_Ant1\_Hop



Date: 13.OCT.2021 17:42:36



Date: 13.OCT.2021 17:42:41

## FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

### Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

### Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24°C      |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

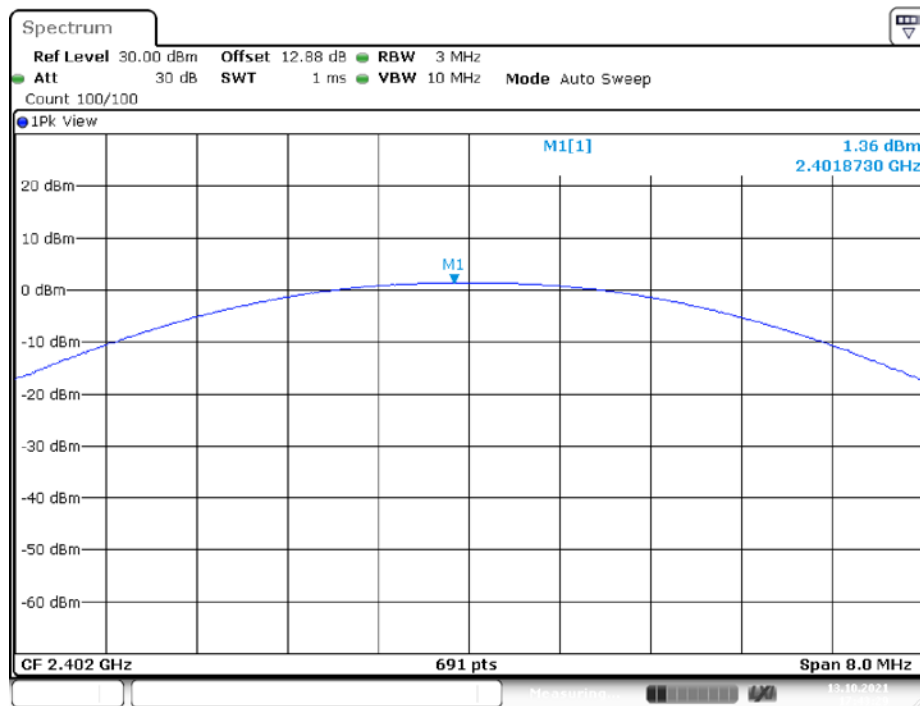
The testing was performed by Fan Yang on 2021-10-13.

EUT operation mode: Transmitting

Test Result: Compliant.

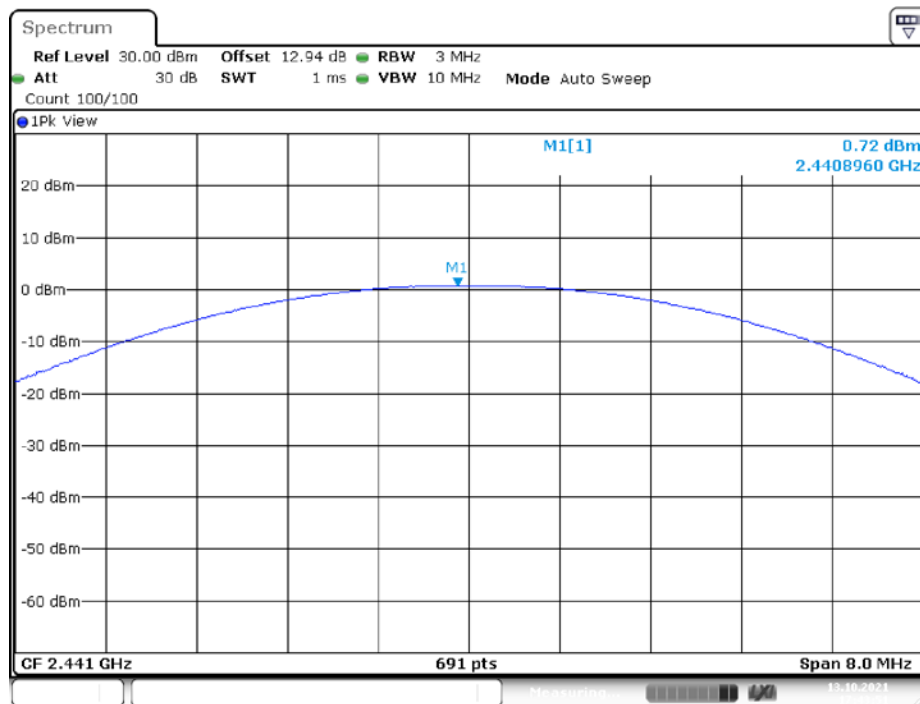
| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| DH1       | Ant1    | 2402    | 1.36        | <=20.97    | PASS    |
|           |         | 2441    | 0.72        | <=20.97    | PASS    |
|           |         | 2480    | -0.08       | <=20.97    | PASS    |
| 2DH1      | Ant1    | 2402    | 3.67        | <=20.97    | PASS    |
|           |         | 2441    | 2.99        | <=20.97    | PASS    |
|           |         | 2480    | 2.14        | <=20.97    | PASS    |
| 3DH1      | Ant1    | 2402    | 4.24        | <=20.97    | PASS    |
|           |         | 2441    | 3.54        | <=20.97    | PASS    |
|           |         | 2480    | 2.68        | <=20.97    | PASS    |

