



## DFS TEST REPORT

**REPORT NO.:** RF141003E10B-4 R1

**MODEL NO.:** EX6150

**FCC ID:** PY314300283

**RECEIVED:** Apr. 17, 2015

**TESTED:** July 14, 2015

**ISSUED:** Sep. 11, 2015

**APPLICANT:** NETGEAR

**ADDRESS:** 350 East Plumeria Drive San Jose, CA 95134

**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd.,  
Taoyuan Branch Hsin Chu Laboratory

**LAB ADDRESS :** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung  
Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C.

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### RELEASE CONTROL RECORD

| ISSUE NO.         | REASON FOR CHANGE                                    | DATE ISSUED   |
|-------------------|--|---------------|
| RF141003E10B-4    | Original release                                     | Aug. 03, 2015 |
| RF141003E10B-4 R1 | Added the radar test frequencies used for Radar 1~4. | Sep. 11, 2015 |

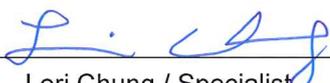


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## 1. CERTIFICATION

**PRODUCT:** AC1200 WiFi Range Extender  
**BRAND NAME:** NETGEAR  
**MODEL NO.:** EX6150  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** NETGEAR  
**TESTED:** July 14, 2015  
**STANDARDS:** FCC Part 15, Subpart E (Section 15.407)  
KDB 905462 D02 UNII DFS Compliance Procedures New Rules  
v01r02

The above equipment (Model: EX6150) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and was in compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** Sep. 11, 2015  
Lori Chung / Specialist

**Approved by :**  , **Date:** Sep. 11, 2015  
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<br>(5600~5650MHz will be disabled) |
| Client with radar detection | ✓                         | ✓   |

### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

**Table 2: The EUT software/firmware version.**

| No. | Product                    | Model No. | Software/Firmware Version |
|-----|----------------------------|-----------|---------------------------|
| 1   | AC1200 WiFi Range Extender | EX6150    | Version: V1.0.0.15_1.0.56 |



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## 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

**Table 3: Antenna list.**

| PCB Chain No. | Brand   | Model | Antenna Gain(dBi)<br>< including cable loss> | Frequency range<br>(MHz ~ MHz) | Antenna Type | Connecter Type | Cable Length (mm) |
|---------------|---------|-------|--|--------------------------------|--------------|----------------|-------------------|
| Chain 0       | NETGEAR | NA    | 3.1  | 2400~2500                      | Dipole       | i-pex          | 50                |
|               |         |       | 2.7  | 5150~5250                      |              |                |                   |
|               |         |       | 2.9  | 5250~5350                      |              |                |                   |
|               |         |       | 2.2  | 5470~5725                      |              |                |                   |
|               |         |       | 2.6  | 5725~5850                      |              |                |                   |
| Chain 1       | NETGEAR | NA    | 3.1  | 2400~2500                      | Dipole       | i-pex          | 50                |
|               |         |       | 2.7  | 5150~5250                      |              |                |                   |
|               |         |       | 2.9  | 5250~5350                      |              |                |                   |
|               |         |       | 2.2  | 5470~5725                      |              |                |                   |
|               |         |       | 2.6  | 5725~5850                      |              |                |                   |



## 2.4 EUT MAXIMUM CONDUCTED POWER

TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER

### 802.11a

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 23.91             | 246.064          |
| 5470~5725MHz        | 23.98             | 249.768          |

### 802.11ac (VHT20)

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 23.93             | 247.222          |
| 5470~5725MHz        | 23.92             | 246.645          |

### 802.11ac (VHT40)

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 23.93             | 247.195          |
| 5470~5725MHz        | 23.73             | 236.055          |

### 802.11ac (VHT80)

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 18.43             | 69.616           |
| 5470~5725MHz        | 17.47             | 55.855           |



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## 2.5 EUT MAXIMUM EIRP POWER

TABLE 5: THE EIRP OUTPUT POWER LIST

### 802.11a

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 26.81             | 479.787          |
| 5470~5725MHz        | 26.18             | 414.512          |

### 802.11ac (VHT20)

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 26.83             | 482.044          |
| 5470~5725MHz        | 26.12             | 409.329          |

### 802.11ac (VHT40)

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 26.83             | 481.992          |
| 5470~5725MHz        | 25.93             | 391.754          |

### 802.11ac (VHT80)

| Frequency Band(MHz) | MAX. Power        |                  |
|---------------------|-------------------|------------------|
|                     | Output Power(dBm) | Output Power(mW) |
| 5250~5350MHz        | 21.33             | 135.740          |
| 5470~5725MHz        | 19.67             | 92.696           |

## 2.6 TRANSMIT POWER CONTROL (TPC) MECHANISM

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 EIRP of less than 500 mW.

Maximum EIRP of this device is 482.044mW which less than 500mW, therefore it's not require TPC function.

## 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.



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### 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            | ✓                | Not required                   | ✓                           |
| DFS Detection Threshold         | ✓                | Not required                   | ✓                           |
| Channel Availability Check Time | ✓                | Not required                   | Not required                |
| U-NII Detection Bandwidth       | ✓                | Not required                   | ✓                           |



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**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 power spectral density < 10 dBm/MHz                 | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement | -64 dBm                          |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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**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 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3                                    |

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

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

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



**PARAMETERS OF DFS TEST SIGNALS**

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

**TABLE 10: SHORT PULSE RADAR TEST WAVEFORMS**

| Radar Type   | Pulse Width (μsec) | PRI (μsec)  | Number of Pulses   | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--|--------------------|---|--|--|--------------------------|
| 0  | 1                  | 1428  | 18   | See Note 1                                 | See Note 1               |
| 1  | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>-----<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A | $\text{Roundup} \left\{ \begin{array}{l} \left( \frac{1}{360} \right) \\ \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$ | 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. |                    |   |  |  |                          |



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**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                       |

**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                       |



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#### 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              | FSP40     | 100060     | May 08, 2015    | May 07, 2016     |
| Vector Signal Generator<br>Agilent | N5182B    | MY53051263 | Sep. 17, 2014   | Sep. 16, 2015    |

##### 4.2 DESCRIPTION OF SUPPORT UNITS

Table 14: Support Unit information.

| NO. | PRODUCT            | BRAND  | MODEL NO. | ID              | SPEC.   |
|-----|--------------------|--------|-----------|-----------------|---|
| 1   | WIRELESS AC MODULE | D-Link | WMC-AC01  | RRK2012060056-1 | The maximum EIRP is 27.64 dBm, Antenna Gain is 3.428dBi |

**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.  | WIRELESS AC MODULE | WMC-AC01  | 1.00 Wed 06 Mar 2013      |

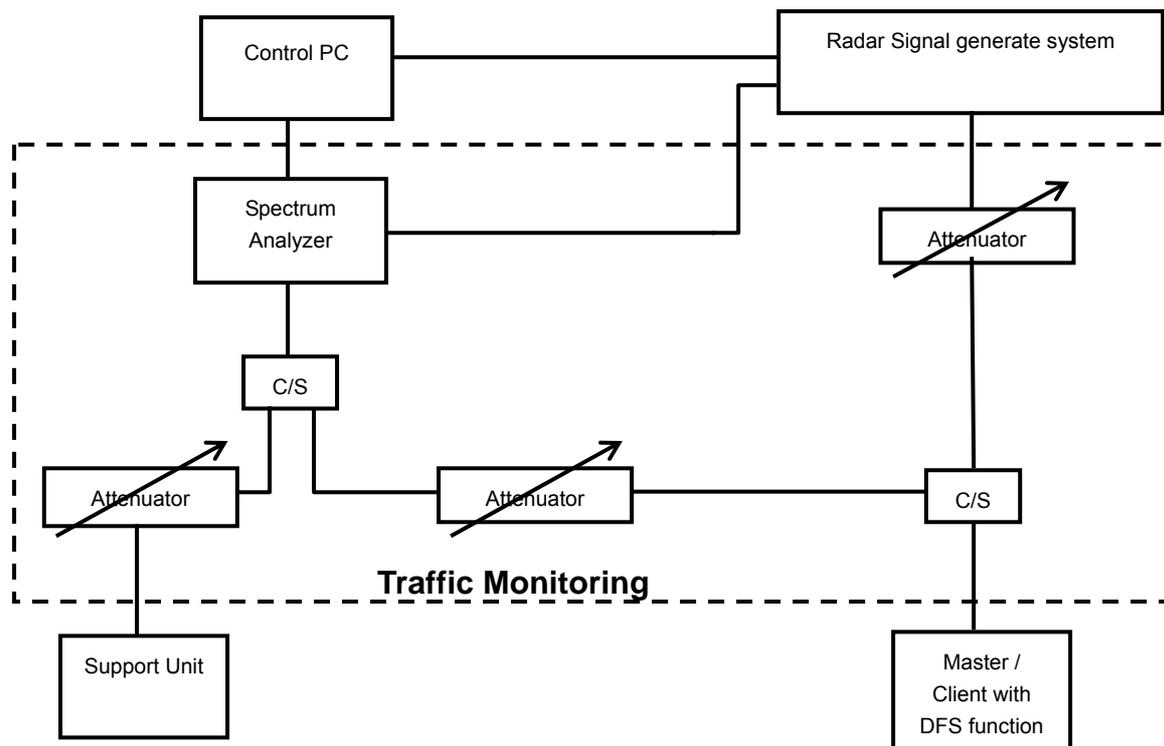
Note: This module WMC-AC01 was installed in the DIR-868L AP.

## 5. TEST PROCEDURE

### 5.1 DFS MEASUREMENT SYSTEM:

A complete DFS Measurement System consists of Radar signal generate system to generating the radar waveforms in Table 10, 11 and 12. The traffic monitoring system is specified to the type of unit under test (UUT).

#### Conducted 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:

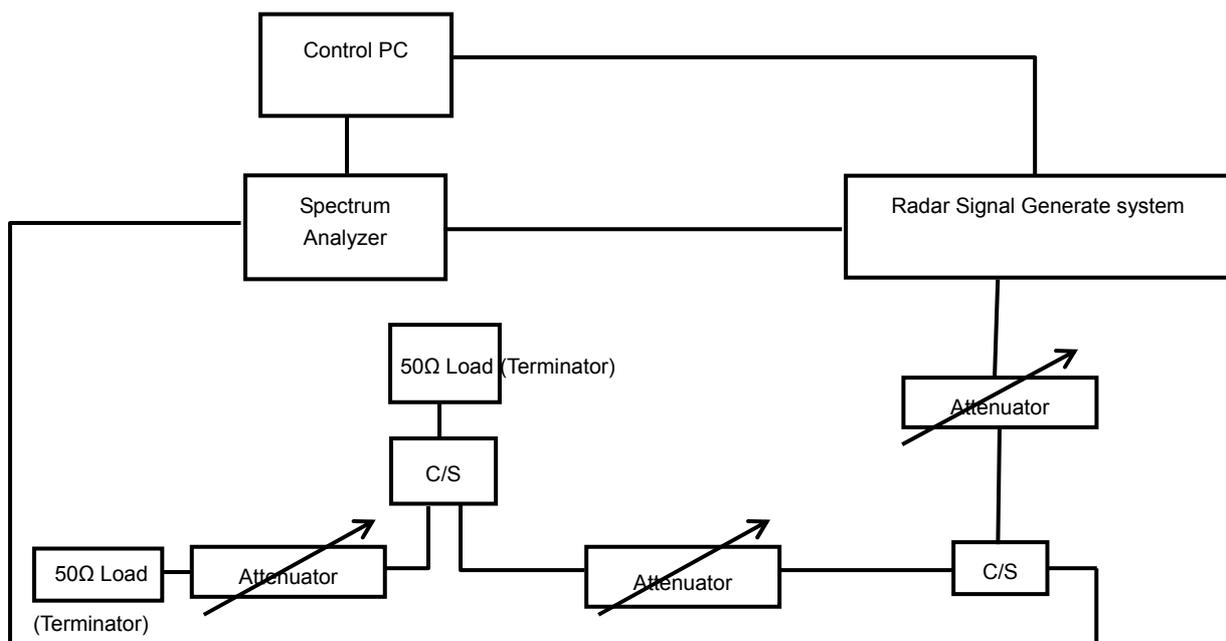
The measured channel is 5500MHz in 20MHz and 5510MHz in 40MHz and 5530 in 80MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

### 5.2.1 CLIENT WITH RADAR DETECTION MODE

The Client antenna net gain is 2.2dBi and required detection threshold is -60.8dBm (= -64+2.2+1)dBm.

The calibrated conducted detection threshold level is -60.8dBm.

#### Conducted setup configuration of Calibration of DFS Detection Threshold Level

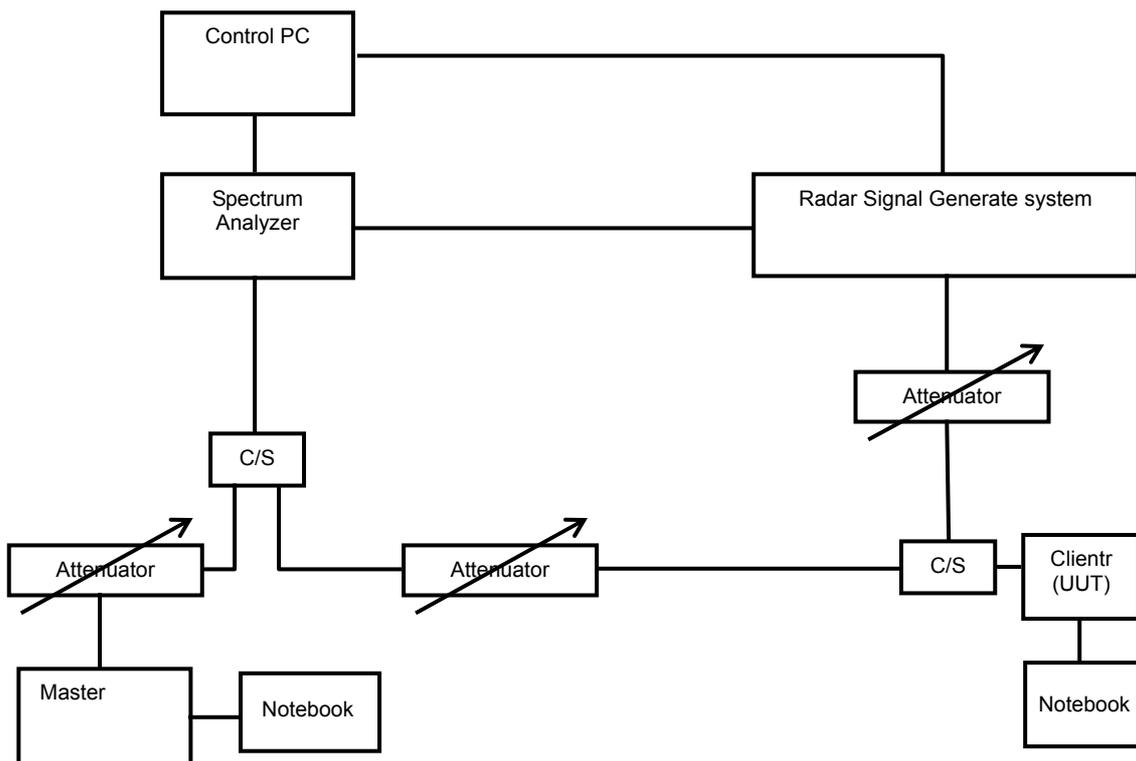


### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 CONDUCTED TEST SETUP CONFIGURATION

#### CLIENT WITH RADAR DETECTION MODE



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



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## 6. TEST RESULTS

### 6.1 SUMMARY OF TEST RESULT

#### CLIENT WITH RADAR DETECTION MODE

| Clause | Test Parameter                    | Remarks      | Pass/Fail |
|--------|-----------------------------------|--------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable   | Pass      |
| 15.407 | Channel Availability Check Time   | Not required | N/A       |
| 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      |
| 15.407 | Non-Co-Channel test               | Applicable   | Pass      |



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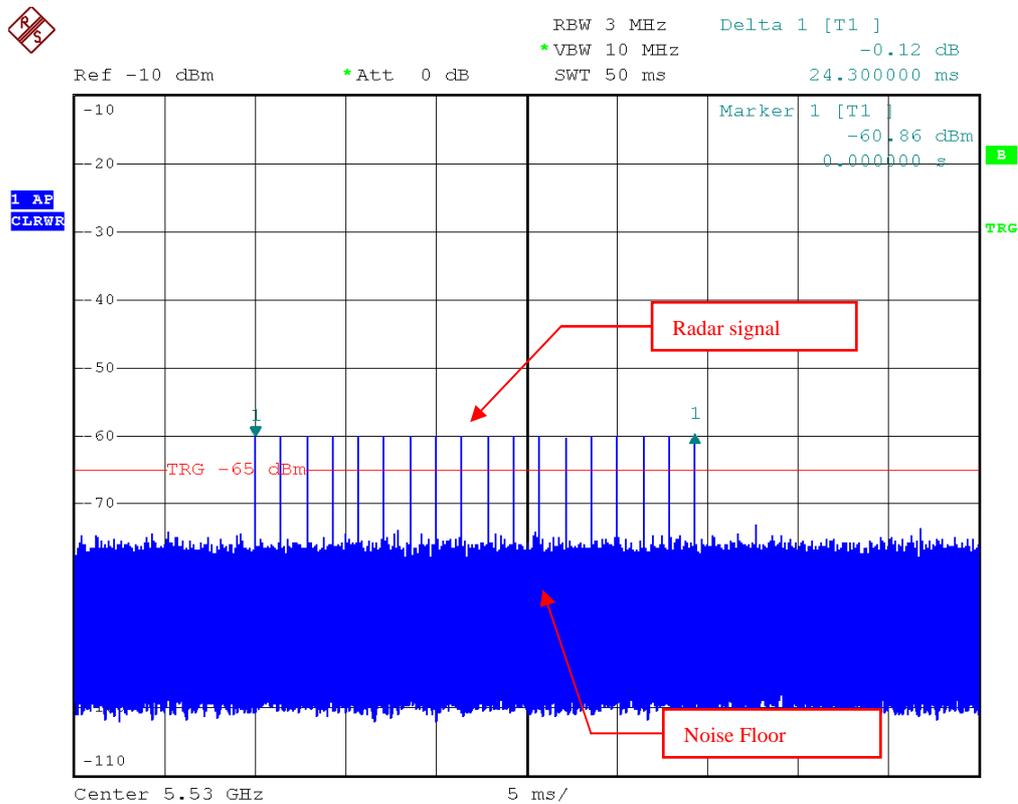
## 6.2 DETAILED TEST RESULTS

### 6.2.1. TEST MODE: DEVICE OPERATING IN CLIENT WITH RADAR DETECTION MODE

The radar test signals are injected into the Client with radar detection Device.

