



# **FCC** Radio Test Report

FCC ID: RWO-RZ0902386

This report concerns	(check one):	<b>⊠Original Grant</b>	☐Class I	Change [	ceilClass II Change
----------------------	--------------	------------------------	----------	----------	---------------------

Project No. : 1803C063
Equipment : Notebook
Test Model : RZ09-02386
Series Model : RZ09-02385
Applicant : Razer Inc.

Address : 201 3rd Street, Suite 900, San Francisco, CA

94103,USA

Date of Receipt : Mar. 08, 2018

**Date of Test** : Mar. 12, 2018 ~ Apr. 09, 2018

Issued Date : May 21, 2018 Tested by : BTL Inc.

Testing Engineer : Welly

(Well Zhou)

Technical Manager : Shawh X100

(Shawn Xiao)

Authorized Signatory : \_\_\_\_\_\_\_(Steven Lu)

# BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



Report No.: BTL-FCCP-5-1803C063 Page 1 of 30





#### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL shall have no liability for any declarations, inferences or generalizations drawn by the client or others from BTL issued reports.

**BTL**'s report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and BTL-self, extracts from the test report shall not be reproduced except in full with BTL's authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Report No.: BTL-FCCP-5-1803C063 Page 2 of 30





Table of Contents	Page
1. CERTIFICATION	5
2 . EUT INFORMATION	6
2.1 EUT SPECIFICATION TABLE	6
2.2 CONDUCTED OUTPUT POWER AND EIRP	7
3 . U-NII DFS RULE REQUIREMENTS	8
3.1 WORKING MODES AND REQUIRED TEST ITEMS	8
3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS	9
4. TEST INSTRUMENTS	13
5 . EMC EMISSION TEST	14
5.1 DFS MEASUREMENT SYSTEM:	14
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:	18
5.3 DEVIATION FROM TEST STANDARD	18
6. TEST RESULTS	19
6.1 SUMMARY OF TEST RESULT	19
6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE	19
6.3 DFS DETECTION THRESHOLD	19
6.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLA	N TRAFFIC
	24
6.5 NON- OCCUPANCY PERIOD	29

Report No.: BTL-FCCP-5-1803C063 Page 3 of 30





# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-5-1803C063	Original Issue.	May 11, 2018
MDG1805037	<ol> <li>Added the DFS DETECTION THRESHOLD.</li> <li>N40 change to AC40.</li> </ol>	May 22, 2018

Report No.: BTL-FCCP-5-1803C063 Page 4 of 30





#### 1. CERTIFICATION

Equipment : Notebook Brand Name : RAZER Test Model : RZ09-02386 Series Model RZ09-02385 Applicant : Razer Inc. Manufacturer: Razer Inc.

: 201 3rd Street, Suite 900, San Francisco, CA 94103, USA Address

: BYD Precision Manufacture Co.,Ltd. Factory

No.3001, Baohe Road, Baolong industrial, Longgang Street, Longgang Address

Zone, Shenzhen

Date of Test : Mar. 12, 2018 ~ Apr. 09, 2018

Test Sample : Engineering Sample

Standard(s) : FCC Part 15, Subpart E (Section 15.407) / FCC 06-96

> FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02 FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v0

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-5-1803C063) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the DFS part.

Report No.: BTL-FCCP-5-1803C063 Page 5 of 30





# 2. EUT INFORMATION

#### 2.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

Equipment	Notebook
Brand Name	RAZER
Test Model	RZ09-02386
Series Model	RZ09-02385
Model Difference	Please refer to note 2.
Operational Mode	Slave
Operating Frequency Range	5250MHz~5350MHz&5470MHz~5725MHz
Modulation	OFDM

**Note:** This device was functioned as a Master Slave Without Radar Detection

#### 1. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Molex	N/A	Internal	N/A	4.79
2	Molex	N/A	Internal	N/A	4.58

#### Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
 Directional gain =10log[(10<sup>G1/20</sup>+10<sup>G2/20</sup>+...10<sup>GN/20</sup>)<sup>2</sup>/N]dBi,that is Directional gain= 10log[(10<sup>4.79/20</sup>+10<sup>4.58/20</sup>)<sup>2</sup>/2]dBi =7.70

