



# PCTEST ENGINEERING LABORATORY, INC.

7185 Oakland Mills Road, Columbia, MD 21046 USA  
Tel. 410.290.6652 / Fax 410.290.6654  
<http://www.pctest.com>



## MEASUREMENT REPORT FCC PART 15.407 / ISED RSS-247 DFS

**Applicant Name:**  
LG Electronics MobileComm U.S.A  
1000 Sylvan Avenue  
Englewood Cliffs, NJ 07632  
United States

**Date of Testing:**  
April 12 - June 19, 2018  
**Test Site/Location:**  
PCTEST Lab. Columbia, MD, USA  
**Test Report Serial No.:**  
1M1804120069-07-R1.ZNF

|                   |  |
|-------------------|--|
| <b>FCC ID:</b>    | <b>ZNFQ710WA</b>                       |
| <b>IC:</b>        | <b>2703C-Q710WA</b>                    |
| <b>APPLICANT:</b> | <b>LG Electronics MobileComm U.S.A</b> |

**Application Type:** Certification  
**Model:** LM-Q710WA  
**Additional Model(s):** LMQ710WA, Q710WA  
**HVIN:** LM-Q710WA, LMQ710WA, Q710WA  
**EUT Type:** Client Only Device, No Radar Detection Capability  
**Max. RF Output Power:** 83.176 mW (19.20 dBm) Conducted (802.11a UNII Band 2A)  
93.111 mW (19.69 dBm) Conducted (802.11a UNII Band 2C)  
**Frequency Range:** 5260 – 5320 MHz (UNII-2A Band)  
5500 – 5700 MHz (UNII-2C Band)  
**FCC Classification:** Unlicensed National Information Infrastructure (UNII)  
**FCC Rule Part(s):** Part 15.407(UNII)  
**ISED Specification:** RSS-247 Issue 2  
**Test Procedure(s):** KDB 905462 D02 v02

This revised Test Report (S/N:1M1804120069-07-R1.ZNF) supersedes and replaces the previously issued test report (S/N: 1M1804120069-07.ZNF) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462 D02 v02 Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5.25 – 5.35 GHz and 5.47 – 5.725 GHz Bands Incorporating Dynamic Frequency Selection. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Randy Ortanez  
President



|  |  |   |  |  |
|--|--|---|--|--|
| <b>FCC ID:</b> ZNFQ710WA                             |  | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |  | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1M1804120069-07-R1.ZNF-R1 | <b>Test Dates:</b><br>April 12 - June 19, 2018 | <b>EUT Type:</b><br>Portable Handset      |  | Page 1 of 14                           |

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## 1.0 INTRODUCTION

### 1.1 Scope

This report has been prepared to demonstrate compliance with the requirements for Dynamic Frequency Selection (DFS) as stated in KDB 905462 D02 v02. Testing was performed on the **LG Portable Handset FCC ID: ZNFQ710WA**. As of July 20, 2007 all devices operating in the 5250 – 5350 MHz and/or the 5470 – 5725 MHz bands must comply with the DFS requirements. As the EUT does not have radar detection capability it was evaluated as a Client Only Device. All test results reported herein are applicable to the sample selected for testing. The unit used for testing was supplied by LG Electronics MobileComm U.S.A.

### 1.2 Evaluation Procedure

Conducted test methodology was used for the DFS evaluation procedure of the EUT. No deviations to the test procedure and test methods occurred during the evaluation of the EUT.

### 1.3 Summary of Test Results

The EUT was found to be compliant with the requirements for DFS as required for a Client Device per Part 15.407(h), RSS-247 and KDB 905462 D02 v02. The following table lists the measured parameters. The actual data and plots can be found in Section 5 and 6 of this report.

|                                   | Parameter                         | Measured   | Limit   | Result |
|-----------------------------------|-----------------------------------|--|---|--------|
| 5260 – 5320 MHz<br>UNII – 2A Band | Channel Move Time                 | 1.33 s   | 10 seconds  | Pass   |
|                                   | Channel Closing Transmission Time | < 200ms<br>+ 0.62 ms (aggregate)                           | 200ms + aggregate of<br>60ms over remaining<br>10 second period | Pass   |
|                                   | Client beacon test                | Monitored for 10<br>minutes with no client<br>transmission | No client transmission<br>occurred                              | Pass   |
| 5470 – 5725 MHz<br>UNII – 2C Band | Channel Move Time                 | 0.09 s   | 10 seconds  | Pass   |
|                                   | Channel Closing Transmission Time | < 200ms<br>+ 0.13 ms (aggregate)                           | 200ms + aggregate of<br>60ms over remaining<br>10 second period | Pass   |
|                                   | Client beacon test                | Monitored for 10<br>minutes with no client<br>transmission | No client transmission<br>occurred                              | Pass   |

