

# FCC TEST REPORT

## (DFS)

**Report No.:** RF160520W001-8

**FCC ID:** O57PB2650Y

**Test Model:** Lenovo PB2-650Y

**Received Date:** May 20, 2016

**Test Date:** May 21, 2016 ~ Jun. 13, 2016

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### Release Control Record

Issue No.	Description	Date Issued
RF160520W001-8	Original release	Jun. 14, 2016

# 1 CERTIFICATION

**Product:** Lenovo Mobile Phone

**Brand:** Lenovo

**Test Model:** Lenovo PB2-650Y

**Sample Status:** Identical Prototype


**Applicant:** Lenovo(Shanghai) Electronics Technology Co., Ltd.

**Test Date:** May 21, 2016 ~ Jun. 13, 2016

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** Jun. 14, 2016  
Amyee Qian / Engineer

**Approved by :**  , **Date:** Jun. 14, 2016  
William Chung / Manager

## 2 EUT INFORMATION

### 2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

TABLE 1: OPERATING FREQUENCY BANDS AND MODE OF EUT

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

### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

TABLE 2: THE EUT SOFTWARE/FIRMWARE VERSION

PLATFORM	NO.	PRODUCT	MODEL NO.	SOFTWARE/FIRMWARE VERSION
Android	1	Lenovo Mobile Phone	Lenovo PB2-650Y	PB2-650Y_160517 LenovoPad PB2-650Y

### 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

TABLE 3: ANTENNA LIST

ANT	BRAND	MODEL	CONNECTOR TYPE	ANT TYPE	FREQUENCY RANGE (MHZ TO MHZ)	NET GAIN(dBi)	CABLE LOSS(dBi)
1	N/A	N/A	N/A	PIFA	5250 - 5350	-3.9	0
					5470 - 5725	-4.8	0

## 2.4 EUT MAXIMUM CONDUCTED POWER

### IEEE 802.11a

ANT SET.	FREQUENCY BAND (MHz)	AVERAGE POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	13.23	21.038
1	5470~5725	13.14	20.606

### IEEE 802.11n HT20

ANT SET.	FREQUENCY BAND (MHz)	AVERAGE POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	12.32	17.061
1	5470~5725	12.17	16.482

### IEEE 802.11n HT40

ANT SET.	FREQUENCY BAND (MHz)	AVERAGE POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	12.12	16.293
1	5470~5725	12.17	16.482

## 2.5 EUT MAXIMUM EIRP POWER

### IEEE 802.11a

ANT SET.	FREQUENCY BAND (MHz)	AVERAGE POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	9.33	8.570
1	5470~5725	8.34	6.823

### IEEE 802.11n HT20

ANT SET.	FREQUENCY BAND (MHz)	AVERAGE POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	8.42	6.950
1	5470~5725	7.37	5.458

### IEEE 802.11n HT40

ANT SET.	FREQUENCY BAND (MHz)	AVERAGE POWER	
		OUTPUT POWER(dBm)	OUTPUT POWER(mW)
1	5250~5350	8.22	6.637
1	5470~5725	7.37	5.458



## **2.6 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 30dBm. A TPC mechanism is not required for systems with an EIRP of less than 500mW.

Maximum EIRP of this device is 8.570mW which less than 500mW, therefore it's not require TPC function.

## **2.7 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.

### 3 U-NII DFS RULE REQUIREMENTS

#### 3.1 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 tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

TABLE 6: APPLICABILITY OF DFS REQUIREMENTS PRIOR TO USE A CHANNEL

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

TABLE 7: APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

REQUIREMENT	OPERATIONAL MODE		
	MASTER	CLIENT WITHOUT RADAR DETECTION	CLIENT WITH RADAR DETECTION
DFS Detection Threshold	N/A	Not required	N/A
Channel Closing Transmission Time	N/A	✓	N/A
Channel Move Time	N/A	✓	N/A
U-NII Detection Bandwidth	N/A	Not required	N/A

## 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

### DETECTION THRESHOLD VALUES

TABLE 8: 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.

TABLE 9: DFS RESPONSE REQUIREMENT VALUES

PARAMETER	VALUE
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds 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. 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.

## 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.

TABLE 10: SHORT PULSE 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	<p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p>	$\text{Roundup} \left( \left\{ \frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\} \right)$	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
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

TABLE 11: LONG PULSE RADAR TEST WAVEFORM

RADAR TYPE	PULSE WIDTH (μsec)	CHIRP WIDTH (MHz)	PRI (μsec)	NUMBER OF PULSES PER BURST	NUMBER OF BURSTS	MINIMUM PERCENTAGE OF SUCCESSFUL DETECTION	MINIMUM NUMBER OF TRIALS
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

TABLE 12: FREQUENCY HOPPING RADAR TEST WAVEFORM

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

## 4 TEST & SUPPORT EQUIPMENT LIST

### 4.1 TEST INSTRUMENTS

TABLE 1: TEST INSTRUMENTS LIST.

DESCRIPTION & MANUFACTURER	MODEL NO.	BRAND	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum analyzer	ESR	R&S	2016/02/02	2017/02/01
Signal generator	8645A	Agilent	2015/08/05	2016/08/04

### 4.2 DESCRIPTION OF SUPPORT UNITS

TABLE 2: SUPPORT UNIT INFORMATION.