Operating Mode	4TV	OTV
TX Mode	1TX	2TX
802.11a	-	V (ANT 1+ANT 2)
802.11n (20MHz)	-	V (ANT 1+ANT 2)
802.11n (40MHz)	-	V (ANT 1+ANT 2)
802.11ac (20MHz)	-	V (ANT 1+ANT 2)
802.11ac (40MHz)	-	V (ANT 1+ANT 2)
802.11ac (80MHz)	-	V (ANT 1+ANT 2)
802.11ac(160MHz)	-	V (ANT 1+ANT 2)

Report No.: BTL-FCCP-5-1803C063 Page 6 of 30





2

Model	RZ09-02386	RZ09-02385
Graphics Card	N17E-G2 MAX-Q	N17E-G1 MAX-Q
A dontor	DC20 024004	#1 RC30-024801
Adapter	RC30-024801	#2 RC30-0238
Power Rating	I/P:AC100-240V, 3.6V 50/60Hz O/P:DC 19.5V, 11.8A	#1 I/P: AC100-240V, 3.6V 50/60Hz O/P: DC 19.5V, 11.8A #2 I/P: AC 100-240V, 2.5A 50/60Hz O/P: DC 19.5V/10.26A

# 2.2 CONDUCTED OUTPUT POWER AND EIRP

Table 2: The Conducted Output Power and EIRP List

Mode: TX (11a)				
Frequency	Max Couducted Output			Max EIRP
Band (MHz)	Power (dBm)	Gain	(dBm)	(mW)
5260~5320	18.71	7.70	26.41	437.522
5500~5700	18.70	7.70	26.40	436.516

Mode: TX (11ac 40MHz)					
Frequency	Max EIRP	Max EIRP			
Band (MHz)	Power (dBm)	Gain	(dBm)	(mW)	
5260~5320	18.24	7.70	25.94	392.64	
5500~5700	18.54	7.70	26.24	420.73	

Mode: TX (11ac 80MHz)					
Frequency	Frequency Max Couducted Output Antenna Max EIRP Max				
Band (MHz)	Power (dBm)	Gain	(dBm)	(mW)	
5260~5320	16.81	7.70	24.51	282.488	
5500~5700	16.99	7.70	24.69	294.442	

Mode: TX (11ac 160MHz)					
Frequency	Frequency Max Couducted Output Antenna Max EIRP Max EIR				
Band (MHz)	Power (dBm)	Gain	(dBm)	(mW)	
5500~5700	14.39	7.70	22.09	161.808	

Report No.: BTL-FCCP-5-1803C063





# 3. U-NII DFS RULE REQUIREMENTS

#### 3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the EUT is capable of operating as a Master and/or a Client. If the EUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 3 and 4 for the applicability of DFS requirements for each of the operational modes.

Table 3: Applicability of DFS requirements prior to use a channel

	Operational Mode				
Requirement	Master	Client without radar detection	Client with radar 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	√		

Table 4: Applicability of DFS requirements during normal operation.

	Operational Mode			
Requirement	Master	Client without radar detection	Client with radar detection	
DFS Detection Threshold	√	Not required	√	
Channel Closing Transmission Time	$\checkmark$	√	√	
Channel Move T□m□	√	√	√	
U-NII Detection Bandwidth	√	Not required	√	

Report No.: BTL-FCCP-5-1803C063 Page 8 of 30





#### 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

#### **DETECTION THRESHOLD VALUES**

Table 5: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

Maximum Tran□m□t Power	Value	
	( See Notes 1 and 2)	
EIRP≥□200 milliwatt	-64 dBm	
EIRP < 200 milliwatt and	00 ID	
Power pectral density < 10 dBm/MHz	-62 dBm	
EIRP < 200 milliwatt that do not meet the	04.15	
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.

Report No.: BTL-FCCP-5-1803C063 Page 9 of 30





Table 6: 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 80% of the UNII 99% 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.

