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Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244,Taiwan

Page 1 of 28

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FCC 15.407 NII
DFS Test Report

for

LG Electronics Inc.

222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea

Product Name	:	**Notebook Computer**
Model Name	:	**17Z995**
Brand		**LG**
FCC ID	:	**BEJNT-17Z995**

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

ilac-MRA   TAF
Testing Laboratory
1724

NVLAP®
TESTING
NVLAP LAB CODE 200077-0

File Number: C1M1912230   *Report Number: EM-F190550*

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TABLE OF CONTENTS

TEST REPORT CERTIFICATION

Applicant	:	LG Electronics Inc.
Manufacturer	:	LG Electronics Inc.
Factory #1	:	LG Electronics Nanjing New Technology Co., Ltd.
Factory #2	:	SEO HEUNG ELECTRONICS CO LTD
EUT Description		
(1) Product	:	Notebook Computer
(2) Model	:	17Z995
(3) Brand	:	LG
(4) Power Supply	:	DC 19V, 2.53A

Applicable Standards:
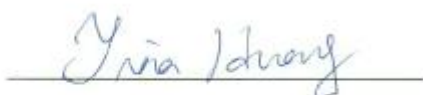
47CFRFCC Part 15 Subpart E
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

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: 2020. 01. 07

Reviewed by: _____   (Tina Huang/Administrator)

Approved by: _____   (Johnny Hsueh/Section Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2020. 01. 07	Original Report	EM-F190550

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 Note: The uncertainties value is not used in determining the result.	

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Manufacturer	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Factory #1	LG Electronics Nanjing New Technology Co., Ltd. No.346,Yaoxin Road, Economic & Technical Development Zone, Nanjing, China.
Factory #2	SEO HEUNG ELECTRONICS CO LTD 55 Asan valley Seo-ro, Dunpo-myeon, Asan-si, Chungcheongnam-do, 31409 Korea
Product	Notebook Computer The product has two colors (Dark Silver and White).
Model	17Z995
Brand	LG

3.2. Description of EUT

Test Model	17Z995	
Serial Number	N/A	
Power Rating	DC 19V, 2.53A	
Software Version	N/A	
RF Features	WLAN:802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE (BT 5.0)	
Transmit Type	**2.4 GHz**	
	802.11b	1T1R
	802.11g	1T1R
	802.11n-HT20	2T2R
	802.11n-HT40	2T2R
	802.11ax-HE20	2T2R
	802.11ax-HE40	2T2R
	BT/BLE	1T1R
	UNII Bands	
	802.11a	1T1R
	802.11n-HT20/802.11ac-VHT20/802.11ax-HE20	2T2R
	802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R
	802.11ac-VHT80/802.11ax-HE80	2T2R
	802.11ac-VHT160/802.11ax-HE160	2T2R
Device Category	☐Outdoor Access Point ☐Fixed point-to-point Access Point ☐Indoor Access Point ■Mobile and Portable client device	
Sample Status	Production	
Date of Receipt	2019. 12. 16	
Date of Test	2020. 01. 06	
Interface Ports of EUT	• One Micro SD Card Slot • One Earphone Port • Three USB 3.0 Ports • One USB Type C Port • One HDMI Port • One DC Input Port	
Accessories Supplied	• AC Adapter • LAN Gender	

3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1.	WA-F-LBLB-04-064 (Main)	INPAQ	FPCB	2400	1.57
				2450	1.41
				2500	1.55
				5100	2.85
				5400	3.13
				5800	3.19
	WA-F-LBLB-04-064 (AUX)	INPAQ	FPCB	2400	1.81
				2450	1.07
				2500	1.79
				5100	3.09
				5400	3.02
				5800	2.66

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	5500-5720	12
802.11n-HT20/ 802.11ac-VHT20/ 802.11ax-HE20	II-2A	5260-5320	4
	II-2C	5500-5720	12
802.11n-HT40/ 802.11ac-VHT40/ 802.11ax-HE40	II-2A	5270-5310	2
	II-2C	5510-5710	6
802.11ac-VHT80/ 802.11ax-HE80	II-2A	5290	1
	II-2C	5530-5690	3
802.11ac-VHT160/ 802.11ax-HE160	II-2A	5250	1
	II-2C	5570	1

Remark: 1. UNII Band II-2A and II-2C (DFS Function, Slave/no In service monitor, no Ad-Hoc mode)

2. 802.11ax channel puncturing is not implemented.

