

FCC 15.407 NII DFS Test Report

for

Amino Communications Ltd.

**Buckingway Business Park, Anderson Road
Swaveeasy Cambridgeshire CB24 4UQ, United Kingdom**

Product Name : IPTV STB/PVR
Model Name : Kamai YYYYYYYYYYYY
Brand amino
FCC ID : XVG500144BCBT

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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APPENDIX A TEST PHOTOGRAPHS

TEST REPORT CERTIFICATION

Applicant : Amino Communications Ltd.

Manufacturer : Xavi Technologies Corp.

EUT Description

(1) Product : IPTV STB/PVR
(2) Model : Kamai XYYYYYYYYYYYY
(3) Brand : amino
(4) Power Rating : DC 12V

Applicable Standards:

47 CFR FCC Part 15 Subpart E

ANSI C63.10:2013

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

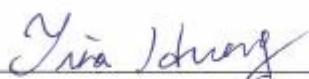
KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r01

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2018. 09. 20

Reviewed by:



(Tina Huang/Administrator)

Approved by:



(Ben Cheng/Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2018. 09. 20	Original Report	EM-F180129

2. SUMMARY OF TEST RESULTS

Description	Results
Channel Availability Check Time	N/A
Channel Move Time	PASS
Non-Occupancy Period	PASS
Non-Associated Client Beacon	PASS
Channel Closing Transmission Time	PASS
U-NII Detection Bandwidth	N/A
N/A is an abbreviation for Not Applicable, sine the product is client without radar detection function	

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Amino Communications Ltd. Buckingway Business Park, Anderson Road Swaveeasy Cambridgeshire CB24 4UQ, United Kingdom
Manufacturer	Xavi Technologies Corp. No. 468, Gu tang Road, Wu jiang city, Jiangsu province
Product	IPTV STB/PVR
Model	Kamai XYYYYYYYYYYY (Where "X" can be 6, 7, 8 or blank; "YYYYYYYYYYYY" can be any combination of 0~9, A~Z, -, /, or blank; for marketing purpose only)
Brand	amino

3.2. Description of EUT

Test Model	Kamai 7B																								
Serial Number	N/A																								
Power Rating	DC 12V																								
RF Features	WLAN:802.11 a/n/ac																								
Transmit Type	<table border="1"><tr><td colspan="2">2.4 GHz</td></tr><tr><td>BT/BLE</td><td>1T1R</td><td></td></tr><tr><td rowspan="5">UNII Bands</td><th>Mode</th><th></th></tr><tr><th>CDD</th><th>SDM</th></tr><tr><td>802.11a</td><td>4T4R</td><td>---</td></tr><tr><td>802.11n-HT20/ 802.11ac-VHT20</td><td>4T4R</td><td>4T4R</td></tr><tr><td>802.11n-HT40/ 802.11ac-VHT40</td><td>4T4R</td><td>4T4R</td></tr><tr><td>802.11ac-VHT80</td><td>4T4R</td><td>4T4R</td></tr></table>			2.4 GHz		BT/BLE	1T1R		UNII Bands	Mode		CDD	SDM	802.11a	4T4R	---	802.11n-HT20/ 802.11ac-VHT20	4T4R	4T4R	802.11n-HT40/ 802.11ac-VHT40	4T4R	4T4R	802.11ac-VHT80	4T4R	4T4R
2.4 GHz																									
BT/BLE	1T1R																								
UNII Bands	Mode																								
	CDD	SDM																							
	802.11a	4T4R	---																						
	802.11n-HT20/ 802.11ac-VHT20	4T4R	4T4R																						
	802.11n-HT40/ 802.11ac-VHT40	4T4R	4T4R																						
802.11ac-VHT80	4T4R	4T4R																							
This device not support beamforming mode.																									
Device Category	<input type="checkbox"/> Outdoor Access Point <input type="checkbox"/> Fixed point-to-point Access Point <input type="checkbox"/> Indoor Access Point <input checked="" type="checkbox"/> Mobile and Portable client device																								
Sample Status	Production																								
Date of Receipt	2018. 03. 05																								
Date of Test	2018. 04. 18 ~ 09. 19																								
Interface Ports of EUT	<ul style="list-style-type: none">DC power In Port x1S/PDIF optical output Port x1USB 3.0 Port x1HDMI Port x1Ethernet Port x1Analogue A/V Output Port x1																								
Accessories Supplied	<ul style="list-style-type: none">AC/DC AdapterRemote Control3.5mm jack to 3x RCA CableHDMI Cable																								

3.3. Antenna Information

WLAN Antenna					
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	Ant 5G-1	Waisin Technology Corporation	PCB Antenna	5150-5850	2.36
2	Ant 5G-2				2.31
3	Ant 5G-3				2.13
4	Ant 5G-4				2.35

BT/BLE Antenna					
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	---	---	PCB Antenna	2400-2500	1.4

3.4. EUT Specifications Assessed in Current Report

Mode	UNII Band	Fundamental Range (MHz)	Channel Number
802.11a	II-2A	5260-5320	4
	II-2C	5500-5700	11
802.11n-HT20/ 802.11ac-VHT20	II-2A	5260-5320	4
	II-2C	5500-5700	11
802.11n-HT40/ 802.11ac-VHT40	II-2A	5270-5310	2
	II-2C	5510-5670	5
802.11ac-VHT80	II-2A	5290	1
	II-2C	5530-5610	2

Remark: UNII Band II-2A and II-2C (DFS Function, Slave/no In service monitor, no Ad-Hoc mode)

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 288.9
802.11n-HT40		Up to 600
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 346.8
802.11ac-VHT40		Up to 800
802.11ac-VHT80		Up to 1733.2

3.5. Descriptions of Key Components

Item	Supplier	Model/Type	Description
AC/DC Adapter	MOSO	MSA-C2000IS 12.0-24Y-DE	Input: 100-240V~, 50/60Hz, 0.7A max. Output: DC 12V, 2A
Remote Control	N/A	N/A	N/A

3.6. Test Configuration

Item	Bandwidth	Test Channel
Channel Move Time & Channel Closing Transmission Time	20MHz	52/100
	40MHz	54/102
	80MHz	58/106
Non-Occupancy Period & Non-associated Test	20MHz	52/100
	40MHz	54/102
	80MHz	58/106

3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	Approval
1.	Cisco Aironet 1800 Series Access Points	CISCO	AIR-AP1852	N/A	FCC ID: LDK102095 IC: 2461B-102095

3.7.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	Power Injector: DPSN-35FBA LAN Cable : Unshielded, Detachable, 1.0m Power Cable : Unshielded, Detachable, 1.8m

3.8. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 (1) RF Test Room

3.9. Measurement Uncertainty

Test Item	Uncertainty
DFS Measurement	±0.5ms
Threshold	±0.33dB

4. MEASUREMENT EQUIPMENT LIST

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Vector Signal Generation	R&S	SMU200A	104893	2017. 06. 28	1 Year
					2018. 06. 27	1 Year
2.	Spectrum Analyzer	R&S	FSV30	101181	2017. 07. 10	1 Year
					2018. 07. 12	1 Year
3.	Attenuator (10dB) X2	Worken	WK0602-10	0120A02208 001S	N.C.R	N.C.R
4.	Attenuator (30dB) X2	Worken	WK0602-30	0120A02208 002S	N.C.R	N.C.R

5. WORKING MODES AND REQUIREMENT TEST ITEM

5.1. Applicability of DFS Requirements Prior To Use A Channel

Requirement	Operational Mode		
	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
Uniform Spreading	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

5.2. Applicability of DFS Requirements During Normal Operation

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

6. DFS DETECTION THRESHOLDS AND RADAR TEST

WAVEFORMS

6.1. Interference Threshold Value, Master or Client Incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64dBm
< 200 milliwatt	-62dBm

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.

