

# TEST REPORT



**DT&C Co., Ltd.**

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Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2111-0142

2. Customer

- Name (FCC) : Point Mobile Co., LTD. / Name (IC) : POINTMOBILE CO.,LTD
- Address (FCC) : B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709  
Address (IC) : B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)

3. Use of Report : FCC & IC Certification

4. Product Name / Model Name : Mobile Computer / PM75W

FCC ID : V2X-PM75W

IC : 10664A-PM75W

5. FCC Regulation(s): Part 15.407

IC Standard(s): RSS-247 Issue 2

Test Method used: KDB905462 D02v02 , KDB905462 D03v1r02

6. Date of Test : 2021.10.21 ~2021.10.22

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

|             |                                                                                                         |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Affirmation | Tested by                                                                                               | Reviewed by                                                                                                         |
|             | Name : SeungMin Gil  | Name : JaeJin Lee  (Signature) |

2021 . 11 . 26 .

**DT&C Co., Ltd.**

If this report is required to confirmation of authenticity, please contact to [report@dtnc.net](mailto:report@dtnc.net)

## Test Report Version

| Test Report No. | Date          | Description   | Revised by   | Reviewed by |
|-----------------|---------------|---------------|--------------|-------------|
| DRTFCC2111-0142 | Nov. 26, 2021 | Initial issue | SeungMin Gil | JaeJin Lee  |
|                 |               |               |              |             |
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## 1. GENERAL INFORMATION EUT DESCRIPTION

### 1.1. EUT Description

|                                        |                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment class                        | Unlicensed National Information Infrastructure (UNII)                                                                                                                                                                                                                                             |
| Product Name                           | Mobile Computer                                                                                                                                                                                                                                                                                   |
| Model Name                             | PM75W                                                                                                                                                                                                                                                                                             |
| Add Model Name                         | -                                                                                                                                                                                                                                                                                                 |
| Firmware Version Identification Number | 75.00                                                                                                                                                                                                                                                                                             |
| EUT Serial Number                      | Conducted : 21197A0021                                                                                                                                                                                                                                                                            |
| Power supply                           | DC 3.85 V                                                                                                                                                                                                                                                                                         |
| EUT capabilities                       | DFS                                                                                                                                                                                                                                                                                               |
| Operational mode                       | <input type="checkbox"/> Master mode<br><input checked="" type="checkbox"/> Client mode without radar detection<br><input type="checkbox"/> Client mode with radar detection                                                                                                                      |
| Test condition                         | <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated                                                                                                                                                                                                                   |
| Frequency Range                        | <b>U-NII 2A(5 250 MHz ~ 5 350 MHz)</b><br><ul style="list-style-type: none"> <li>802.11a/n(HT20)/ac(VHT20): 5 260 MHz ~ 5 320 MHz</li> <li>802.11n(HT40)/ac(VHT40): 5 270 MHz ~ 5 310 MHz</li> <li>802.11ac(VHT80): 5 290 MHz</li> </ul>                                                          |
|                                        | <b>U-NII 2C(5 470 MHz ~ 5 725 MHz)</b><br><ul style="list-style-type: none"> <li>802.11a/n(HT20)/ac(VHT20): 5 500 MHz ~ 5 580 MHz, 5 660 MHz ~ 5 720 MHz</li> <li>802.11n(HT40)/ac(VHT40): 5 510 MHz ~ 5 550 MHz, 5 670 MHz ~ 5 710 MHz</li> <li>802.11ac(VHT80): 5 530 MHz, 5 690 MHz</li> </ul> |
| Modulation type                        | OFDM                                                                                                                                                                                                                                                                                              |
| Antenna specification                  | <b>Antenna type:</b> LDS Antenna<br><b>Antenna gain</b><br>U-NII 2A : 2.22 dBi<br>U-NII 2C : 1.97 dBi                                                                                                                                                                                             |

Note1: The above EUT information was declared by the manufacturer.