Report No.: BTL-FCCP-5-1803C063 Page 10 of 30





#### 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 7: Short Pulse Radar Test Waveforms.

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
	Width		runioer of Fuises	l	Number
Type		(µsec)		Percentage of	l
	(µsec)			Successful	of
				Detection	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 $ \left\{ \frac{1}{360} \right\}. $ $\left( \frac{19 \cdot 10^6}{PRI_{\mu \text{sec}}} \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
	-4 D-1 D - 1		1 C		1-441

Note 1: Short Pulse Radar Type 0 shall only be used for the channel availability and detection bandwidth tests. It should be noted that any of the radar test waveforms 0-4 can be used for the channel availability and detection bandwidth tests.

Report No.: BTL-FCCP-5-1803C063 Page 11 of 30





Table 8: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Numberof Pulsesper Burst	Numberof Bursts	Minimum Percentage of Successful Detection	Minimum Number ofTrials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 9: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Numberof Pulsesper Burst	Numberof Bursts	Minimum Percentage of Successful Detection	Minimum Number ofTrials
6	1	333	9	0.333	300	70%	30

Report No.: BTL-FCCP-5-1803C063 Page 12 of 30





Note:

Table 5a - Pulse Repetition Intervals Values for Test  ${\bf A}$ 

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

# 4. TEST INSTRUMENTS

Table 10: Test instruments list.

DESCRIPTION	MANUFACTURER	MODEL NO.	Serial No	Calibration Until
EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 11, 2019
Signal Generator	Agilent	E4438C	MY49071316	Mar. 11, 2019
POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 24, 2019
POWER SPLITTER	Mini-Circuits	ZN4PD1-63-S+	SF9335D1045-1	Feb. 21, 2019
Attenuator	WOKEN	6SM3502	VAS1214NL	Mar. 01, 2019

Note: Calibration interval of instruments listed above is one year.

Report No.: BTL-FCCP-5-1803C063 Page 13 of 30





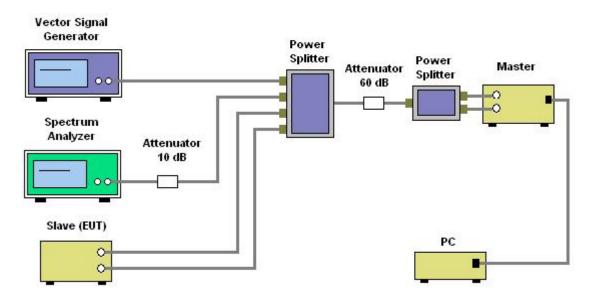
#### 5. EMC EMISSION TEST

#### **5.1 DFS MEASUREMENT SYSTEM:**

#### **Test Precedure**

- 1. Master device and client device are set up by conduction method as the following configuration.
- 2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to reach 17% channel loading as below

#### Setup



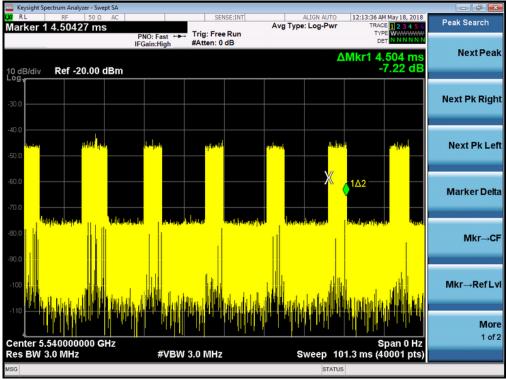
Report No.: BTL-FCCP-5-1803C063 Page 14 of 30