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 144.4
802.11n-HT40		Up to 300
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 173.3
802.11ac-VHT40		Up to 400
802.11ac-VHT80		Up to 866.7
802.11ac-VHT80		Up to 1733.3
802.11ax-HE20	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/1024QAM)	Up to 287
802.11ax-HE40		Up to 574
802.11ax-HE80		Up to 1201
802.11ax-HE160		Up to 2402

3.5. Descriptions of Key Components

3.5.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win10 Home	---
	Microsoft	Win10 Pro	---
Main Board	LG	17Z990/995 Main B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited
SUB Board	LG	17Z990 SUB B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited.
CPU (Socket:FCBGA1528)	Intel	i5-10210U	1.6GHz, up to 4.2GHz
		i7-10510U	1.8GHz, up to 4.9GHz
17" LCD Panel	LG Display	LP170WQ1(SP)(A1)	Resolution: 2560 x 1600, 60Hz WQXGA IPS (Normal Non touch)
Storage (SSD)	Samsung	MZ-VLB2560	256GB
		MZ-VLB5120	512GB
Memory (RAM)	SK hynix	-	8GB DDR4
	Samsung	-	8GB DDR4
	SK hynix	-	8GB DDR4 SODIMM (on Card)
Battery Pack	LG	LBS1224E	72Wh, DC7.7V, 9450mAh
WLAN Combo Card	Intel	AX201D2W	WLAN and BT, 2x2 CNVi 1216 FCC ID: PD9AX201NG IC: 1000M-AX201NG
WLAN Combo Antenna	LG (INPAQ)	WA-F-LBLB-04-064	FPCB Type Main: Black, Aux: Gray
Keyboard	LG	SN3870BL	17Z990 Black KBD
		SN3870BL1	17Z990 White KBD
Web Camera	Chicony	CKFIH2821005290LH	With two microphones
		CKFIH28-121005290LH	With One microphone
	Luxvisions	7BF109N2DC	With two microphones
		7BF109N2DD	With One microphone

Item	Supplier	Model / Type	Character
LANGender (Type C to LAN)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100 Megabit Ethernet (Black) 10/100 Megabit Ethernet
		80-5946-101	
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100Megabit Ethernet (Black) 10/100 Megabit Ethernet
		GD-08MF-36-BK-LP11	
	Type C to LAN: Shielded, Undetached, 0.12m		
	SUZHOU MEC ELECTRONICS	80-5946-200	(White) 10/100/1000 Megabit Ethernet (Black) 10/100/1000 Megabit Ethernet
		80-5946-210	
	Type C to LAN: Shielded, Undetached, 0.13m.		
AC Adapter (48W)	LG (HONOR)	ADS-48MS-19-2 19048E	I/P: AC 100-240V, 50-60Hz, 1.5A, O/P: DC 19V, 2.53A
	DC Power Cord: Non-Shielded, Undetached, 1.5m AC Power Cord: Non-Shielded, Detached, 1.55m (2C)		

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

3.5.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

SKU	
System	Microsoft, Win10 Home
Main Board	LG, 17Z990/995 Main B/D
SUB Board	LG, 17Z990 SUB B/D
CPU	Intel, i7-10510U
17" LCD Panel	LG Display, LP170WQ1(SP)(A1)
Storage (SSD)	Samsung, MZ-VLB5120, 512GB
Memory (RAM)	Samsung, 8GB
	SK Hynix, 8GB (On Card)
Battery Pack	LG, LBS1224E
WLAN Combo Card	Intel, AX201D2W
WLAN Combo Antenna	LG (INPAQ), WA-F-LBLB-04-064
Keyboard	LG, SN3870BL1
Web Camera	Chicony, CKFIH2821005290LH
LAN Gender (Type C to LAN)	SUZHOU MEC ELECTRONICS, 80-5946-200
AC Adapter	LG (HONOR), ADS-48MS-19-2 19048E

3.6. Test Configuration

Item	Bandwidth	Test Channel
Channel Move Time& Channel Closing Transmission Time	160MHz	50
Non-Occupancy Period & Non-associated Test	160MHz	50

3.7. Tested Supporting System List

Item	Manufacturer	Model	Remark
AP Server	ASUS	RT-AX88U	FCC ID: MSQ-RTAXHP00 IC: 3568A- RTAXHP00

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 17025:2017 (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

File Number: C1M1912230

Report Number: EM-F190550

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4. MEASUREMENT EQUIPMENTLIST

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Vector Signal Generation	R&S	SMU200A	104893	2019. 06. 18	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	2019. 06. 12	1 Year
3.	Spectrum Analyzer	R&S	FSV30	101181	2019. 07. 18	1 Year
4.	Atteuator (10dB) X2	Worken	WK0602-10	0120A02208001S	N.C.R	N.C.R
5.	Atteuator (30dB) X2	Worken	WK0602-30	0120A02208002S	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	✓

