

## **DFS TEST REPORT**

**REPORT NO.:** RF140923E06-3

**MODEL NO.:** J20H085

FCC ID: MCLJ20H085

**RECEIVED:** Sep. 23, 2014

**TESTED:** Oct. 23, 2014

**ISSUED:** Nov. 11, 2014

APPLICANT: Hon Hai PRECISION IND.CO.,LTD.

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140923E06-3	Original release	Nov. 11, 2014

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#### 1. CERTIFICATION

PRODUCT: 802.11abgn/BT3.0 Wireless Module

**BRAND NAME: FOXCONN** 

**MODEL NO.:** J20H085

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: Hon Hai PRECISION IND.CO.,LTD.

**TESTED:** Oct 23, 2014

**STANDARDS:** FCC Part 15, Subpart E (Section 15.407)

FCC KDB 905462 D02 v01

The above equipment (Model: J20H085) has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and was in 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: Nov. 11, 2014 (Lori Chung, Specialist)

, Date: Approved By : Nov. 11, 2014

(May Cher, 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 FRE	QUENCY RANGE
OPERATIONAL MODE	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
Linux	1	802.11abgn/BT3.0 Wireless Module	J20H085	Driver version-3.0.0.2

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### 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

#### **TABLE 3: ANTENNA LIST**

	Set 1											
Transmitter Circuit	Brand	Model	Gain (dBi) (Include cable loss)	Cable Loss (dB)	Antenna Type	Connecter Type	Cable Length (mm)	Frequency range (MHz to MHz)				
Chain (0)	NA	NA	-0.4 1.12	NA	PCB	NA	NA	2400~2483.5 5150~5850				
Chain (1)	NA	NA	0.28 0.9	NA	PCB	NA	NA	2400~2483.5 5150~5850				
			Set 2									
Transmitter Circuit	Brand	Model	Gain (dBi) (Include cable loss)	Cable Loss (dB)	Antenna Type	Connecter Type	Cable Length (mm)	Frequency range (MHz to MHz)				
Chain (0)	WIESON	Z-Y121JT008A-013-S	2.26	0.5	Dipole	IPEX	100	2400~2483.5				
Criairi (0)	WILSON	Z-112131000A-013-3	3.22	1	Біроіс	IFLX	100	5150~5850				
Chain (1)	WIESON	Z-Y121JT008A-013-S	2.26	0.5	0.5 Dipole	IPEX	100	2400~2483.5				
Chain (1)	WILSON	Z-112131000A-013-3	3.22	1	Dipole	IPEX	100	5150~5850				
			Set 3									
Transmitter Circuit	Brand	Model	Gain (dBi) (Include cable loss)	Cable Loss (dB)	Antenna Type	Connecter Type	Cable Length (mm)	Frequency range (MHz to MHz)				
Ohair (0)	FOYCONN	EVOAKOO ON EE	1.2	0.87	Dipole	District	Discolo	Dinala IDEV MUE	Disale IDEV MUE	Disale IDEV MUE	047	2400~2483.5
Chain (0)	FOXCONN	FX01K03-SN-EF	1.2	NA		IPEX MHF	217	5150~5850				
Chain (1)	FOYCONN	FX01K03-SN-EF	1.2	0.87	Dipole	IPEX MHF	217	2400~2483.5				
Chain (1)	FOXCONN	FXUIKUS-SN-EF	1.2	NA	Dipole	IPEX WITH	217	5150~5850				
			Set 4									
Transmitter Circuit	Brand	Model	Gain (dBi) (Include cable loss)	Cable Loss (dB)	Antenna Type	Connecter Type	Cable Length (mm)	Frequency range (MHz to MHz)				
Chain (C)	MILCON	V424 IT0004 042 C	1.78	1	Dinali	IDEV	200	2400~2483.5				
Chain (0)	WIESON	Y121JT008A-016-S	2.78	1.5	Dipole	IPEX	200	5150~5850				
Chain (1)	WIESON	V424 IT0084 046 C	1.78	1	Dinala	IPEX	200	2400~2483.5				
Chain (1)	WIESON	Y121JT008A-016-S	2.78	1.5	Dipole	IPEA	200	5150~5850				



#### 2.4 EUT MAXIMUM CONDUCTED POWER

#### **TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER**

#### **IEEE 802.11a**

	MAX.	Power
Frequency Band(MHz)	Output	Output
	Power(dBm)	Power(mW)
5250~5350MHz	21.81	151.705
5470~5725MHz	21.23	132.739