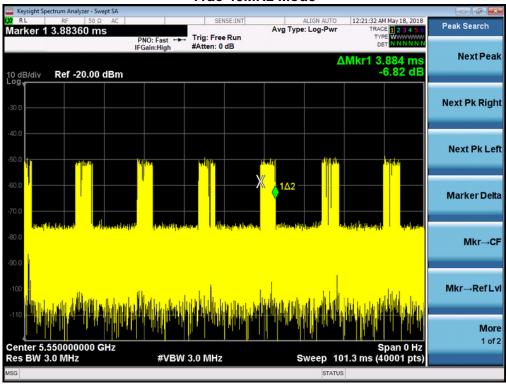


# **Channel Loading**

#### 11a Mode



# 11ac 40MHz Mode

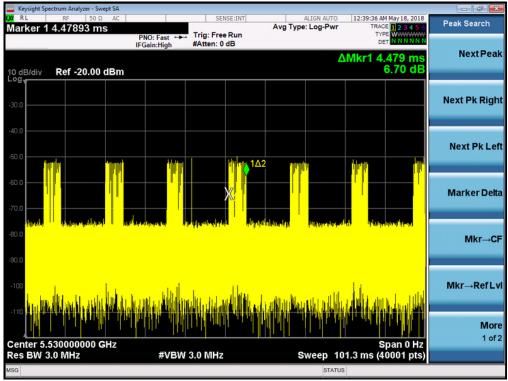


Report No.: BTL-FCCP-5-1803C063 Page 15 of 30

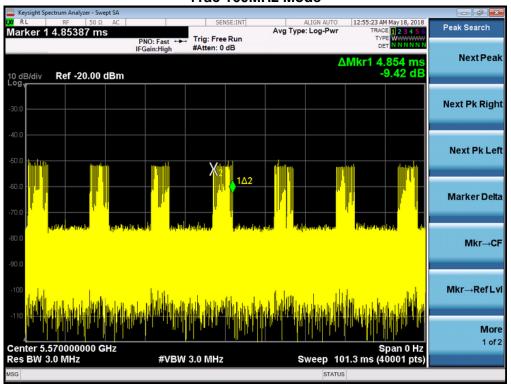




#### 11ac 80MHz Mode



#### 11ac 160MHz Mode



Channel	Marker Delta	Number	On Time	Total Time	Dutycycle
5540	4.504	6	27.024	101.3	26.68%
5550	3.884	6	23.304	101.3	23.00%
5530	4.479	6	26.874	101.3	26.53%
5570	4.854	7	33.978	101.3	33.54%

Report No.: BTL-FCCP-5-1803C063 Page 16 of 30





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 FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH 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 set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. 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.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.

Report No.: BTL-FCCP-5-1803C063 Page 17 of 30





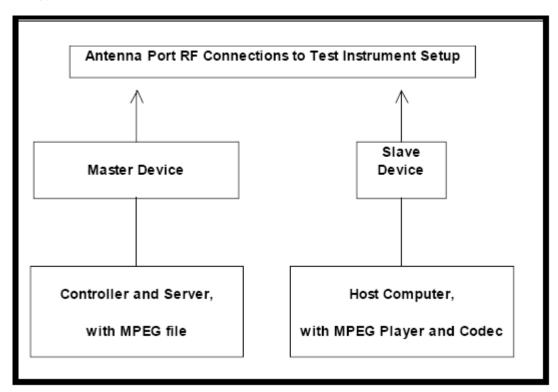
#### 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from –62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

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 –62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



#### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

Report No.: BTL-FCCP-5-1803C063 Page 18 of 30





#### **6. TEST RESULTS**

#### **6.1 SUMMARY OF TEST RESULT**

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	No 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

#### 6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE

The EUT is slave equipment, it need a master device when testing.

Master with injection at the Master. (Radar Test Waveforms are injected into the Master)

#### **6.3 DFS DETECTION THRESHOLD**

#### Calibration:

The EUT is slave equipment with a max gain is 4.79 dBi.

For a detection threshold level of -62dBm and the master (Brand: HUAWEI, Model: AP6150DN, FCC ID: QISAP6050DN6150DN) antenna gain is 4.82 dBi, required detection threshold is -57.18 dBm (= -62+4.82).

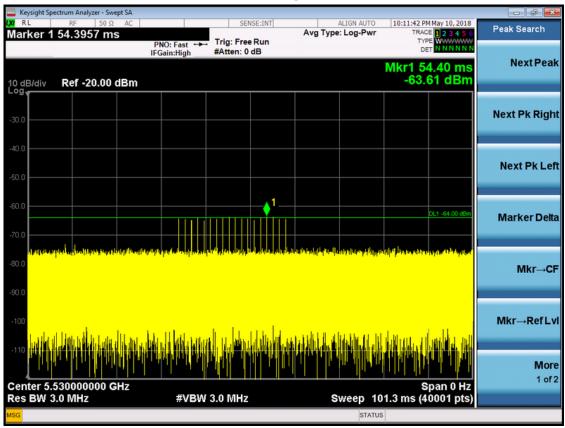
Note: Maximum Transmit Power is less than 200 milliwatt in this report, so detection threshold level is -62dBm.

