

		: RWO	-RZ0903	00
	This rep	ort concerns:	Original Gran	t
Project No. Equipment Test Model Series Model Applicant Address	: 1903 : Note : RZ09 : N/A : Raze : 201 : USA	book 0-0300 r Inc.	e 900, San Frar	ncisco, CA 94103
Date of Receipt Date of Test Issued Date Tested by	: Mar.	27, 2019 28, 2019 ~ Ap 15, 2019 Inc.	r. 22, 2019	
Testing Enginee	er	:	Kar (Kai Xu	Xu
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Certificate #5123.02



Declaration

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

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. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	May 09, 2019
R01	Modified the comments of TCB.	May 15, 2019



1. GENERAL SUMMARY

Brand Name:RAZERTest Model:RZ09-0300Series Model:N/AApplicant:Razer Inc.Manufacturer:Razer Inc.Address:201 3rd Street, Suite 900, San Francisco, CA 94103 USADate of Test:Mar. 28, 2019 ~ Apr. 22, 2019Test Sample:Engineering Sample No.: D190303120Standard(s):FCC Part 15, Subpart E (Section 15.407) / FCC 06-96FCC KDB 789033 D02 General U-NII Test Procedures NeFCC KDB 905462 D02 UNII DFS Compliance ProceduresFCC KDB 905462 D03 UNII Clients Without Radar Detectv01r02	ew Rules v02r01 s New Rules v02
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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-5-1903C316) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the UNII-2A, UNII-2C DFS Slave part.

2. EUT INFORMATION

2.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT				
Equipment	Notebook			
Brand Name	RAZER			
Test Model	RZ09-0300			
Series Model	N/A			
Model Difference(s)	N/A			
Software Version	Window 10			
Hardware Version	DA530_MB			
Operational Mode	Slave			
Operating Frequency Range	5250 MHz~5350 MHz & 5470 MHz~5725 MHz			
Modulation	OFDM			

Note: This device was functioned as a

Master Slave device without radar detection Slave device with radar detection

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)		
UNII	-2A	UNI	I-2A	UNI	I-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
52	5260	54	5270	58	5290	
56	5280	62	5310			
60	5300					
64	5320					

IEEE 80 IEEE 802.1 IEEE 802.11	1n (HT20)		11n (HT40) 1ac (VHT40)	IEEE 802.11	1ac (VHT80)	
UNII	-2C	UNII-2C		UNII-2C		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
100	5500	102	5510	106	5530	
104	5520	110	5550	122	5610	
108	5540	118	5590			
112	5560	126	5630			
116	5580	134	5670			
120	5600					
124	5620					
128	5640					
132	5660					
136	5680					
140	5700					

IEEE 802.11ac (VHT160)				
Channel	Frequency (MHz)			
50	5250			
114	5570			

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		BY5810-16-001-C	PIFA	IPEX	4.65
2	(ATC)	BY5810-16-002-C	PIFA	IPEX	4.69

Note: This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain =10log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})²/N]dBi, that is Directional gain= 10log[(10^{4.65/20}+10^{4.69/20})²/2]dBi =7.68. So, the UNII-1, UNII-2A, UNII-2C output power limit is 24-7.68+6=22.32, the UNII-3 output power limit is 30-7.68+6=28.32. The UNII-1, UNII-2A, UNII-2C power density limit is 11-7.68+6=9.32, the UNII-3 power density limit is 30-7.68+6=28.32.



2.2 CONDUCTED OUTPUT POWER AND EIRP

Table 2: The Conducted Output Power and EIRP List					
TX A Mode					
Frequency Band (MHz)	Max Couducted Output Power (dBm)	Directional Gain	Max EIRP (dBm)	Max EIRP (mW)	
5250~5350	19.06	7.68	26.74	472.063	
5470~5725	19.11	7.68	26.79	477.529	

TX N (HT40) Mode					
Frequency Band (MHz)	Max Couducted Output Power (dBm)	Directional Gain	Max EIRP (dBm)	Max EIRP (mW)	
5250~5350	18.18	7.68	25.86	385.478	
5470~5725	18.23	7.68	25.91	389.942	

TX AC (VHT80) Mode					
Frequency Band (MHz)	Max Couducted Output Power (dBm)	Directional Gain	Max EIRP (dBm)	Max EIRP (mW)	
5250~5350	17.31	7.68	24.99	315.500	
5470~5725	17.34	7.68	25.02	317.687	

TX AC (VHT160) Mode				
Frequency Band (MHz)	Max Couducted Output Power (dBm)	Directional Gain	Max EIRP (dBm)	Max EIRP (mW)
5150~5350	17.18	7.68	24.86	306.196
5470~5725	17.16	7.68	24.84	304.789



2.3 TRANSMIT POWER CONTROL (TPC)

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.