Table 1-1. DFS Test Results Summary

|  |   |                                      |   |  |
|--|---|--------------------------------------|---|--|
| FCC ID: ZNFQ710WA                                    |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      |  | <b>Approved by:</b><br>Quality Manager |
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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFQ710WA**.

**Mode of Operation:**

|   |                                     |
|---|-------------------------------------|
| <b>Master Device</b>                      | <input type="checkbox"/>            |
| <b>Client Device (No radar detection)</b> | <input checked="" type="checkbox"/> |
| <b>Client Device with Radar Detection</b> | <input type="checkbox"/>            |

| Parameters of EUT: |  |
|--------------------|--|
| Frequency          | 5260 – 5320 MHz<br>5500 – 5700 MHz   |
| Output Power:      | 83.176 mW (19.20 dBm) Conducted (802.11a UNII Band 2A)<br>93.111 mW (19.69 dBm) Conducted (802.11a UNII Band 2C) |
| Modulation:        | OFDM   |
| Channel Bandwidth: | 20, 40, 80 MHz   |

**Table 2-1. Parameters of EUT**

**Test Device Serial No.:** 00115

### 2.2 EUT Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, 802.11a/n/ac UNII, Bluetooth (1x, EDR, LE), NFC

### 2.3 Modifications

No modifications to the EUT were required in order to comply with the DFS specifications.

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## 3.0 DESCRIPTION OF DYNAMIC FREQUENCY SELECTION TEST

### 3.1 Applicability

The following table from KDB 905462 D02 v02 lists the applicable requirements for the DFS testing. The device evaluated in this report is considered a client device without radar detection capability.

| 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                |
| Uniform Spreading               | Yes              | Not required                   | Not required                |
| U-NII Detection Bandwidth       | Yes              | Not required                   | Yes                         |

**Table 3-1. DFS Applicability**

| Requirement                       | Operational Mode |                                |                             |
|-----------------------------------|------------------|--------------------------------|-----------------------------|
|                                   | Master           | Client Without Radar Detection | Client With Radar Detection |
| DFS Detection Threshold           | Yes              | Not required                   | Yes                         |
| Channel Closing Transmission Time | Yes              | Yes                            | Yes                         |
| Channel Move Time                 | Yes              | Yes                            | Yes                         |
| U-NII Detection Bandwidth         | Yes              | Not required                   | Yes                         |
| Client Beacon Test                | N/A              | Yes                            | Yes                         |

**Table 3-2. DFS Applicability During Normal Operation**

### 3.2 Requirements

Per KDB 905462 D02 v02 the following are the requirements for 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.

|   |   |                                       |   |                                 |
|---|---|---------------------------------------|---|---------------------------------|
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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.

Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.

| 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. |
| U-NII Detection Bandwidth   | Minimum 80% of the U-NII 99% transmission power bandwidth. See Note 3.                                 |
| <p><b>Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:</b></p> <ul style="list-style-type: none"> <li>• For the Short Pulse Radar Test Signals this instant is the end of the Burst.</li> <li>• For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.</li> <li>• For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.</li> </ul> <p><b>Note 2: 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.</b></p> <p><b>Note 3: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</b></p> |  |

**Table 3-3: DFS Response Requirements**

|   |   |                               |                                 |
|---|---|-------------------------------|---------------------------------|
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### 3.3 DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

| Maximum Transmit Power   | Value<br>(See Notes 1 and 2) |
|--|------------------------------|
| ≥ 200 milliwatt  | -64 dBm                      |
| < 200 milliwatt  | -62 dBm                      |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.<br><br>Note 2: 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. |                              |

**Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection**

### 3.4 Parameters of DFS Test Signals

As the EUT is a Client Device with no Radar Detection only one type radar pulse is required for the testing. Radar Pulse type 1 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time. Table 3-5 lists the parameters for the Short Pulse Radar Waveforms. A plot of the Radar Pulse Type 1 used for testing is included in Section 5.0 of this report.

