

**Report No.:** RF181022E01-4

**FCC ID:** KA2IRX6060A1

**Test Model:** DIR-X6060

**Received Date:** Oct. 22, 2018

**Test Date:** Apr. 19 to 26, 2019

**Issued Date:** May 08, 2019

**Applicant:** D-Link Corporation

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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Taiwan R.O.C.

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



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### Release Control Record

| Issue No.     | Description       | Date Issued  |
|---------------|-------------------|--------------|
| RF181022E01-4 | Original release. | May 08, 2019 |

## 1 Certificate of Conformity

**Product:** AX6000 Wi-Fi 6 Router

**Brand:** D-Link

**Test Model:** DIR-X6060

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** D-Link Corporation

**Test Date:** Apr. 19 to 26, 2019

**Standards:** FCC Part 15, Subpart E (Section 15.407)  
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 :** Phoenix Huang, **Date:** May 08, 2019  
Phoenix Huang / Specialist

**Approved by :** May Chen, **Date:** May 08, 2019  
May Chen / Manager

## 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 |
| Master           | ✓                         | ✓            |

### 2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

| No. | Product               | Model No. | Software/Firmware Version |
|-----|-----------------------|-----------|---------------------------|
| 1   | AX6000 Wi-Fi 6 Router | DIR-X6060 | 17.10.25.1503             |

### 2.3 Description of Available Antennas to the EUT

| WLAN                                                                     |                                |              |                |
|--------------------------------------------------------------------------|--------------------------------|--------------|----------------|
| Frequency Range (GHz)                                                    | Directional Antenna Gain (dBi) | Antenna Type | Connector Type |
| 2.4~2.4835                                                               | 6.628229                       | Dipole       | R-SMA          |
| 5.15~5.85                                                                | 7.698165                       |              |                |
| Bluetooth                                                                |                                |              |                |
| Frequency Range (GHz)                                                    | Antenna Net Gain (dBi)         | Antenna Type | Connector Type |
| 2.4~2.4835                                                               | 2.97                           | Printed      | NA             |
| Note: More detailed information, please refer to opearating description. |                                |              |                |

## 2.4 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            | 240.802           | 23.82              | 60.534            | 17.82              |
| 5470~5725            | 248.712           | 23.96              | 62.517            | 17.96              |

### Beamforming Mode

| Frequency Band (MHz) | MAX. Power        |                    | MIN. Power        |                    |
|----------------------|-------------------|--------------------|-------------------|--------------------|
|                      | Output Power (mW) | Output Power (dBm) | Output Power (mW) | Output Power (dBm) |
| 5250~5350            | 169.025           | 22.28              | 42.462            | 16.28              |
| 5470~5725            | 169.439           | 22.29              | 42.56             | 16.29              |

## 2.5 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            | 533.335           | 27.27              | 133.968           | 21.27              |
| 5470~5725            | 550.808           | 27.41              | 138.357           | 21.41              |

### 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            | 995.405           | 29.98              | 250.035           | 23.98              |
| 5470~5725            | 997.7             | 29.99              | 250.611           | 23.99              |

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

## 2.7 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 UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 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<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                       | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                 | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the<br>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<br>See Note 1.                                                                                    |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60<br>milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth         | Minimum 100% of the U-NII 99% transmission<br>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<br>15 unique PRI values randomly selected from the list of 23 PRI values<br><br>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 | $\text{Roundup} \left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\} \right\}$ | 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 UUT Occupied Bandwidth  
 c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT 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 UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT 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 UUT 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 |
|---------------------------------|-----------|------------|-----------------|------------------|
| Spectrum Analyzer R&S           | FSV40     | 100964     | June 20, 2018   | June 19, 2019    |
| Vector Signal Generator Agilent | N5182B    | MY53051263 | Sep. 07, 2018   | Sep. 06, 2019    |
| Horn_Antenna EMCO               | 1018G     | 0001       | Nov. 25, 2018   | Nov. 24, 2019    |
| DFS Control Box                 | BV-DFS-CB | 001        | Nov. 30, 2018   | Nov. 29, 2019    |

##### 4.2 Description of Support Units

Table 14: Support Unit Information

| No. | Product               | Brand  | Model No. | Spec |
|-----|-----------------------|--------|-----------|------|
| 1   | AX6000 Wi-Fi 6 Router | D-Link | DIR-X6060 |      |

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

Table 15: Software/Firmware Information

| No. | Product               | Model No. | Software/Firmware Version |
|-----|-----------------------|-----------|---------------------------|
| 1   | AX6000 Wi-Fi 6 Router | DIR-X6060 | 17.10.25.1503             |

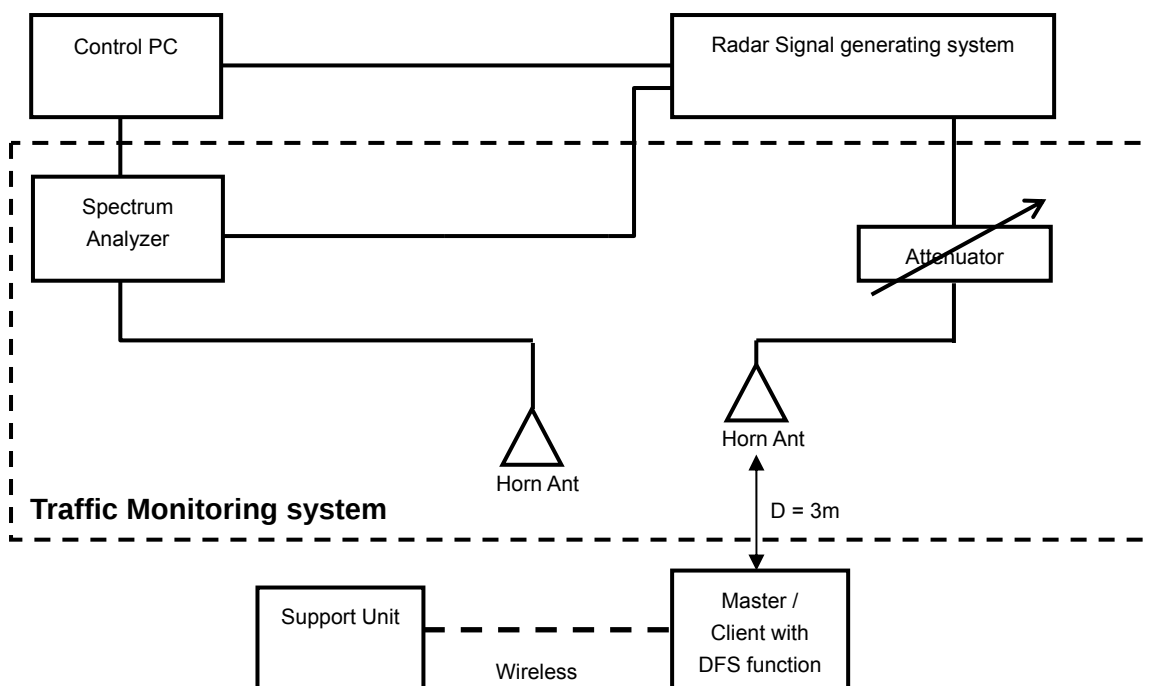
**NOTE:** This firmware as a special mode for associated with EUT only.

## 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 (UUT).

#### 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.                  |   |

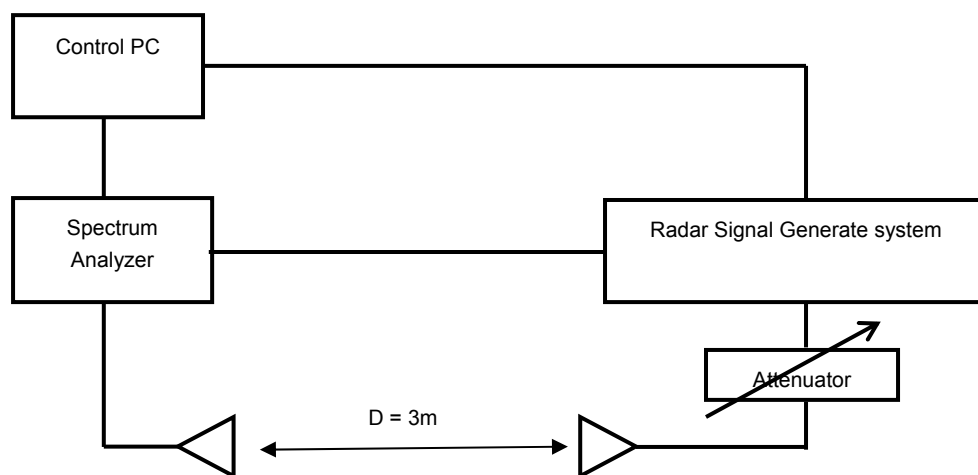
## 5.2 Calibration of DFS Detection Threshold Level

The measured channel is 5500MHz and 5510MHz and 5530MHz and 5570MHz. 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.



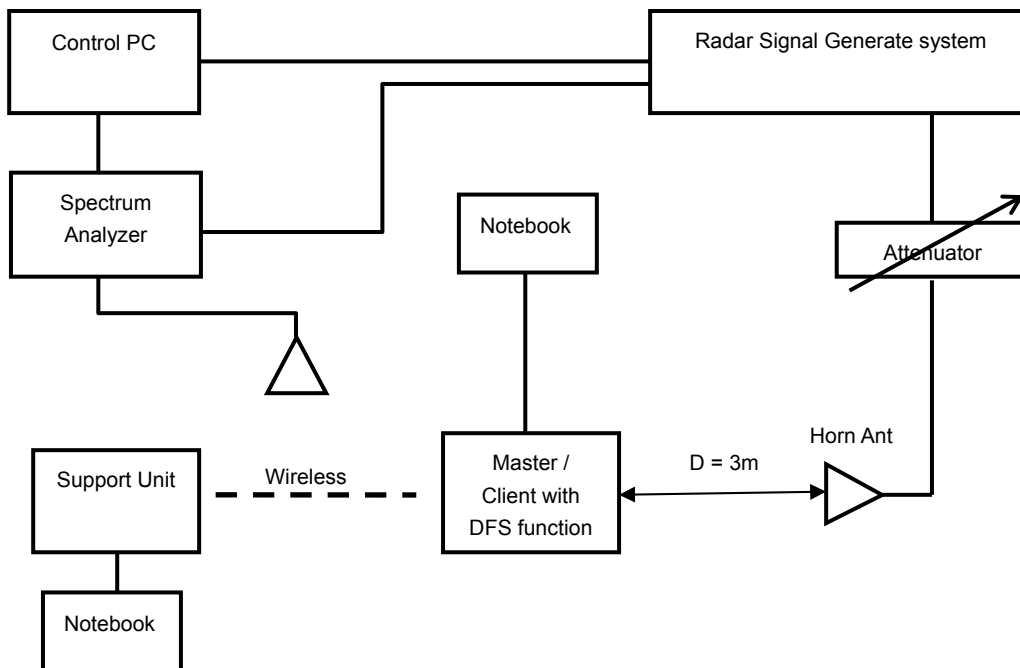
## 5.3 Deviation from Test Standard

No deviation.

## 5.4 Radiated Test Setup Configuration

### Master mode

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



Note: The UUT 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   | Applicable | Pass      |
| 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         | Applicable | Pass      |

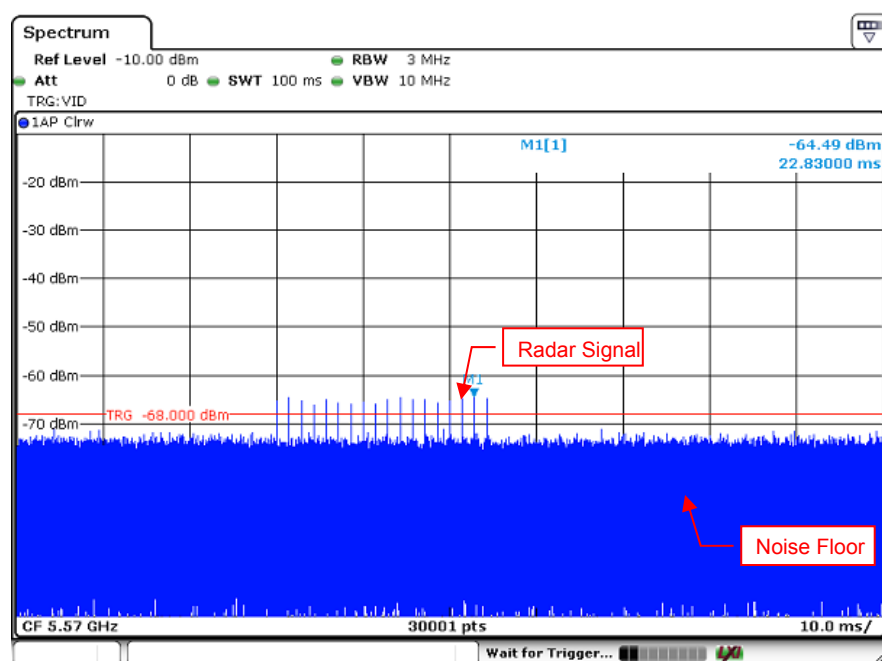
## 6.2 Test Results

### 6.2.1 Test Mode: Device Operating In Master Mode.

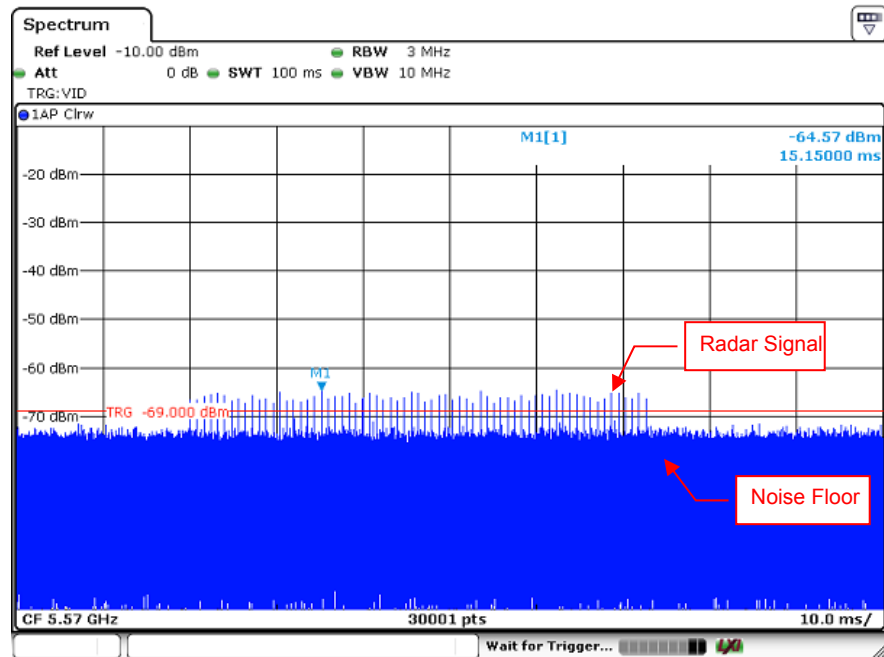
The radar test waveforms are injected into the Master.  
 This test was investigated for different bandwidth (20MHz · 40MHz · 80MHz and 160MHz).  
 The following plots was done on 160MHz as a representative

#### DFS Detection Threshold

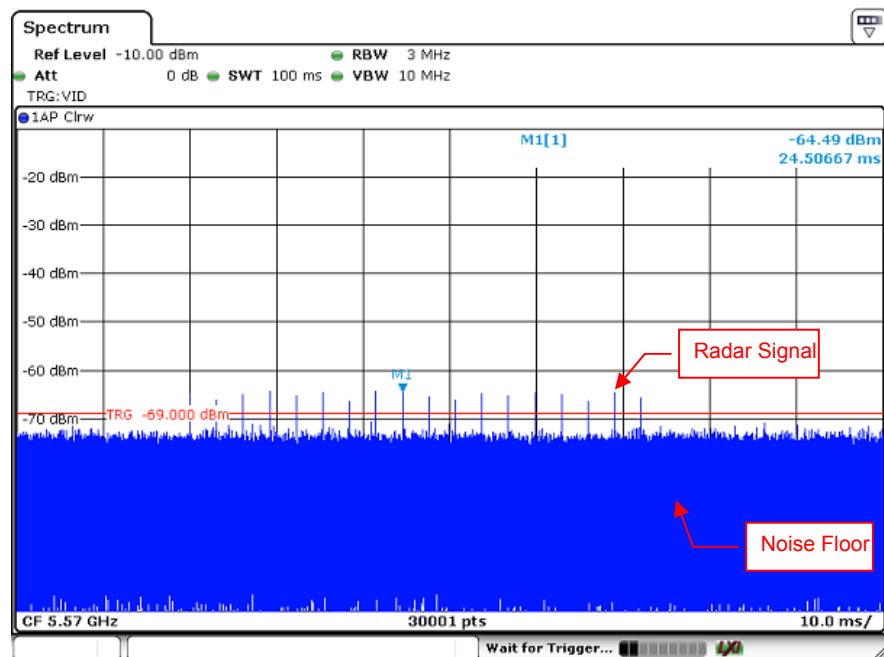
For detection threshold level of -64dBm, the tested level is lower than required level for 1dB, hence it provides margin to the limit.



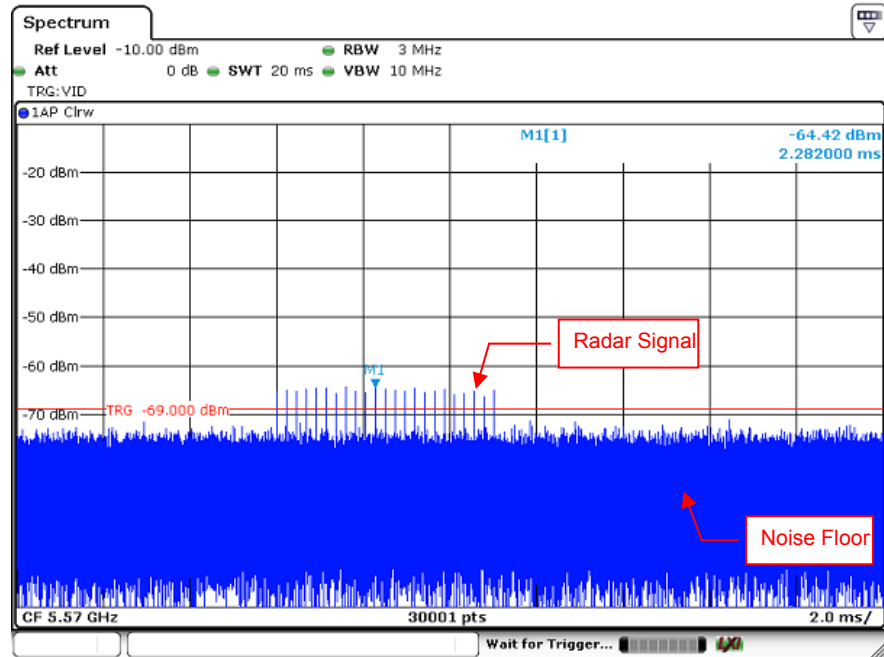
Radar Signal 0



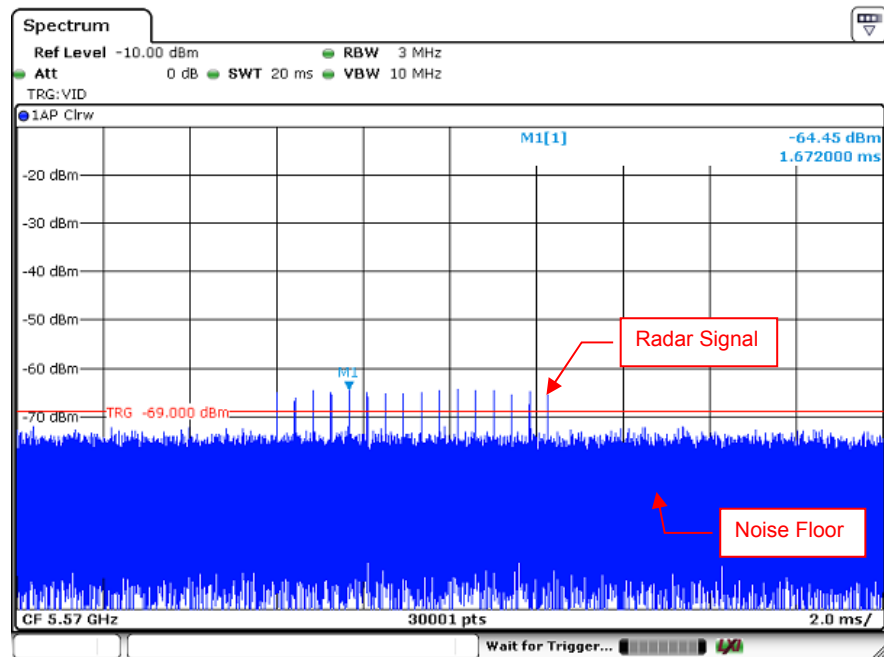
Radar Signal 1 (Test A)



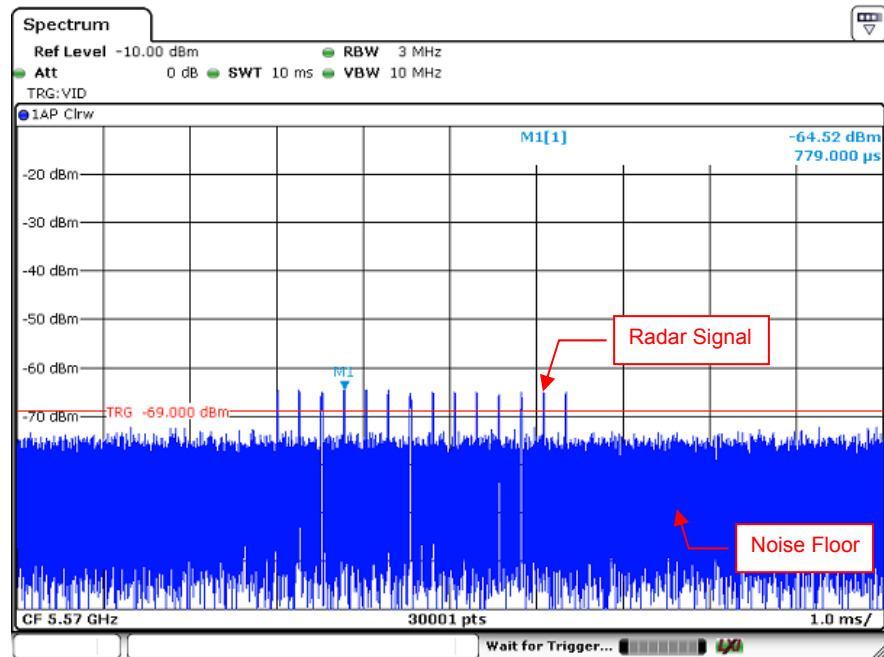
Radar Signal 1 (Test B)