Report No.: BTL-FCCP-5-1803C063 Page 19 of 30

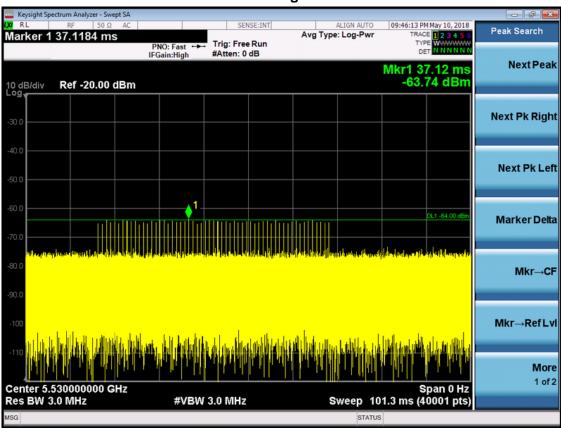




# Radar Signal 0



# Radar Signal 1

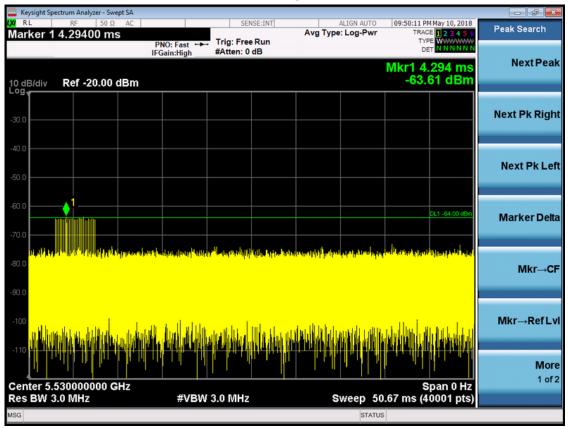


Report No.: BTL-FCCP-5-1803C063 Page 20 of 30

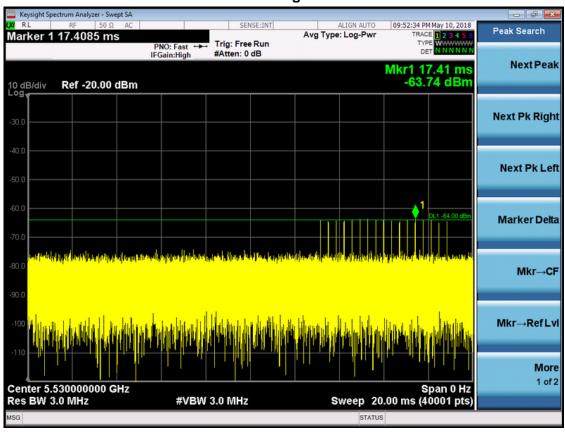




# Radar Signal 2



# Radar Signal 3



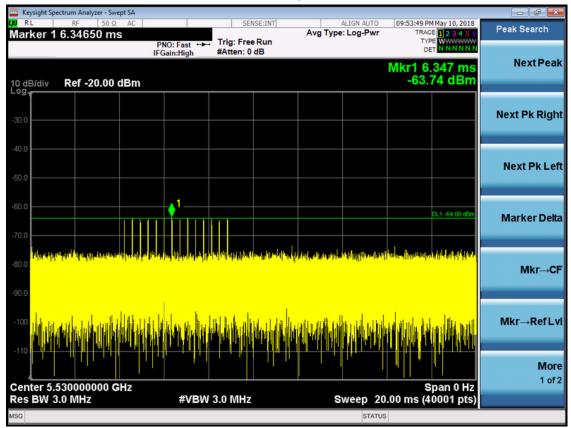
Report No.: BTL-FCCP-5-1803C063 Page 21 of 30