	Test Mode: UNII-2A / TX A Mode				
Channel Frequency	Output Power (TPC High)	Output Power (TPC Low)			
onannoi	(MHz)	(dBm)	(dBm)		
52	5260	19.06	13.06		
60	5300	19.06	13.06		
64	5320	19.02	13.02		

Test Mode: UNII-2A / TX N (HT20) Mode				
Channel Frequency	Output Power (TPC High)	Output Power (TPC Low)		
onannor	(MHz)	(dBm)	(dBm)	
52	5260	18.97	12.97	
60	5300	19.02	13.02	
64	5320	19.11	13.11	

	Test Mode: UNII-2A / TX N (HT40) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
	(MHz)	(dBm)	(dBm)		
54	5270	18.17	12.17		
62	5310	18.18	12.18		

	Test Mode: UNII-2A / TX AC (VHT20) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
onannoi	(MHz)	(dBm)	(dBm)		
52	5260	19.15	13.15		
60	5300	19.20	13.20		
64	5320	19.15	13.15		

Test Mode: UNII-2A / TX AC (VHT40) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)	
onanioi	(MHz)	(dBm)	(dBm)	
54	5270	18.56	12.56	
62	5310	18.55	12.55	

Test Mode: UNII-2A / TX AC (VHT80) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)	
onannor	(MHz)	(dBm)	(dBm)	
58	5290	17.31	11.31	



Test Mode: UNII-2A / TX AC (VHT160) Mode				
i i nannei i	Frequency	Output Power (TPC High)	Output Power (TPC Low)	
onamoi	(MHz)	(dBm)	(dBm)	
50	5250	17.18	11.18	

Test Mode: UNII-2C / TX A Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)	
(MI	(MHz)	(dBm)	(dBm)	
100	5500	19.01	13.01	
116	5580	19.05	13.05	
140	5700	19.11	13.11	

Test Mode: UNII-2C / TX N (HT20) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)	
	(MHz)	(dBm)	(dBm)	
100	5500	19.02	13.02	
116	5580	19.04	13.04	
140	5700	19.02	13.02	

	Test Mode: UNII-2C / TX N (HT40) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
e name	(MHz)	(dBm)	(dBm)		
102	5510	18.11	12.11		
110	5550	18.11	12.11		
134	5670	18.23	12.23		

Test Mode: UNII-2C / TX AC (VHT20) Mode				
Channel Frequency (MHz)	Output Power (TPC High)	Output Power (TPC Low)		
	(dBm)	(dBm)		
100	5500	19.19	13.19	
116	5580	19.17	13.17	
140	5700	19.14	13.14	

	Test Mode: UNII-2C / TX AC (VHT40) Mode							
Channel	Frequency Output Power (TPC High)		Output Power (TPC Low)					
onanner	(MHz)	(dBm)	(dBm)					
102	5510	18.58	12.58					
110	5550	18.53	12.53					
134	5670	18.59	12.59					





Test Mode: UNII-2C / TX AC (VHT80) Mode						
Channel	Frequency Output Power (TPC High)		Output Power (TPC Low)			
	(MHz)	(dBm)	(dBm)			
106	5530	17.34	11.34			
122	5610	17.20	11.2			

Test Mode: UNII-2C / TX AC (VHT160) Mode						
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)			
onannoi	(MHz)	(dBm)	(dBm)			
114	5570	17.16	11.16			



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 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	\checkmark	\checkmark	\checkmark		
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	\checkmark	~		
Channel Move Time	\checkmark	\checkmark	✓		
U-NII Detection Bandwidth	~	Not required	\checkmark		



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 Transmit Power	Value	
	(See Notes 1 and 2)	
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.

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 UNII 99% transmission power bandwidth. See Note 3.