## DH1\_Ant1\_2402MHz



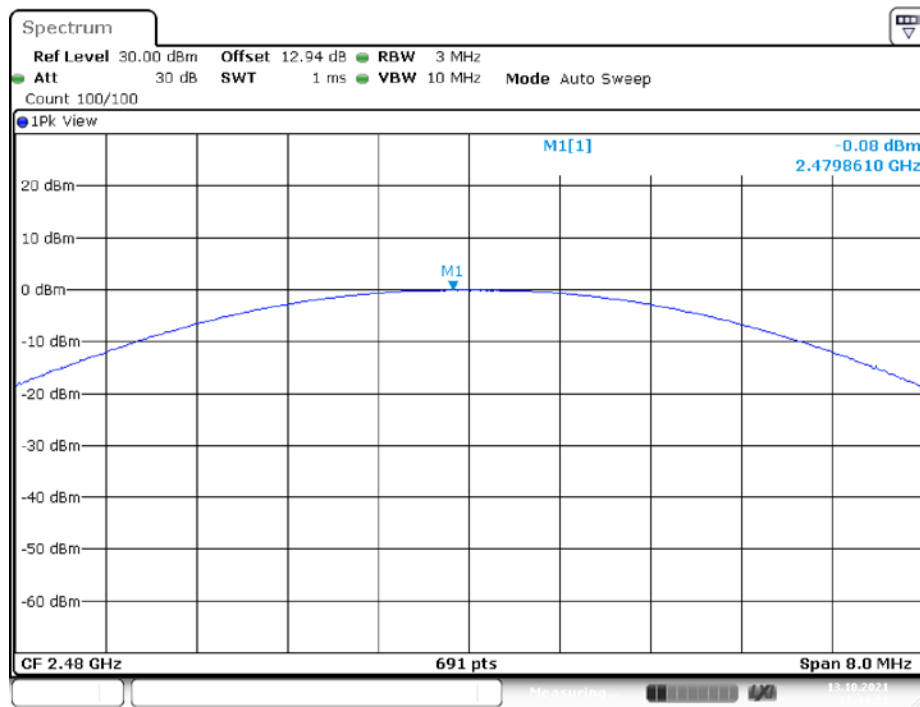
Date: 13.OCT.2021 17:43:30

## DH1\_Ant1\_2441MHz



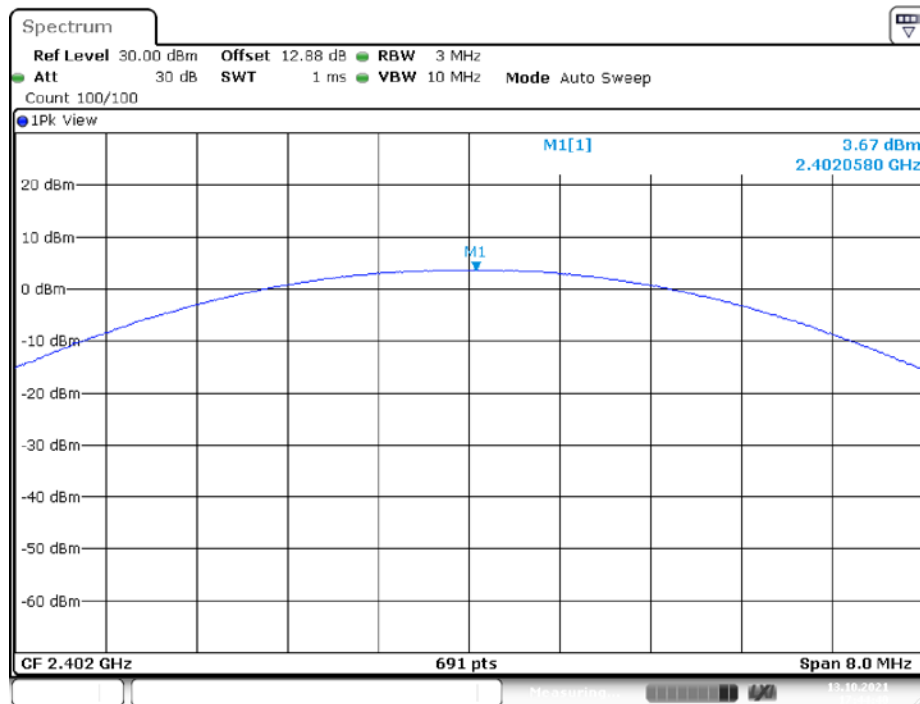
Date: 13.OCT.2021 17:43:52

## DH1\_Ant1\_2480MHz



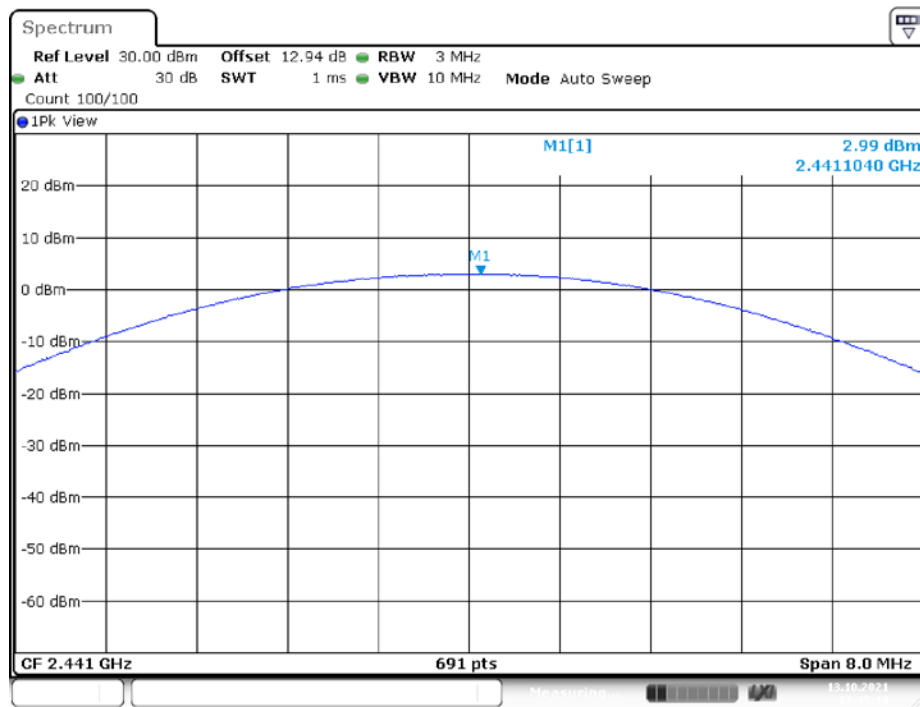
Date: 13.OCT.2021 17:44:22

## 2DH1\_Ant1\_2402MHz



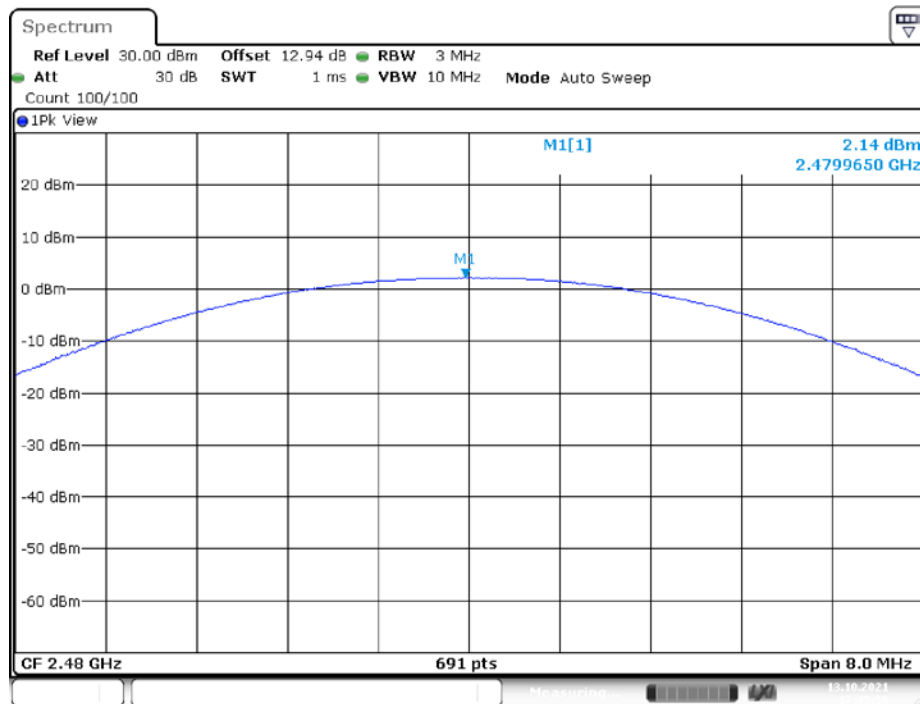
Date: 13.OCT.2021 17:44:41

