



DFS PORTION of FCC 47 CFR PART 15 SUBPART E  
DFS PORTION of INDUSTRY CANADA RSS-247 ISSUE 2

**CERTIFICATION TEST REPORT**

**FOR**

**WIRELESS THERMOSTAT**

**MODEL NUMBER: RCHT9610WFW2004**

**FCC ID: HS9-THX321WF01  
IC: 573R-THX321WF01**

**REPORT NUMBER: R12480294-D1**

**ISSUE DATE: 2019-01-10**

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NVLAP LAB CODE 200246-0

Revision History

| <u>Rev.</u> | <u>Issue<br/>Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-----------------------|------------------|-------------------|
| V1          | 2019-01-10            | Initial Issue    | --                |

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Honeywell International, Inc.  
2 Corporate Center Drive  
Melville, NY 11747, USA

**EUT DESCRIPTION:** Wireless Thermostat

**MODEL:** RCHT9610WFW2004

**SERIAL NUMBER:** B82CA0196E06

**DATE TESTED:** 2018-12-05 to 2019-01-04

| APPLICABLE STANDARDS                    |              |
|-----------------------------------------|--------------|
| STANDARD                                | TEST RESULTS |
| DFS Portion of CFR 47 Part 15 Subpart E | Complies     |
| INDUSTRY CANADA RSS-247 Issue 2         | Complies     |

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the DFS portion of FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, FCC KDB 789033, KDB 905462 D02 and D03 and RSS-247 Issue 2.

## 3. REFERENCE DOCUMENTS

Measurements of transmitter parameters as referenced in this report are documented in UL LLC report number R12480294-E1

## 4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 2800 Suite B, Perimeter Park Dr., Morrisville, NC 27560.

UL LLC (Morrisville) is accredited by NVLAP, Laboratory Code 200246-0.

## 5. CALIBRATION AND UNCERTAINTY

### 5.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 5.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|-----------|-------------|
| Time      | 0.02%       |

Uncertainty figures are valid to a confidence level of 95%.

## 6. DYNAMIC FREQUENCY SELECTION

### 6.1. OVERVIEW

#### 6.1.1. LIMITS

##### INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

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**Note:** For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

##### FCC

§15.407 (h), FCC KDB 905462 D02 “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION” and KDB 905462 D03 “U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY”.

**Table 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                           |

**Table 2: Applicability of DFS requirements during normal operation**

| Requirement                       | Operational Mode |                      |                   |
|-----------------------------------|------------------|----------------------|-------------------|
|                                   | Master           | Client (without DFS) | Client (with DFS) |
| 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               |

| Additional requirements for devices with multiple bandwidth modes                                                                                                                                                                                                                                                                                                                | Master Device or Client with Radar DFS | Client (without DFS)                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------|
| <i>U-NII Detection Bandwidth and Statistical Performance Check</i>                                                                                                                                                                                                                                                                                                               | All BW modes must be tested            | Not required                                         |
| <i>Channel Move Time and Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                   | Test using widest BW mode available    | Test using the widest BW mode available for the link |
| <i>All other tests</i>                                                                                                                                                                                                                                                                                                                                                           | Any single BW mode                     | Not required                                         |
| <b>Note:</b> 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 all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks. |                                        |                                                      |

**Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Value<br>(see notes) |
| E.I.R.P. $\geq$ 200 mill watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64 dBm              |
| E.I.R.P. $<$ 200 mill watt and<br>power spectral density $<$ 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -62 dBm              |
| E.I.R.P. $<$ 200 mill watt that do not meet power spectral<br>density 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>Note 3:</b> E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.</p> |                      |

**Table 4: DFS Response requirement values**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Value                                                                                                       |
| <i>Non-occupancy period</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30 minutes                                                                                                  |
| <i>Channel Availability Check Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 seconds                                                                                                  |
| <i>Channel Move Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 seconds (See Note 1)                                                                                     |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200 milliseconds +<br>approx. 60 milliseconds<br>over remaining 10 second<br>period.<br>(See Notes 1 and 2) |
| <i>U-NII Detection Bandwidth</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimum 100% of the U-<br>NII 99% transmission<br>power bandwidth.<br>(See Note 3)                          |
| <p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> 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 <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p> |                                                                                                             |



