	BUREAU VERITAS
	DFS Test Report
Report No.:	RF180521E10F-3
FCC ID:	PY318200414
Test Model:	RAX80
Received Date:	Mar. 14, 2019
Test Date:	Aug. 12, 2020
Issued Date:	Sep. 18, 2020
Applicant:	NETGEAR, Inc.
Address:	350 East Plumeria Drive San Jose, CA 95134
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
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Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022
	TAE
	ilac-MRA
	Testing Laboratory 2022
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report are not indicative or representative specifically and expressly noted. Our report	is report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this e of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product ort includes all of the tests requested by you and the results thereof based upon the information that you provided to
notice shall be in writing and shall specific	ce of this report to notify us of any material error or omission caused by our negligence, provided, however, that such cally address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your ness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the
	plicitly taken into account to declare the compliance or non-compliance to the specification.



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	Re	elease Control Record	
Issue No.	Description		Date Issued
RF180521E10F-3	Original release.		Sep. 18, 2020
Report No.: RF180521E1	10F-3	Page No. 3 / 23	Report Format Version: 6.1.2



1	Certificate of Conformity				
	Product:	Nighthawk AX8 8-Stream AX6000 WiFi Router			
	Brand:	NETGEAR			
	Test Model:	RAX80			
	Sample Status:	ENGINEERING SAMPLE			
	Applicant:	NETGEAR, Inc.			
	Test Date:	Aug. 12, 2020			
	Standards:	FCC Part 15, Subpart E (Section 15.407)			
I	References Test Guidance:	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02			
	Guidance.	KDB 905462 D03 Clients Without Radar Detection New Rules v01r02			

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 :	Phoeix	Huang	, Date:	Sep. 18, 2020
_	Phoenix Huang	/ Specialist	_	

Approved by :

Jail

Date: Sep. 18, 2020

Clark Lin / Technical Manager



## 2 EUT Information

#### 2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

Operational Made	Operating Frequency Range		
Operational Mode	5250~5350MHz	5470~5725MHz	
Client without radar detection and ad hoc function	$\checkmark$	✓	

#### 2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

No.	Product	Model No.	Software/Firmware Version
1	Nighthawk AX8 8-Stream AX6000 WiFi Router	RAX80	V1.0.3.99_1.0.48

#### 2.3 Description of Available Antennas to the EUT

Table 3: Antenna List					
Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Antenna Connector		
2.4~2.4835	4.28				
5.15~5.25	5.56		i-pex(MHF)		
5.25~5.35	5.56	Dipole			
5.47~5.725	6.22				
5.725~5.85	6.22				
Note: More detailed information, please refer to opearating description.					

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



#### 2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

## CDD Mode

Frequency Band	MAX. Power		MIN. Power	
(MHz)	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	245.567	23.90	61.660	17.9
5470~5725	234.441	23.70	58.884	17.7

#### **Beamforming Mode**

Frequency Band	MAX. Power		MIN. Power	
(MHz)	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	248.698	23.96	62.604	17.96
5470~5725	238.154	23.77	59.841	17.77

#### 2.5 EUT Maximum EIRP Power

Table 5: The EIRP Output Power List

## CDD Mode

Frequency Band	MAX. EIRP Power		MIN. EIRP Power	
(MHz)	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	897.780	29.53	225.512	23.53
5470~5725	857.104	29.33	215.295	23.33

#### **Beamforming Mode**

Frequency Band	MAX. EIRP Power		MIN. EIRP Power	
(MHz)	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	894.689	29.52	224.905	23.52
5470~5725	997.374	29.99	250.611	23.99



## 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 e.i.r.p. of less than 500 mW.

Applicable	EIRP	FCC 15.407 (h)(1)
√	>500mW	The TPC mechanism is required for system with an EIRP of above 500mW
	<500mW	The TPC mechanism is not required for system with an EIRP of less 500mW

The UUT can adjust a transmitter's output power based on the signal level present at the receiver.TPC is auto controlled by software.

#### 2.7 Statement of Manufacturer

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.

	Operational Mode				
Requirement	Master	Client without radar detection	Client with radar detection		
Non-Occupancy Period	~	✓ note	$\checkmark$		
DFS Detection Threshold	~	Not required	$\checkmark$		
Channel Availability Check Time	~	Not required	Not required		
U-NII Detection Bandwidth	~	Not required	$\checkmark$		

#### Table 6: Applicability of DFS Requirements Prior to Use a Channel

Note: Regarding KDB 905462 D03 Client Without Radar Detection New Rules v01r02 section(b)(5/6), 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. An analyzer plot that contains a single 30-minute sweep on the original channel.