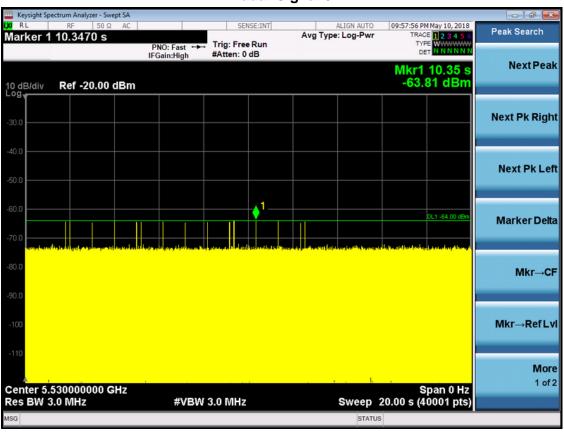


Page 22 of 30

# Radar Signal 4



# Radar Signal 5

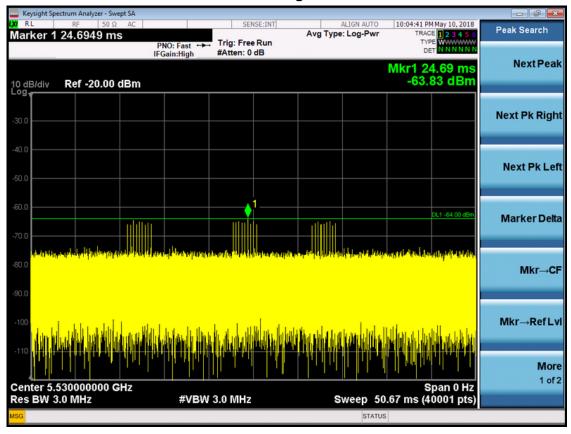


Report No.: BTL-FCCP-5-1803C063





# Radar Signal 6



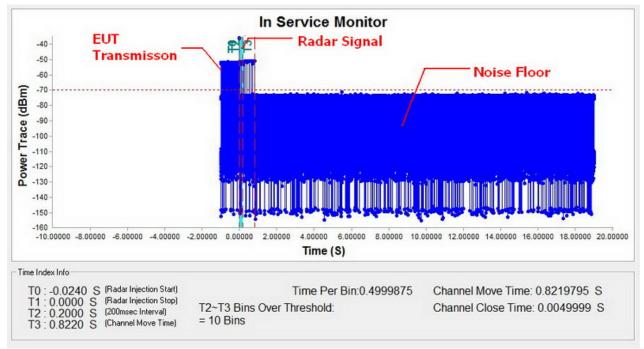
Report No.: BTL-FCCP-5-1803C063 Page 23 of 30





#### 6.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

TX (11a Mode)

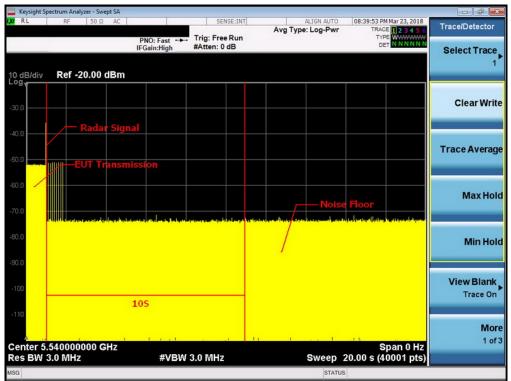


**Note:** To denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



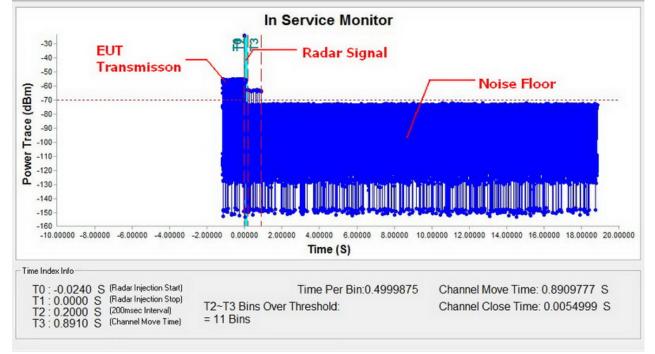
Note: An expanded plot for the device vacates the channel in the required 500ms