| Radar Type                  | Pulse Width<br>(µsec) | PRI<br>(µsec) | Number<br>of<br>Pulses | Minimum<br>Percentage of<br>Successful<br>Detection | Minimum<br>Number of<br>Trials |
|-----------------------------|-----------------------|---------------|------------------------|---|--------------------------------|
| 1                           | 1                     | 1428          | 18                     | 60%   | 30                             |
| 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                            |

**Table 3-5: Parameters for Short Pulse Radar Waveforms**

| Radar Type | Pulse Width<br>(µsec) | Chirp Width<br>(MHz) | PRI<br>(µsec) | Number<br>of Pulses<br>per Burst | Number<br>of Bursts | Minimum<br>Percentage of<br>Successful<br>Detection | Minimum<br>Number of<br>Trials |
|------------|-----------------------|----------------------|---------------|----------------------------------|---------------------|---|--------------------------------|
| 5          | 50 - 100              | 5 - 20               | 5 - 20        | 1 - 3                            | 8 - 20              | 60%   | 30                             |

**Table 3-6. Parameters for Long Pulse Radar Waveforms**

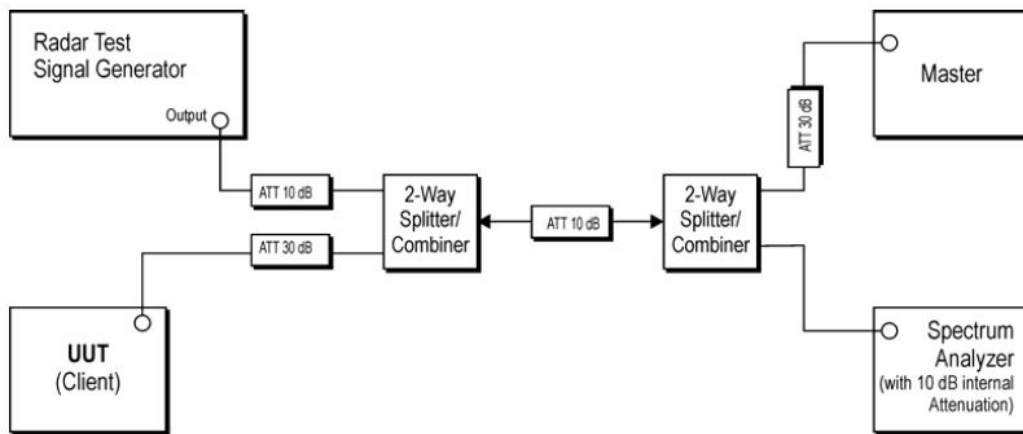
|   |   |                               |                                 |
|---|---|-------------------------------|---------------------------------|
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| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--|--------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 70%  | 30                       |

**Table 3-7. Parameters for Frequency Hopping Radar Waveforms**

### 3.5 Procedure

KDB 905462 D02 v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup. In Band 2A, one channel selected between 5260 and 5350 MHz is chosen for the testing. In Band 2C, one channel selected between 5500 and 5700 MHz was chosen for testing.



**Figure 3-1. Conducted Test Setup for DFS**

1. The “Aeroflex PXI DFS Radar Simulator and Analyzer Test Suite” is setup to provide a simulated radar pulse at the frequency that the Master and Client are operating. A Type 0 radar pulse was used.
2. The Client Device (EUT) is set up per the diagram in Figure 3-1 and communications between the Master device and the Client is established.
3. An MPEG or data file that is typical for the device is streamed from the Master to the Client to properly load the network.
4. The “Aeroflex PXI DFS Radar Simulator and Analyzer Test Suite” is set to record and display 12 seconds of time, starting from where the simulated radar is generated. This time domain plot captures any transmissions occurring up to and after 10sec. Aggregate time is computed to ensure compliance. (Note: the channel may be different since the Master and Client have changed channels due to the detection of the initial radar pulse.)
5. After the initial radar burst the channel is monitored for 10 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.

|   |   |   |                                 |
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## 4.0 TEST EQUIPMENT

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2006.