**Table 5 – Short Pulse Radar Test Waveforms**

| Radar Type                                                                                                                                                        | Pulse Width (usec) | PRI (usec)                                                                                                                                                    | Pulses                                                                      | Minimum Percentage of Successful Detection | Minimum 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 table 5a                                                                     | Roundup:<br>$\{(1/360) \times (19 \times 10^6 \text{ PRI}_{\text{usec}})\}$ | 60%                                        | 30             |
|                                                                                                                                                                   |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 usec. With a minimum increment of 1 usec, 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            |
| <b>Note 1:</b> Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel Move Time</i> , and <i>Channel Closing Time</i> tests. |                    |                                                                                                                                                               |                                                                             |                                            |                |

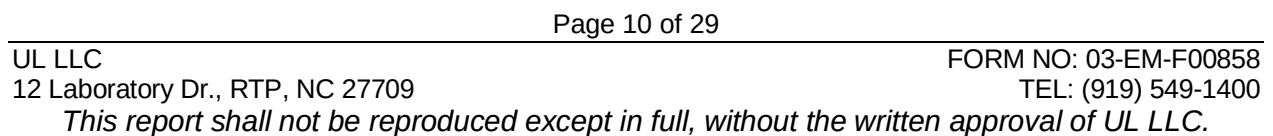
**Table 6 – Long Pulse Radar Test Signal**

| Radar Waveform Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Trials |
|---------------------|--------------------|-------------------|------------|------------------|------------------|--------------------------------------------|----------------|
| 5                   | 50-100             | 5-20              | 1000-2000  | 1-3              | 8-20             | 80%                                        | 30             |

**Table 7 – Frequency Hopping Radar Test Signal**

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

### RADIATED METHOD SYSTEM BLOCK DIAGRAM



## **SYSTEM OVERVIEW**

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from  $F_L$  to  $F_H$  for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

## **SYSTEM CALIBRATION**

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

### **ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL**

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. Traffic that meets or exceeds the minimum loading requirement is streamed from the Master device to the Slave Device. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

### **TEST AND MEASUREMENT EQUIPMENT**

The following test and measurement equipment was utilized for the DFS tests documented in this report:

| TEST EQUIPMENT LIST         |              |        |        |          |
|-----------------------------|--------------|--------|--------|----------|
| Description                 | Manufacturer | Model  | ID No. | Cal Due  |
| PXA Signal Analyzer         | Keysight     | N9030A | SA0021 | 04/30/19 |
| MXG Vector Signal Generator | Agilent      | N5182B | SIG003 | 05/07/19 |

### **6.1.3. TEST AND MEASUREMENT SOFTWARE**

The following test and measurement software was utilized for the tests documented in this report:

#### **Slave Device Testing**

| TEST SOFTWARE LIST |         |                                            |
|--------------------|---------|--------------------------------------------|
| Name               | Version | Test / Function                            |
| Aggregate Time-PXA | 3.0     | Channel Loading and Aggregate Closing Time |
| PXA Read           | 3.0.0.9 | Signal Generator Screen Capture Utility    |
| SGXProject.exe     | 1.7     | Radar Waveform Generation and Download     |

### **6.1.4. TEST ROOM ENVIRONMENT**

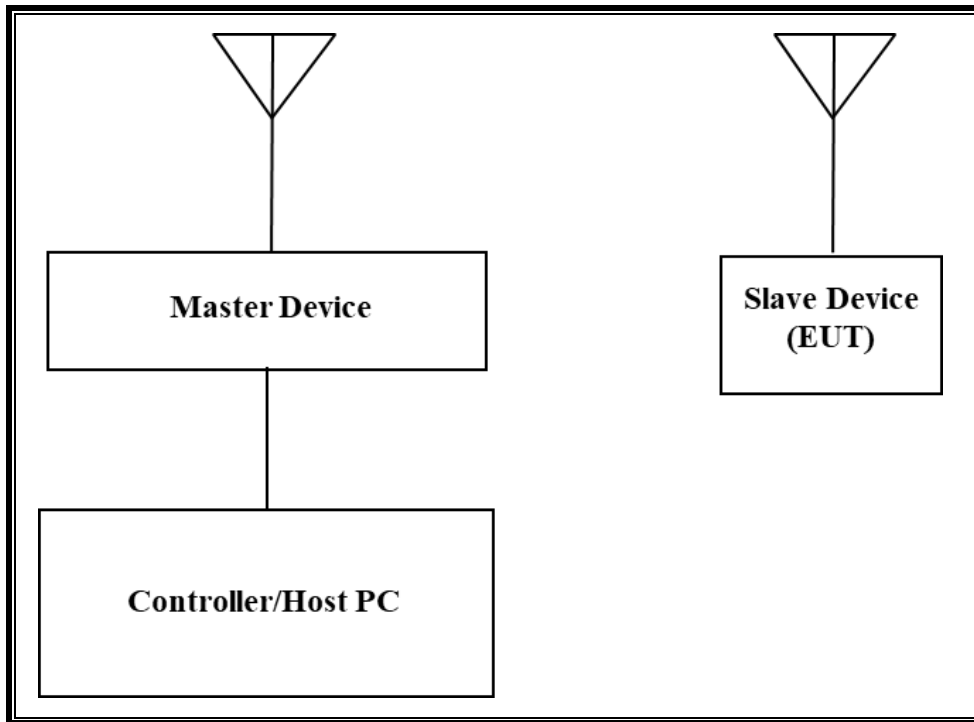
The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