## 2DH1\_Ant1\_2441MHz



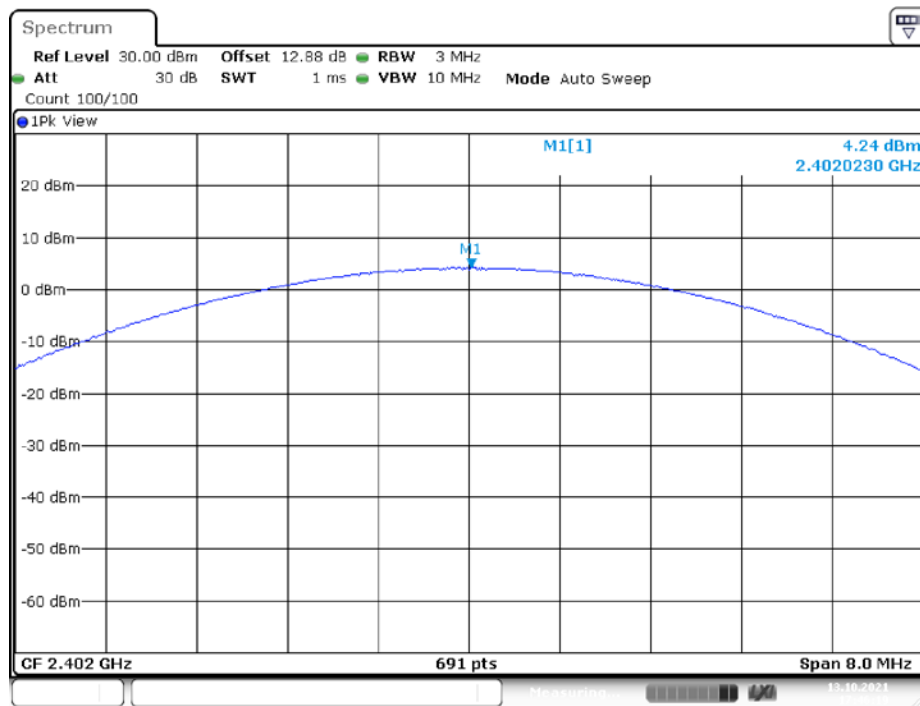
Date: 13.OCT.2021 17:45:20

## 2DH1\_Ant1\_2480MHz



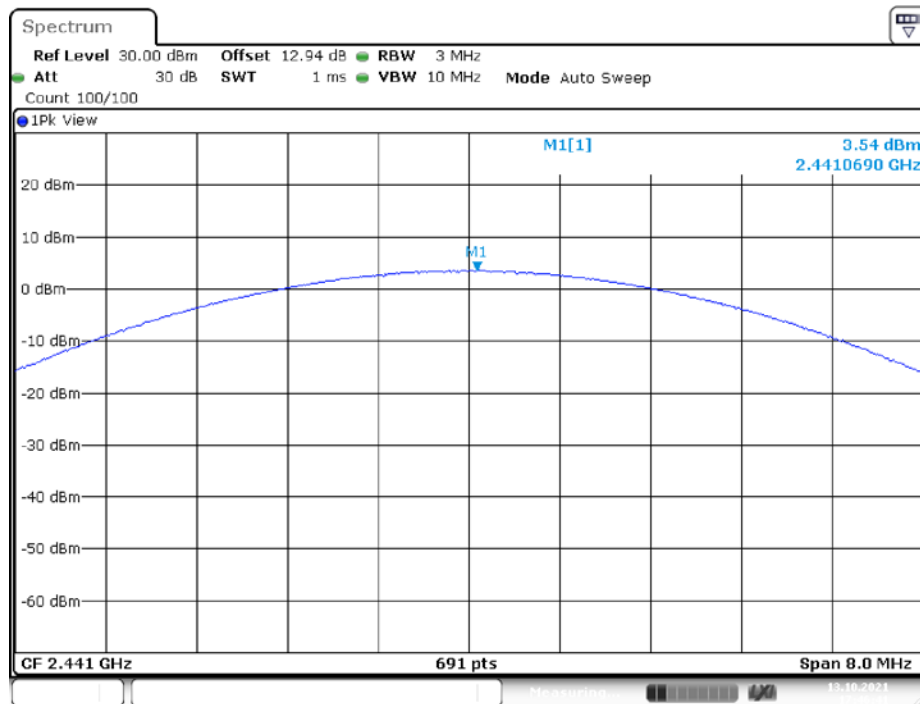
Date: 13.OCT.2021 17:45:57

## 3DH1\_Ant1\_2402MHz



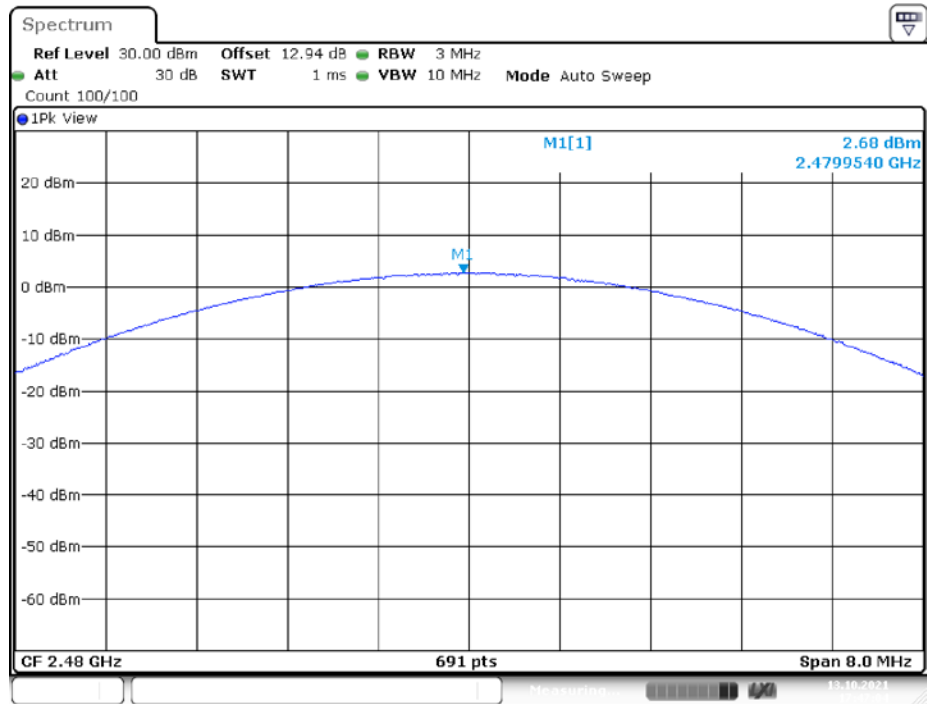
Date: 13.OCT.2021 17:46:20

## 3DH1\_Ant1\_2441MHz



Date: 13.OCT.2021 17:46:42

## 3DH1\_Ant1\_2480MHz



Date: 13.OCT.2021 17:47:05