The radar Detection Threshold, lowest antenna gain is the parameter of interference radar DFS detection threshold.

6.2. Radar Test Waveform Minimum Step

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

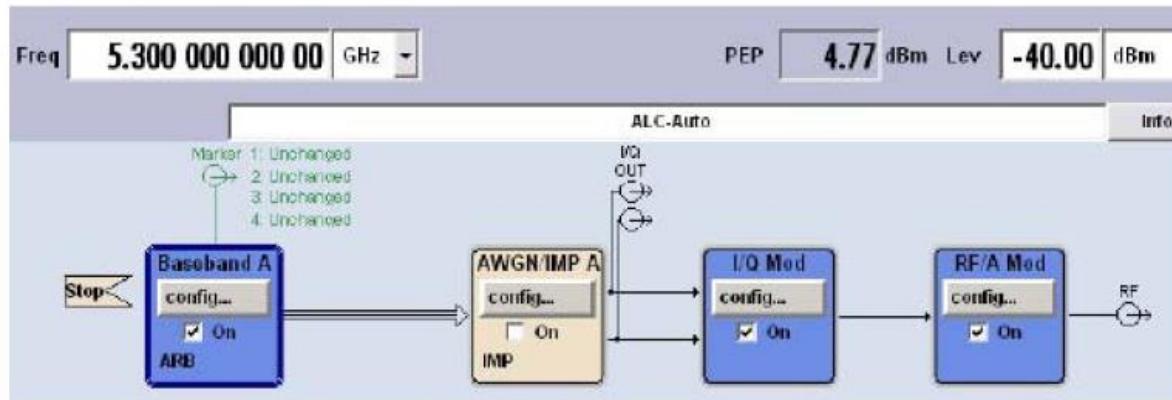
6.3. Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulse	Minimum Percentage of Successful Detection	Minimum number of Trials
0	1	1428	18	See Note 1	See Note 1
1A	1	15 unique PRI in KDB 905462 D02 Table 5a	$Roundup\left(\left(\frac{1}{360}\right) \times \left(\frac{19 \times 10^6}{PRI}\right)\right)$	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI		60%	15
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

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

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. 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. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

FCC Radar Types (1~4) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

B11: Base-band Generator with ARB (16M samples) and Digital Modulation

B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

6.4. Long Pulse Radar Test Waveforms

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

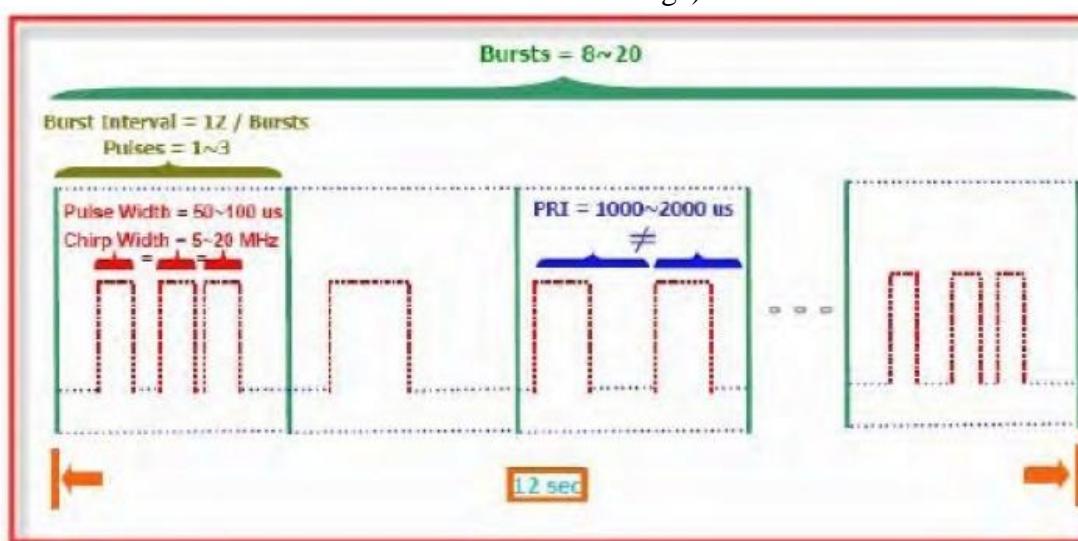
The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms. Each waveform is defined as following:

- (1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- (2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst_Count.
- (3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- (4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.

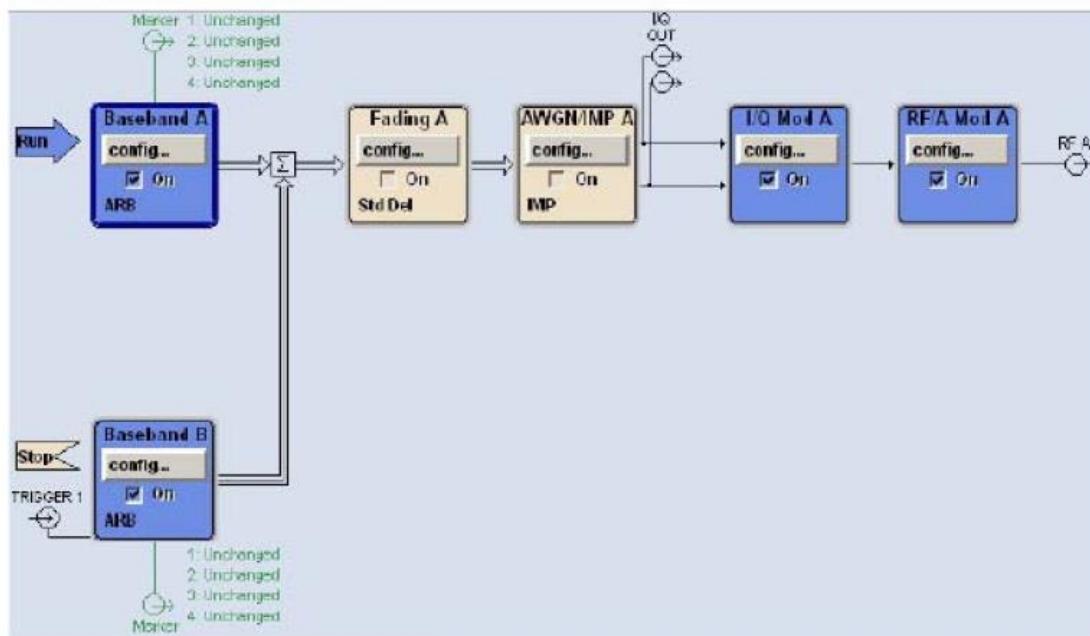
- (5) Each pulse has a linear FM chirp between 5 and 20MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Burst may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300MHz and a 20MHz chirped signal, the chirp starts at 5290MHz and ends at 5310MHz.
- (6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- (7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length $(12000000/Burst_Count)$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12000000/Burst_Count)-(Total\ Burst\ length)+(One\ Random\ PRI\ interval)]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

A representative example of a Long Pulse radar test waveform:

- (1) The total test signal length is 12 seconds.
- (2) 8 Bursts are randomly generated for the Burst_Count.
- (3) Burst 1 has 2 randomly generated pulses.
- (4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- (5) The PRI is randomly selected to be at 1213 microseconds.
- (6) Bursts 2 through 8 are generated using steps 3-5.
- (7) Each Burst is contained in even intervals of 1500000 microseconds. The starting location for Pulse 1. Burst 1 is randomly generated (1 to 1500000 minus the total Burst 1 length + 1 random PRI interval) at the 325001 microsecond step. Bursts 2 through 8 randomly fall in successive 1500000 microsecond intervals (i.e. Burst 2 falls in the 1500001-3000000 microsecond range).