#### IEEE 802.11n (HT20)

	MAX.	Power	
Frequency Band(MHz)	Output	Output	
	Power(dBm)	Power(mW)	
5250~5350MHz	21.45	139.637	
5470~5725MHz	20.52	112.72	

#### IEEE 802.11n (HT40)

	MAX.	Power
Frequency Band(MHz)	Output	Output
	Power(dBm)	Power(mW)
5250~5350MHz	19.54	89.95
5470~5725MHz	20.43	110.408



# 2.5 EUT MAXIMUM EIRP POWER TABLE 5: THE EIRP OUTPUT POWER

#### IEEE 802.11a

_	MAX.	Power
Frequency Band(MHz)	Output	Output
	Power(dBm)	Power(mW)
5250~5350MHz	25.03	318.420
5470~5725MHz	24.45	278.611

#### IEEE 802.11n (HT20)

	MAX.	Power
Frequency Band(MHz)	Output	Output
	Power(dBm)	Power(mW)
5250~5350MHz	24.67	293.090
5470~5725MHz	23.74	236.593

#### IEEE 802.11n (HT40)

_	MAX.	Power
Frequency Band(MHz)	Output	Output
	Power(dBm)	Power(mW)
5250~5350MHz	22.76	188.800
5470~5725MHz	23.65	231.740



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

Maximum EIRP of this device is 318.420mW 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 6 and 7 for the applicability of DFS requirements for each of the operational modes.

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

		Operational Mo	ode
Requirement	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	Not required	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

TABLE 7: APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

	Opera	tional Mode
Requirement	Master or Client with radar detection	Client without radar detection
DFS Detection Threshold	✓	Not required
Channel Closing Transmission Time	✓	✓
Channel Move Time	✓	✓
U-NII Detection Bandwidth	✓	Not required



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

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequencies between the bonded 20 MHz channel blocks.



#### 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 Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 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.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

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#### **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	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. 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 0 should be used. 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	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 $\mu$ sec, with a minimum increment of 1 $\mu$ sec, excluding PRI values selected in Test A	Roundup $ \begin{cases} \left(\frac{1}{360}\right) \cdot \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right) \end{cases} $	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
Note 4. (		gate (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		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

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#### 4. TEST & SUPPORT EQUIPMENT LIST

#### 4.1 TEST INSTRUMENTS

**TABLE 13: TEST INSTRUMENTS LIST.** 

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSW8	101497	Aug. 06, 2014	Aug. 05, 2015
Vector Signal Generator R&S	SMJ100A	101878	Aug. 12, 2014	Aug. 11, 2015

#### 4.2 DESCRIPTION OF SUPPORT UNITS

**TABLE 14: SUPPORT UNIT INFORMATION.** 

NO.	PRODUCT	BRAND	MODEL NO.	ID	SPEC.
1	WIRELESS AC MODULE	D-Link	WMC-AC01	RRK2012060056 -1	The maximum EIRP is 27.64 dBm, Antenna Gain is 3.428dBi