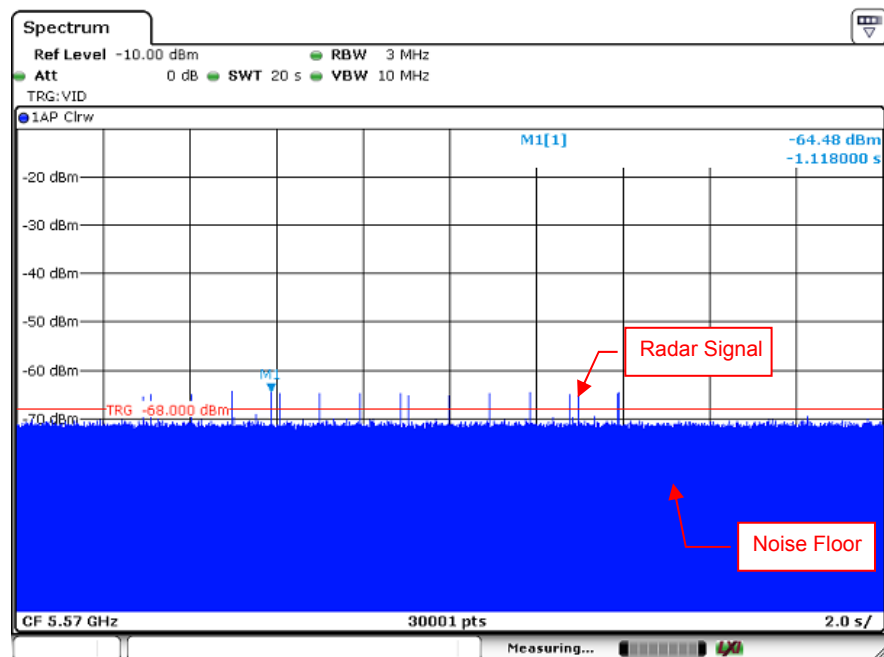
Radar Signal 2



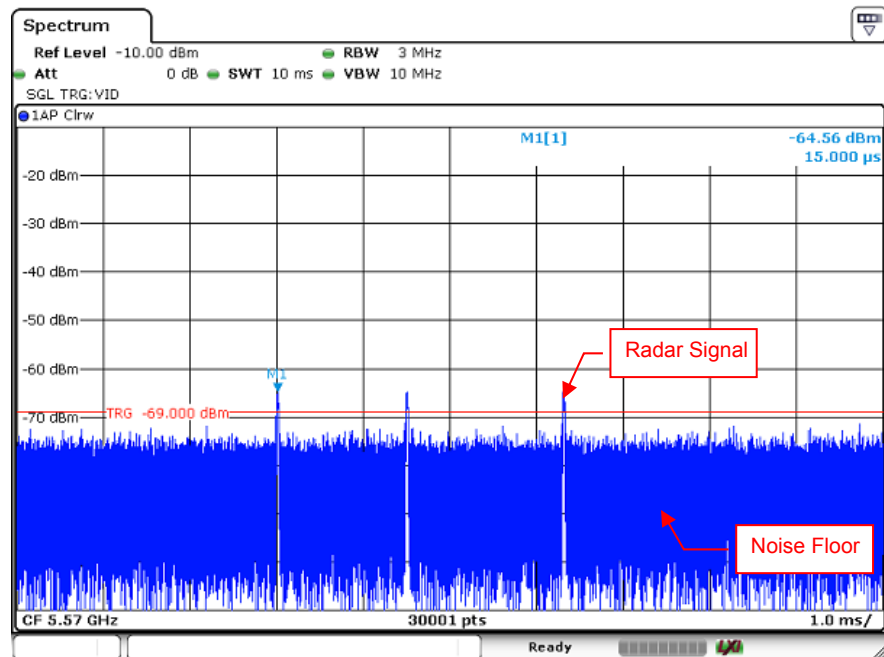
Radar Signal 3



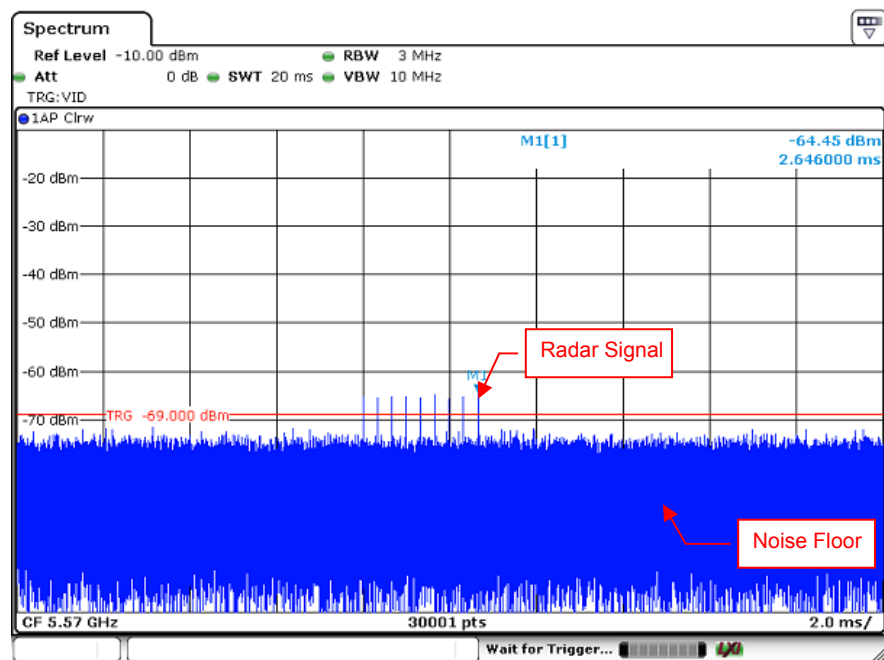
Single Burst of Radar Signal 4



Radar Signal 5

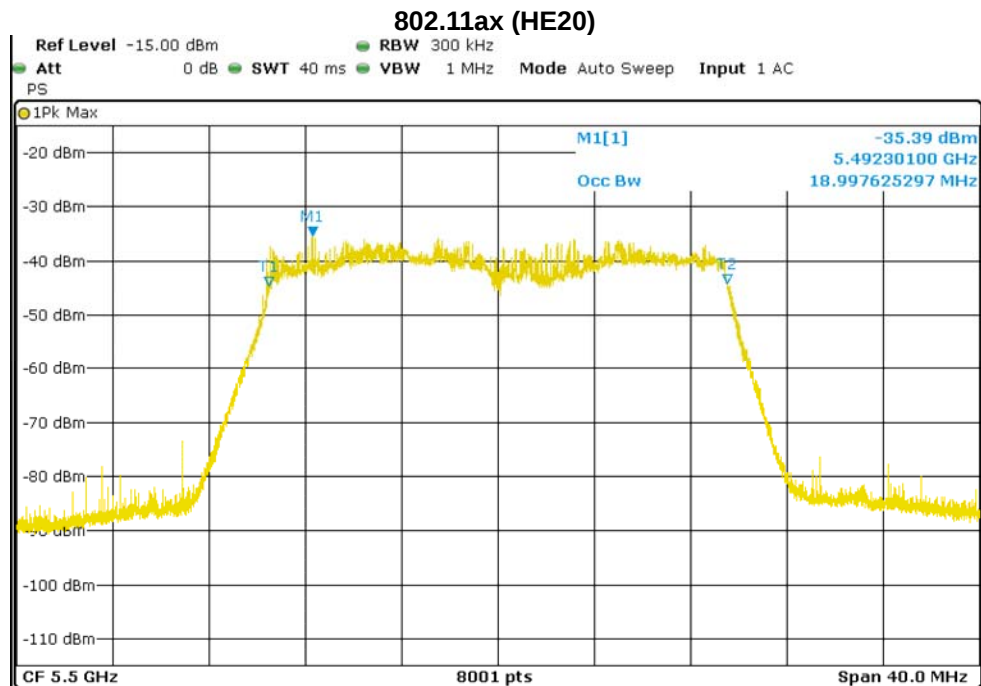


Single Burst of Radar Signal 5

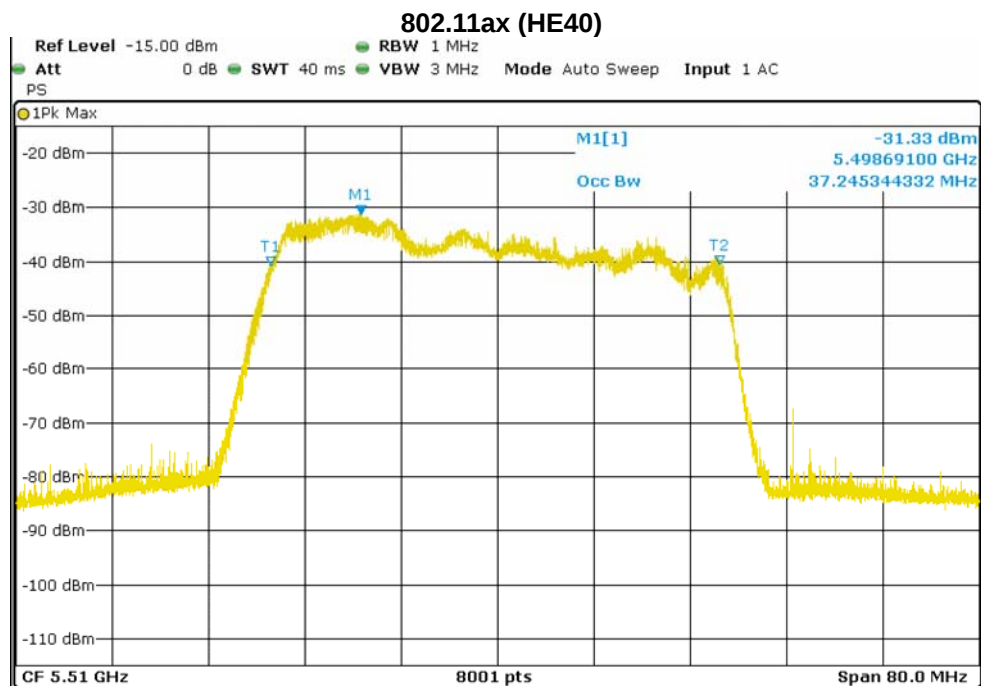


Radar Signal 6

## 6.2.2 U-NII Detection Bandwidth

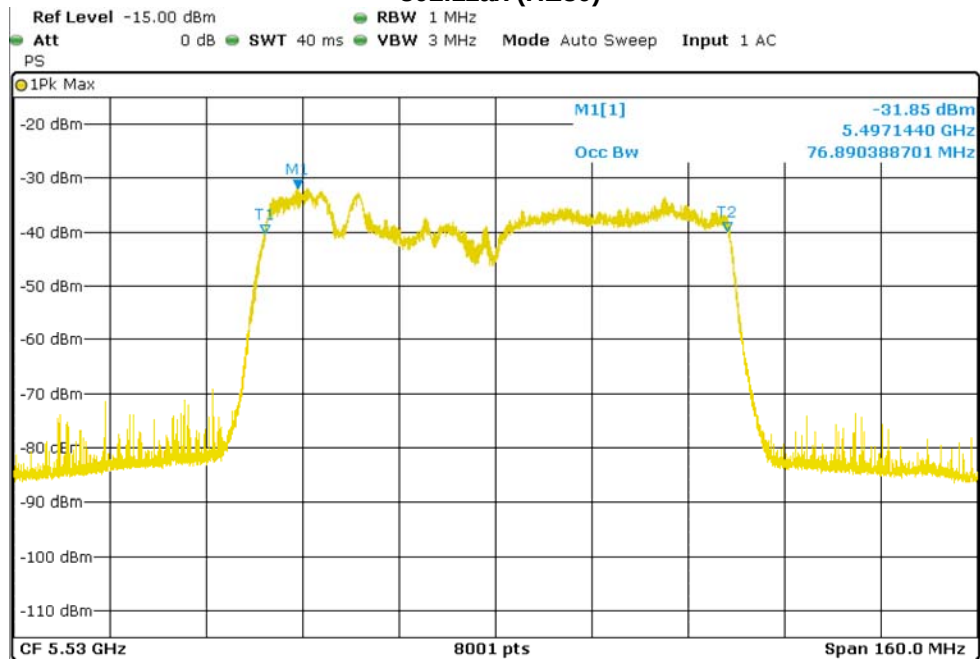


U-NII 99% Channel bandwidth



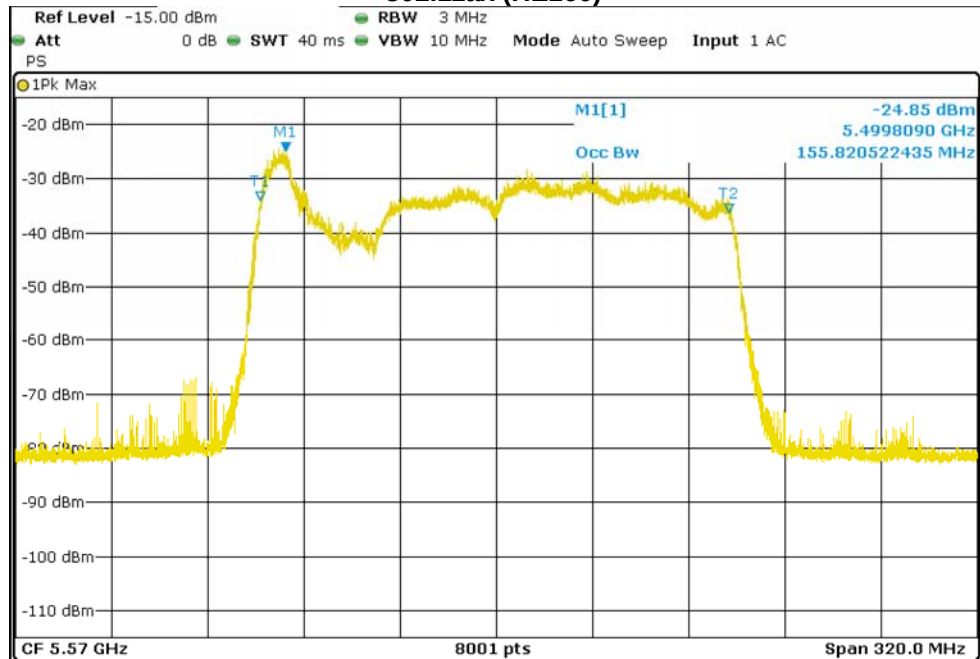
U-NII 99% Channel bandwidth

### 802.11ax (HE80)



U-NII 99% Channel bandwidth

### 802.11ax (HE160)



U-NII 99% Channel bandwidth

**Detection Bandwidth Test - 802.11ax (HE20)**

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 18.998MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 18.998MHz

Detection bandwidth (5509.5(FH) – 5490.5(FL)) : 19MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|-----------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
|                             | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5490.5(FL)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5491                        | 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 | 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 | Yes | Yes | Yes | Yes | 100                   |
| 5509                        | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5509.5(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: 37.245MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.245MHz

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 | 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 | Yes | Yes | Yes | Yes | 100                |
| 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(FH)              | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |

**Detection Bandwidth Test - 802.11ax (HE80)**

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 76.89MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 76.89MHz

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

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>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 | Yes | Yes | Yes | 100                   |
| 5497                        | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5498                        | Yes                      | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | Yes | 90                    |
| 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                        | 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                        | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 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 | Yes | Yes | Yes | 100 |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 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 |

**Detection Bandwidth Test - 802.11ax (HE160)**

Radar Type 0

EUT Frequency: 5570MHz

EUT 99% Power bandwidth: 155.82MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 155.82MHz

Detection bandwidth (5648 (FH) – 5492 (FL)) : 156MHz

Test Result : PASS

| Radar Frequency (MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5492(FL)              | 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                  | 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                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5511                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5512                  | No                       | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90                 |
| 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                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 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 | Yes | Yes | Yes | 100 |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | 90  |
| 5570 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5571 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5572 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5573 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5574 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5575 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5576 | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90  |
| 5577 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5578 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5579 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5580 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5581 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5582 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5583 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5584 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5585 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5586 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5587 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5588 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5589 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5590 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5591 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |

Report Format Version: 6.1.2

|          |     |     |     |     |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5647     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5648(FH) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |

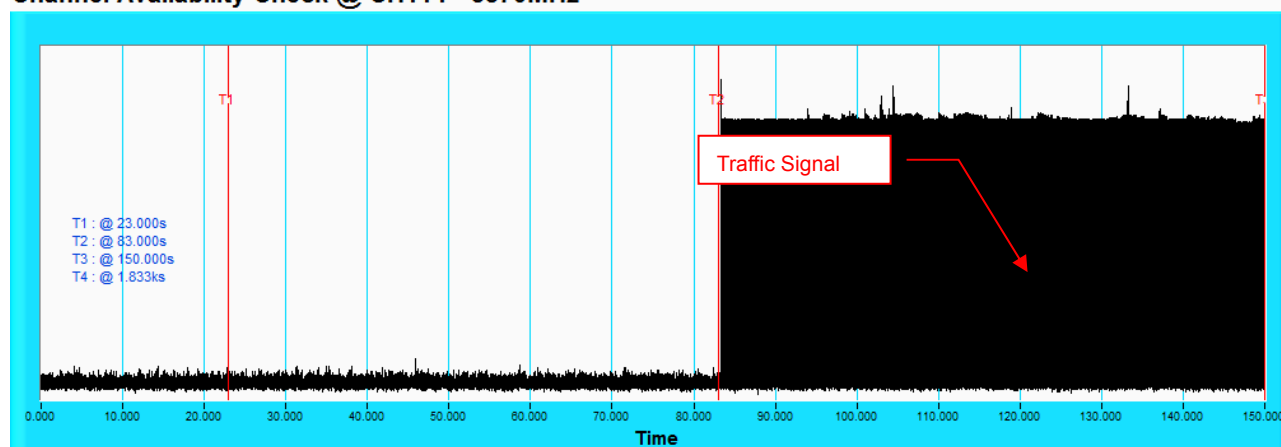
### 6.2.3 Channel Availability Check Time

If the EUT successfully detected the radar burst, it should be observed as the EUT has no transmissions occurred until the EUT starts transmitting on another channel.

| Timing of Radar Signal | Observation |                   |
|------------------------|-------------|-------------------|
|                        | EUT         | Spectrum Analyzer |
| Within 1 to 6 second   | Detected    | No transmissions  |
| Within 54 to 60 second | Detected    | No transmissions  |

### Initial Channel Availability Check Time

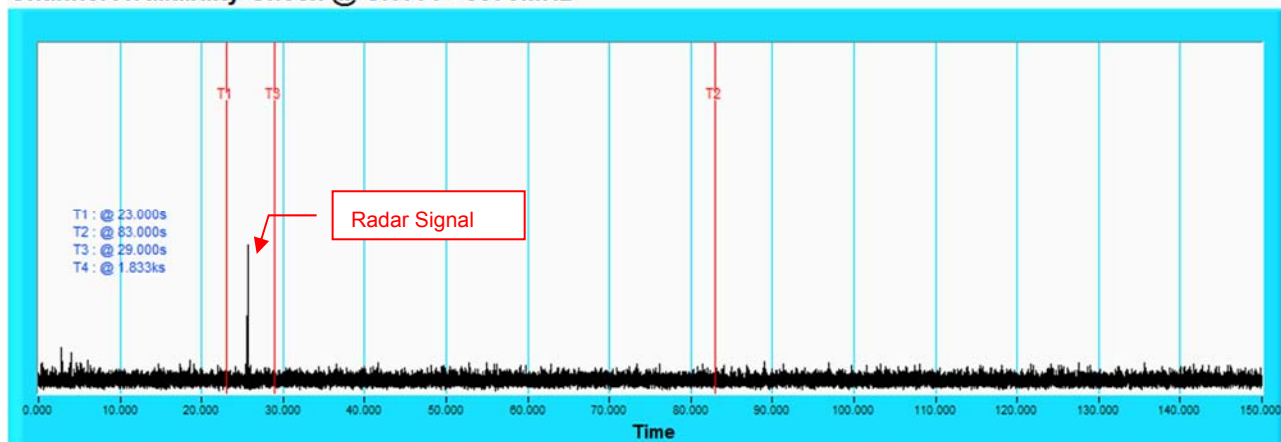
#### Channel Availability Check @ CH114 - 5570MHz



**NOTE:** T1 denotes the end of power-up time period is 23<sup>th</sup> second. T2 denotes the end of Channel Availability Check time is 83<sup>th</sup> second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

## Radar Burst at the Beginning of the Channel Availability Check Time

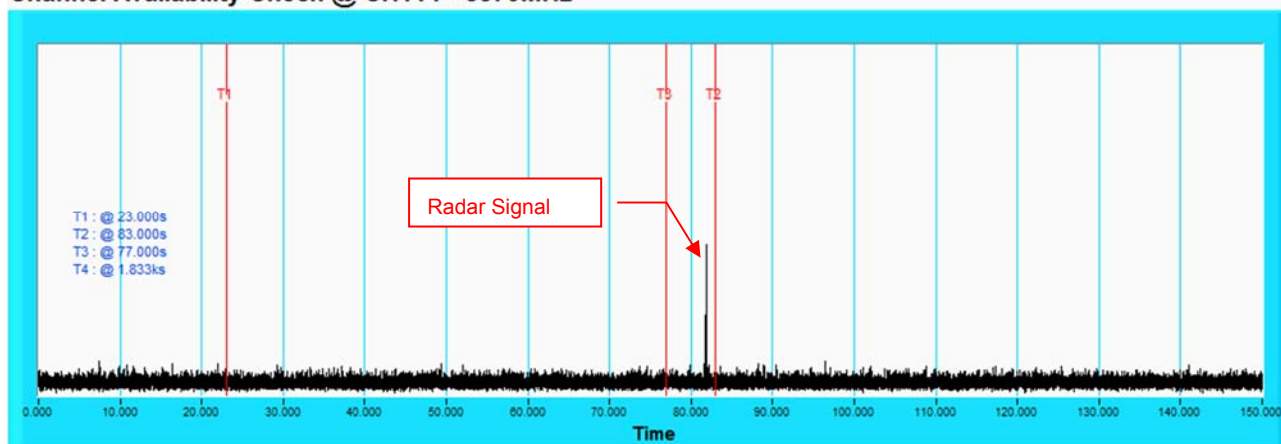
### Channel Availability Check @ CH114 - 5570MHz



**NOTE:** T1 denotes the end of power up time period is 23<sup>th</sup> second. T3 denotes 29<sup>th</sup> second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T2 denotes the 83<sup>th</sup> second.

## Radar Burst at the End of the Channel Availability Check Time

### Channel Availability Check @ CH114 - 5570MHz



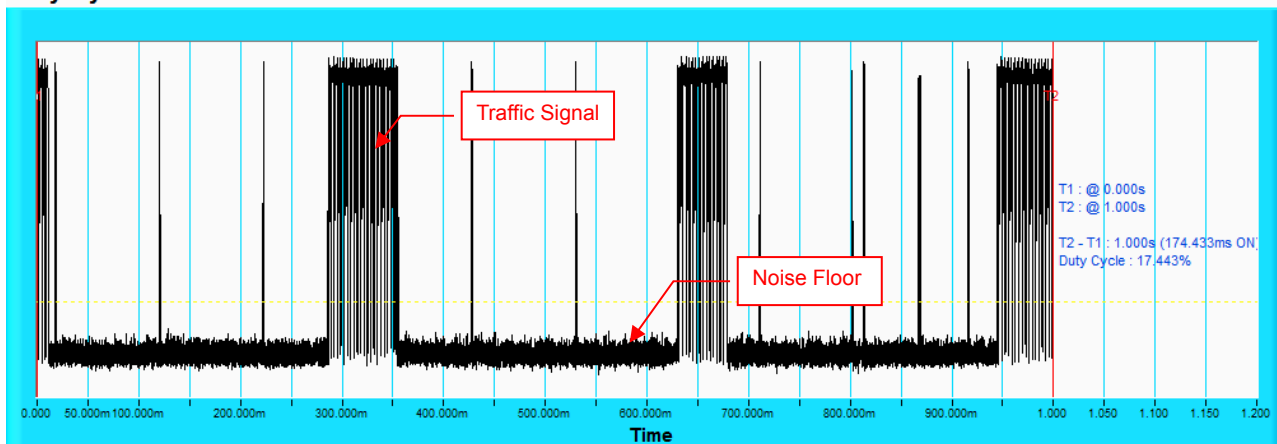
**NOTE:** T1 denotes the end of power up time period is 23<sup>th</sup> second. T3 denotes 77<sup>th</sup> second and the radar burst was commenced within 54<sup>th</sup> second to 60<sup>th</sup> second window starting from the end of power-up sequence. T2 denotes the 83<sup>th</sup> second.