| Manufacturer | Model     | Description                        | Cal Date  | Cal Interval | Cal Due   | Serial Number |
|--------------|-----------|------------------------------------|-----------|--------------|-----------|---------------|
| Aeroflex     | PXI 82531 | PXI RF Synthesizer                 | 9/22/2016 | Biennial     | 9/22/2018 | 1082329       |
| Aeroflex     | PXI 82531 | PXI DFS Radar Simulator & Analyzer | 9/22/2016 | Biennial     | 9/22/2018 | 1082329       |
| Agilent      | N9020A    | MXA Signal Analyzer                | 1/24/2018 | Annual       | 1/24/2019 | US46470561    |
| Seekonk      | NC-100    | Torque Wrench 5/16", 8" lbs        | 1/22/2018 | Annual       | 1/22/2019 | N/A           |

**Table 4-1. Annual Test Equipment Calibration Schedule**

### 4.1 Additional Equipment

The following equipment was used in support of the DFS testing.

| Device | Manufacturer  | Model/Description | Description  | S/N:        |
|--------|---------------|-------------------|--------------|-------------|
| Master | Cisco Systems | AIR-CAP2702E-A-K9 | Access Point | FTX1834S05B |
|        |               | AIR-CT2504-K9 V03 | Controller   | PSZ18381P6K |

**Table 4-2. Support Equipment**

|  |   |                                      |  |
|--|---|--------------------------------------|--|
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## 5.0 TEST RESULTS

### Channel Loading Notes:

Per KDB 905462 D02 v02, timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, you can zero span the spectrum analyzer and approximate the transmission time.

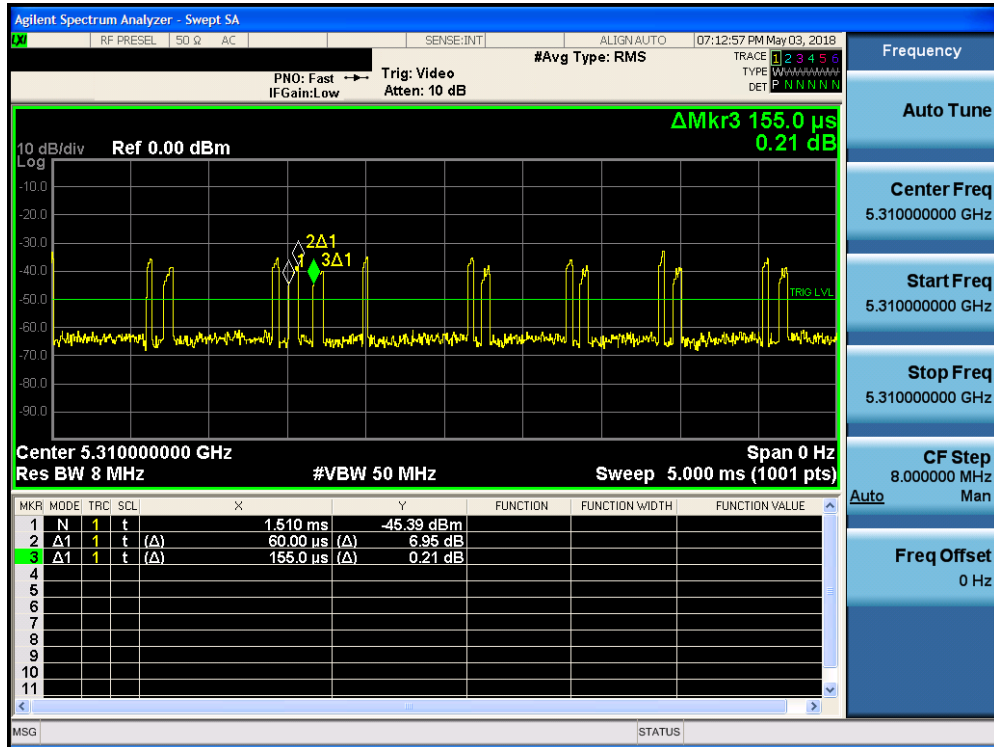
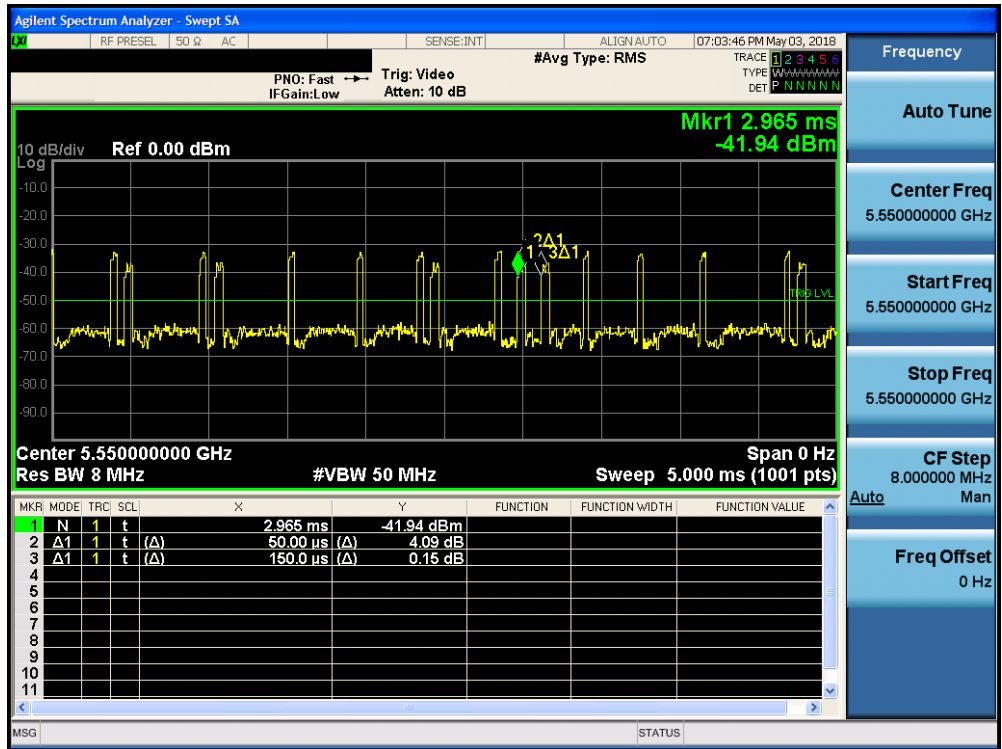