#### **ENVIRONMENT CONDITION**

| Parameter   | Value   |
|-------------|---------|
| Temperature | 25.9 °C |
| Humidity    | 27.5 %  |

### 6.1.5. SETUP OF EUT

#### RADIATED METHOD EUT TEST SETUP



#### SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

| PERIPHERAL SUPPORT EQUIPMENT LIST                 |              |                   |                        |           |
|---------------------------------------------------|--------------|-------------------|------------------------|-----------|
| Description                                       | Manufacturer | Model             | Serial Number          | FCC ID    |
| 802.11ac Dual Band Wireless Access Point (Master) | Cisco        | AIR-CAP3702E-A-K9 | FTX1827R5FF            | LDK102087 |
| P.O.E. Injector                                   | Cisco        | DPSN-35FBA        | DCA183510NA            | N/A       |
| Notebook PC (Host/Controller)                     | Lenovo       | T440 20B6-002AUS  | PC-041B0F 15/03        | TP0050A   |
| AC Adapter (Host/Controller PC)                   | Lenovo       | ADLX90NLC2A       | 11S45N0247Z1ZS9B4BVJ0H | N/A       |
| AC Adapter (EUT)                                  | CUI INC.     | 48A-24-500        | EPA240050-S/T-SZ       | N/A       |

### **6.1.6. DESCRIPTION OF EUT**

The EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 14.77 dBm EIRP in the 5250-5350 MHz band and 14.50 dBm EIRP in the 5470-5725 MHz band.

The highest gain antenna assembly utilized with the EUT has a gain of 0.94 dBi in the 5250-5350 MHz band and 0.94 dBi in the 5470-5725 MHz band. The lowest gain antenna assembly utilized with the EUT has a gain of -0.10 dBi in the 5250-5350 MHz band and -0.10 dBi in the 5470-5725 MHz band.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is  $-64 + 1 = -63$  dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the Master Device to the Slave Device using 10 fping sessions.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11a/n architecture. Two nominal channel bandwidths are implemented: 20 MHz and 40 MHz.

The software installed in the EUT is Software is 'XTR Software' revision 'v00.03.07.00'.

The software installed in the access point is ap3g2-k9w7-xx. 153-3.JAB version 15.3(3)JAB.

### **UNIFORM CHANNEL SPREADING**

This function is not required per KDB 905462.

This requirement is not applicable to Slave Devices.

## **OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS**

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 4 dBi.

The rated output power of the Master unit is  $> 23\text{dBm}$  (EIRP). Therefore the required interference threshold level is  $-64\text{ dBm}$ . After correction for procedural adjustments, the required radiated threshold at the antenna port is  $-64 + 1 = -63\text{ dBm}$ .

The calibrated radiated DFS Detection Threshold level is set to  $-64\text{ dBm}$ . The tested level is lower than the required level hence it provides a margin to the limit.

