

DFS Test Report

Report No.: RFBCKS-WTW-P21123397-5

FCC ID: 2AAAS-BB02

Test Model: BB02

Received Date: 2021/12/10

Test Date: 2022/4/04 ~ 2022/4/13

Issued Date: 2022/5/9

Applicant: Vivint. Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

**FCC Registration /
Designation Number:** 723255 / TW2022



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Table of Contents

Release Control Record	3
1 Certificate of Conformity.....	4
2 EUT Information	5
2.1 Operating Frequency Bands and Mode of EUT	5
2.2 EUT Software and Firmware Version.....	5
2.1 Description of Available Antennas to the EUT	5
2.2 EUT Maximum and Minimum Conducted Power	6
2.3 EUT Maximum and Minimum EIRP Power	6
2.4 Transmit Power Control (TPC)	7
2.5 Statement of Manufacturer	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 & Support Equipment List	12
4.1 Test Instruments	12
4.2 Description of Support Units	12
5 Test Procedure	13
5.1 DFS Measurement System	13
5.2 Calibration of DFS Detection Threshold Level	14
5.3 Deviation from Test Standard	14
5.4 Radiated Test Setup Configuration	15
6 Test Results.....	16
6.1 Summary of Test Results	16
6.2 Test Results.....	17
6.2.1 Test Mode: Device operating in Client with radar detection mode	17
6.2.2 U-NII Detection Bandwidth	22
6.2.3 Channel Closing Transmission and Channel Move Time.....	34
6.2.4 Non- Occupancy Period	82
7 Information of the Testing Laboratories.....	84
APPENDIX-A.....	85

Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P21123397-5	Original release.	2022/5/9

1 Certificate of Conformity

Product: Vivint Air Tower

Brand: Vivint, Inc.

Test Model: BB02

Sample Status: Engineering sample

Applicant: Vivint, Inc.

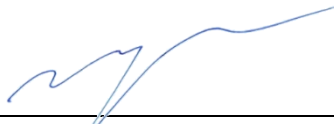
Test Date: 2022/4/04 ~ 2022/4/13

Standards: FCC Part 15, Subpart E (Section 15.407)

References Test Guidance: KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :  , **Date:** 2022/5/9
Claire Kuan / Specialist

Approved by :  , **Date:** 2022/5/9
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2 EUT Information

2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

Operational Mode	Operating Frequency Range	
	5250~5350MHz	5470~5725MHz
Client with radar detection	✓	✓

2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

No.	Product	Model No.	Software/Firmware Version
1	Vivint Air Tower	BB02	A

2.1 Description of Available Antennas to the EUT

Table 3: Antenna List

Antenna No.	RF Chain No.	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
5G1	0	WHVA1	4.5	5.15~5.35 (Scanning, RX only)	PIFA	None
5G2	1	WHVA1	4.5	5.47~5.85 (Scanning, RX only)	PIFA	None
ANT 2 (2a)	2G	48XKAB18	3.5	2.4~2.4835	Dipole	ipex(MHF)
	5GL		3.1	5.15~5.35		
ANT 2 (2b)	5GH	48XKAB18	3.6	5.47~5.85	Dipole	ipex(MHF)
ANT 3 (3a)	2G	48XKAB19	2.7	2.4~2.4835	Dipole	ipex(MHF)
	5GL		3.7	5.15~5.35		
ANT 3 (3b)	BT	48XKAB19	2.9	2.4~2.4835 (BT)	Dipole	ipex(MHF)
	5GH		3.5	5.47~5.85		

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

2.2 EUT Maximum and Minimum Conducted Power

Table 4: The Measured Conducted Output Power

CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	248.521	23.95	62.373	17.95
5470~5725	236.067	23.73	59.293	17.73

Beamforming Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	221.341	23.45	55.590	17.45
5470~5725	211.507	23.25	53.088	17.25

2.3 EUT Maximum and Minimum EIRP Power

Table 5: The EIRP Output Power List

CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	582.103	27.65	146.218	21.65
5470~5725	540.754	27.33	135.831	21.33

Beamforming Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power (mW)	Output Power (dBm)	Output Power (mW)	Output Power (dBm)
5250~5350	970.510	29.87	243.781	23.87
5470~5725	957.194	29.81	240.436	23.81

2.4 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

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

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

2.5 Statement of Manufacturer

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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 6 and 7 for the applicability of DFS requirements for each of the operational modes.

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

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

Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.

Table 7: Applicability of DFS Requirements during Normal Operation

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

Additional requirements for devices with multiple bandwidth modes	Master or Client with radar detection	Client without radar detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

3.2 Test Limits and Radar Signal Parameters

Detection Threshold Values

Table 8: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 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.

Table 9: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Parameters of DFS Test Signals

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

Table 10: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values 15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A	Roundup $\left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\} \right\}$	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
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 11: 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

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

a) the Channel center frequency

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

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

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

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

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

$$FL + (0.4 * \text{Chirp Width [in MHz]})$$

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

$$FH - (0.4 * \text{Chirp Width [in MHz]})$$

Table 12: Frequency Hopping Radar Test Waveform

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

4 Test & Support Equipment List

4.1 Test Instruments

Table 13: Test Instruments List

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver ESR7 R&S	ESR7	102026	2021/4/16	2022/4/15
MXG X-Series RF Vector Signal Generator Keysight	N5182B	MY53052700	2021/7/13	2022/7/12
Horn Antenna FT-RF	HA-07M18G-NF	0000220091110	2021/11/14	2022/11/13
DFS Control Box	BV-DFS-CB	002	2021/11/30	2022/11/29

NOTE:

1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: 2022/4/04 ~ 2022/4/13

4.2 Description of Support Units

Table 14: Support Unit Information

No.	Product	Brand	Model No.	FCC ID	Spec
1	Vivint Air Tower	Vivint, Inc.	BB02	2AAAS-BB02	

NOTE: This device was functioned as a ☒ Master ☐ Client device during the DFS test.

Table 15: Software/Firmware Information

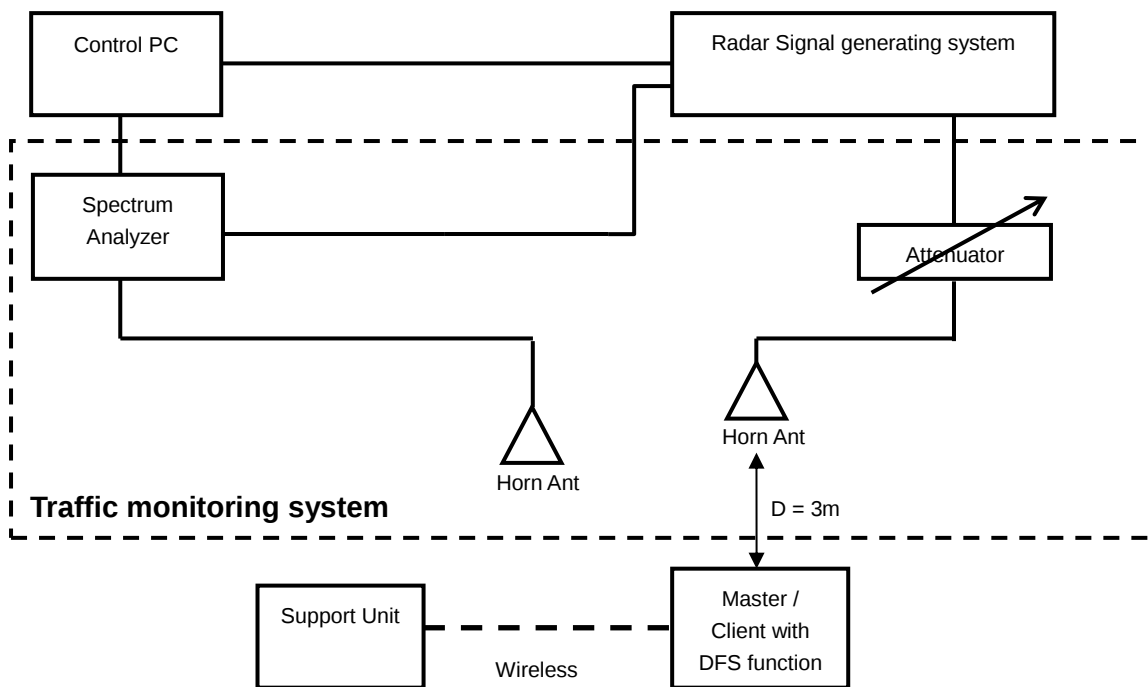
No.	Product	Model No.	Software/Firmware Version
1	Vivint Air Tower	BB02	WHVA1_TW_v02.00.221311

5 Test Procedure

5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating system and (2) the Traffic Monitoring system. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (EUT).

Radiated Setup Configuration of DFS Measurement System



Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

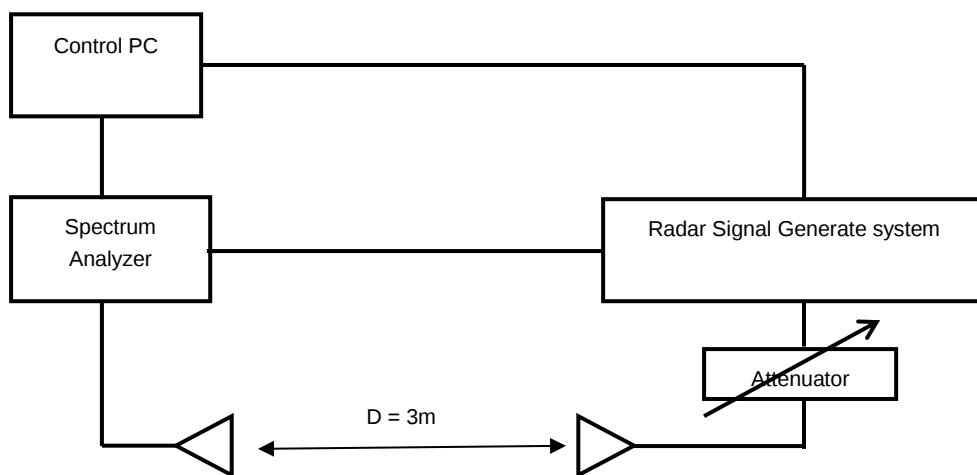
a)	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.	
b)	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.	
c)	Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.	✓
d)	Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.	

5.2 Calibration of DFS Detection Threshold Level

The measured channel is chosen from the operating channels of the EUT within the 5250-5350MHz or 5470-5725MHz and using the all bandwidth mode available for the link. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

Radiated setup configuration of Calibration of DFS Detection Threshold Level

The radar signal generate system is generating waveform pattern of radar types. The amplitude of the radar signal generator system is adjusted to yield a level of -64 dBm as measured on the spectrum analyzer. The interference detection threshold level is lower than -64dBm hence it provides margin to the limit.