Figure 5-1. Band 2A Pulse Width

$$\text{Channel Loading} = \text{Pulse Width} / \text{Period} = 60 \mu\text{s} / 155 \mu\text{s} = 39\%$$

|   |   |                               |                                 |
|---|---|-------------------------------|---------------------------------|
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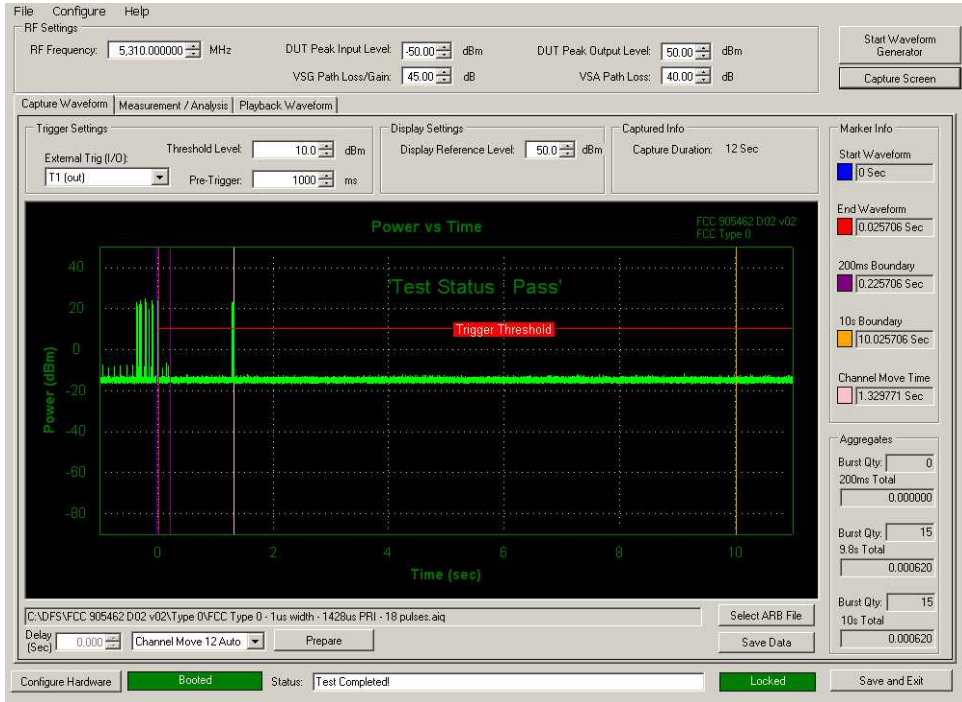
**Figure 5-2. Band 2C Pulse Width**