#### 6.2.1.1 DFS DETECTION THRESHOLD

The required detection threshold is  $-60.8\text{ dBm}$  ( $= -64 + 2.2 + 1$ ) dBm. The conducted radar burst level is lower than  $-60.8\text{ dBm}$ .



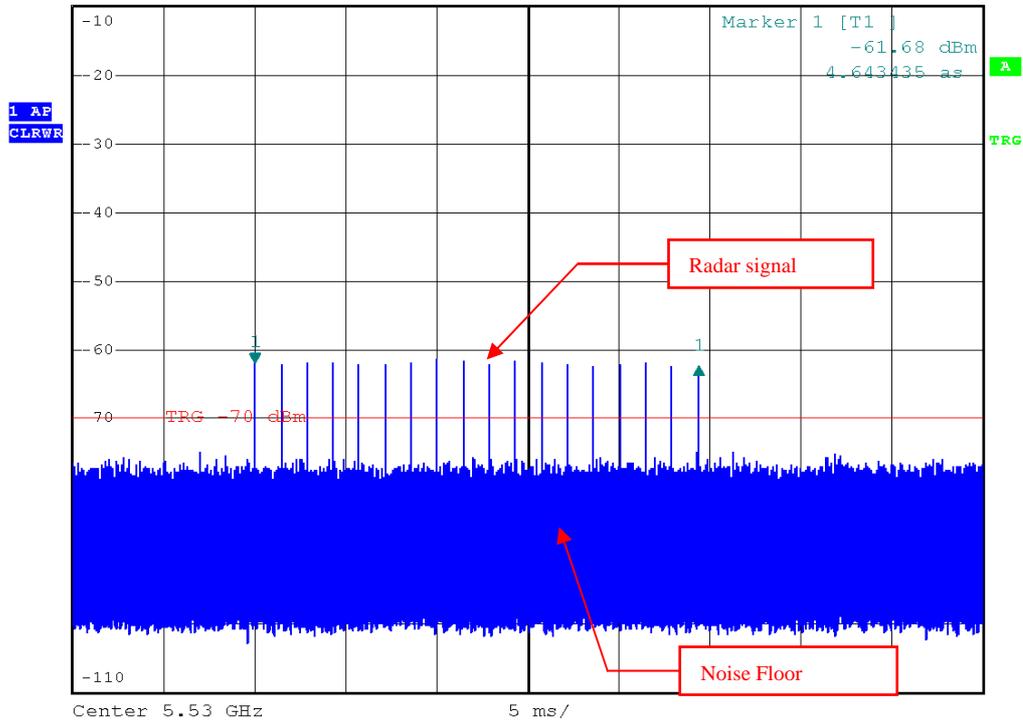
Radar Signal 0



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Delta 1 [T1 ]  
VBW 10 MHz      -0.40 dB  
SWT 50 ms      24.400000 ms



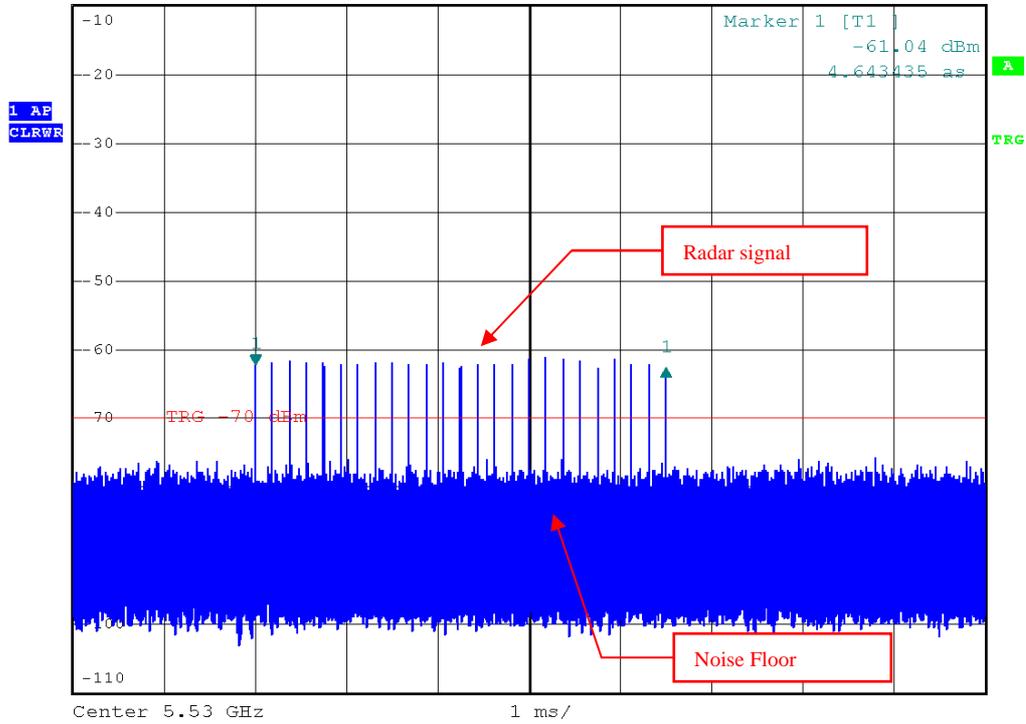
Radar Signal 1



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Delta 1 [T1 ]  
VBW 10 MHz      -0.46 dB  
SWT 10 ms      4.501000 ms



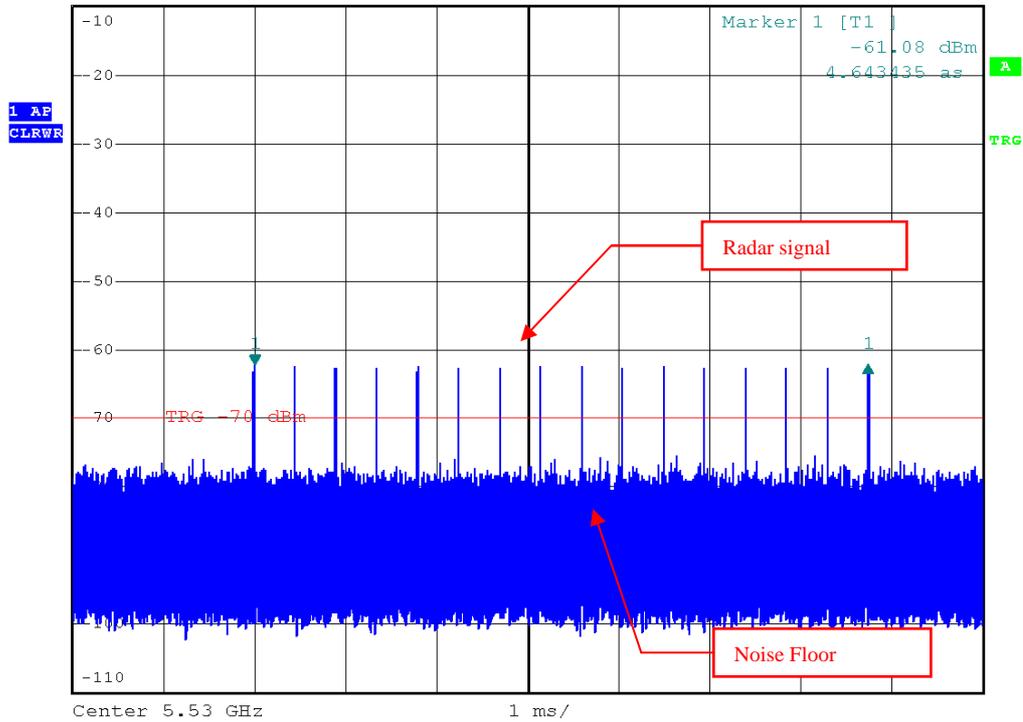
### Radar Signal 2



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Delta 1 [T1 ]  
VBW 10 MHz      -0.06 dB  
SWT 10 ms      6.740000 ms



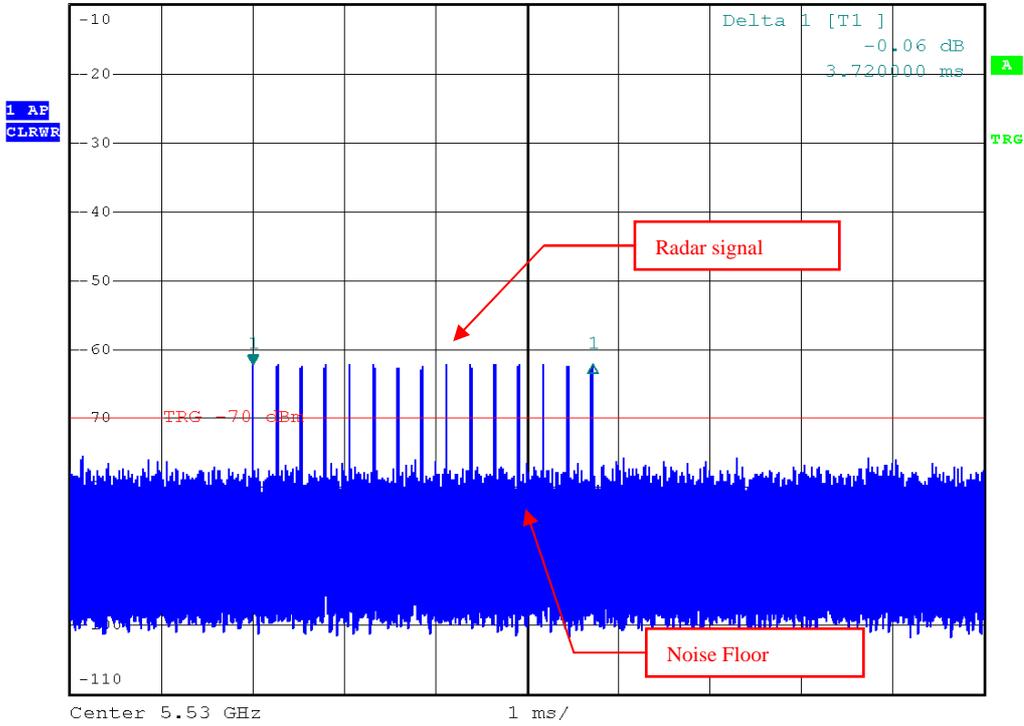
### Radar Signal 3



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Marker 1 [T1 ]  
VBW 10 MHz      -61.03 dBm  
SWT 10 ms      4.643435 as



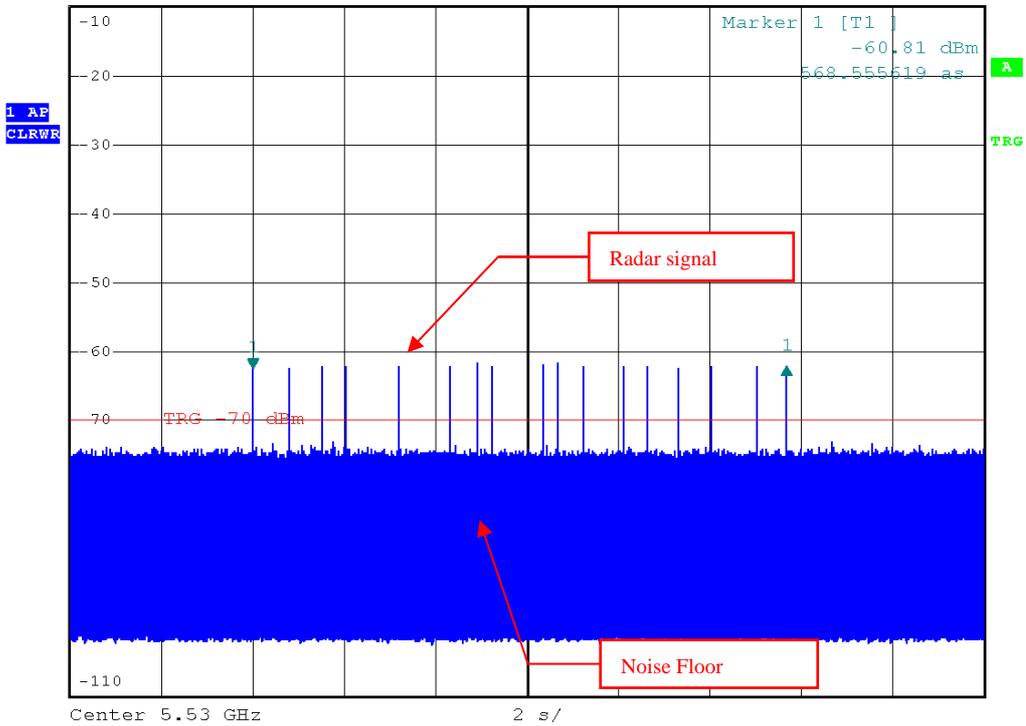
### Radar Signal 4



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Delta 1 [T1 ]  
VBW 10 MHz      0.31 dB  
SWT 20 s      11.680000 s



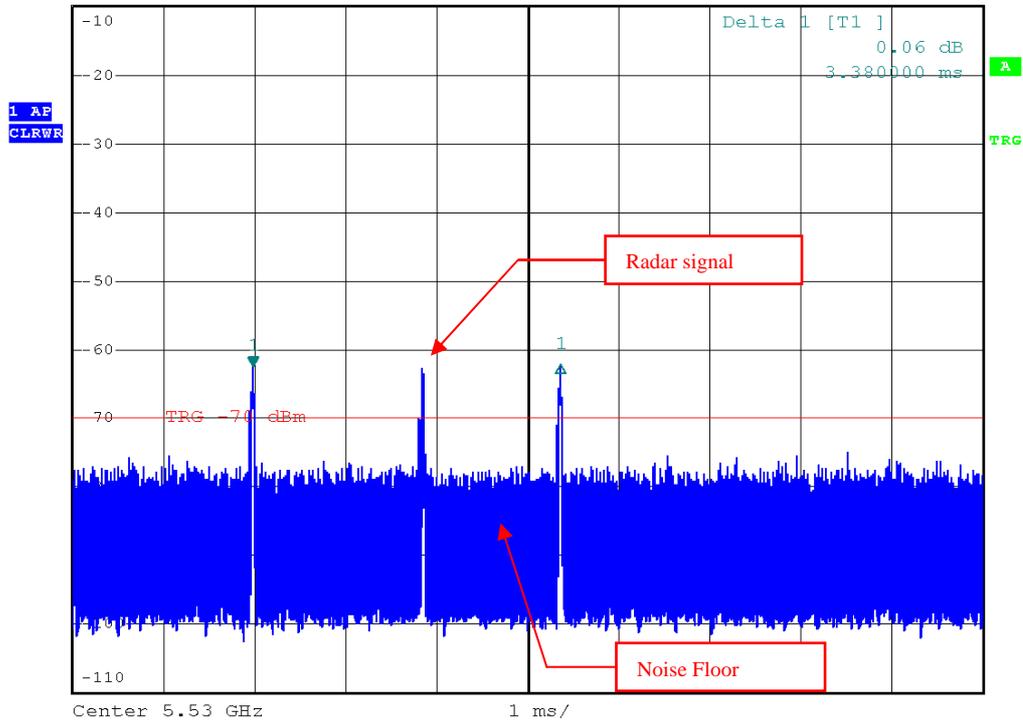
### Radar Signal 5



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Marker 1 [T1 ]  
VBW 10 MHz      -60.85 dBm  
SWT 10 ms      -20.000000 µs



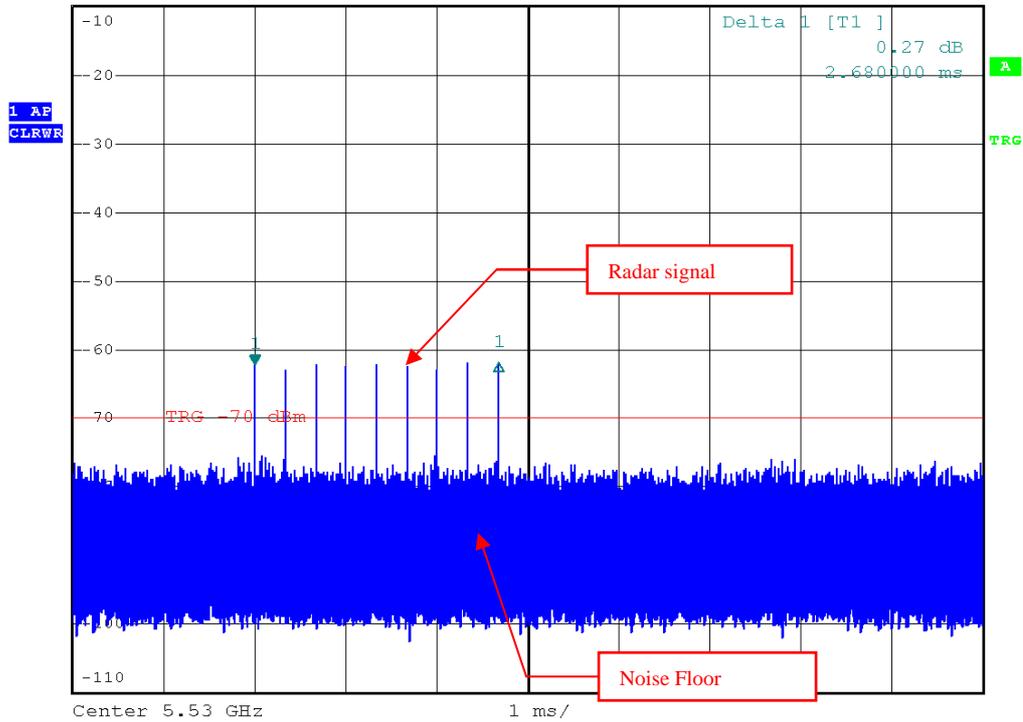
Single Burst of Radar Signal 5



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Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Marker 1 [T1 ]  
VBW 10 MHz      -60.86 dBm  
SWT 10 ms      1.136718 ms