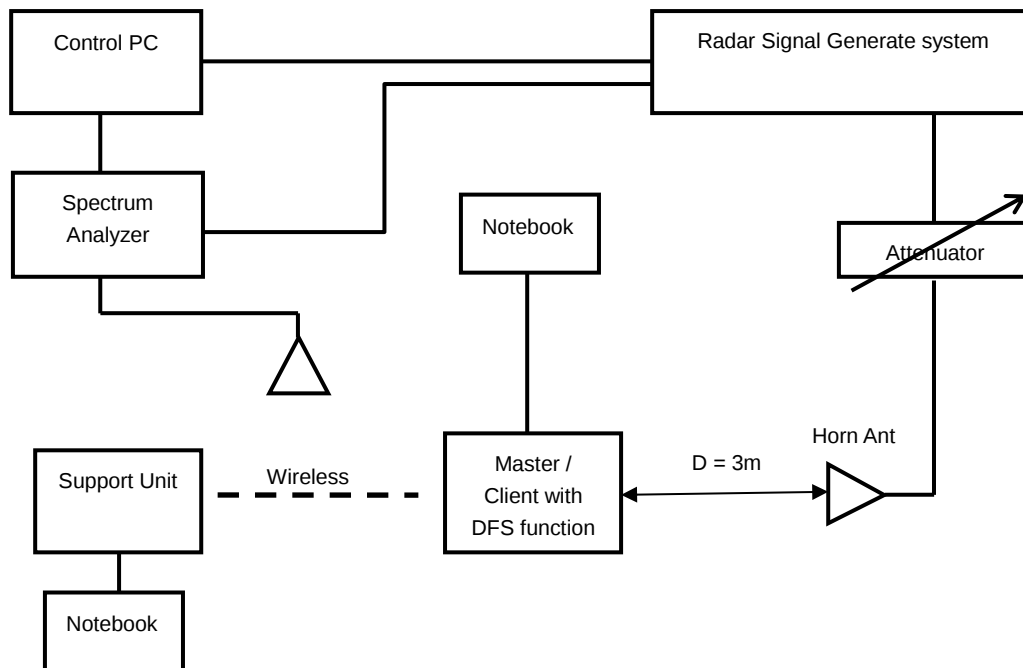
5.3 Deviation from Test Standard

No deviation.

5.4 Radiated Test Setup Configuration

Client with radar detection mode

The EUT is a U-NII Device operating in Client with radar detection mode. The radar test signals are injected into the Client Device.



Note: The EUT main beam of the antenna is directly toward the radar emitter during testing.

6 Test Results

6.1 Summary of Test Results

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Applicable	Pass
15.407	Channel Availability Check Time	Not Applicable	NA
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	U-NII Detection Bandwidth and Statistical Performance Check	Applicable	Pass

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. This device does not support "802.11ax Channel Puncturing" function.

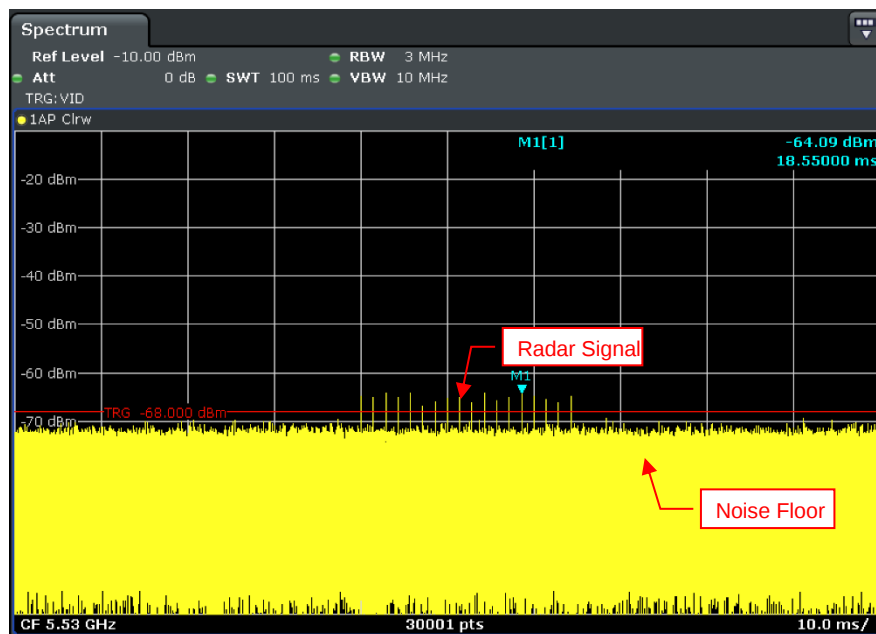
6.2 Test Results

6.2.1 Test Mode: Device operating in Client with radar detection mode

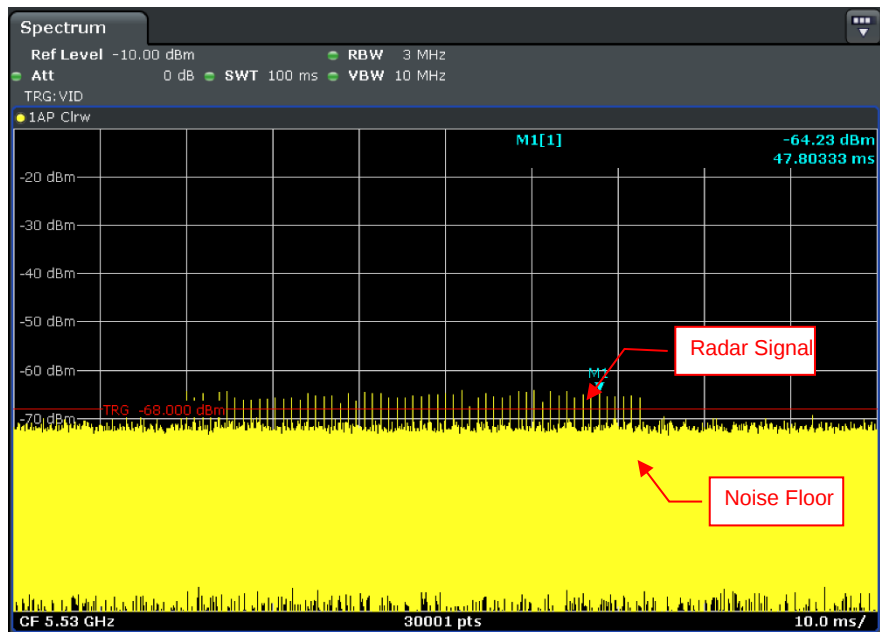
The radar test waveforms are injected into the Client.
 This test was investigated for different bandwidth (20MHz, 40MHz and 80MHz).
 The following plots was done on 80MHz as a representative.

DFS Detection Threshold

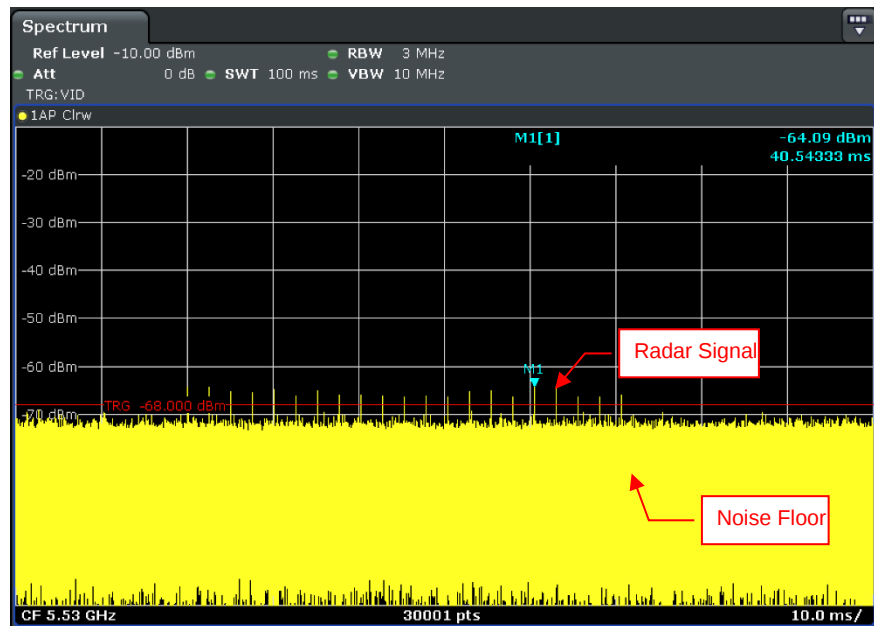
For detection threshold level of -64dBm, the tested level is lower than required level for 1dB, hence it provides margin to the limit.