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

#### TABLE 15: SOFTWARE/FIRMWARE INFORMATION.

NO.	PRODUCT	PRODUCT MODEL NO.	
1.	WIRELESS AC MODULE	WMC-AC01	1.00 Wed 06 Mar 2013

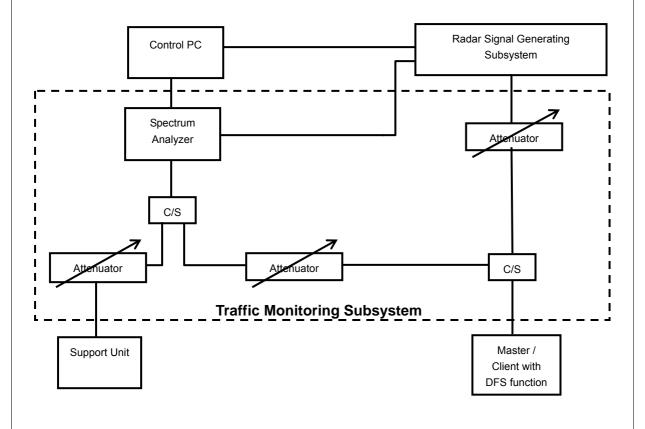


#### 5. TEST PROCEDURE

#### 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 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

## CONDUCTED SETUP CONFIGURATION OF ADT 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:

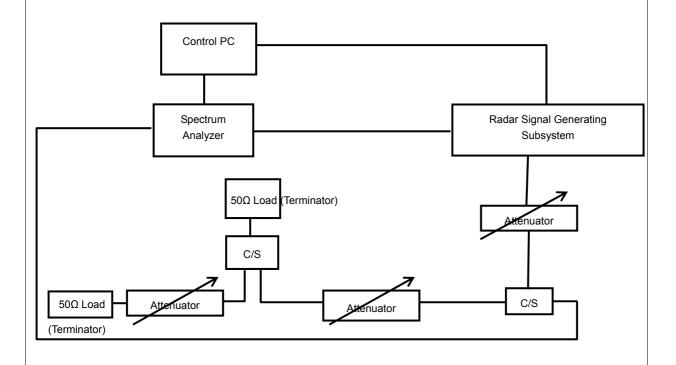
a)	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.	
b)	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.	
c)	Timing plots are required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



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

The measured channel is 5500 MHz in 20MHz Bandwidth, 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 antenna gain is 3.428dBi and required detection threshold is -59.572dBm (= -64 +1 +3.428). The calibrated conducted detection threshold level is set to -59.572 dBm.

## CONDUCTED SETUP CONFIGURATION OF CALIBRATION OF DFS DETECTION THRESHOLD LEVEL



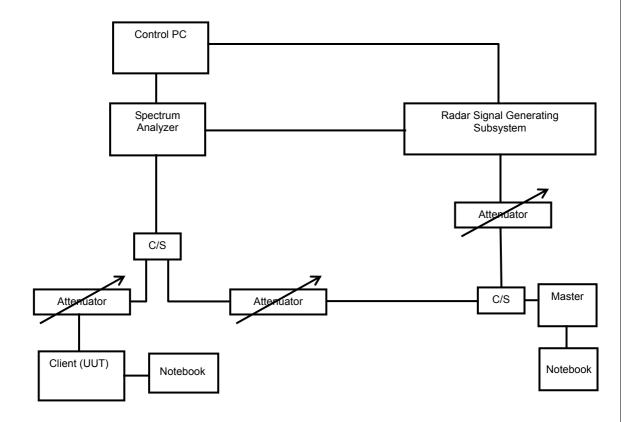


#### 5.3 DEVIATION FROM TEST STANDARD

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	NA
15.407	Channel Availability Check Time	Not Applicable	NA
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	U-NII Detection Bandwidth	Not Applicable	NA
15.407	Non-associated test	Applicable	Pass
15.407	Non-Co-Channel test	Applicable	Pass



#### 6.2 DETAILED TEST RESULTS

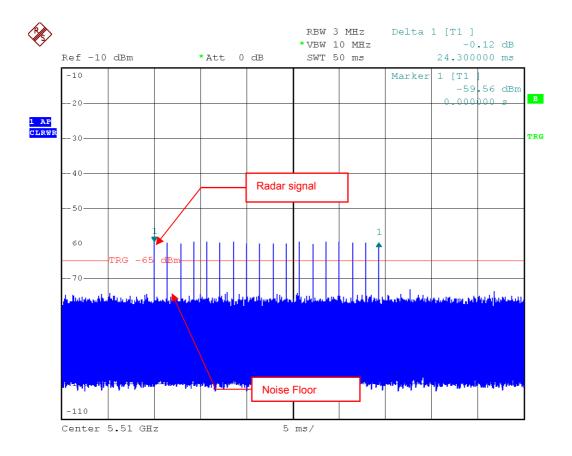
## 6.2.1 TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE.

The radar test signals are injected into the Master Device.

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

#### 6.2.1.1 DFS DETECTION THRESHOLD

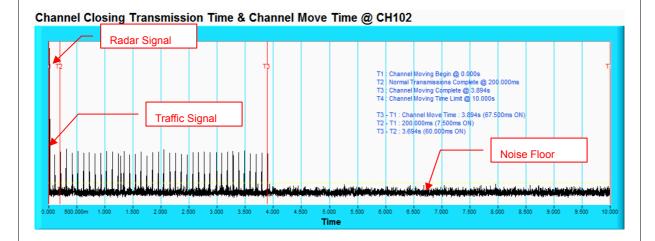
The required detection threshold is -59.572dBm (= -64 + 3.428 + 1). The conducted radar burst level is set to -59.572dBm.