FCC Radar Types (5) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

Path A/Path B Two B11: Base-band Generator with ARB (16M samples) and Digital Modulation

B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

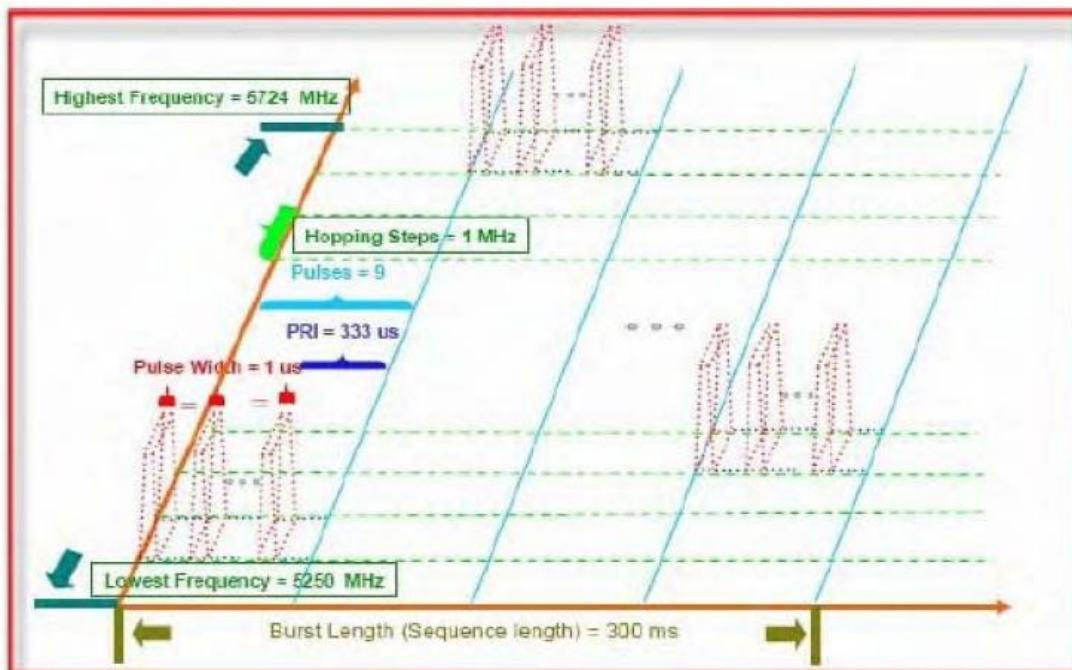
For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

6.5. Frequency Hopping Pulse Radar Test Waveforms

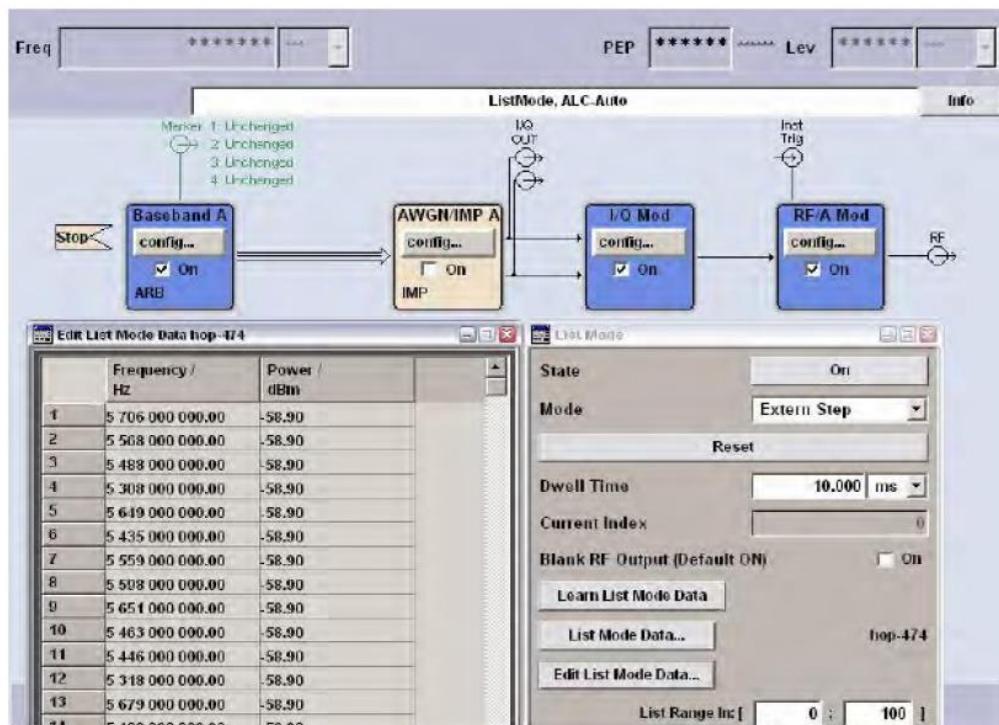
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250-5274MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of random frequency, the frequencies remaining within the group are always treated as equally likely.



FCC Radar Types (6) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

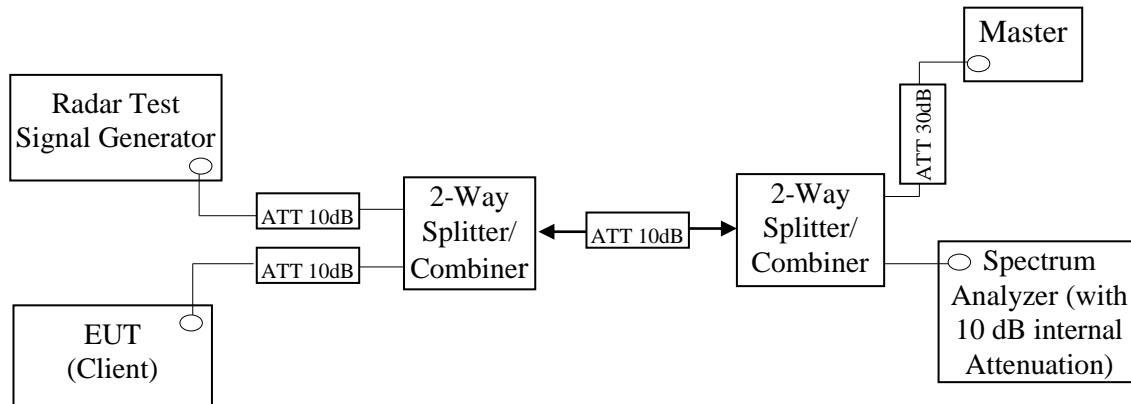
B11: Base-band Generator with ARB (16M samples) and Digital Modulation