Radar Signal 6



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### 6.2.1.2 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

802.11ac (VHT20)

#### Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)   | PRI (μsec)   | Number of Pulses | Number of Trials(Time s) | Percentage of Successful Detection (%) |
|-----------------------------|--|--|------------------|--------------------------|--|
| 1                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \begin{array}{l} \frac{1}{360} \\ \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \end{array} \right\}$ | 18               | 30                       | 83.3%                                  |
| 2                           | 1-5  | 150-230  | 23-29            | 30                       | 86.7%                                  |
| 3                           | 6-10   | 200-500  | 16-18            | 30                       | 76.7%                                  |
| 4                           | 11-20  | 200-500  | 12-16            | 30                       | 76.7%                                  |
| Aggregate (Radar Types 1-4) |  |  |                  | 120                      | 80.83%                                 |

#### 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                                   |



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### 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                                   |



802.11ac (VHT40)

Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)   | PRI (μsec)   | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--|--|------------------|-------------------------|--|
| 1                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \begin{array}{l} \left( \frac{1}{360} \right) \\ \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$ | 18               | 30                      | 86.7%                                  |
| 2                           | 1-5  | 150-230  | 23-29            | 30                      | 90.0%                                  |
| 3                           | 6-10   | 200-500  | 16-18            | 30                      | 80.0%                                  |
| 4                           | 11-20  | 200-500  | 12-16            | 30                      | 70.0%                                  |
| Aggregate (Radar Types 1-4) |  |  |                  | 120                     | 81.67%                                 |

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                                   |



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### Frequency Hopping Radar Test Waveform

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



802.11ac (VHT80)

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: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>-----<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A | $\text{Roundup} \left\{ \begin{array}{l} \frac{1}{360} \\ \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \end{array} \right\}$ | 18               | 30                      | 90.0%                                  |
| 2                           | 1-5   | 150-230  | 23-29            | 30                      | 86.7%                                  |
| 3                           | 6-10  | 200-500  | 16-18            | 30                      | 83.3%                                  |
| 4                           | 11-20   | 200-500  | 12-16            | 30                      | 80.0%                                  |
| Aggregate (Radar Types 1-4) |   |  |                  | 120                     | 85                                     |

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                                   |



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### Frequency Hopping Radar Test Waveform

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

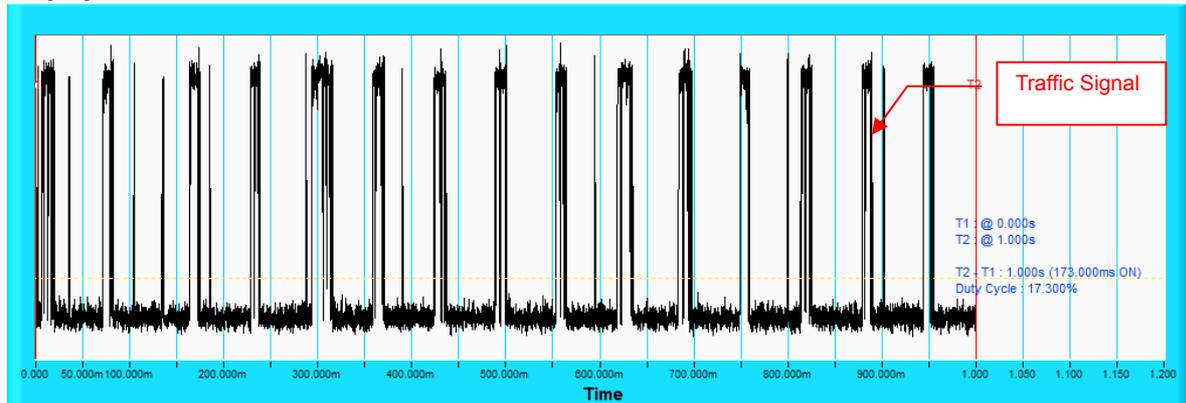


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## Wireless Traffic Loading

### 802.11ac (VHT20)

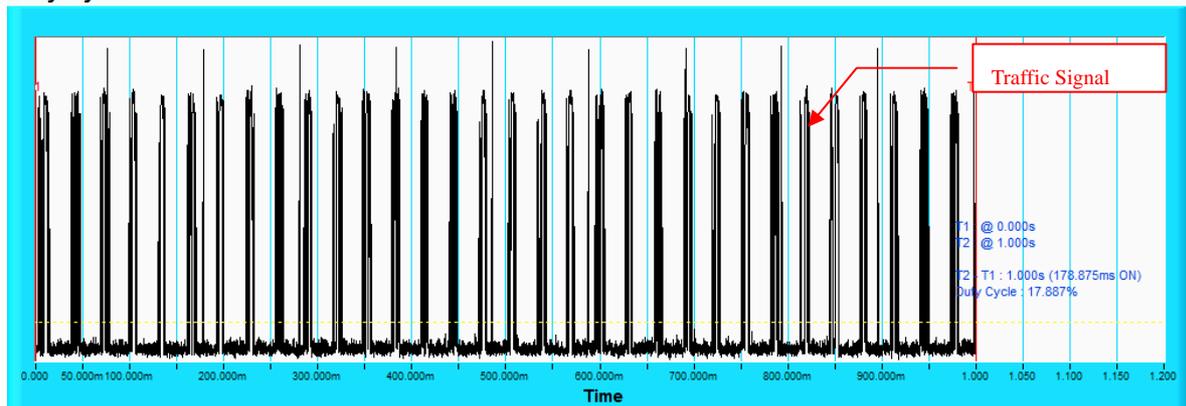
#### Duty Cycle



**NOTE:** T1 denotes the start of duty cycle period is 0<sup>th</sup> second. T2 denotes the end of duty cycle period is 1<sup>th</sup> second. T2 – T1= 1 seconds. Duty Cycle = 17.3%

### 802.11ac (VHT40)

#### Duty Cycle



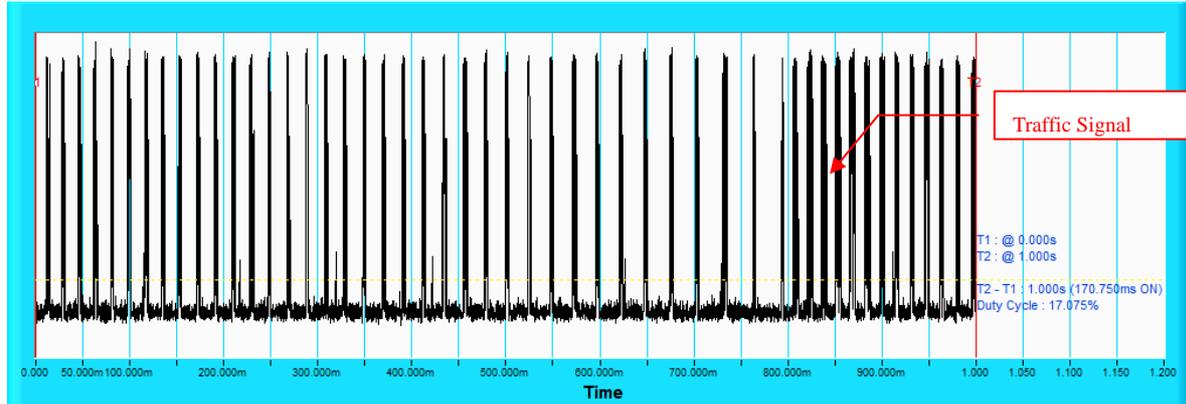
**NOTE:** T1 denotes the start of duty cycle period is 0<sup>th</sup> second. T2 denotes the end of duty cycle period is 1<sup>th</sup> second. T2 – T1= 1 seconds. Duty Cycle = 17.887%



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## 802.11ac (VHT80)

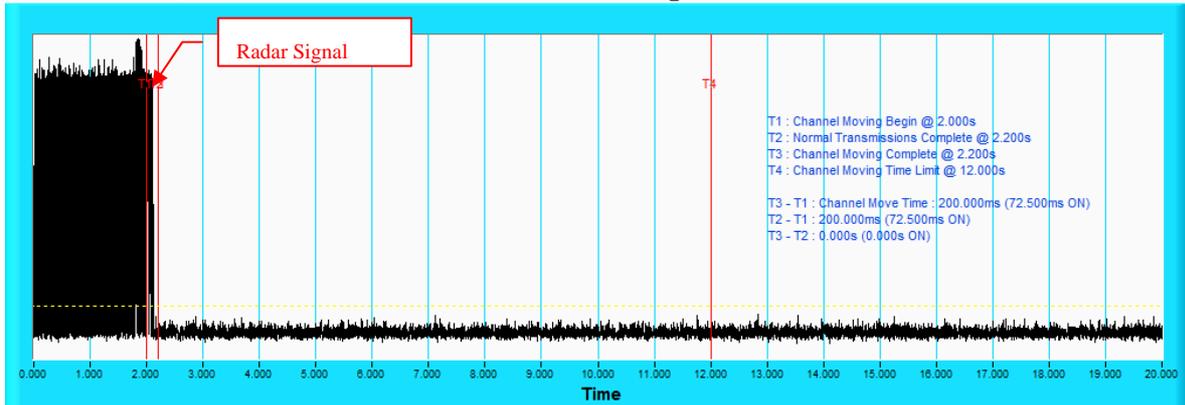
### Duty Cycle



**NOTE:** T1 denotes the start of duty cycle period is 0<sup>th</sup> second. T2 denotes the end of duty cycle period is 1<sup>th</sup> second.  $T2 - T1 = 1$  seconds. Duty Cycle = 17.075%

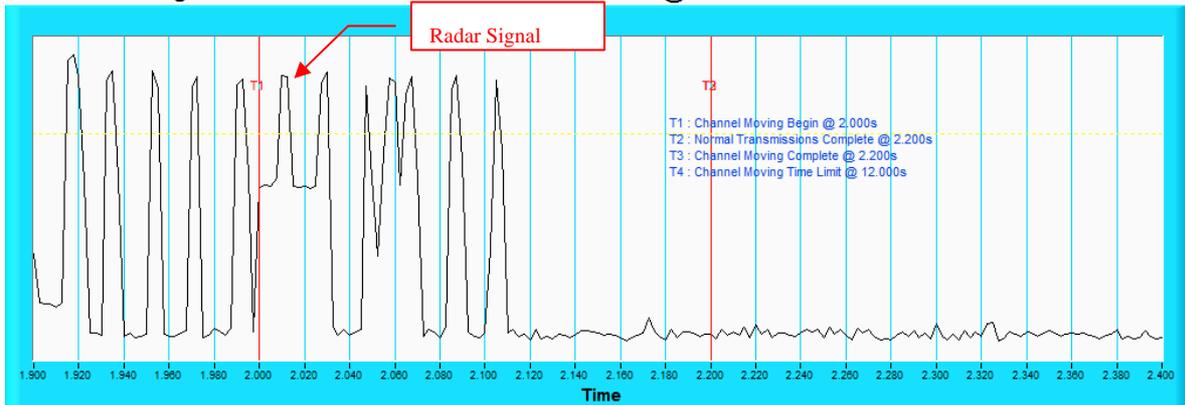
**Radar signal 0**

**Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz**



**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.

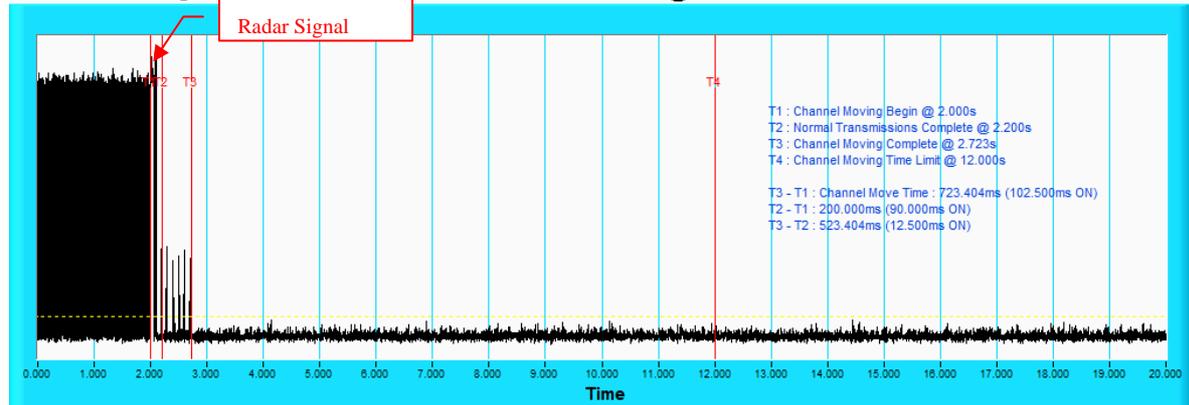
**Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz**



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

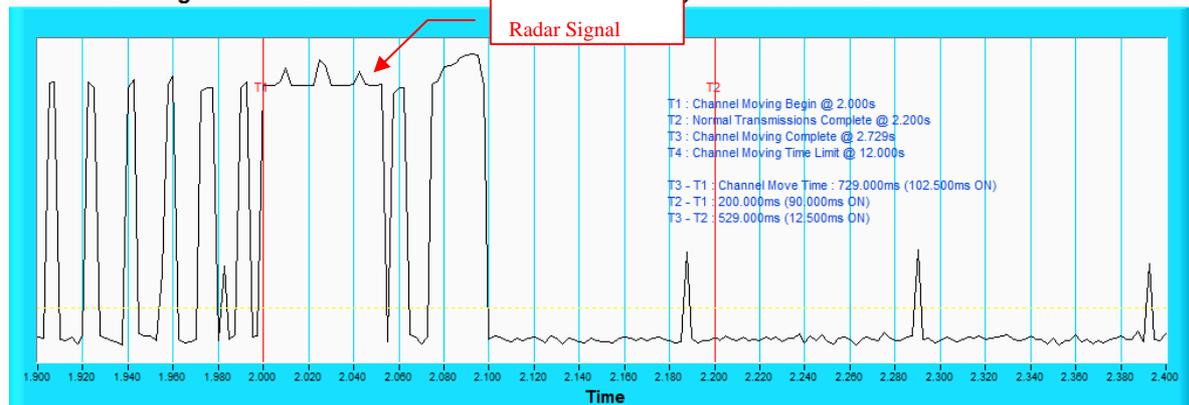
### Radar signal 1

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**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.

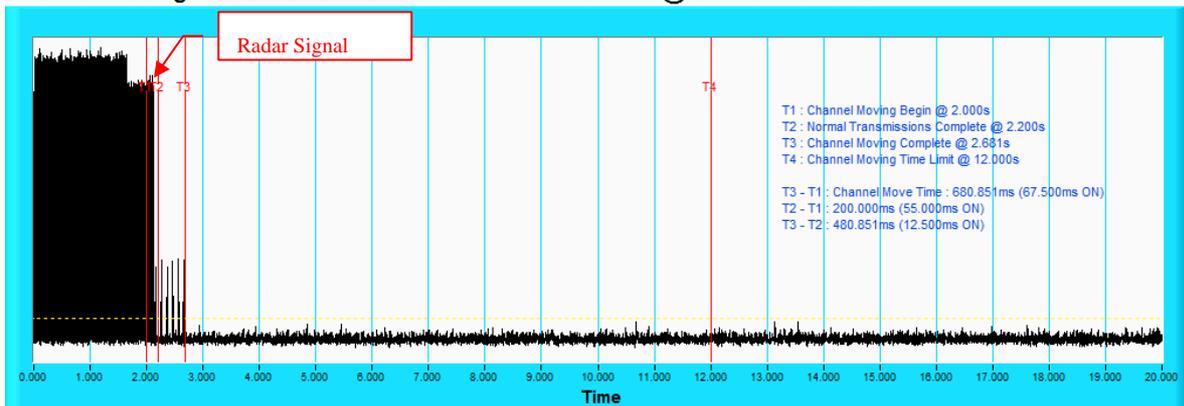
Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

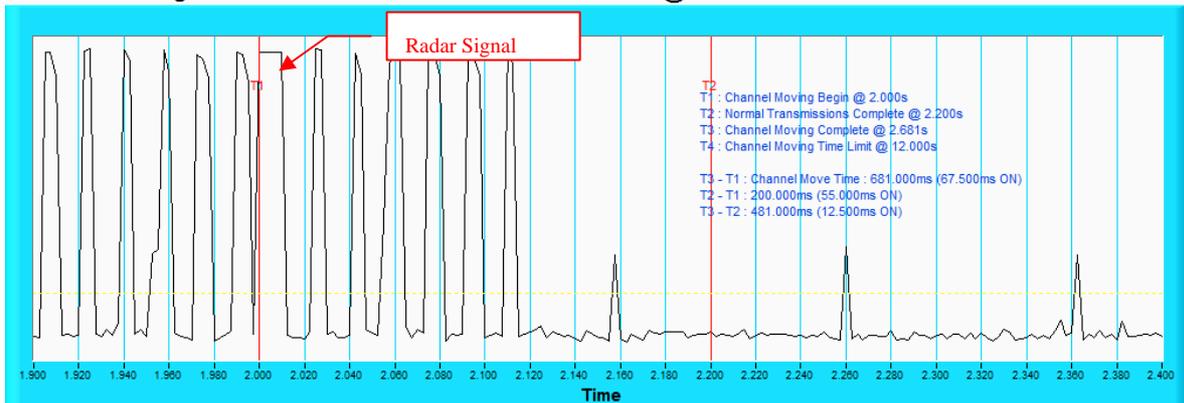
## Radar signal 2

### Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**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.