Table 6: DFS Response Requirement Values

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 7. SHULL FUIS	e Rauar rest waveron	115.	
Radar Pulse	PRI	Number of Pulses	Minimum	Minimum
Type Width	(µsec)		Percentage of	Number
(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 5aTest B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values	$\operatorname{Roundup} \begin{cases} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{\operatorname{PRI}_{\mu \operatorname{sec}}}\right) \end{cases}$	60%	30
2 1-5	selected in Test A 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 Ty		12-10	80%	120
Aggregate (Radar IV	JCS [-4]		00%	120

Table 7: 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 closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.



	Table 8: 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

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 9: Frequency Hopping 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
6	1	333	9	0.333	300	70%	30

4. TEST INSTRUMENTS

Table 10: To	est Instruments List.
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DESCRIPTION	MANUFACTURER	MODEL NO.	Serial No	Calibration Until
EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 10, 2020
Signal Generator	Agilent	E4438C	MY49071316	Mar. 10, 2020
POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Mar. 10, 2020
POWER SPLITTER	Mini-Circuits	ZN4PD1-63-S+	SF9335D1045-1	Mar. 10, 2020
Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 12, 2020
Wi-Fi Router	tp-link	Archer AX6000	N/A	N/A

Note:

- (1) Calibration interval of instruments listed above is one year.
- (2) Wi-Fi Router's FCC ID: TE7AX6000



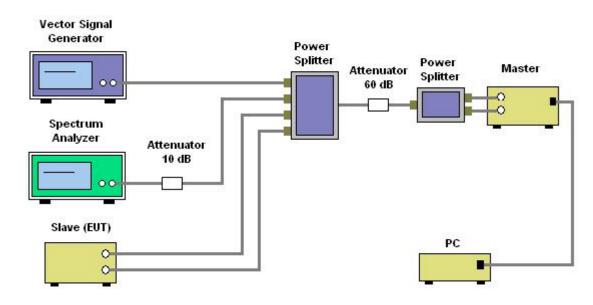
5. DYNAMIC FREQUENCY SELECTION (DFS) TEST