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6. DFS DETECTION THRESHOLOS 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	$Roundup\left\{\left(\frac{1}{360}\right)\times\left(\frac{19\times10^6}{PRI}\right)\right\}$	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.
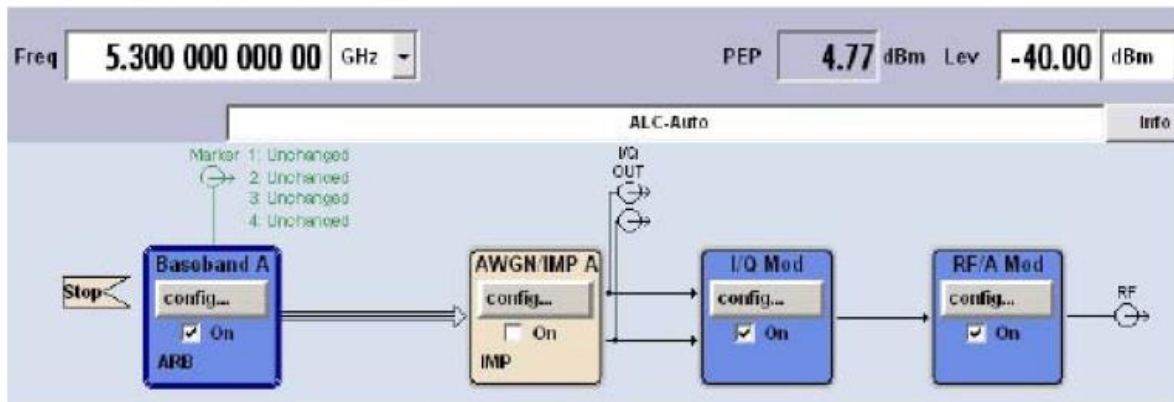
Used R&S SMU200A (Vector SG with two ARB)
B11: Base-band Generator with ARB (16M samples) and Digital Modulation
B13: Base-band Main Module
B106: frequency range (100 kHz to 6 GHz)
For selecting the waveform parameters from within the bounds of the signal type, system
was random selection using uniform 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 some 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).
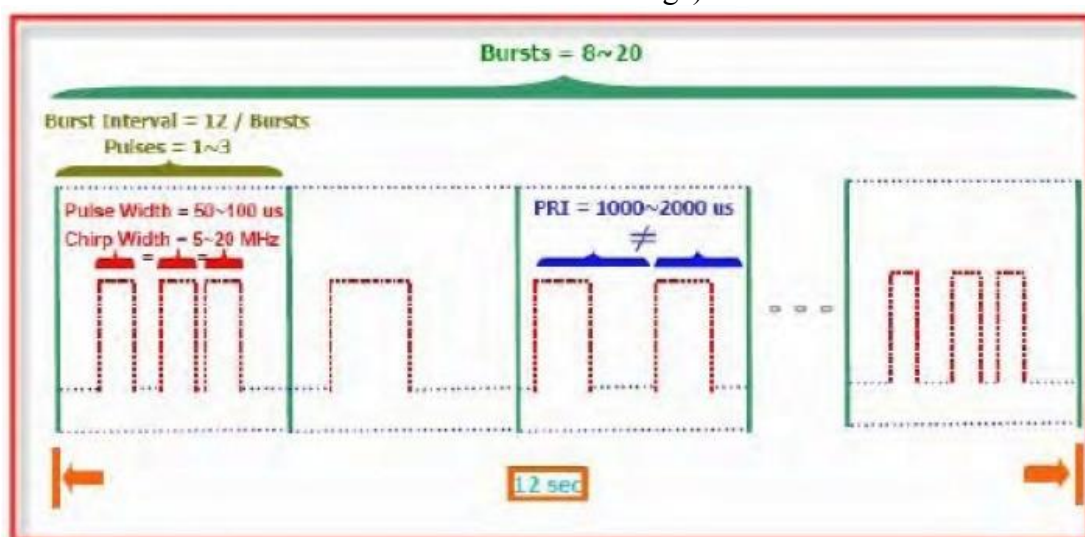
FCC Radar Types (5) System Diagram
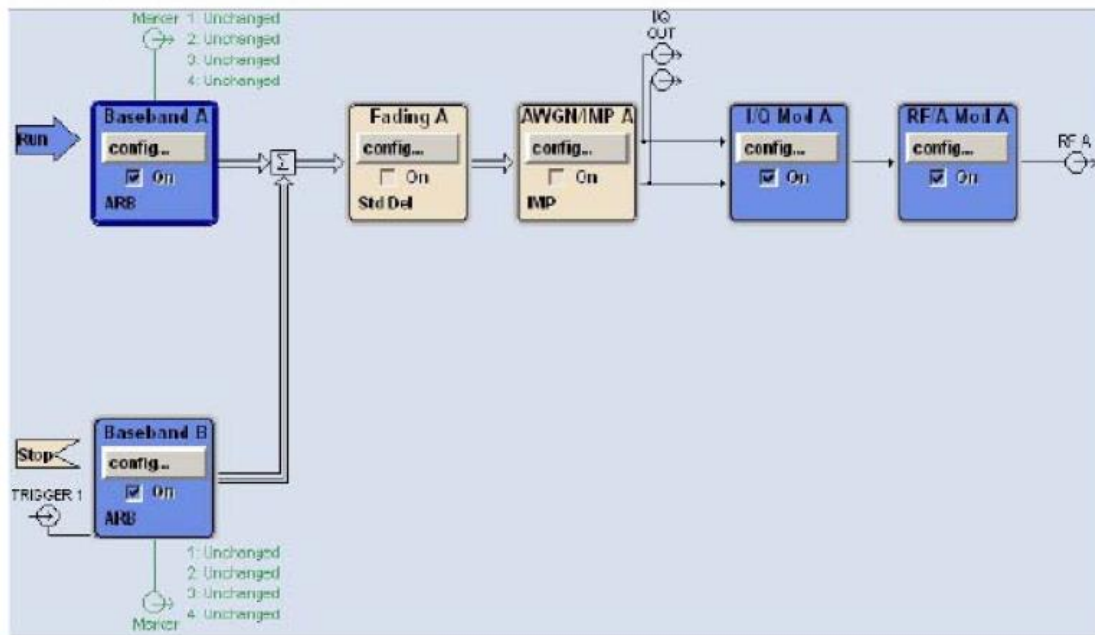
Used R&S SMU200A (Vector SG with two ARB)