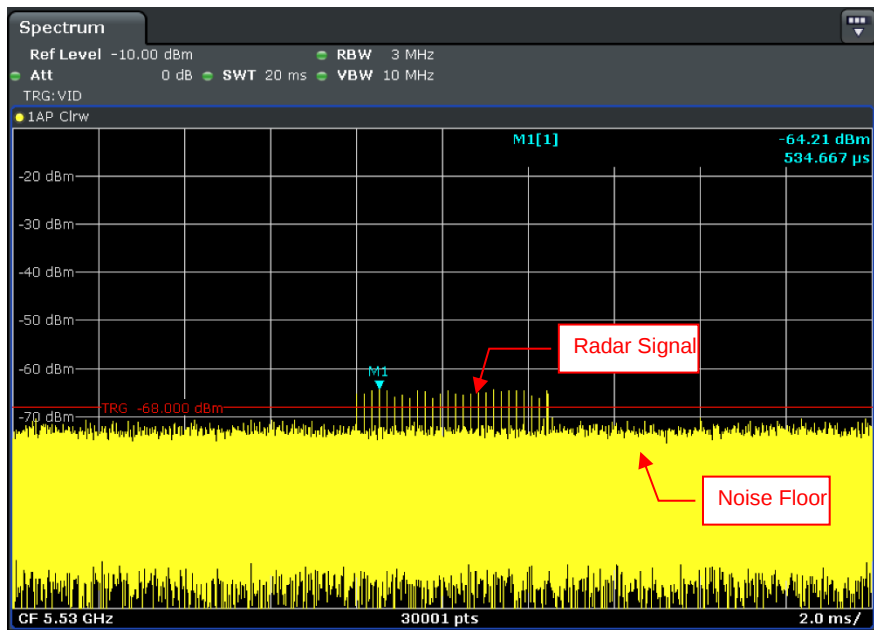
Radar Signal 0



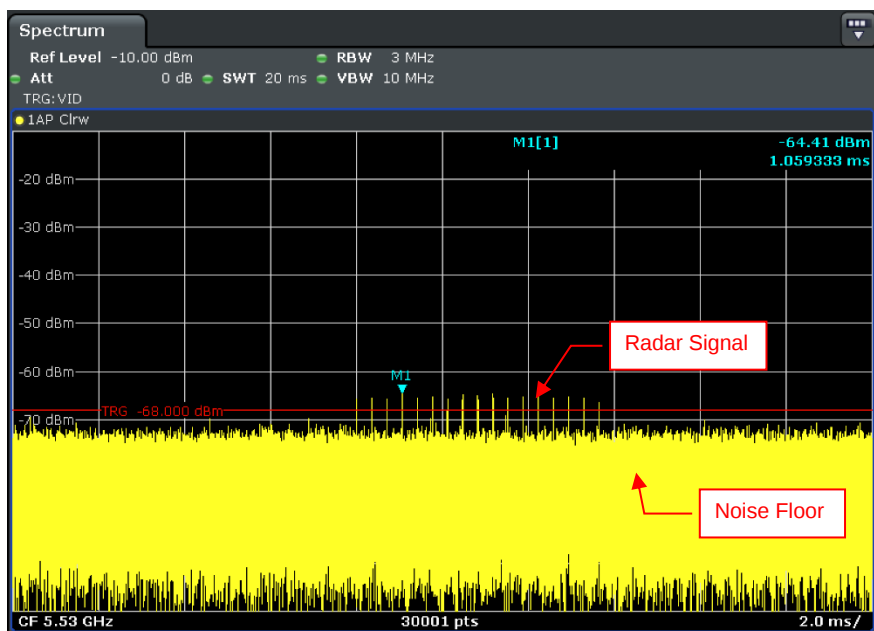
Radar Signal 1 (Test A)



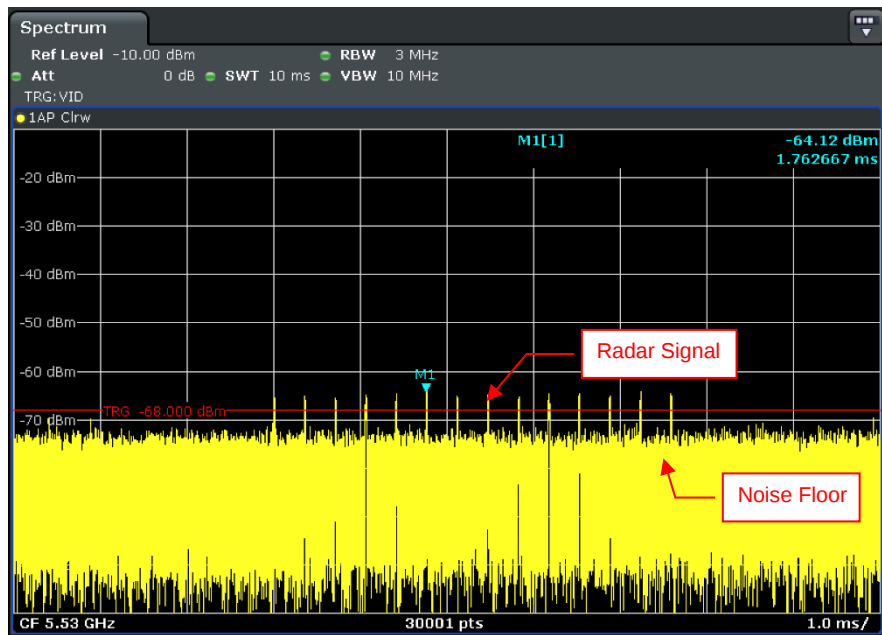
Radar Signal 1 (Test B)