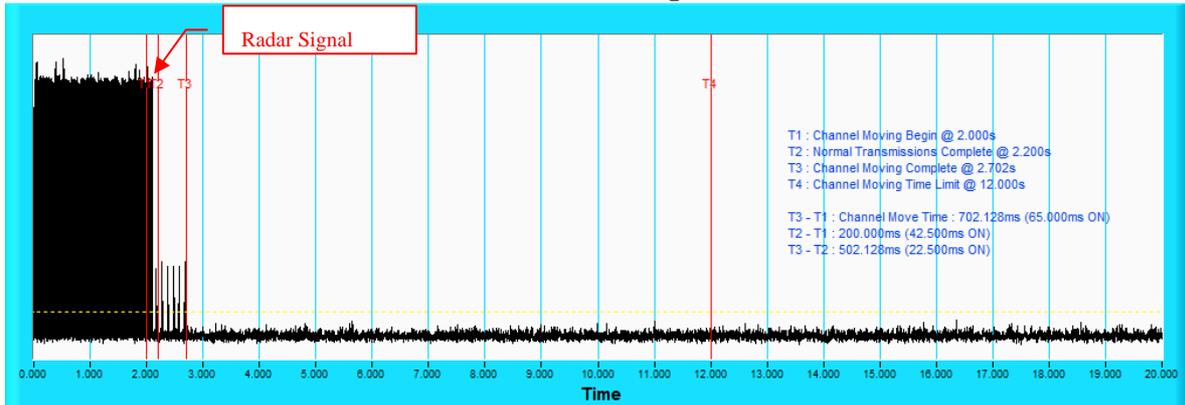
### Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

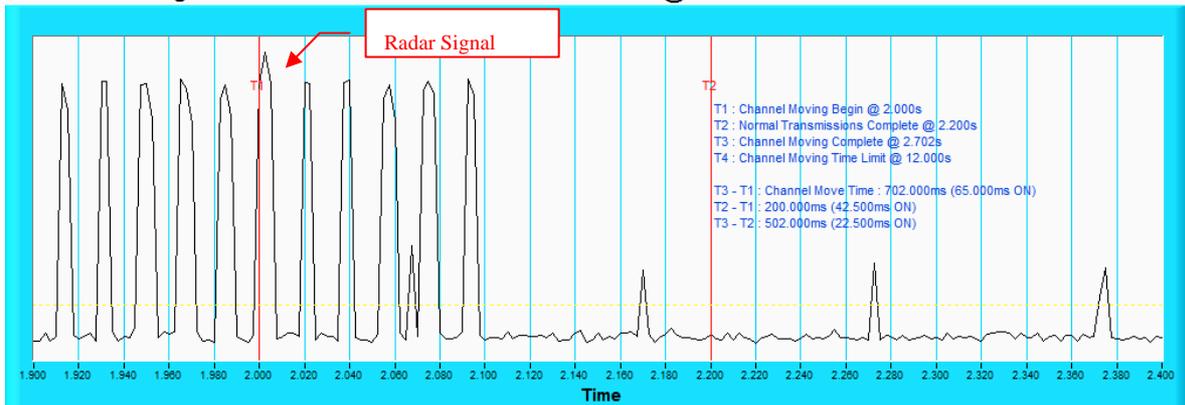
### Radar signal 3

**Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz**



**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.

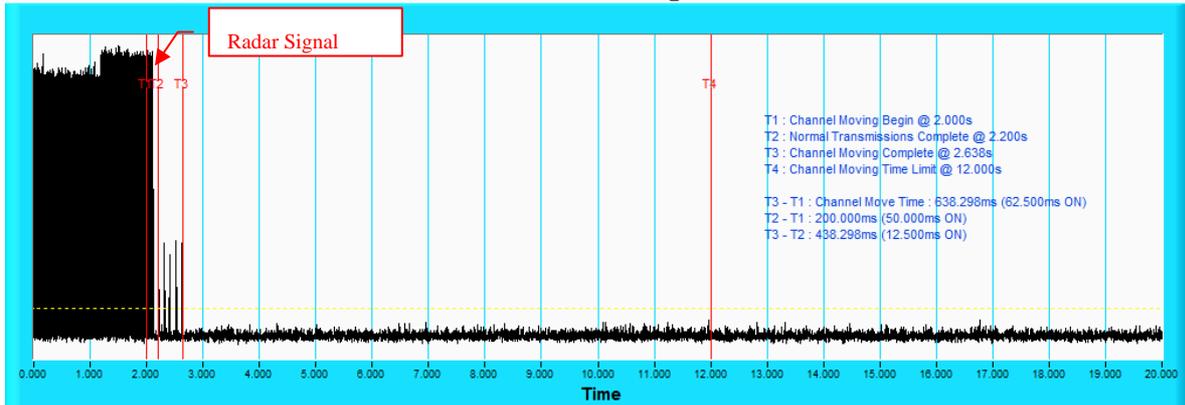
**Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz**



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

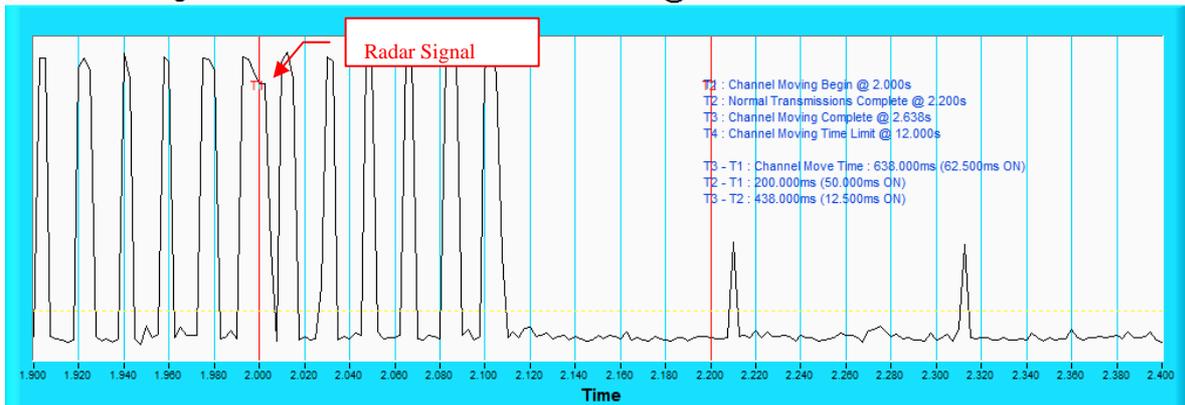
### Radar signal 4

#### Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**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 @ CH106-5530MHz



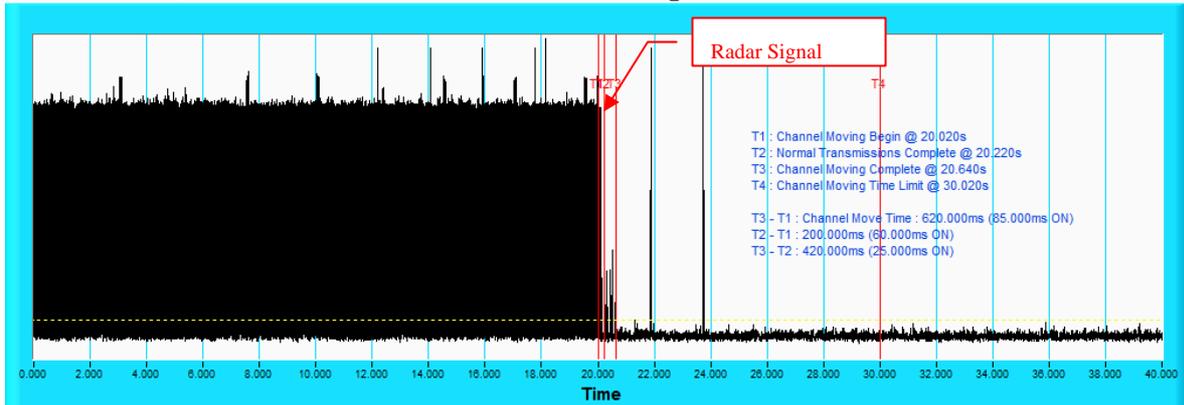
**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.



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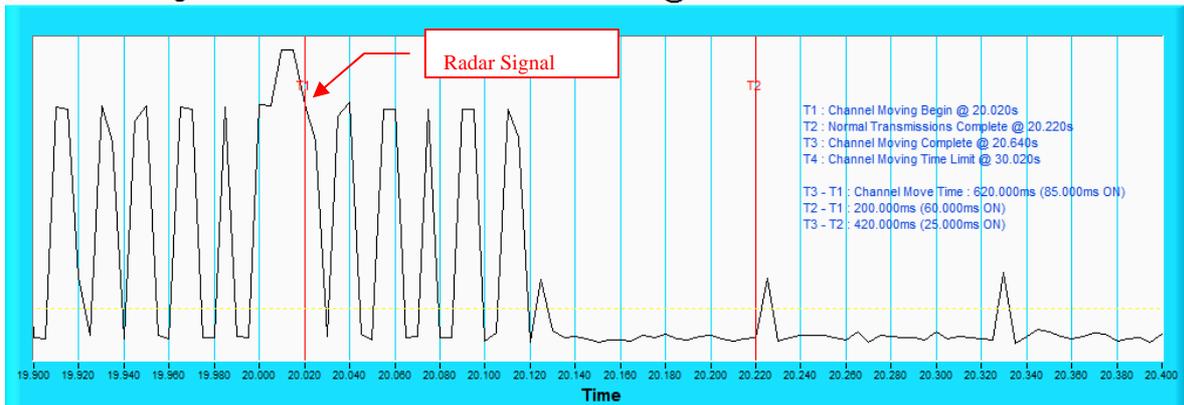
## Radar signal 5

### Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**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.

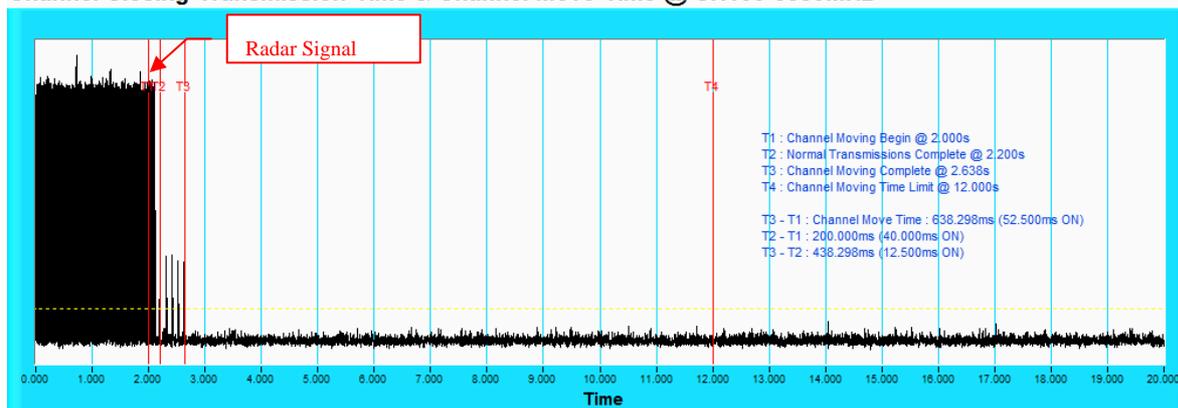
### Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.

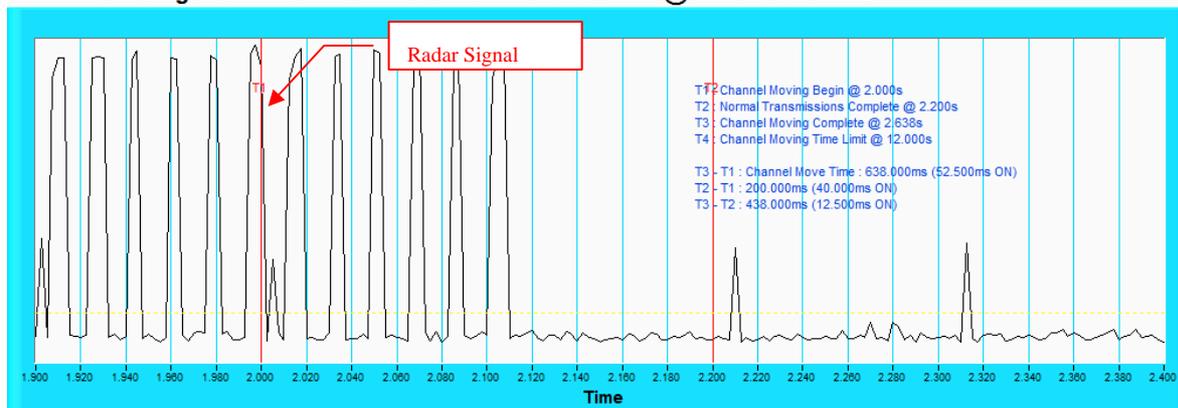
## Radar signal 6

### Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



**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 @ CH106-5530MHz



**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.



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802.11ac (VHT20)

| Type 1 Radar Statistical Performances |                             |   |  |                  |  |           |
|---------------------------------------|-----------------------------|---|--|------------------|--|-----------|
| Trial #                               | Test Center Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
| 1                                     | 5500                        | 22  | 1066   | 57               | 938                                      | Yes       |
| 2                                     | 5497                        | 21  | 1089   | 58               | 918                                      | Yes       |
| 3                                     | 5491                        | 2   | 1859   | 99               | 538                                      | Yes       |
| 4                                     | 5496                        | 8   | 1520   | 81               | 658                                      | Yes       |
| 5                                     | 5506                        | 15  | 1253   | 67               | 798                                      | Yes       |
| 6                                     | 5504                        | 10  | 1433   | 76               | 698                                      | Yes       |
| 7                                     | 5494                        | 12  | 1355   | 72               | 738                                      | Yes       |
| 8                                     | 5504                        | 9   | 1475   | 78               | 678                                      | Yes       |
| 9                                     | 5494                        | 7   | 1567   | 83               | 638                                      | Yes       |
| 10                                    | 5495                        | 14  | 1285   | 68               | 778                                      | Yes       |
| 11                                    | 5499                        | 17  | 1193   | 63               | 838                                      | Yes       |
| 12                                    | 5502                        | 11  | 1393   | 74               | 718                                      | No        |
| 13                                    | 5493                        | 18  | 1166   | 62               | 858                                      | Yes       |
| 14                                    | 5507                        | 23  | 326.2  | 18               | 3066                                     | No        |
| 15                                    | 5506                        | 6   | 1618   | 86               | 618                                      | Yes       |
| 16                                    | 5493                        |   | 436.5  | 24               | 2291                                     | Yes       |
| 17                                    | 5492                        |   | 554.9  | 30               | 1802                                     | No        |
| 18                                    | 5492                        |   | 625  | 33               | 1600                                     | No        |
| 19                                    | 5493                        |   | 464.3  | 25               | 2154                                     | Yes       |
| 20                                    | 5506                        |   | 660.5  | 35               | 1514                                     | Yes       |
| 21                                    | 5503                        |   | 616.5  | 33               | 1622                                     | No        |
| 22                                    | 5495                        |   | 422.7  | 23               | 2366                                     | Yes       |
| 23                                    | 5505                        |   | 562.1  | 30               | 1779                                     | Yes       |
| 24                                    | 5505                        |   | 389.6  | 21               | 2567                                     | Yes       |
| 25                                    | 5508                        |   | 373  | 20               | 2681                                     | Yes       |
| 26                                    | 5498                        |   | 492.6  | 26               | 2030                                     | Yes       |
| 27                                    | 5492                        |   | 598.1  | 32               | 1672                                     | Yes       |
| 28                                    | 5508                        |   | 944.3  | 50               | 1059                                     | Yes       |
| 29                                    | 5502                        |   | 622.3  | 33               | 1607                                     | Yes       |
| 30                                    | 5494                        |   | 434.4  | 23               | 2302                                     | Yes       |

Detection Rate: 83.3 %



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**802.11ac (VHT20)**

Type 2 Radar Statistical Performances

| Trial # | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                       | 25               | 2.7             | 190     | Yes       |
| 2       | 5504                       | 26               | 2.8             | 175     | Yes       |
| 3       | 5498                       | 23               | 1.2             | 186     | Yes       |
| 4       | 5496                       | 26               | 2.9             | 165     | Yes       |
| 5       | 5508                       | 24               | 2.1             | 159     | Yes       |
| 6       | 5497                       | 25               | 2.7             | 152     | No        |
| 7       | 5499                       | 29               | 4.8             | 184     | Yes       |
| 8       | 5491                       | 29               | 4.9             | 198     | Yes       |
| 9       | 5497                       | 23               | 1.3             | 205     | Yes       |
| 10      | 5508                       | 27               | 3.4             | 221     | Yes       |
| 11      | 5492                       | 29               | 4.7             | 204     | No        |
| 12      | 5503                       | 26               | 3               | 187     | Yes       |
| 13      | 5495                       | 28               | 4.3             | 153     | Yes       |
| 14      | 5499                       | 24               | 1.6             | 174     | Yes       |
| 15      | 5496                       | 24               | 2.1             | 179     | Yes       |
| 16      | 5504                       | 27               | 3.6             | 229     | Yes       |
| 17      | 5505                       | 27               | 3.6             | 213     | Yes       |
| 18      | 5500                       | 27               | 3.3             | 162     | Yes       |
| 19      | 5494                       | 29               | 4.7             | 206     | Yes       |
| 20      | 5509                       | 28               | 4.2             | 210     | Yes       |
| 21      | 5494                       | 23               | 1               | 170     | Yes       |
| 22      | 5508                       | 23               | 1.2             | 218     | Yes       |
| 23      | 5500                       | 26               | 3.1             | 169     | No        |
| 24      | 5501                       | 24               | 1.7             | 227     | Yes       |
| 25      | 5498                       | 27               | 3.3             | 154     | No        |
| 26      | 5505                       | 25               | 2.2             | 196     | Yes       |
| 27      | 5493                       | 27               | 3.7             | 197     | Yes       |
| 28      | 5497                       | 24               | 2               | 217     | Yes       |
| 29      | 5501                       | 23               | 1.1             | 202     | Yes       |
| 30      | 5501                       | 25               | 2.3             | 215     | Yes       |