NO.	PRODUCT	BRAND	MODEL NO.	ID	SPEC.
1	WIRELESS AC MODULE	D-Link	WMC-AC01	UZ7AP7131N	The maximum EIRP is 16.9dBm, Antenna Gain is 3.428dBi

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

TABLE 3: SOFTWARE/FIRMWARE INFORMATION.

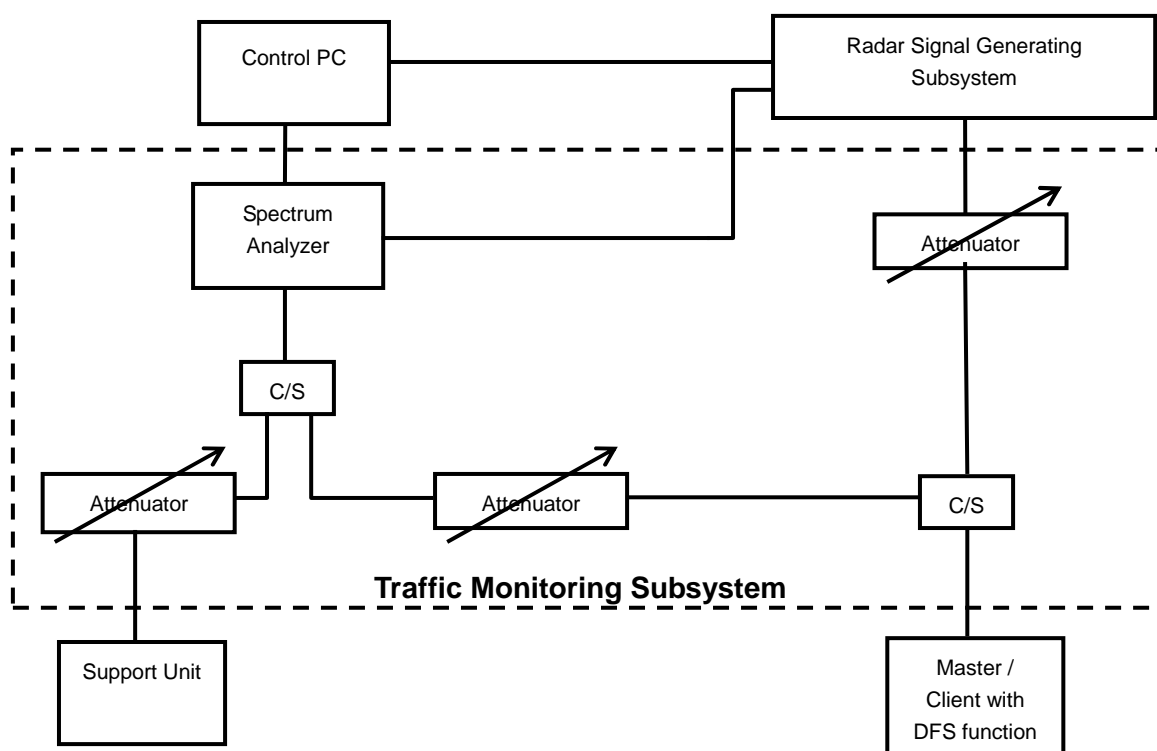
NO.	PRODUCT	MODEL NO.	SOFTWARE/FIRMWARE VERSION
1	WIRELESS AC MODULE	WMC-AC01	Mon 04 Feb. 2013 (version 6.30.163.13.r373323 WLTEST)

## 5 TEST PROCEDURE

### 5.1 BVADT DFS MEASUREMENT SYSTEM:

A complete BVADT DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

### CONDUCTED SETUP CONFIGURATION OF ADT DFS MEASUREMENT SYSTEM



The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6  $\frac{1}{2}$  Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

<http://ntiacsd.ntia.doc.gov/dfs/>.



