



#### **TEST REPORT**

| Applicant | Lenovo (Shanghai) Electronics Technology Co., Ltd.  |
|-----------|---|
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| Manufacturer or Supplier            | Lenovo PC HK Limited   |
|-------------------------------------|--|
| Address                             | 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R. China |
| Product Name                        | Portable Tablet Computer   |
| Brand Name                          | Lenovo   |
| Model                               | Lenovo TB-7306F  |
| Additional Model & Model Difference | N/A  |
| FCC ID                              | O57TB7306F   |
| Date of tests                       | Jan. 06, 2021 ~ Jan. 22, 2021  |

the tests have been carried out according to the requirements of the following standard:

FCC 06-96

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

#### CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

| Tested by Breeze Jiang<br>Senior Project Engineer / EMC Department | Approved by Glyn He<br>Assistant Manager / EMC Department |
|--|---|
| greere   | A   |

Date: Jan. 28, 2021

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Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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### **TABLE OF CONTENTS**

| R | ELE/ | ASE (   | CONTROL RECORD  | 3  |
|---|------|---------|---|----|
| 1 | Е    | UT II   | NFORMATION  | 4  |
|   | 1.1  | OP      | ERATING FREQUENCY BANDS AND MODE OF EUT                       | 4  |
|   | 1.2  | EU      | Γ SOFTWARE AND FIRMWARE VERSION                               | 4  |
|   | 1.3  | DES     | SCRIPTION OF AVAILABLE ANTENNAS TO THE EUT                    | 4  |
|   | 1.4  | TRA     | ANSMIT POWER CONTROL (TPC)                                    | 5  |
|   | 1.5  | STA     | ATEMENT OF MAUNFACTURER                                       | 5  |
| 2 | U    | J-NII I | DFS RULE REQUIREMENTS   | 6  |
|   | 2.1  | WC      | RKING MODES AND REQUIRED TEST ITEMS                           | 6  |
|   | 2.2  | TES     | ST LIMITS AND RADAR SIGNAL PARAMETERS                         | 7  |
| 3 | Т    | EST     | & SUPPORT EQUIPMENT LIST                                      | 10 |
|   | 3.1  | TES     | ST INSTRUMENTS  | 10 |
|   | 3.2  | DES     | SCRIPTION OF SUPPORT UNITS                                    | 10 |
| 4 | Т    | EST     | PROCEDURE   | 11 |
|   | 4.1  | BVA     | ADT DFS MEASUREMENT SYSTEM:                                   | 11 |
|   | 4.2  | CAI     | LIBRATION OF DFS DETECTION THRESHOLD LEVEL:                   | 12 |
|   | 4.3  | DE      | VIATION FROM TEST STANDARD                                    | 13 |
|   | 4.4  | CO      | NDUCTED TEST SETUP CONFIGURATION                              | 13 |
|   | 4    | .4.1    | CLIENT WITHOUT RADAR DETECTION MODE                           | 13 |
| 5 | Т    | EST     | RESULTS   | 14 |
|   | 5.1  | SUI     | MMARY OF TEST RESULTS   | 14 |
|   | 5.2  | DE      | TAILED TEST RESULTS   | 14 |
|   | 5    | .2.1    | TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION |    |
|   |      |         | MODE  | 14 |
|   | 5    | .2.2    | DFS DETECTION THRESHOLD                                       | 15 |
|   | 5    | .2.3    | CHANNEL LOADING   | 16 |
|   | 5    | .2.4    | CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME            | 17 |
|   | 5    | .2.5    | NON- OCCUPANCY PERIOD   | 18 |
|   | 5    | .2.6    | NON-ASSOCIATED TEST   | 20 |
|   |      |         | NON- CO-CHANNEL TEST  |    |
| 6 | P    | тон     | OGRAPHS OF THE TEST CONFIGURATION                             | 21 |
| 7 | A    | PPE     | NDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES      |    |
|   |      | то т    | HE EUT BY THE LAB   | 22 |

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### **RELEASE CONTROL RECORD**

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED   |
|---------------|-------------------|---------------|
| RF2101WDG0083 | Original release. | Jan. 28, 2021 |

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#### 1 EUT INFORMATION

#### 1.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

#### OPERATING FREQUENCY BANDS AND MODE OF EUT

| OPERATIONAL MODE                                   | OPERATING FREQUENCY RANGE |              |  |
|--|---------------------------|--------------|--|
| OPERATIONAL MODE                                   | 5250~5350MHz              | 5470~5725MHz |  |
| Client without radar detection and ad hoc function | V                         | V            |  |