Channel Loading = Pulse Width / Period = 50 μs / 150 μs = 33%

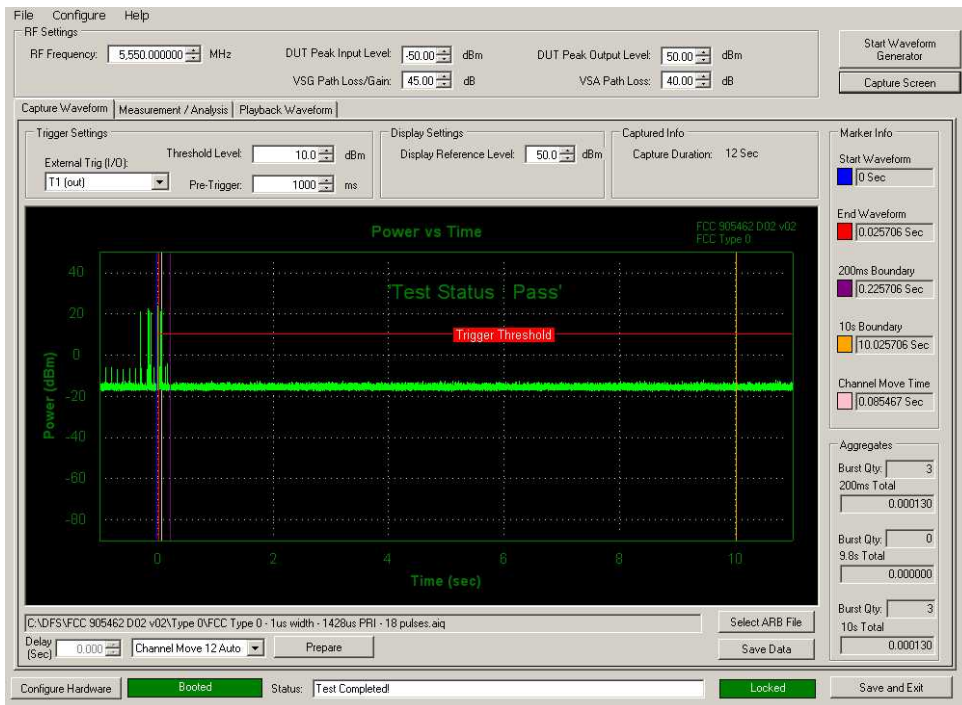
|   |   |                                       |    |                                 |
|---|---|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ710WA                             | PCTEST<br>ENGINEERING LABORATORY, INC.  | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
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### Move Time and Aggregate Time Notes:

1. Trigger Threshold was configured to only capture client pulses. The pulses shown in the plots below have been determined to be from the Master AP.
2. Marker Info and Aggregate time results are shown on the right side of the plots below.