B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

6.6. Conducted Calibration Setup



6.7. Radar Waveform Calibration Procedure

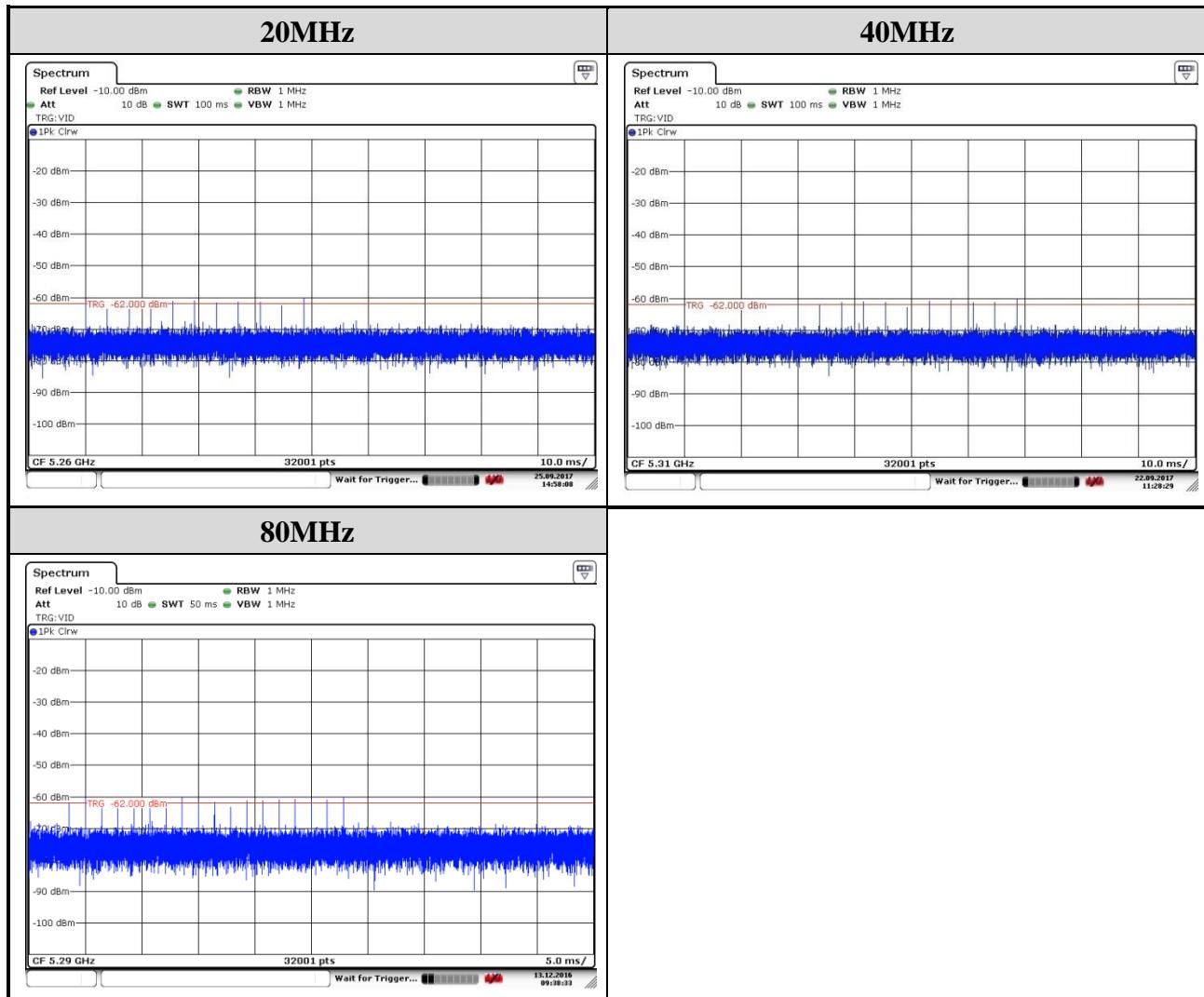
The measured frequency is 5260MHz, 5310MHz and 5290MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated conducted detection threshold level is set to -62dBm. The tested level is lower than required level hence it provides margin to the limit.

6.8. Calibration Deviation

There is no deviation with the original standard.

6.9. Radar Waveform Calibration Result

DFS detection threshold level and the burst of pulses on the Channel frequency

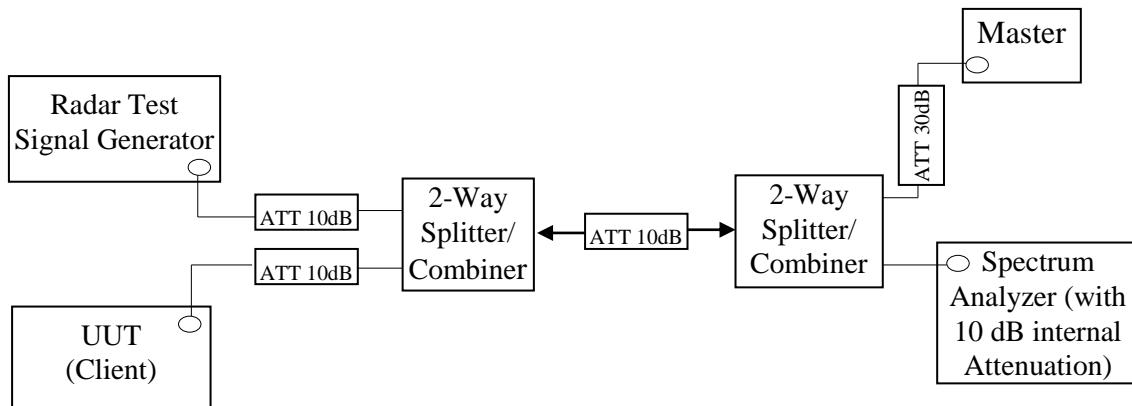


7. TEST SETUP AND TEST RESULT

7.1. Test Setup

7.1.1. Test Setup Diagram

Following is the test setup for generated the radar waveforms and used to monitor UNII device.