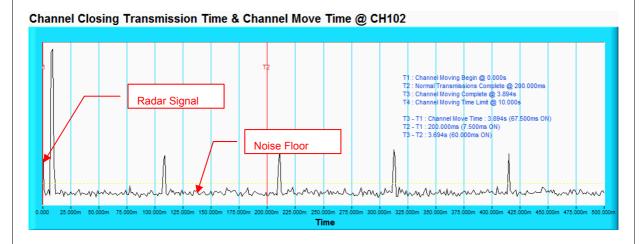
Radar Signal 0



#### 6.2.1.2 CHANNEL CLOSING TRANSMISSION AND 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.



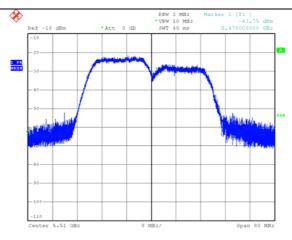
**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.



#### 6.2.1.3 NON-OCCUPANCY PERIOD

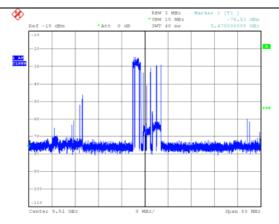
#### **ASSOCIATED TEST**

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



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

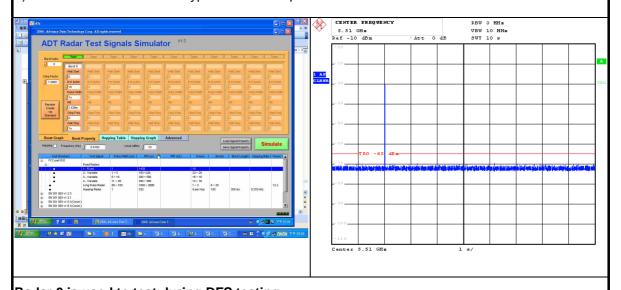
 The master and DFS-certified client device are associated, and system testing will be performed with channel-loading using means appropriate to the data types for a non-occupancy period test.



Client plays a specified files via master.



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

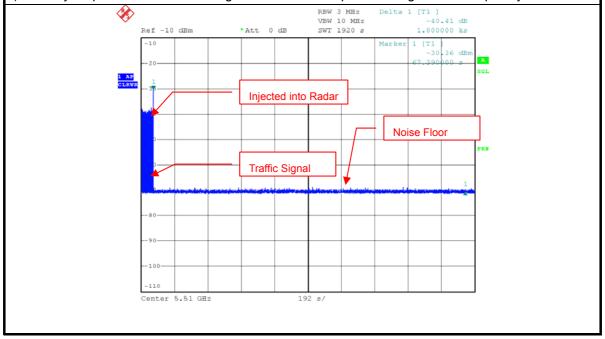


Radar 0 is used to test during DFS testing.

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.

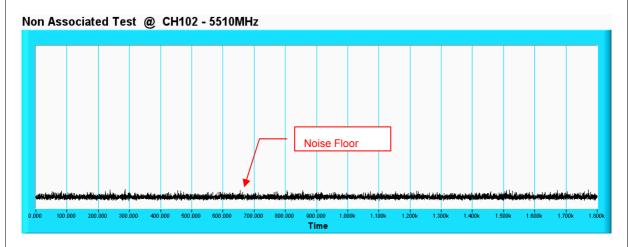




#### 6.2.1.4 NON-ASSOCIATED TEST

Master was off.

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



#### 6.2.1.5 NON- CO-CHANNEL TEST

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



#### 7. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF/Telecom Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26052943 Fax: 886-3-5935342

#### Hwa Ya EMC/RF/Safety Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <a href="mailto:service.adt@tw.bureauveritas.com">service.adt@tw.bureauveritas.com</a>
Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

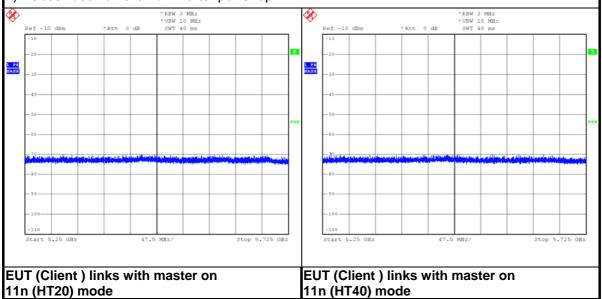
The address and road map of all our labs can be found in our web site also.



### 8. APPENDIX-A

#### NON BEACON ON DFS BAND

- 1) Test results demonstrating no any beacon on DFS band after power up.
- 2) Observation time is 10min after power up.



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# 9. APPENDIX B - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

ENGINEERING CHANGES TO THE EUT BY THE LAB
No modifications were made to the EUT by the lab during the test.
END