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

B13: Base-band Main Module

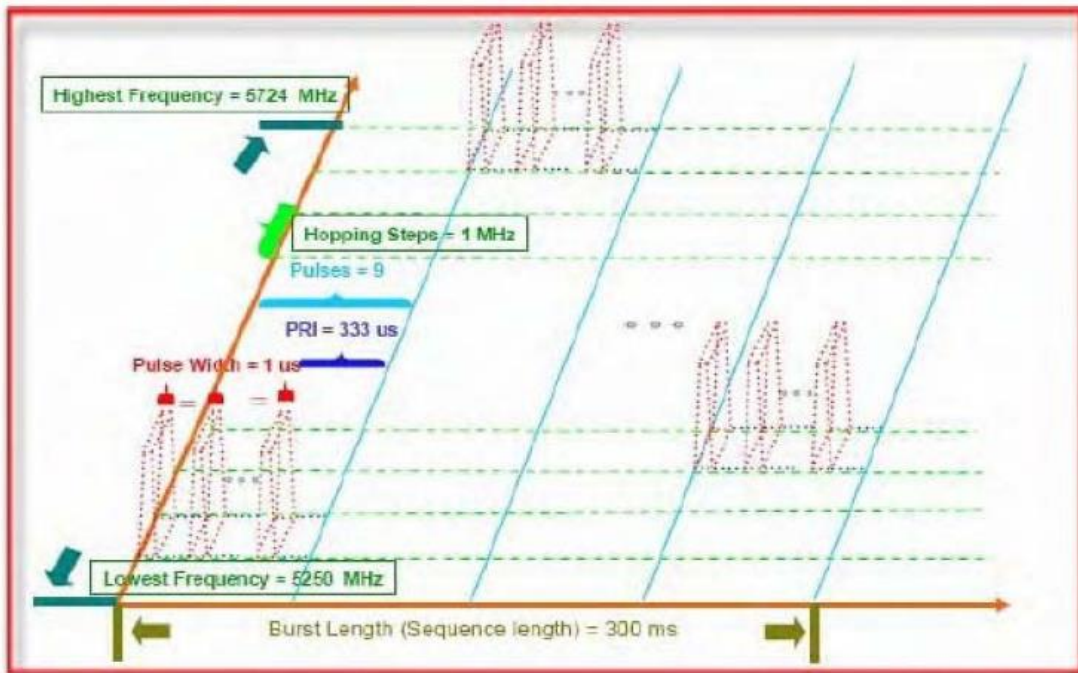B106: frequency range (100 kHz to 6 GHz)