7.1.2. Test Setup Operation

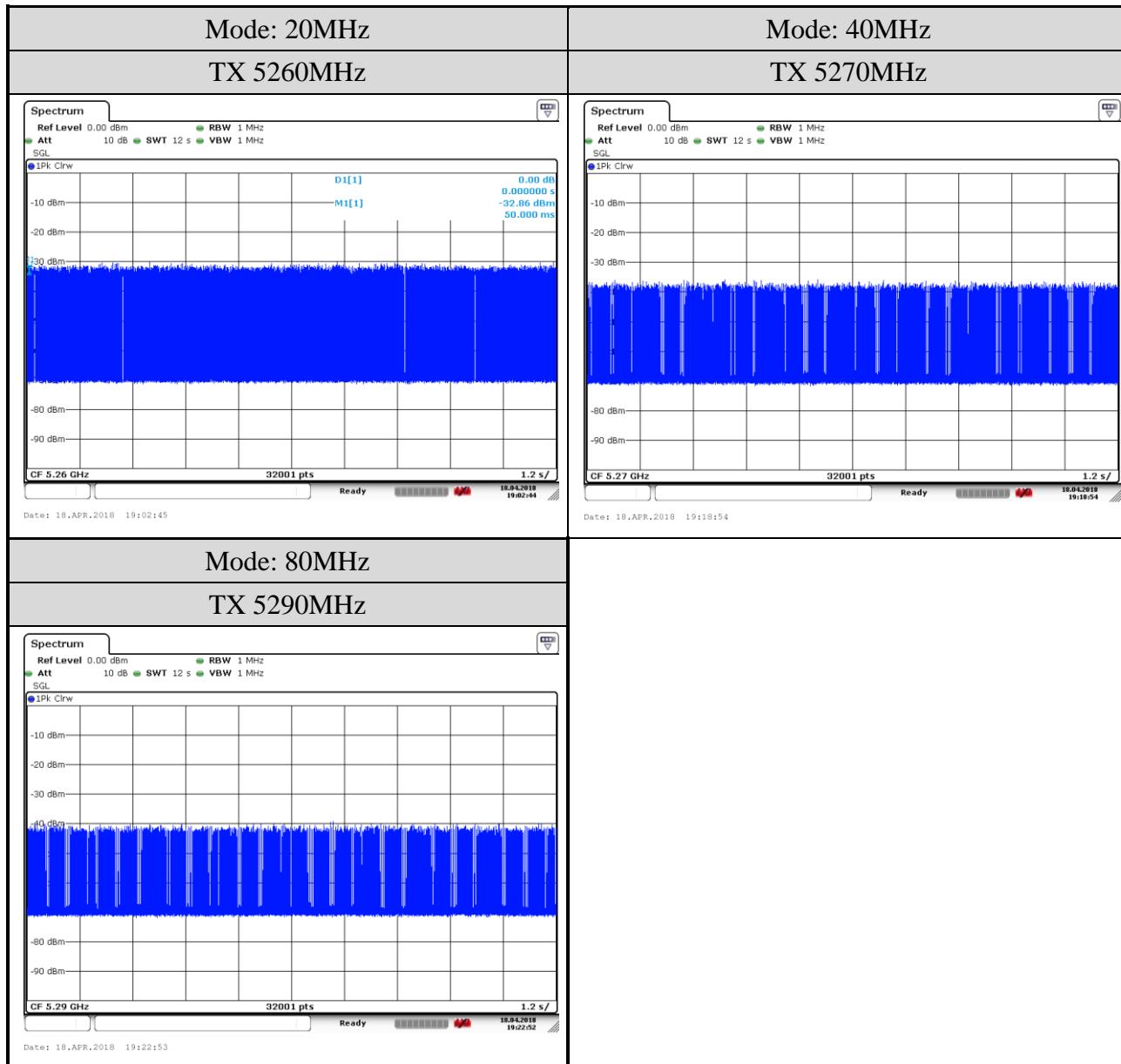
System testing was performed with the designated MPEG test file that streams full motion video from the Access Point to Client in full motion video mode using the media player with the V2.61 Codec package. This file is used by IP and Frame based systems for loading the test channel during the in-service compliance testing of the U-NII device.

The waveform parameters from within the bounds of the signal type are selected randomly using uniform distribution.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

7.1.3. Test Setup for Data Traffic Plot

Test Date	2018/04/18	Temp./Hum.	25°C/48%
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7.2. Channel Move Time, Channel Closing Transmission Time, Non-Occupancy Period, Non-Associated Client Beacon Measurement

7.2.1. Limit

Parameter	Value
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.
Non-Occupancy Period	Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel
Non-Associated Client Beacon	The non-associated Client Beacon Test is during the 30 minutes observation time. The EUT should not make any transmissions in the DFS band after EUT power up.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- a. For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- b. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- c. 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.

7.2.2. Test Procedures

- When a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the operating channel of the U-NII device. A U-NII device operating as a Client Device will associate with the Master of channel. Stream the MPEG test file from the Master Device to the Client Device on the selected channel for entire period of the test. At time to the radar waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
- Observe the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions from the EUT during the observation time [Channel Move Time]. One 10 Second plot bee reported for the short Pulse Radar type 1-4 and one for the Long Pulse Radar Type test in a 22 second plot. The plot for the Short Pulse Radar types start at the end of the radar burst. The Channel Move Time will be calculated based on the plot of the short Pulse Radar Type. The Long Pulse Radar Type plot show the device ceased transmissions within the 10 second window after detection has occurred. The plot for the Long Pulse Radar type should start at the beginning of the 12 second waveform.
- Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume only transmissions on this channel.

DFS Detection threshold

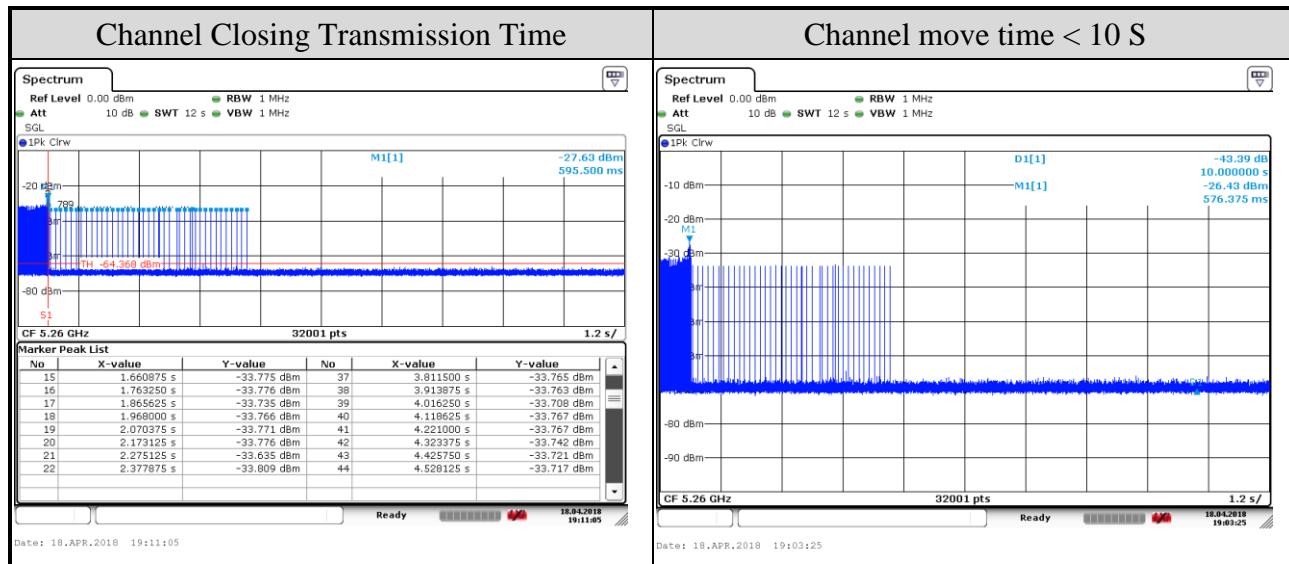
Channel	Value
EIRP	362.242mW
DFS Detection thresholds applied	-64dBm
Additional Level (dB)	1
DFS Detection thresholds applied	-63dBm

The max conducted power is 23.46dBm; Antenna gain is 2.13dBi.