## FCC §15.247(d) - BAND EDGES TESTING

### Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

### Test Data

#### Environmental Conditions

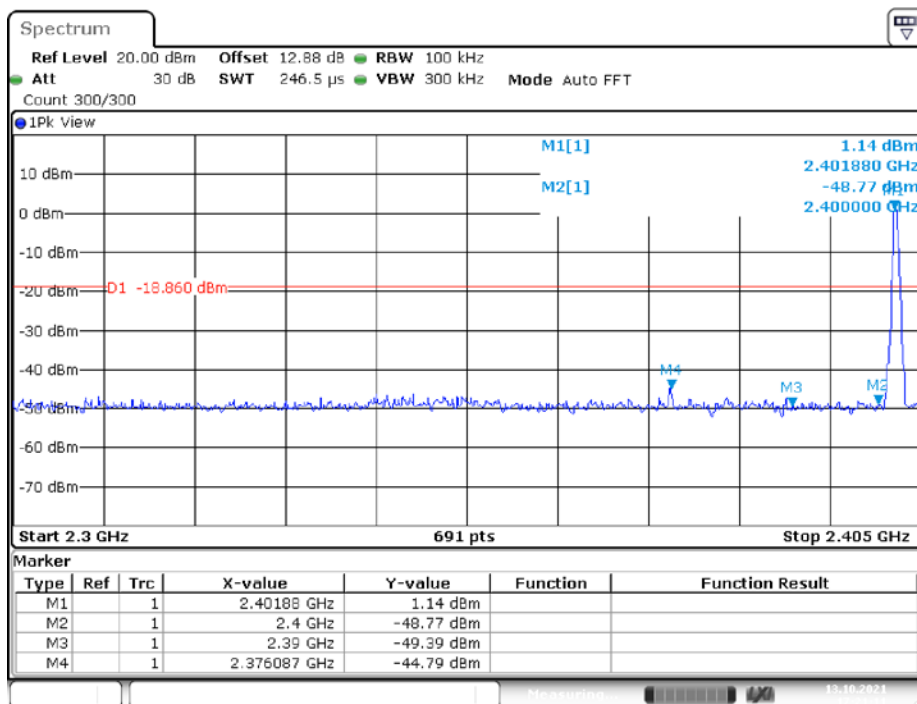
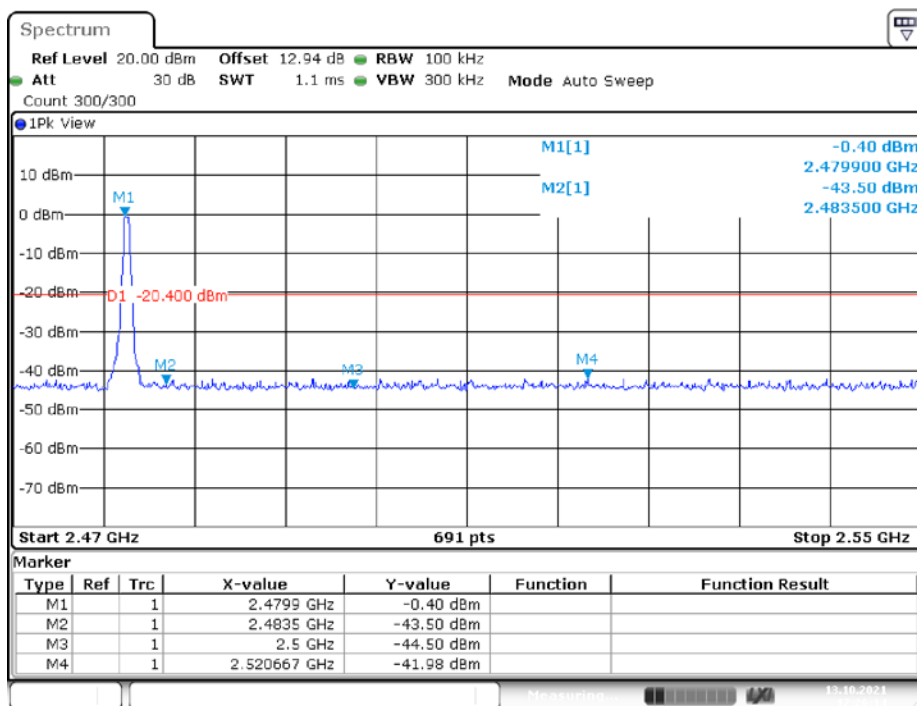
|                    |           |
|--------------------|-----------|
| Temperature:       | 24°C      |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Fan Yang on 2021-10-13.*