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 form 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
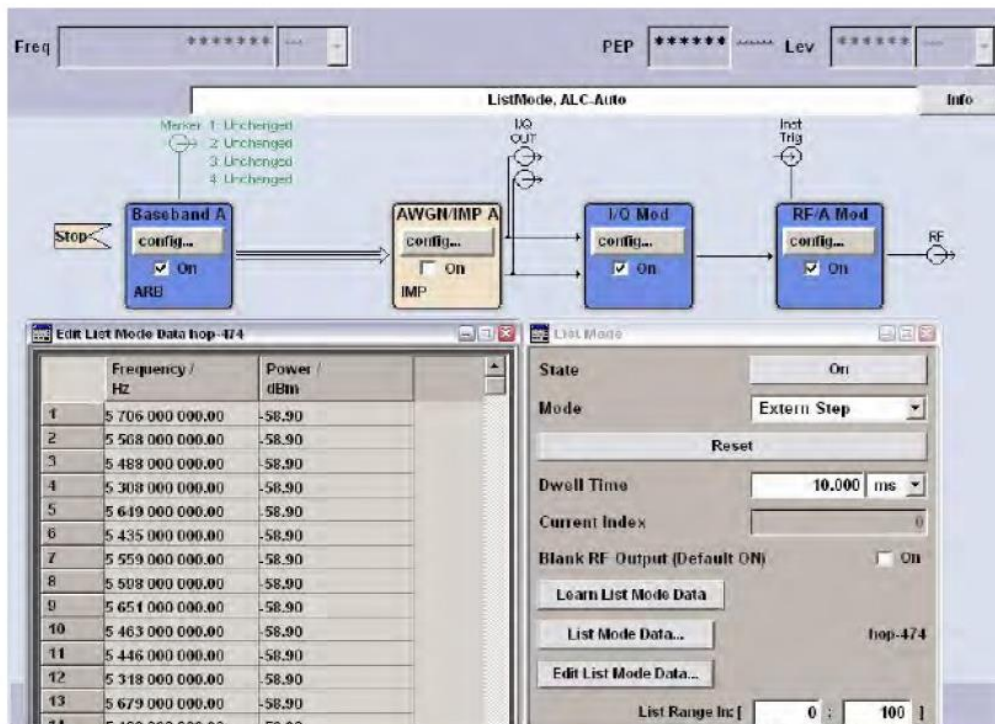
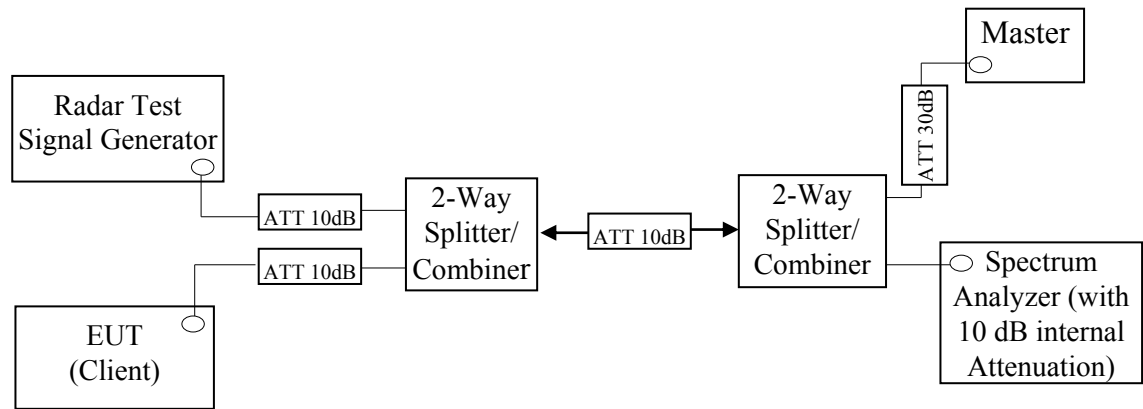Used R&S SMU200A (Vector SG with two ARB)
B11: Base-band Generator with ARB (16M samples) and Digital Modulation
B13: Base-band Main Module
B106: frequency range (100 kHz to 6 GHz)
For selecting the waveform parameters from within the bounds of the signal type, system
was random selection using uniform distribution.