## 6.2.4 Channel Closing Transmission and Channel Move Time

### Wireless Traffic Loading

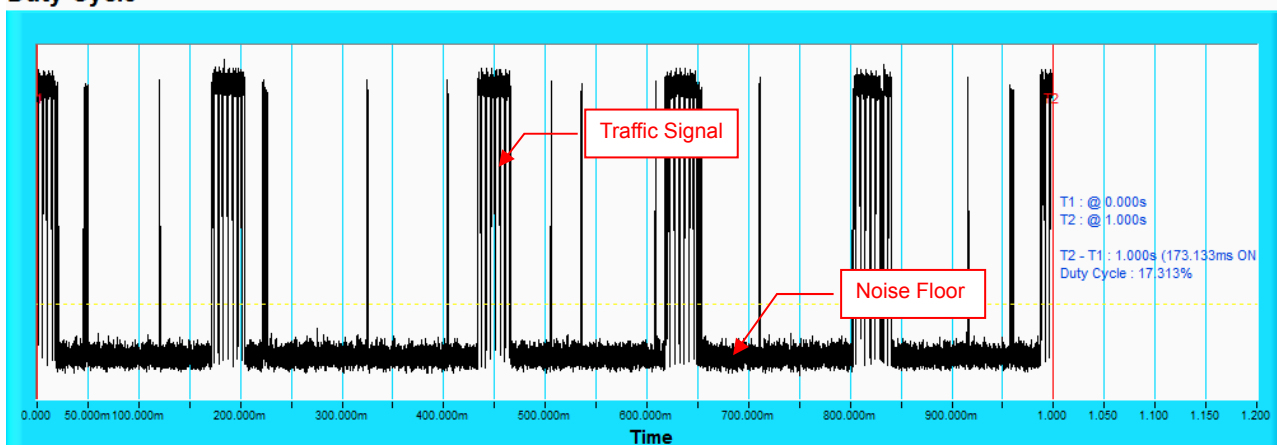
#### 802.11ax (HE20)

##### Duty Cycle



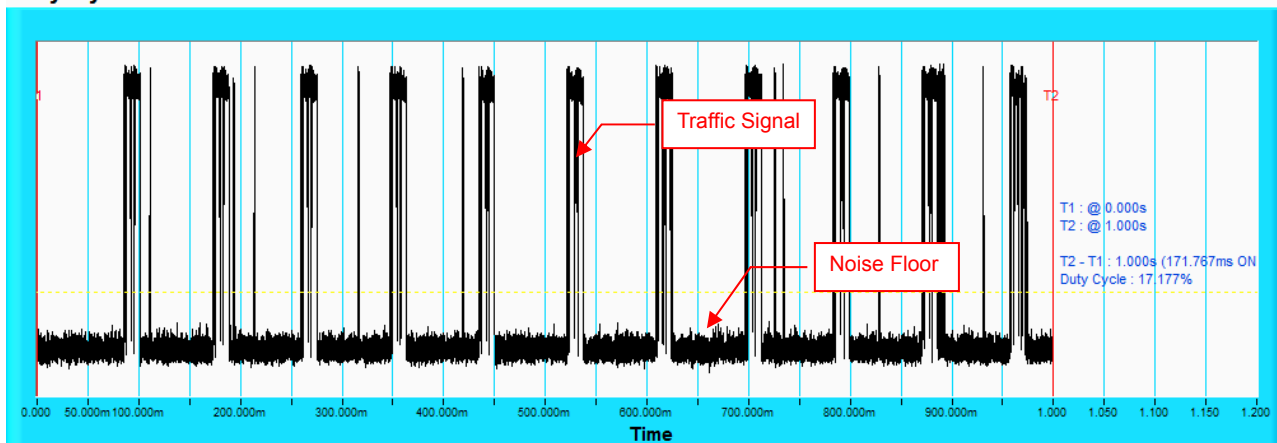
#### 802.11ax (HE40)

##### Duty Cycle



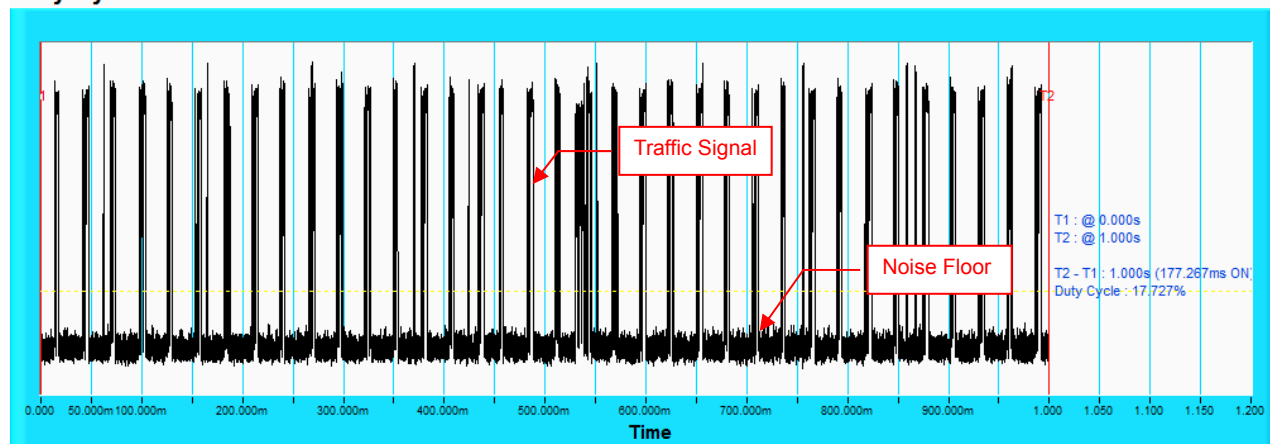
#### 802.11ax (HE80)

##### Duty Cycle



## 802.11ax (HE160)

### Duty Cycle



### 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                           | Test A<br>15 unique PRI values randomly selected from the list of 23 PRI values                                                          | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 18               | 30                      | 93.3                                   |
|                             | 15 unique PRI values randomly selected within the range of 518~3066μsec with a minimum of 1μsec, excluding PRI values selected in Test A |                                                                                                                               |                  |                         |                                        |
| 2                           | 1-5                                                                                                                                      | 150-230                                                                                                                       | 23-29            | 30                      | 76.7                                   |
| 3                           | 6-10                                                                                                                                     | 200-500                                                                                                                       | 16-18            | 30                      | 76.7                                   |
| 4                           | 11-20                                                                                                                                    | 200-500                                                                                                                       | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                          |                                                                                                                               |                  | 120                     | 82.5                                   |

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 (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                           | Test A<br>15 unique PRI values randomly selected from the list of 23 PRI values                                                          | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 18               | 30                      | 96.7                                   |
|                             | 15 unique PRI values randomly selected within the range of 518~3066μsec with a minimum of 1μsec, excluding PRI values selected in Test A |                                                                                                                               |                  |                         |                                        |
| 2                           | 1-5                                                                                                                                      | 150-230                                                                                                                       | 23-29            | 30                      | 86.7                                   |
| 3                           | 6-10                                                                                                                                     | 200-500                                                                                                                       | 16-18            | 30                      | 86.7                                   |
| 4                           | 11-20                                                                                                                                    | 200-500                                                                                                                       | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                          |                                                                                                                               |                  | 120                     | 88.4                                   |

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                      | 86.7                                   |

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                           | Test A<br>15 unique PRI values randomly selected from the list of 23 PRI values                                                          | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 18               | 30                      | 96.7                                   |
|                             | 15 unique PRI values randomly selected within the range of 518~3066μsec with a minimum of 1μsec, excluding PRI values selected in Test A |                                                                                                                               |                  |                         |                                        |
| 2                           | 1-5                                                                                                                                      | 150-230                                                                                                                       | 23-29            | 30                      | 80                                     |
| 3                           | 6-10                                                                                                                                     | 200-500                                                                                                                       | 16-18            | 30                      | 80                                     |
| 4                           | 11-20                                                                                                                                    | 200-500                                                                                                                       | 12-16            | 30                      | 73.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                          |                                                                                                                               |                  | 120                     | 82.5                                   |

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                      | 100                                    |

### 802.11ax (HE160)

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                           | Test A<br>15 unique PRI values randomly selected from the list of 23 PRI values                                                          | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI } \mu\text{sec}} \right) \right\}$ | 18               | 30                      | 96.7                                   |
|                             | 15 unique PRI values randomly selected within the range of 518~3066μsec with a minimum of 1μsec, excluding PRI values selected in Test A |                                                                                                                              |                  |                         |                                        |
| 2                           | 1-5                                                                                                                                      | 150-230                                                                                                                      | 23-29            | 30                      | 80                                     |
| 3                           | 6-10                                                                                                                                     | 200-500                                                                                                                      | 16-18            | 30                      | 76.7                                   |
| 4                           | 11-20                                                                                                                                    | 200-500                                                                                                                      | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                          |                                                                                                                              |                  | 120                     | 84.2                                   |

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                                   |

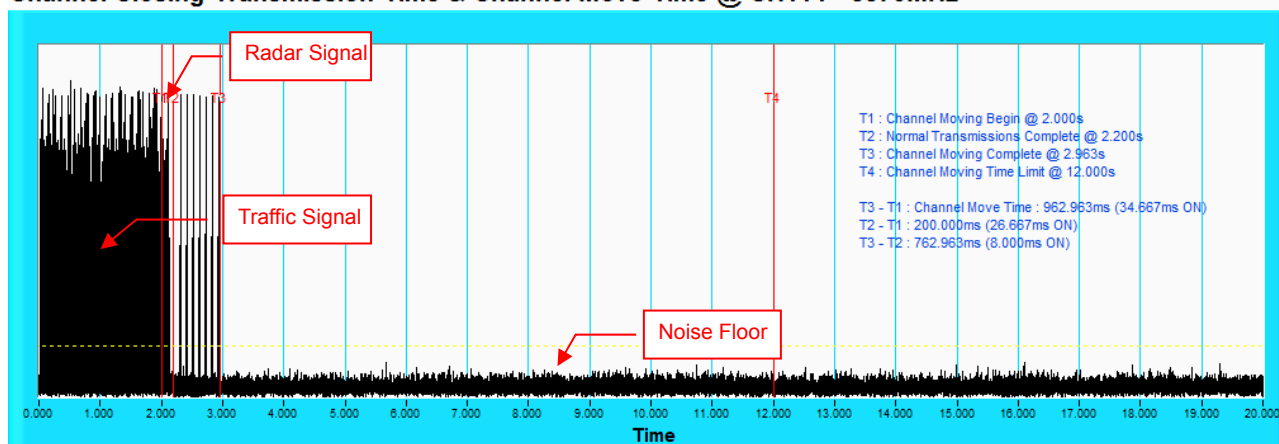
Table 3: Frequency Hopping Radar Test Waveform

| 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                      | 96.7                                   |

## Radar signal 0

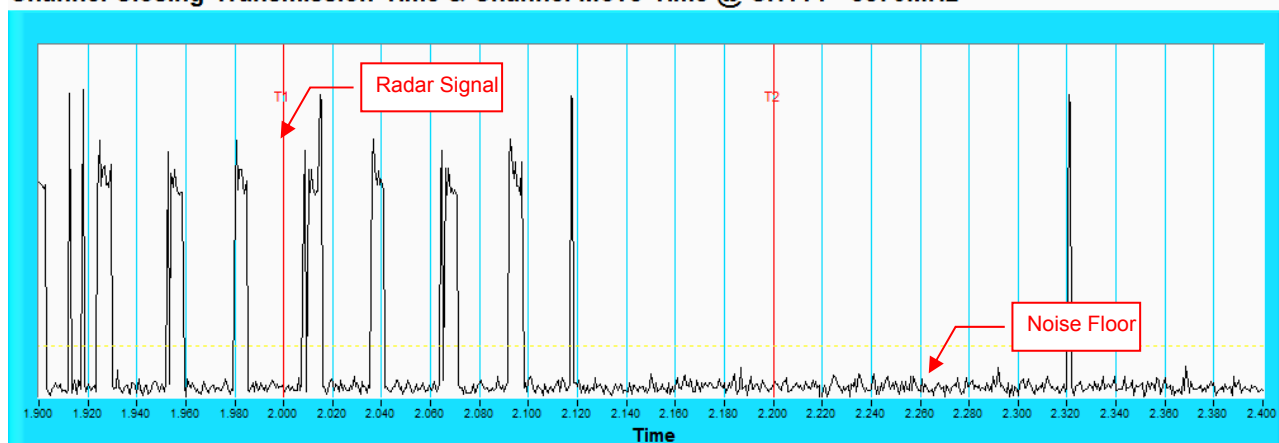
802.11ax (HE160)

### Channel Closing Transmission Time & Channel Move Time @ CH114 - 5570MHz



**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 @ CH114 - 5570MHz

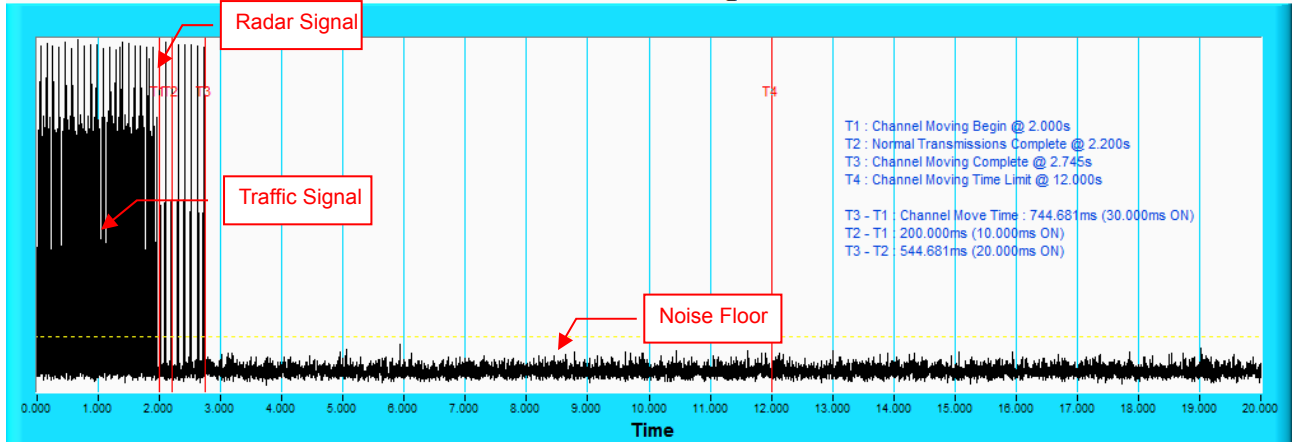


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 1

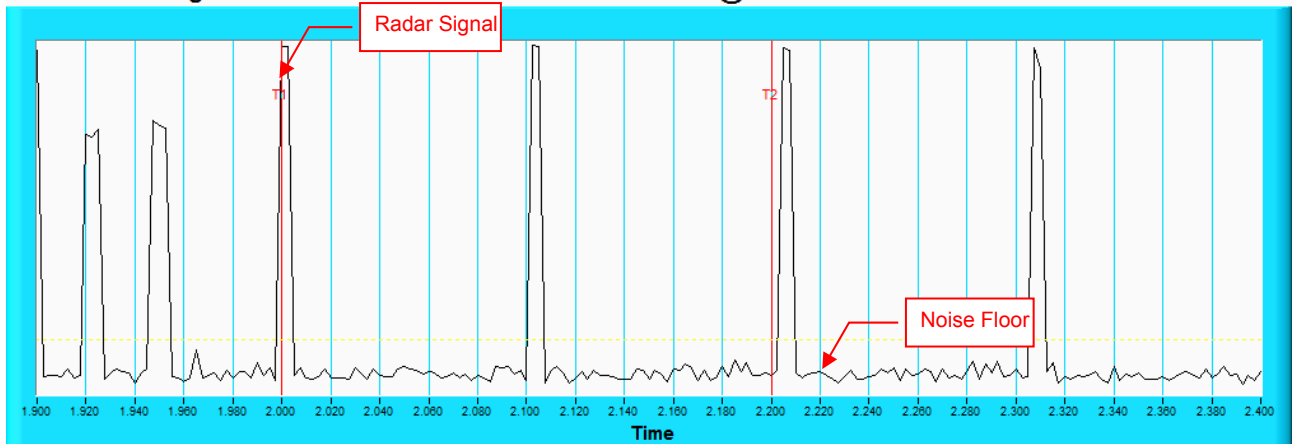
802.11ax (HE160)

### Channel Closing Transmission Time & Channel Move Time @ CH114 - 5570MHz



**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 @ CH114 - 5570MHz

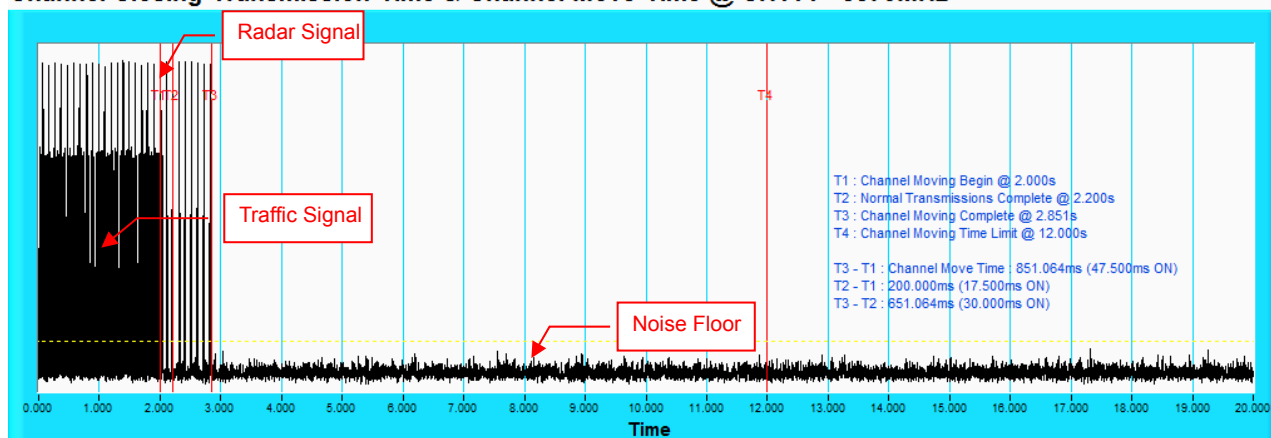


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 2

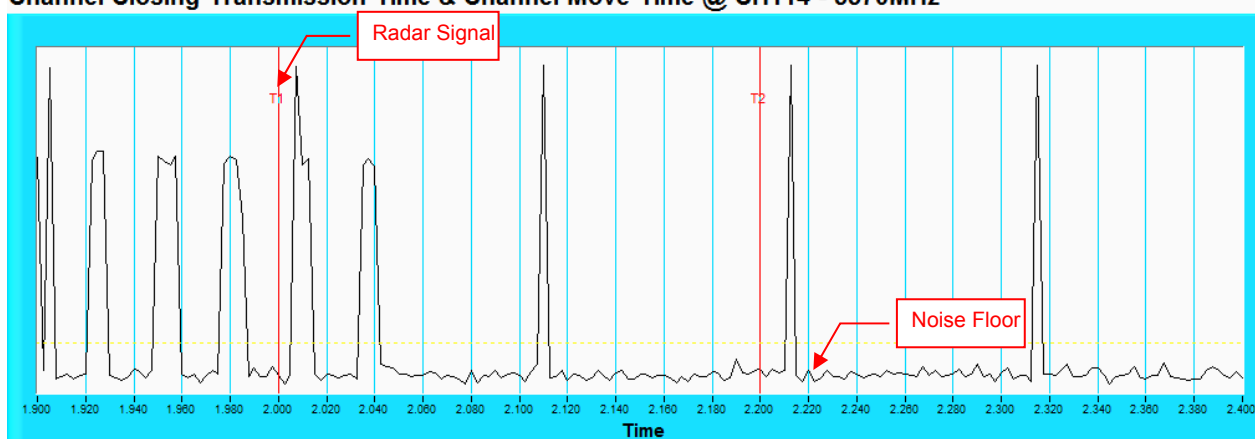
802.11ax (HE160)

### Channel Closing Transmission Time & Channel Move Time @ CH114 - 5570MHz



**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 @ CH114 - 5570MHz

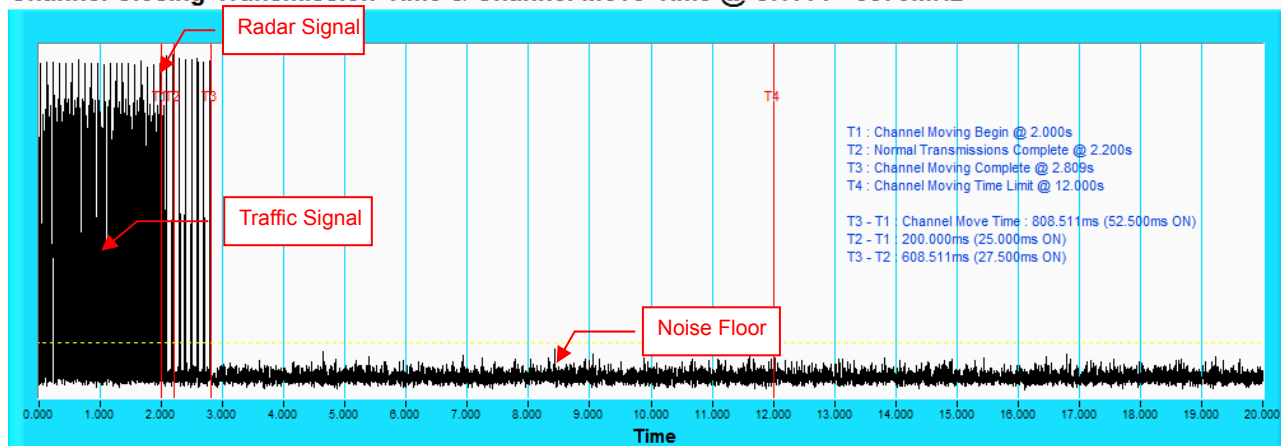


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 3

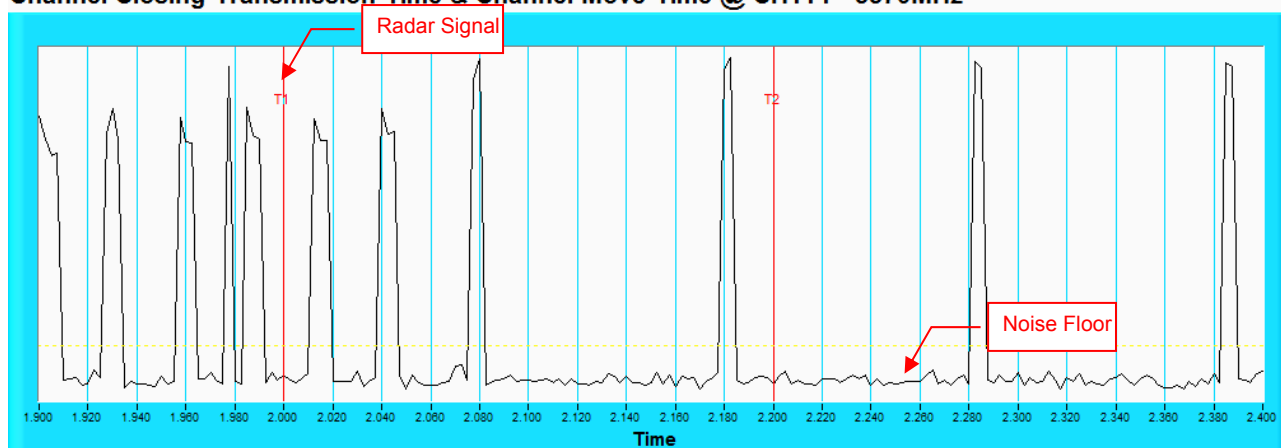
802.11ax (HE160)