EIRP = 25.59dBm = 362.242mW

7.2.4. Test Result for Channel Closing Transmission Time & Channel Move Time

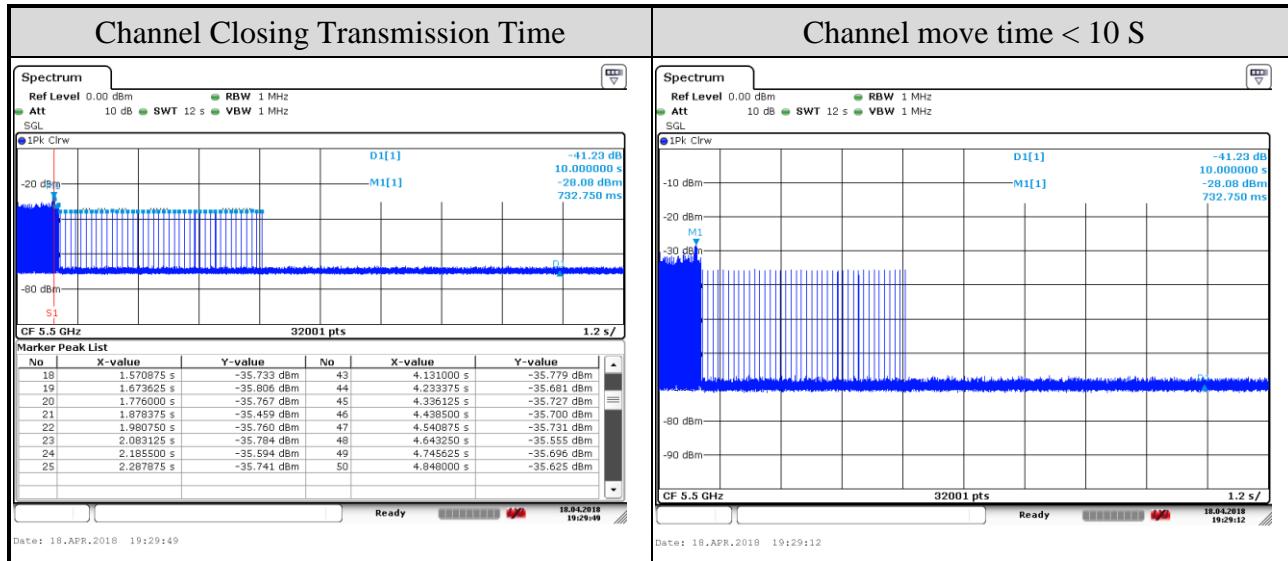
Test Date	2018/04/18	Temp./Hum.	24°C/48%
Test Mode	20MHz	Frequency	TX 5260MHz



Channel Closing Transmission Time Calculated				
Sweep Time(S) sec	12			
Sweep points (P)	32001			
Number of Sweep points in 10 sec (N)	44			
Channel Closing Time (C) ms	16.50			

Channel closing time is calculated from $C=N \times \text{dwell}$; where dwell is the occupancy time per sweep point calculated by the formula: dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

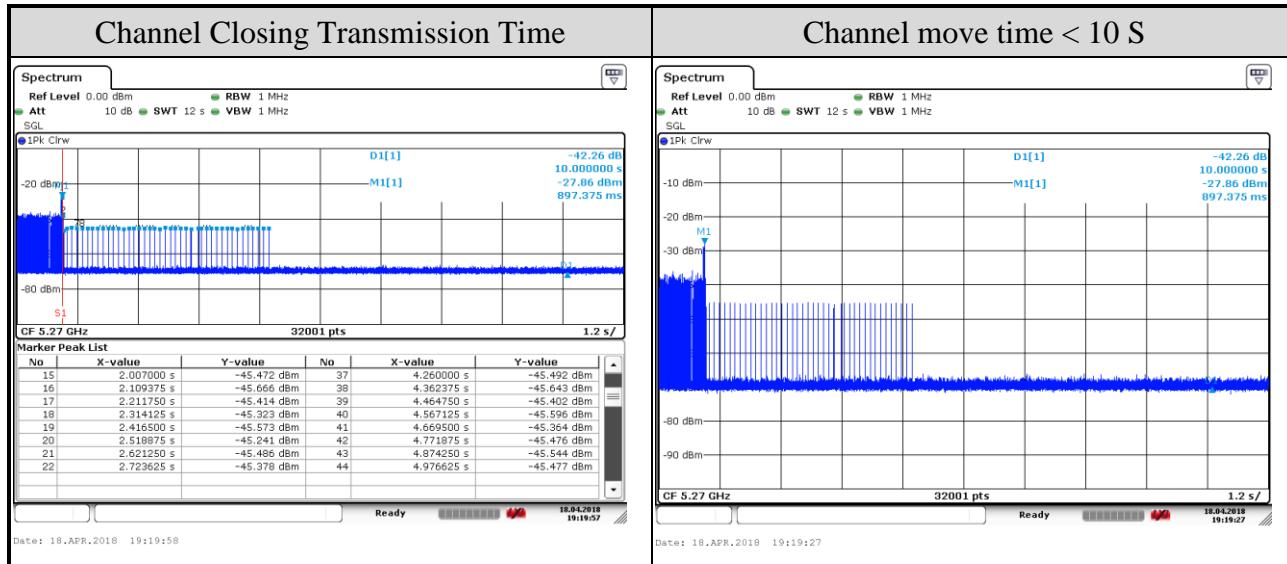
Test Date	2018/04/18	Temp./Hum.	24°C/48%
Test Mode	20MHz	Frequency	TX 5500MHz



Channel Closing Transmission Time Calculated					
Sweep Time(S) sec	12				
Sweep points (P)	32001				
Number of Sweep points in 10 sec (N)	50				
Channel Closing Time (C) ms	18.75				

Channel closing time is calculated from $C=N \times \text{dwell}$; where dwell is the occupancy time per sweep point calculated by the formula: dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

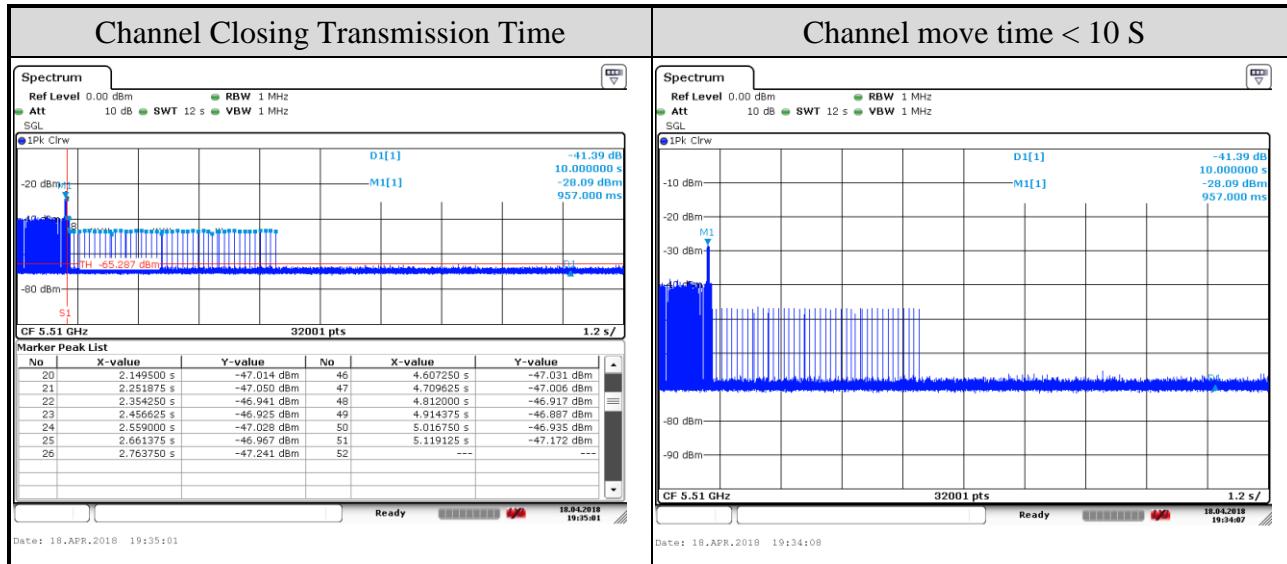
Test Date	2018/04/18	Temp./Hum.	24°C/48%
Test Mode	40MHz	Frequency	TX 5270MHz