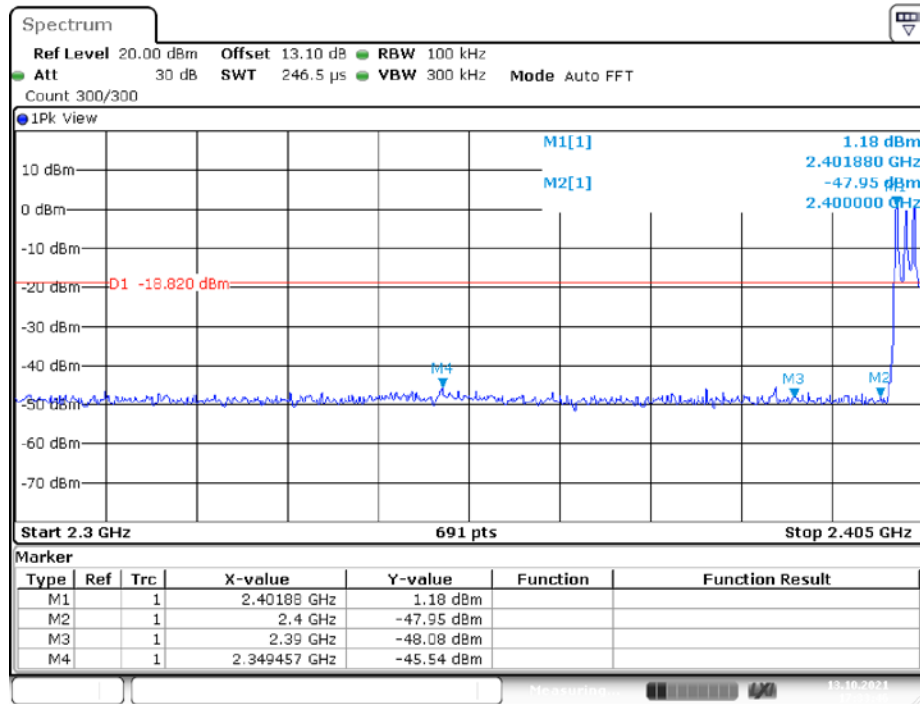
*EUT operation mode: Transmitting*

*Test Result: Compliant.*



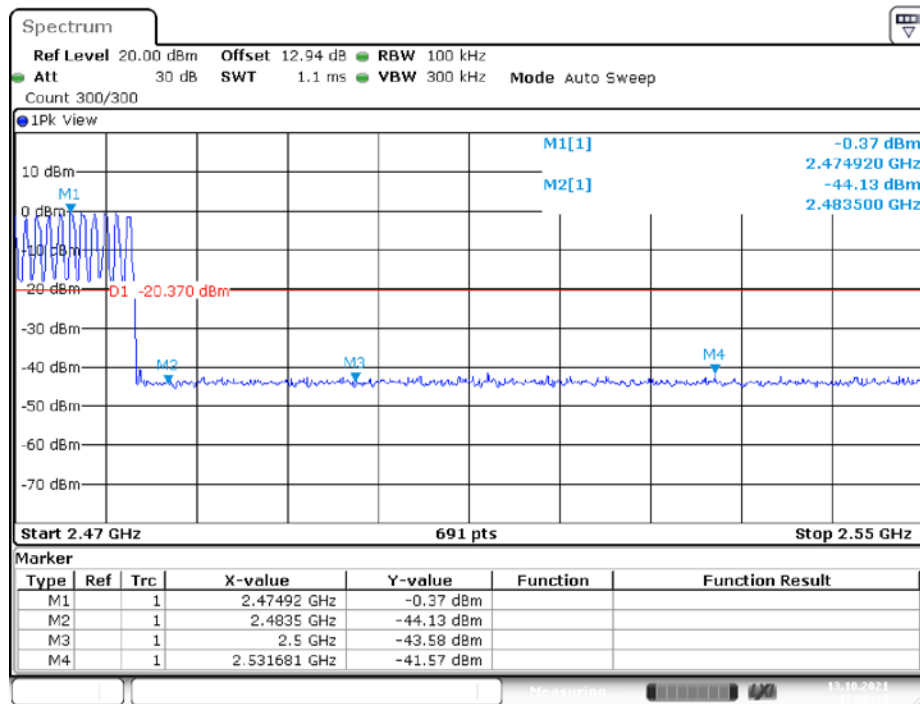
**Conducted Band Edge Result:****DH1\_Ant1\_Low\_2402MHz****DH1\_Ant1\_High\_2480MHz**