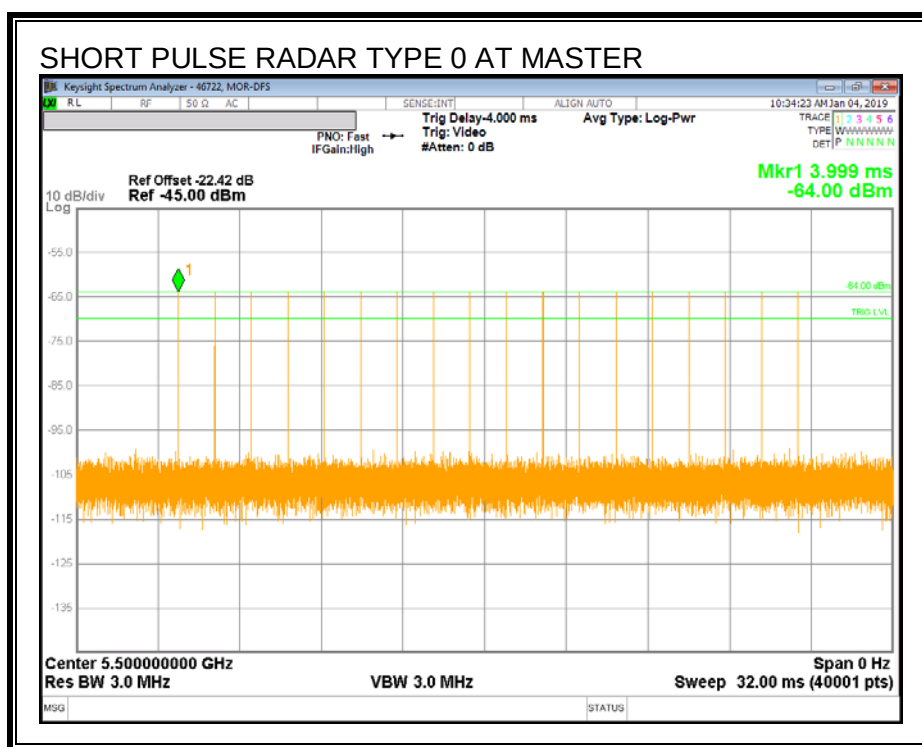
## 6.2. RESULTS FOR 20 MHz BANDWIDTH

### 6.2.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

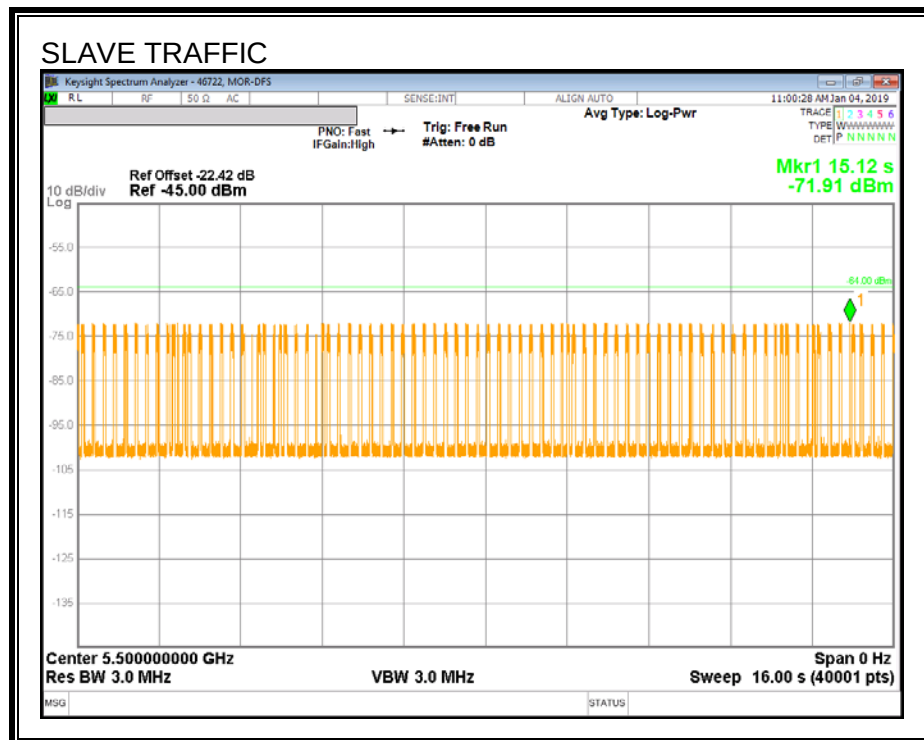
### 6.2.2. RADAR WAVEFORM AND TRAFFIC

#### RADAR WAVEFORM

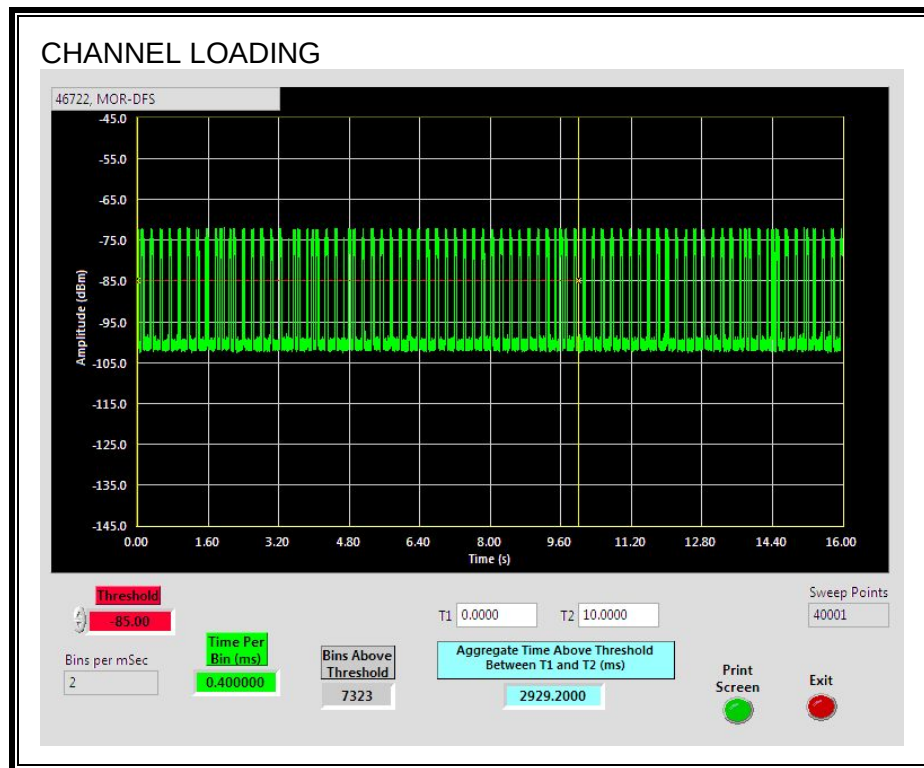




**TRAFFIC**



## CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 