Channel Closing Transmission Time Calculated					
Sweep Time(S) sec	12				
Sweep points (P)	32001				
Number of Sweep points in 10 sec (N)	44				
Channel Closing Time (C) ms	16.50				

Channel closing time is calculated from $C=N \times \text{dwell}$; where dwell is the occupancy time per sweep point calculated by the formula: dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

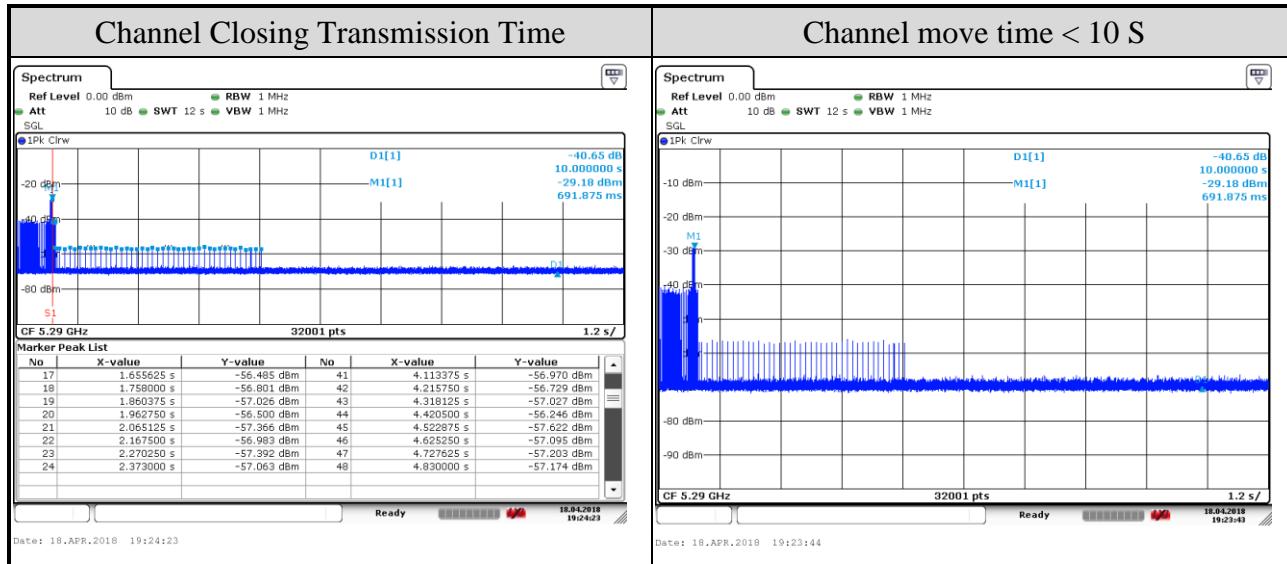
Test Date	2018/04/18	Temp./Hum.	24°C/48%
Test Mode	40MHz	Frequency	TX 5510MHz



Channel Closing Transmission Time Calculated	
Sweep Time(S) sec	12
Sweep points (P)	32001
Number of Sweep points in 10 sec (N)	51
Channel Closing Time (C) ms	19.12

Channel closing time is calculated from $C=N \times \text{dwell}$; where dwell is the occupancy time per sweep point calculated by the formula: dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

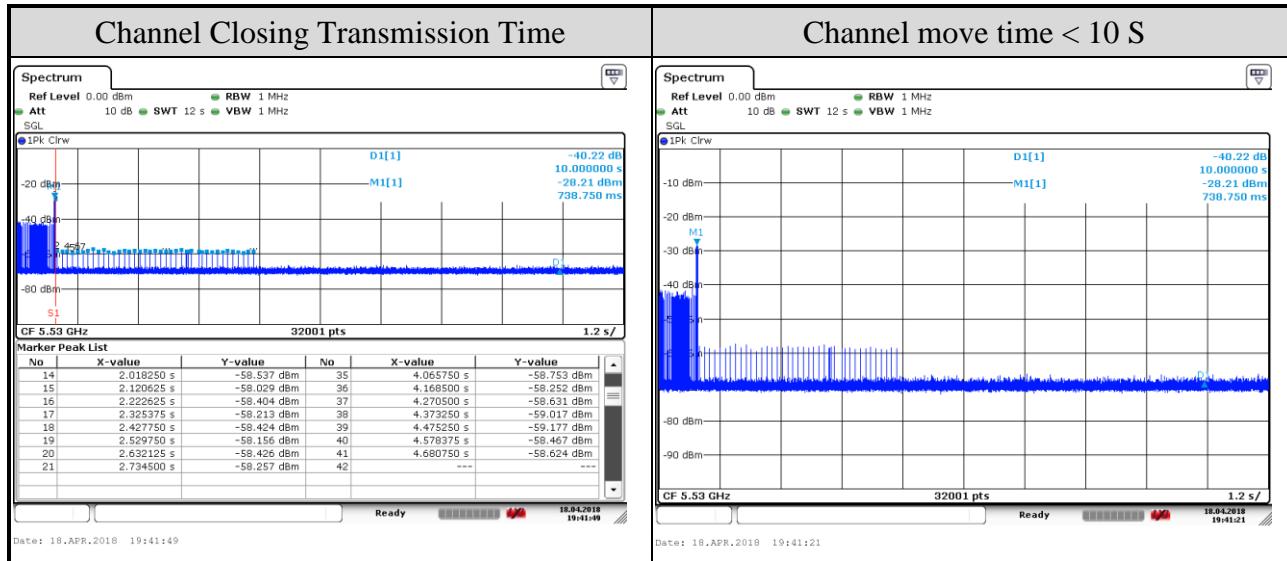
Test Date	2018/04/18	Temp./Hum.	24°C/48%
Test Mode	80MHz	Frequency	TX 5290MHz



Channel Closing Transmission Time Calculated	
Sweep Time(S) sec	12
Sweep points (P)	32001
Number of Sweep points in 10 sec (N)	48
Channel Closing Time (C) ms	18.00

Channel closing time is calculated from $C=N \times \text{dwell}$; where dwell is the occupancy time per sweep point calculated by the formula: dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