### Channel Closing Transmission Time & Channel Move Time @ CH114 - 5570MHz



**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 @ CH114 - 5570MHz

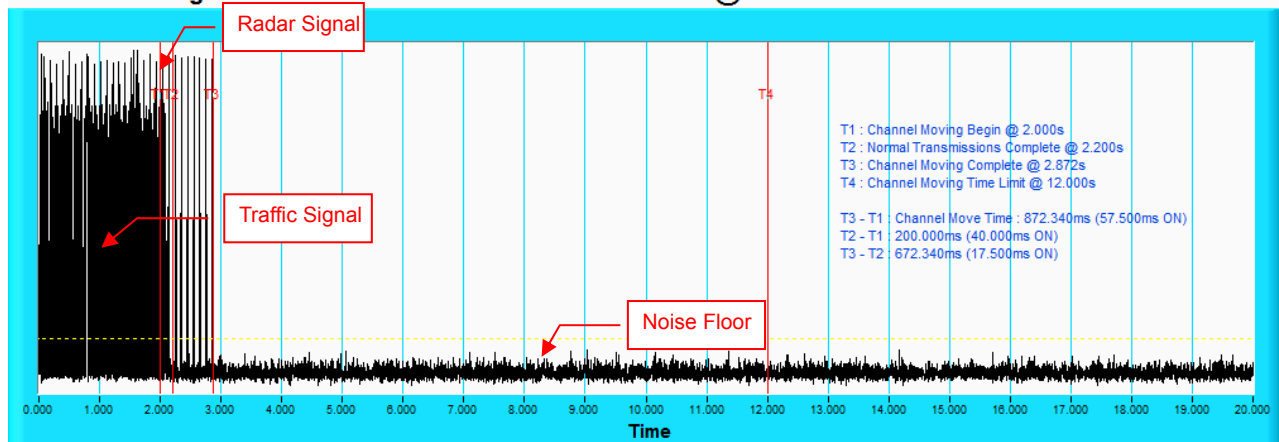


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 4

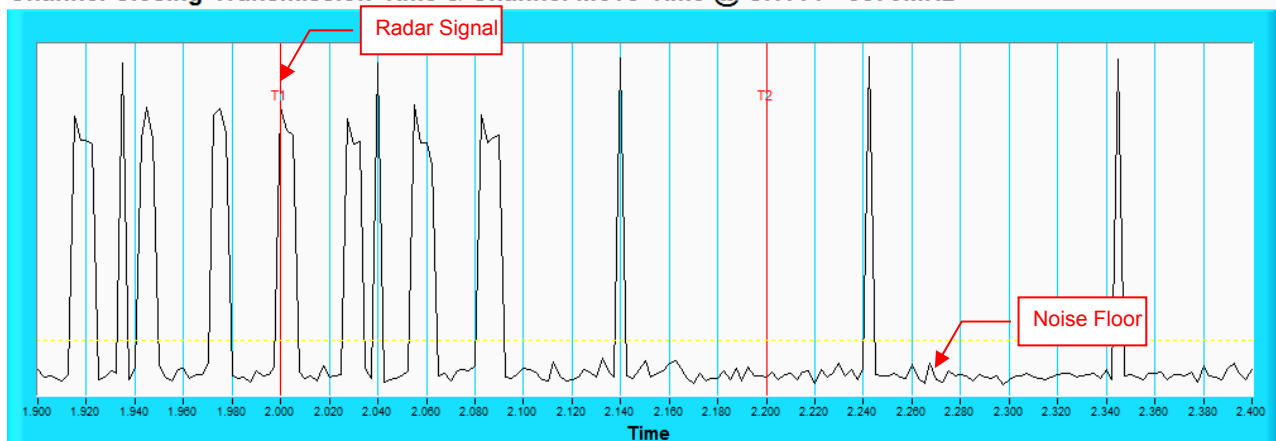
802.11ax (HE160)

### Channel Closing Transmission Time & Channel Move Time @ CH114 - 5570MHz



**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 @ CH114 - 5570MHz



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

## 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 (ms) | Detection |
|---------|----------------------|---------------------------------------------|----------------------------------|------------------|--------------------------------|-----------|
| 1       | 5500                 | 15                                          | 1253                             | 67               | 798                            | Yes       |
| 2       | 5502                 | 16                                          | 1223                             | 65               | 818                            | Yes       |
| 3       | 5508                 | 4                                           | 1730                             | 92               | 578                            | Yes       |
| 4       | 5498                 | 11                                          | 1393                             | 74               | 718                            | Yes       |
| 5       | 5492                 | 22                                          | 1066                             | 57               | 938                            | Yes       |
| 6       | 5503                 | 7                                           | 1567                             | 83               | 638                            | Yes       |
| 7       | 5503                 | 2                                           | 1859                             | 99               | 538                            | Yes       |
| 8       | 5501                 | 8                                           | 1520                             | 81               | 658                            | Yes       |
| 9       | 5501                 | 1                                           | 1931                             | 102              | 518                            | Yes       |
| 10      | 5507                 | 19                                          | 1139                             | 61               | 878                            | Yes       |
| 11      | 5508                 | 21                                          | 1089                             | 58               | 918                            | Yes       |
| 12      | 5501                 | 23                                          | 326.2                            | 18               | 3066                           | No        |
| 13      | 5499                 | 9                                           | 1475                             | 78               | 678                            | Yes       |
| 14      | 5508                 | 5                                           | 1672                             | 89               | 598                            | Yes       |
| 15      | 5506                 | 6                                           | 1618                             | 86               | 618                            | Yes       |
| 16      | 5496                 | -                                           | 1111                             | 59               | 900                            | Yes       |
| 17      | 5506                 | -                                           | 1024                             | 55               | 977                            | Yes       |
| 18      | 5493                 | -                                           | 625.8                            | 34               | 1598                           | Yes       |
| 19      | 5496                 | -                                           | 730.5                            | 39               | 1369                           | Yes       |
| 20      | 5509                 | -                                           | 1181                             | 63               | 847                            | Yes       |
| 21      | 5506                 | -                                           | 400.6                            | 22               | 2496                           | Yes       |
| 22      | 5491                 | -                                           | 529.4                            | 28               | 1889                           | Yes       |
| 23      | 5497                 | -                                           | 347.6                            | 19               | 2877                           | Yes       |
| 24      | 5500                 | -                                           | 641.4                            | 34               | 1559                           | Yes       |
| 25      | 5496                 | -                                           | 508.9                            | 27               | 1965                           | Yes       |
| 26      | 5508                 | -                                           | 345.4                            | 19               | 2895                           | Yes       |
| 27      | 5508                 | -                                           | 580.7                            | 31               | 1722                           | No        |
| 28      | 5497                 | -                                           | 786.8                            | 42               | 1271                           | Yes       |
| 29      | 5508                 | -                                           | 808.4                            | 43               | 1237                           | Yes       |
| 30      | 5499                 | -                                           | 517.1                            | 28               | 1934                           | Yes       |

Detection Rate : 93.3%

Note. “ - “ : 15 unique PRI values randomly selected within the range of 518-3066  $\mu$ sec, with a minimum increment of 1 $\mu$ sec, 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               | 1.7             | 174     | Yes       |
| 2       | 5497                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5493                 | 28               | 4               | 161     | Yes       |
| 4       | 5496                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5498                 | 24               | 1.9             | 193     | No        |
| 6       | 5496                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5494                 | 29               | 4.5             | 198     | No        |
| 8       | 5507                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5495                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5504                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5502                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5497                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5507                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5509                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5505                 | 29               | 5               | 170     | Yes       |
| 16      | 5497                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5500                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5500                 | 25               | 2.6             | 208     | No        |
| 19      | 5498                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5498                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5495                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5494                 | 28               | 4               | 160     | No        |
| 23      | 5494                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5495                 | 23               | 1               | 205     | No        |
| 25      | 5499                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5492                 | 25               | 2.5             | 186     | No        |
| 27      | 5502                 | 23               | 1.5             | 190     | No        |
| 28      | 5498                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5508                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5505                 | 24               | 1.7             | 216     | Yes       |

Detection Rate : 76.7%

**802.11ax (HE20)**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5500                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5495                 | 18               | 9               | 316     | Yes       |
| 4       | 5495                 | 18               | 9.3             | 439     | No        |
| 5       | 5491                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5492                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5502                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5496                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5507                 | 17               | 7.8             | 212     | No        |
| 10      | 5504                 | 17               | 8.6             | 236     | No        |
| 11      | 5503                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5492                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5494                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5492                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5496                 | 18               | 10              | 395     | Yes       |
| 16      | 5502                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5493                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5499                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5499                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5505                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5498                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5504                 | 18               | 9               | 411     | No        |
| 23      | 5504                 | 17               | 7.5             | 279     | No        |
| 24      | 5496                 | 16               | 6               | 431     | No        |
| 25      | 5497                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5493                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5508                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5497                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5495                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5495                 | 16               | 6.7             | 270     | No        |

Detection Rate : 76.7%

**802.11ax (HE20)**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5508                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5501                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5493                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5504                 | 13               | 13.1            | 420     | No        |
| 6       | 5497                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5503                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5504                 | 14               | 15.3            | 258     | No        |
| 9       | 5493                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5504                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5493                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5496                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5498                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5498                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5492                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5496                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5491                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5506                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5497                 | 13               | 12.9            | 423     | No        |
| 20      | 5497                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5501                 | 14               | 15.3            | 351     | No        |
| 22      | 5503                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5508                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5492                 | 12               | 11.1            | 431     | No        |
| 25      | 5501                 | 15               | 17              | 324     | Yes       |
| 26      | 5494                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5508                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5502                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5501                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5505                 | 12               | 12.7            | 270     | Yes       |

Detection Rate : 83.3%

# 802.11ax (HE20)

## Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection            |
|---------|--------------------------|-----------------------------|------------------|----------------------|
| 1       | 17                       | 5500                        | LP_Signal_01     | Yes                  |
| 2       | 7                        | 5500                        | LP_Signal_02     | Yes                  |
| 3       | 8                        | 5500                        | LP_Signal_03     | Yes                  |
| 4       | 19                       | 5500                        | LP_Signal_04     | Yes                  |
| 5       | 12                       | 5500                        | LP_Signal_05     | Yes                  |
| 6       | 11                       | 5500                        | LP_Signal_06     | No                   |
| 7       | 6                        | 5500                        | LP_Signal_07     | Yes                  |
| 8       | 20                       | 5500                        | LP_Signal_08     | Yes                  |
| 9       | 6                        | 5500                        | LP_Signal_09     | Yes                  |
| 10      | 12                       | 5500                        | LP_Signal_10     | Yes                  |
| 11      | 16                       | 5492                        | LP_Signal_11     | Yes                  |
| 12      | 20                       | 5492                        | LP_Signal_12     | No                   |
| 13      | 18                       | 5494                        | LP_Signal_13     | Yes                  |
| 14      | 12                       | 5497                        | LP_Signal_14     | Yes                  |
| 15      | 12                       | 5498                        | LP_Signal_15     | Yes                  |
| 16      | 15                       | 5495                        | LP_Signal_16     | Yes                  |
| 17      | 10                       | 5494                        | LP_Signal_17     | Yes                  |
| 18      | 12                       | 5494                        | LP_Signal_18     | Yes                  |
| 19      | 10                       | 5493                        | LP_Signal_19     | Yes                  |
| 20      | 20                       | 5492                        | LP_Signal_20     | Yes                  |
| 21      | 7                        | 5505                        | LP_Signal_21     | Yes                  |
| 22      | 20                       | 5503                        | LP_Signal_22     | Yes                  |
| 23      | 8                        | 5506                        | LP_Signal_23     | Yes                  |
| 24      | 17                       | 5508                        | LP_Signal_24     | No                   |
| 25      | 7                        | 5504                        | LP_Signal_25     | Yes                  |
| 26      | 14                       | 5506                        | LP_Signal_26     | Yes                  |
| 27      | 11                       | 5507                        | LP_Signal_27     | Yes                  |
| 28      | 7                        | 5508                        | LP_Signal_28     | Yes                  |
| 29      | 12                       | 5508                        | LP_Signal_29     | Yes                  |
| 30      | 8                        | 5507                        | LP_Signal_30     | Yes                  |
|         |                          |                             |                  | Detection Rate : 90% |

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                 | Yes                    |
| 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                 | No                     |
| 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                 | Yes                    |
| 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                 | No                     |
| 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                 | Yes                    |
| 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                 | Yes                    |
| 30      | 9                | 1               | 333.3   | HOP_FREQ_SEQ_30                 | Yes                    |
|         |                  |                 |         |                                 | Detection Rate : 93.3% |

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

**802.11ax (HE40)**
**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 (ms) | Detection |
|---------|----------------------|---------------------------------------------|----------------------------------|------------------|--------------------------------|-----------|
| 1       | 5510                 | 15                                          | 1253                             | 67               | 798                            | Yes       |
| 2       | 5520                 | 16                                          | 1223                             | 65               | 818                            | Yes       |
| 3       | 5500                 | 4                                           | 1730                             | 92               | 578                            | Yes       |
| 4       | 5527                 | 11                                          | 1393                             | 74               | 718                            | Yes       |
| 5       | 5499                 | 22                                          | 1066                             | 57               | 938                            | Yes       |
| 6       | 5522                 | 7                                           | 1567                             | 83               | 638                            | Yes       |
| 7       | 5527                 | 2                                           | 1859                             | 99               | 538                            | Yes       |
| 8       | 5517                 | 8                                           | 1520                             | 81               | 658                            | Yes       |
| 9       | 5506                 | 1                                           | 1931                             | 102              | 518                            | Yes       |
| 10      | 5496                 | 19                                          | 1139                             | 61               | 878                            | Yes       |
| 11      | 5513                 | 21                                          | 1089                             | 58               | 918                            | Yes       |
| 12      | 5506                 | 23                                          | 326.2                            | 18               | 3066                           | Yes       |
| 13      | 5512                 | 9                                           | 1475                             | 78               | 678                            | Yes       |
| 14      | 5522                 | 5                                           | 1672                             | 89               | 598                            | Yes       |
| 15      | 5510                 | 6                                           | 1618                             | 86               | 618                            | Yes       |
| 16      | 5518                 | -                                           | 1111                             | 59               | 900                            | Yes       |
| 17      | 5494                 | -                                           | 1024                             | 55               | 977                            | Yes       |
| 18      | 5526                 | -                                           | 625.8                            | 34               | 1598                           | Yes       |
| 19      | 5501                 | -                                           | 730.5                            | 39               | 1369                           | Yes       |
| 20      | 5510                 | -                                           | 1181                             | 63               | 847                            | Yes       |
| 21      | 5501                 | -                                           | 400.6                            | 22               | 2496                           | Yes       |
| 22      | 5500                 | -                                           | 529.4                            | 28               | 1889                           | Yes       |
| 23      | 5503                 | -                                           | 347.6                            | 19               | 2877                           | Yes       |
| 24      | 5527                 | -                                           | 641.4                            | 34               | 1559                           | Yes       |
| 25      | 5513                 | -                                           | 508.9                            | 27               | 1965                           | Yes       |
| 26      | 5503                 | -                                           | 345.4                            | 19               | 2895                           | Yes       |
| 27      | 5509                 | -                                           | 580.7                            | 31               | 1722                           | No        |
| 28      | 5510                 | -                                           | 786.8                            | 42               | 1271                           | Yes       |
| 29      | 5520                 | -                                           | 808.4                            | 43               | 1237                           | Yes       |
| 30      | 5500                 | -                                           | 517.1                            | 28               | 1934                           | Yes       |

Detection Rate : 96.7%

Note. “ - “ : 15 unique PRI values randomly selected within the range of 518-3066  $\mu$ sec, with a minimum increment of 1 $\mu$ sec, excluding PRI values selected in Test A

**802.11ax (HE40)**
**Type 2 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5520                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5500                 | 28               | 4               | 161     | Yes       |
| 4       | 5520                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5496                 | 24               | 1.9             | 193     | No        |
| 6       | 5492                 | 23               | 1.1             | 230     | No        |
| 7       | 5518                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5501                 | 26               | 2.9             | 227     | No        |
| 9       | 5504                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5509                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5494                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5514                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5499                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5528                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5500                 | 29               | 5               | 170     | Yes       |
| 16      | 5497                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5514                 | 24               | 2.1             | 218     | No        |
| 18      | 5513                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5524                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5527                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5510                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5503                 | 28               | 4               | 160     | Yes       |
| 23      | 5507                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5498                 | 23               | 1               | 205     | Yes       |
| 25      | 5522                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5511                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5512                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5510                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5520                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5500                 | 24               | 1.7             | 216     | Yes       |

Detection Rate : 86.7%

**802.11ax (HE40)**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5520                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5500                 | 18               | 9               | 316     | Yes       |
| 4       | 5510                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5526                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5497                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5499                 | 18               | 9.5             | 463     | No        |
| 8       | 5508                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5498                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5501                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5518                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5506                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5522                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5519                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5493                 | 18               | 10              | 395     | No        |
| 16      | 5525                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5503                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5503                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5515                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5515                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5526                 | 17               | 7.9             | 351     | No        |
| 22      | 5492                 | 18               | 9               | 411     | Yes       |
| 23      | 5498                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5503                 | 16               | 6               | 431     | Yes       |
| 25      | 5499                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5493                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5518                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5492                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5526                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5504                 | 16               | 6.7             | 270     | No        |

Detection Rate : 86.7%

**802.11ax (HE40)**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5520                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5500                 | 15               | 17.8            | 316     | No        |
| 4       | 5510                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5495                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5523                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5517                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5523                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5513                 | 14               | 15.1            | 212     | No        |
| 10      | 5502                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5522                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5501                 | 12               | 11.7            | 461     | No        |
| 13      | 5522                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5497                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5510                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5493                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5492                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5519                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5498                 | 13               | 12.9            | 423     | No        |
| 20      | 5518                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5502                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5508                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5498                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5520                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5528                 | 15               | 17              | 324     | Yes       |
| 26      | 5526                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5497                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5526                 | 12               | 11.7            | 481     | No        |
| 29      | 5509                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5513                 | 12               | 12.7            | 270     | Yes       |

Detection Rate : 83.3%

# 802.11ax (HE40)

## Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 17                       | 5510                        | LP_Signal_01     | Yes       |
| 2       | 7                        | 5510                        | LP_Signal_02     | Yes       |
| 3       | 8                        | 5510                        | LP_Signal_03     | Yes       |
| 4       | 19                       | 5510                        | LP_Signal_04     | Yes       |
| 5       | 12                       | 5510                        | LP_Signal_05     | Yes       |
| 6       | 11                       | 5510                        | LP_Signal_06     | No        |
| 7       | 6                        | 5510                        | LP_Signal_07     | Yes       |
| 8       | 20                       | 5510                        | LP_Signal_08     | Yes       |
| 9       | 6                        | 5510                        | LP_Signal_09     | Yes       |
| 10      | 12                       | 5510                        | LP_Signal_10     | Yes       |
| 11      | 16                       | 5493                        | LP_Signal_11     | Yes       |
| 12      | 20                       | 5493                        | LP_Signal_12     | Yes       |
| 13      | 18                       | 5495                        | LP_Signal_13     | Yes       |
| 14      | 12                       | 5498                        | LP_Signal_14     | Yes       |
| 15      | 12                       | 5499                        | LP_Signal_15     | Yes       |
| 16      | 15                       | 5496                        | LP_Signal_16     | Yes       |
| 17      | 10                       | 5495                        | LP_Signal_17     | Yes       |
| 18      | 12                       | 5495                        | LP_Signal_18     | Yes       |
| 19      | 10                       | 5494                        | LP_Signal_19     | Yes       |
| 20      | 20                       | 5493                        | LP_Signal_20     | No        |
| 21      | 7                        | 5524                        | LP_Signal_21     | Yes       |
| 22      | 20                       | 5522                        | LP_Signal_22     | Yes       |
| 23      | 8                        | 5525                        | LP_Signal_23     | Yes       |
| 24      | 17                       | 5527                        | LP_Signal_24     | No        |
| 25      | 7                        | 5523                        | LP_Signal_25     | Yes       |
| 26      | 14                       | 5525                        | LP_Signal_26     | No        |
| 27      | 11                       | 5526                        | LP_Signal_27     | Yes       |
| 28      | 7                        | 5527                        | LP_Signal_28     | Yes       |
| 29      | 12                       | 5527                        | LP_Signal_29     | Yes       |
| 30      | 8                        | 5526                        | LP_Signal_30     | Yes       |

Detection Rate : 86.7%

The Long Pulse Radar pattern shown in Appendix A.1

## 802.11ax (HE40)

### 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                 | No        |
| 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                 | Yes       |
| 6                      | 9                | 1               | 333.3   | HOP_FREQ_SEQ_06                 | Yes       |
| 7                      | 9                | 1               | 333.3   | HOP_FREQ_SEQ_07                 | No        |
| 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                 | Yes       |
| 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                 | Yes       |
| 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                 | Yes       |
| 30                     | 9                | 1               | 333.3   | HOP_FREQ_SEQ_30                 | Yes       |
| Detection Rate : 93.3% |                  |                 |         |                                 |           |

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

**802.11ax (HE80)**
**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 (ms) | Detection |
|---------|----------------------|---------------------------------------------|----------------------------------|------------------|--------------------------------|-----------|
| 1       | 5290                 | 15                                          | 1253                             | 67               | 798                            | Yes       |
| 2       | 5300                 | 16                                          | 1223                             | 65               | 818                            | Yes       |
| 3       | 5320                 | 4                                           | 1730                             | 92               | 578                            | Yes       |
| 4       | 5280                 | 11                                          | 1393                             | 74               | 718                            | Yes       |
| 5       | 5260                 | 22                                          | 1066                             | 57               | 938                            | Yes       |
| 6       | 5295                 | 7                                           | 1567                             | 83               | 638                            | Yes       |
| 7       | 5258                 | 2                                           | 1859                             | 99               | 538                            | Yes       |
| 8       | 5280                 | 8                                           | 1520                             | 81               | 658                            | Yes       |
| 9       | 5304                 | 1                                           | 1931                             | 102              | 518                            | Yes       |
| 10      | 5327                 | 19                                          | 1139                             | 61               | 878                            | Yes       |
| 11      | 5323                 | 21                                          | 1089                             | 58               | 918                            | Yes       |
| 12      | 5256                 | 23                                          | 326.2                            | 18               | 3066                           | Yes       |
| 13      | 5298                 | 9                                           | 1475                             | 78               | 678                            | Yes       |
| 14      | 5256                 | 5                                           | 1672                             | 89               | 598                            | Yes       |
| 15      | 5281                 | 6                                           | 1618                             | 86               | 618                            | No        |
| 16      | 5327                 | -                                           | 1111                             | 59               | 900                            | Yes       |
| 17      | 5302                 | -                                           | 1024                             | 55               | 977                            | Yes       |
| 18      | 5282                 | -                                           | 625.8                            | 34               | 1598                           | Yes       |
| 19      | 5277                 | -                                           | 730.5                            | 39               | 1369                           | Yes       |
| 20      | 5309                 | -                                           | 1181                             | 63               | 847                            | Yes       |
| 21      | 5326                 | -                                           | 400.6                            | 22               | 2496                           | Yes       |
| 22      | 5257                 | -                                           | 529.4                            | 28               | 1889                           | Yes       |
| 23      | 5290                 | -                                           | 347.6                            | 19               | 2877                           | Yes       |
| 24      | 5324                 | -                                           | 641.4                            | 34               | 1559                           | Yes       |
| 25      | 5283                 | -                                           | 508.9                            | 27               | 1965                           | Yes       |
| 26      | 5318                 | -                                           | 345.4                            | 19               | 2895                           | Yes       |
| 27      | 5294                 | -                                           | 580.7                            | 31               | 1722                           | Yes       |
| 28      | 5258                 | -                                           | 786.8                            | 42               | 1271                           | Yes       |
| 29      | 5305                 | -                                           | 808.4                            | 43               | 1237                           | Yes       |
| 30      | 5269                 | -                                           | 517.1                            | 28               | 1934                           | Yes       |

Detection Rate : 96.7%

Note. “ - “ : 15 unique PRI values randomly selected within the range of 518-3066  $\mu$ sec, with a minimum increment of 1 $\mu$ sec, excluding PRI values selected in Test A

**802.11ax (HE80)**
**Type 2 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                 | 24               | 1.7             | 174     | No        |
| 2       | 5540                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5560                 | 28               | 4               | 161     | Yes       |
| 4       | 5520                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5500                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5536                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5536                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5532                 | 26               | 2.9             | 227     | No        |
| 9       | 5506                 | 26               | 2.8             | 171     | No        |
| 10      | 5542                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5553                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5506                 | 23               | 1.3             | 189     | No        |
| 13      | 5552                 | 25               | 2.5             | 204     | No        |
| 14      | 5496                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5504                 | 29               | 5               | 170     | Yes       |
| 16      | 5521                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5540                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5498                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5497                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5541                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5555                 | 26               | 2.9             | 224     | No        |
| 22      | 5560                 | 28               | 4               | 160     | Yes       |
| 23      | 5557                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5507                 | 23               | 1               | 205     | Yes       |
| 25      | 5510                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5562                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5499                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5563                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5562                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5550                 | 24               | 1.7             | 216     | Yes       |

Detection Rate : 80%

**802.11ax (HE80)**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5540                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5560                 | 18               | 9               | 316     | Yes       |
| 4       | 5520                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5500                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5566                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5558                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5511                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5560                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5556                 | 17               | 8.6             | 236     | No        |
| 11      | 5561                 | 16               | 6.1             | 474     | No        |
| 12      | 5551                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5498                 | 17               | 7.5             | 437     | No        |
| 14      | 5514                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5539                 | 18               | 10              | 395     | No        |
| 16      | 5535                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5553                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5545                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5534                 | 16               | 6.8             | 423     | No        |
| 20      | 5549                 | 16               | 6.2             | 456     | No        |
| 21      | 5559                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5493                 | 18               | 9               | 411     | Yes       |
| 23      | 5547                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5532                 | 16               | 6               | 431     | Yes       |
| 25      | 5555                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5556                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5522                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5538                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5564                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5545                 | 16               | 6.7             | 270     | Yes       |