#### 1.2 EUT SOFTWARE AND FIRMWARE VERSION

#### THE EUT SOFTWARE/FIRMWARE VERSION

| NO.                      | PRODUCT MODEL NO.        |                 | SOFTWARE/FIRMWARE VERSION |  |
|--------------------------|--------------------------|-----------------|---------------------------|--|
| Portable Tablet Computer |                          | Longyo TP 7206E | TB-7306F_RF01_201229/     |  |
| '                        | Fortable Tablet Computer | Lenovo TB-7306F | Lenovo Tablet TB-7306F    |  |

#### 1.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

#### **ANTENNA LIST**

| ANT. | BRAND | MODEL | CONNECTOR<br>TYPE | ANT<br>TYPE | FREQUENCY<br>RANGE<br>(MHZ TO MHZ) | NET<br>GAIN(dBi) | CABLE<br>LOSS(dBi) |
|------|-------|-------|-------------------|-------------|------------------------------------|------------------|--------------------|
| 1    | N/A   | N/A   | N/A               | PIFA        | 5250 - 5350                        | -3.6             | 0                  |
|      | 14/74 | 13/73 | 14/74             | 1 11 /4     | 5470 - 5725                        | -3.7             | 0                  |

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#### 1.4 TRANSMIT POWER CONTROL (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an EIRP of less than 500 mW.

Maximum EIRP of this device is less than 500mW which less than 500mW, therefore it's not require TPC function.

#### 1.5 STATEMENT OF MAUNFACTURER

This device (Client) is without radar detection, then the manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. And the device doesn't have Ad Hoc mode on DFS frequency band.



#### **U-NII DFS RULE REQUIREMENTS** 2

#### 2.1 **WORKING MODES AND REQUIRED TEST ITEMS**

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See the applicability of DFS requirements for each of the operational modes.

#### APPLICABILITY OF DFS REQUIREMENTS PRIOR TO USE A CHANNEL

|                                 | OPERATIONAL MODE |                                      |                                   |  |
|---------------------------------|------------------|--------------------------------------|-----------------------------------|--|
| REQUIREMENT                     | MASTER           | CLIENT WITHOUT<br>RADAR<br>DETECTION | CLIENT WITH<br>RADAR<br>DETECTION |  |
| Non-Occupancy Period            | ✓                | ✓                                    | ✓                                 |  |
| DFS Detection Threshold         | ✓                | Not required                         | ✓                                 |  |
| Channel Availability Check Time | ✓                | Not required                         | Not required                      |  |
| Uniform Spreading               | ✓                | Not required                         | Not required                      |  |
| U-NII Detection Bandwidth       | ✓                | Not required                         | ✓                                 |  |

#### APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

|                                   | OPERATIONAL MODE |                                      |                                   |  |
|-----------------------------------|------------------|--------------------------------------|-----------------------------------|--|
| REQUIREMENT                       | MASTER           | CLIENT WITHOUT<br>RADAR<br>DETECTION | CLIENT WITH<br>RADAR<br>DETECTION |  |
| DFS Detection Threshold           | ✓                | Not required                         | ✓                                 |  |
| Channel Closing Transmission Time | ✓                | ✓                                    | ✓                                 |  |
| Channel Move Time                 | ✓                | ✓                                    | ✓                                 |  |
| U-NII Detection Bandwidth         | ✓                | Not required                         | <b>√</b>                          |  |



#### 2.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

#### **DETECTION THRESHOLD VALUES**

## DFS DETECTION THRESHOLDS FOR MASTER DEVICES AND CLIENT DEVICES WITH RADAR DETECTION

| MAXIMUM TRANSMIT POWER | VALUE (SEE Note 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.

**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.

#### 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. |
| U-NII Detection Bandwidth         | 100% of the UNII transmission power bandwidth.<br>See Note 3.  |

**Note 1:** The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

**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.

**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.

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#### **PARAMETERS OF DFS TEST SIGNALS**

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

#### Short Pulse Radar Test Waveforms

| Radar<br>Type | Pulse<br>Width<br>(µsec) | PRI<br>(µsec)  | Number<br>of Pulses   | Minimum Percentage of Successful Detection | Minimum<br>Number of<br>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  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 | Roundup $ \begin{pmatrix} 1\\360 \end{pmatrix} \cdot \begin{pmatrix} 19 \cdot 10^{6}\\PRI_sec \end{pmatrix} $ | 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                             |
|               | Aggrega                  | 80%  | 120   |  |                                |