Test Date	2018/04/18	Temp./Hum.	24°C/48%
Test Mode	80MHz	Frequency	TX 5530MHz

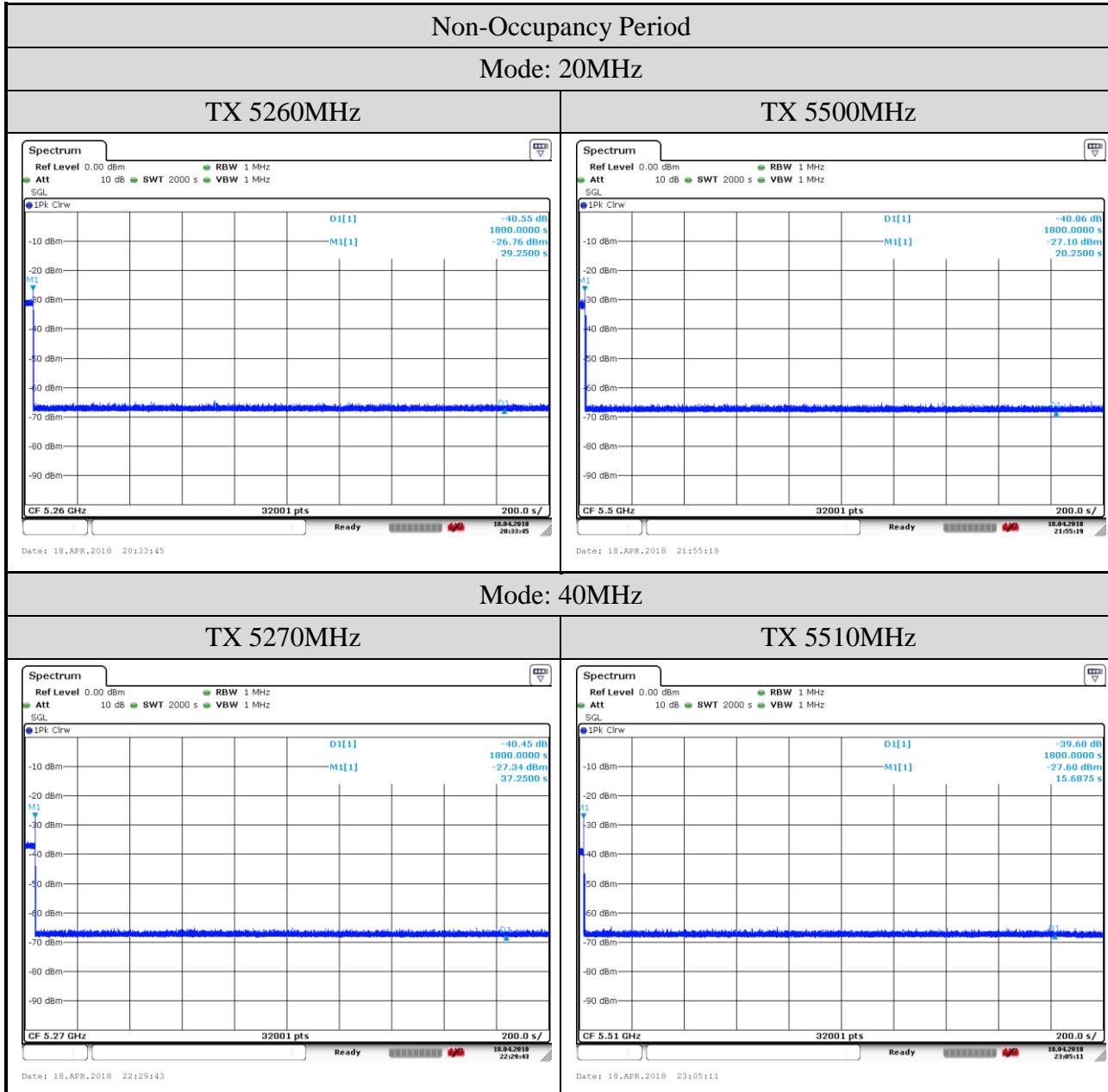


Channel Closing Transmission Time Calculated	
Sweep Time(S) sec	12
Sweep points (P)	32001
Number of Sweep points in 10 sec (N)	41
Channel Closing Time (C) ms	15.37

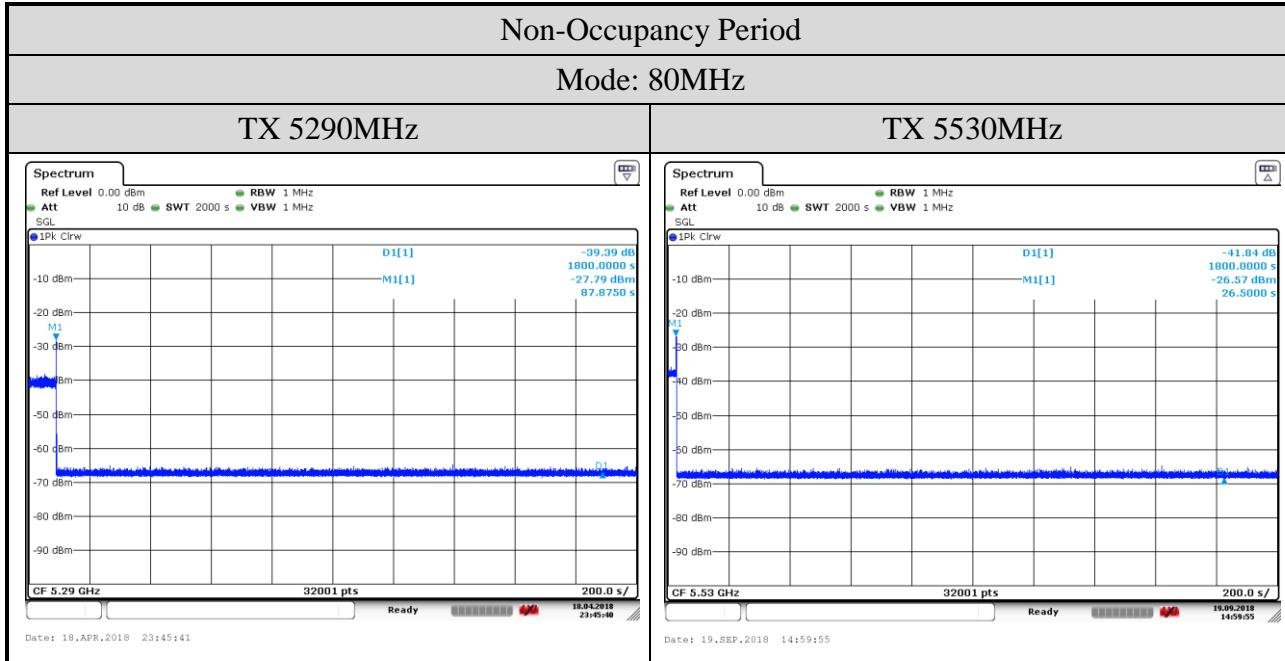
Channel closing time is calculated from $C=N \times \text{dwell}$; where dwell is the occupancy time per sweep point calculated by the formula: dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

7.2.5. Test Result for Non-Occupancy Period

Test Date	2018/04/18	Temp./Hum.	24°C/48%
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Test Date	2018/04/18, 09/19	Temp./Hum.	24°C/48%
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APPENDIX A

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APPENDIX A

TEST PHOTOGRAPHS

(Model: Kamai 7B)