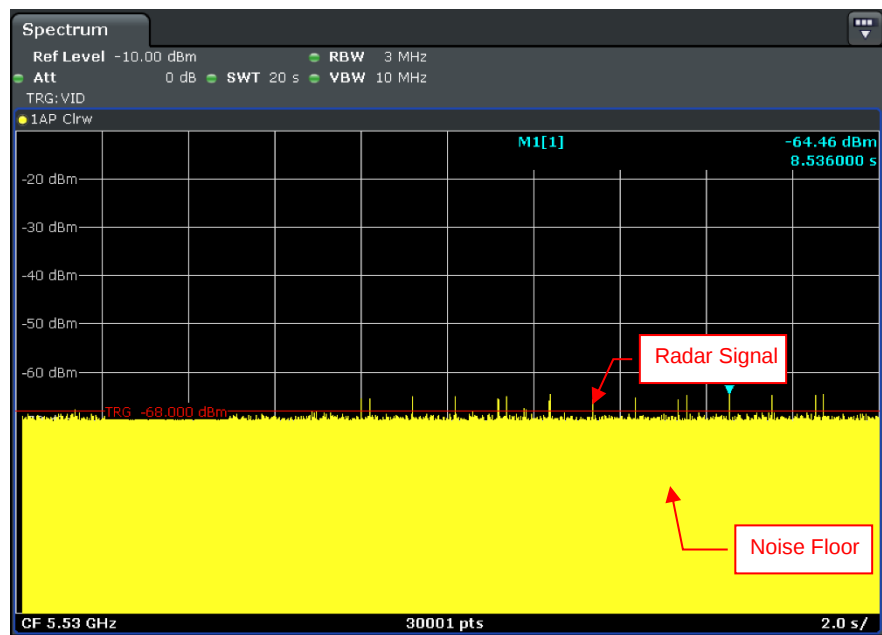
Radar Signal 2



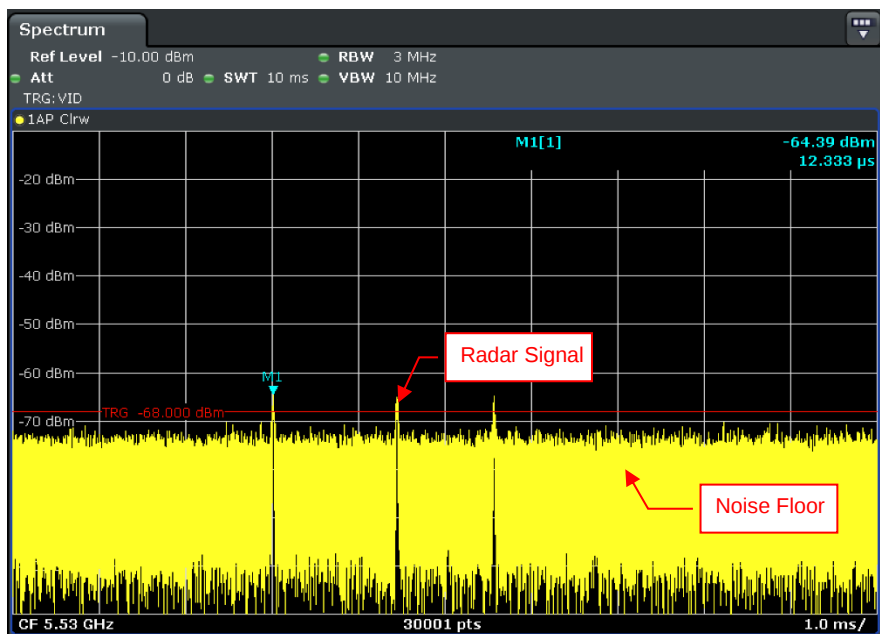
Radar Signal 3



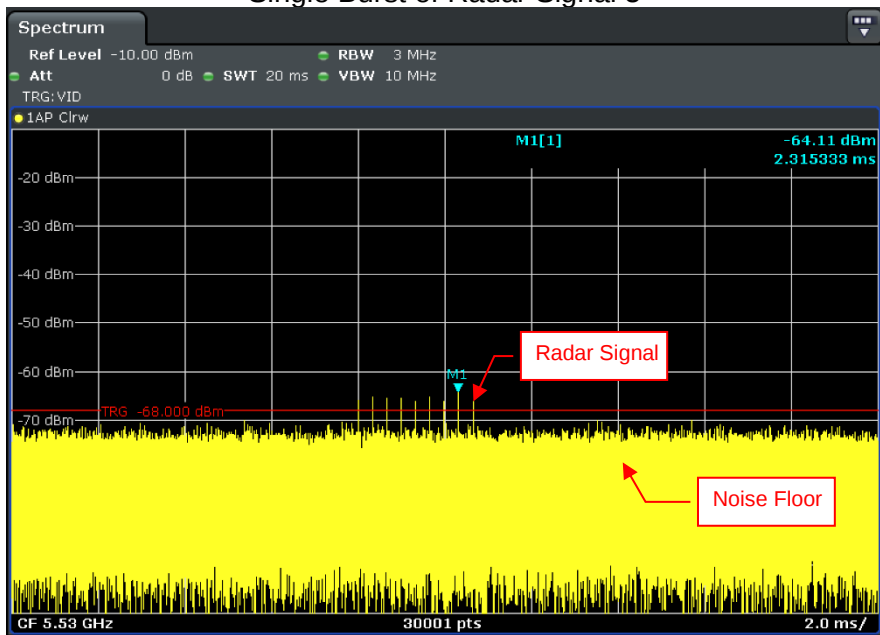
Single Burst of Radar Signal 4



Radar Signal 5



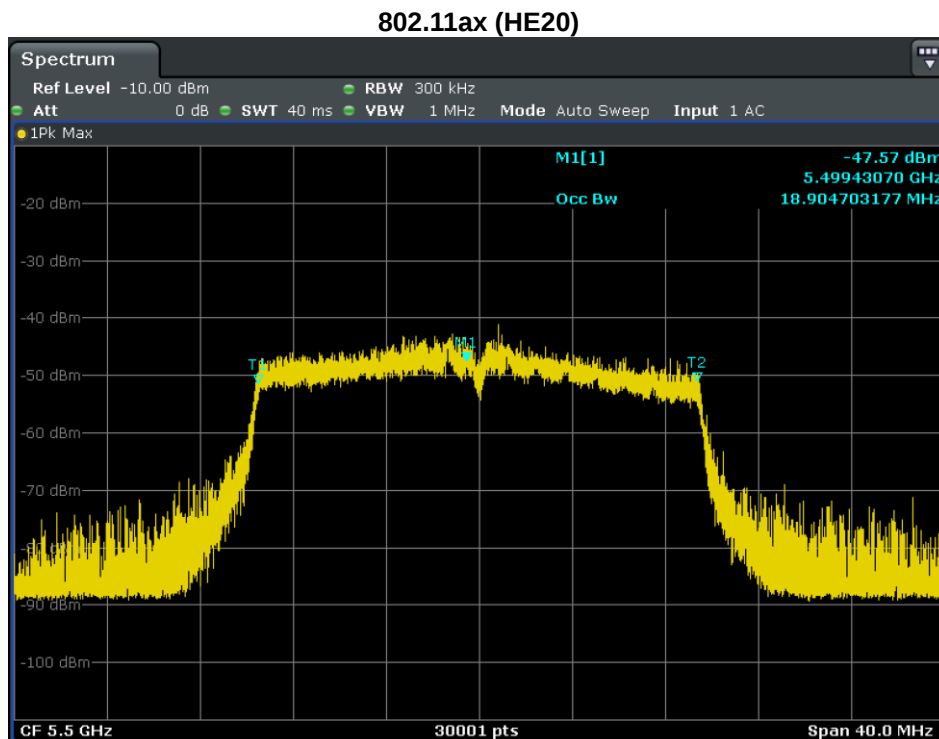
Single Burst of Radar Signal 5



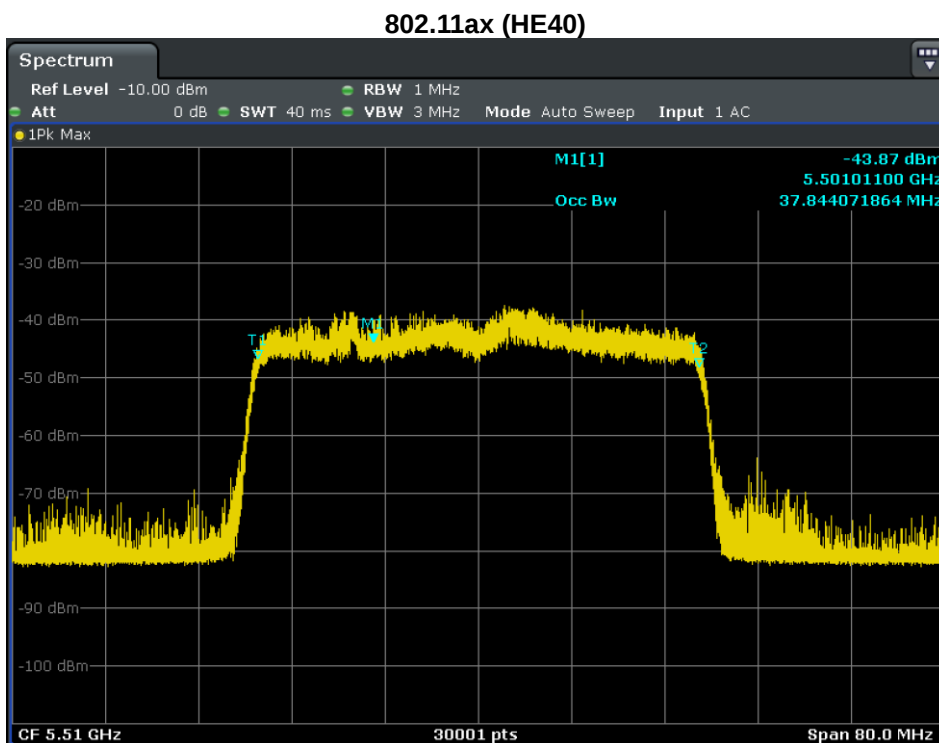
Radar Signal 6

6.2.2 U-NII Detection Bandwidth

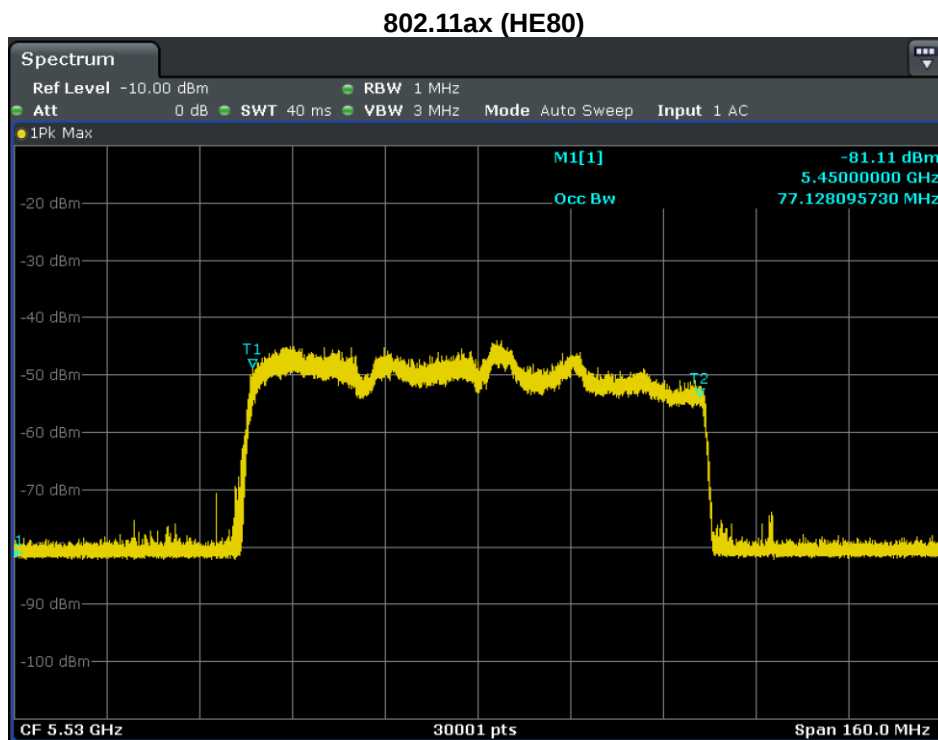
High band



U-NII 99% Channel bandwidth



U-NII 99% Channel bandwidth



U-NII 99% Channel bandwidth

Detection Bandwidth Test - 802.11ax (HE20)

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 18.904MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 18.904MHz

Detection bandwidth (5510(FH) – 5490(FL)) : 20MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5491	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	100
5492	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5493	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5494	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5496	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5498	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5499	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5500	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5501	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5502	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5503	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5504	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5505	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5506	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	90
5507	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5509	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5510(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

Detection Bandwidth Test - 802.11ax (HE40)											
Radar Type 0											
EUT Frequency: 5510MHz											
EUT 99% Power bandwidth: 37.844MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.844MHz											
Detection bandwidth (5529(FH) – 5491(FL)) : 38MHz											
Test Result : PASS											
Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5491(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5492	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5493	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5494	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5496	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	90
5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5498	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5499	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5500	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5501	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5502	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5503	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5504	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5505	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5506	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5507	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5509	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5510	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5511	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5512	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5513	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5514	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5515	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5516	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5518	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5519	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5520	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5521	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5522	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5523	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5524	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5525	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5526	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5527	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5528	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5529(FH)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90

Detection Bandwidth Test - 802.11ax (HE80)

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 77.128MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 77.128MHz

Detection bandwidth (5569(FH) – 5491(FL)) : 78MHz

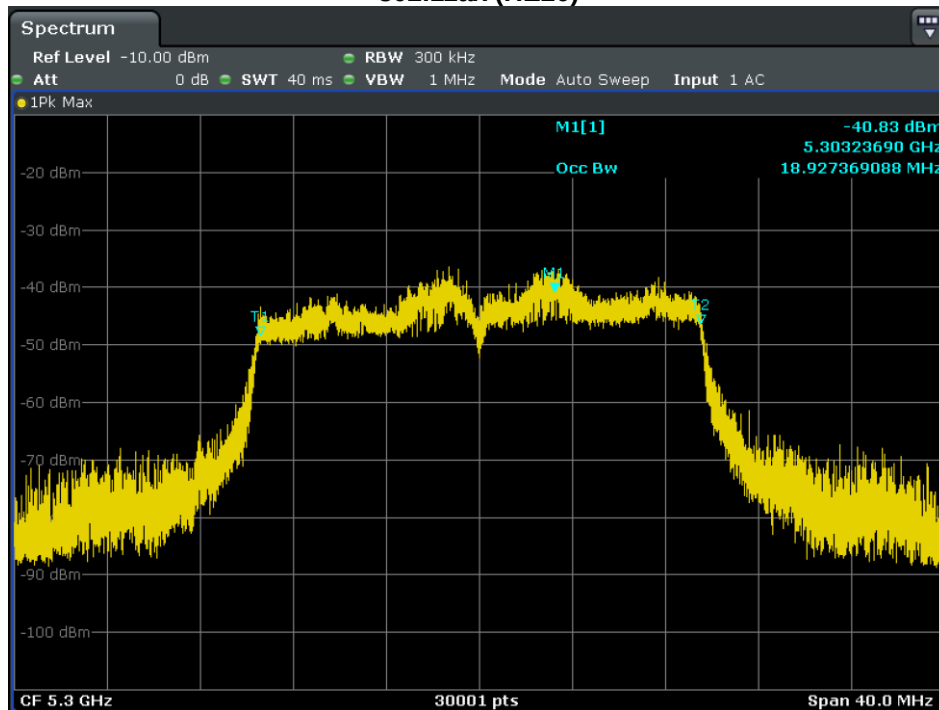
Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5491(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5492	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5493	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5494	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5496	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5498	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5499	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5500	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5501	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5502	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5503	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5504	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5505	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5506	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5507	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5508	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	90
5509	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5510	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5511	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5512	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5513	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5514	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5515	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5516	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5518	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5519	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5520	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5521	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5522	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5523	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5524	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5525	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5526	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5527	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5528	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5529	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5530	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5531	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5532	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5533	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5534	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5535	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

5536	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5537	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5538	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5539	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5540	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5541	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5542	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5543	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5544	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5545	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5546	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5547	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5548	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5549	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5550	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5551	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5552	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5553	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5554	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5555	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5556	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5557	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5558	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5559	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5560	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5561	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5562	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	90
5563	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5564	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5565	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5566	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	90
5567	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5568	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5569(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