Detection Rate : 80%

**802.11ax (HE80)**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                 | 12               | 12.5            | 467     | No        |
| 2       | 5540                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5560                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5520                 | 16               | 18.5            | 439     | No        |
| 5       | 5500                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5527                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5530                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5536                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5562                 | 14               | 15.1            | 212     | No        |
| 10      | 5508                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5560                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5524                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5509                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5557                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5556                 | 16               | 19.9            | 395     | No        |
| 16      | 5551                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5503                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5543                 | 13               | 14.5            | 255     | No        |
| 19      | 5553                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5506                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5563                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5534                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5509                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5539                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5523                 | 15               | 17              | 324     | Yes       |
| 26      | 5506                 | 13               | 14.5            | 419     | No        |
| 27      | 5561                 | 12               | 12.1            | 447     | No        |
| 28      | 5502                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5494                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5523                 | 12               | 12.7            | 270     | No        |

Detection Rate : 73.3%

# 802.11ax (HE80)

## Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection            |
|---------|--------------------------|-----------------------------|------------------|----------------------|
| 1       | 17                       | 5530                        | LP_Signal_01     | No                   |
| 2       | 7                        | 5530                        | LP_Signal_02     | Yes                  |
| 3       | 8                        | 5530                        | LP_Signal_03     | Yes                  |
| 4       | 19                       | 5530                        | LP_Signal_04     | Yes                  |
| 5       | 12                       | 5530                        | LP_Signal_05     | Yes                  |
| 6       | 11                       | 5530                        | LP_Signal_06     | No                   |
| 7       | 6                        | 5530                        | LP_Signal_07     | Yes                  |
| 8       | 20                       | 5530                        | LP_Signal_08     | Yes                  |
| 9       | 6                        | 5530                        | LP_Signal_09     | Yes                  |
| 10      | 12                       | 5530                        | LP_Signal_10     | Yes                  |
| 11      | 16                       | 5494                        | LP_Signal_11     | Yes                  |
| 12      | 20                       | 5494                        | LP_Signal_12     | Yes                  |
| 13      | 18                       | 5496                        | LP_Signal_13     | Yes                  |
| 14      | 12                       | 5499                        | LP_Signal_14     | Yes                  |
| 15      | 12                       | 5500                        | LP_Signal_15     | Yes                  |
| 16      | 15                       | 5497                        | LP_Signal_16     | Yes                  |
| 17      | 10                       | 5496                        | LP_Signal_17     | Yes                  |
| 18      | 12                       | 5496                        | LP_Signal_18     | Yes                  |
| 19      | 10                       | 5495                        | LP_Signal_19     | Yes                  |
| 20      | 20                       | 5494                        | LP_Signal_20     | Yes                  |
| 21      | 7                        | 5563                        | LP_Signal_21     | Yes                  |
| 22      | 20                       | 5561                        | LP_Signal_22     | Yes                  |
| 23      | 8                        | 5564                        | LP_Signal_23     | Yes                  |
| 24      | 17                       | 5566                        | LP_Signal_24     | Yes                  |
| 25      | 7                        | 5562                        | LP_Signal_25     | No                   |
| 26      | 14                       | 5564                        | LP_Signal_26     | Yes                  |
| 27      | 11                       | 5565                        | LP_Signal_27     | Yes                  |
| 28      | 7                        | 5566                        | LP_Signal_28     | Yes                  |
| 29      | 12                       | 5566                        | LP_Signal_29     | Yes                  |
| 30      | 8                        | 5565                        | LP_Signal_30     | Yes                  |
|         |                          |                             |                  | Detection Rate : 90% |

The Long Pulse Radar pattern shown in Appendix A.1

## 802.11ax (HE80)

### 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                 | Yes       |
| 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                 | Yes       |
| 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                 | Yes       |
| 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                 | Yes       |
| 30                    | 9                | 1               | 333.3   | HOP_FREQ_SEQ_30                 | Yes       |
| Detection Rate : 100% |                  |                 |         |                                 |           |

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

**802.11ax (HE160)**
**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 (ms) | Detection |
|---------|----------------------|---------------------------------------------|----------------------------------|------------------|--------------------------------|-----------|
| 1       | 5570                 | 15                                          | 1253                             | 67               | 798                            | Yes       |
| 2       | 5580                 | 16                                          | 1223                             | 65               | 818                            | Yes       |
| 3       | 5600                 | 4                                           | 1730                             | 92               | 578                            | Yes       |
| 4       | 5560                 | 11                                          | 1393                             | 74               | 718                            | Yes       |
| 5       | 5540                 | 22                                          | 1066                             | 57               | 938                            | Yes       |
| 6       | 5566                 | 7                                           | 1567                             | 83               | 638                            | Yes       |
| 7       | 5644                 | 2                                           | 1859                             | 99               | 538                            | Yes       |
| 8       | 5644                 | 8                                           | 1520                             | 81               | 658                            | Yes       |
| 9       | 5646                 | 1                                           | 1931                             | 102              | 518                            | Yes       |
| 10      | 5597                 | 19                                          | 1139                             | 61               | 878                            | Yes       |
| 11      | 5497                 | 21                                          | 1089                             | 58               | 918                            | Yes       |
| 12      | 5509                 | 23                                          | 326.2                            | 18               | 3066                           | Yes       |
| 13      | 5559                 | 9                                           | 1475                             | 78               | 678                            | Yes       |
| 14      | 5498                 | 5                                           | 1672                             | 89               | 598                            | Yes       |
| 15      | 5533                 | 6                                           | 1618                             | 86               | 618                            | Yes       |
| 16      | 5644                 | -                                           | 1111                             | 59               | 900                            | Yes       |
| 17      | 5507                 | -                                           | 1024                             | 55               | 977                            | Yes       |
| 18      | 5630                 | -                                           | 625.8                            | 34               | 1598                           | Yes       |
| 19      | 5568                 | -                                           | 730.5                            | 39               | 1369                           | Yes       |
| 20      | 5556                 | -                                           | 1181                             | 63               | 847                            | Yes       |
| 21      | 5517                 | -                                           | 400.6                            | 22               | 2496                           | Yes       |
| 22      | 5579                 | -                                           | 529.4                            | 28               | 1889                           | Yes       |
| 23      | 5600                 | -                                           | 347.6                            | 19               | 2877                           | Yes       |
| 24      | 5648                 | -                                           | 641.4                            | 34               | 1559                           | Yes       |
| 25      | 5551                 | -                                           | 508.9                            | 27               | 1965                           | Yes       |
| 26      | 5537                 | -                                           | 345.4                            | 19               | 2895                           | Yes       |
| 27      | 5571                 | -                                           | 580.7                            | 31               | 1722                           | Yes       |
| 28      | 5510                 | -                                           | 786.8                            | 42               | 1271                           | Yes       |
| 29      | 5584                 | -                                           | 808.4                            | 43               | 1237                           | No        |
| 30      | 5568                 | -                                           | 517.1                            | 28               | 1934                           | Yes       |

Detection Rate : 96.7%

Note. “ - “ : 15 unique PRI values randomly selected within the range of 518-3066  $\mu$ sec, with a minimum increment of 1 $\mu$ sec, excluding PRI values selected in Test A

**802.11ax (HE160)**
**Type 2 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5570                 | 24               | 1.7             | 174     | No        |
| 2       | 5580                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5600                 | 28               | 4               | 161     | Yes       |
| 4       | 5560                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5540                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5593                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5617                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5531                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5551                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5628                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5576                 | 23               | 1.1             | 180     | No        |
| 12      | 5606                 | 23               | 1.3             | 189     | No        |
| 13      | 5643                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5575                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5514                 | 29               | 5               | 170     | Yes       |
| 16      | 5600                 | 26               | 3.1             | 201     | No        |
| 17      | 5545                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5520                 | 25               | 2.6             | 208     | No        |
| 19      | 5518                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5608                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5547                 | 26               | 2.9             | 224     | No        |
| 22      | 5551                 | 28               | 4               | 160     | Yes       |
| 23      | 5575                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5539                 | 23               | 1               | 205     | Yes       |
| 25      | 5542                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5591                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5648                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5586                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5624                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5616                 | 24               | 1.7             | 216     | Yes       |

Detection Rate : 80%

**802.11ax (HE160)**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5570                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5580                 | 18               | 8.8             | 304     | No        |
| 3       | 5600                 | 18               | 9               | 316     | No        |
| 4       | 5560                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5540                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5535                 | 16               | 6.1             | 249     | No        |
| 7       | 5551                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5541                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5506                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5513                 | 17               | 8.6             | 236     | No        |
| 11      | 5601                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5590                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5589                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5611                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5547                 | 18               | 10              | 395     | No        |
| 16      | 5569                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5638                 | 16               | 7.1             | 468     | No        |
| 18      | 5603                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5578                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5557                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5550                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5626                 | 18               | 9               | 411     | Yes       |
| 23      | 5542                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5590                 | 16               | 6               | 431     | Yes       |
| 25      | 5503                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5598                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5557                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5604                 | 16               | 6.3             | 481     | No        |
| 29      | 5543                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5625                 | 16               | 6.7             | 270     | Yes       |

Detection Rate : 76.7%

**802.11ax (HE160)**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5570                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5580                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5600                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5560                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5540                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5496                 | 12               | 11.3            | 249     | No        |
| 7       | 5634                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5638                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5587                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5641                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5515                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5617                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5540                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5643                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5510                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5554                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5546                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5524                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5504                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5620                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5577                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5505                 | 15               | 17.8            | 411     | No        |
| 23      | 5563                 | 13               | 14.3            | 279     | No        |
| 24      | 5540                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5534                 | 15               | 17              | 324     | Yes       |
| 26      | 5555                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5569                 | 12               | 12.1            | 447     | No        |
| 28      | 5544                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5626                 | 12               | 11.6            | 438     | No        |
| 30      | 5628                 | 12               | 12.7            | 270     | Yes       |

Detection Rate : 83.3%

# 802.11ax (HE160)

## Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection              |
|---------|--------------------------|-----------------------------|------------------|------------------------|
| 1       | 17                       | 5570                        | LP_Signal_01     | Yes                    |
| 2       | 7                        | 5570                        | LP_Signal_02     | Yes                    |
| 3       | 8                        | 5570                        | LP_Signal_03     | Yes                    |
| 4       | 19                       | 5570                        | LP_Signal_04     | Yes                    |
| 5       | 12                       | 5570                        | LP_Signal_05     | Yes                    |
| 6       | 11                       | 5570                        | LP_Signal_06     | No                     |
| 7       | 6                        | 5570                        | LP_Signal_07     | Yes                    |
| 8       | 20                       | 5570                        | LP_Signal_08     | Yes                    |
| 9       | 6                        | 5570                        | LP_Signal_09     | Yes                    |
| 10      | 12                       | 5570                        | LP_Signal_10     | Yes                    |
| 11      | 16                       | 5494                        | LP_Signal_11     | Yes                    |
| 12      | 20                       | 5494                        | LP_Signal_12     | Yes                    |
| 13      | 18                       | 5496                        | LP_Signal_13     | Yes                    |
| 14      | 12                       | 5499                        | LP_Signal_14     | Yes                    |
| 15      | 12                       | 5500                        | LP_Signal_15     | Yes                    |
| 16      | 15                       | 5497                        | LP_Signal_16     | Yes                    |
| 17      | 10                       | 5496                        | LP_Signal_17     | Yes                    |
| 18      | 12                       | 5496                        | LP_Signal_18     | Yes                    |
| 19      | 10                       | 5495                        | LP_Signal_19     | Yes                    |
| 20      | 20                       | 5494                        | LP_Signal_20     | No                     |
| 21      | 7                        | 5643                        | LP_Signal_21     | No                     |
| 22      | 20                       | 5641                        | LP_Signal_22     | Yes                    |
| 23      | 8                        | 5644                        | LP_Signal_23     | Yes                    |
| 24      | 17                       | 5646                        | LP_Signal_24     | Yes                    |
| 25      | 7                        | 5642                        | LP_Signal_25     | Yes                    |
| 26      | 14                       | 5644                        | LP_Signal_26     | Yes                    |
| 27      | 11                       | 5645                        | LP_Signal_27     | No                     |
| 28      | 7                        | 5646                        | LP_Signal_28     | Yes                    |
| 29      | 12                       | 5646                        | LP_Signal_29     | No                     |
| 30      | 8                        | 5645                        | LP_Signal_30     | Yes                    |
|         |                          |                             |                  | Detection Rate : 83.3% |

The Long Pulse Radar pattern shown in Appendix A.1

# 802.11ax (HE160)

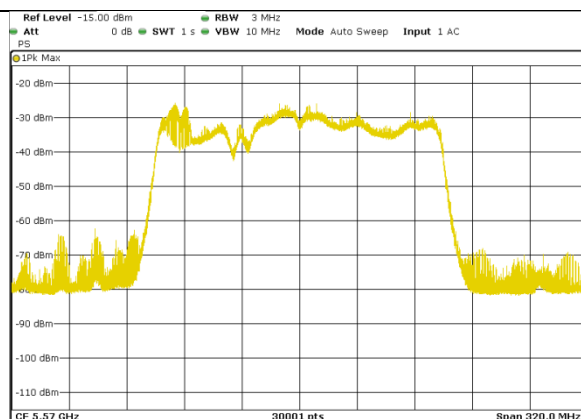
## Type 6 Radar Statistical Performances

| 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                 | Yes                    |
| 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                 | Yes                    |
| 14      | 9                | 1               | 333.3   | HOP_FREQ_SEQ_14                 | Yes                    |
| 15      | 9                | 1               | 333.3   | HOP_FREQ_SEQ_15                 | No                     |
| 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                 | Yes                    |
| 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                 | Yes                    |
| 30      | 9                | 1               | 333.3   | HOP_FREQ_SEQ_30                 | Yes                    |
|         |                  |                 |         |                                 | Detection Rate : 96.7% |

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

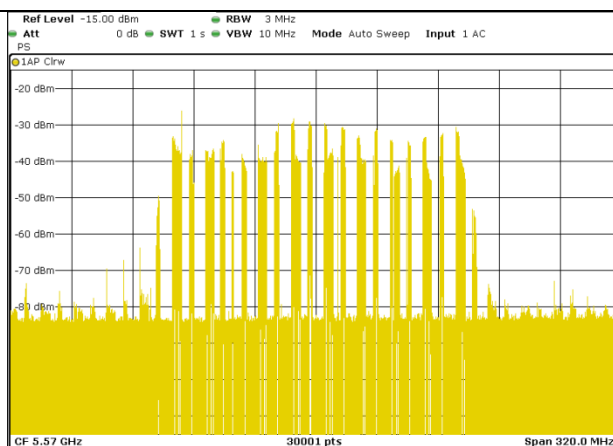
## 6.2.5 Non- Occupancy Period

1) Test results demonstrating an associated client link is established with the master on a test frequency.



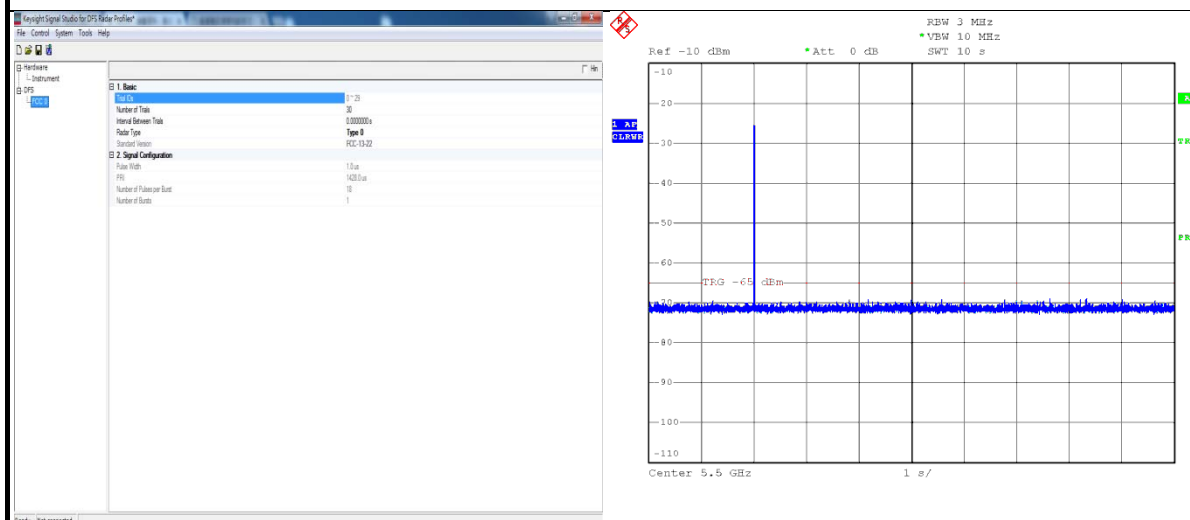
EUT (master) links with Client on 5570MHz

2) The master and DFS-certified client device are associated, and system testing will be performed with channel-loading for a non-occupancy period test.



Client performed with channel-loading via master.

3). The device transmits one type of radar as specified in the DFS Order.



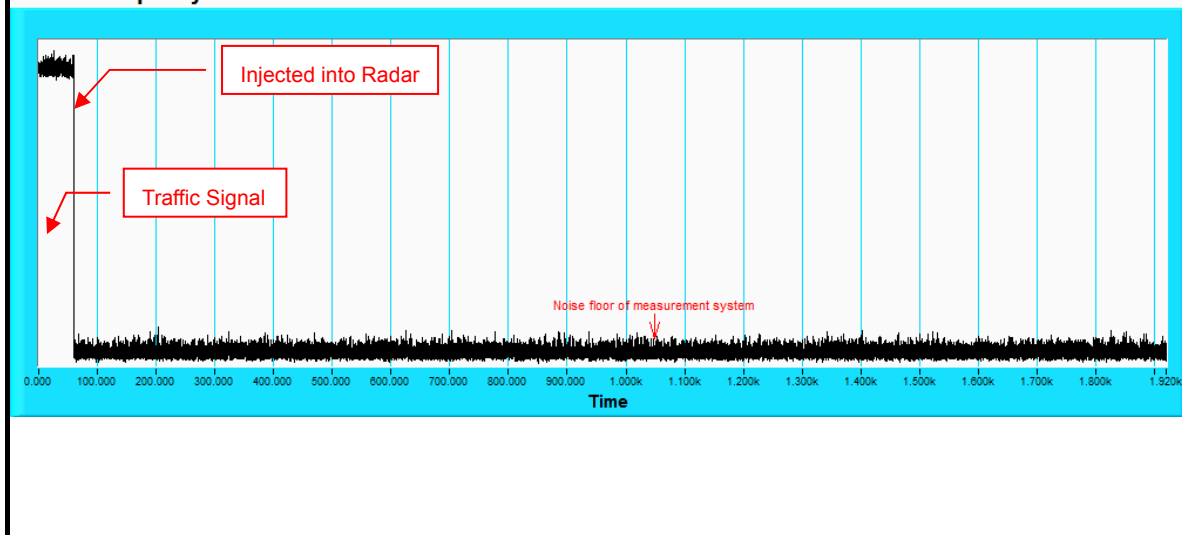
Radar 0 is used to test during DFS testing.

4) The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes;

Note: 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;

5) An analyzer plot that contains a single 30-minute sweep on the original test frequency.