29.29%

### 6.2.3. OVERLAPPING CHANNEL TESTS

#### RESULTS

These tests are not applicable.

### 6.2.4. MOVE AND CLOSING TIME

#### REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =  
(Number of analyzer bins showing transmission) \* (dwell time per bin)

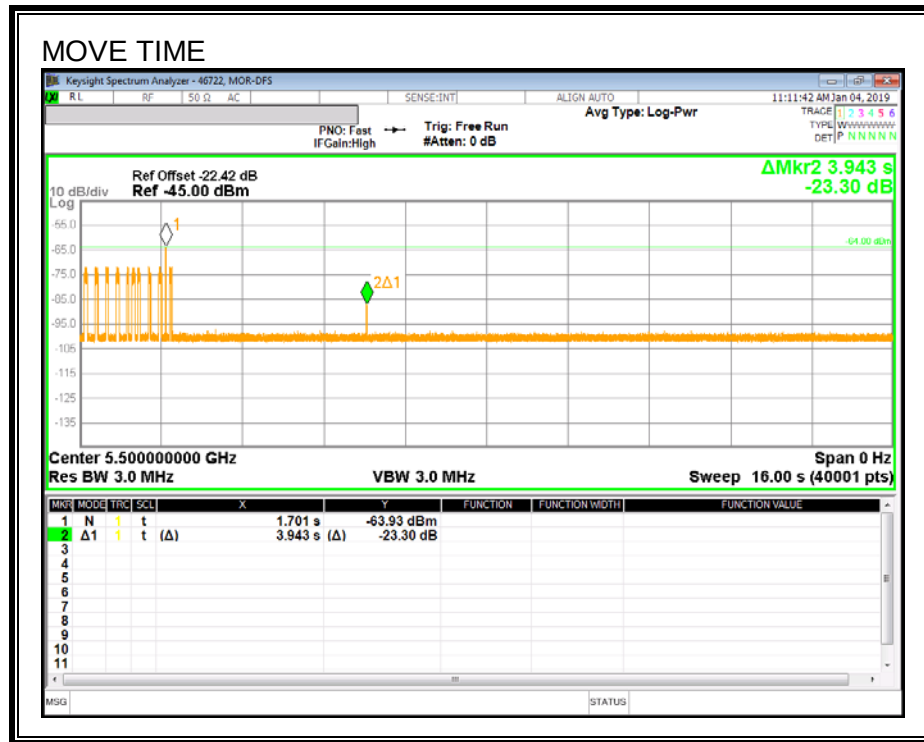
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