#### Table 7: Applicability of DFS Requirements during Normal Operation

	Operational 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 each of the bonded 20 MHz channels and the channel center frequency.



## 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	-62 dBm	
power spectral density < 10 dBm/MHz		
EIRP < 200 milliwatt that do not meet the	C4 dDre	
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.

#### 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.

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 15 unique PRI values randomly selected within the range of 518~3066 $\mu$ sec with a minimum of 1 $\mu$ sec, excluding PRI values selected in Test A	Roundup $\left\{ \begin{array}{c} 1\\ \hline 360 \\ \hline \\ $	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 1: Ch		gate (Radar Types 1-4)	for the detection here	80%	120

#### Table 10: Short Pulse Radar Test Waveforms

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



Table 11: Long Pulse Radar Test Waveform							
Radar Type Pulse Chirp Width Width (μsec) (MHz) PRI (μsec) Bu					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

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

a) the Channel center frequency

b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth

c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

#### FL+(0.4\*Chirp Width [in MHz])

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

*FH*-(0.4\**Chirp Width* [*in MHz*])

#### 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 13: Test Instruments List

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	101516	Mar. 04, 2020	Mar. 03, 2021
Vector Signal Generator Agilent	N5182B	MY53051263	Aug. 30, 2019	Aug. 29, 2020
DFS Control Box	BV-DFS-CB	001	Nov. 29, 2019	Nov. 28, 2020

#### **NOTE:** 1. The test was performed in DFS-1 room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. Tested Date: Aug. 12, 2020

#### 4.2 Description of Support Units

No.	Product	Brand	Model No.	FCC ID	SPEC.
1	Wireless-AX60 00 Dual Band Gigabit Router	ASUS	RT-AX88U	MSQ-RTAXHP00	The maximum EIRP is 29.97 dBm, Antenna Gain is 2.24dBi

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

Table 15: Software/Firmware Information

No.	Product	Model No.	Software/Firmware Version
1.	Wireless-AX6000 Dual Band Gigabit Router	RT-AX88U	3.0.0.4.384

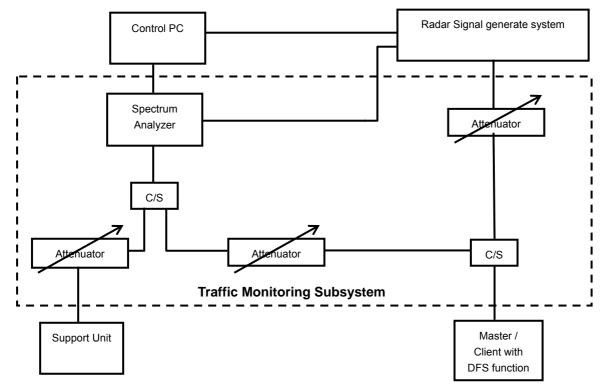


## 5. Test Procedure

## 5.1 DFS Measurement System

A complete DFS Measurement System consists of Radar signal generate system to generating the radar waveforms in Table 10, 11 and 12. 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.	$\checkmark$
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 chosen from the operating channels of the UUT within the 5.25-5.35 GHz band and the 5.47-5.725 GHz and using the all bandwidth mode available for the link. 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 2.24dBi and required detection threshold is -60.76dBm (= -64 +1 +2.24). The calibrated conducted detection threshold level is set to -60.76 dBm.

# 

#### Conducted Setup Configuration of Calibration of DFS Detection Threshold Level

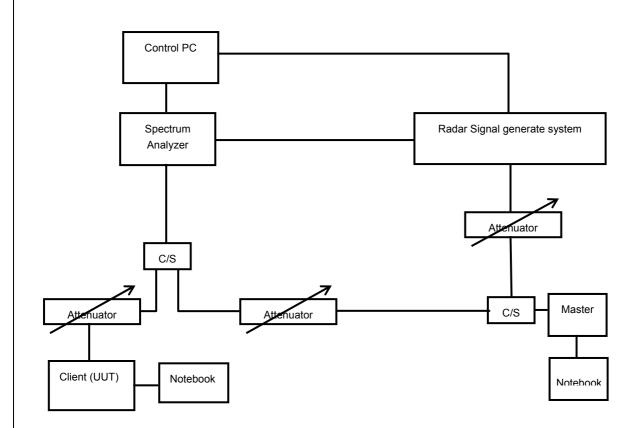
## 5.3 Deviation from Test Standard

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

Note: This device does not support "802.11ax Channel Puncturing" function.