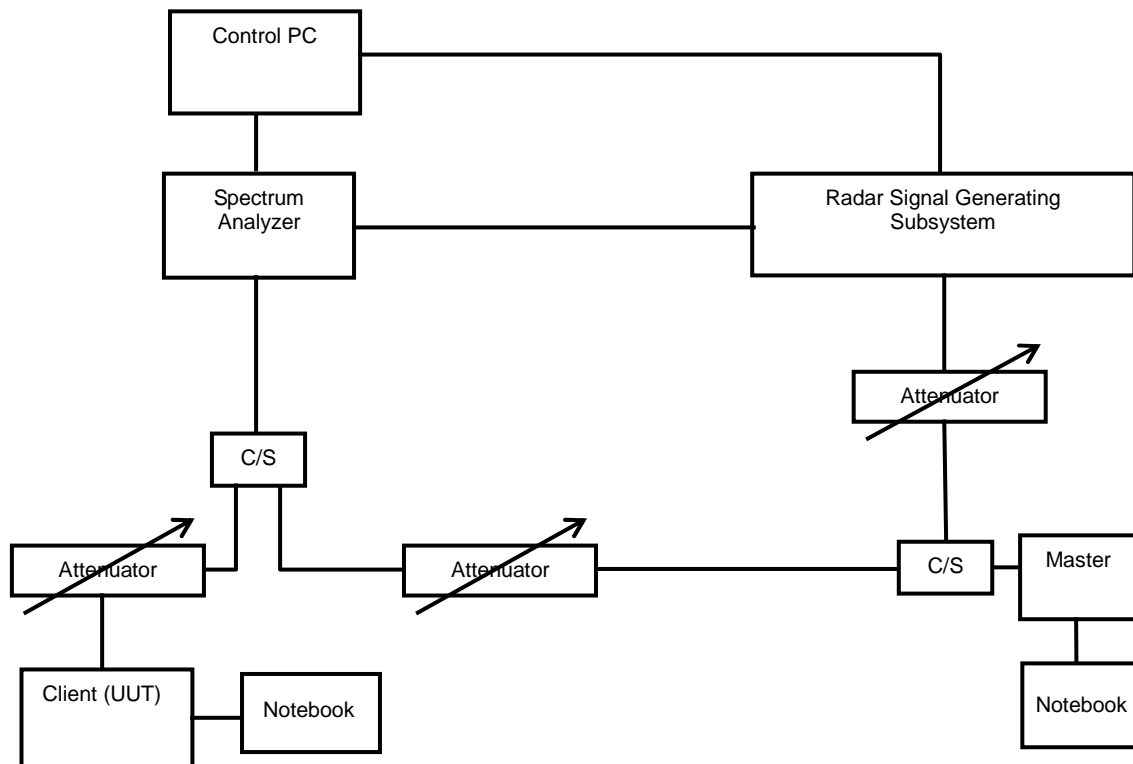


### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 CONDUCTED TEST SETUP CONFIGURATION

#### 5.4.1 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.

## 6 TEST RESULTS

### 6.1 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

## 6.2 DETAILED TEST RESULTS

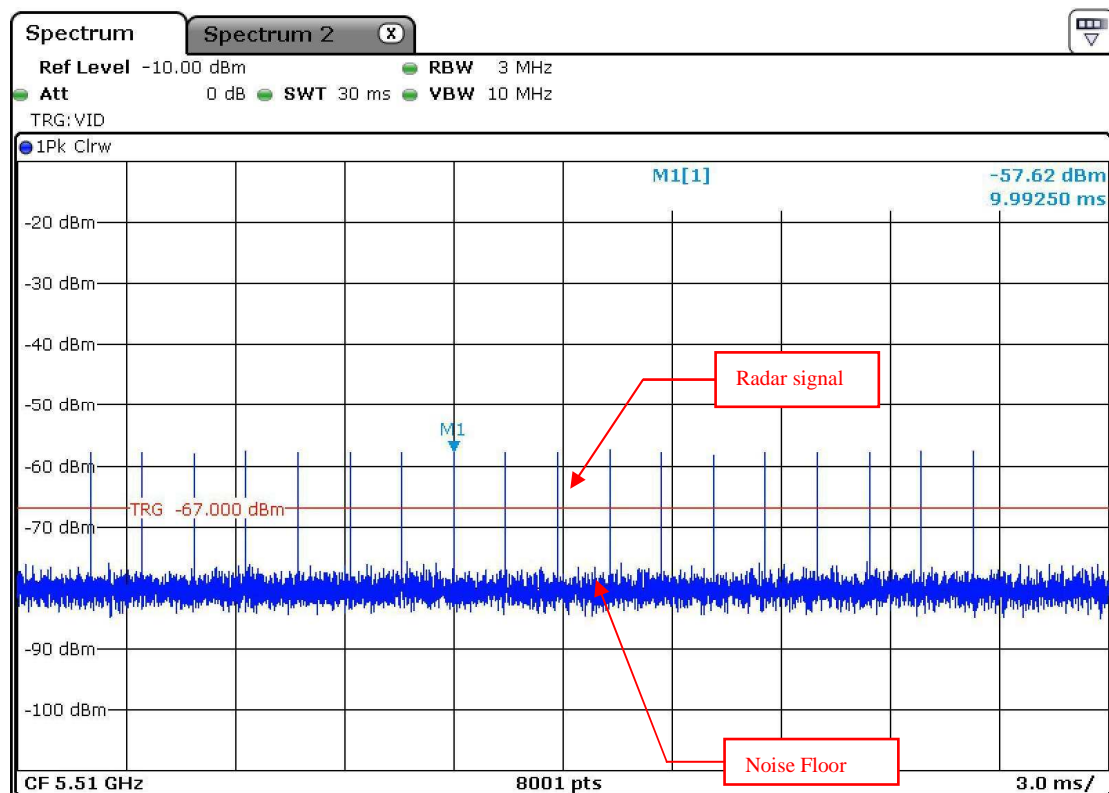
### 6.2.1 TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE

The radar test signals are injected into the Master Device.

This test was investigated for different bandwidth (20MHz and 40MHz, except the 80MHz bandwidth, because the UUT is not available). The following plots was done on 40MHz as a representative

### 6.2.2 DFS DETECTION THRESHOLD

The Required detection threshold is  $-57.572\text{dBm}$  ( $= -62 + 1 + 3.428$ )dBm. The conducted radar burst level is set to  $-57.572\text{dBm}$ .