**Figure 5-3. Band 2A Move Time and Aggregate Time**



**Figure 5-4. Band 2C Move Time and Aggregate Time**

|   |   |                               |                                 |
|---|---|-------------------------------|---------------------------------|
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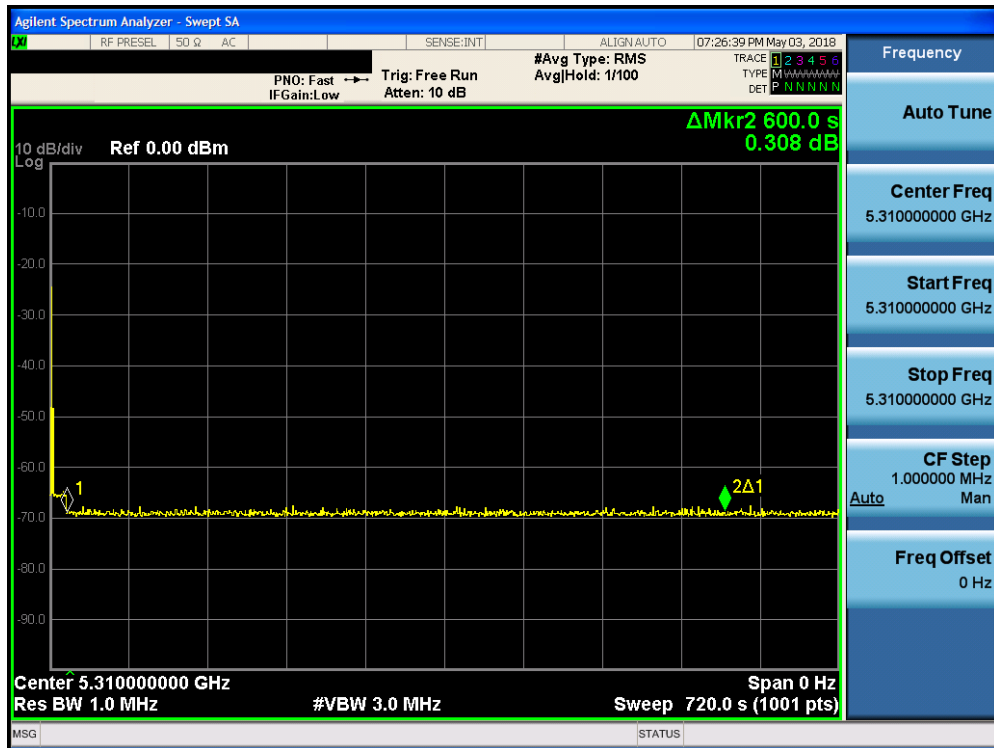


Figure 5-5. Band 2A Client Beacon Test – Monitoring live spectrum – Elapse time 10 minutes

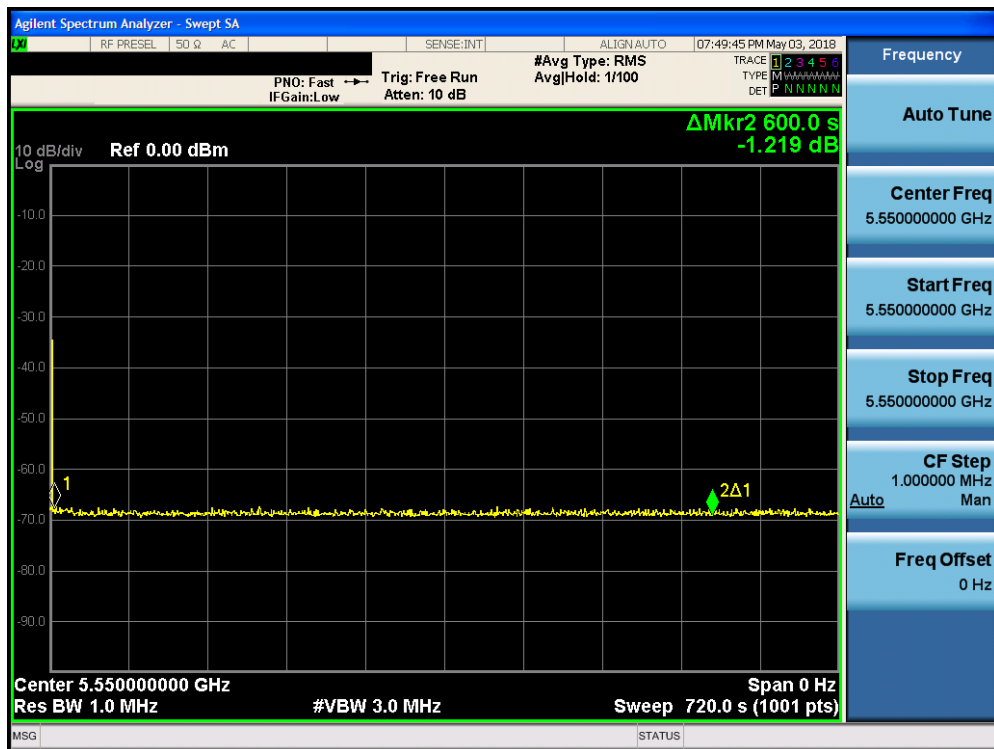


Figure 5-6. Band 2C Client Beacon Test – Monitoring live spectrum – Elapse time 10 minutes

|   |   |                               |                                 |
|---|---|-------------------------------|---------------------------------|
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## 6.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFQ710WA** is in compliance with the DFS requirements for a Client Device without radar detection in accordance with Part 15.407 of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

|  |   |   |   |  |
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