## 6.2 Test Results

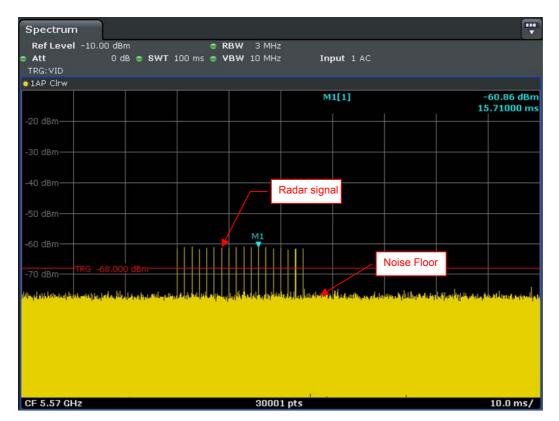
6.2.1 Test Mode: Device Operating in Client without Radar Detection Mode

The radar test signals are injected into the Master Device. This test was investigated for different bandwidth (20/40/80/160MHz). The following plots was done on 160MHz as a representative

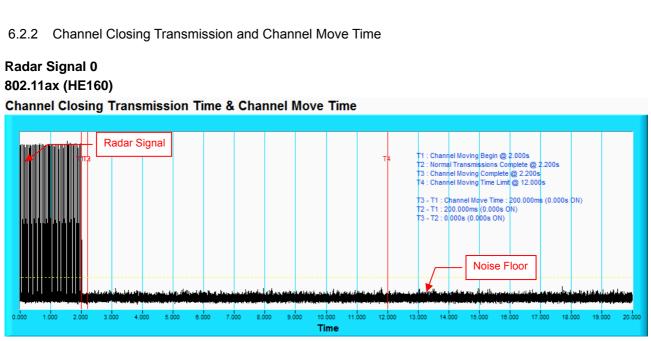
## DFS Detection Threshold

The Required detection threshold is -60.76dBm (= -64 +1 +2.24).

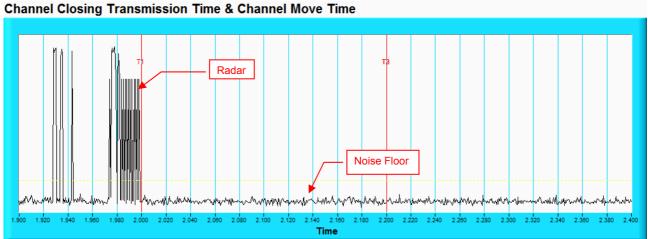
The conducted radar burst level is set lower than -60.76dBm.



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.



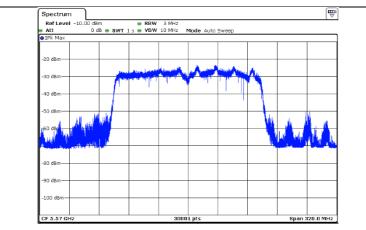
**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.