## DH1\_Ant1\_Low\_Hop\_2402MHz



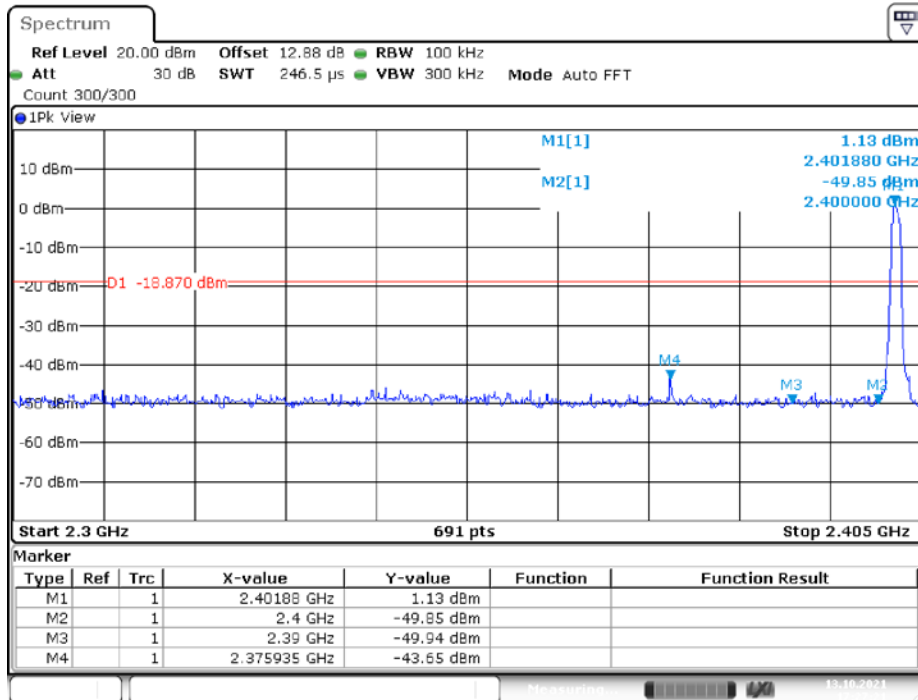
Date: 13.OCT.2021 17:33:47

## DH1\_Ant1\_High\_Hop\_2480MHz



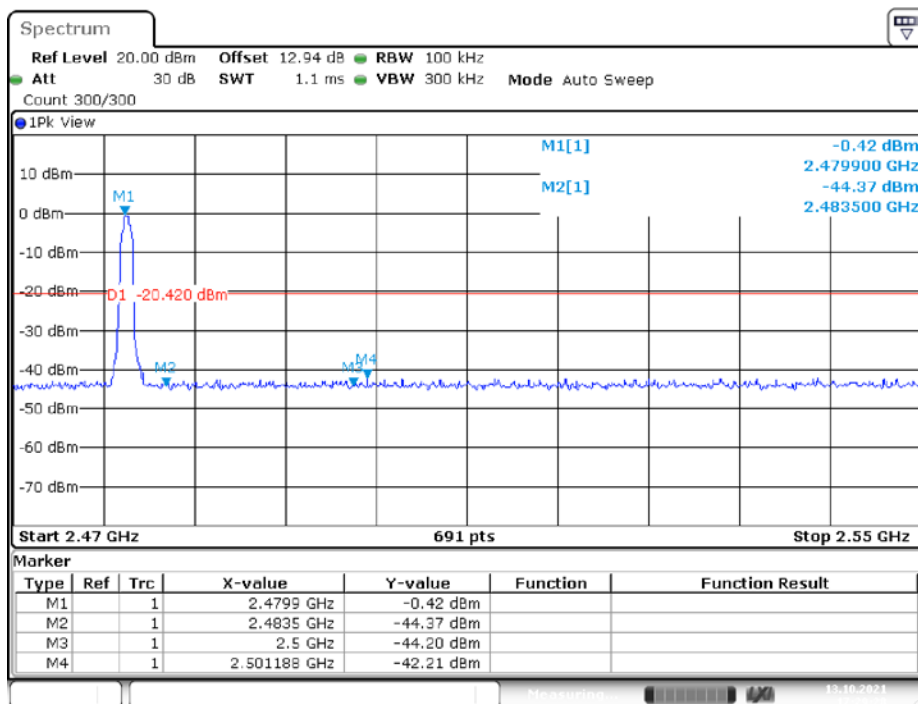
Date: 13.OCT.2021 17:36:31

## 2DH1\_Ant1\_Low\_2402MHz



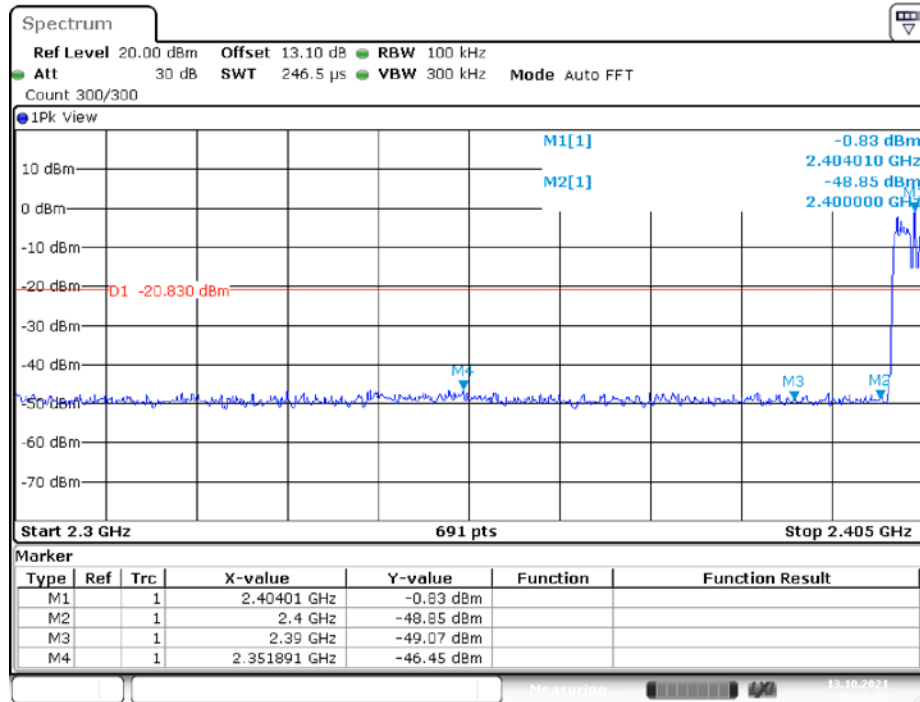
Date: 13.OCT.2021 17:27:22