Note2: Refer to UNII report

### 1.2. Test Support Equipment

| Equipment             | Model No. | Serial No.    | Manufacturer | Note                                                                                                          |
|-----------------------|-----------|---------------|--------------|---------------------------------------------------------------------------------------------------------------|
| Access Point (Master) | DIR-868L  | R3X81E6000093 | D-Link       | FCC ID: KA2IR868LA1<br>Contains FCC ID: RRK2012060056-1<br>IC: 4216A-IR868LA1<br>Contains IC: 4833A-WMCAC01A1 |

### 1.3. Testing Laboratory

|                                                                                                                                                                                                                                                                               |   |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------|
| <b>DT&amp;C Co., Ltd.</b>                                                                                                                                                                                                                                                     |   |                  |
| The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.<br>The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014. |   |                  |
| - FCC & IC MRA Designation No. : KR0034                                                                                                                                                                                                                                       |   |                  |
| - ISED#: 5740A                                                                                                                                                                                                                                                                |   |                  |
| <a href="http://www.dtnc.net">www.dtnc.net</a>                                                                                                                                                                                                                                |   |                  |
| Telephone                                                                                                                                                                                                                                                                     | : | + 82-31-321-2664 |
| FAX                                                                                                                                                                                                                                                                           | : | + 82-31-321-1664 |

### 1.4. Testing Environment

| Ambient Condition   |                 |
|---------------------|-----------------|
| ▪ Temperature       | +22 °C ~ +24 °C |
| ▪ Relative Humidity | +39 % ~ +43 %   |

## 2. DYNAMIC FREQUENCY SELECTION TEST DESCRIPTION

### 2.1. Applicability of DFS requirements prior to use of a channel

| Requirement                     | Operational mode |                                |                             |
|---------------------------------|------------------|--------------------------------|-----------------------------|
|                                 | Master           | Client without radar detection | Client with radar detection |
| Non-Occupancy Period            | Yes              | Not required                   | Yes                         |
| DFS Detection Threshold         | Yes              | Not required                   | Yes                         |
| Channel Availability Check time | Yes              | Not required                   | Not required                |
| U-NII Detection Bandwidth       | Yes              | Not required                   | Yes                         |

### 2.2. Applicability of DFS requirements during normal operation

| Requirement                       | Operational mode                      |                                |
|-----------------------------------|---------------------------------------|--------------------------------|
|                                   | Master or client with radar detection | Client without radar detection |
| DFS Detection Threshold           | Yes                                   | Not required                   |
| Channel Closing Transmission Time | Yes                                   | Yes                            |
| Channel Move time                 | Yes                                   | Yes                            |
| U-NII Detection Bandwidth         | Yes                                   | Not required                   |

| Additional requirements for devices with multiple bandwidth modes | Operational mode                      |                                                      |
|-------------------------------------------------------------------|---------------------------------------|------------------------------------------------------|
|                                                                   | Master or client with radar detection | Client without radar detection                       |
| U-NII Detection Bandwidth and Statistical Performance Check       | All BW modes must be tested           | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time           | Test using widest BW mode available   | Test using the widest BW mode available for the link |
| All other tests                                                   | Any single BW mode                    | Not required                                         |

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

The EUT was tested according to the following specification:

**905462 D02 UNII DFS Compliance Procedure New Rules v02**

**905462 D03 UNII Client Without Radar Detection New Rules v01r02**

### 2.3. Requirements of client devices

- a) A Client Device will not transmit before having received appropriate control signals from a Master Device.
- b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.
- c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.
- d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.
- e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes.  
Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

### 2.4. DFS response requirement values

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Value                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Minimum 30 minutes                                                                                     |
| Channel availability check time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 60 seconds                                                                                             |
| Channel move time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 seconds<br>See Note 1.                                                                              |
| Channel closing transmission time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. |
| <p><b>Note 1:</b> Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions..</p> |                                                                                                        |

## 2.5. DFS detection thresholds

Below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power spectral density<br>requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -64 dBm                          |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