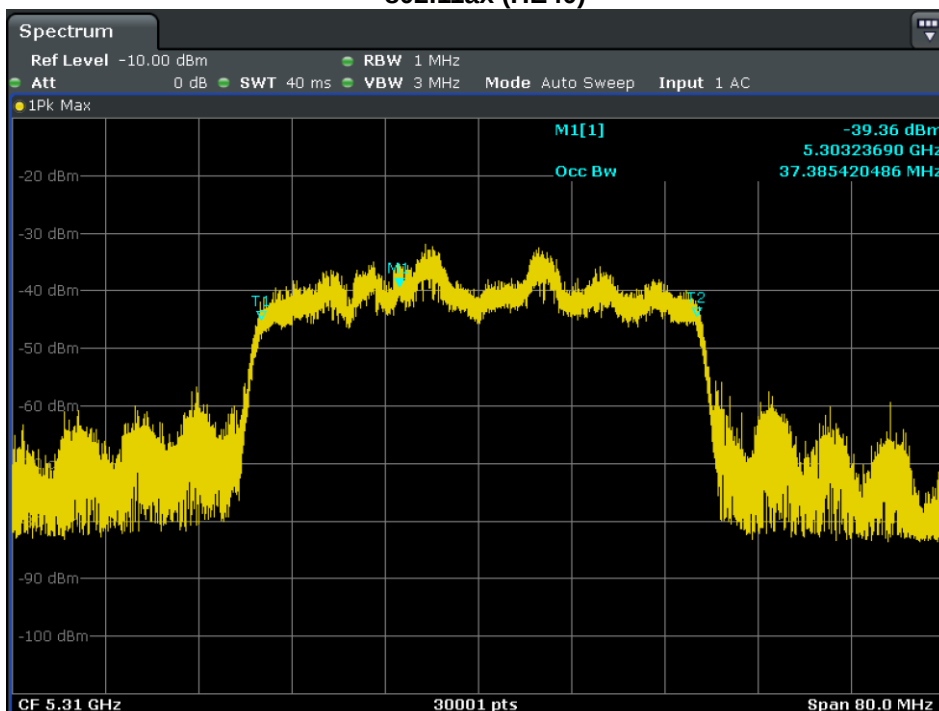
Low band

802.11ax (HE20)



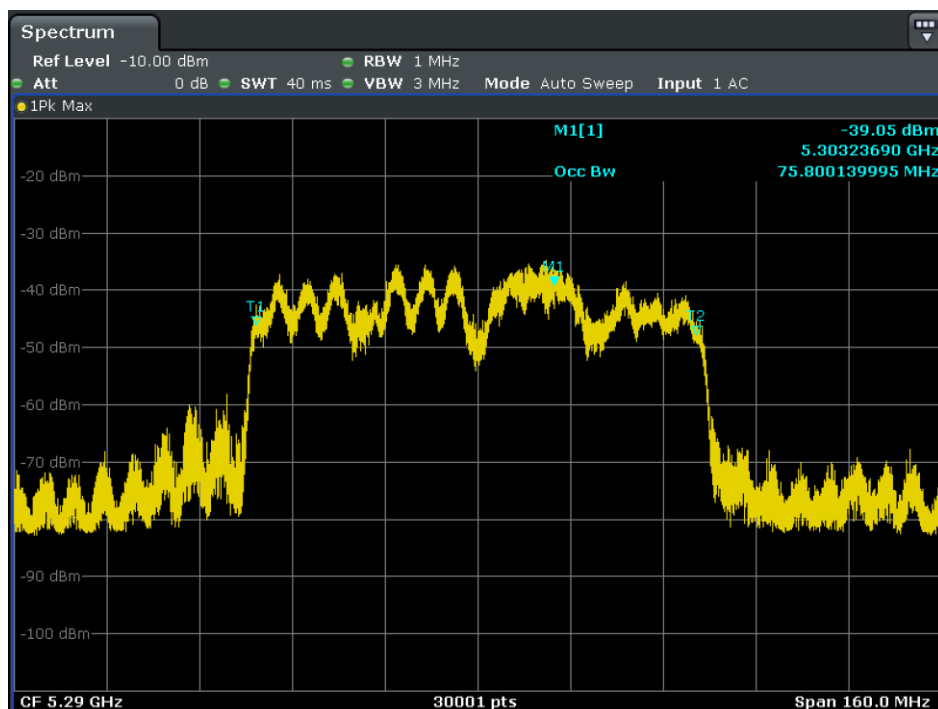
U-NII 99% Channel bandwidth

802.11ax (HE40)



U-NII 99% Channel bandwidth

802.11ax (HE80)



U-NII 99% Channel bandwidth

Detection Bandwidth Test - 802.11ax (HE20)

Radar Type 0

EUT Frequency: 5300MHz

EUT 99% Power bandwidth: 18.927MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 18.972MHz

Detection bandwidth (5310(FH) – 5290(FL)) : 20MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5290(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5291	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	100
5292	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5293	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5294	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5295	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5296	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5297	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5298	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5299	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5300	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5301	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5302	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5303	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5304	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5305	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5306	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	90
5307	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5308	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5309	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5310(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

Detection Bandwidth Test - 802.11ax (HE40)

Radar Type 0

EUT Frequency: 5310MHz

EUT 99% Power bandwidth: 37.385MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.385MHz

Detection bandwidth (5329(FH) – 5291(FL)) : 38MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5291(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5292	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5293	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5294	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5295	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5296	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	90
5297	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5298	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5299	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5300	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5301	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5302	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5303	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5304	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5305	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5306	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5307	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5308	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5309	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5310	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5311	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5312	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5313	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5314	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5315	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5316	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5317	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5318	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5319	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5320	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5321	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5322	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5323	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5324	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5325	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5326	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5327	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5328	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5329(FH)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90

Detection Bandwidth Test - 802.11ax (HE80)

Radar Type 0

EUT Frequency: 5290MHz

EUT 99% Power bandwidth: 75.8MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 75.8MHz

Detection bandwidth (5328(FH) – 5252(FL)) : 76MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5252(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5253	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5254	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5255	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5256	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5257	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5258	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5259	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5260	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5261	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5262	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5263	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5264	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5265	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5266	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5267	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5268	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	90
5269	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5270	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5271	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5272	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5273	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5274	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5275	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5276	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5277	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5278	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5279	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5280	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5281	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5282	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5283	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5284	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5285	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5286	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5287	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5288	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5289	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5290	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5291	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5292	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5293	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5294	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5295	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5296	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100



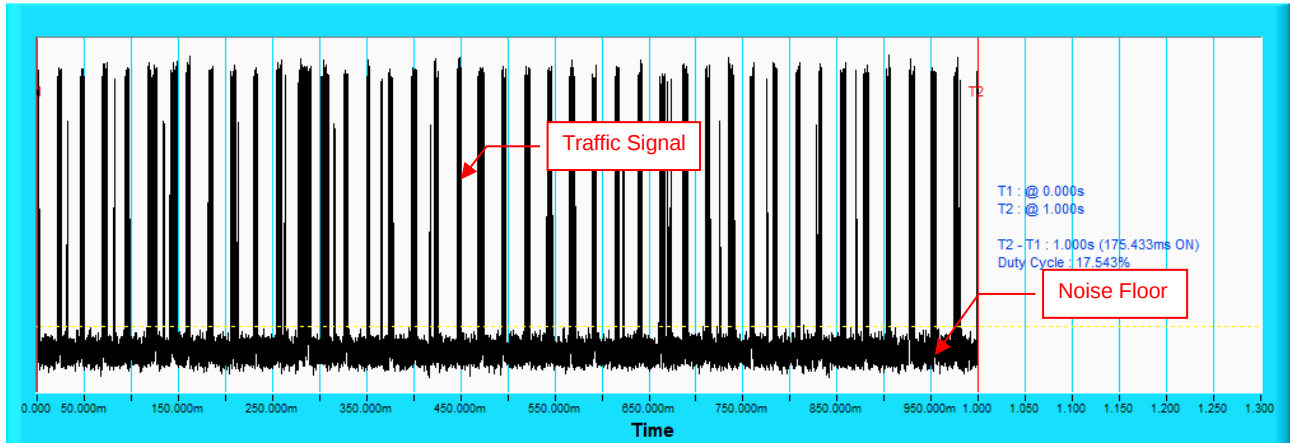
5297	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5298	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5299	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5300	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5301	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5302	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5303	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5304	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5305	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5306	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5307	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5308	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5309	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5311	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5312	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5313	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5314	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5315	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5316	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5317	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5318	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5319	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5320	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5321	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5322	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	90
5323	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5324	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5325	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5326	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	90
5327	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5328(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

6.2.3 Channel Closing Transmission and Channel Move Time

Wireless Traffic Loading

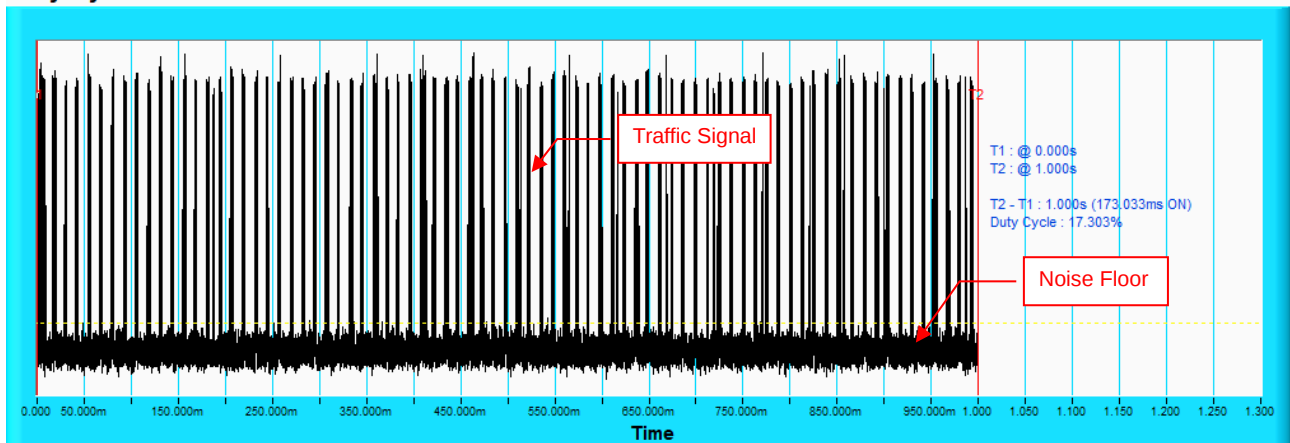
802.11ax (HE20)