## 2DH1\_Ant1\_High\_2480MHz



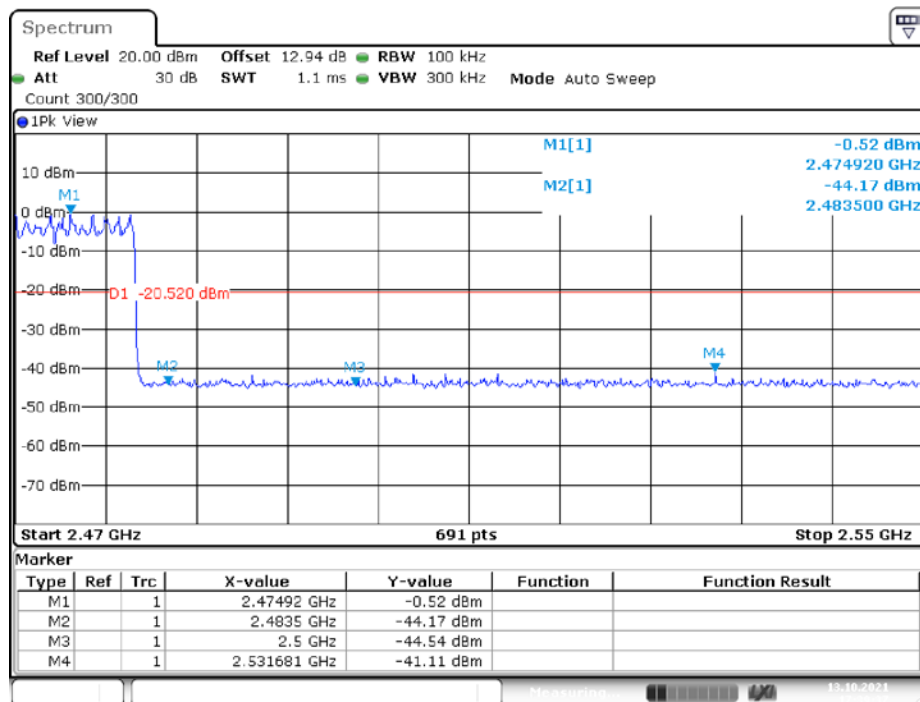
Date: 13.OCT.2021 17:29:29

## 2DH1\_Ant1\_Low\_Hop\_2402MHz



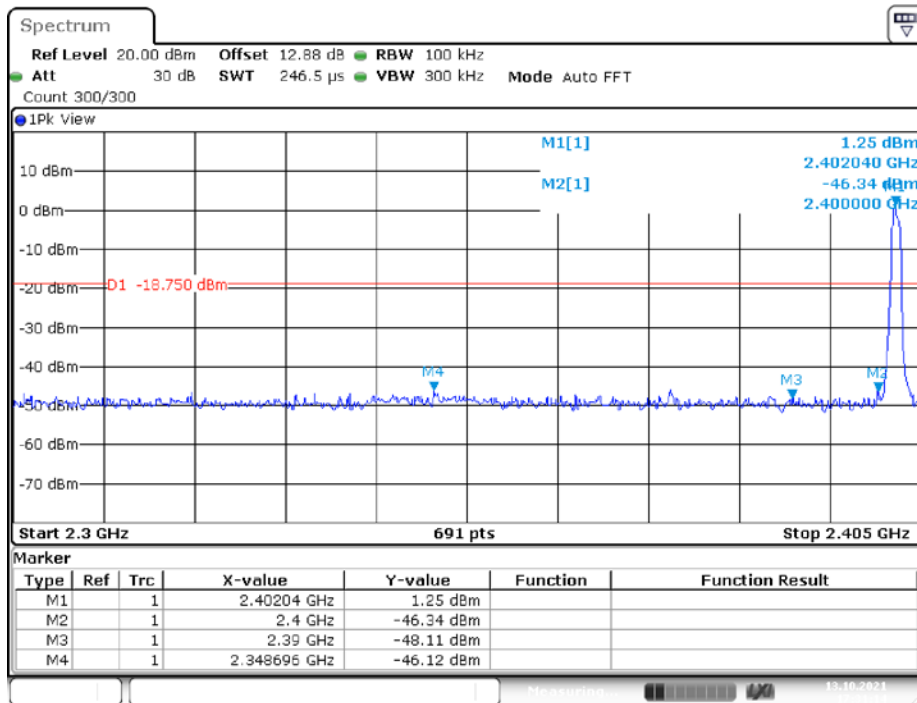
Date: 13.OCT.2021 17:36:53

## 2DH1\_Ant1\_High\_Hop\_2480MHz

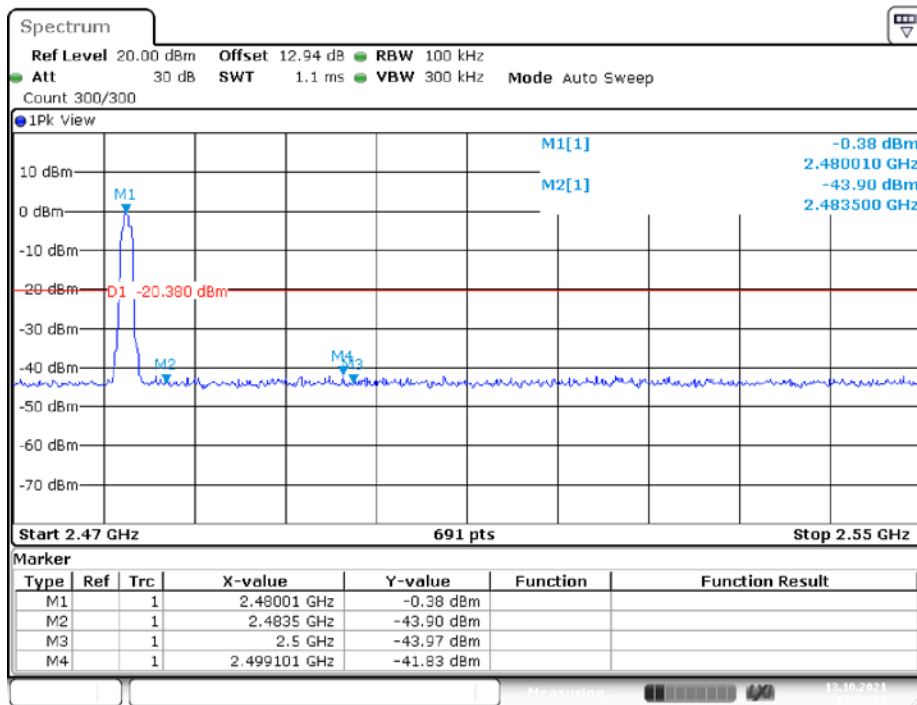


Date: 13.OCT.2021 17:39:38