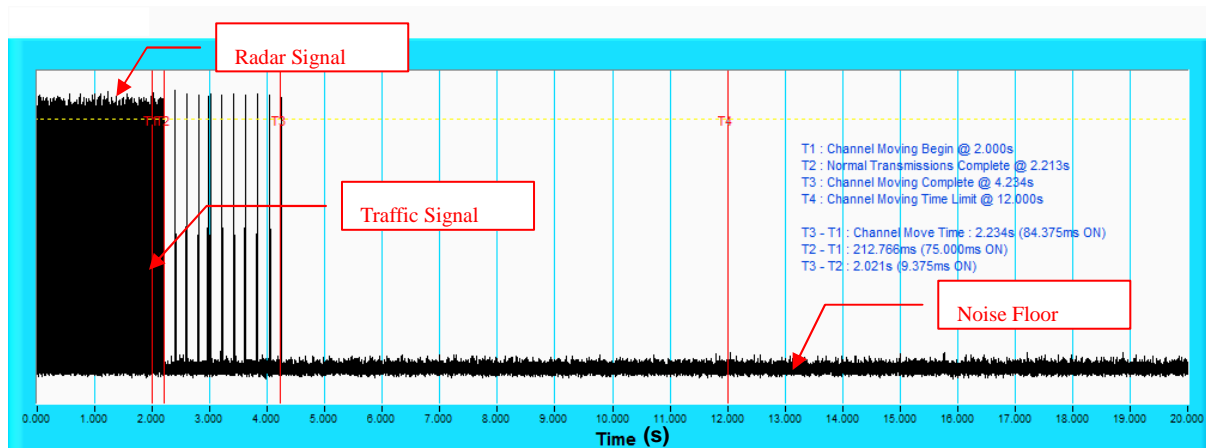


Radar Signal 1

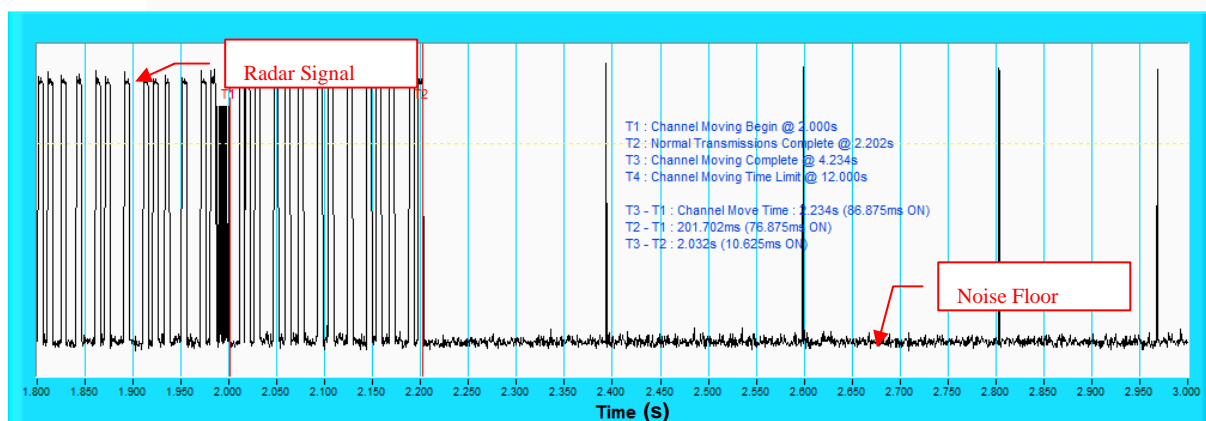
## 6.2.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

### 802.11n HT20

### CHANNEL 60



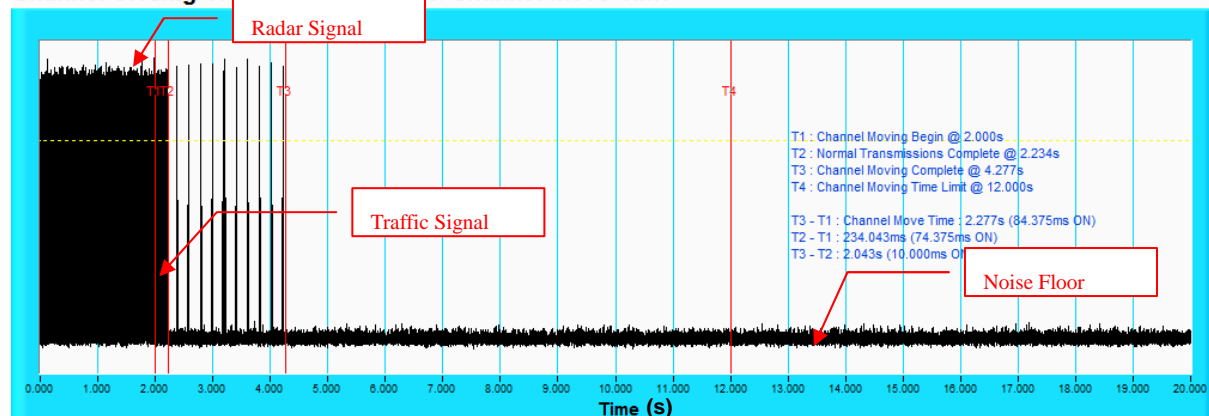
**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