## 6.2.3 Non-Occupancy Period

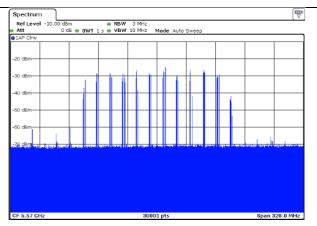
## ASSOCIATED TEST

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

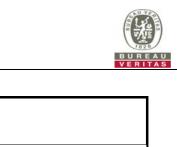


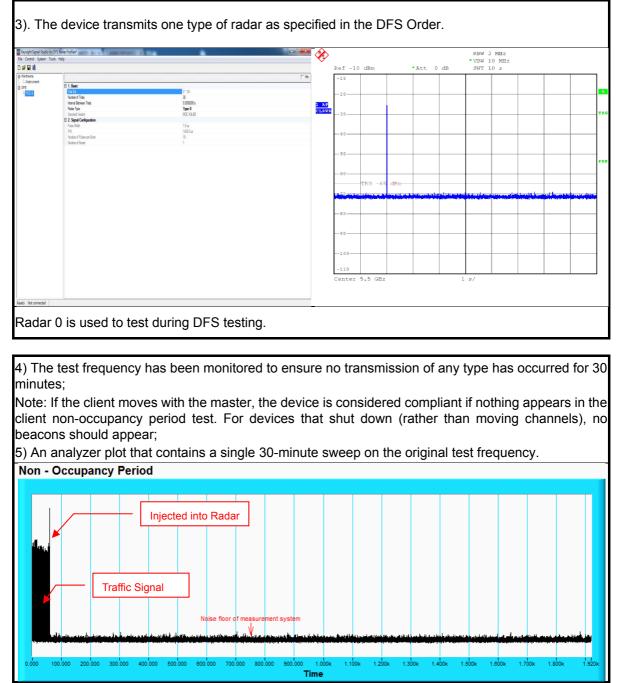
#### EUT (Client ) links with master on 5570MHz

The client and DFS-certified master device are associated, and system testing will be performed with channel-loading for a non-occupancy period test.



Client performed with channel-loading via master.



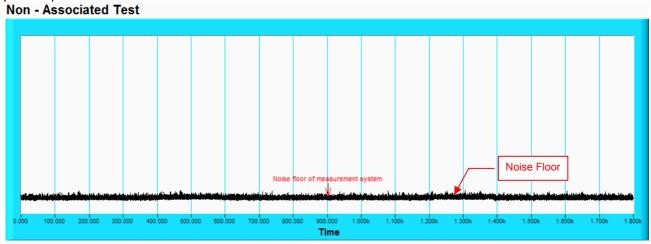




## 6.2.4 Non-Associated Test

#### Master was off.

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



## 6.2.5 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 of 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:

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



# 8. APPENDIX-A

Spectrum			1	Spectrum		
Ref Level -10.00 dBm a Att 0 dB 1 a 1Pk Max	● RBW 3 MHz ● BWT 40 ms ● VBW 10 MHz	Mode Sweep Input 1		Ref Level -10.00 dBm • Att 0 dB • S • 1Pk Max	e RBW 3 MHz WT +0 ms e VBW 10 MHz Mode Swe	eep Input 1 AC
-20 dBm				-20 d8m		
-30 dBm				-30 dBm		
-40 d8m				-40 dBm-		
-50 dBm				-50 d8m		
-60 dBm				-60 dlim		
-70 dBm-				-70 dBm		and the second second second second
400 deim				Collegitive of the second and and and	a sour distribution (MA) she date in A- and the statistical	
-90 dB/o				-90 dBm		
100.000						
-100 0000				-100 dBm		
Start 5.25 GHz	3000	1 pts	Stop 5.725 GH		30001 pts	Stop 5.725
				Start 5.25 GHz		
Client (UUT	) no transmi			Blart 5.25 GHz	30001 pts	
				Client (UUT) mode		
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Devel - 0.00 dBm		it on 802.1′	1ax (HE20)	Client (UUT) mode		802.11ax (HE40
Client (UUT mode Spectrum Ref Level - 10.00 dBm	) no transmi	it on 802.1′	1ax (HE20)	Start 5.25 GHz Client (UUT) mode Spectrum Part Level -10.00 dlm • Att 0 db • 9 S	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Start 5.25 GHz Client (UUT) mode Spectrum Art Level -10.00 dim Art Level -10.00 dim Start L	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Start 5.25 GHz Client (UUT) mode Spectrum Part Level -10.00 dlm • Att 0 db • 9 S	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Client (UUT) mode  Spectrum Att Level -10.00 dim A	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Stert 5.25 GHz Client (UUT) mode Spectrum Art 0.00 dim Att 0.00 dim At	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Stert 5.25 GHz Client (UUT) mode Spectrum Art 0.00 dim Att 0.00 dim At	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Stert 5.25 GHz Client (UUT) mode Spectrum Art 0.00 dim Att 0.00 dim At	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Stert 5.25 GHz Client (UUT) mode Spectrum Art 0.00 dim Att 0.00 dim At	no transmit on	802.11ax (HE40
Client (UUT mode Spectrum Ret Level - 10.00 dBm Att Dodd 5	) no transmi	it on 802.1′	1ax (HE20)	Stert 5.25 GHz Client (UUT) mode Spectrum Art 0.00 dim Att 0.00 dim At	no transmit on	802.11ax (HE40

## NON BEACON ON DFS BAND

--- END ----