Detection Rate: 86.7 %



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### 802.11ac (VHT20)

#### Type 3 Radar Statistical Performances

| Trial # | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                       | 17               | 7.7             | 264     | No        |
| 2       | 5499                       | 17               | 7.8             | 370     | Yes       |
| 3       | 5493                       | 16               | 6.2             | 280     | No        |
| 4       | 5502                       | 17               | 7.9             | 350     | No        |
| 5       | 5501                       | 16               | 7.1             | 322     | No        |
| 6       | 5497                       | 17               | 7.7             | 400     | Yes       |
| 7       | 5498                       | 18               | 9.8             | 461     | No        |
| 8       | 5497                       | 18               | 9.9             | 313     | Yes       |
| 9       | 5495                       | 16               | 6.3             | 456     | Yes       |
| 10      | 5493                       | 17               | 8.4             | 398     | No        |
| 11      | 5506                       | 18               | 9.7             | 474     | Yes       |
| 12      | 5503                       | 17               | 8               | 466     | Yes       |
| 13      | 5500                       | 18               | 9.3             | 401     | Yes       |
| 14      | 5501                       | 16               | 6.6             | 259     | Yes       |
| 15      | 5503                       | 16               | 7.1             | 451     | Yes       |
| 16      | 5500                       | 17               | 8.6             | 292     | Yes       |
| 17      | 5498                       | 17               | 8.6             | 490     | Yes       |
| 18      | 5505                       | 17               | 8.3             | 462     | Yes       |
| 19      | 5507                       | 18               | 9.7             | 497     | Yes       |
| 20      | 5497                       | 18               | 9.2             | 229     | Yes       |
| 21      | 5493                       | 16               | 6               | 325     | Yes       |
| 22      | 5504                       | 16               | 6.2             | 467     | Yes       |
| 23      | 5501                       | 17               | 8.1             | 282     | Yes       |
| 24      | 5491                       | 16               | 6.7             | 258     | Yes       |
| 25      | 5497                       | 17               | 8.3             | 209     | Yes       |
| 26      | 5501                       | 16               | 7.2             | 231     | No        |
| 27      | 5496                       | 18               | 8.7             | 480     | Yes       |
| 28      | 5495                       | 16               | 7               | 343     | Yes       |
| 29      | 5502                       | 16               | 6.1             | 321     | Yes       |
| 30      | 5497                       | 16               | 7.3             | 254     | Yes       |

Detection Rate: 76.7 %



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802.11ac (VHT20)

Type 4 Radar Statistical Performances

| Trial # | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                       | 14               | 14.8            | 264     | Yes       |
| 2       | 5495                       | 14               | 15.1            | 370     | Yes       |
| 3       | 5495                       | 12               | 11.5            | 280     | Yes       |
| 4       | 5495                       | 14               | 15.3            | 350     | No        |
| 5       | 5506                       | 13               | 13.4            | 322     | Yes       |
| 6       | 5504                       | 14               | 14.8            | 400     | Yes       |
| 7       | 5502                       | 16               | 19.5            | 461     | No        |
| 8       | 5506                       | 16               | 19.7            | 313     | Yes       |
| 9       | 5498                       | 12               | 11.8            | 456     | Yes       |
| 10      | 5507                       | 14               | 16.3            | 398     | No        |
| 11      | 5501                       | 16               | 19.3            | 474     | Yes       |
| 12      | 5496                       | 14               | 15.4            | 466     | Yes       |
| 13      | 5497                       | 16               | 18.4            | 401     | Yes       |
| 14      | 5492                       | 12               | 12.3            | 259     | Yes       |
| 15      | 5505                       | 13               | 13.5            | 451     | Yes       |
| 16      | 5508                       | 15               | 16.9            | 292     | Yes       |
| 17      | 5499                       | 15               | 16.8            | 490     | Yes       |
| 18      | 5496                       | 14               | 16.2            | 462     | Yes       |
| 19      | 5501                       | 16               | 19.3            | 497     | No        |
| 20      | 5499                       | 15               | 18.2            | 229     | Yes       |
| 21      | 5498                       | 12               | 11.1            | 325     | No        |
| 22      | 5504                       | 12               | 11.5            | 467     | Yes       |
| 23      | 5493                       | 14               | 15.6            | 282     | No        |
| 24      | 5502                       | 12               | 12.6            | 258     | Yes       |
| 25      | 5508                       | 14               | 16.2            | 209     | Yes       |
| 26      | 5495                       | 13               | 13.8            | 231     | Yes       |
| 27      | 5505                       | 15               | 17.1            | 480     | Yes       |
| 28      | 5506                       | 13               | 13.4            | 343     | No        |
| 29      | 5506                       | 12               | 11.2            | 321     | Yes       |
| 30      | 5501                       | 13               | 13.9            | 254     | Yes       |

Detection Rate: 76.7 %



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### 802.11ac (VHT20)

| Type 5 Radar Statistical Performances |                             |                  |           |
|---------------------------------------|-----------------------------|------------------|-----------|
| Trial #                               | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
| 1                                     | 5500                        | LP_Signal_01     | Yes       |
| 2                                     | 5502                        | LP_Signal_02     | Yes       |
| 3                                     | 5497                        | LP_Signal_03     | Yes       |
| 4                                     | 5496                        | LP_Signal_04     | Yes       |
| 5                                     | 5503                        | LP_Signal_05     | No        |
| 6                                     | 5504                        | LP_Signal_06     | Yes       |
| 7                                     | 5503                        | LP_Signal_07     | Yes       |
| 8                                     | 5502                        | LP_Signal_08     | Yes       |
| 9                                     | 5495                        | LP_Signal_09     | Yes       |
| 10                                    | 5501                        | LP_Signal_10     | Yes       |
| 11                                    | 5504                        | LP_Signal_11     | Yes       |
| 12                                    | 5506                        | LP_Signal_12     | No        |
| 13                                    | 5497                        | LP_Signal_13     | No        |
| 14                                    | 5503                        | LP_Signal_14     | Yes       |
| 15                                    | 5494                        | LP_Signal_15     | Yes       |
| 16                                    | 5496                        | LP_Signal_16     | Yes       |
| 17                                    | 5498                        | LP_Signal_17     | Yes       |
| 18                                    | 5494                        | LP_Signal_18     | Yes       |
| 19                                    | 5499                        | LP_Signal_19     | Yes       |
| 20                                    | 5504                        | LP_Signal_20     | No        |
| 21                                    | 5499                        | LP_Signal_21     | Yes       |
| 22                                    | 5494                        | LP_Signal_22     | Yes       |
| 23                                    | 5506                        | LP_Signal_23     | Yes       |
| 24                                    | 5507                        | LP_Signal_24     | Yes       |
| 25                                    | 5496                        | LP_Signal_25     | Yes       |
| 26                                    | 5496                        | LP_Signal_26     | Yes       |
| 27                                    | 5500                        | LP_Signal_27     | Yes       |
| 28                                    | 5502                        | LP_Signal_28     | Yes       |
| 29                                    | 5493                        | LP_Signal_29     | No        |
| 30                                    | 5496                        | LP_Signal_30     | Yes       |

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

**802.11ac (VHT20)**

**Type 6 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | No        |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | No        |

Detection Rate: 93.3 %



A D T

### 802.11ac (VHT20)

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

Detection Rate: 93.3%

The Frequency Hopping Radar pattern shown in Annex B.2



A D T

### 802.11ac (VHT40)

#### Type 1 Radar Statistical Performances

| Trial # | Test Center Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|-----------------------------|---|--|------------------|--|-----------|
| 1       | 5510                        | 22  | 1066   | 57               | 938                                      | Yes       |
| 2       | 5520                        | 21  | 1089   | 58               | 918                                      | No        |
| 3       | 5500                        | 2   | 1859   | 99               | 538                                      | Yes       |
| 4       | 5497                        | 8   | 1520   | 81               | 658                                      | Yes       |
| 5       | 5501                        | 15  | 1253   | 67               | 798                                      | Yes       |
| 6       | 5518                        | 10  | 1433   | 76               | 698                                      | Yes       |
| 7       | 5521                        | 12  | 1355   | 72               | 738                                      | Yes       |
| 8       | 5513                        | 9   | 1475   | 78               | 678                                      | Yes       |
| 9       | 5493                        | 7   | 1567   | 83               | 638                                      | Yes       |
| 10      | 5527                        | 14  | 1285   | 68               | 778                                      | Yes       |
| 11      | 5509                        | 17  | 1193   | 63               | 838                                      | Yes       |
| 12      | 5501                        | 11  | 1393   | 74               | 718                                      | Yes       |
| 13      | 5507                        | 18  | 1166   | 62               | 858                                      | Yes       |
| 14      | 5526                        | 23  | 326.2  | 18               | 3066                                     | Yes       |
| 15      | 5511                        | 6   | 1618   | 86               | 618                                      | Yes       |
| 16      | 5517                        |   | 436.5  | 24               | 2291                                     | Yes       |
| 17      | 5521                        |   | 554.9  | 30               | 1802                                     | Yes       |
| 18      | 5498                        |   | 625  | 33               | 1600                                     | No        |
| 19      | 5495                        |   | 464.3  | 25               | 2154                                     | Yes       |
| 20      | 5519                        |   | 660.5  | 35               | 1514                                     | Yes       |
| 21      | 5492                        |   | 616.5  | 33               | 1622                                     | No        |
| 22      | 5508                        |   | 422.7  | 23               | 2366                                     | Yes       |
| 23      | 5523                        |   | 562.1  | 30               | 1779                                     | Yes       |
| 24      | 5527                        |   | 389.6  | 21               | 2567                                     | Yes       |
| 25      | 5523                        |   | 373  | 20               | 2681                                     | Yes       |
| 26      | 5520                        |   | 492.6  | 26               | 2030                                     | Yes       |
| 27      | 5524                        |   | 598.1  | 32               | 1672                                     | No        |
| 28      | 5502                        |   | 944.3  | 50               | 1059                                     | Yes       |
| 29      | 5501                        |   | 622.3  | 33               | 1607                                     | Yes       |
| 30      | 5492                        |   | 434.4  | 23               | 2302                                     | Yes       |

Detection Rate: 86.7 %



A D T

**802.11ac (VHT40)**

Type 2 Radar Statistical Performances

| Trial # | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                       | 25               | 2.7             | 190     | Yes       |
| 2       | 5520                       | 26               | 2.8             | 175     | No        |
| 3       | 5500                       | 23               | 1.2             | 186     | Yes       |
| 4       | 5500                       | 26               | 2.9             | 165     | Yes       |
| 5       | 5523                       | 24               | 2.1             | 159     | Yes       |
| 6       | 5517                       | 25               | 2.7             | 152     | Yes       |
| 7       | 5496                       | 29               | 4.8             | 184     | Yes       |
| 8       | 5506                       | 29               | 4.9             | 198     | No        |
| 9       | 5496                       | 23               | 1.3             | 205     | Yes       |
| 10      | 5522                       | 27               | 3.4             | 221     | Yes       |
| 11      | 5501                       | 29               | 4.7             | 204     | Yes       |
| 12      | 5519                       | 26               | 3               | 187     | Yes       |
| 13      | 5494                       | 28               | 4.3             | 153     | No        |
| 14      | 5516                       | 24               | 1.6             | 174     | Yes       |
| 15      | 5493                       | 24               | 2.1             | 179     | Yes       |
| 16      | 5525                       | 27               | 3.6             | 229     | Yes       |
| 17      | 5506                       | 27               | 3.6             | 213     | Yes       |
| 18      | 5498                       | 27               | 3.3             | 162     | Yes       |
| 19      | 5527                       | 29               | 4.7             | 206     | Yes       |
| 20      | 5514                       | 28               | 4.2             | 210     | Yes       |
| 21      | 5518                       | 23               | 1               | 170     | Yes       |
| 22      | 5501                       | 23               | 1.2             | 218     | Yes       |
| 23      | 5527                       | 26               | 3.1             | 169     | Yes       |
| 24      | 5506                       | 24               | 1.7             | 227     | Yes       |
| 25      | 5523                       | 27               | 3.3             | 154     | Yes       |
| 26      | 5501                       | 25               | 2.2             | 196     | Yes       |
| 27      | 5499                       | 27               | 3.7             | 197     | Yes       |
| 28      | 5498                       | 24               | 2               | 217     | Yes       |
| 29      | 5496                       | 23               | 1.1             | 202     | Yes       |
| 30      | 5496                       | 25               | 2.3             | 215     | Yes       |

Detection Rate: 90.0 %



A D T

### 802.11ac (VHT40)

#### Type 3 Radar Statistical Performances

| Trial # | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                       | 17               | 7.7             | 264     | Yes       |
| 2       | 5520                       | 17               | 7.8             | 370     | Yes       |
| 3       | 5500                       | 16               | 6.2             | 280     | No        |
| 4       | 5494                       | 17               | 7.9             | 350     | No        |
| 5       | 5506                       | 16               | 7.1             | 322     | Yes       |
| 6       | 5513                       | 17               | 7.7             | 400     | No        |
| 7       | 5512                       | 18               | 9.8             | 461     | Yes       |
| 8       | 5494                       | 18               | 9.9             | 313     | No        |
| 9       | 5502                       | 16               | 6.3             | 456     | Yes       |
| 10      | 5500                       | 17               | 8.4             | 398     | Yes       |
| 11      | 5514                       | 18               | 9.7             | 474     | Yes       |
| 12      | 5497                       | 17               | 8               | 466     | Yes       |
| 13      | 5519                       | 18               | 9.3             | 401     | Yes       |
| 14      | 5504                       | 16               | 6.6             | 259     | Yes       |
| 15      | 5514                       | 16               | 7.1             | 451     | Yes       |
| 16      | 5525                       | 17               | 8.6             | 292     | Yes       |
| 17      | 5528                       | 17               | 8.6             | 490     | Yes       |
| 18      | 5500                       | 17               | 8.3             | 462     | Yes       |
| 19      | 5495                       | 18               | 9.7             | 497     | Yes       |
| 20      | 5517                       | 18               | 9.2             | 229     | Yes       |
| 21      | 5500                       | 16               | 6               | 325     | Yes       |
| 22      | 5501                       | 16               | 6.2             | 467     | No        |
| 23      | 5507                       | 17               | 8.1             | 282     | Yes       |
| 24      | 5525                       | 16               | 6.7             | 258     | Yes       |
| 25      | 5495                       | 17               | 8.3             | 209     | No        |
| 26      | 5511                       | 16               | 7.2             | 231     | Yes       |
| 27      | 5504                       | 18               | 8.7             | 480     | Yes       |
| 28      | 5499                       | 16               | 7               | 343     | Yes       |
| 29      | 5498                       | 16               | 6.1             | 321     | Yes       |
| 30      | 5499                       | 16               | 7.3             | 254     | Yes       |

Detection Rate: 80.0 %



A D T

### 802.11ac (VHT40)

| Type 4 Radar Statistical Performances |                            |                  |                 |         |           |
|---------------------------------------|----------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
| 1                                     | 5510                       | 14               | 14.8            | 264     | No        |
| 2                                     | 5520                       | 14               | 15.1            | 370     | Yes       |
| 3                                     | 5500                       | 12               | 11.5            | 280     | Yes       |
| 4                                     | 5496                       | 14               | 15.3            | 350     | Yes       |
| 5                                     | 5528                       | 13               | 13.4            | 322     | No        |
| 6                                     | 5500                       | 14               | 14.8            | 400     | Yes       |
| 7                                     | 5513                       | 16               | 19.5            | 461     | Yes       |
| 8                                     | 5517                       | 16               | 19.7            | 313     | Yes       |
| 9                                     | 5493                       | 12               | 11.8            | 456     | Yes       |
| 10                                    | 5494                       | 14               | 16.3            | 398     | Yes       |
| 11                                    | 5514                       | 16               | 19.3            | 474     | Yes       |
| 12                                    | 5524                       | 14               | 15.4            | 466     | No        |
| 13                                    | 5528                       | 16               | 18.4            | 401     | Yes       |
| 14                                    | 5513                       | 12               | 12.3            | 259     | No        |
| 15                                    | 5515                       | 13               | 13.5            | 451     | Yes       |
| 16                                    | 5499                       | 15               | 16.9            | 292     | No        |
| 17                                    | 5523                       | 15               | 16.8            | 490     | Yes       |
| 18                                    | 5498                       | 14               | 16.2            | 462     | Yes       |
| 19                                    | 5509                       | 16               | 19.3            | 497     | Yes       |
| 20                                    | 5514                       | 15               | 18.2            | 229     | No        |
| 21                                    | 5502                       | 12               | 11.1            | 325     | Yes       |
| 22                                    | 5504                       | 12               | 11.5            | 467     | No        |
| 23                                    | 5518                       | 14               | 15.6            | 282     | Yes       |
| 24                                    | 5519                       | 12               | 12.6            | 258     | No        |
| 25                                    | 5518                       | 14               | 16.2            | 209     | Yes       |
| 26                                    | 5526                       | 13               | 13.8            | 231     | Yes       |
| 27                                    | 5521                       | 15               | 17.1            | 480     | Yes       |
| 28                                    | 5504                       | 13               | 13.4            | 343     | No        |
| 29                                    | 5507                       | 12               | 11.2            | 321     | Yes       |
| 30                                    | 5526                       | 13               | 13.9            | 254     | Yes       |