5.1 DFS MEASUREMENT SYSTEM

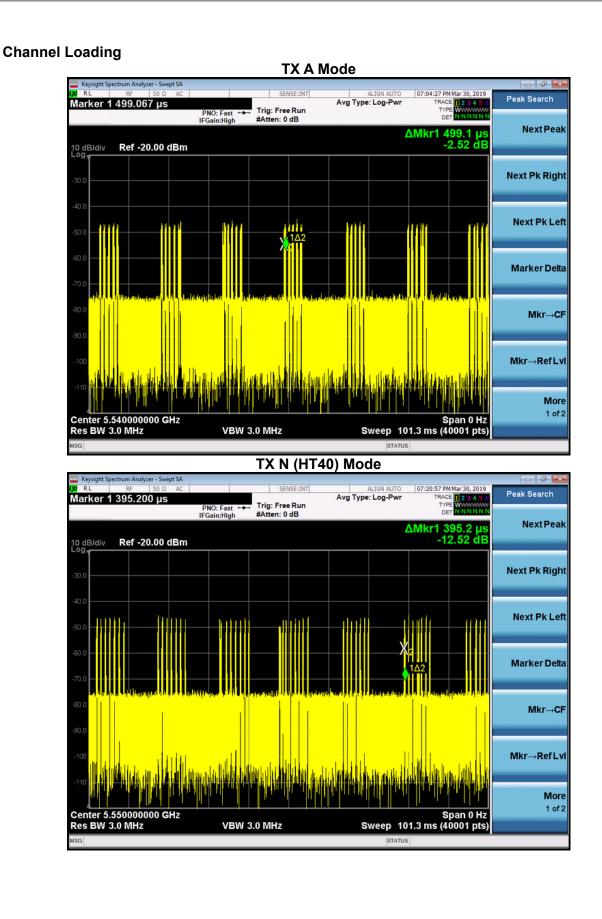
Test Precedure

- 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

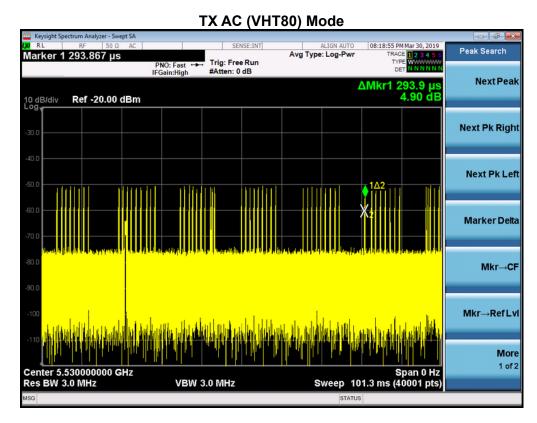




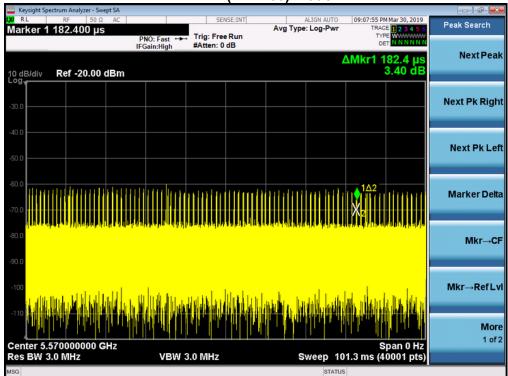


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TX AC (VHT160) Mode



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Channel (MHz)	Marker Delta (ms)	Number	On Time (ms)	Total Time (ms)	Duty cycle (%)	Limit (%)
5540	0.4991	35	17.4685	101.3	17.24	17.00
5550	0.3952	45	17.784	101.3	17.56	17.00
5530	0.2939	60	17.634	101.3	17.41	17.00
5570	0.1824	100	18.24	101.3	18.01	17.00



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.



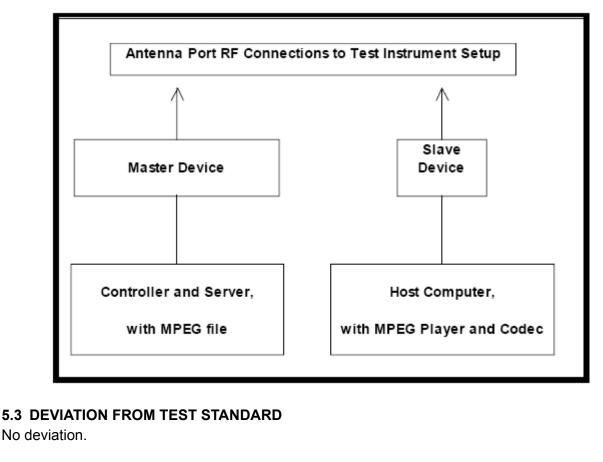
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

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.





6. TEST RESULTS

6.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Test Mode and Channel	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	TX A Mode 5540 MHz TX N (HT40) Mode 5550 MHz TX AC (VHT80) Mode 5530 MHz TX AC (VHT160) Mode 5570 MHz	Applicable	Pass
15.407	Channel Closing Transmission Time	TX A Mode 5540 MHz TX N (HT40) Mode 5550 MHz TX AC (VHT80) Mode 5530 MHz TX AC (VHT160) Mode 5570 MHz	Applicable	Pass
15.407	Non- Occupancy Period	TX A Mode 5540 MHz TX N (HT40) Mode 5550 MHz TX AC (VHT80) Mode 5530 MHz TX AC (VHT160) Mode 5570 MHz	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)

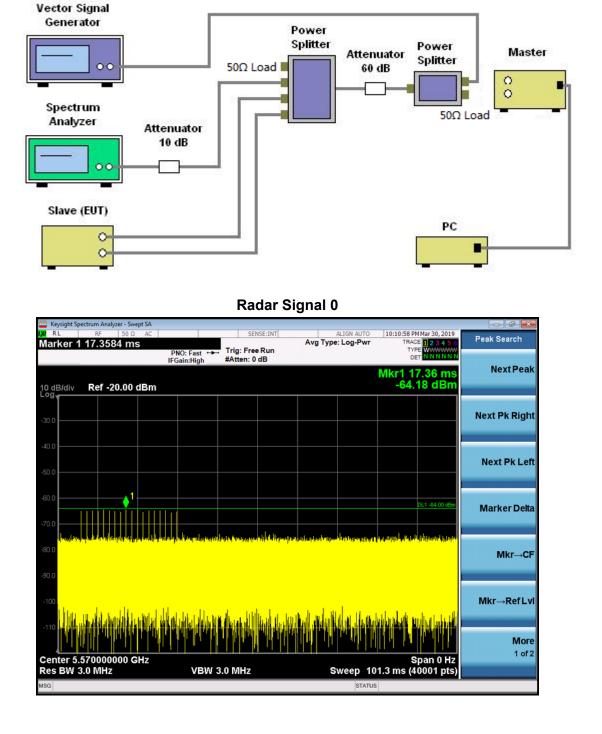


6.3 DFS DETECTION THRESHOLD

Calibration:

The EUT is slave equipment and it with the lowest gain is 4.65 dBi. For a detection threshold level of -64dBm and the master antenna gain is 2.28 dBi, required detection threshold is -61.72 dBm (= -64+2.28).

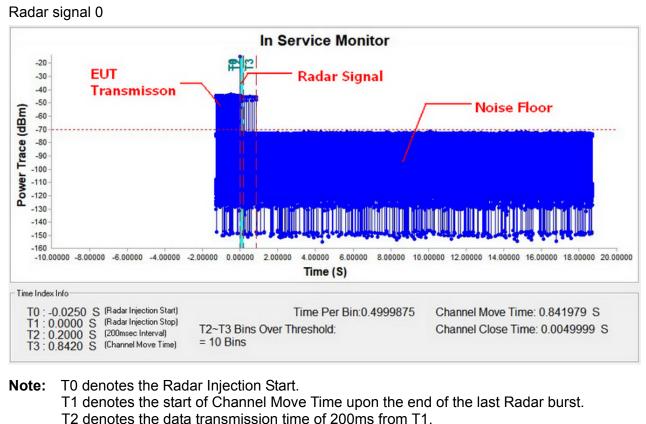
Note: Maximum Transmit Power is more than 200 milliwatt in this report, so detection threshold level is -64dBm.



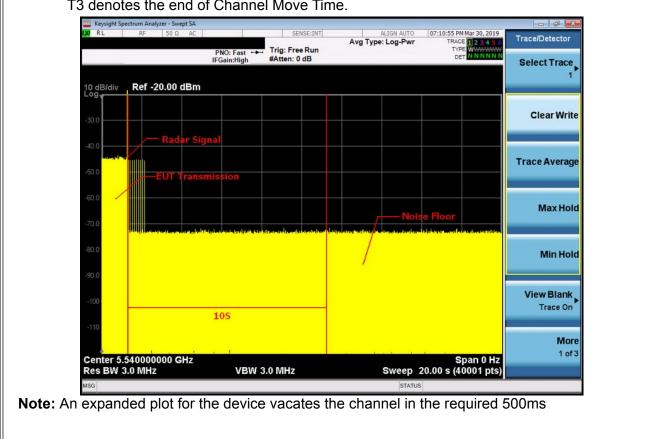


6.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

TX A Mode



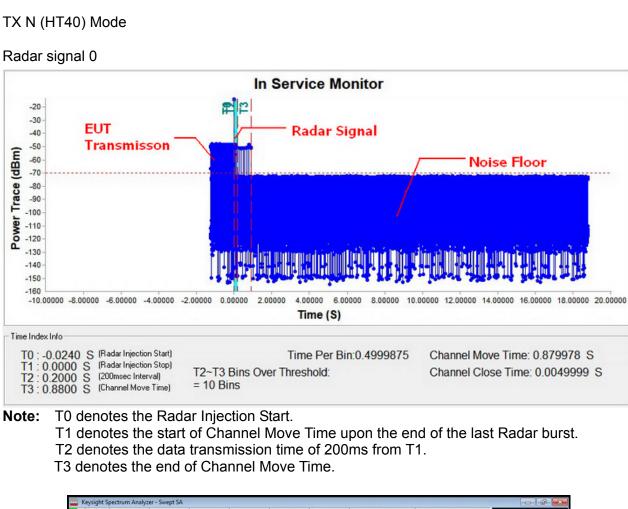
T3 denotes the end of Channel Move Time.