Report No.: BTL-FCCP-5-1803C063 Page 24 of 30





# TX (11ac 40MHz Mode)

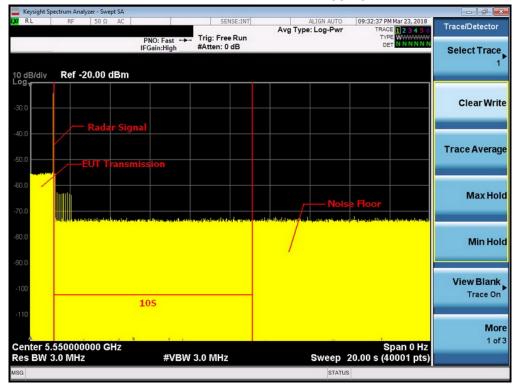


**Note:** To denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



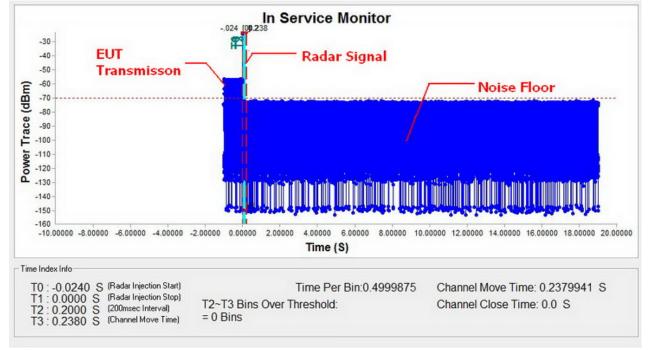
Note: An expanded plot for the device vacates the channel in the required 500ms

Report No.: BTL-FCCP-5-1803C063 Page 25 of 30





# TX (11ac 80MHz Mode)

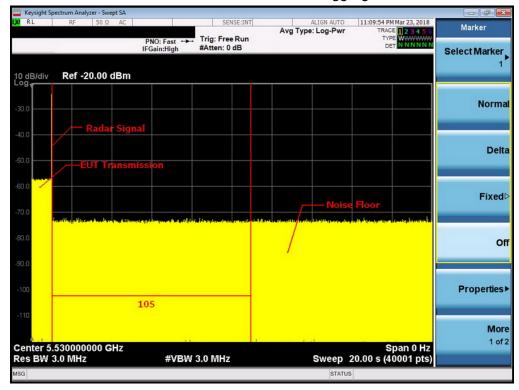


**Note:** To denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.

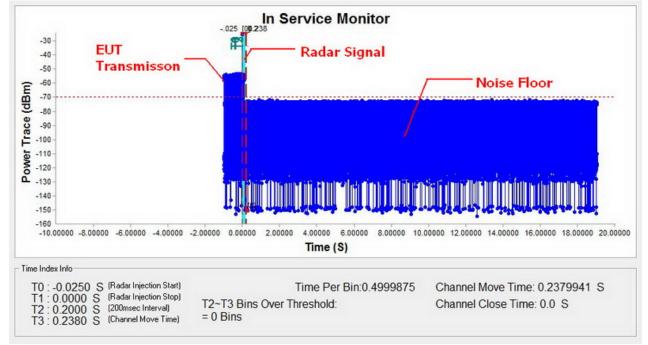


Note: An expanded plot for the device vacates the channel in the required 500ms





#### TX (11ac 160MHz Mode)

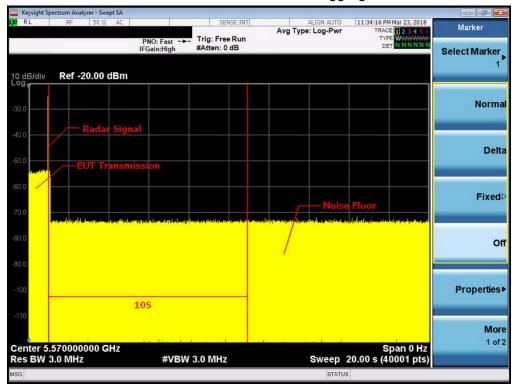


Note: T0 denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



Note: An expanded plot for the device vacates the channel in the required 500ms

Report No.: BTL-FCCP-5-1803C063 Page 27 of 30





	11a Mode				
Item	Measured Value(s)	Limit(s)			
Channel Move Time	0.8219795	10			
		200 milliseconds + an aggregate of			
Channel Close Time	0.0049999	60 milliseconds over remaining 10			
		second period			