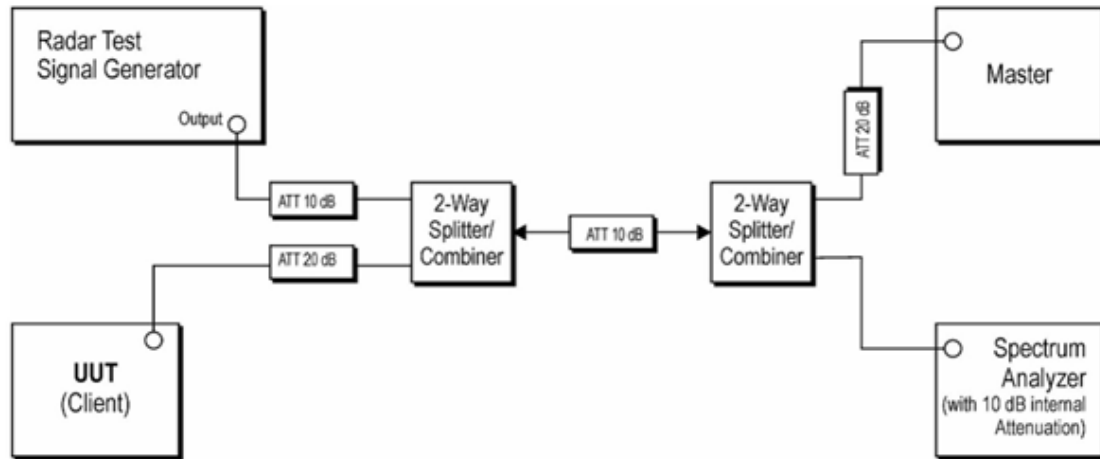
## 2.6. Radar test waveforms

| Radar type                                                                                                                                                                                                                                                                                                                                                                         | Pulse width (μsec) | PRI (μsec)                                                                                                                                                    | Number of pulses                                                                                                        | Minimum percentage of successful detection | Minimum number of trials |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                                                                                                                                                                                                                                                                                                                                                                                  | 1                  | 1428                                                                                                                                                          | 18                                                                                                                      | See Note 1                                 | See Note 1               |
| 1                                                                                                                                                                                                                                                                                                                                                                                  | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in section 2.6.2.                                                               | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$ | 60 %                                       | 30                       |
|                                                                                                                                                                                                                                                                                                                                                                                    |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                                         |                                            |                          |
| 2                                                                                                                                                                                                                                                                                                                                                                                  | 1 ~ 5              | 150 ~ 230                                                                                                                                                     | 23 ~ 29                                                                                                                 | 60 %                                       | 30                       |
| 3                                                                                                                                                                                                                                                                                                                                                                                  | 6 ~ 10             | 200 ~ 500                                                                                                                                                     | 16 ~ 18                                                                                                                 | 60 %                                       | 30                       |
| 4                                                                                                                                                                                                                                                                                                                                                                                  | 11 ~ 20            | 200 ~ 500                                                                                                                                                     | 12 ~ 16                                                                                                                 | 60 %                                       | 30                       |
| Aggregate (Radar Types 1-4)                                                                                                                                                                                                                                                                                                                                                        |                    |                                                                                                                                                               |                                                                                                                         | 80 %                                       | 120                      |
| <p><b>Note 1:</b> As the EUT is a Client Device with no Radar Detection only one type radar pulse is required for the testing.</p> <p>Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.</p> <p><b>Note 2:</b> This report was applied Short Pulse Radar Type 0.</p> |                    |                                                                                                                                                               |                                                                                                                         |                                            |                          |

### 3. Test procedure

#### 3.1. Setup for Client with injection at the Master

The setup method is shown below diagram. The method according to the 905462 D02 UNII DFS Compliance Procedure New Rules v02 - section 7.2



#### 3.2. Spectrum analyzer setting parameter

The setting parameter is shown below and it according to the 905462 D02 UNII DFS Compliance Procedure New Rules v02 - section 7.5

- 1) **RBW /VBW  $\geq$  3MHz**
- 2) **Detector = Peak**
- 3) **Span = zero span**
- 4) **Sweep time  $\geq$  12s**

#### 3.3. Conducted test procedure

- 1) One frequency will be chosen from the Operating Channels of the UUT within the 5 250 MHz - 5 350 MHz or 5 470 MHz - 5 725 MHz bands.
- 2) The Client Device (EUT) is set up the above diagram and communications between the Master device and the Client is established.
- 3) Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test. (The MPEG file specified by the FCC ("6 ½ Magic Hours"))
- 4) An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- 5) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 12 seconds for Radar Type 0 to ensure detection occurs.
- 6) After the initial radar burst the channel is monitored for 30 minutes to ensure no transmissions or beacons occur. A second monitoring setup is used to verify that the Master and Client have both moved to different channels.