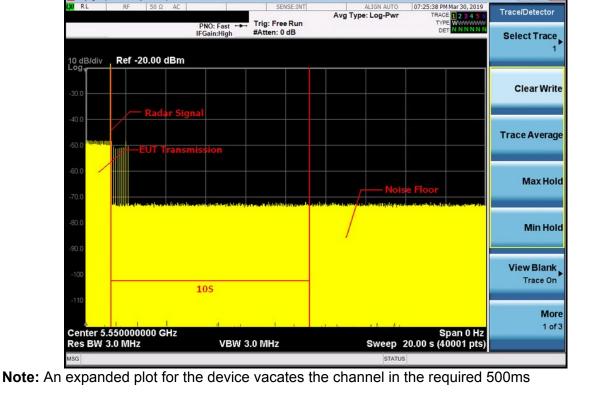


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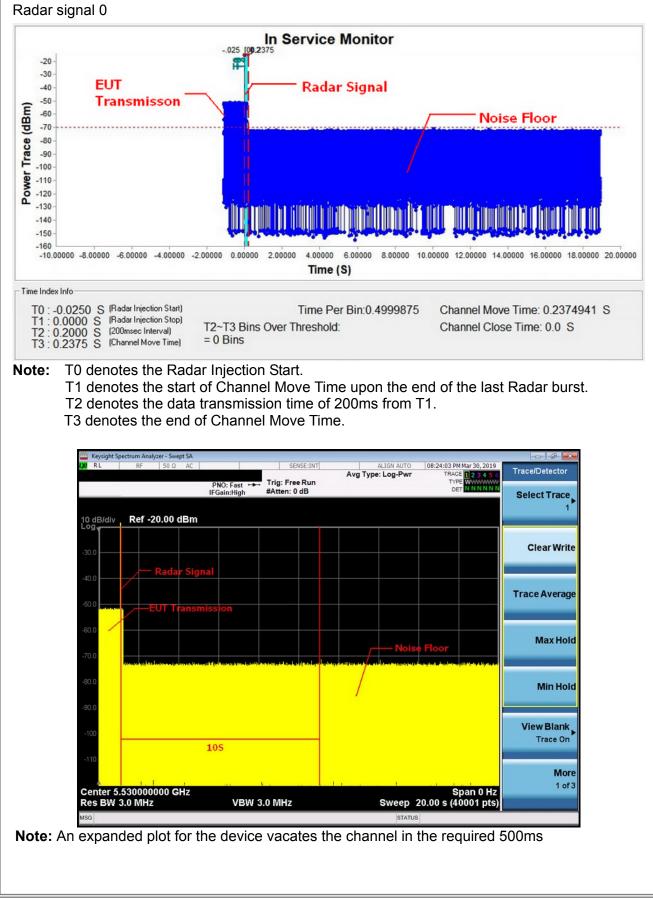






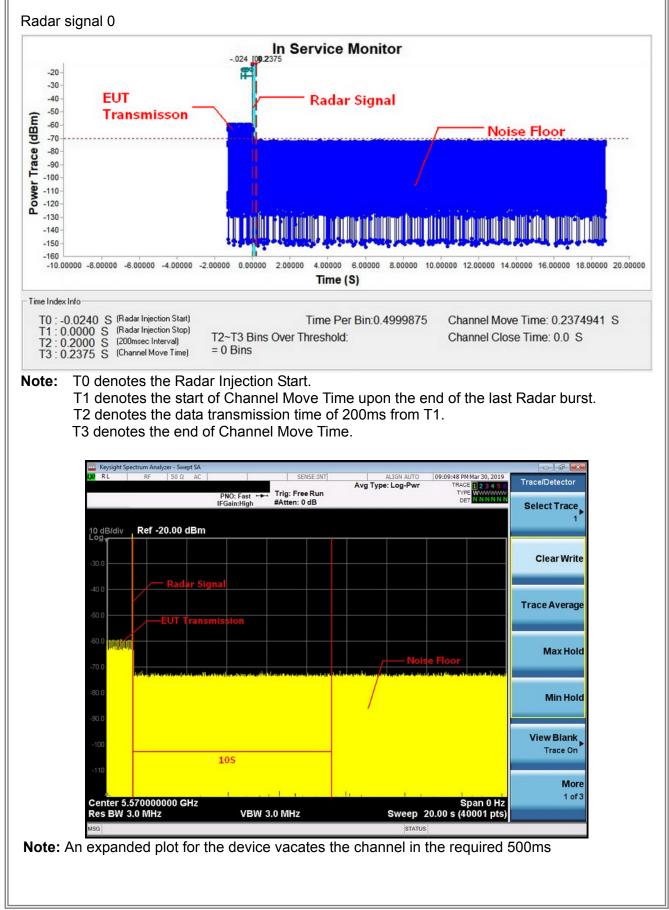


TX AC (VHT80) Mode











TX A Mode			
Item	Measured Value(s)	Limit(s)	
Channel Move Time	0.841979	10	
		200 milliseconds + an aggregate	
Channel Close Time	0.0049999	of 60 milliseconds over remaining	
		10 second period	