6.6. Conducted Calibration Setup

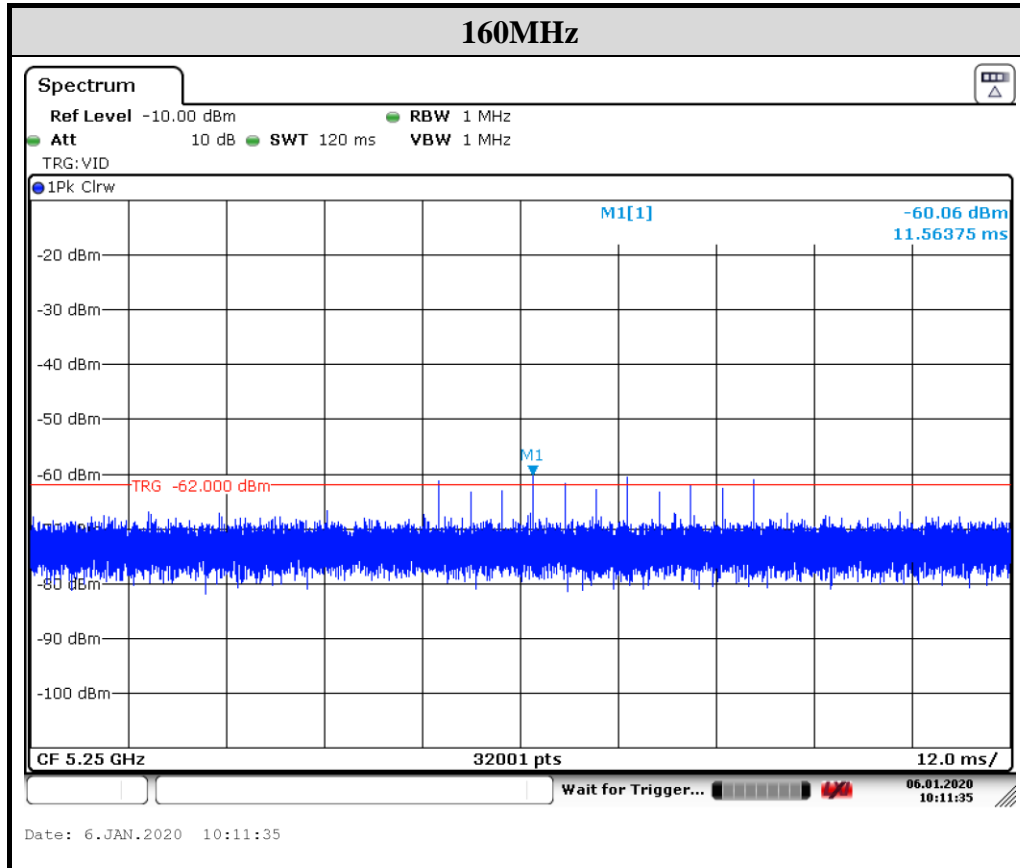## 6.7. Radar Waveform Calibration Procedure

The measured frequency is 5250MHz.   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

160MHz

Spectrum		
Ref Level -10.00 dBm		RBW 1 MHz
Att 10 dB	SWT 120 ms	VBW 1 MHz

TRG:VID
1Pk Clrw

M1[1]   -60.06 dBm
          11.56375 ms

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm
TRG -62.000 dBm

M1

-80 dBm

-90 dBm

-100 dBm

CF 5.25 GHz   32001 pts   12.0 ms/

Wait for Trigger...   06.01.2020 10:11:35

Date: 6.JAN.2020 10:11:35

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.
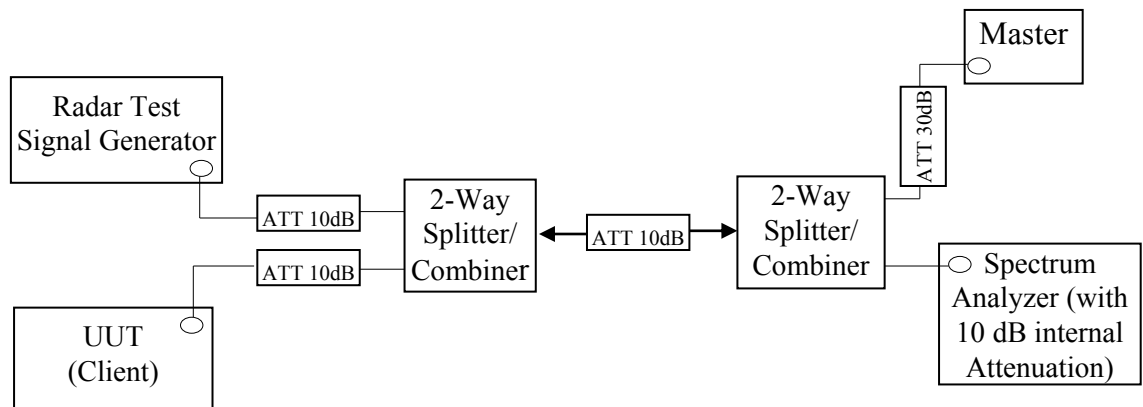

7.1.2. Test Setup Operation

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	2020/01/06	Temp./Hum.	22℃/64%