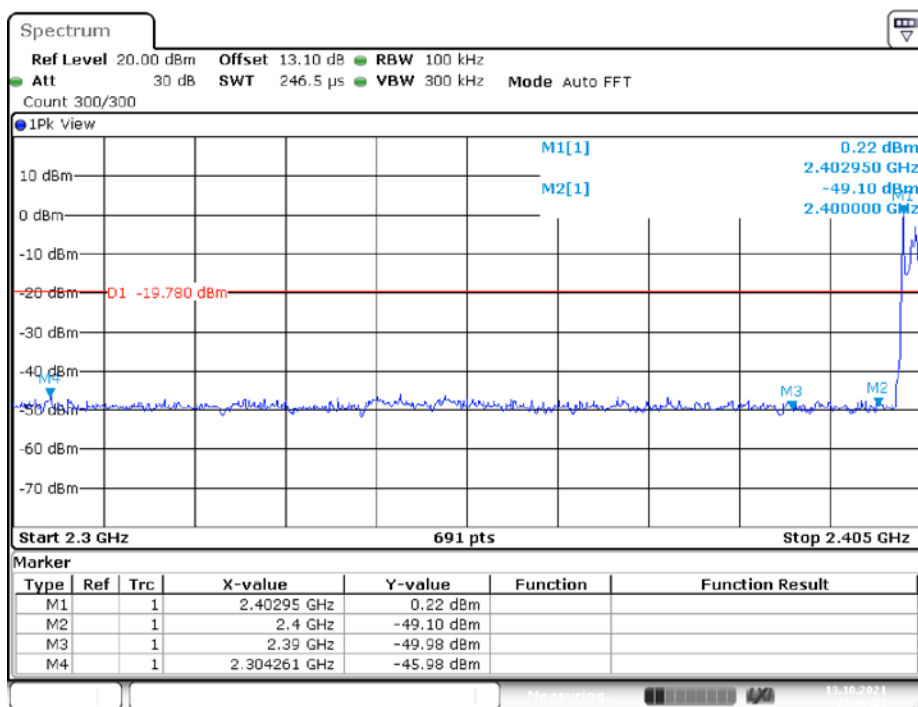
## 3DH1\_Ant1\_Low\_2402MHz



## 3DH1\_Ant1\_High\_2480MHz

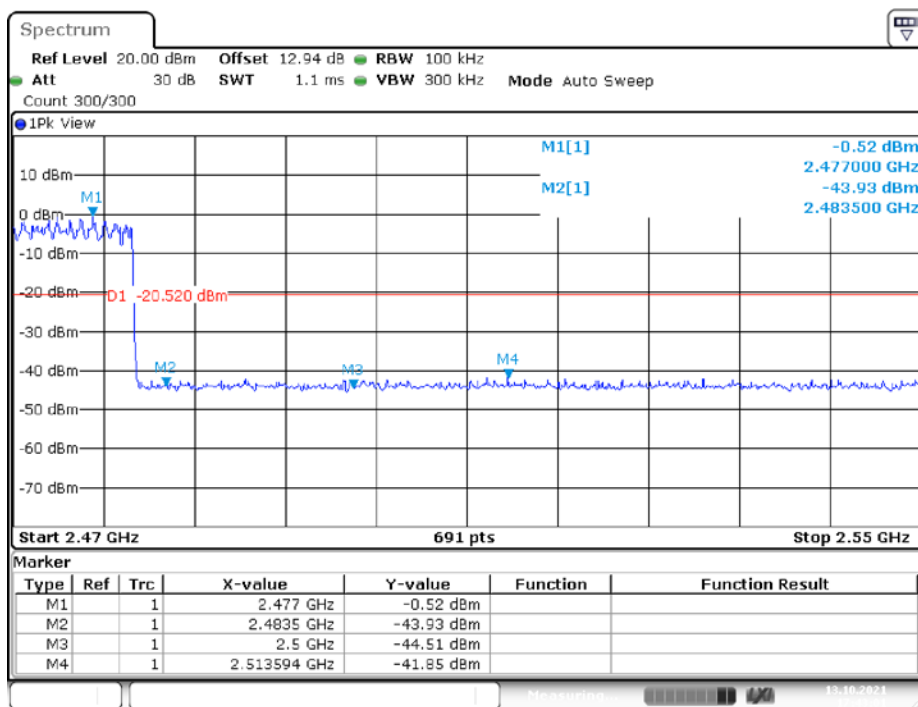


## 3DH1\_Ant1\_Low\_Hop\_2402MHz



Date: 13.OCT.2021 17:40:03

## 3DH1\_Ant1\_High\_Hop\_2480MHz



Date: 13.OCT.2021 17:43:02

\*\*\*\*\* END OF REPORT \*\*\*\*\*