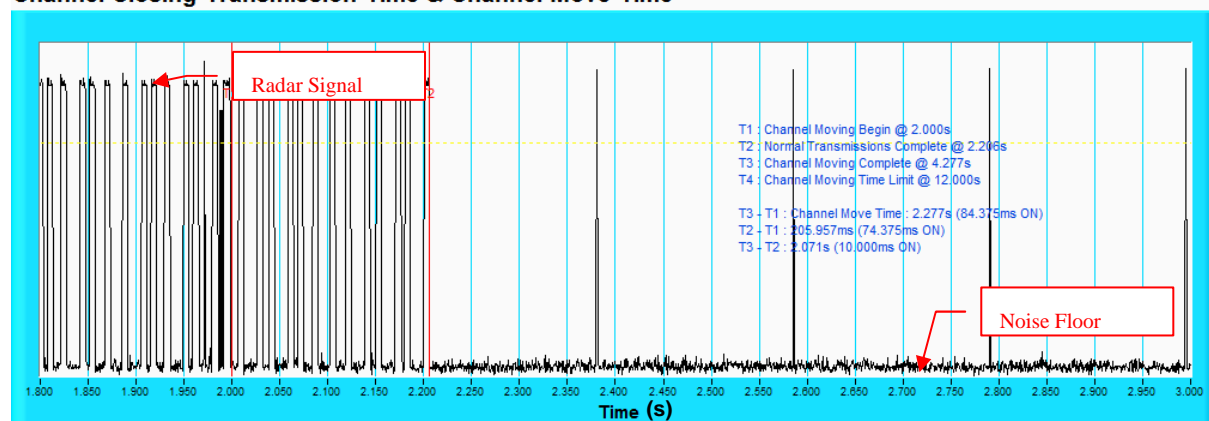
## 802.11n HT20 CHANNEL 100

### Channel Closing Transmission Time & Channel Move Time



**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. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

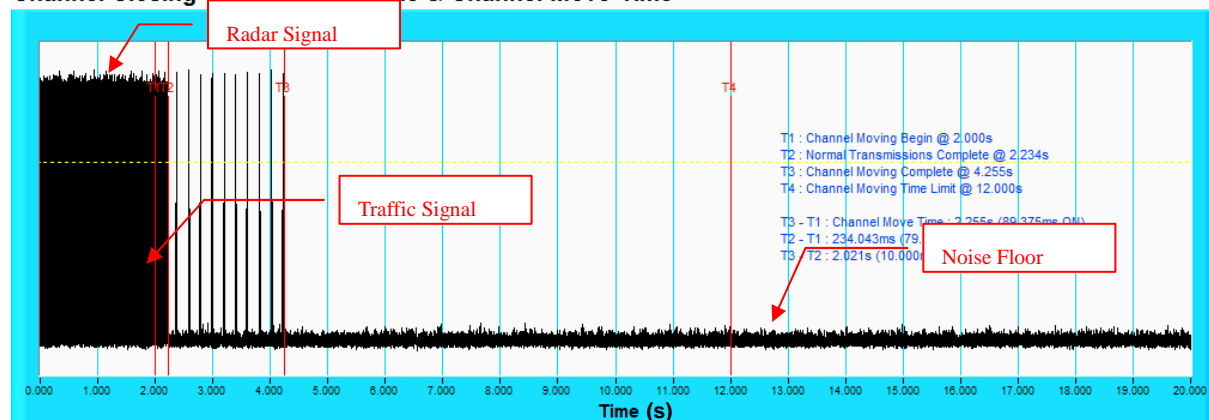
### Channel Closing Transmission Time & Channel Move Time