## 4. SUMMARY OF TESTS

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Limit                                                      | Status<br>Note 1      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------|
| Channel move time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 seconds                                                 | <b>C</b><br>Note 2    |
| Channel closing transmission time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200 ms + aggregate of 60ms over remaining 10 second period | <b>C</b><br>Note 2, 3 |
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30 minutes                                                 | <b>C</b>              |
| <p><b>Note 1:</b> <b>C</b>=Comply    <b>NC</b>=Not Comply    <b>NT</b>=Not Tested    <b>NA</b>=Not Applicable</p> <p><b>Note 2:</b> Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 3:</b> The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> |                                                            |                       |

## 5. LIST OF EQUIPMENTS

| Type              | Manufacturer         | Model                            | Cal.Date<br>(yy/mm/dd) | Next.Cal.Date<br>(yy/mm/dd) | S/N           |
|-------------------|----------------------|----------------------------------|------------------------|-----------------------------|---------------|
| Spectrum Analyzer | Agilent Technologies | N9020A                           | 21/08/30               | 22/08/30                    | MY46471622    |
| DC Power Supply   | Agilent Technologies | 66332A                           | 20/12/16               | 21/12/16                    | GB37470200    |
| Multimeter        | FLUKE                | 17B+                             | 20/12/16               | 21/12/16                    | 36390701WS    |
| Signal Generator  | Rohde Schwarz        | SMBV100A                         | 20/12/16               | 21/12/16                    | 255571        |
| Thermohygrometer  | BODYCOM              | BJ5478                           | 20/12/16               | 21/12/16                    | 120612-2      |
| PXIS-2670(G)      | ADLINK               | 3025C                            | 21/06/24               | 22/06/24                    | 302581/834    |
| PXIS-2670(G)      | ADLINK               | 3035C                            | 21/06/24               | 22/06/24                    | 303581/927    |
| Attenuator        | Aeroflex/Weinschel   | 86-20-11                         | 21/06/24               | 22/06/24                    | 432           |
| Power Splitter    | Anritsu              | K241B                            | 21/06/24               | 22/06/24                    | 1701101       |
| Power Splitter    | Anritsu              | K241B                            | 21/06/24               | 22/06/24                    | 020611        |
| Power Divider     | Weinschel            | 1515-1                           | 20/12/16               | 21/12/16                    | TW490         |
| Cable             | DT&C                 | CABLE                            | 21/01/05               | 22/01/05                    | RFC-049       |
| Cable             | DT&C                 | CABLE                            | 21/01/05               | 22/01/05                    | RFC-050       |
| Cable             | DT&C                 | CABLE                            | 21/01/05               | 22/01/05                    | RFC-051       |
| Cable             | DT&C                 | CABLE                            | 21/01/05               | 22/01/05                    | RFC-052       |
| Cable             | DT&C                 | CABLE                            | 21/01/05               | 22/01/05                    | RFC-053       |
| Cable             | DT&C                 | CABLE                            | 21/01/05               | 22/01/05                    | RFC-067       |
| Test Software     | Aeroflex.,Ltd        | DFS Radar simulator and Analyzer | NA                     | NA                          | Version 2.5.2 |