Test Mode: 802.11ax, 160MHz
TX 5250MHz

Date: 6.JAN.2020 10:03:24
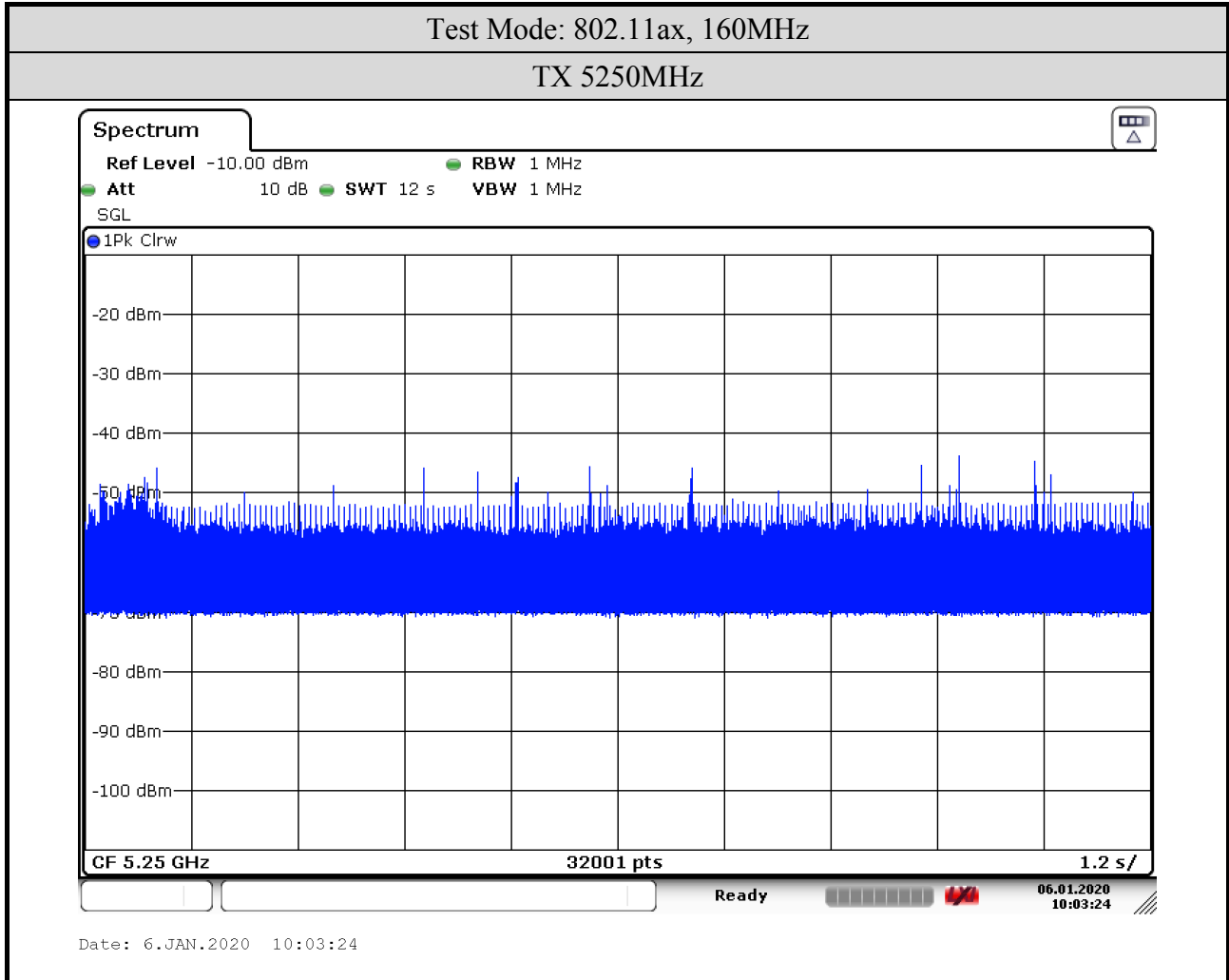
7.2. Channel Move Time, Channel Closing Transmission Time, Non-Occupancy Period, Non-Associated Client Beacon Measurement

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.

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

Test Date	2020/01/06	Temp./Hum.	22℃/64%
Test Mode	802.11ax, 160MHz	Frequency	TX 5250MHz