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

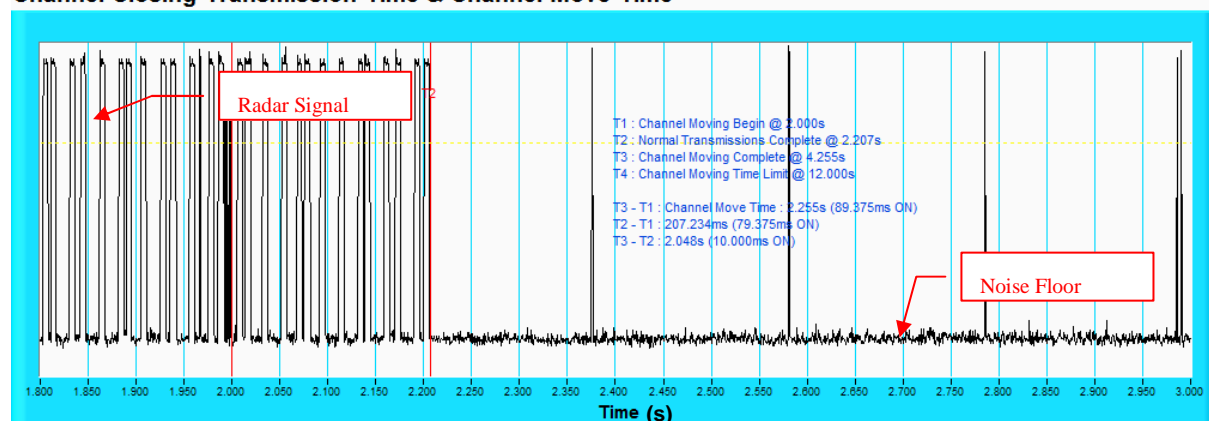
## 802.11n HT40 CHANNEL 62

### Channel Closing Transmission Time & Channel Move Time



**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. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

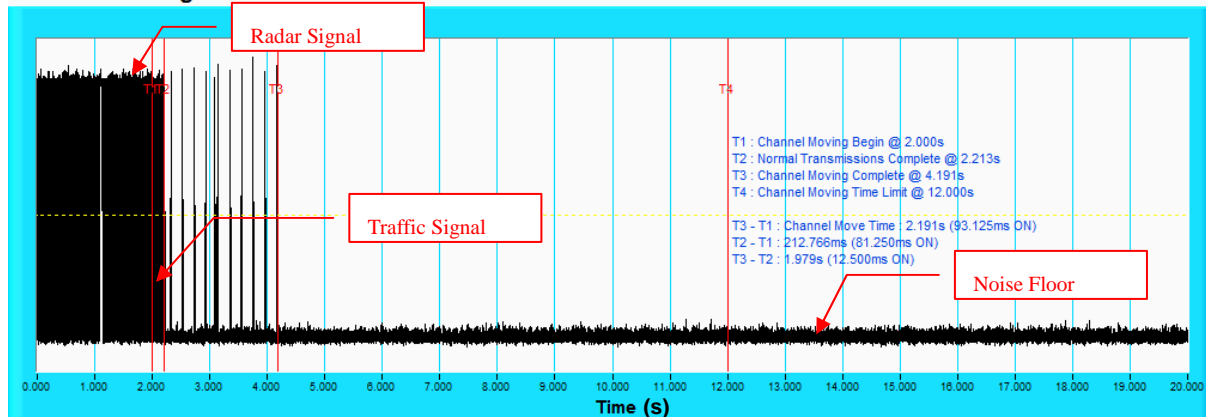
### Channel Closing Transmission Time & Channel Move Time