Note1: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

## 6. TEST RESULTS

### 6.1. Move time and aggregate time

#### 6.1.1. U-NII-2A : 5 310 MHz

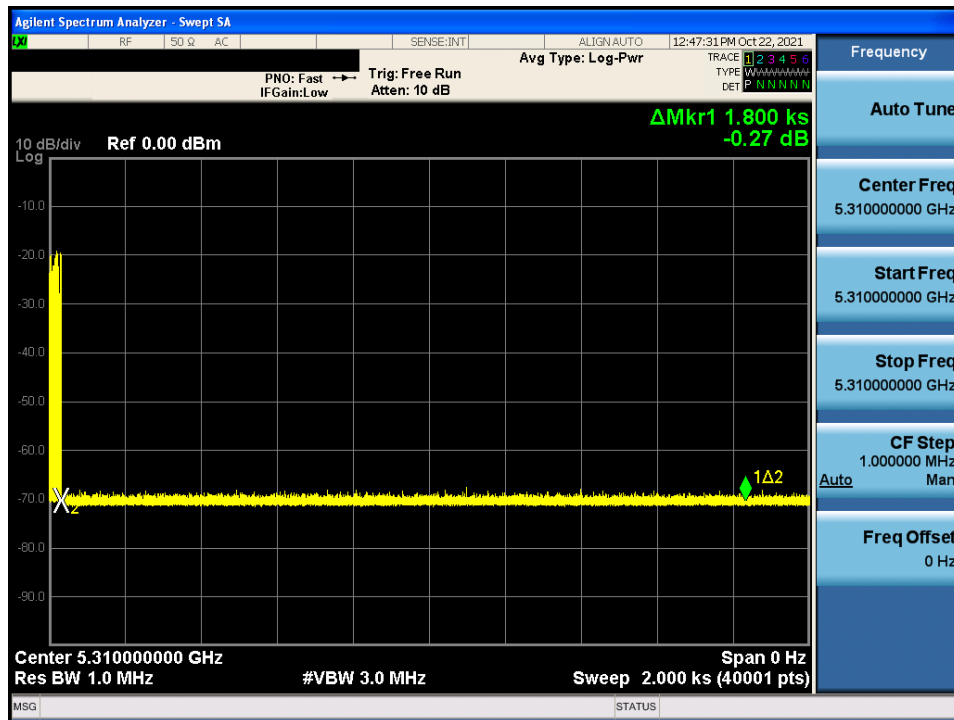


#### 6.1.2. U-NII-2C : 5 510 MHz

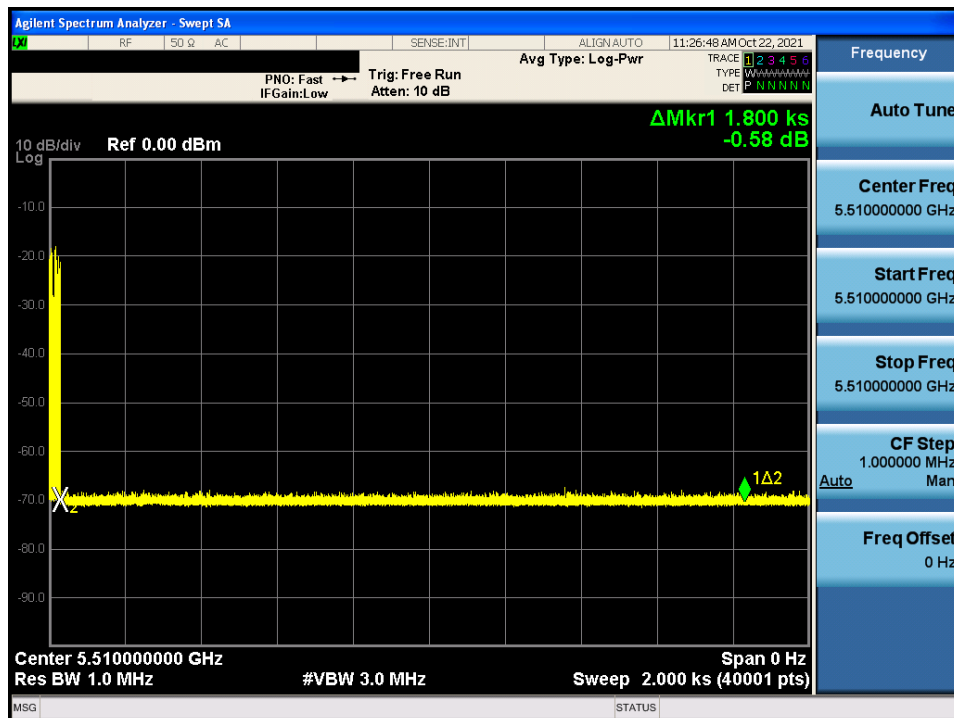


## 6.2. Non-occupancy period

### 6.2.1. U-NII-2A: 5 310 MHz



### 6.2.2. U-NII-2C: 5 510 MHz

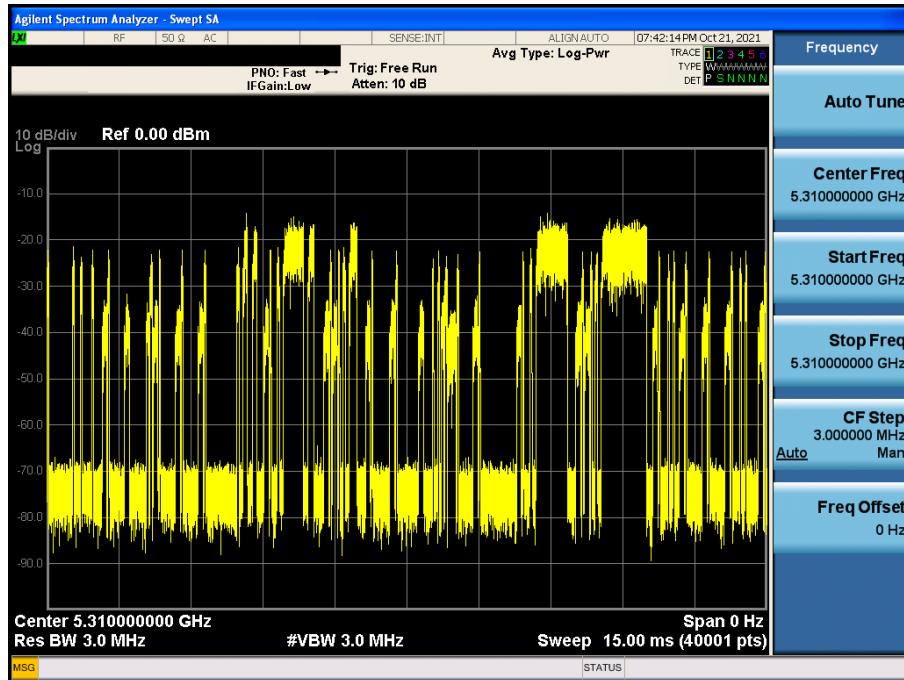


## APPENDIX I

### Channel loading

#### U-NII-2A: 5 310 MHz

Timing plots: A minimum channel loading of approximately 17 % or greater



#### - Spectrum Analyzer setting

- 1) Span: Zero
- 2) Sweep points: 40 001

#### Calculation:

$$\text{Channel loading} = (\text{Channel loading sweep points} / \text{Total sweep points}) \times 100$$