Channel Closing Transmission Time	Channel move time < 10 S
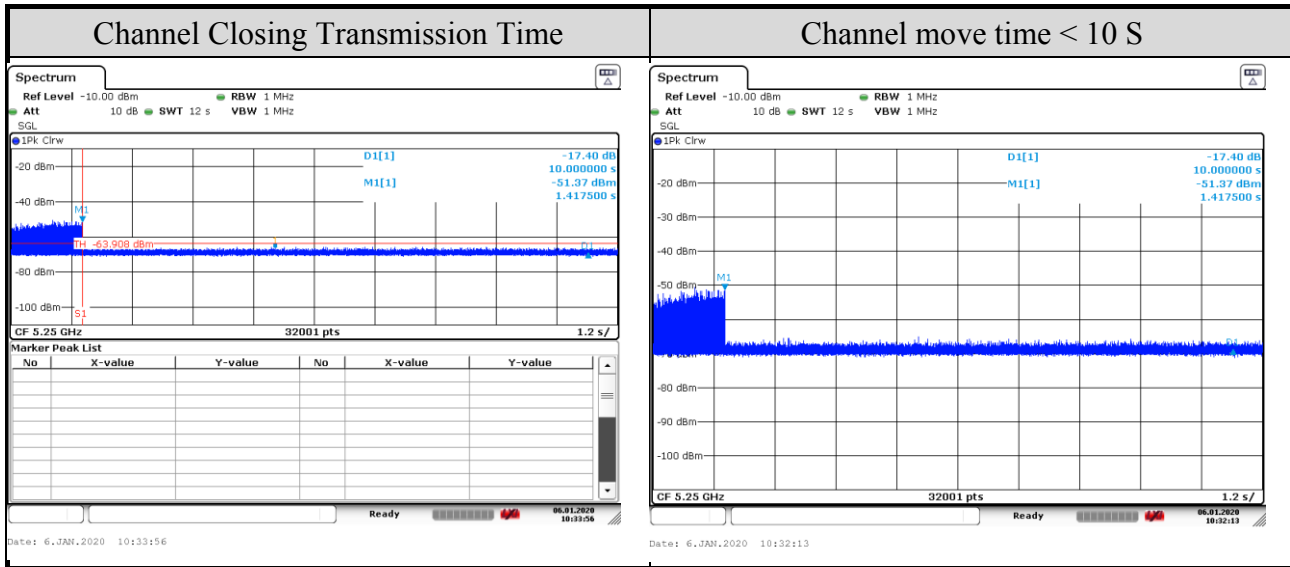
Channel Closing Transmission Time Calculated	
Sweep Time(S) sec	12
Sweep points (P)	32001
Number of Sweep points in 10 sec (N)	0
Channel Closing Time (C) ms	0

Channel closing time is calculated from C=N* 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

7.2.4. Test Result for Non-Occupancy Period, Non-associated Test

Test Date	2020/01/06	Temp./Hum.	22℃/64%
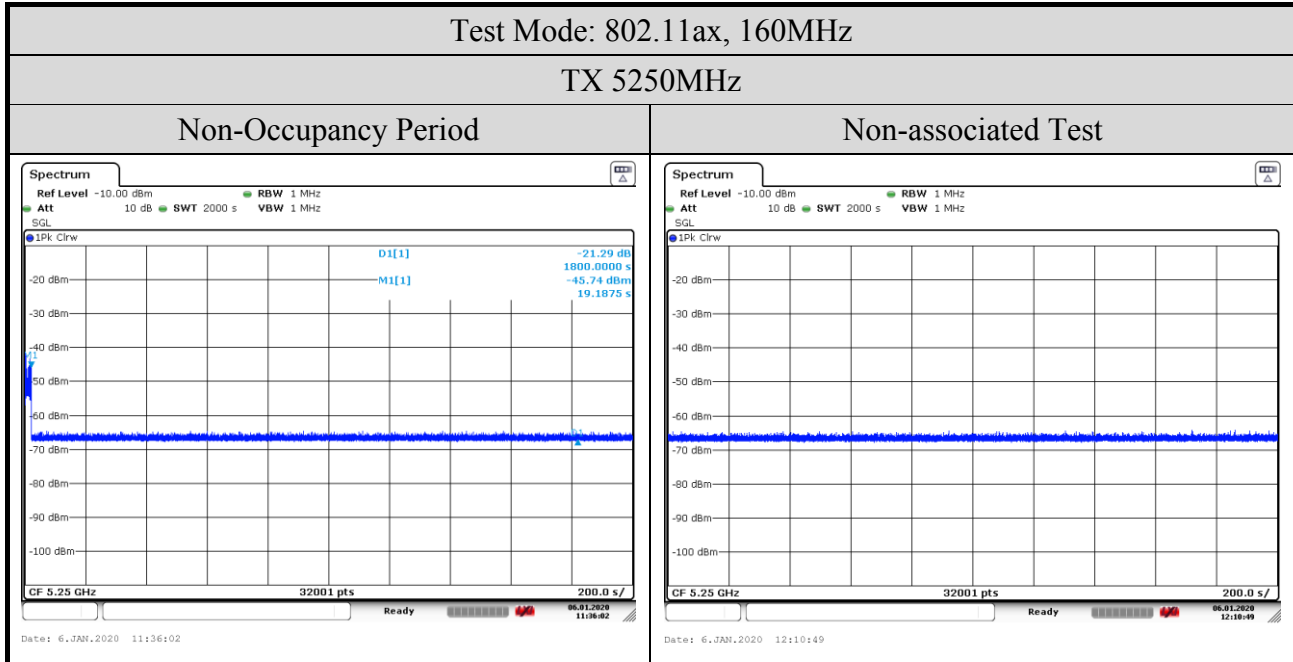
Test Mode: 802.11ax, 160MHz
TX 5250MHz

Non-Occupancy Period	Non-associated Test
Date: 6.JAN.2020 11:36:02	Date: 6.JAN.2020 12:10:49

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APPENDIX A

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APPDNDIX A

TEST PHOTOGRAPHS

(Model: 17Z995)