Duty Cycle



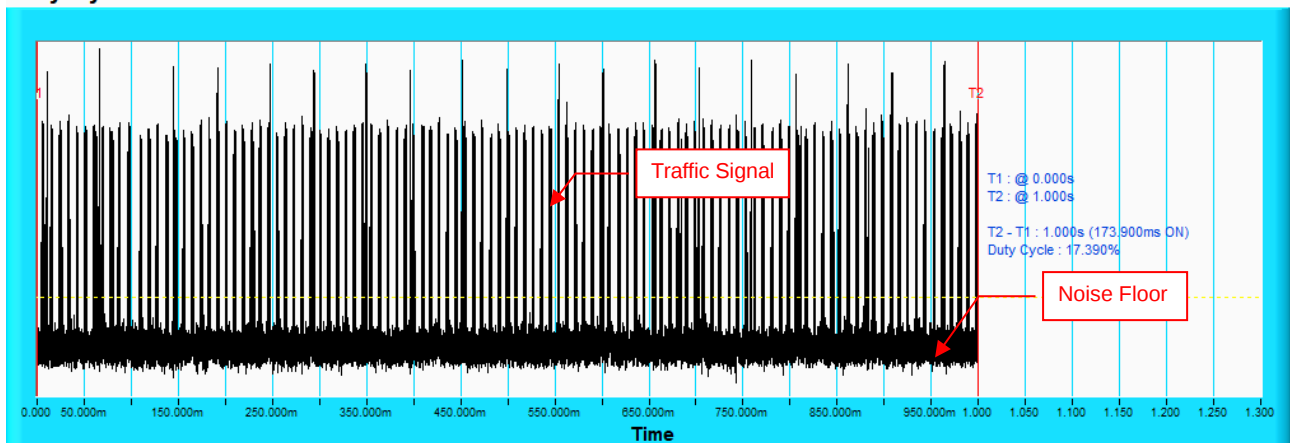
802.11ax (HE40)

Duty Cycle



802.11ax (HE80)

Duty Cycle



High band

802.11ax (HE20)

Table 1: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values	$\text{Roundup} \left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI } \mu\text{sec}} \right\} \right\}$	30	90
		15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	30	80
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	80
Aggregate (Radar Types 1-4)				120	83.3

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	83.3

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	86.6

802.11ax (HE40)

Table 1: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	90
		15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	30	76.6
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	76.6
Aggregate (Radar Types 1-4)				120	81.6

Table 2: Long Pulse Radar Test Waveform

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

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	90

802.11ax (HE80)

Table 1: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	90
		15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	30	86.6
3	6-10	200-500	16-18	30	90
4	11-20	200-500	12-16	30	83.3
Aggregate (Radar Types 1-4)				120	87.4

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	90

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	93.3

Low band

802.11ax (HE20)

Table 1: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values 15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	93.3
2	1-5	150-230	23-29	30	83.3
3	6-10	200-500	16-18	30	86.6
4	11-20	200-500	12-16	30	80
Aggregate (Radar Types 1-4)				120	85.8

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	83.3

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	86.6

802.11ax (HE40)

Table 1: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	86.6
		15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	30	80
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	83.3
Aggregate (Radar Types 1-4)				120	83.3

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	90

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	93.3

802.11ax (HE80)

Table 1: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	Test A 15 unique PRI values randomly selected from the list of 23 PRI values 15 unique PRI values randomly selected within the range of 518~3066 μ sec with a minimum of 1 μ sec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\}$	30	86.6
2	1-5	150-230	23-29	30	93.3
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	80
Aggregate (Radar Types 1-4)				120	85.8

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	93.3

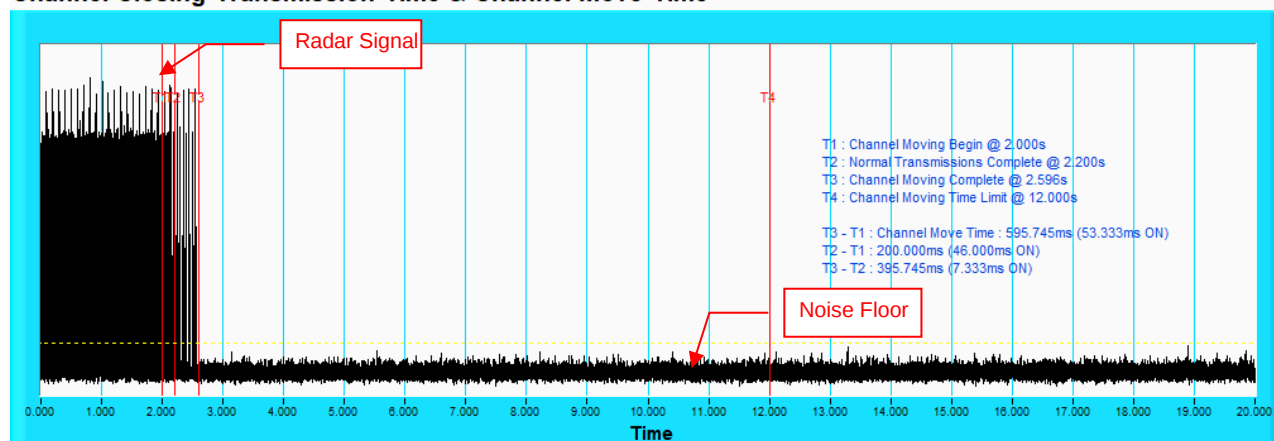
Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	93.3

802.11ax (HE80)

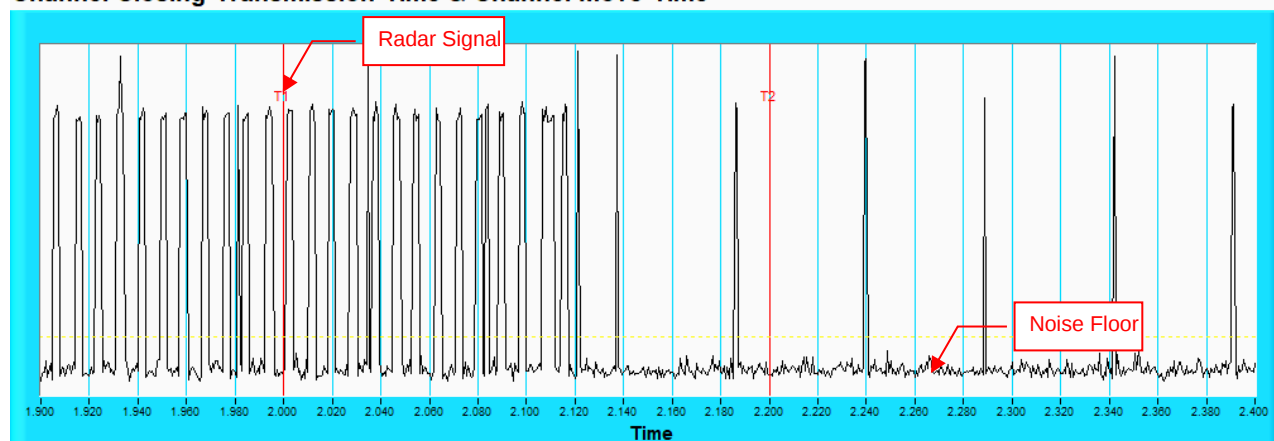
Radar signal 0

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

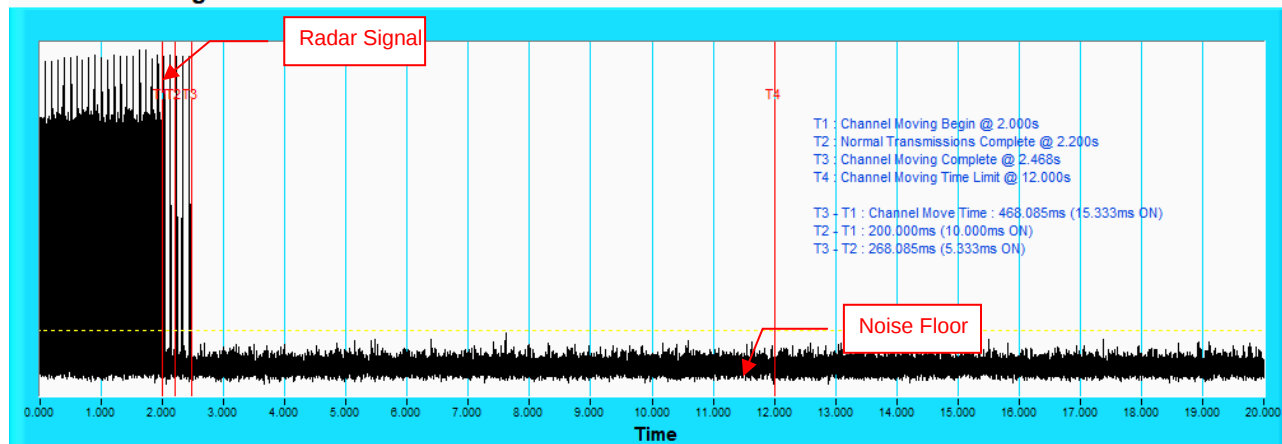
Channel Closing Transmission Time & Channel Move Time



NOTE: Zoom in of the first 500ms after radar signal applied.