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

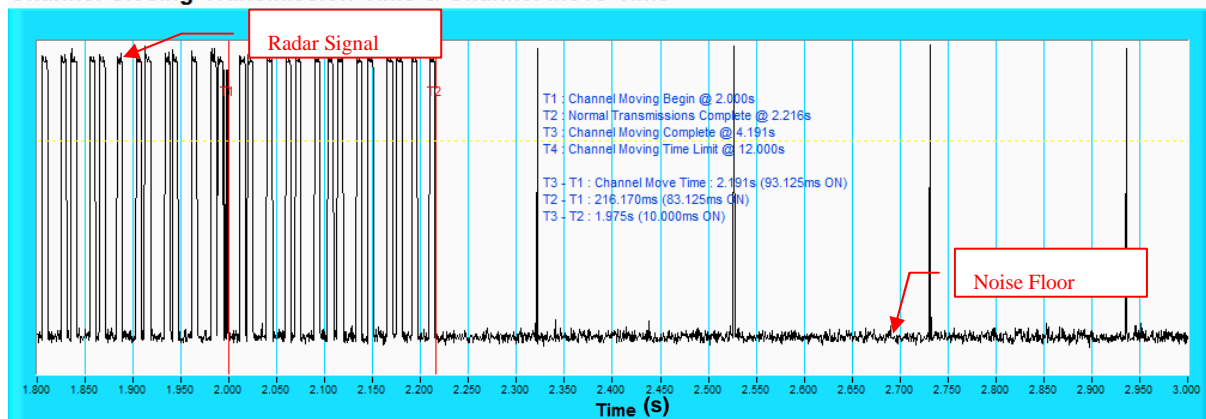
## 802.11n HT40 CHANNEL 102

### Channel Closing Transmission Time & Channel Move Time



**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. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time

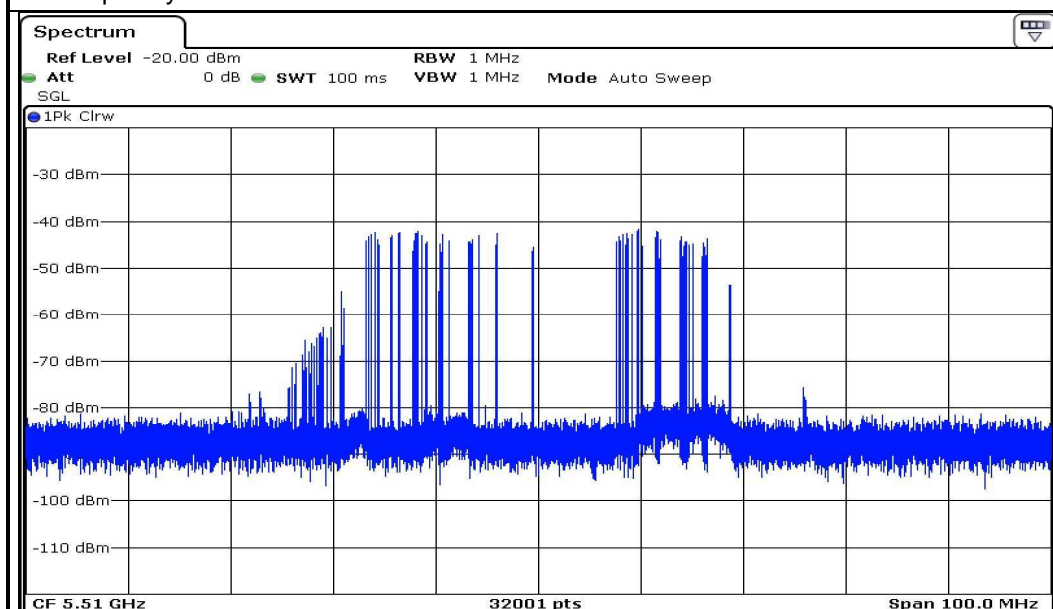


**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

## 6.2.4 NON- OCCUPANCY PERIOD

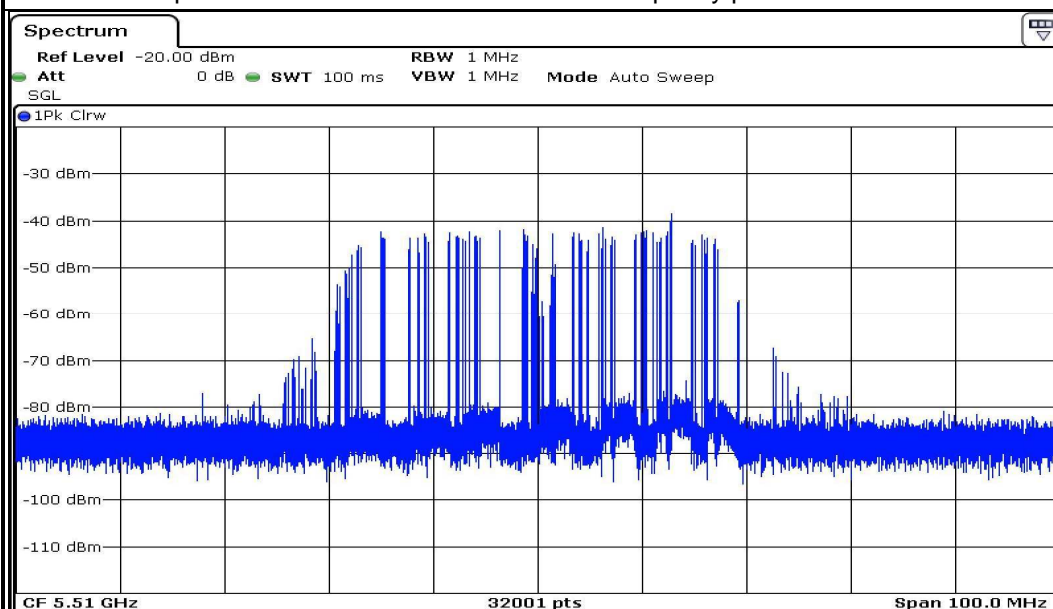
### ASSOCIATED TEST

1) Test results demonstrating an associated client link is established with the master on a test frequency.



**EUT (Client ) links with master on 5510MHz**

2) The client and DFS-certified master device are associated, and the movie can be streamed as specified in the DFS Order for a non-occupancy period test.



**Client plays a specified files via master.**



### 3). The device transmits one type of radar as specified in the DFS Order.

The screenshot displays the ADT Radar Test Signals Simulator interface. The 'Burst Table' is configured with a 'Fixed Radar' signal. The 'Spectrum' view shows a sharp peak at 5.51 GHz, labeled 'M1[1]', with a power level of -76.52 dBm. The background noise floor is around -80 dBm.

**ADT Radar Test Signals Simulator - Burst Table**

Burst Index	Signal	Power (dBm)	Duration (ms)	Frequency (MHz)	Bandwidth (MHz)	Modulation	Waveform	Waveform Parameters	Waveform Type	Waveform ID	Waveform Name	Waveform Description
1	Fixed Radar	-76.52	1000	5.51	10	QPSK	Fixed	1000	Fixed	1	Fixed Radar	Fixed Radar

**Spectrum Analyzer - M1[1]**

Frequency (MHz)	Power (dBm)
5.51	-76.52

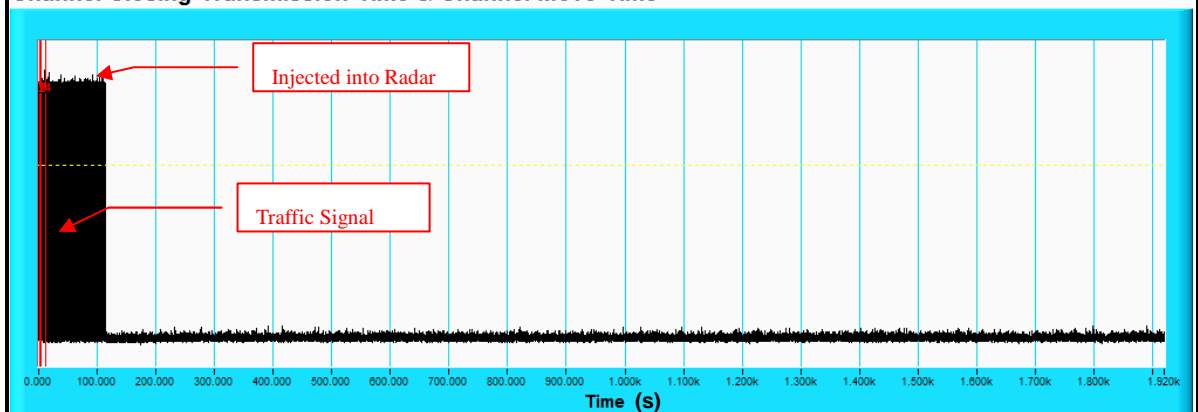


4) The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes;

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.