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

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#### LONG PULSE RADAR TEST WAVEFORM

| RADAR<br>TYPE | PULSE<br>WIDTH<br>(µsec) | CHIRP<br>WIDTH<br>(MHz) |           | 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                    | 1000-2000 | 1-3                              | 8-20                | 80%   | 30                             |

#### FREQUENCY HOPPING RADAR TEST WAVEFORM

| RADAR<br>TYPE | PULSE<br>WIDTH<br>(µsec) | PRI<br>(µsec) | PULSES<br>PER HOP | HOPPING<br>RATE<br>(kHz) | HOPPING<br>SEQUENCE<br>LENGTH<br>(msec) | MINIMUM<br>PERCENTAGE OF<br>SUCCESSFUL<br>DETECTION | MINIMUM<br>NUMBER OF<br>TRIALS |
|---------------|--------------------------|---------------|-------------------|--------------------------|---|---|--------------------------------|
| 6             | 1                        | 333           | 9                 | 0.333                    | 300                                     | 70%   | 30                             |

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#### 3 TEST & SUPPORT EQUIPMENT LIST

#### 3.1 TEST INSTRUMENTS

TEST INSTRUMENTS LIST.

| DESCRIPTION & MANUFACTURER       | MODEL NO. | BRAND      | CALIBRATED UNTIL |
|----------------------------------|-----------|------------|------------------|
| Spectrum Analyzer                | N9020A    | MY55400499 | May 17, 21       |
| R&S Spectrum                     | FSV7      | R&S        | May 13, 21       |
| MXG-B RF Vector Signal Generator | N5182B    | MY56200288 | Sep. 04,21       |
| Signal generator                 | 8645A     | Agilent    | NA               |

#### 3.2 DESCRIPTION OF SUPPORT UNITS

SUPPORT UNIT INFORMATION.

| NO. | PRODUCT       | BRAND   | MODEL NO.   | FCC ID         | SOFTWARE/FIR<br>MWARE<br>VERSION |
|-----|---------------|---------|-------------|----------------|----------------------------------|
| 1   | Router AC3200 | LINKSYS | WRT-3200ACM | Q87-WRT3200ACM | 1.0.0.174361                     |

**NOTE:** This device was functioned as a Master Slave device during the DFS test.

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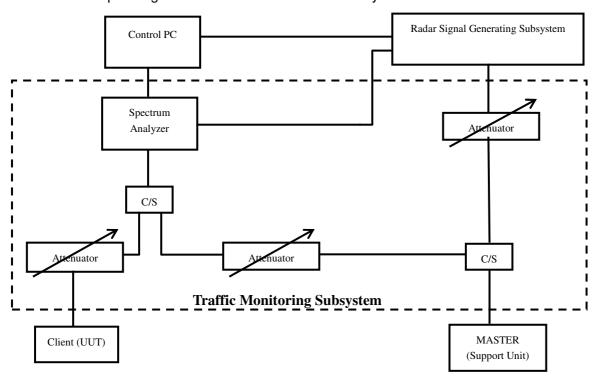


#### 4 TEST PROCEDURE

#### 4.1 BVADT DFS MEASUREMENT SYSTEM:

A complete DFS Measurement System consists of Radar signal generate system to generating the radar waveforms. The traffic monitoring system is specified to the type of unit under test (UUT).

Conducted setup configuration of DFS Measurement System



#### **Channel Loading**

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

| a) | The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode. |   |
|----|---|---|
| b) | Software to ping the client is permitted to simulate data transfer but must have random ping intervals.   |   |
| c) | Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.  | ✓ |
| d) | Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.                  |   |

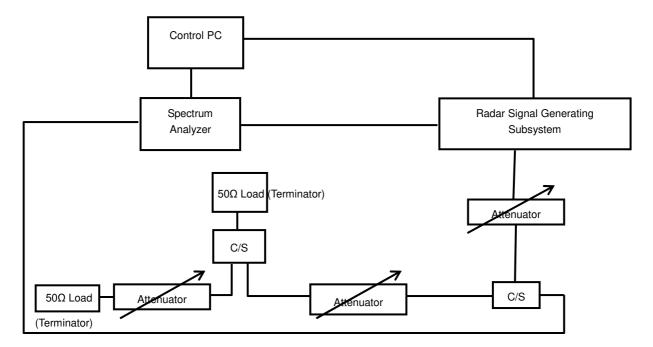
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#### 4.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5300MHz and 5500 MHz in 20MHz Bandwidth, 5310MHz and 5510MHz in 40MHz Bandwidth. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Master maximum transmit power was more than 200mW. The Master antenna gain is 3dBi and required detection threshold is -61dBm (=-64+3)dBm.