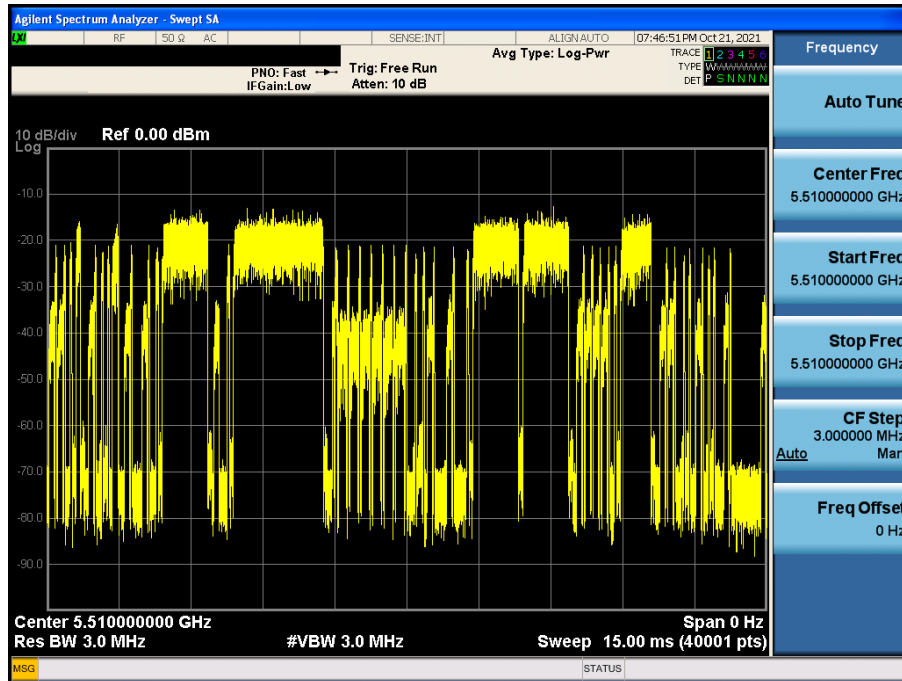
$$= (9\,963 / 40\,001) \times 100 = 24.91 \%$$

Note: The Channel loading sweep points were extracted from the spectrum and calculated.

## Channel loading

### U-NII-2C: 5 510 MHz

Timing plots: A minimum channel loading of approximately 17 % or greater



#### - Spectrum Analyzer setting

- 1) Span: Zero
- 2) Sweep points: 40 001

#### Calculation:

$$\text{Channel loading} = (\text{Channel loading sweep points} / \text{Total sweep points}) \times 100$$

$$= (17\,877 / 40\,001) \times 100 = 44.69 \%$$

Note: The Channel loading sweep points were extracted from the spectrum and calculated.