Detection Rate: 70.0 %



A D T

### 802.11ac (VHT40)

#### Type 5 Radar Statistical Performances

| Trial # | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|-----------------------------|------------------|-----------|
| 1       | 5510                        | LP_Signal_01     | Yes       |
| 2       | 5520                        | LP_Signal_02     | Yes       |
| 3       | 5500                        | LP_Signal_03     | No        |
| 4       | 5496                        | LP_Signal_04     | Yes       |
| 5       | 5506                        | LP_Signal_05     | Yes       |
| 6       | 5506                        | LP_Signal_06     | Yes       |
| 7       | 5519                        | LP_Signal_07     | Yes       |
| 8       | 5510                        | LP_Signal_08     | Yes       |
| 9       | 5504                        | LP_Signal_09     | Yes       |
| 10      | 5504                        | LP_Signal_10     | Yes       |
| 11      | 5513                        | LP_Signal_11     | Yes       |
| 12      | 5506                        | LP_Signal_12     | Yes       |
| 13      | 5513                        | LP_Signal_13     | Yes       |
| 14      | 5508                        | LP_Signal_14     | Yes       |
| 15      | 5516                        | LP_Signal_15     | No        |
| 16      | 5510                        | LP_Signal_16     | Yes       |
| 17      | 5498                        | LP_Signal_17     | Yes       |
| 18      | 5520                        | LP_Signal_18     | Yes       |
| 19      | 5496                        | LP_Signal_19     | Yes       |
| 20      | 5523                        | LP_Signal_20     | Yes       |
| 21      | 5503                        | LP_Signal_21     | Yes       |
| 22      | 5524                        | LP_Signal_22     | Yes       |
| 23      | 5505                        | LP_Signal_23     | Yes       |
| 24      | 5502                        | LP_Signal_24     | Yes       |
| 25      | 5513                        | LP_Signal_25     | No        |
| 26      | 5510                        | LP_Signal_26     | Yes       |
| 27      | 5512                        | LP_Signal_27     | Yes       |
| 28      | 5502                        | LP_Signal_28     | Yes       |
| 29      | 5511                        | LP_Signal_29     | Yes       |
| 30      | 5504                        | LP_Signal_30     | No        |

Detection Rate: 86.7 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

### 802.11ac (VHT40)

#### Type 6 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | No        |
| 8       | 9                | 1               | 333.3   | No        |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | No        |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | Yes       |

Detection Rate: 90.0 %



A D T

**802.11ac (VHT40)**

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

Detection Rate: 90.0 %

The Frequency Hopping Radar pattern shown in Annex B.2



A D T

### 802.11ac (VHT80)

#### Type 1 Radar Statistical Performances

| Trial # | Test Center Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|-----------------------------|---|--|------------------|--|-----------|
| 1       | 5530                        | 22  | 1066   | 57               | 938                                      | Yes       |
| 2       | 5540                        | 21  | 1089   | 58               | 918                                      | Yes       |
| 3       | 5560                        | 2   | 1859   | 99               | 538                                      | Yes       |
| 4       | 5520                        | 8   | 1520   | 81               | 658                                      | No        |
| 5       | 5500                        | 15  | 1253   | 67               | 798                                      | Yes       |
| 6       | 5518                        | 10  | 1433   | 76               | 698                                      | Yes       |
| 7       | 5542                        | 12  | 1355   | 72               | 738                                      | Yes       |
| 8       | 5495                        | 9   | 1475   | 78               | 678                                      | Yes       |
| 9       | 5514                        | 7   | 1567   | 83               | 638                                      | Yes       |
| 10      | 5515                        | 14  | 1285   | 68               | 778                                      | Yes       |
| 11      | 5505                        | 17  | 1193   | 63               | 838                                      | Yes       |
| 12      | 5540                        | 11  | 1393   | 74               | 718                                      | Yes       |
| 13      | 5539                        | 18  | 1166   | 62               | 858                                      | Yes       |
| 14      | 5498                        | 23  | 326.2  | 18               | 3066                                     | Yes       |
| 15      | 5498                        | 6   | 1618   | 86               | 618                                      | No        |
| 16      | 5548                        |   | 436.5  | 24               | 2291                                     | Yes       |
| 17      | 5525                        |   | 554.9  | 30               | 1802                                     | Yes       |
| 18      | 5507                        |   | 625  | 33               | 1600                                     | Yes       |
| 19      | 5566                        |   | 464.3  | 25               | 2154                                     | Yes       |
| 20      | 5514                        |   | 660.5  | 35               | 1514                                     | Yes       |
| 21      | 5516                        |   | 616.5  | 33               | 1622                                     | Yes       |
| 22      | 5526                        |   | 422.7  | 23               | 2366                                     | Yes       |
| 23      | 5515                        |   | 562.1  | 30               | 1779                                     | Yes       |
| 24      | 5520                        |   | 389.6  | 21               | 2567                                     | Yes       |
| 25      | 5544                        |   | 373  | 20               | 2681                                     | Yes       |
| 26      | 5556                        |   | 492.6  | 26               | 2030                                     | Yes       |
| 27      | 5553                        |   | 598.1  | 32               | 1672                                     | Yes       |
| 28      | 5527                        |   | 944.3  | 50               | 1059                                     | Yes       |
| 29      | 5544                        |   | 622.3  | 33               | 1607                                     | No        |
| 30      | 5536                        |   | 434.4  | 23               | 2302                                     | Yes       |

Detection Rate: 90.0 %



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### 802.11ac (VHT80)

#### Type 2 Radar Statistical Performances

| Trial # | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                       | 25               | 2.7             | 190     | Yes       |
| 2       | 5540                       | 26               | 2.8             | 175     | Yes       |
| 3       | 5560                       | 23               | 1.2             | 186     | Yes       |
| 4       | 5520                       | 26               | 2.9             | 165     | Yes       |
| 5       | 5500                       | 24               | 2.1             | 159     | No        |
| 6       | 5539                       | 25               | 2.7             | 152     | Yes       |
| 7       | 5550                       | 29               | 4.8             | 184     | No        |
| 8       | 5508                       | 29               | 4.9             | 198     | Yes       |
| 9       | 5507                       | 23               | 1.3             | 205     | Yes       |
| 10      | 5552                       | 27               | 3.4             | 221     | Yes       |
| 11      | 5535                       | 29               | 4.7             | 204     | Yes       |
| 12      | 5509                       | 26               | 3               | 187     | Yes       |
| 13      | 5501                       | 28               | 4.3             | 153     | Yes       |
| 14      | 5524                       | 24               | 1.6             | 174     | Yes       |
| 15      | 5515                       | 24               | 2.1             | 179     | Yes       |
| 16      | 5561                       | 27               | 3.6             | 229     | Yes       |
| 17      | 5519                       | 27               | 3.6             | 213     | Yes       |
| 18      | 5511                       | 27               | 3.3             | 162     | Yes       |
| 19      | 5521                       | 29               | 4.7             | 206     | Yes       |
| 20      | 5516                       | 28               | 4.2             | 210     | Yes       |
| 21      | 5564                       | 23               | 1               | 170     | Yes       |
| 22      | 5511                       | 23               | 1.2             | 218     | No        |
| 23      | 5516                       | 26               | 3.1             | 169     | Yes       |
| 24      | 5561                       | 24               | 1.7             | 227     | Yes       |
| 25      | 5523                       | 27               | 3.3             | 154     | No        |
| 26      | 5508                       | 25               | 2.2             | 196     | Yes       |
| 27      | 5495                       | 27               | 3.7             | 197     | Yes       |
| 28      | 5539                       | 24               | 2               | 217     | Yes       |
| 29      | 5537                       | 23               | 1.1             | 202     | Yes       |
| 30      | 5525                       | 25               | 2.3             | 215     | Yes       |

Detection Rate: 86.7 %



A D T

### 802.11ac (VHT80)

| Type 3 Radar Statistical Performances |                            |                  |                 |         |           |
|---------------------------------------|----------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
| 1                                     | 5530                       | 17               | 7.7             | 264     | Yes       |
| 2                                     | 5540                       | 17               | 7.8             | 370     | Yes       |
| 3                                     | 5560                       | 16               | 6.2             | 280     | No        |
| 4                                     | 5520                       | 17               | 7.9             | 350     | Yes       |
| 5                                     | 5500                       | 16               | 7.1             | 322     | Yes       |
| 6                                     | 5513                       | 17               | 7.7             | 400     | Yes       |
| 7                                     | 5538                       | 18               | 9.8             | 461     | Yes       |
| 8                                     | 5493                       | 18               | 9.9             | 313     | Yes       |
| 9                                     | 5520                       | 16               | 6.3             | 456     | Yes       |
| 10                                    | 5511                       | 17               | 8.4             | 398     | Yes       |
| 11                                    | 5539                       | 18               | 9.7             | 474     | Yes       |
| 12                                    | 5514                       | 17               | 8               | 466     | Yes       |
| 13                                    | 5559                       | 18               | 9.3             | 401     | Yes       |
| 14                                    | 5519                       | 16               | 6.6             | 259     | Yes       |
| 15                                    | 5551                       | 16               | 7.1             | 451     | Yes       |
| 16                                    | 5556                       | 17               | 8.6             | 292     | Yes       |
| 17                                    | 5501                       | 17               | 8.6             | 490     | Yes       |
| 18                                    | 5504                       | 17               | 8.3             | 462     | Yes       |
| 19                                    | 5516                       | 18               | 9.7             | 497     | Yes       |
| 20                                    | 5496                       | 18               | 9.2             | 229     | No        |
| 21                                    | 5516                       | 16               | 6               | 325     | Yes       |
| 22                                    | 5501                       | 16               | 6.2             | 467     | No        |
| 23                                    | 5542                       | 17               | 8.1             | 282     | No        |
| 24                                    | 5508                       | 16               | 6.7             | 258     | Yes       |
| 25                                    | 5546                       | 17               | 8.3             | 209     | Yes       |
| 26                                    | 5535                       | 16               | 7.2             | 231     | Yes       |
| 27                                    | 5544                       | 18               | 8.7             | 480     | No        |
| 28                                    | 5508                       | 16               | 7               | 343     | Yes       |
| 29                                    | 5501                       | 16               | 6.1             | 321     | Yes       |
| 30                                    | 5549                       | 16               | 7.3             | 254     | Yes       |

Detection Rate: 83.3 %



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**802.11ac (VHT80)**

| Type 4 Radar Statistical Performances |                            |                  |                 |         |           |
|---------------------------------------|----------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Test Center Frequency(MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
| 1                                     | 5530                       | 14               | 14.8            | 264     | Yes       |
| 2                                     | 5540                       | 14               | 15.1            | 370     | Yes       |
| 3                                     | 5560                       | 12               | 11.5            | 280     | No        |
| 4                                     | 5520                       | 14               | 15.3            | 350     | Yes       |
| 5                                     | 5500                       | 13               | 13.4            | 322     | Yes       |
| 6                                     | 5537                       | 14               | 14.8            | 400     | Yes       |
| 7                                     | 5539                       | 16               | 19.5            | 461     | No        |
| 8                                     | 5494                       | 16               | 19.7            | 313     | No        |
| 9                                     | 5525                       | 12               | 11.8            | 456     | No        |
| 10                                    | 5519                       | 14               | 16.3            | 398     | Yes       |
| 11                                    | 5499                       | 16               | 19.3            | 474     | Yes       |
| 12                                    | 5511                       | 14               | 15.4            | 466     | Yes       |
| 13                                    | 5563                       | 16               | 18.4            | 401     | Yes       |
| 14                                    | 5555                       | 12               | 12.3            | 259     | Yes       |
| 15                                    | 5497                       | 13               | 13.5            | 451     | Yes       |
| 16                                    | 5540                       | 15               | 16.9            | 292     | Yes       |
| 17                                    | 5544                       | 15               | 16.8            | 490     | Yes       |
| 18                                    | 5521                       | 14               | 16.2            | 462     | Yes       |
| 19                                    | 5513                       | 16               | 19.3            | 497     | Yes       |
| 20                                    | 5548                       | 15               | 18.2            | 229     | Yes       |
| 21                                    | 5509                       | 12               | 11.1            | 325     | No        |
| 22                                    | 5528                       | 12               | 11.5            | 467     | Yes       |
| 23                                    | 5501                       | 14               | 15.6            | 282     | No        |
| 24                                    | 5521                       | 12               | 12.6            | 258     | Yes       |
| 25                                    | 5514                       | 14               | 16.2            | 209     | Yes       |
| 26                                    | 5544                       | 13               | 13.8            | 231     | Yes       |
| 27                                    | 5522                       | 15               | 17.1            | 480     | Yes       |
| 28                                    | 5555                       | 13               | 13.4            | 343     | Yes       |
| 29                                    | 5549                       | 12               | 11.2            | 321     | Yes       |
| 30                                    | 5538                       | 13               | 13.9            | 254     | Yes       |

Detection Rate: 80.0 %



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### 802.11ac (VHT80)

| Type 5 Radar Statistical Performances |                             |                  |           |
|---------------------------------------|-----------------------------|------------------|-----------|
| Trial #                               | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
| 1                                     | 5530                        | LP_Signal_01     | Yes       |
| 2                                     | 5540                        | LP_Signal_02     | Yes       |
| 3                                     | 5560                        | LP_Signal_03     | No        |
| 4                                     | 5520                        | LP_Signal_04     | Yes       |
| 5                                     | 5500                        | LP_Signal_05     | Yes       |
| 6                                     | 5552                        | LP_Signal_06     | Yes       |
| 7                                     | 5558                        | LP_Signal_07     | Yes       |
| 8                                     | 5548                        | LP_Signal_08     | Yes       |
| 9                                     | 5499                        | LP_Signal_09     | Yes       |
| 10                                    | 5507                        | LP_Signal_10     | No        |
| 11                                    | 5558                        | LP_Signal_11     | Yes       |
| 12                                    | 5525                        | LP_Signal_12     | Yes       |
| 13                                    | 5547                        | LP_Signal_13     | No        |
| 14                                    | 5513                        | LP_Signal_14     | Yes       |
| 15                                    | 5552                        | LP_Signal_15     | Yes       |
| 16                                    | 5552                        | LP_Signal_16     | Yes       |
| 17                                    | 5512                        | LP_Signal_17     | Yes       |
| 18                                    | 5521                        | LP_Signal_18     | Yes       |
| 19                                    | 5520                        | LP_Signal_19     | Yes       |
| 20                                    | 5502                        | LP_Signal_20     | Yes       |
| 21                                    | 5512                        | LP_Signal_21     | Yes       |
| 22                                    | 5504                        | LP_Signal_22     | Yes       |
| 23                                    | 5531                        | LP_Signal_23     | No        |
| 24                                    | 5539                        | LP_Signal_24     | Yes       |
| 25                                    | 5550                        | LP_Signal_25     | Yes       |
| 26                                    | 5532                        | LP_Signal_26     | Yes       |
| 27                                    | 5529                        | LP_Signal_27     | Yes       |
| 28                                    | 5505                        | LP_Signal_28     | No        |
| 29                                    | 5527                        | LP_Signal_29     | Yes       |
| 30                                    | 5526                        | LP_Signal_30     | Yes       |

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Annex B.1



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**802.11ac (VHT80)**

**Type 6 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | No        |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | No        |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | No        |
| 30      | 9                | 1               | 333.3   | Yes       |

Detection Rate: 90.0 %



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**802.11ac (VHT80)**

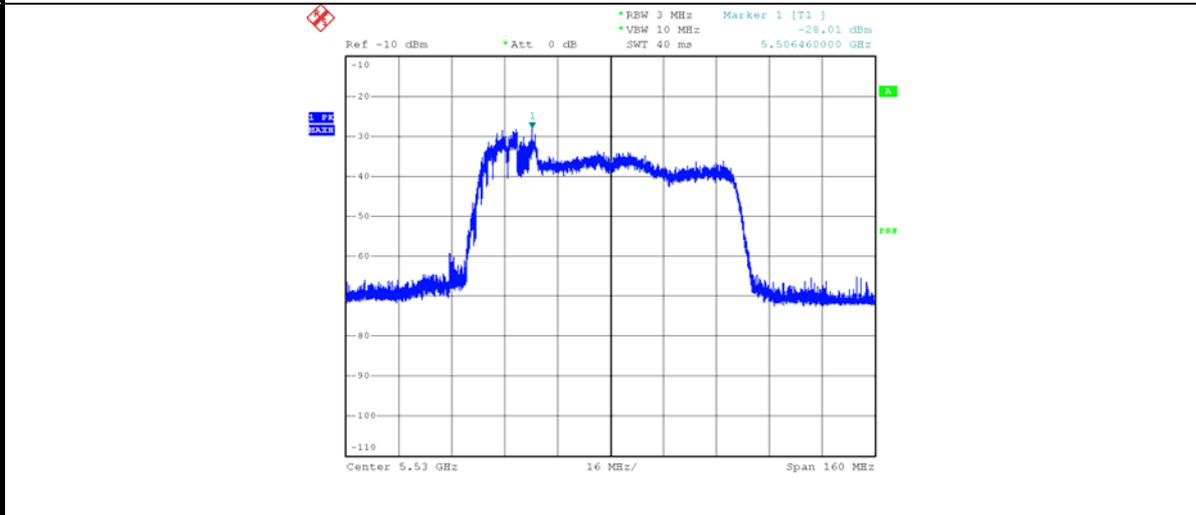
| Type 6 Radar Statistical Performances |                                 |           |
|---------------------------------------|---------------------------------|-----------|
| Trial #                               | Hopping Frequency Sequence Name | Detection |
| 1                                 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