Conducted setup configuration of calibration of DFS detection threshold level:



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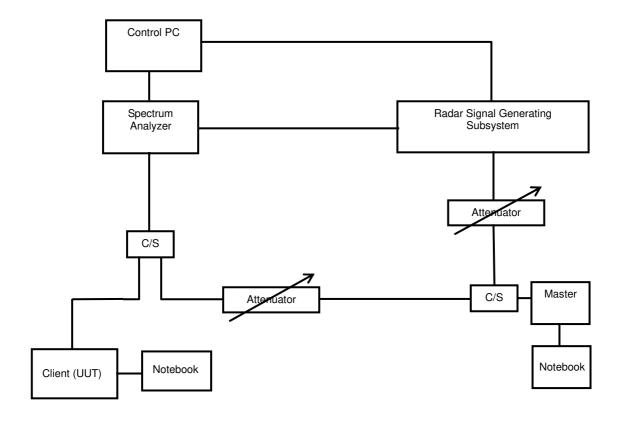


#### 4.3 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4 CONDUCTED TEST SETUP CONFIGURATION

#### 4.4.1 CLIENT WITHOUT RADAR DETECTION MODE



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

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#### **5 TEST RESULTS**

#### 5.1 SUMMARY OF TEST RESULTS

| CLAUSE | TEST PARAMETER                    | REMARKS        | PASS/FAIL |
|--------|-----------------------------------|----------------|-----------|
| 15.407 | DFS Detection Threshold           | Not Applicable | N/A       |
| 15.407 | Channel Availability Check Time   | Not Applicable | N/A       |
| 15.407 | Channel Move Time                 | Applicable     | Pass      |
| 15.407 | Channel Closing Transmission Time | Applicable     | Pass      |
| 15.407 | Non- Occupancy Period             | Applicable     | Pass      |
| 15.407 | Uniform Spreading                 | Not Applicable | N/A       |
| 15.407 | U-NII Detection Bandwidth         | Not Applicable | N/A       |
| 15.407 | Non-associated test               | Applicable     | Pass      |
| 15.407 | Non-Co-Channel test               | Applicable     | Pass      |

Note: Therefore test procedure were completed by KDB 905462

#### 5.2 DETAILED TEST RESULTS

## 5.2.1 TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE

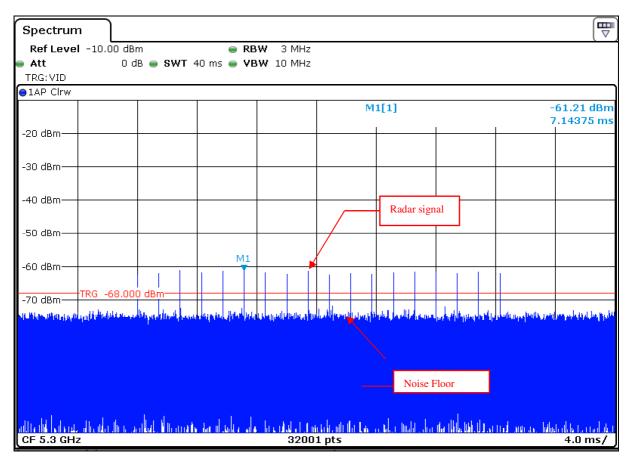
The radar test signals are injected into the Master Device.

This test was investigated for different bandwidth (20MHz, 40MHz). The following plots was done on 40MHz as a representative



#### 5.2.2 DFS DETECTION THRESHOLD

The Required detection threshold is -61.00dBm = -64 + 3dBi. The conducted radar burst level is set to -61.21dBm.



Radar Signal (Type 0)

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#### 5.2.3 CHANNEL LOADING

The measured channel is 5300MHz and 5500MHz in 20MHz Bandwidth and 5270MHz and 5510MHz in 40MHz Bandwidth. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) with radar signal, measured the channel shutdown. The slave transmitted the test data to master, the transmitted duty cycle is 17.609%.



**NOTE**: T1 denotes the start of duty cycle period is 0th second. T2 denotes the end of duty cycle period is 1th second. T2 - T1 = 1 seconds. Duty Cycle = 17.609%.

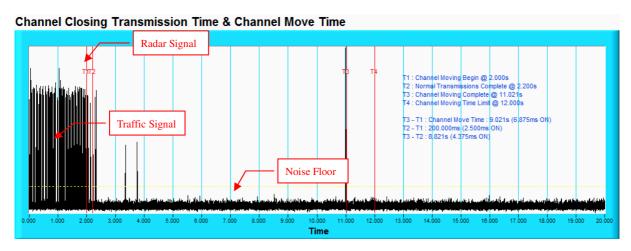
Note: Traffic signal: from slave transmit to master.