**Non - Occupancy Period**



## 7. Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

## 8. Appendix-A

### RADAR TEST SIGNAL

#### A.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 89.4            | 1750       | 1823       | 1091       |
| 2     | 1                | 17          | 57.6            | 1831       | -          | -          |
| 3     | 1                | 17          | 62.1            | 1839       | -          | -          |
| 4     | 3                | 17          | 94.8            | 1258       | 1771       | 1217       |
| 5     | 2                | 17          | 74.7            | 1246       | 1854       | -          |
| 6     | 2                | 17          | 70.3            | 1286       | 1132       | -          |
| 7     | 1                | 17          | 55.3            | 1409       | -          | -          |
| 8     | 3                | 17          | 99.3            | 1879       | 1810       | 1391       |
| 9     | 1                | 17          | 53.5            | 1673       | -          | -          |
| 10    | 2                | 17          | 74.6            | 1448       | 1969       | -          |
| 11    | 3                | 17          | 85.5            | 1999       | 1087       | 1140       |
| 12    | 3                | 17          | 99.3            | 1602       | 1435       | 1376       |
| 13    | 3                | 17          | 91              | 1211       | 1374       | 1783       |
| 14    | 2                | 17          | 73.8            | 1924       | 1124       | -          |
| 15    | 2                | 17          | 74.1            | 1641       | 1247       | -          |
| 16    | 2                | 17          | 82.2            | 1904       | 1345       | -          |
| 17    | 2                | 17          | 68.6            | 1168       | 1844       | -          |
| 18    | 2                | 17          | 74.8            | 1444       | 1778       | -          |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 67.7            | 1691       | 1157       | -          |
| 2     | 3                | 7           | 99.8            | 1097       | 1766       | 1178       |
| 3     | 1                | 7           | 56.9            | 1188       | -          | -          |
| 4     | 3                | 7           | 99.1            | 1208       | 1655       | 1974       |
| 5     | 1                | 7           | 60.8            | 1480       | -          | -          |
| 6     | 3                | 7           | 88.3            | 1272       | 1863       | 1474       |
| 7     | 1                | 7           | 57.5            | 1911       | -          | -          |
| 8     | 2                | 7           | 80.3            | 1455       | 1881       | -          |
| 9     | 2                | 7           | 71.4            | 1137       | 1241       | 0          |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 8           | 58.9            | 1295       | -          | -          |
| 2     | 2                | 8           | 72.6            | 1375       | 1213       | -          |
| 3     | 1                | 8           | 60.7            | 1039       | -          | -          |
| 4     | 2                | 8           | 70.8            | 1230       | 1064       | -          |
| 5     | 1                | 8           | 51.9            | 1025       | -          | -          |
| 6     | 2                | 8           | 67.5            | 1895       | 1802       | -          |
| 7     | 2                | 8           | 80.8            | 1550       | 1533       | -          |
| 8     | 2                | 8           | 68.6            | 1525       | 1221       | -          |
| 9     | 3                | 8           | 92.4            | 1651       | 1985       | 1505       |
| 10    | 3                | 8           | 87              | 1671       | 1451       | 1643       |
| 11    | 2                | 8           | 70.9            | 1439       | 1724       | -          |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 19          | 81.2            | 1922       | 1020       | -          |
| 2     | 1                | 19          | 57.6            | 1677       | -          | -          |
| 3     | 3                | 19          | 84.9            | 1073       | 1244       | 1949       |
| 4     | 2                | 19          | 83.1            | 1935       | 1174       | -          |
| 5     | 2                | 19          | 71.1            | 1542       | 1560       | -          |
| 6     | 1                | 19          | 55.1            | 1790       | -          | -          |
| 7     | 1                | 19          | 54.4            | 1396       | -          | -          |
| 8     | 3                | 19          | 90.6            | 1035       | 1886       | 1980       |
| 9     | 3                | 19          | 92.2            | 1950       | 1759       | 1163       |
| 10    | 3                | 19          | 92.5            | 1108       | 1661       | 1358       |
| 11    | 2                | 19          | 79.5            | 1441       | 1957       | -          |
| 12    | 2                | 19          | 76.3            | 1259       | 1876       | -          |
| 13    | 1                | 19          | 65.7            | 1880       | -          | -          |
| 14    | 3                | 19          | 99.4            | 1971       | 1493       | 1004       |
| 15    | 3                | 19          | 89.5            | 1238       | 1700       | 1581       |
| 16    | 2                | 19          | 79.1            | 1906       | 1546       | -          |
| 17    | 1                | 19          | 60              | 1019       | -          | -          |
| 18    | 3                | 19          | 90.3            | 1808       | 1034       | 1199       |
| 19    | 3                | 19          | 96.8            | 1869       | 1993       | 1967       |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 73.8            | 1686       | 1255       | -          |
| 2     | 3                | 12          | 87.2            | 1201       | 1621       | 1693       |
| 3     | 3                | 12          | 94.4            | 1503       | 1529       | 1431       |
| 4     | 3                | 12          | 99              | 1308       | 1366       | 1481       |
| 5     | 3                | 12          | 96.5            | 1318       | 1418       | 1452       |
| 6     | 2                | 12          | 76.6            | 1695       | 1170       | -          |
| 7     | 3                | 12          | 92.8            | 1304       | 1113       | 1835       |
| 8     | 1                | 12          | 53.8            | 1068       | -          | -          |
| 9     | 3                | 12          | 83.6            | 1384       | 1593       | 1212       |
| 10    | 2                | 12          | 81.8            | 1395       | 1768       | -          |
| 11    | 1                | 12          | 60.2            | 1129       | -          | -          |
| 12    | 1                | 12          | 55.1            | 1045       | -          | -          |
| 13    | 2                | 12          | 81.8            | 1984       | 1703       | -          |
| 14    | 3                | 12          | 95.3            | 1992       | 1828       | 1932       |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 11          | 97.7            | 1350       | 1354       | 1424       |
| 2     | 3                | 11          | 93.6            | 1779       | 1273       | 1540       |
| 3     | 1                | 11          | 60              | 1065       | -          | -          |
| 4     | 1                | 11          | 64.8            | 1956       | -          | -          |
| 5     | 2                | 11          | 73.9            | 1390       | 1794       | -          |
| 6     | 2                | 11          | 77.9            | 1670       | 1206       | -          |
| 7     | 1                | 11          | 55.7            | 1942       | -          | -          |
| 8     | 3                | 11          | 83.9            | 1105       | 1853       | 1440       |
| 9     | 2                | 11          | 66.9            | 1819       | 1281       | -          |
| 10    | 3                | 11          | 88.2            | 1734       | 1361       | 1371       |
| 11    | 2                | 11          | 79              | 1400       | 1522       | -          |
| 12    | 2                | 11          | 79.4            | 1516       | 1031       | -          |
| 13    | 3                | 11          | 96.4            | 1328       | 1845       | 1833       |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 6           | 95.1            | 1436       | 1883       | 1146       |
| 2     | 2                | 6           | 71.5            | 1669       | 1952       | -          |
| 3     | 1                | 6           | 62.5            | 1309       | -          | -          |
| 4     | 3                | 6           | 88.5            | 1797       | 1846       | 1528       |
| 5     | 2                | 6           | 70.7            | 1976       | 1714       | -          |
| 6     | 2                | 6           | 78.3            | 1943       | 1873       | -          |
| 7     | 3                | 6           | 95.6            | 1763       | 1887       | 1977       |
| 8     | 1                | 6           | 63.1            | 1434       | -          | -          |
| 9     | 3                | 6           | 83.7            | 1069       | 1236       | 1277       |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 86.9            | 1257       | 1010       | 1287       |
| 2     | 1                | 20          | 58.7            | 1628       | -          | -          |
| 3     | 3                | 20          | 88.4            | 1800       | 1214       | 1234       |
| 4     | 1                | 20          | 56.4            | 1340       | -          | -          |
| 5     | 2                | 20          | 78.4            | 1792       | 1243       | -          |
| 6     | 1                | 20          | 51.3            | 1416       | -          | -          |
| 7     | 2                | 20          | 70.8            | 1645       | 1975       | -          |
| 8     | 1                | 20          | 58.8            | 1755       | -          | -          |
| 9     | 2                | 20          | 82              | 1476       | 1356       | -          |
| 10    | 3                | 20          | 87.3            | 1650       | 1941       | 1834       |
| 11    | 3                | 20          | 97.8            | 1898       | 1608       | 1523       |
| 12    | 2                | 20          | 81.1            | 1696       | 1870       | -          |
| 13    | 2                | 20          | 68.1            | 1652       | 1323       | -          |
| 14    | 1                | 20          | 55.7            | 1814       | -          | -          |
| 15    | 2                | 20          | 79.4            | 1078       | 1527       | -          |
| 16    | 1                | 20          | 64.2            | 1667       | -          | -          |
| 17    | 3                | 20          | 86.2            | 1052       | 1038       | 1690       |
| 18    | 1                | 20          | 62.3            | 1494       | -          | -          |
| 19    | 3                | 20          | 91.1            | 1885       | 1460       | 1013       |
| 20    | 3                | 20          | 89.9            | 1603       | 1592       | 1239       |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 6           | 70.2            | 1773       | 1471       | -          |
| 2     | 1                | 6           | 56.2            | 1180       | -          | -          |
| 3     | 2                | 6           | 69.9            | 1042       | 1393       | -          |
| 4     | 2                | 6           | 67              | 1569       | 1594       | -          |
| 5     | 2                | 6           | 80.3            | 1292       | 1588       | -          |
| 6     | 3                | 6           | 97.8            | 1338       | 1678       | 1114       |
| 7     | 2                | 6           | 82.3            | 1803       | 1185       | -          |
| 8     | 2                | 6           | 71.1            | 1564       | 1164       | -          |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 12          | 93.3            | 1781       | 1456       | 1265       |
| 2     | 3                | 12          | 89.5            | 1276       | 1002       | 1998       |
| 3     | 2                | 12          | 76.9            | 1607       | 1538       | -          |
| 4     | 3                | 12          | 86.2            | 1261       | 1890       | 1231       |
| 5     | 2                | 12          | 82.1            | 1559       | 1369       | -          |
| 6     | 1                | 12          | 63.9            | 1752       | -          | -          |
| 7     | 1                | 12          | 56.7            | 1225       | -          | -          |
| 8     | 1                | 12          | 51.3            | 1183       | -          | -          |
| 9     | 2                | 12          | 76.5            | 1498       | 1486       | -          |
| 10    | 2                | 12          | 67.4            | 1235       | 1381       | -          |
| 11    | 3                | 12          | 99.6            | 1582       | 1629       | 1177       |
| 12    | 1                | 12          | 54.4            | 1983       | -          | -          |
| 13    | 1                | 12          | 63.1            | 1953       | -          | -          |
| 14    | 1                | 12          | 58.1            | 1075       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 16          | 56.2            | 1389       | -          | -          |
| 2     | 3                | 16          | 91.7            | 1227       | 1497       | 1722       |
| 3     | 2                | 16          | 81.7            | 1437       | 1561       | -          |
| 4     | 1                | 16          | 65.2            | 1001       | -          | -          |
| 5     | 2                | 16          | 76.9            | 1649       | 1267       | -          |
| 6     | 1                | 16          | 65.7            | 1962       | -          | -          |
| 7     | 2                | 16          | 83.1            | 1242       | 1536       | -          |
| 8     | 2                | 16          | 74.3            | 1972       | 1030       | -          |
| 9     | 3                | 16          | 84.6            | 1148       | 1675       | 1683       |
| 10    | 1                | 16          | 66              | 1398       | -          | -          |
| 11    | 1                | 16          | 54.4            | 1368       | -          | -          |
| 12    | 2                | 16          | 73.2            | 1692       | 1156       | -          |
| 13    | 1                | 16          | 63.5            | 1508       | -          | -          |
| 14    | 2                | 16          | 80.7            | 1506       | 1426       | -          |
| 15    | 3                | 16          | 88.8            | 1939       | 1738       | 1841       |
| 16    | 2                | 16          | 71.3            | 1430       | 1705       | -          |
| 17    | 2                | 16          | 76.2            | 1182       | 1708       | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 80.6            | 1716       | 1419       | -          |
| 2     | 2                | 20          | 69              | 1197       | 1349       | -          |
| 3     | 3                | 20          | 99.8            | 1300       | 1756       | 1712       |
| 4     | 1                | 20          | 65.5            | 1028       | -          | -          |
| 5     | 3                | 20          | 92.5            | 1857       | 1534       | 1544       |
| 6     | 1                | 20          | 60.4            | 1640       | -          | -          |
| 7     | 1                | 20          | 61.5            | 1761       | -          | -          |
| 8     | 3                | 20          | 99              | 1457       | 1908       | 1599       |
| 9     | 1                | 20          | 54.1            | 1487       | -          | -          |
| 10    | 3                | 20          | 99.1            | 1720       | 1314       | 1945       |
| 11    | 2                | 20          | 78              | 1155       | 1829       | -          |
| 12    | 3                | 20          | 87.8            | 1812       | 1617       | 1159       |
| 13    | 2                | 20          | 68.8            | 1458       | 1438       | -          |
| 14    | 1                | 20          | 62.7            | 1672       | -          | -          |
| 15    | 3                | 20          | 86.7            | 1618       | 1422       | 1224       |
| 16    | 2                | 20          | 76.8            | 1056       | 1934       | -          |
| 17    | 1                | 20          | 62              | 1006       | -          | -          |
| 18    | 1                | 20          | 50              | 1884       | -          | -          |
| 19    | 2                | 20          | 78.2            | 1330       | 1630       | -          |
| 20    | 3                | 20          | 85.3            | 1464       | 1955       | 1960       |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 18          | 65              | 1066       | -          | -          |
| 2     | 2                | 18          | 70.8            | 1929       | 1636       | -          |
| 3     | 1                | 18          | 66.5            | 1094       | -          | -          |
| 4     | 3                | 18          | 88              | 1855       | 1252       | 1111       |
| 5     | 2                | 18          | 69              | 1290       | 1859       | -          |
| 6     | 1                | 18          | 54.9            | 1551       | -          | -          |
| 7     | 1                | 18          | 60.8            | 2000       | -          | -          |
| 8     | 2                | 18          | 81.8            | 1585       | 1864       | -          |
| 9     | 1                | 18          | 58.8            | 1130       | -          | -          |
| 10    | 1                | 18          | 50.4            | 1169       | -          | -          |
| 11    | 2                | 18          | 76              | 1325       | 1445       | -          |
| 12    | 1                | 18          | 62.6            | 1530       | -          | -          |
| 13    | 1                | 18          | 55.1            | 1851       | -          | -          |
| 14    | 3                | 18          | 91.2            | 1181       | 1302       | 1966       |
| 15    | 2                | 18          | 68.9            | 1348       | 1355       | -          |
| 16    | 3                | 18          | 85.4            | 1537       | 1758       | 1109       |
| 17    | 1                | 18          | 63.4            | 1011       | -          | -          |
| 18    | 3                | 18          | 92.7            | 1122       | 1333       | 1584       |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 63.7            | 1830       | -          | -          |
| 2     | 2                | 12          | 81.3            | 1110       | 1746       | -          |
| 3     | 2                | 12          | 70.2            | 1334       | 1187       | -          |
| 4     | 1                | 12          | 66.3            | 1587       | -          | -          |
| 5     | 2                | 12          | 72.8            | 1578       | 1745       | -          |
| 6     | 2                | 12          | 66.7            | 1694       | 1931       | -          |
| 7     | 1                | 12          | 55.1            | 1284       | -          | -          |
| 8     | 3                | 12          | 86.5            | 1089       | 1490       | 1762       |
| 9     | 1                | 12          | 65.7            | 1084       | -          | -          |
| 10    | 1                | 12          | 53.2            | 1268       | -          | -          |
| 11    | 2                | 12          | 67.8            | 1625       | 1411       | -          |
| 12    | 3                | 12          | 96.5            | 1576       | 1799       | 1233       |
| 13    | 1                | 12          | 51.4            | 1373       | -          | -          |
| 14    | 2                | 12          | 80.7            | 1098       | 1849       | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 60.5            | 1668       | -          | -          |
| 2     | 3                | 12          | 86              | 1786       | 1666       | 1266       |
| 3     | 1                | 12          | 61.2            | 1228       | -          | -          |
| 4     | 1                | 12          | 59.8            | 1204       | -          | -          |
| 5     | 1                | 12          | 52.5            | 1021       | -          | -          |
| 6     | 1                | 12          | 61.7            | 1634       | -          | -          |
| 7     | 3                | 12          | 96.5            | 1741       | 1875       | 1296       |
| 8     | 3                | 12          | 87.6            | 1093       | 1250       | 1172       |
| 9     | 3                | 12          | 99.6            | 1215       | 1813       | 1820       |
| 10    | 2                | 12          | 79.7            | 1327       | 1512       | -          |
| 11    | 3                | 12          | 90.2            | 1589       | 1145       | 1082       |
| 12    | 1                | 12          | 53.7            | 1136       | -          | -          |
| 13    | 2                | 12          | 73              | 1706       | 1526       | -          |
| 14    | 1                | 12          | 65.4            | 1420       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 15          | 82.6            | 1347       | 1485       | -          |
| 2     | 2                | 15          | 77.6            | 1312       | 1500       | -          |
| 3     | 3                | 15          | 93.8            | 1062       | 1005       | 1749       |
| 4     | 1                | 15          | 51.3            | 1809       | -          | -          |
| 5     | 1                | 15          | 63.4            | 1699       | -          | -          |
| 6     | 2                | 15          | 69.4            | 1606       | 1219       | -          |
| 7     | 3                | 15          | 86.3            | 1102       | 1878       | 1728       |
| 8     | 3                | 15          | 97              | 1192       | 1858       | 1772       |
| 9     | 1                | 15          | 65.1            | 1363       | -          | -          |
| 10    | 3                | 15          | 98.8            | 1083       | 1567       | 1961       |
| 11    | 3                | 15          | 98.1            | 1473       | 1271       | 1263       |
| 12    | 3                | 15          | 99.9            | 1780       | 1871       | 1249       |
| 13    | 2                | 15          | 82.9            | 1785       | 1081       | -          |
| 14    | 2                | 15          | 82.5            | 1501       | 1921       | -          |
| 15    | 3                | 15          | 89.2            | 1767       | 1357       | 1479       |
| 16    | 1                | 15          | 57.5            | 1891       | -          | -          |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 63.9            | 1331       | -          | -          |
| 2     | 1                | 10          | 62.4            | 1897       | -          | -          |
| 3     | 3                | 10          | 99.1            | 1769       | 1832       | 1647       |
| 4     | 3                | 10          | 95.4            | 1991       | 1085       | 1937       |
| 5     | 1                | 10          | 52              | 1029       | -          | -          |
| 6     | 2                | 10          | 69.1            | 1637       | 1611       | -          |
| 7     | 2                | 10          | 80              | 1447       | 1685       | -          |
| 8     | 1                | 10          | 59.1            | 1635       | -          | -          |
| 9     | 2                | 10          | 82.8            | 1134       | 1080       | -          |
| 10    | 1                | 10          | 51.6            | 1138       | -          | -          |
| 11    | 3                | 10          | 96.2            | 1165       | 1754       | 1269       |
| 12    | 2                | 10          | 76.1            | 1406       | 1818       | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 81.7            | 1946       | 1868       | -          |
| 2     | 3                | 12          | 90.5            | 1414       | 1453       | 1305       |
| 3     | 2                | 12          | 76.2            | 2000       | 1852       | -          |
| 4     | 2                | 12          | 69.1            | 1351       | 1071       | -          |
| 5     | 3                | 12          | 93.7            | 1865       | 1196       | 1782       |
| 6     | 3                | 12          | 89.7            | 1429       | 1948       | 1402       |
| 7     | 1                | 12          | 53.9            | 1070       | -          | -          |
| 8     | 3                | 12          | 88.2            | 1632       | 1940       | 1689       |
| 9     | 1                | 12          | 59.4            | 1733       | -          | -          |
| 10    | 1                | 12          | 66.4            | 1285       | -          | -          |
| 11    | 2                | 12          | 83              | 1321       | 1591       | -          |
| 12    | 2                | 12          | 82              | 1912       | 1012       | -          |
| 13    | 3                | 12          | 94.4            | 1698       | 1784       | 1303       |
| 14    | 1                | 12          | 63.6            | 1175       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 10          | 70.9            | 1736       | 1367       | -          |
| 2     | 1                | 10          | 62.4            | 1193       | -          | -          |
| 3     | 1                | 10          | 61.8            | 1596       | -          | -          |
| 4     | 1                | 10          | 52.6            | 1646       | -          | -          |
| 5     | 2                | 10          | 78.9            | 1049       | 1639       | -          |
| 6     | 1                | 10          | 63.9            | 1679       | -          | -          |
| 7     | 3                | 10          | 98.5            | 1627       | 1731       | 1442       |
| 8     | 3                | 10          | 92              | 1294       | 1547       | 1119       |
| 9     | 1                | 10          | 65.8            | 1386       | -          | -          |
| 10    | 2                | 10          | 77.7            | 1987       | 1964       | -          |
| 11    | 1                | 10          | 54.6            | 1553       | -          | -          |
| 12    | 2                | 10          | 77.7            | 1171       | 1413       | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 20          | 63.4            | 1899       | -          | -          |
| 2     | 1                | 20          | 63.5            | 1633       | -          | -          |
| 3     | 3                | 20          | 97.6            | 1815       | 1198       | 1488       |
| 4     | 3                | 20          | 84.7            | 1626       | 1026       | 1326       |
| 5     | 2                | 20          | 68.5            | 1469       | 1684       | -          |
| 6     | 1                | 20          | 61.8            | 1408       | -          | -          |
| 7     | 2                | 20          | 73.2            | 1735       | 1125       | -          |
| 8     | 1                | 20          | 60.2            | 1468       | -          | -          |
| 9     | 1                | 20          | 65.2            | 1519       | -          | -          |
| 10    | 2                | 20          | 74.6            | 1954       | 1654       | -          |
| 11    | 2                | 20          | 72.6            | 1394       | 1096       | -          |
| 12    | 2                | 20          | 78.9            | 1343       | 1843       | -          |
| 13    | 1                | 20          | 56.2            | 1003       | -          | -          |
| 14    | 3                | 20          | 93.2            | 1433       | 1299       | 1324       |
| 15    | 2                | 20          | 78.6            | 1404       | 1539       | -          |
| 16    | 1                | 20          | 50.9            | 1570       | -          | -          |
| 17    | 3                | 20          | 98.2            | 1346       | 1179       | 1510       |
| 18    | 3                | 20          | 97.5            | 1616       | 1360       | 1710       |
| 19    | 2                | 20          | 79.5            | 1822       | 1721       | -          |
| 20    | 2                | 20          | 67              | 1554       | 1237       | -          |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 7           | 51              | 1893       | -          | -          |
| 2     | 3                | 7           | 88.5            | 1270       | 1664       | 1623       |
| 3     | 3                | 7           | 98.2            | 1979       | 1826       | 1128       |
| 4     | 2                | 7           | 67.5            | 1417       | 1586       | -          |
| 5     | 3                | 7           | 97.4            | 1642       | 1121       | 1770       |
| 6     | 2                | 7           | 80.2            | 1816       | 1060       | -          |
| 7     | 2                | 7           | 72.8            | 1619       | 1203       | -          |
| 8     | 2                | 7           | 82.2            | 1499       | 1848       | -          |
| 9     | 2                | 7           | 77.6            | 1562       | 1573       | -          |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 89.8            | 1742       | 1968       | 1036       |
| 2     | 2                | 20          | 74.7            | 1850       | 1306       | -          |
| 3     | 3                | 20          | 98.5            | 1123       | 1336       | 1791       |
| 4     | 1                | 20          | 64.4            | 1740       | -          | -          |
| 5     | 1                | 20          | 66              | 1000       | -          | -          |
| 6     | 2                | 20          | 76.3            | 1521       | 1928       | -          |
| 7     | 3                | 20          | 90.4            | 1764       | 1383       | 1726       |
| 8     | 3                | 20          | 90.6            | 1896       | 1653       | 1697       |
| 9     | 2                | 20          | 74.8            | 1995       | 1938       | -          |
| 10    | 3                | 20          | 98              | 1251       | 1520       | 1725       |
| 11    | 2                | 20          | 71.2            | 1775       | 1240       | -          |
| 12    | 1                | 20          | 58.8            | 1195       | -          | -          |
| 13    | 3                | 20          | 84.1            | 1475       | 1472       | 1590       |
| 14    | 3                | 20          | 98.4            | 1274       | 1282       | 1918       |
| 15    | 3                | 20          | 96.4            | 1131       | 1739       | 1009       |
| 16    | 3                | 20          | 89.9            | 1484       | 1283       | 1412       |
| 17    | 2                | 20          | 82.9            | 1729       | 1571       | -          |
| 18    | 3                | 20          | 96.5            | 1978       | 1478       | 1555       |
| 19    | 3                | 20          | 85.7            | 1872       | 1737       | 1847       |
| 20    | 3                | 20          | 85.4            | 1387       | 1151       | 1531       |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 8           | 97.6            | 1568       | 1676       | 1023       |
| 2     | 3                | 8           | 93.9            | 1407       | 1682       | 1209       |
| 3     | 2                | 8           | 68.3            | 1807       | 1365       | -          |
| 4     | 3                | 8           | 98.3            | 1107       | 1882       | 1524       |
| 5     | 3                | 8           | 87.6            | 1557       | 1342       | 1910       |
| 6     | 2                | 8           | 76.6            | 1033       | 1048       | -          |
| 7     | 2                | 8           | 74.9            | 1101       | 1443       | -          |
| 8     | 1                | 8           | 65.3            | 1341       | -          | -          |
| 9     | 2                | 8           | 80              | 1220       | 1015       | -          |
| 10    | 3                | 8           | 87.4            | 1765       | 1316       | 1377       |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 88.4            | 1279       | 1317       | 1150       |
| 2     | 3                | 17          | 89.1            | 1288       | 1660       | 1789       |
| 3     | 3                | 17          | 91              | 1385       | 1988       | 1461       |
| 4     | 2                | 17          | 82.6            | 1915       | 1059       | -          |
| 5     | 2                | 17          | 75.5            | 1662       | 1982       | -          |
| 6     | 3                | 17          | 99.9            | 1222       | 1796       | 1717       |
| 7     | 2                | 17          | 74.1            | 1877       | 1917       | -          |
| 8     | 1                | 17          | 64.5            | 1380       | -          | -          |
| 9     | 3                | 17          | 90.3            | 1032       | 1613       | 1191       |
| 10    | 2                | 17          | 66.9            | 1158       | 1930       | -          |
| 11    | 3                | 17          | 88.2            | 1753       | 1399       | 1507       |
| 12    | 1                | 17          | 60.4            | 1307       | -          | -          |
| 13    | 2                | 17          | 73.3            | 1152       | 1543       | -          |
| 14    | 3                | 17          | 99.6            | 1207       | 1491       | 1297       |
| 15    | 1                | 17          | 58.2            | 1024       | -          | -          |
| 16    | 1                | 17          | 58.2            | 1925       | -          | -          |
| 17    | 2                | 17          | 66.9            | 1994       | 1090       | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 7           | 90.1            | 1465       | 1459       | 1862       |
| 2     | 1                | 7           | 51.8            | 1730       | -          | -          |
| 3     | 2                | 7           | 77.7            | 1874       | 1388       | -          |
| 4     | 1                | 7           | 64.4            | 1401       | -          | -          |
| 5     | 3                | 7           | 83.7            | 1517       | 1861       | 1612       |
| 6     | 3                | 7           | 87.1            | 1981       | 1161       | 1541       |
| 7     | 3                | 7           | 96.9            | 1143       | 1757       | 1115       |
| 8     | 2                | 7           | 80.1            | 1232       | 1574       | -          |
| 9     | 3                | 7           | 95.9            | 1051       | 1202       | 1344       |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 14          | 56.4            | 1379       | -          | -          |
| 2     | 1                | 14          | 50.2            | 1827       | -          | -          |
| 3     | 2                | 14          | 76.8            | 1189       | 1788       | -          |
| 4     | 3                | 14          | 89.4            | 1713       | 1774       | 1743       |
| 5     | 1                | 14          | 51.3            | 1926       | -          | -          |
| 6     | 2                | 14          | 75              | 1958       | 1194       | -          |
| 7     | 1                | 14          | 60.5            | 1631       | -          | -          |
| 8     | 3                | 14          | 87.5            | 1483       | 1825       | 1329       |
| 9     | 1                | 14          | 59.6            | 1495       | -          | -          |
| 10    | 2                | 14          | 82.2            | 1604       | 1421       | -          |
| 11    | 2                | 14          | 67.8            | 1139       | 1482       | -          |
| 12    | 1                | 14          | 51.5            | 1018       | -          | -          |
| 13    | 2                | 14          | 72.9            | 1135       | 1332       | -          |
| 14    | 3                | 14          | 96.5            | 1116       | 1291       | 1665       |
| 15    | 1                | 14          | 65.7            | 1256       | -          | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 11          | 68.4            | 1210       | 1254       | -          |
| 2     | 1                | 11          | 56.2            | 1106       | -          | -          |
| 3     | 2                | 11          | 68.7            | 1989       | 1167       | -          |
| 4     | 3                | 11          | 97.2            | 1963       | 1037       | 1860       |
| 5     | 3                | 11          | 87.1            | 1120       | 1335       | 1563       |
| 6     | 2                | 11          | 70.6            | 1298       | 1502       | -          |
| 7     | 2                | 11          | 68.7            | 1747       | 1446       | -          |
| 8     | 3                | 11          | 90              | 1315       | 1072       | 1226       |
| 9     | 2                | 11          | 79.4            | 1577       | 1311       | -          |
| 10    | 1                | 11          | 59.6            | 1176       | -          | -          |
| 11    | 3                | 11          | 84.9            | 1027       | 1727       | 1260       |
| 12    | 1                | 11          | 63.5            | 1605       | -          | -          |
| 13    | 1                | 11          | 52.3            | 1702       | -          | -          |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 72.9            | 1622       | 1104       | -          |
| 2     | 1                | 7           | 54.6            | 1609       | -          | -          |
| 3     | 1                | 7           | 51.9            | 1707       | -          | -          |
| 4     | 3                | 7           | 94.2            | 1173       | 1515       | 1688       |
| 5     | 1                | 7           | 52.5            | 1077       | -          | -          |
| 6     | 2                | 7           | 79.6            | 1054       | 1245       | -          |
| 7     | 3                | 7           | 93.5            | 1575       | 1141       | 1046       |
| 8     | 2                | 7           | 73.9            | 1718       | 1638       | -          |
| 9     | 3                | 7           | 87.7            | 1126       | 1462       | 1310       |
| 10    | 1                | 7           | 50.8            | 1154       | -          | -          |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 65.6            | 1074       | -          | -          |
| 2     | 1                | 12          | 63.2            | 1477       | -          | -          |
| 3     | 3                | 12          | 99.9            | 1053       | 1805       | 1657       |
| 4     | 3                | 12          | 85.8            | 1293       | 1680       | 1184       |
| 5     | 3                | 12          | 90              | 1200       | 1511       | 1127       |
| 6     | 2                | 12          | 76.1            | 1017       | 1133       | -          |
| 7     | 3                | 12          | 90.4            | 1043       | 1088       | 1362       |
| 8     | 1                | 12          | 65.4            | 1610       | -          | -          |
| 9     | 2                | 12          | 67.1            | 1824       | 1410       | -          |
| 10    | 1                | 12          | 55.3            | 1278       | -          | -          |
| 11    | 1                | 12          | 61.9            | 1403       | -          | -          |
| 12    | 3                | 12          | 96.1            | 1923       | 1216       | 1744       |
| 13    | 2                | 12          | 77.5            | 1558       | 1253       | -          |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 8           | 68.4            | 1190       | 1907       | -          |
| 2     | 3                | 8           | 99.7            | 1996       | 1806       | 1079       |
| 3     | 3                | 8           | 93              | 1777       | 1092       | 1337       |
| 4     | 2                | 8           | 75.3            | 1548       | 1583       | -          |
| 5     | 3                | 8           | 87.7            | 1715       | 1889       | 1470       |
| 6     | 1                | 8           | 60.2            | 1008       | -          | -          |
| 7     | 3                | 8           | 97.5            | 1658       | 1514       | 1748       |
| 8     | 2                | 8           | 79.7            | 1532       | 1793       | -          |
| 9     | 1                | 8           | 66.4            | 1014       | -          | -          |
| 10    | 1                | 8           | 61.4            | 1322       | -          | -          |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