#### RESULTS

| Channel Move Time<br>(sec) | Limit<br>(sec) |
|----------------------------|----------------|
| 3.943                      | 10             |

| Aggregate Channel Closing Transmission Time<br>(msec) | Limit<br>(msec) |
|-------------------------------------------------------|-----------------|
| 1.6                                                   | 60              |

## MOVE TIME



## AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



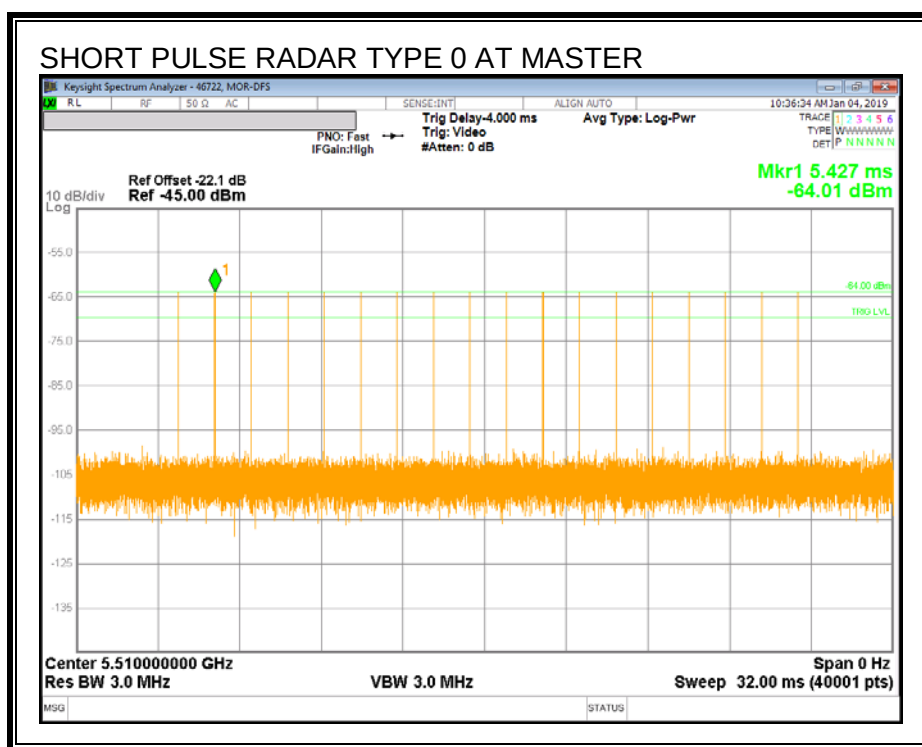
## 6.3. RESULTS FOR 40 MHz BANDWIDTH

### 6.3.1. TEST CHANNEL

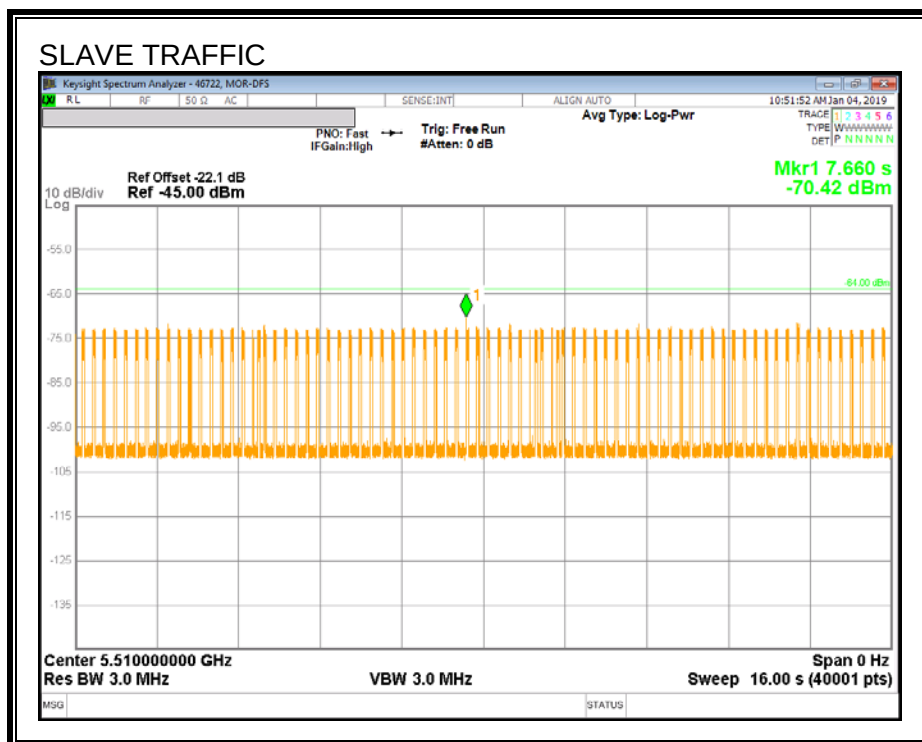
All tests were performed at a channel center frequency of 5510 MHz.