11ac 40MHz Mode				
Item	Measured Value(s)	Limit(s)		
Channel Move Time	0.8909777	10		
Channel Close Time	0.0054999	200 milliseconds + an aggregate of 60 milliseconds over remaining 10		
		second period		

11ac 80MHz Mode		
Item	Measured Value(s)	Limit(s)
Channel Move Time	0.2379941	10
		200 milliseconds + an aggregate of
Channel Close Time	0.0	60 milliseconds over remaining 10
		second period

11ac 160MHz Mode			
Item	Measured Value(s)	Limit(s)	
Channel Move Time	0.2379941	10	
		200 milliseconds + an aggregate of	
Channel Close Time	0.0	60 milliseconds over remaining 10	
		second period	

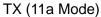
Report No.: BTL-FCCP-5-1803C063 Page 28 of 30

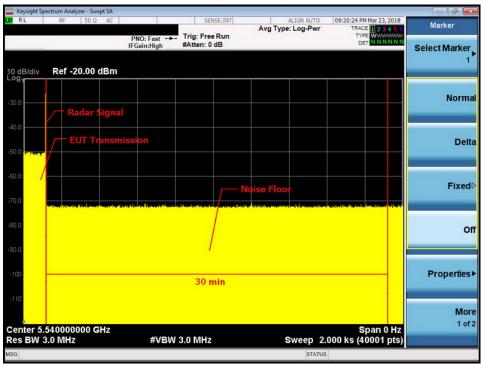




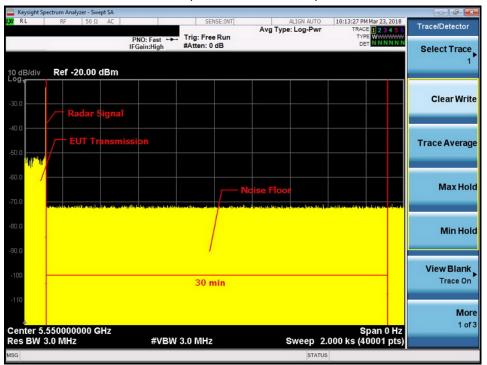
#### 6.5 NON-OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.





TX (11ac 40MHz Mode)

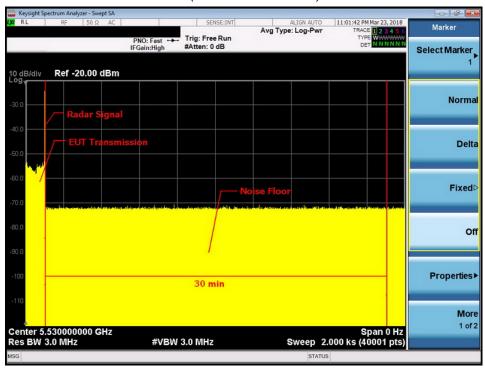


Report No.: BTL-FCCP-5-1803C063

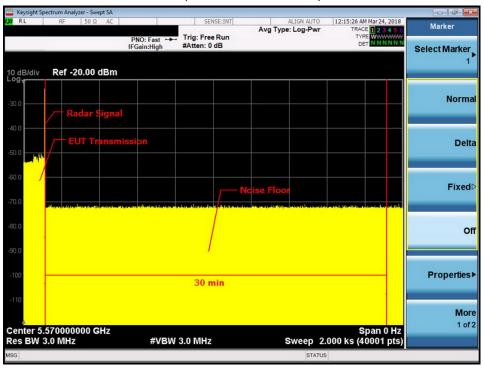




# TX (11ac 80MHz Mode)



# TX (11ac 160MHz Mode)



Report No.: BTL-FCCP-5-1803C063 Page 30 of 30