TX N (HT40) Mode			
Item Measured Value(s)		Limit(s)	
Channel Move Time	0.879978	10	
		200 milliseconds + an aggregate of	
Channel Close Time	0.0049999	60 milliseconds over remaining 10	
		second period	

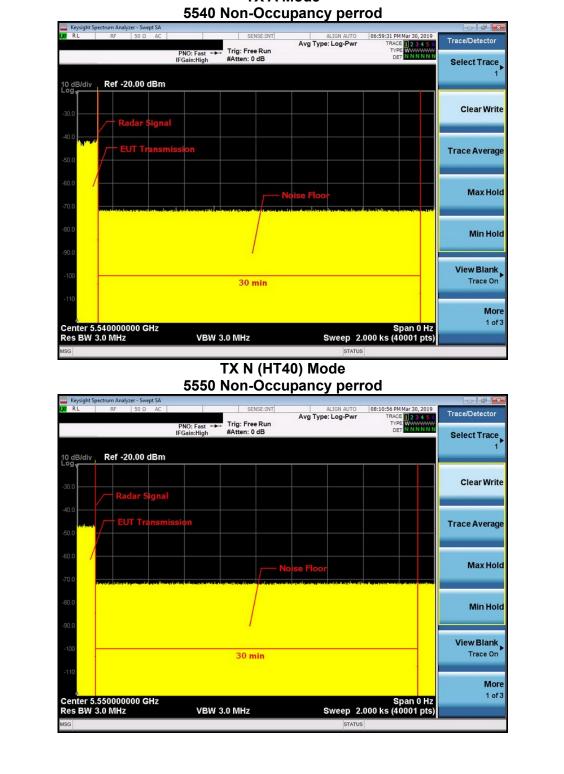
TX AC (VHT80) Mode			
Item Measured Value(s)		Limit(s)	
Channel Move Time 0.2374941		10	
		200 milliseconds + an aggregate of	
Channel Close Time	0.0	60 milliseconds over remaining 10	
		second period	

TX AC (VHT160) Mode			
Item	Measured Value(s)	Limit(s)	
Channel Move Time	0.2374941	10	
		200 milliseconds + an aggregate of	
Channel Close Time	0.0	60 milliseconds over remaining 10	
		second period	



6.5 NON- OCCUPANCY PERIOD

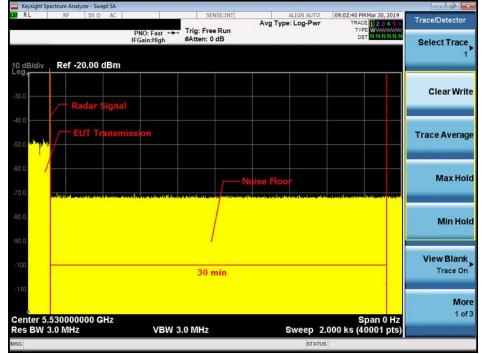
During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.



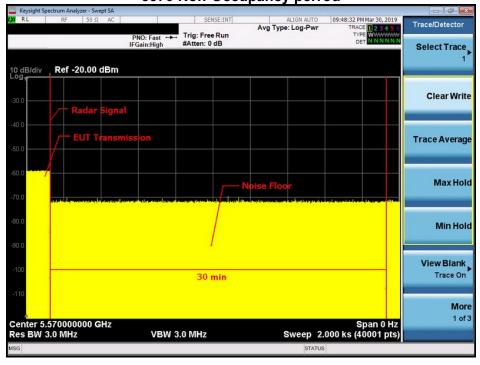
TX A Mode



TX AC (VHT80) Mode 5530 Non-Occupancy perrod



TX AC (VHT160) Mode 5570 Non-Occupancy perrod



End of Test Report

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