### 6.3.2. RADAR WAVEFORM AND TRAFFIC

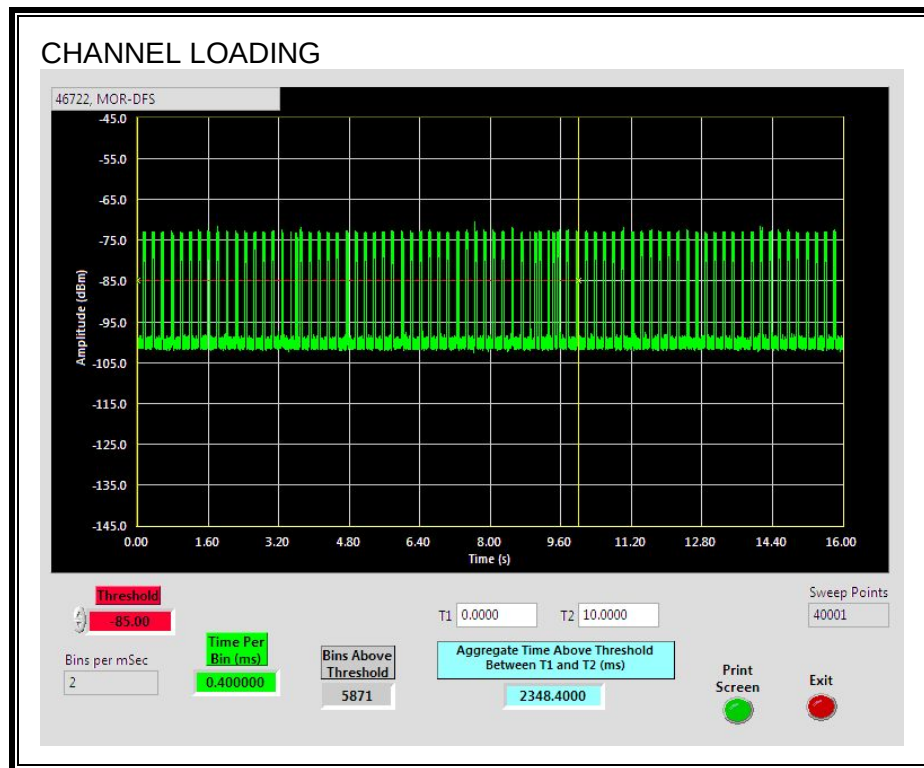
#### RADAR WAVEFORM



**TRAFFIC**



## CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 23.48%



### 6.3.3. OVERLAPPING CHANNEL TESTS

#### RESULTS

These tests are not applicable.

### 6.3.4. MOVE AND CLOSING TIME

#### REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =  
(Number of analyzer bins showing transmission) \* (dwell time per bin)