<b>Channel Closing Transmission Time &amp; Channel Move Time</b>					
<b>Channel Closing</b>	<b>Transmission Time</b>	<b>Channel Move Time</b>	<b>Channel Closing</b>	<b>Transmission Time</b>	<b>Channel Move Time</b>
1	0.000	0.000	1	0.000	0.000
2	0.000	0.000	2	0.000	0.000
3	0.000	0.000	3	0.000	0.000
4	0.000	0.000	4	0.000	0.000
5	0.000	0.000	5	0.000	0.000
6	0.000	0.000	6	0.000	0.000
7	0.000	0.000	7	0.000	0.000
8	0.000	0.000	8	0.000	0.000
9	0.000	0.000	9	0.000	0.000
10	0.000	0.000	10	0.000	0.000
11	0.000	0.000	11	0.000	0.000
12	0.000	0.000	12	0.000	0.000
13	0.000	0.000	13	0.000	0.000
14	0.000	0.000	14	0.000	0.000
15	0.000	0.000	15	0.000	0.000
16	0.000	0.000	16	0.000	0.000
17	0.000	0.000	17	0.000	0.000
18	0.000	0.000	18	0.000	0.000
19	0.000	0.000	19	0.000	0.000
20	0.000	0.000	20	0.000	0.000
21	0.000	0.000	21	0.000	0.000
22	0.000	0.000	22	0.000	0.000
23	0.000	0.000	23	0.000	0.000
24	0.000	0.000	24	0.000	0.000
25	0.000	0.000	25	0.000	0.000
26	0.000	0.000	26	0.000	0.000
27	0.000	0.000	27	0.000	0.000
28	0.000	0.000	28	0.000	0.000
29	0.000	0.000	29	0.000	0.000
30	0.000	0.000	30	0.000	0.000
31	0.000	0.000	31	0.000	0.000
32	0.000	0.000	32	0.000	0.000
33	0.000	0.000	33	0.000	0.000
34	0.000	0.000	34	0.000	0.000
35	0.000	0.000	35	0.000	0.000
36	0.000	0.000	36	0.000	0.000
37	0.000	0.000	37	0.000	0.000
38	0.000	0.000	38	0.000	0.000
39	0.000	0.000	39	0.000	0.000
40	0.000	0.000	40	0.000	0.000
41	0.000	0.000	41	0.000	0.000
42	0.000	0.000	42	0.000	0.000
43	0.000	0.000	43	0.000	0.000
44	0.000	0.000	44	0.000	0.000
45	0.000	0.000	45	0.000	0.000
46	0.000	0.000	46	0.000	0.000
47	0.000	0.000	47	0.000	0.000
48	0.000	0.000	48	0.000	0.000
49	0.000	0.000	49	0.000	0.000
50	0.000	0.000	50	0.000	0.000
51	0.000	0.000	51	0.000	0.000
52	0.000	0.000	52	0.000	0.000
53	0.000	0.000	53	0.000	0.000
54	0.000	0.000	54	0.000	0.000
55	0.000	0.000	55	0.000	0.000
56	0.000	0.000	56	0.000	0.000
57	0.000	0.000	57	0.000	0.000
58	0.000	0.000	58	0.000	0.000
59	0.000	0.000	59	0.000	0.000
60	0.000	0.000			

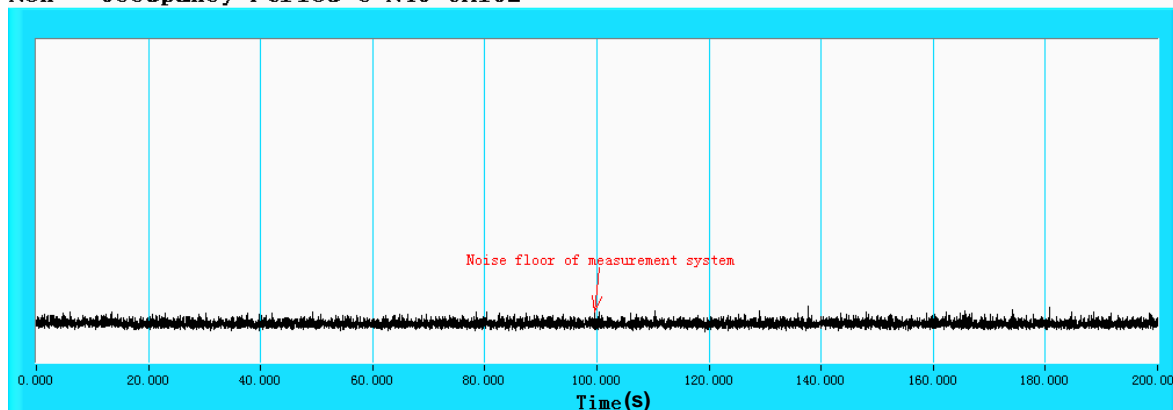


## 6.2.5 NON-ASSOCIATED TEST

Master was off.

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

Non - Occupancy Period @ N40 CH102



## 6.2.6 NON- CO-CHANNEL TEST

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

## **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---**