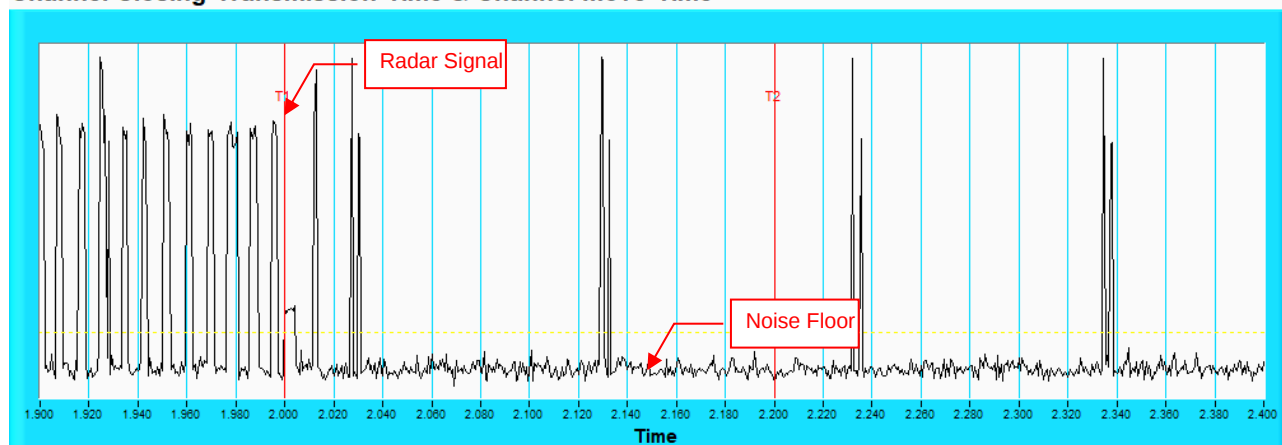
Radar signal 1

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

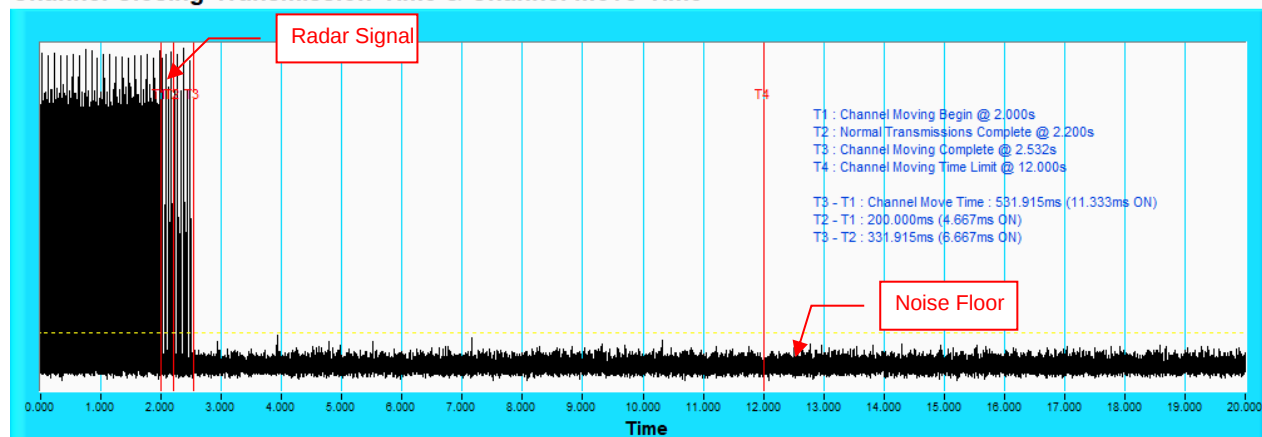
Channel Closing Transmission Time & Channel Move Time



NOTE: Zoom in of the first 500ms after radar signal applied.

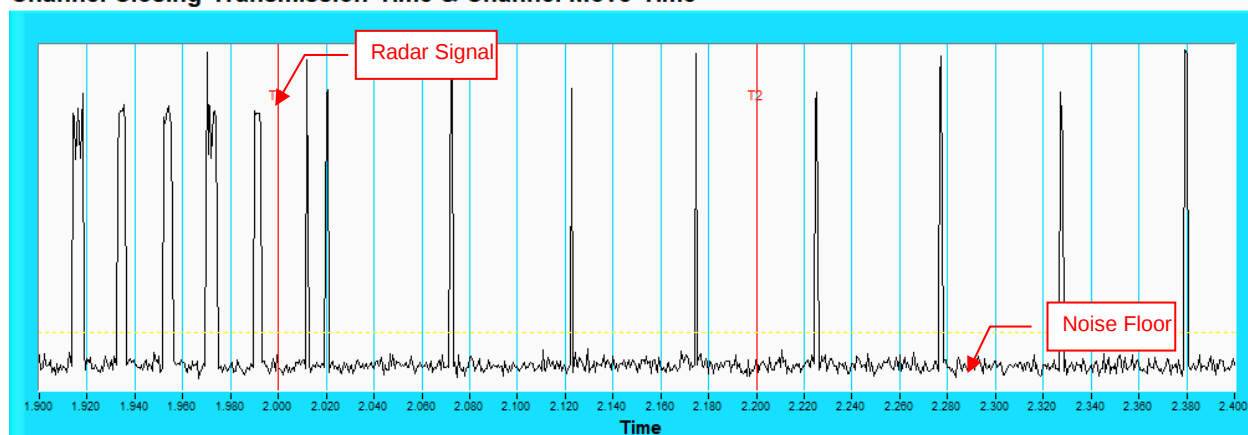
Radar signal 2

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

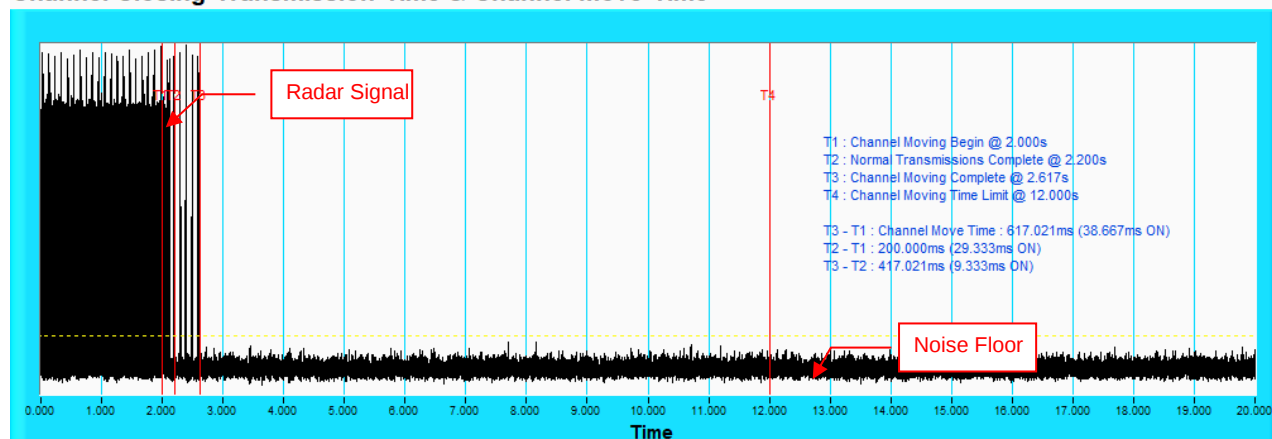
Channel Closing Transmission Time & Channel Move Time



NOTE: Zoom in of the first 500ms after radar signal applied.

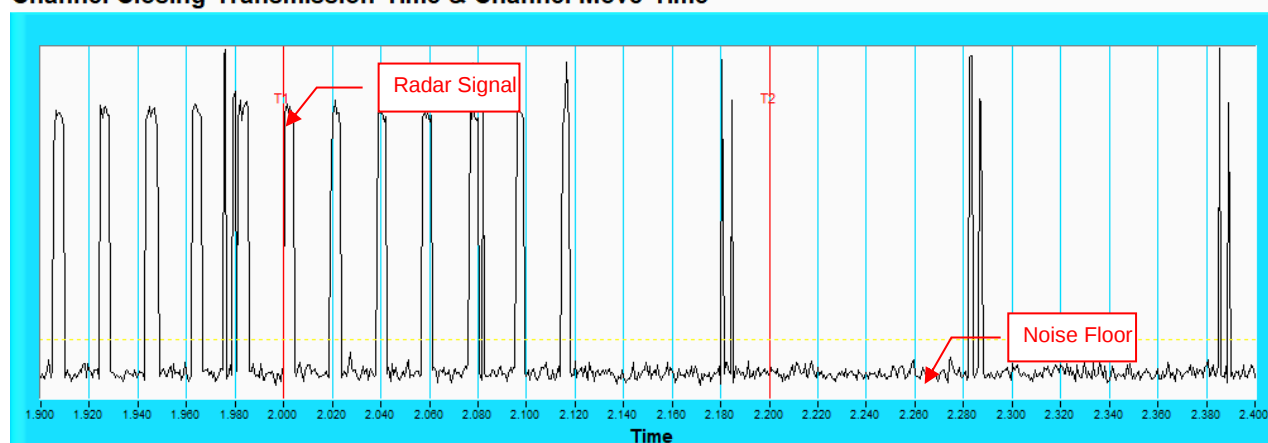
Radar signal 3

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

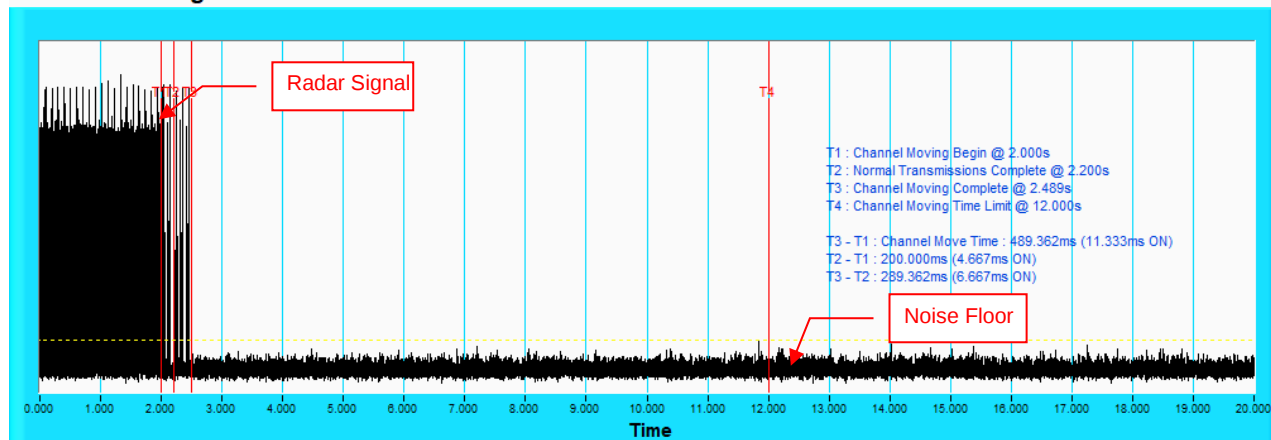
Channel Closing Transmission Time & Channel Move Time



NOTE: Zoom in of the first 500ms after radar signal applied.