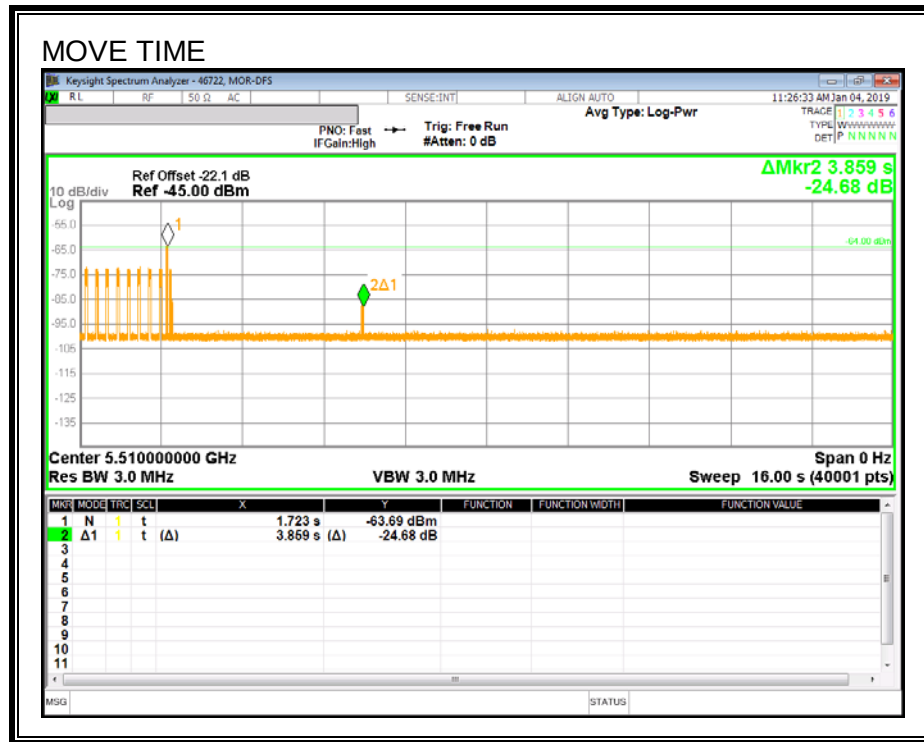
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

#### RESULTS

| Channel Move Time<br>(sec) | Limit<br>(sec) |
|----------------------------|----------------|
| 3.859                      | 10             |

| Aggregate Channel Closing Transmission Time<br>(msec) | Limit<br>(msec) |
|-------------------------------------------------------|-----------------|
| 2.4                                                   | 60              |

## MOVE TIME



## AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

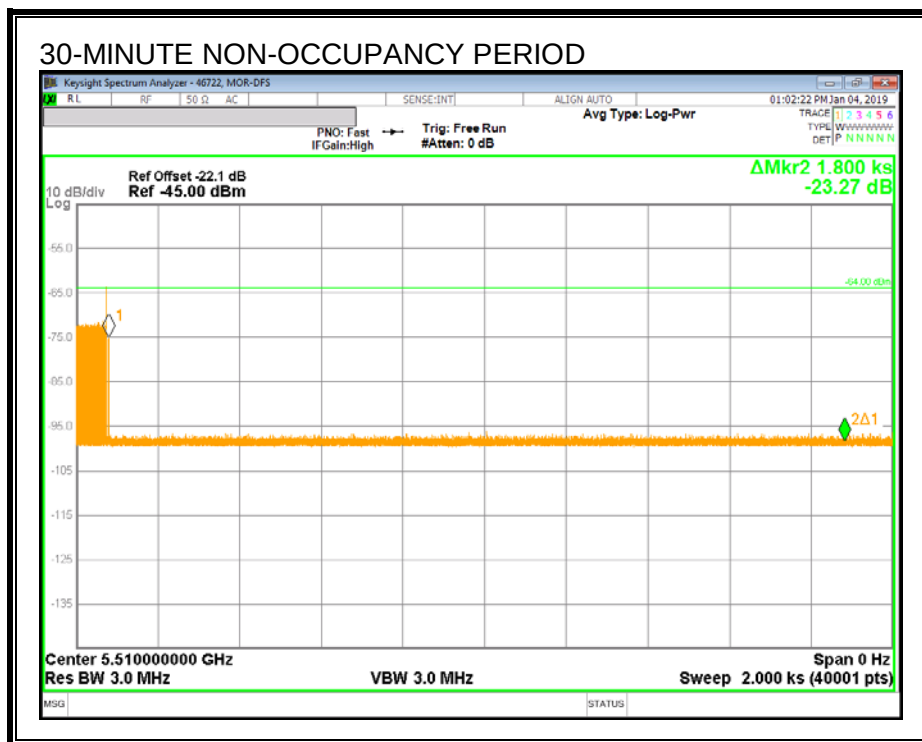
Only intermittent transmissions were observed during the aggregate monitoring period.



### 6.3.5. 30-MINUTE NON-OCCUPANCY PERIOD

#### RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.



## 7. SETUP PHOTOS

Please refer to R12480294-EP1 for setup photos

## END OF TEST REPORT