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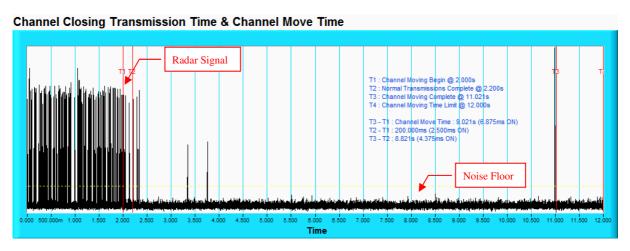


#### 5.2.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

#### Radar Signal 0



**NOTE**: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



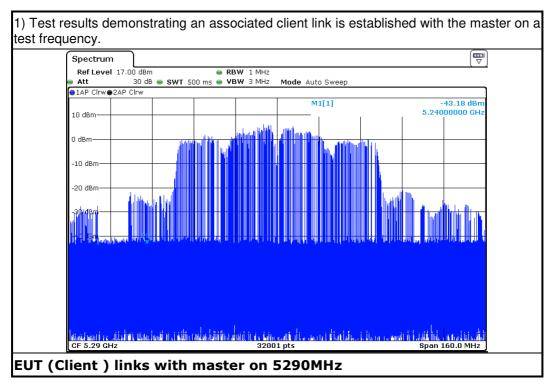
NOTE: Zoom in of the first 3500ms after radar signal applied.

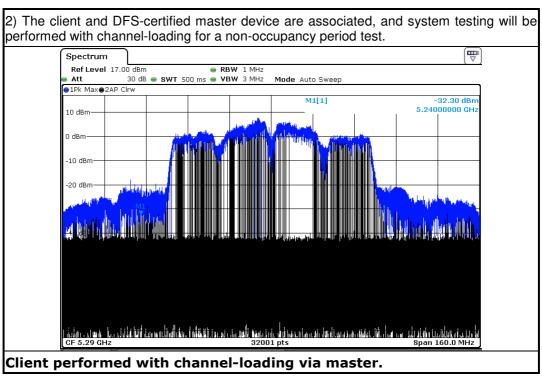
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#### 5.2.5 NON-OCCUPANCY PERIOD

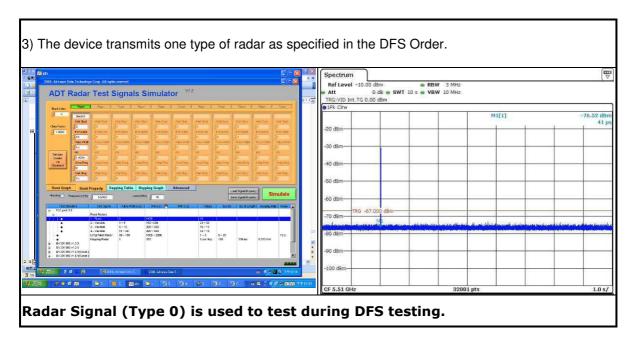
#### **ASSOCIATED TEST**





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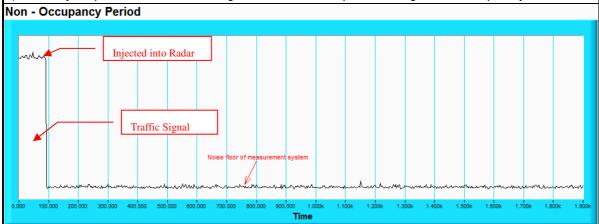




4) The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes:

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;

5) An analyzer plot that contains a single 30-minute sweep on the original test frequency.



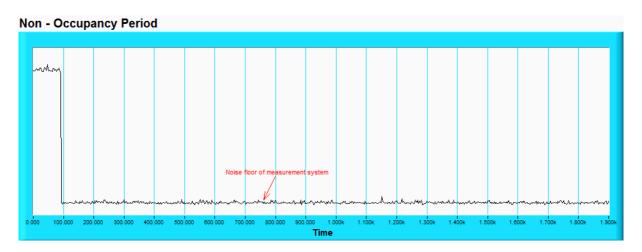
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#### 5.2.6 NON-ASSOCIATED TEST

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.



#### 5.2.7 NON- CO-CHANNEL TEST

The UUT was investigated after radar was detected the channel and made sure no co-channel operation with radars.

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#### 6 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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# 7 APPENDIX A - Modifications recorders for engineering changes to the EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---

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