Detection Rate: 90.0 %

The Frequency Hopping Radar pattern shown in Annex B.2

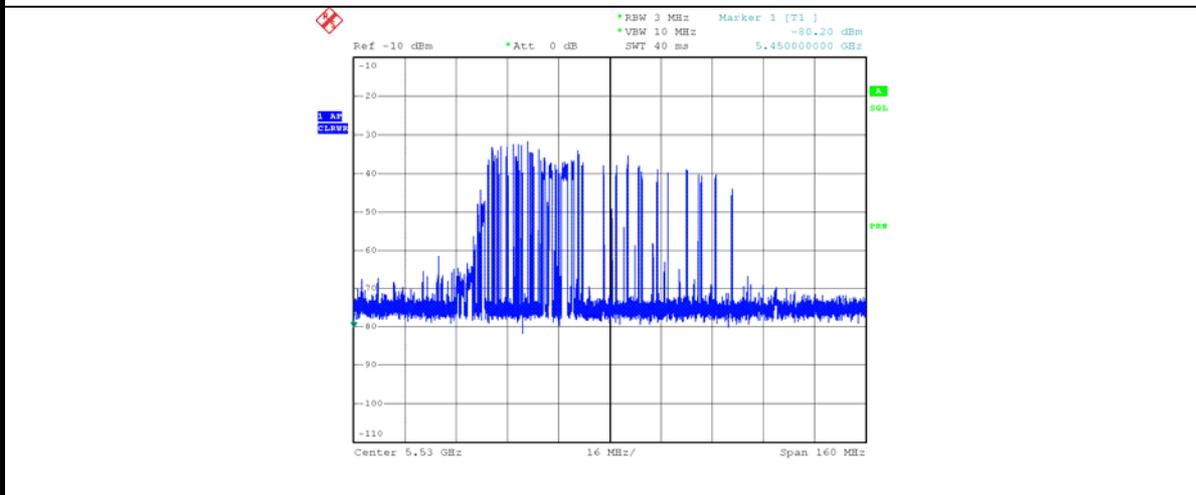
### 6.2.1.4 NON- OCCUPANCY PERIOD

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



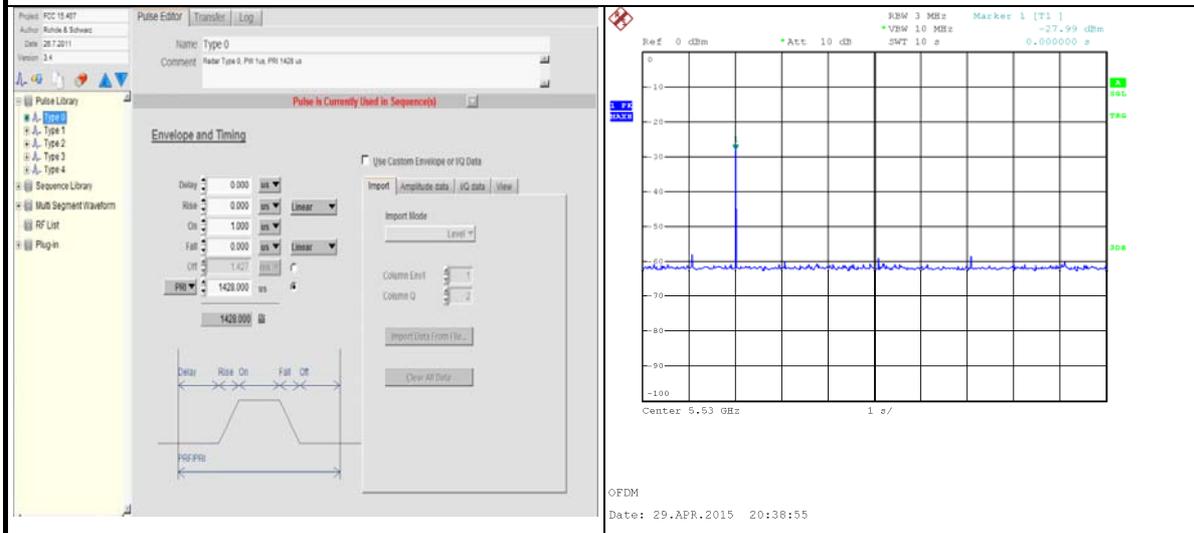
EUT (Client) links with Master on 5530MHz

2) The DFS-certified master and 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.

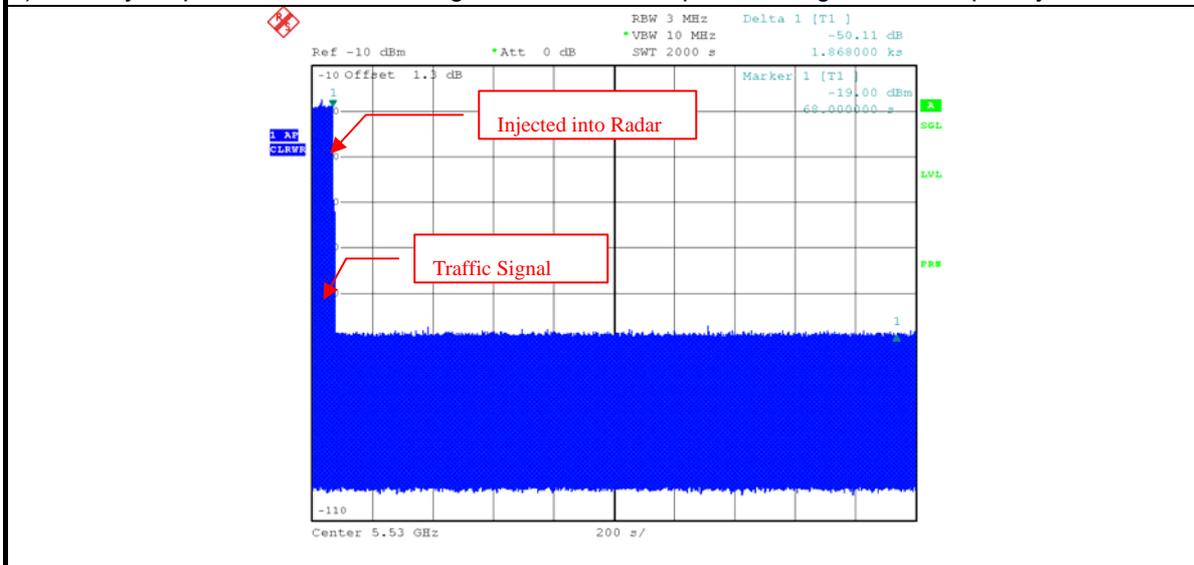


Radar 0 is used to test during DFS testing.

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.

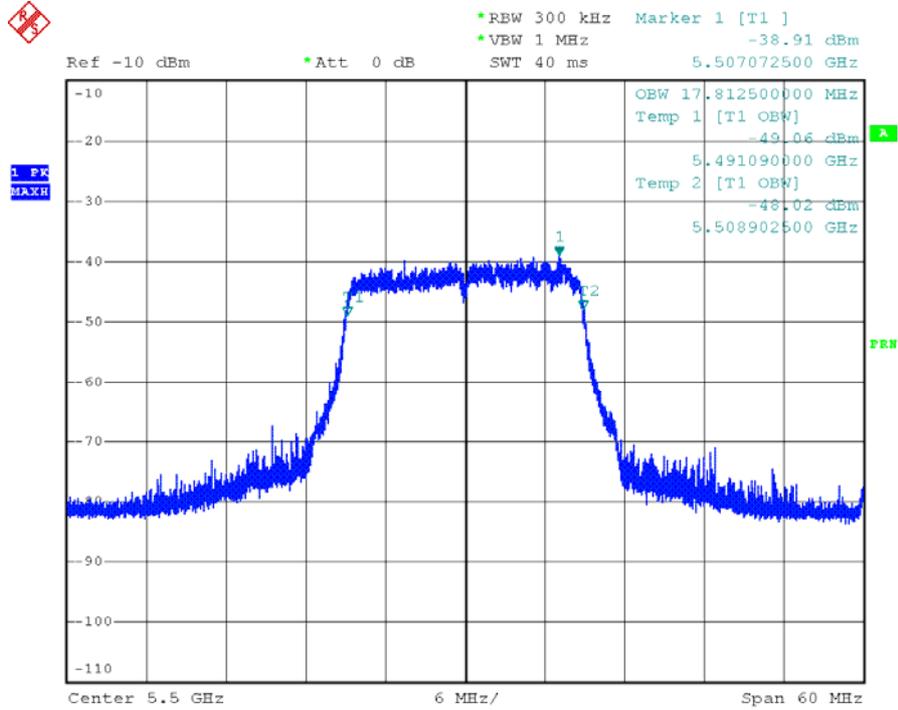




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### 6.2.1.6 U-NII DETECTION BANDWIDTH

#### 802.11ac (VHT20)



U-NII 99% Channel bandwidth



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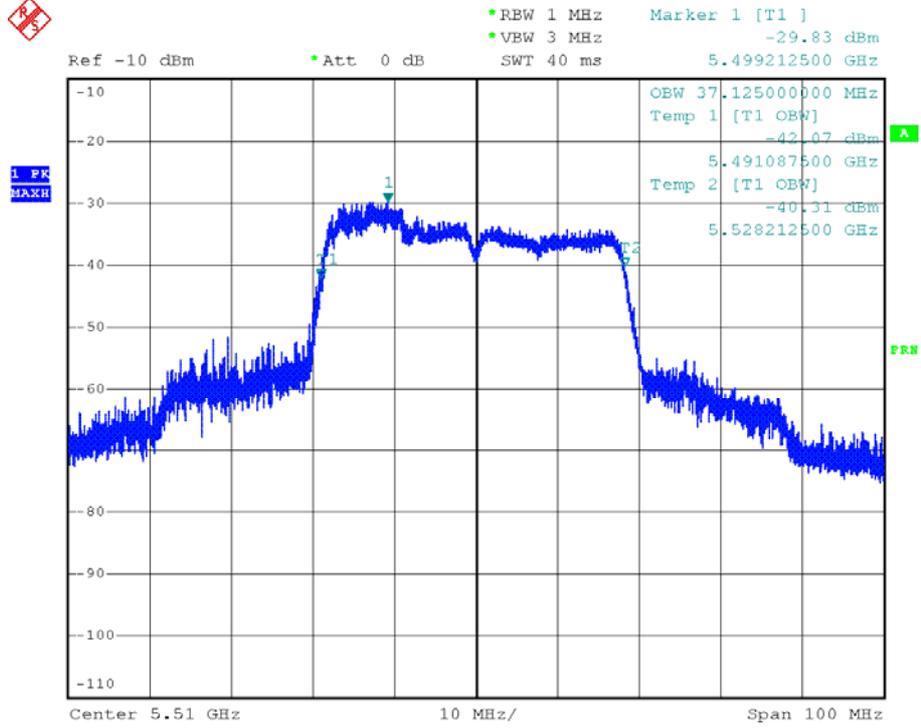
**802.11ac (VHT20)**

| Detection Bandwidth Test  |                          |     |     |     |     |     |     |     |     |     |                       |
|---|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
| EUT Frequency: 5.500GHz   |                          |     |     |     |     |     |     |     |     |     |                       |
| EUT 99% Power bandwidth: 17.8125MHz                                     |                          |     |     |     |     |     |     |     |     |     |                       |
| Detection bandwidth limit (100% of EUT 99% Power bandwidth): 17.8125MHz |                          |     |     |     |     |     |     |     |     |     |                       |
| Detection Bandwidth (FH - FL): 18.00MHz                                 |                          |     |     |     |     |     |     |     |     |     |                       |
| Test Result : PASS  |                          |     |     |     |     |     |     |     |     |     |                       |
| Radar<br>Frequency (Hz)   | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|   | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5.490G  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                     |
| 5.491G(FL)  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | 90                    |
| 5.492G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.493G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.494G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.495G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.496G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.497G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.498G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.499G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.500G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.501G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.502G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.503G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.504G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.505G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.506G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.507G  | No                       | Yes | 90                    |
| 5.508G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.509G(FH)  | Yes                      | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | 90                    |
| 5.510G  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                     |



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### 802.11ac (VHT40)



U-NII 99% Channel bandwidth



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**802.11ac (VHT40)**

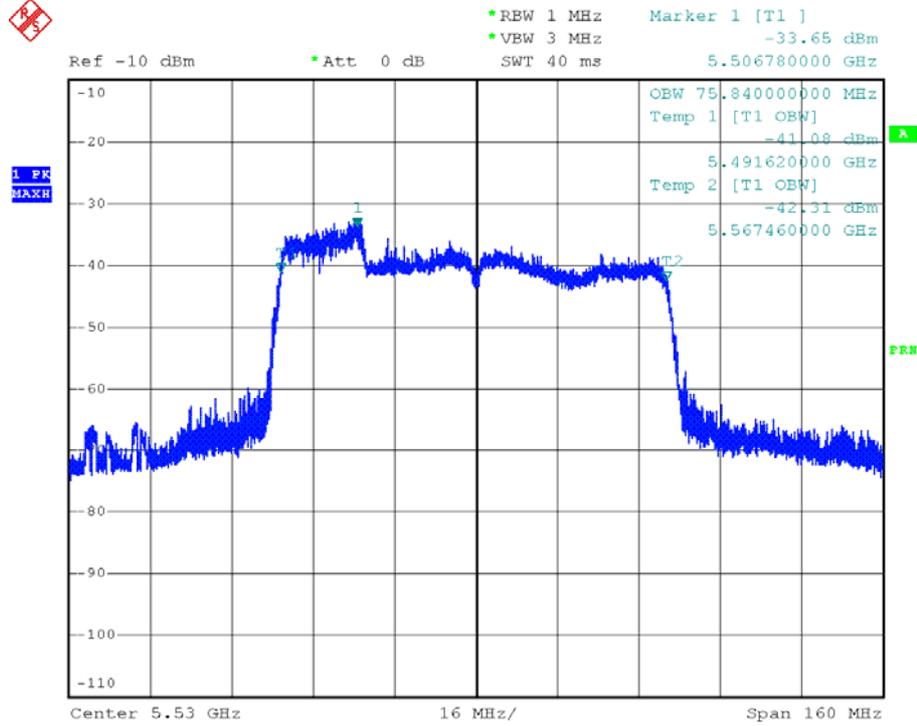
Detection Bandwidth Test  
 EUT Frequency: 5.510GHz  
 EUT 99% Power bandwidth: 37.125MHz  
 Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.125MHz  
 Detection Bandwidth (FH - FL): 38MHz  
 Test Result : PASS

| Radar Frequency (Hz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                      | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5.490G               | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                  |
| 5.491G(FL)           | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.492G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.493G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.494G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.495G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.496G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.497G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.498G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.499G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.500G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.501G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.502G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.503G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.504G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.505G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.506G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.507G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.508G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.509G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.510G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.511G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.512G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.513G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.514G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.515G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.516G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.517G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.518G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.519G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.520G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.521G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.522G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.523G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.524G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.525G               | No                       | Yes | 90                 |
| 5.526G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.527G               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.528G               | Yes                      | Yes | No  | Yes | 90                 |
| 5.529G(FH)           | Yes                      | Yes | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90                 |
| 5.530G               | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                  |



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### 802.11ac (VHT80)



U-NII 99% Channel bandwidth



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**802.11ac (VHT80)**

| Detection Bandwidth Test  |                          |     |     |     |     |     |     |     |     |     |                    |
|---|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| EUT Frequency: 5.530GHz   |                          |     |     |     |     |     |     |     |     |     |                    |
| EUT 99% Power bandwidth: 75.84MHz                                     |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection bandwidth limit (100% of EUT 99% Power bandwidth): 75.84MHz |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection Bandwidth (FH - FL): 76MHz                                  |                          |     |     |     |     |     |     |     |     |     |                    |
| Test Result : PASS  |                          |     |     |     |     |     |     |     |     |     |                    |
| Radar Frequency (Hz)  | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|   | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5.490G  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                  |
| 5.491G  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                  |
| 5.492G (FL)   | Yes                      | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | Yes | 90                 |
| 5.493G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.494G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.495G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.496G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.497G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.498G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.499G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.500G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.501G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.502G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.503G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.504G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.505G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.506G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.507G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.508G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.509G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.510G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.511G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.512G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.513G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.514G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.515G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.516G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.517G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.518G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.519G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.520G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.521G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.522G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.523G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.524G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.525G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.526G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.527G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.528G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.529G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.530G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.531G  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |



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|             |     |     |     |     |     |     |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5.532G      | Yes | 100 |
| 5.533G      | Yes | 100 |
| 5.534G      | Yes | 100 |
| 5.535G      | Yes | 100 |
| 5.536G      | Yes | 100 |
| 5.537G      | Yes | 100 |
| 5.538G      | Yes | 100 |
| 5.539G      | Yes | 100 |
| 5.540G      | Yes | 100 |
| 5.541G      | Yes | 100 |
| 5.542G      | Yes | 100 |
| 5.543G      | Yes | 100 |
| 5.544G      | Yes | 100 |
| 5.545G      | Yes | 100 |
| 5.546G      | Yes | 100 |
| 5.547G      | Yes | 100 |
| 5.548G      | Yes | 100 |
| 5.549G      | Yes | 100 |
| 5.550G      | Yes | 100 |
| 5.551G      | Yes | 100 |
| 5.552G      | Yes | 100 |
| 5.553G      | Yes | 100 |
| 5.554G      | Yes | 100 |
| 5.555G      | Yes | 100 |
| 5.556G      | Yes | 100 |
| 5.557G      | Yes | 100 |
| 5.558G      | Yes | 100 |
| 5.559G      | Yes | 100 |
| 5.560G      | Yes | 100 |
| 5.561G      | Yes | 100 |
| 5.562G      | Yes | 100 |
| 5.563G      | Yes | 100 |
| 5.564G      | Yes | 100 |
| 5.565G      | Yes | 100 |
| 5.566G      | Yes | 100 |
| 5.567G      | Yes | 100 |
| 5.568G (FH) | Yes | 100 |
| 5.569G      | No  | 0   |
| 5.570G      | No  | 0   |



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#### 6.2.1.7 NON-CO-CHANNEL TEST

The UUT was investigated after radar was detected the channel and made sure no co-channel operation with radars.