## A.2 The Frequency Hopping Radar pattern

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |      |      |      |      |      |
|--------------------------------------------------|------|------|------|------|------|
| Frequency (MHz)                                  | 0    | 1    | 2    | 3    | 4    |
| 0                                                | 5436 | 5618 | 5502 | 5507 | 5674 |
| 5                                                | 5429 | 5363 | 5362 | 5339 | 5615 |
| 10                                               | 5432 | 5291 | 5566 | 5689 | 5400 |
| 15                                               | 5658 | 5277 | 5656 | 5265 | 5588 |
| 20                                               | 5643 | 5342 | 5449 | 5558 | 5600 |
| 25                                               | 5557 | 5293 | 5478 | 5488 | 5560 |
| 30                                               | 5331 | 5350 | 5559 | 5604 | 5505 |
| 35                                               | 5251 | 5413 | 5292 | 5424 | 5703 |
| 40                                               | 5596 | 5433 | 5266 | 5273 | 5548 |
| 45                                               | 5437 | 5253 | 5447 | 5628 | 5286 |
| 50                                               | 5340 | 5690 | 5302 | 5441 | 5439 |
| 55                                               | 5421 | 5694 | 5417 | 5609 | 5576 |
| 60                                               | 5305 | 5351 | 5288 | 5354 | 5335 |
| 65                                               | 5620 | 5657 | 5686 | 5711 | 5663 |
| 70                                               | 5610 | 5297 | 5634 | 5510 | 5426 |
| 75                                               | 5357 | 5667 | 5370 | 5387 | 5281 |
| 80                                               | 5585 | 5524 | 5338 | 5385 | 5673 |
| 85                                               | 5464 | 5693 | 5455 | 5633 | 5712 |
| 90                                               | 5679 | 5269 | 5607 | 5651 | 5352 |
| 95                                               | 5358 | 5612 | 5289 | 5397 | 5402 |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 |      |      |      |      |      |
|--------------------------------------------------|------|------|------|------|------|
| Frequency (MHz)                                  | 0    | 1    | 2    | 3    | 4    |
| 0                                                | 5691 | 5382 | 5438 | 5668 | 5419 |
| 5                                                | 5471 | 5385 | 5437 | 5502 | 5347 |
| 10                                               | 5363 | 5555 | 5607 | 5409 | 5421 |
| 15                                               | 5649 | 5404 | 5284 | 5310 | 5305 |
| 20                                               | 5554 | 5508 | 5370 | 5441 | 5531 |
| 25                                               | 5488 | 5496 | 5582 | 5522 | 5602 |
| 30                                               | 5317 | 5307 | 5299 | 5281 | 5325 |
| 35                                               | 5390 | 5504 | 5563 | 5577 | 5714 |
| 40                                               | 5435 | 5613 | 5679 | 5513 | 5642 |
| 45                                               | 5587 | 5417 | 5336 | 5505 | 5681 |
| 50                                               | 5648 | 5594 | 5391 | 5256 | 5530 |
| 55                                               | 5262 | 5722 | 5387 | 5278 | 5614 |
| 60                                               | 5580 | 5705 | 5470 | 5296 | 5595 |
| 65                                               | 5655 | 5378 | 5443 | 5606 | 5625 |
| 70                                               | 5446 | 5413 | 5466 | 5717 | 5275 |
| 75                                               | 5711 | 5626 | 5339 | 5410 | 5424 |
| 80                                               | 5566 | 5301 | 5448 | 5641 | 5293 |
| 85                                               | 5573 | 5393 | 5367 | 5535 | 5515 |
| 90                                               | 5350 | 5633 | 5459 | 5467 | 5297 |
| 95                                               | 5279 | 5386 | 5715 | 5624 | 5403 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_03

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5471 | 5621 | 5374 | 5354 | 5261 |
| 5               | 5513 | 5310 | 5512 | 5568 | 5651 |
| 10              | 5672 | 5344 | 5648 | 5507 | 5442 |
| 15              | 5262 | 5434 | 5290 | 5355 | 5497 |
| 20              | 5562 | 5577 | 5408 | 5530 | 5504 |
| 25              | 5279 | 5699 | 5308 | 5556 | 5266 |
| 30              | 5681 | 5264 | 5514 | 5523 | 5432 |
| 35              | 5595 | 5359 | 5255 | 5628 | 5274 |
| 40              | 5696 | 5520 | 5278 | 5639 | 5516 |
| 45              | 5397 | 5419 | 5563 | 5259 | 5438 |
| 50              | 5470 | 5567 | 5307 | 5619 | 5463 |
| 55              | 5666 | 5575 | 5707 | 5502 | 5433 |
| 60              | 5551 | 5635 | 5338 | 5427 | 5481 |
| 65              | 5324 | 5644 | 5555 | 5661 | 5350 |
| 70              | 5691 | 5538 | 5703 | 5613 | 5687 |
| 75              | 5585 | 5686 | 5547 | 5553 | 5461 |
| 80              | 5422 | 5457 | 5636 | 5588 | 5367 |
| 85              | 5377 | 5478 | 5445 | 5545 | 5684 |
| 90              | 5610 | 5287 | 5462 | 5285 | 5323 |
| 95              | 5597 | 5258 | 5420 | 5467 | 5698 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_04

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5251 | 5385 | 5310 | 5515 | 5481 |
| 5               | 5555 | 5332 | 5587 | 5256 | 5383 |
| 10              | 5603 | 5705 | 5311 | 5702 | 5463 |
| 15              | 5350 | 5561 | 5393 | 5400 | 5689 |
| 20              | 5570 | 5268 | 5349 | 5522 | 5477 |
| 25              | 5642 | 5685 | 5427 | 5412 | 5590 |
| 30              | 5308 | 5696 | 5632 | 5682 | 5343 |
| 35              | 5571 | 5686 | 5252 | 5505 | 5542 |
| 40              | 5304 | 5458 | 5421 | 5636 | 5348 |
| 45              | 5280 | 5502 | 5524 | 5312 | 5325 |
| 50              | 5346 | 5358 | 5708 | 5286 | 5513 |
| 55              | 5288 | 5661 | 5692 | 5488 | 5283 |
| 60              | 5356 | 5404 | 5270 | 5370 | 5504 |
| 65              | 5697 | 5717 | 5397 | 5707 | 5616 |
| 70              | 5351 | 5663 | 5544 | 5655 | 5650 |
| 75              | 5613 | 5625 | 5330 | 5678 | 5321 |
| 80              | 5307 | 5316 | 5538 | 5637 | 5413 |
| 85              | 5638 | 5485 | 5627 | 5291 | 5357 |
| 90              | 5382 | 5437 | 5562 | 5451 | 5596 |
| 95              | 5473 | 5366 | 5395 | 5509 | 5464 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_05

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5506 | 5624 | 5721 | 5579 | 5323 |
| 5               | 5694 | 5257 | 5662 | 5419 | 5590 |
| 10              | 5437 | 5494 | 5352 | 5422 | 5484 |
| 15              | 5438 | 5688 | 5496 | 5348 | 5406 |
| 20              | 5578 | 5337 | 5290 | 5611 | 5547 |
| 25              | 5433 | 5537 | 5533 | 5516 | 5350 |
| 30              | 5556 | 5372 | 5456 | 5541 | 5710 |
| 35              | 5302 | 5523 | 5658 | 5553 | 5524 |
| 40              | 5387 | 5396 | 5661 | 5633 | 5277 |
| 45              | 5260 | 5585 | 5582 | 5365 | 5697 |
| 50              | 5444 | 5409 | 5584 | 5457 | 5379 |
| 55              | 5615 | 5407 | 5546 | 5520 | 5490 |
| 60              | 5703 | 5663 | 5705 | 5691 | 5668 |
| 65              | 5550 | 5636 | 5320 | 5512 | 5675 |
| 70              | 5304 | 5716 | 5639 | 5503 | 5527 |
| 75              | 5295 | 5659 | 5606 | 5485 | 5681 |
| 80              | 5459 | 5384 | 5648 | 5501 | 5378 |
| 85              | 5689 | 5631 | 5305 | 5317 | 5297 |
| 90              | 5294 | 5264 | 5454 | 5617 | 5435 |
| 95              | 5452 | 5469 | 5690 | 5507 | 5562 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_06

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5664 | 5388 | 5657 | 5265 | 5543 |
| 5               | 5261 | 5279 | 5262 | 5582 | 5419 |
| 10              | 5368 | 5283 | 5393 | 5617 | 5505 |
| 15              | 5526 | 5340 | 5599 | 5598 | 5489 |
| 20              | 5503 | 5328 | 5603 | 5520 | 5321 |
| 25              | 5486 | 5620 | 5658 | 5445 | 5513 |
| 30              | 5587 | 5705 | 5361 | 5277 | 5490 |
| 35              | 5319 | 5336 | 5467 | 5363 | 5567 |
| 40              | 5334 | 5426 | 5630 | 5584 | 5715 |
| 45              | 5668 | 5640 | 5418 | 5477 | 5476 |
| 50              | 5460 | 5508 | 5407 | 5304 | 5569 |
| 55              | 5597 | 5268 | 5367 | 5649 | 5655 |
| 60              | 5648 | 5495 | 5531 | 5259 | 5394 |
| 65              | 5499 | 5672 | 5530 | 5307 | 5478 |
| 70              | 5473 | 5719 | 5524 | 5615 | 5462 |
| 75              | 5496 | 5415 | 5327 | 5694 | 5377 |
| 80              | 5447 | 5301 | 5320 | 5572 | 5561 |
| 85              | 5449 | 5721 | 5643 | 5404 | 5482 |
| 90              | 5303 | 5488 | 5471 | 5392 | 5413 |
| 95              | 5602 | 5299 | 5454 | 5351 | 5675 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_07

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5444 | 5627 | 5593 | 5426 | 5385 |
| 5               | 5303 | 5679 | 5337 | 5648 | 5626 |
| 10              | 5299 | 5547 | 5434 | 5526 | 5517 |
| 15              | 5467 | 5702 | 5438 | 5412 | 5497 |
| 20              | 5572 | 5269 | 5692 | 5493 | 5587 |
| 25              | 5338 | 5464 | 5346 | 5531 | 5431 |
| 30              | 5470 | 5327 | 5382 | 5656 | 5416 |
| 35              | 5581 | 5590 | 5586 | 5381 | 5677 |
| 40              | 5650 | 5272 | 5666 | 5724 | 5513 |
| 45              | 5695 | 5276 | 5601 | 5374 | 5267 |
| 50              | 5352 | 5321 | 5511 | 5597 | 5608 |
| 55              | 5723 | 5280 | 5523 | 5312 | 5562 |
| 60              | 5345 | 5690 | 5454 | 5680 | 5448 |
| 65              | 5611 | 5362 | 5674 | 5281 | 5545 |
| 70              | 5344 | 5373 | 5591 | 5421 | 5465 |
| 75              | 5568 | 5514 | 5329 | 5496 | 5541 |
| 80              | 5510 | 5298 | 5515 | 5551 | 5414 |
| 85              | 5524 | 5641 | 5686 | 5652 | 5701 |
| 90              | 5647 | 5406 | 5265 | 5500 | 5585 |
| 95              | 5252 | 5387 | 5313 | 5675 | 5697 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_08

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5699 | 5391 | 5529 | 5587 | 5605 |
| 5               | 5442 | 5701 | 5412 | 5336 | 5358 |
| 10              | 5608 | 5475 | 5435 | 5547 | 5497 |
| 15              | 5708 | 5483 | 5604 | 5505 | 5263 |
| 20              | 5685 | 5684 | 5466 | 5665 | 5667 |
| 25              | 5450 | 5251 | 5573 | 5320 | 5427 |
| 30              | 5445 | 5631 | 5379 | 5555 | 5672 |
| 35              | 5264 | 5392 | 5516 | 5258 | 5334 |
| 40              | 5721 | 5675 | 5359 | 5659 | 5629 |
| 45              | 5703 | 5562 | 5686 | 5431 | 5570 |
| 50              | 5468 | 5477 | 5502 | 5381 | 5309 |
| 55              | 5432 | 5510 | 5635 | 5256 | 5280 |
| 60              | 5626 | 5418 | 5397 | 5647 | 5572 |
| 65              | 5469 | 5559 | 5714 | 5255 | 5347 |
| 70              | 5600 | 5470 | 5380 | 5337 | 5558 |
| 75              | 5549 | 5291 | 5439 | 5277 | 5670 |
| 80              | 5673 | 5710 | 5454 | 5584 | 5261 |
| 85              | 5554 | 5648 | 5425 | 5521 | 5299 |
| 90              | 5288 | 5609 | 5602 | 5307 | 5484 |
| 95              | 5285 | 5303 | 5317 | 5723 | 5444 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_09

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5479 | 5630 | 5465 | 5273 | 5447 |
| 5               | 5484 | 5626 | 5487 | 5499 | 5662 |
| 10              | 5539 | 5697 | 5516 | 5568 | 5693 |
| 15              | 5624 | 5336 | 5431 | 5321 | 5416 |
| 20              | 5429 | 5723 | 5298 | 5439 | 5363 |
| 25              | 5614 | 5395 | 5554 | 5285 | 5712 |
| 30              | 5684 | 5384 | 5660 | 5308 | 5674 |
| 35              | 5694 | 5288 | 5279 | 5417 | 5306 |
| 40              | 5452 | 5438 | 5623 | 5574 | 5718 |
| 45              | 5274 | 5655 | 5442 | 5717 | 5480 |
| 50              | 5419 | 5579 | 5673 | 5613 | 5397 |
| 55              | 5254 | 5514 | 5656 | 5692 | 5578 |
| 60              | 5658 | 5561 | 5675 | 5580 | 5563 |
| 65              | 5678 | 5669 | 5716 | 5346 | 5683 |
| 70              | 5404 | 5361 | 5265 | 5311 | 5449 |
| 75              | 5446 | 5339 | 5659 | 5530 | 5543 |
| 80              | 5533 | 5297 | 5258 | 5670 | 5430 |
| 85              | 5454 | 5547 | 5453 | 5519 | 5602 |
| 90              | 5719 | 5502 | 5418 | 5711 | 5548 |
| 95              | 5619 | 5362 | 5468 | 5649 | 5406 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_10

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5637 | 5394 | 5401 | 5434 | 5667 |
| 5               | 5526 | 5648 | 5562 | 5662 | 5470 |
| 10              | 5486 | 5557 | 5350 | 5589 | 5306 |
| 15              | 5276 | 5439 | 5476 | 5513 | 5424 |
| 20              | 5498 | 5664 | 5290 | 5412 | 5629 |
| 25              | 5466 | 5501 | 5658 | 5319 | 5279 |
| 30              | 5670 | 5341 | 5400 | 5397 | 5261 |
| 35              | 5379 | 5550 | 5570 | 5695 | 5291 |
| 40              | 5521 | 5464 | 5339 | 5715 | 5678 |
| 45              | 5538 | 5525 | 5300 | 5533 | 5358 |
| 50              | 5374 | 5552 | 5361 | 5369 | 5385 |
| 55              | 5310 | 5593 | 5365 | 5395 | 5504 |
| 60              | 5615 | 5442 | 5295 | 5622 | 5614 |
| 65              | 5631 | 5543 | 5383 | 5324 | 5450 |
| 70              | 5298 | 5422 | 5653 | 5323 | 5705 |
| 75              | 5511 | 5320 | 5314 | 5461 | 5321 |
| 80              | 5625 | 5357 | 5512 | 5607 | 5645 |
| 85              | 5387 | 5349 | 5539 | 5270 | 5430 |
| 90              | 5255 | 5636 | 5417 | 5549 | 5556 |
| 95              | 5628 | 5509 | 5352 | 5410 | 5672 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_11

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5417 | 5633 | 5337 | 5595 | 5509 |
| 5               | 5568 | 5670 | 5637 | 5253 | 5601 |
| 10              | 5304 | 5275 | 5598 | 5545 | 5610 |
| 15              | 5297 | 5403 | 5542 | 5521 | 5705 |
| 20              | 5432 | 5664 | 5605 | 5379 | 5385 |
| 25              | 5517 | 5415 | 5704 | 5287 | 5353 |
| 30              | 5321 | 5559 | 5298 | 5615 | 5709 |
| 35              | 5692 | 5400 | 5470 | 5443 | 5345 |
| 40              | 5609 | 5604 | 5402 | 5482 | 5712 |
| 45              | 5510 | 5518 | 5608 | 5261 | 5586 |
| 50              | 5571 | 5550 | 5715 | 5575 | 5278 |
| 55              | 5305 | 5460 | 5339 | 5500 | 5691 |
| 60              | 5600 | 5722 | 5530 | 5567 | 5702 |
| 65              | 5330 | 5561 | 5643 | 5719 | 5658 |
| 70              | 5446 | 5426 | 5346 | 5552 | 5310 |
| 75              | 5453 | 5622 | 5398 | 5257 | 5373 |
| 80              | 5492 | 5475 | 5570 | 5625 | 5481 |
| 85              | 5442 | 5260 | 5354 | 5265 | 5352 |
| 90              | 5607 | 5597 | 5262 | 5357 | 5527 |
| 95              | 5690 | 5364 | 5472 | 5533 | 5454 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_12

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5672 | 5397 | 5273 | 5659 | 5254 |
| 5               | 5707 | 5595 | 5712 | 5416 | 5430 |
| 10              | 5710 | 5539 | 5261 | 5265 | 5631 |
| 15              | 5385 | 5530 | 5645 | 5469 | 5422 |
| 20              | 5343 | 5258 | 5643 | 5371 | 5358 |
| 25              | 5308 | 5267 | 5432 | 5488 | 5387 |
| 30              | 5460 | 5448 | 5255 | 5483 | 5415 |
| 35              | 5658 | 5714 | 5498 | 5620 | 5444 |
| 40              | 5687 | 5340 | 5722 | 5331 | 5439 |
| 45              | 5691 | 5319 | 5639 | 5458 | 5585 |
| 50              | 5251 | 5291 | 5664 | 5576 | 5627 |
| 55              | 5648 | 5293 | 5690 | 5510 | 5571 |
| 60              | 5376 | 5695 | 5512 | 5534 | 5253 |
| 65              | 5507 | 5466 | 5668 | 5597 | 5656 |
| 70              | 5318 | 5624 | 5296 | 5553 | 5374 |
| 75              | 5494 | 5419 | 5473 | 5252 | 5685 |
| 80              | 5351 | 5692 | 5544 | 5661 | 5637 |
| 85              | 5260 | 5630 | 5457 | 5370 | 5557 |
| 90              | 5522 | 5533 | 5716 | 5572 | 5292 |
| 95              | 5527 | 5517 | 5352 | 5489 | 5618 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_13

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5452 | 5636 | 5684 | 5345 | 5571 |
| 5               | 5274 | 5617 | 5312 | 5579 | 5637 |
| 10              | 5544 | 5328 | 5302 | 5363 | 5652 |
| 15              | 5473 | 5560 | 5651 | 5514 | 5614 |
| 20              | 5351 | 5424 | 5584 | 5460 | 5331 |
| 25              | 5671 | 5594 | 5635 | 5592 | 5421 |
| 30              | 5502 | 5434 | 5687 | 5710 | 5581 |
| 35              | 5510 | 5534 | 5380 | 5392 | 5278 |
| 40              | 5487 | 5368 | 5478 | 5299 | 5377 |
| 45              | 5692 | 5723 | 5364 | 5427 | 5342 |
| 50              | 5399 | 5361 | 5722 | 5405 | 5707 |
| 55              | 5445 | 5505 | 5385 | 5457 | 5463 |
| 60              | 5554 | 5550 | 5667 | 5633 | 5488 |
| 65              | 5588 | 5318 | 5379 | 5556 | 5698 |
| 70              | 5253 | 5650 | 5586 | 5562 | 5454 |
| 75              | 5504 | 5320 | 5607 | 5381 | 5561 |
| 80              | 5357 | 5638 | 5610 | 5593 | 5552 |
| 85              | 5660 | 5612 | 5618 | 5280 | 5539 |
| 90              | 5275 | 5485 | 5309 | 5582 | 5598 |
| 95              | 5347 | 5371 | 5721 | 5568 | 5358 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_14

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5707 | 5400 | 5620 | 5506 | 5316 |
| 5               | 5542 | 5387 | 5267 | 5369 | 5475 |
| 10              | 5689 | 5343 | 5558 | 5673 | 5561 |
| 15              | 5687 | 5279 | 5559 | 5331 | 5359 |
| 20              | 5493 | 5525 | 5452 | 5304 | 5462 |
| 25              | 5543 | 5363 | 5696 | 5358 | 5544 |
| 30              | 5323 | 5644 | 5688 | 5409 | 5433 |
| 35              | 5720 | 5365 | 5306 | 5426 | 5448 |
| 40              | 5694 | 5691 | 5252 | 5325 | 5675 |
| 45              | 5458 | 5382 | 5338 | 5648 | 5610 |
| 50              | 5715 | 5603 | 5393 | 5464 | 5697 |
| 55              | 5418 | 5549 | 5579 | 5595 | 5526 |
| 60              | 5416 | 5634 | 5550 | 5499 | 5295 |
| 65              | 5380 | 5496 | 5490 | 5566 | 5669 |
| 70              | 5698 | 5480 | 5608 | 5390 | 5656 |
| 75              | 5547 | 5704 | 5609 | 5335 | 5706 |
| 80              | 5532 | 5281 | 5333 | 5388 | 5545 |
| 85              | 5670 | 5552 | 5541 | 5556 | 5269 |
| 90              | 5528 | 5663 | 5391 | 5575 | 5377 |
| 95              | 5714 | 5594 | 5326 | 5637 | 5582 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_15