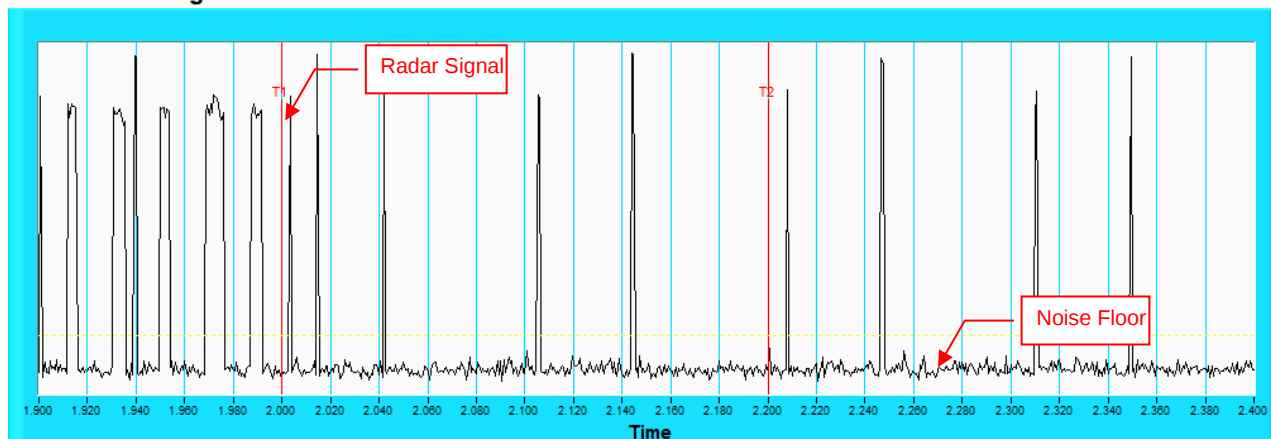
Radar signal 4

Channel Closing Transmission Time & Channel Move Time



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time



NOTE: Zoom in of the first 500ms after radar signal applied.

High band

802.11ax (HE20)

Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (pps)	Pulses per Burst	Pulse Repetition Interval (μsec)	Detection
1	5500	5	1672	89	598	Yes
2	5495	23	326.2	18	3066	Yes
3	5507	15	1253	67	798	Yes
4	5494	17	1193	63	838	Yes
5	5493	9	1475	78	678	Yes
6	5493	7	1567	83	638	No
7	5502	4	1730	92	578	Yes
8	5499	16	1223	65	818	Yes
9	5492	8	1520	81	658	No
10	5505	22	1066	57	938	Yes
11	5508	6	1618	86	618	Yes
12	5506	18	1166	62	858	Yes
13	5503	14	1285	68	778	Yes
14	5500	10	1433	76	698	Yes
15	5494	2	1859	99	538	Yes
16	5506	-	416.1	22	2403	Yes
17	5506	-	492.9	27	2029	Yes
18	5506	-	368.2	20	2716	Yes
19	5491	-	386.2	21	2589	Yes
20	5492	-	394.5	21	2535	Yes
21	5492	-	360.1	20	2777	Yes
22	5498	-	494.1	27	2024	No
23	5505	-	897.7	48	1114	Yes
24	5501	-	962.5	51	1039	Yes
25	5492	-	380.2	21	2630	Yes
26	5509	-	452.7	24	2209	Yes
27	5499	-	391.8	21	2552	Yes
28	5509	-	1083	58	923	Yes
29	5500	-	329.7	18	3033	Yes
30	5506	-	502	27	1992	Yes

Detection Rate : 90%

Note. " - " : 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1μsec, excluding PRI values selected in Test A

802.11ax (HE20)

Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5500	24	2	224	Yes
2	5498	29	4.5	219	Yes
3	5493	26	3.2	167	Yes
4	5494	27	3.7	216	No
5	5499	23	1.1	179	Yes
6	5492	26	3.1	181	Yes
7	5499	27	3.7	188	No
8	5497	26	2.9	155	No
9	5494	29	4.8	214	No
10	5504	23	1.5	195	Yes
11	5503	29	4.9	201	Yes
12	5500	24	1.8	197	Yes
13	5498	23	1.5	158	Yes
14	5493	29	4.9	222	Yes
15	5509	28	4.2	185	Yes
16	5501	23	1	173	Yes
17	5500	29	4.8	190	Yes
18	5500	29	4.5	200	No
19	5494	25	2.3	165	Yes
20	5494	27	3.4	177	Yes
21	5499	23	1	183	Yes
22	5494	28	4	156	Yes
23	5506	23	1.1	213	Yes
24	5503	25	2.7	229	Yes
25	5492	23	1.2	206	Yes
26	5496	29	4.9	203	No
27	5504	26	3.3	163	Yes
28	5495	26	3.2	182	Yes
29	5491	24	1.7	166	Yes
30	5500	25	2.6	210	Yes

Detection Rate : 80%

802.11ax (HE20)

Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5500	16	7	239	Yes
2	5497	18	9.5	335	Yes
3	5507	17	8.2	411	Yes
4	5496	18	8.7	224	Yes
5	5506	16	6.1	428	Yes
6	5496	17	8.1	332	Yes
7	5499	17	8.7	491	Yes
8	5506	17	7.9	348	Yes
9	5502	18	9.8	206	Yes
10	5493	16	6.5	204	Yes
11	5494	18	9.9	438	Yes
12	5500	16	6.8	484	No
13	5505	16	6.5	344	Yes
14	5502	18	9.9	465	Yes
15	5493	18	9.2	444	Yes
16	5503	16	6	357	Yes
17	5503	18	9.8	423	Yes
18	5504	18	9.5	225	Yes
19	5504	16	7.3	217	No
20	5494	17	8.4	242	No
21	5492	16	6	483	Yes
22	5502	18	9	470	Yes
23	5497	16	6.1	308	Yes
24	5500	17	7.7	498	No
25	5506	16	6.2	477	Yes
26	5506	18	9.9	375	Yes
27	5495	17	8.3	285	No
28	5497	17	8.2	433	Yes
29	5496	16	6.7	490	Yes
30	5491	17	7.6	202	Yes
Detection Rate : 83.3%					

802.11ax (HE20)

Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5500	13	13.4	239	Yes
2	5506	16	18.8	335	Yes
3	5500	14	15.9	411	Yes
4	5504	15	17.1	224	No
5	5496	12	11.3	428	Yes
6	5504	14	15.8	332	Yes
7	5493	15	17	491	Yes
8	5494	14	15.3	348	No
9	5505	16	19.6	206	Yes
10	5501	12	12.1	204	Yes
11	5504	16	19.8	438	Yes
12	5492	13	12.8	484	Yes
13	5506	12	12.1	344	Yes
14	5505	16	19.6	465	No
15	5502	15	18.1	444	Yes
16	5495	12	11.1	357	Yes
17	5501	16	19.6	423	Yes
18	5502	16	18.9	225	Yes
19	5504	13	13.9	217	Yes
20	5501	15	16.5	242	Yes
21	5500	12	11	483	Yes
22	5495	15	17.6	470	Yes
23	5500	12	11.4	308	No
24	5509	14	14.7	498	Yes
25	5506	12	11.4	477	No
26	5501	16	19.7	375	Yes
27	5504	14	16.1	285	Yes
28	5507	14	16	433	No
29	5504	12	12.6	490	Yes
30	5505	14	14.7	202	Yes

Detection Rate : 80%

802.11ax (HE20)

Type 5 Radar Statistical Performances

Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5500	LP_Signal_01	Yes
2	15	5500	LP_Signal_02	Yes
3	16	5500	LP_Signal_03	Yes
4	18	5500	LP_Signal_04	Yes
5	8	5500	LP_Signal_05	Yes
6	5	5500	LP_Signal_06	Yes
7	18	5500	LP_Signal_07	Yes
8	12	5500	LP_Signal_08	Yes
9	12	5500	LP_Signal_09	Yes
10	15	5500	LP_Signal_10	Yes
11	5	5492	LP_Signal_11	Yes
12	6	5492	LP_Signal_12	Yes
13	11	5494	LP_Signal_13	Yes
14	18	5497	LP_Signal_14	Yes
15	20	5498	LP_Signal_15	Yes
16	13	5495	LP_Signal_16	No
17	9	5494	LP_Signal_17	Yes
18	11	5494	LP_Signal_18	Yes
19	8	5493	LP_Signal_19	Yes
20	5	5492	LP_Signal_20	Yes
21	12	5505	LP_Signal_21	Yes
22	17	5503	LP_Signal_22	No
23	10	5506	LP_Signal_23	Yes
24	5	5508	LP_Signal_24	Yes
25	15	5504	LP_Signal_25	No
26	11	5506	LP_Signal_26	Yes
27	7	5507	LP_Signal_27	No
28	6	5508	LP_Signal_28	Yes
29	6	5508	LP_Signal_29	Yes
30	8	5507	LP_Signal_30	No

Detection Rate : 83.3%

Note: The Long Pulse Radar pattern shown in Appendix A.1

802.11ax (HE20)

Type 6 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Hopping Frequency Sequence Name	Detection
1	9	1	333.3	HOP_FREQ_SEQ_01	Yes
2	9	1	333.3	HOP_FREQ_SEQ_02	Yes
3	9	1	333.3	HOP_FREQ_SEQ_03	Yes
4	9	1	333.3	HOP_FREQ_SEQ_04	Yes
5	9	1	333.3	HOP_FREQ_SEQ_05	No
6	9	1	333.3	HOP_FREQ_SEQ_06	Yes
7	9	1	333.3	HOP_FREQ_SEQ_07	Yes
8	9	1	333.3	HOP_FREQ_SEQ_08	Yes
9	9	1	333.3	HOP_FREQ_SEQ_09	Yes
10	9	1	333.3	HOP_FREQ_SEQ_10	Yes
11	9	1	333.3	HOP_FREQ_SEQ_11	Yes
12	9	1	333.3	HOP_FREQ_SEQ_12	Yes
13	9	1	333.3	HOP_FREQ_SEQ_13	No
14	9	1	333.3	HOP_FREQ_SEQ_14	Yes
15	9	1	333.3	HOP_FREQ_SEQ_15	Yes
16	9	1	333.3	HOP_FREQ_SEQ_16	Yes
17	9	1	333.3	HOP_FREQ_SEQ_17	Yes
18	9	1	333.3	HOP_FREQ_SEQ_18	Yes
19	9	1	333.3	HOP_FREQ_SEQ_19	Yes
20	9	1	333.3	HOP_FREQ_SEQ_20	Yes
21	9	1	333.3	HOP_FREQ_SEQ_21	Yes
22	9	1	333.3	HOP_FREQ_SEQ_22	Yes
23	9	1	333.3	HOP_FREQ_SEQ_23	Yes
24	9	1	333.3	HOP_FREQ_SEQ_24	Yes
25	9	1	333.3	HOP_FREQ_SEQ_25	No
26	9	1	333.3	HOP_FREQ_SEQ_26	Yes
27	9	1	333.3	HOP_FREQ_SEQ_27	Yes
28	9	1	333.3	HOP_FREQ_SEQ_28	Yes
29	9	1	333.3	HOP_FREQ_SEQ_29	No
30	9	1	333.3	HOP_FREQ_SEQ_30	Yes

Detection Rate : 86.6%

Note: The Frequency Hopping Radar pattern shown in Appendix A.2