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5390 | 5639 | 5556 | 5667 | 5633 |
| 5               | 5358 | 5564 | 5462 | 5333 | 5576 |
| 10              | 5406 | 5478 | 5384 | 5278 | 5694 |
| 15              | 5552 | 5339 | 5382 | 5604 | 5620 |
| 20              | 5270 | 5659 | 5466 | 5541 | 5277 |
| 25              | 5350 | 5395 | 5469 | 5325 | 5392 |
| 30              | 5586 | 5687 | 5601 | 5428 | 5561 |
| 35              | 5253 | 5456 | 5674 | 5579 | 5459 |
| 40              | 5533 | 5558 | 5629 | 5322 | 5438 |
| 45              | 5465 | 5396 | 5701 | 5400 | 5591 |
| 50              | 5304 | 5444 | 5553 | 5520 | 5362 |
| 55              | 5262 | 5310 | 5345 | 5387 | 5288 |
| 60              | 5715 | 5602 | 5303 | 5442 | 5691 |
| 65              | 5515 | 5608 | 5530 | 5275 | 5411 |
| 70              | 5559 | 5351 | 5680 | 5568 | 5276 |
| 75              | 5513 | 5443 | 5644 | 5709 | 5355 |
| 80              | 5555 | 5272 | 5391 | 5616 | 5461 |
| 85              | 5493 | 5617 | 5298 | 5542 | 5551 |
| 90              | 5721 | 5596 | 5703 | 5343 | 5692 |
| 95              | 5566 | 5618 | 5707 | 5452 | 5313 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_16

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5645 | 5500 | 5492 | 5353 | 5378 |
| 5               | 5497 | 5489 | 5537 | 5496 | 5405 |
| 10              | 5715 | 5267 | 5425 | 5473 | 5640 |
| 15              | 5466 | 5485 | 5552 | 5337 | 5278 |
| 20              | 5253 | 5504 | 5533 | 5250 | 5616 |
| 25              | 5344 | 5672 | 5526 | 5426 | 5673 |
| 30              | 5558 | 5546 | 5335 | 5548 | 5523 |
| 35              | 5547 | 5470 | 5257 | 5373 | 5372 |
| 40              | 5263 | 5567 | 5635 | 5319 | 5436 |
| 45              | 5321 | 5454 | 5279 | 5287 | 5467 |
| 50              | 5480 | 5495 | 5642 | 5721 | 5684 |
| 55              | 5450 | 5487 | 5542 | 5358 | 5320 |
| 60              | 5389 | 5434 | 5604 | 5514 | 5464 |
| 65              | 5644 | 5265 | 5545 | 5689 | 5631 |
| 70              | 5284 | 5720 | 5656 | 5527 | 5273 |
| 75              | 5374 | 5419 | 5494 | 5688 | 5553 |
| 80              | 5301 | 5418 | 5564 | 5444 | 5708 |
| 85              | 5579 | 5556 | 5361 | 5668 | 5412 |
| 90              | 5593 | 5707 | 5654 | 5658 | 5381 |
| 95              | 5457 | 5272 | 5647 | 5516 | 5686 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_17

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5425 | 5264 | 5428 | 5514 | 5695 |
| 5               | 5539 | 5511 | 5612 | 5659 | 5646 |
| 10              | 5531 | 5466 | 5668 | 5261 | 5253 |
| 15              | 5496 | 5588 | 5597 | 5529 | 5286 |
| 20              | 5419 | 5445 | 5622 | 5698 | 5504 |
| 25              | 5671 | 5400 | 5630 | 5460 | 5292 |
| 30              | 5562 | 5515 | 5487 | 5271 | 5565 |
| 35              | 5260 | 5266 | 5507 | 5287 | 5686 |
| 40              | 5346 | 5505 | 5316 | 5365 | 5301 |
| 45              | 5631 | 5415 | 5332 | 5552 | 5721 |
| 50              | 5656 | 5546 | 5256 | 5544 | 5628 |
| 55              | 5638 | 5441 | 5593 | 5361 | 5707 |
| 60              | 5449 | 5570 | 5334 | 5527 | 5431 |
| 65              | 5715 | 5413 | 5583 | 5572 | 5437 |
| 70              | 5492 | 5325 | 5420 | 5472 | 5632 |
| 75              | 5486 | 5620 | 5494 | 5465 | 5475 |
| 80              | 5566 | 5681 | 5481 | 5549 | 5284 |
| 85              | 5347 | 5647 | 5639 | 5273 | 5326 |
| 90              | 5660 | 5397 | 5692 | 5263 | 5349 |
| 95              | 5474 | 5327 | 5414 | 5568 | 5658 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_18

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5680 | 5503 | 5364 | 5675 | 5440 |
| 5               | 5581 | 5436 | 5687 | 5347 | 5344 |
| 10              | 5577 | 5320 | 5507 | 5291 | 5282 |
| 15              | 5341 | 5623 | 5594 | 5642 | 5721 |
| 20              | 5672 | 5585 | 5386 | 5614 | 5671 |
| 25              | 5392 | 5523 | 5603 | 5259 | 5494 |
| 30              | 5334 | 5548 | 5472 | 5501 | 5261 |
| 35              | 5566 | 5704 | 5351 | 5634 | 5660 |
| 40              | 5298 | 5622 | 5429 | 5346 | 5640 |
| 45              | 5410 | 5294 | 5281 | 5714 | 5473 |
| 50              | 5385 | 5439 | 5597 | 5357 | 5442 |
| 55              | 5367 | 5475 | 5254 | 5395 | 5308 |
| 60              | 5655 | 5678 | 5578 | 5260 | 5376 |
| 65              | 5670 | 5353 | 5377 | 5441 | 5362 |
| 70              | 5619 | 5307 | 5707 | 5295 | 5397 |
| 75              | 5406 | 5387 | 5321 | 5608 | 5445 |
| 80              | 5589 | 5456 | 5717 | 5676 | 5462 |
| 85              | 5629 | 5544 | 5449 | 5479 | 5489 |
| 90              | 5602 | 5368 | 5669 | 5673 | 5336 |
| 95              | 5611 | 5465 | 5666 | 5361 | 5491 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_19

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5363 | 5267 | 5300 | 5361 | 5282 |
| 5               | 5623 | 5458 | 5287 | 5510 | 5648 |
| 10              | 5411 | 5681 | 5645 | 5486 | 5303 |
| 15              | 5332 | 5275 | 5697 | 5687 | 5438 |
| 20              | 5680 | 5654 | 5424 | 5703 | 5644 |
| 25              | 5658 | 5472 | 5331 | 5528 | 5473 |
| 30              | 5437 | 5429 | 5716 | 5413 | 5289 |
| 35              | 5368 | 5442 | 5430 | 5338 | 5461 |
| 40              | 5512 | 5284 | 5308 | 5407 | 5601 |
| 45              | 5261 | 5322 | 5531 | 5704 | 5436 |
| 50              | 5665 | 5419 | 5349 | 5498 | 5474 |
| 55              | 5649 | 5707 | 5425 | 5321 | 5502 |
| 60              | 5323 | 5264 | 5311 | 5655 | 5614 |
| 65              | 5599 | 5573 | 5566 | 5392 | 5390 |
| 70              | 5487 | 5404 | 5259 | 5494 | 5718 |
| 75              | 5318 | 5446 | 5674 | 5250 | 5662 |
| 80              | 5560 | 5634 | 5627 | 5584 | 5334 |
| 85              | 5630 | 5672 | 5663 | 5405 | 5470 |
| 90              | 5508 | 5696 | 5685 | 5389 | 5525 |
| 95              | 5596 | 5292 | 5465 | 5720 | 5520 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_20

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5618 | 5506 | 5711 | 5425 | 5502 |
| 5               | 5287 | 5383 | 5362 | 5576 | 5380 |
| 10              | 5342 | 5470 | 5686 | 5681 | 5324 |
| 15              | 5420 | 5402 | 5325 | 5635 | 5630 |
| 20              | 5688 | 5345 | 5365 | 5695 | 5617 |
| 25              | 5546 | 5437 | 5564 | 5562 | 5515 |
| 30              | 5326 | 5386 | 5359 | 5662 | 5584 |
| 35              | 5410 | 5533 | 5701 | 5588 | 5601 |
| 40              | 5300 | 5692 | 5697 | 5548 | 5404 |
| 45              | 5530 | 5716 | 5405 | 5492 | 5394 |
| 50              | 5591 | 5349 | 5612 | 5699 | 5620 |
| 55              | 5391 | 5266 | 5303 | 5671 | 5361 |
| 60              | 5687 | 5334 | 5577 | 5366 | 5465 |
| 65              | 5260 | 5594 | 5279 | 5638 | 5378 |
| 70              | 5393 | 5494 | 5463 | 5363 | 5430 |
| 75              | 5282 | 5322 | 5418 | 5271 | 5499 |
| 80              | 5385 | 5292 | 5443 | 5491 | 5250 |
| 85              | 5270 | 5625 | 5277 | 5678 | 5357 |
| 90              | 5532 | 5320 | 5579 | 5622 | 5680 |
| 95              | 5408 | 5723 | 5417 | 5605 | 5639 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_21

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5398 | 5270 | 5647 | 5586 | 5344 |
| 5               | 5329 | 5405 | 5437 | 5264 | 5587 |
| 10              | 5273 | 5259 | 5252 | 5401 | 5345 |
| 15              | 5508 | 5529 | 5428 | 5680 | 5347 |
| 20              | 5599 | 5414 | 5306 | 5309 | 5590 |
| 25              | 5337 | 5640 | 5668 | 5596 | 5557 |
| 30              | 5312 | 5343 | 5574 | 5339 | 5307 |
| 35              | 5549 | 5624 | 5594 | 5266 | 5612 |
| 40              | 5614 | 5300 | 5635 | 5313 | 5362 |
| 45              | 5696 | 5488 | 5550 | 5447 | 5381 |
| 50              | 5603 | 5275 | 5709 | 5689 | 5685 |
| 55              | 5257 | 5403 | 5490 | 5494 | 5393 |
| 60              | 5377 | 5686 | 5641 | 5288 | 5684 |
| 65              | 5630 | 5656 | 5664 | 5710 | 5461 |
| 70              | 5493 | 5721 | 5439 | 5700 | 5302 |
| 75              | 5402 | 5368 | 5399 | 5426 | 5434 |
| 80              | 5280 | 5355 | 5440 | 5628 | 5372 |
| 85              | 5370 | 5632 | 5605 | 5352 | 5485 |
| 90              | 5634 | 5547 | 5591 | 5639 | 5578 |
| 95              | 5387 | 5595 | 5543 | 5629 | 5282 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_22

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5653 | 5509 | 5583 | 5272 | 5564 |
| 5               | 5371 | 5330 | 5512 | 5427 | 5416 |
| 10              | 5582 | 5523 | 5293 | 5499 | 5366 |
| 15              | 5596 | 5559 | 5531 | 5250 | 5539 |
| 20              | 5607 | 5580 | 5344 | 5301 | 5563 |
| 25              | 5700 | 5600 | 5368 | 5297 | 5630 |
| 30              | 5696 | 5676 | 5300 | 5314 | 5588 |
| 35              | 5602 | 5688 | 5715 | 5390 | 5419 |
| 40              | 5526 | 5550 | 5383 | 5573 | 5456 |
| 45              | 5398 | 5291 | 5571 | 5608 | 5500 |
| 50              | 5268 | 5479 | 5489 | 5326 | 5420 |
| 55              | 5532 | 5686 | 5593 | 5309 | 5465 |
| 60              | 5522 | 5542 | 5253 | 5570 | 5704 |
| 65              | 5258 | 5633 | 5666 | 5391 | 5556 |
| 70              | 5360 | 5404 | 5447 | 5496 | 5415 |
| 75              | 5659 | 5271 | 5511 | 5380 | 5678 |
| 80              | 5536 | 5713 | 5515 | 5437 | 5406 |
| 85              | 5648 | 5335 | 5586 | 5378 | 5650 |
| 90              | 5312 | 5668 | 5429 | 5656 | 5270 |
| 95              | 5476 | 5269 | 5698 | 5266 | 5277 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_23

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5433 | 5273 | 5519 | 5406 | 5413 |
| 5               | 5352 | 5587 | 5590 | 5623 | 5513 |
| 10              | 5312 | 5334 | 5694 | 5387 | 5686 |
| 15              | 5537 | 5673 | 5353 | 5615 | 5649 |
| 20              | 5285 | 5390 | 5536 | 5491 | 5452 |
| 25              | 5571 | 5401 | 5664 | 5263 | 5565 |
| 30              | 5257 | 5529 | 5265 | 5422 | 5428 |
| 35              | 5661 | 5669 | 5440 | 5389 | 5466 |
| 40              | 5511 | 5696 | 5492 | 5695 | 5559 |
| 45              | 5654 | 5569 | 5553 | 5533 | 5355 |
| 50              | 5665 | 5377 | 5509 | 5335 | 5476 |
| 55              | 5719 | 5640 | 5308 | 5506 | 5436 |
| 60              | 5651 | 5707 | 5402 | 5627 | 5301 |
| 65              | 5582 | 5605 | 5698 | 5351 | 5638 |
| 70              | 5596 | 5419 | 5391 | 5618 | 5715 |
| 75              | 5642 | 5557 | 5458 | 5455 | 5317 |
| 80              | 5578 | 5434 | 5601 | 5531 | 5368 |
| 85              | 5708 | 5659 | 5678 | 5637 | 5626 |
| 90              | 5370 | 5340 | 5318 | 5689 | 5657 |
| 95              | 5254 | 5374 | 5723 | 5326 | 5464 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_24

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5591 | 5512 | 5455 | 5594 | 5626 |
| 5               | 5552 | 5277 | 5662 | 5656 | 5355 |
| 10              | 5347 | 5673 | 5375 | 5414 | 5408 |
| 15              | 5675 | 5338 | 5640 | 5718 | 5545 |
| 20              | 5526 | 5340 | 5701 | 5382 | 5509 |
| 25              | 5379 | 5401 | 5299 | 5602 | 5698 |
| 30              | 5305 | 5551 | 5689 | 5647 | 5514 |
| 35              | 5620 | 5394 | 5519 | 5457 | 5451 |
| 40              | 5703 | 5646 | 5449 | 5461 | 5489 |
| 45              | 5527 | 5539 | 5359 | 5627 | 5606 |
| 50              | 5420 | 5706 | 5366 | 5428 | 5598 |
| 55              | 5536 | 5323 | 5335 | 5325 | 5407 |
| 60              | 5397 | 5618 | 5709 | 5453 | 5722 |
| 65              | 5513 | 5531 | 5641 | 5433 | 5441 |
| 70              | 5645 | 5516 | 5599 | 5268 | 5367 |
| 75              | 5577 | 5587 | 5287 | 5700 | 5439 |
| 80              | 5707 | 5667 | 5573 | 5469 | 5334 |
| 85              | 5321 | 5434 | 5685 | 5671 | 5376 |
| 90              | 5643 | 5399 | 5568 | 5505 | 5324 |
| 95              | 5639 | 5571 | 5346 | 5312 | 5712 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_25

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5371 | 5276 | 5391 | 5280 | 5468 |
| 5               | 5594 | 5299 | 5262 | 5344 | 5659 |
| 10              | 5278 | 5462 | 5416 | 5609 | 5429 |
| 15              | 5288 | 5465 | 5268 | 5534 | 5409 |
| 20              | 5264 | 5471 | 5482 | 5267 | 5253 |
| 25              | 5405 | 5706 | 5257 | 5444 | 5440 |
| 30              | 5646 | 5387 | 5666 | 5533 | 5610 |
| 35              | 5350 | 5500 | 5365 | 5542 | 5254 |
| 40              | 5290 | 5701 | 5486 | 5456 | 5519 |
| 45              | 5442 | 5685 | 5485 | 5479 | 5687 |
| 50              | 5359 | 5523 | 5548 | 5591 | 5619 |
| 55              | 5281 | 5434 | 5562 | 5563 | 5541 |
| 60              | 5376 | 5668 | 5714 | 5480 | 5580 |
| 65              | 5265 | 5513 | 5622 | 5717 | 5502 |
| 70              | 5699 | 5592 | 5721 | 5536 | 5556 |
| 75              | 5310 | 5368 | 5420 | 5484 | 5680 |
| 80              | 5354 | 5633 | 5704 | 5331 | 5613 |
| 85              | 5337 | 5624 | 5256 | 5568 | 5511 |
| 90              | 5642 | 5550 | 5388 | 5670 | 5427 |
| 95              | 5576 | 5453 | 5455 | 5329 | 5292 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_26

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5626 | 5515 | 5327 | 5441 | 5688 |
| 5               | 5636 | 5699 | 5337 | 5507 | 5391 |
| 10              | 5684 | 5251 | 5457 | 5329 | 5450 |
| 15              | 5376 | 5592 | 5371 | 5333 | 5454 |
| 20              | 5542 | 5575 | 5680 | 5463 | 5455 |
| 25              | 5533 | 5677 | 5608 | 5335 | 5291 |
| 30              | 5486 | 5426 | 5603 | 5602 | 5440 |
| 35              | 5638 | 5672 | 5701 | 5621 | 5275 |
| 40              | 5279 | 5381 | 5703 | 5369 | 5483 |
| 45              | 5288 | 5499 | 5525 | 5646 | 5615 |
| 50              | 5572 | 5361 | 5718 | 5530 | 5301 |
| 55              | 5657 | 5589 | 5711 | 5405 | 5306 |
| 60              | 5438 | 5252 | 5563 | 5605 | 5373 |
| 65              | 5537 | 5429 | 5616 | 5475 | 5425 |
| 70              | 5411 | 5488 | 5702 | 5344 | 5697 |
| 75              | 5495 | 5428 | 5430 | 5414 | 5401 |
| 80              | 5261 | 5315 | 5610 | 5322 | 5389 |
| 85              | 5328 | 5466 | 5694 | 5663 | 5476 |
| 90              | 5596 | 5323 | 5586 | 5360 | 5433 |
| 95              | 5713 | 5564 | 5346 | 5347 | 5303 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_27

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5406 | 5279 | 5263 | 5505 | 5530 |
| 5               | 5678 | 5721 | 5412 | 5670 | 5598 |
| 10              | 5518 | 5515 | 5595 | 5427 | 5471 |
| 15              | 5367 | 5622 | 5474 | 5281 | 5646 |
| 20              | 5453 | 5644 | 5621 | 5552 | 5428 |
| 25              | 5421 | 5529 | 5336 | 5439 | 5325 |
| 30              | 5528 | 5315 | 5560 | 5342 | 5592 |
| 35              | 5458 | 5317 | 5417 | 5290 | 5517 |
| 40              | 5641 | 5609 | 5480 | 5692 | 5479 |
| 45              | 5608 | 5704 | 5668 | 5362 | 5712 |
| 50              | 5419 | 5581 | 5487 | 5533 | 5424 |
| 55              | 5359 | 5496 | 5635 | 5698 | 5550 |
| 60              | 5302 | 5503 | 5657 | 5378 | 5652 |
| 65              | 5307 | 5675 | 5703 | 5483 | 5705 |
| 70              | 5673 | 5454 | 5397 | 5557 | 5382 |
| 75              | 5416 | 5425 | 5391 | 5486 | 5452 |
| 80              | 5715 | 5308 | 5380 | 5344 | 5647 |
| 85              | 5571 | 5525 | 5547 | 5576 | 5363 |
| 90              | 5402 | 5287 | 5538 | 5445 | 5500 |
| 95              | 5590 | 5476 | 5252 | 5446 | 5432 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_28

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5564 | 5518 | 5674 | 5666 | 5275 |
| 5               | 5342 | 5646 | 5487 | 5261 | 5427 |
| 10              | 5449 | 5304 | 5636 | 5622 | 5492 |
| 15              | 5455 | 5274 | 5480 | 5326 | 5363 |
| 20              | 5461 | 5335 | 5659 | 5544 | 5401 |
| 25              | 5687 | 5381 | 5539 | 5640 | 5359 |
| 30              | 5570 | 5679 | 5517 | 5460 | 5366 |
| 35              | 5656 | 5378 | 5505 | 5310 | 5581 |
| 40              | 5631 | 5600 | 5579 | 5374 | 5574 |
| 45              | 5621 | 5459 | 5691 | 5287 | 5721 |
| 50              | 5724 | 5491 | 5595 | 5632 | 5576 |
| 55              | 5681 | 5380 | 5612 | 5313 | 5686 |
| 60              | 5454 | 5669 | 5582 | 5495 | 5609 |
| 65              | 5426 | 5603 | 5561 | 5327 | 5591 |
| 70              | 5470 | 5506 | 5652 | 5557 | 5330 |
| 75              | 5649 | 5413 | 5269 | 5670 | 5668 |
| 80              | 5438 | 5647 | 5553 | 5515 | 5322 |
| 85              | 5723 | 5618 | 5722 | 5717 | 5475 |
| 90              | 5309 | 5601 | 5344 | 5604 | 5690 |
| 95              | 5445 | 5685 | 5457 | 5368 | 5436 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_29

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5344 | 5282 | 5610 | 5352 | 5592 |
| 5               | 5384 | 5668 | 5562 | 5424 | 5634 |
| 10              | 5380 | 5665 | 5677 | 5342 | 5513 |
| 15              | 5543 | 5401 | 5583 | 5371 | 5555 |
| 20              | 5469 | 5501 | 5600 | 5633 | 5374 |
| 25              | 5575 | 5330 | 5267 | 5269 | 5393 |
| 30              | 5709 | 5474 | 5675 | 5518 | 5476 |
| 35              | 5517 | 5596 | 5581 | 5356 | 5593 |
| 40              | 5470 | 5683 | 5614 | 5571 | 5453 |
| 45              | 5299 | 5723 | 5514 | 5367 | 5296 |
| 50              | 5504 | 5324 | 5325 | 5273 | 5378 |
| 55              | 5272 | 5537 | 5441 | 5252 | 5549 |
| 60              | 5287 | 5276 | 5627 | 5349 | 5362 |
| 65              | 5309 | 5724 | 5333 | 5366 | 5625 |
| 70              | 5372 | 5713 | 5315 | 5271 | 5445 |
| 75              | 5548 | 5428 | 5717 | 5697 | 5443 |
| 80              | 5618 | 5564 | 5680 | 5667 | 5652 |
| 85              | 5615 | 5262 | 5494 | 5512 | 5334 |
| 90              | 5306 | 5421 | 5305 | 5522 | 5620 |
| 95              | 5413 | 5619 | 5284 | 5552 | 5714 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_30

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5599 | 5521 | 5546 | 5513 | 5337 |
| 5               | 5426 | 5593 | 5637 | 5587 | 5366 |
| 10              | 5689 | 5454 | 5718 | 5537 | 5534 |
| 15              | 5631 | 5528 | 5686 | 5416 | 5272 |
| 20              | 5380 | 5570 | 5541 | 5625 | 5347 |
| 25              | 5657 | 5373 | 5427 | 5276 | 5554 |
| 30              | 5431 | 5415 | 5292 | 5296 | 5656 |
| 35              | 5687 | 5377 | 5509 | 5604 | 5309 |
| 40              | 5291 | 5455 | 5282 | 5568 | 5382 |
| 45              | 5322 | 5306 | 5352 | 5401 | 5472 |
| 50              | 5259 | 5279 | 5327 | 5646 | 5696 |
| 55              | 5591 | 5470 | 5514 | 5507 | 5437 |
| 60              | 5482 | 5273 | 5553 | 5592 | 5585 |
| 65              | 5700 | 5566 | 5559 | 5632 | 5490 |
| 70              | 5321 | 5529 | 5433 | 5601 | 5331 |
| 75              | 5338 | 5317 | 5325 | 5697 | 5658 |
| 80              | 5684 | 5406 | 5263 | 5694 | 5260 |
| 85              | 5503 | 5265 | 5384 | 5617 | 5606 |
| 90              | 5365 | 5622 | 5545 | 5552 | 5522 |
| 95              | 5511 | 5567 | 5336 | 5707 | 5663 |

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