## 7. INFORMATION ON 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:

If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180

Fax: 886-2-26052943

**Hsin Chu EMC/RF/Telecom Lab:**

Tel: 886-3-5935343

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**Hwa Ya EMC/RF/Safety Lab:**

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**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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



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## 8. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

Modifications or adding components during the test

No any modifications are made to the EUT by the lab during the test.



### 9. APPENDIX-B

#### RADAR TEST SIGNAL

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

| Long Pulse Radar Test Signal   |                  |             |                 |            |            |            |
|--------------------------------|------------------|-------------|-----------------|------------|------------|------------|
| Test Signal Name: LP_Signal_01 |                  |             |                 |            |            |            |
| 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          | 71.4            | 1802       | 1484       | -          |
| 2                              | 2                | 12          | 72.9            | 1618       | 1750       | -          |
| 3                              | 1                | 5           | 52.9            | 1654       | -          | -          |
| 4                              | 2                | 12          | 74              | 1742       | 1659       | -          |
| 5                              | 1                | 9           | 63.4            | 1097       | -          | -          |
| 6                              | 2                | 11          | 71.2            | 1072       | 1940       | -          |
| 7                              | 3                | 20          | 97              | 1824       | 1300       | 1658       |
| 8                              | 3                | 20          | 97.9            | 1279       | 1115       | 1411       |
| 9                              | 1                | 6           | 54.5            | 1974       | -          | -          |
| 10                             | 2                | 14          | 79.6            | 1304       | 1378       | -          |
| 11                             | 3                | 19          | 96.2            | 1471       | 1233       | 1921       |
| 12                             | 2                | 12          | 74.7            | 1177       | 1638       | -          |
| 13                             | 3                | 18          | 91              | 1668       | 1763       | 1077       |
| 14                             |                  |             |                 |            |            |            |
| 15                             |                  |             |                 |            |            |            |
| 16                             |                  |             |                 |            |            |            |
| 17                             |                  |             |                 |            |            |            |
| 18                             |                  |             |                 |            |            |            |
| 19                             |                  |             |                 |            |            |            |
| 20                             |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

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                | 7           | 57.6            | 1988       | -          | -          |
| 2     | 1                | 9           | 64.1            | 1013       | -          | -          |
| 3     | 2                | 15          | 82.6            | 1611       | 1070       | -          |
| 4     | 2                | 15          | 82.3            | 1991       | 1683       | -          |
| 5     | 2                | 14          | 78.8            | 1702       | 1478       | -          |
| 6     | 3                | 19          | 96.1            | 1813       | 1847       | 1995       |
| 7     | 3                | 17          | 90              | 1749       | 1346       | 1133       |
| 8     | 1                | 5           | 50.6            | 1710       | -          | -          |
| 9     | 1                | 5           | 52.8            | 1195       | -          | -          |
| 10    | 2                | 13          | 75.6            | 1861       | 1244       | -          |
| 11    | 1                | 7           | 58.8            | 1218       | -          | -          |
| 12    | 2                | 14          | 79.1            | 1544       | 1775       | -          |
| 13    | 1                | 10          | 65.7            | 1186       | -          | -          |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

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     | 3                | 15          | 83.6            | 1369       | 1139       | 1441       |
| 2     | 1                | 9           | 63.2            | 1909       | -          | -          |
| 3     | 1                | 5           | 51.6            | 1664       | -          | -          |
| 4     | 1                | 10          | 66.5            | 1883       | -          | -          |
| 5     | 2                | 13          | 75.5            | 1560       | 1335       | -          |
| 6     | 3                | 18          | 91.2            | 1144       | 1617       | 1582       |
| 7     | 3                | 19          | 95.9            | 1111       | 1312       | 1329       |
| 8     | 1                | 8           | 60.7            | 1754       | -          | -          |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

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                | 17          | 89.3            | 1564       | 1977       | 1832       |
| 2     | 1                | 7           | 57.6            | 1639       | -          | -          |
| 3     | 2                | 12          | 74.3            | 1600       | 1127       | -          |
| 4     | 2                | 13          | 75.7            | 1631       | 1125       | -          |
| 5     | 3                | 19          | 94.3            | 1353       | 1464       | 1984       |
| 6     | 1                | 6           | 53.3            | 1030       | -          | -          |
| 7     | 2                | 11          | 70.7            | 1677       | 1798       | -          |
| 8     | 1                | 8           | 60.8            | 1836       | -          | -          |
| 9     | 1                | 9           | 63.4            | 1053       | -          | -          |
| 10    | 1                | 9           | 64.6            | 1899       | -          | -          |
| 11    | 2                | 15          | 82.6            | 1725       | 1082       | -          |
| 12    | 3                | 16          | 86              | 1272       | 1821       | 1171       |
| 13    | 2                | 11          | 69.9            | 1833       | 1765       | -          |
| 14    | 2                | 14          | 79.9            | 1102       | 1385       | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

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                | 5           | 51.3            | 1017       | -          | -          |
| 2     | 2                | 11          | 70.5            | 1275       | 1651       | -          |
| 3     | 2                | 12          | 72.8            | 1868       | 1107       | -          |
| 4     | 3                | 17          | 88.8            | 1682       | 1496       | 1714       |
| 5     | 1                | 7           | 58              | 1389       | -          | -          |
| 6     | 1                | 10          | 66.1            | 1588       | -          | -          |
| 7     | 3                | 20          | 99.9            | 1242       | 1577       | 1063       |
| 8     | 2                | 10          | 68.6            | 1035       | 1311       | -          |
| 9     | 3                | 20          | 97.3            | 1672       | 1578       | 1203       |
| 10    | 3                | 19          | 94.1            | 1660       | 1348       | 1783       |
| 11    | 3                | 19          | 94.9            | 1278       | 1058       | 1859       |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

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          | 97.8            | 1376       | 1735       | 1705       |
| 2     | 3                | 17          | 87.6            | 1264       | 1721       | 1020       |
| 3     | 3                | 15          | 83.7            | 1715       | 1246       | 1361       |
| 4     | 3                | 19          | 96.3            | 1078       | 1815       | 1116       |
| 5     | 3                | 17          | 88.1            | 1176       | 1997       | 1302       |
| 6     | 1                | 6           | 54.1            | 1375       | -          | -          |
| 7     | 1                | 6           | 54.9            | 1168       | -          | -          |
| 8     | 2                | 14          | 78.9            | 1467       | 1657       | -          |
| 9     | 2                | 14          | 80.3            | 1148       | 1568       | -          |
| 10    | 2                | 10          | 68.3            | 1963       | 1402       | -          |
| 11    | 1                | 7           | 56.4            | 1848       | -          | -          |
| 12    | 1                | 7           | 58.2            | 1630       | -          | -          |
| 13    | 1                | 7           | 56.5            | 1105       | -          | -          |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

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                | 16          | 84.6            | 1756       | 1857       | 1741       |
| 2     | 3                | 18          | 92.7            | 1470       | 1236       | 1262       |
| 3     | 2                | 11          | 69.2            | 1733       | 1200       | -          |
| 4     | 3                | 17          | 89.8            | 1793       | 1703       | 1923       |
| 5     | 3                | 17          | 89.4            | 1880       | 1676       | 1486       |
| 6     | 1                | 8           | 61              | 1462       | -          | -          |
| 7     | 2                | 13          | 76.2            | 1280       | 1918       | -          |
| 8     | 3                | 18          | 93.1            | 1299       | 1661       | 1110       |
| 9     | 3                | 19          | 95.8            | 1846       | 1011       | 1964       |
| 10    | 1                | 6           | 53.6            | 1810       | -          | -          |
| 11    | 1                | 8           | 61.9            | 1435       | -          | -          |
| 12    | 2                | 14          | 81.1            | 1744       | 1864       | -          |
| 13    | 3                | 18          | 93.7            | 1875       | 1392       | 1212       |
| 14    | 3                | 16          | 86.8            | 1644       | 1622       | 1863       |
| 15    | 2                | 15          | 83.2            | 1445       | 1797       | -          |
| 16    | 2                | 14          | 79.7            | 1764       | 1674       | -          |
| 17    | 1                | 8           | 60.8            | 1500       | -          | -          |
| 18    | 2                | 11          | 70.7            | 1901       | 1033       | -          |
| 19    | 1                | 8           | 60.4            | 1751       | -          | -          |
| 20    | 2                | 14          | 80.2            | 1626       | 1730       | -          |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

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     | 2                | 14          | 80.9            | 1545       | 1603       | -          |
| 2     | 3                | 19          | 96.5            | 1189       | 1449       | 1225       |
| 3     | 1                | 10          | 65.8            | 1925       | -          | -          |
| 4     | 3                | 16          | 87              | 1018       | 1049       | 1841       |
| 5     | 1                | 9           | 64.6            | 1048       | -          | -          |
| 6     | 2                | 13          | 75.3            | 1429       | 1368       | -          |
| 7     | 1                | 8           | 60.4            | 1156       | -          | -          |
| 8     | 2                | 13          | 77.7            | 1681       | 1307       | -          |
| 9     | 1                | 7           | 57.1            | 1625       | -          | -          |
| 10    | 3                | 17          | 89.7            | 1355       | 1088       | 1374       |
| 11    | 1                | 8           | 61.6            | 1537       | -          | -          |
| 12    | 3                | 19          | 94.9            | 1989       | 1865       | 1947       |
| 13    | 1                | 8           | 62.2            | 1234       | -          | -          |
| 14    | 1                | 10          | 66.2            | 1931       | -          | -          |
| 15    | 1                | 6           | 54.2            | 1062       | -          | -          |
| 16    | 1                | 9           | 65.4            | 1014       | -          | -          |
| 17    | 3                | 19          | 96.9            | 1572       | 1489       | 1042       |
| 18    | 1                | 8           | 60              | 1576       | -          | -          |
| 19    | 2                | 14          | 79.2            | 1757       | 1993       | -          |
| 20    | 3                | 16          | 86.2            | 1237       | 1607       | 1060       |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

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                | 10          | 67.9            | 1522       | 1835       | -          |
| 2     | 1                | 5           | 51.7            | 1472       | -          | -          |
| 3     | 1                | 5           | 51.9            | 1917       | -          | -          |
| 4     | 3                | 15          | 83.9            | 1130       | 1323       | 1518       |
| 5     | 2                | 11          | 71.8            | 1284       | 1515       | -          |
| 6     | 1                | 9           | 65.1            | 1068       | -          | -          |
| 7     | 3                | 19          | 94.4            | 1173       | 1019       | 1934       |
| 8     | 2                | 10          | 67.4            | 1624       | 1866       | -          |
| 9     | 2                | 11          | 71.8            | 1209       | 1288       | -          |
| 10    | 2                | 10          | 68.1            | 1963       | 1468       | -          |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

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     | 3                | 20          | 99.2            | 1814       | 1640       | 1794       |
| 2     | 2                | 11          | 69.4            | 1316       | 1641       | -          |
| 3     | 3                | 20          | 97.7            | 1675       | 1548       | 1344       |
| 4     | 3                | 19          | 96.1            | 1075       | 1407       | 1413       |
| 5     | 2                | 13          | 78.1            | 1728       | 1052       | -          |
| 6     | 2                | 13          | 75.7            | 1492       | 1162       | -          |
| 7     | 3                | 17          | 88.1            | 1205       | 1529       | 1508       |
| 8     | 2                | 13          | 76.9            | 1584       | 1558       | -          |
| 9     | 2                | 15          | 82.3            | 1616       | 1438       | -          |
| 10    | 2                | 13          | 75.2            | 1074       | 1680       | -          |
| 11    | 1                | 9           | 64              | 1566       | -          | -          |
| 12    | 1                | 5           | 50.5            | 1085       | -          | -          |
| 13    | 3                | 20          | 98.6            | 1123       | 1090       | 1509       |
| 14    | 3                | 16          | 85.9            | 1719       | 1845       | 1949       |
| 15    | 1                | 6           | 56.1            | 1726       | -          | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

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     | 3                | 18          | 92.1            | 1098       | 1308       | 1459       |
| 2     | 2                | 10          | 67              | 1927       | 1877       | -          |
| 3     | 2                | 11          | 68.8            | 1126       | 1468       | -          |
| 4     | 2                | 13          | 77.5            | 1609       | 1286       | -          |
| 5     | 2                | 15          | 82.5            | 1091       | 1083       | -          |
| 6     | 2                | 10          | 67.8            | 1163       | 1523       | -          |
| 7     | 2                | 15          | 82.9            | 1650       | 1843       | -          |
| 8     | 1                | 5           | 50.8            | 1643       | -          | -          |
| 9     | 3                | 18          | 91.5            | 1405       | 1469       | 1739       |
| 10    | 2                | 12          | 74.2            | 1933       | 1366       | -          |
| 11    | 1                | 8           | 62.3            | 1352       | -          | -          |
| 12    | 2                | 14          | 79.1            | 1944       | 1119       | -          |
| 13    | 3                | 19          | 94.6            | 1034       | 1357       | 1554       |
| 14    | 2                | 15          | 81.9            | 1227       | 1839       | -          |
| 15    | 1                | 9           | 65.2            | 1592       | -          | -          |
| 16    | 3                | 20          | 99.5            | 1418       | 1636       | 1533       |
| 17    | 2                | 14          | 80.9            | 1881       | 1786       | -          |
| 18    | 3                | 18          | 93.1            | 1818       | 1998       | 1736       |
| 19    | 1                | 6           | 55.9            | 1936       | -          | -          |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

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                | 7           | 58              | 1004       | -          | -          |
| 2     | 2                | 11          | 70.3            | 1393       | 1504       | -          |
| 3     | 1                | 9           | 63.9            | 1586       | -          | -          |
| 4     | 3                | 20          | 98.9            | 1822       | 1727       | 1986       |
| 5     | 3                | 15          | 84.2            | 1623       | 1382       | 1419       |
| 6     | 3                | 17          | 90.6            | 1096       | 1745       | 1987       |
| 7     | 1                | 10          | 66.1            | 1669       | -          | -          |
| 8     | 3                | 17          | 88.5            | 1820       | 1811       | 1590       |
| 9     | 1                | 9           | 64.5            | 1834       | -          | -          |
| 10    | 3                | 16          | 84.8            | 1036       | 1466       | 1027       |
| 11    | 1                | 9           | 65.1            | 1536       | -          | -          |
| 12    | 3                | 16          | 85.6            | 1620       | 1347       | 1397       |
| 13    | 2                | 11          | 69.3            | 1951       | 1772       | -          |
| 14    | 1                | 10          | 65.8            | 1693       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

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                | 19          | 95.9            | 1905       | 1890       | 1037       |
| 2     | 3                | 18          | 91.9            | 1724       | 1615       | 1081       |
| 3     | 1                | 6           | 54.7            | 1912       | -          | -          |
| 4     | 3                | 19          | 96.3            | 1169       | 1073       | 1805       |
| 5     | 2                | 10          | 66.9            | 1482       | 1550       | -          |
| 6     | 3                | 16          | 84.9            | 1356       | 1953       | 1450       |
| 7     | 1                | 6           | 53.9            | 1157       | -          | -          |
| 8     | 1                | 10          | 66.2            | 1720       | -          | -          |
| 9     | 2                | 10          | 68.6            | 1530       | 1093       | -          |
| 10    | 1                | 6           | 56.2            | 1296       | -          | -          |
| 11    | 2                | 11          | 71.9            | 1159       | 1021       | -          |
| 12    | 1                | 10          | 65.8            | 1955       | -          | -          |
| 13    | 3                | 19          | 96.6            | 1394       | 1431       | 1422       |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

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           | 57.5            | 1259       | -          | -          |
| 2     | 3                | 18          | 92.6            | 1516       | 1241       | 1129       |
| 3     | 2                | 13          | 77.9            | 1326       | 1684       | -          |
| 4     | 3                | 16          | 85.9            | 1990       | 1968       | 1103       |
| 5     | 2                | 14          | 78.2            | 1614       | 1531       | -          |
| 6     | 2                | 10          | 68.2            | 1332       | 1166       | -          |
| 7     | 3                | 16          | 84.7            | 1985       | 1124       | 1502       |
| 8     | 3                | 16          | 86.9            | 1251       | 1118       | 1882       |
| 9     | 1                | 10          | 66.4            | 1959       | -          | -          |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

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     | 2                | 14          | 79.3            | 1439       | 1557       | -          |
| 2     | 2                | 10          | 68.3            | 1809       | 1924       | -          |
| 3     | 1                | 10          | 66              | 1291       | -          | -          |
| 4     | 2                | 13          | 76.3            | 1782       | 1475       | -          |
| 5     | 3                | 17          | 88.6            | 1491       | 1887       | 1790       |
| 6     | 3                | 18          | 93              | 1408       | 1055       | 1206       |
| 7     | 1                | 9           | 63.2            | 1437       | -          | -          |
| 8     | 3                | 20          | 98.8            | 1926       | 1403       | 1399       |
| 9     | 3                | 17          | 90.1            | 1202       | 1517       | 1686       |
| 10    | 1                | 8           | 60.4            | 1220       | -          | -          |
| 11    | 1                | 6           | 53.1            | 1543       | -          | -          |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

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     | 1                | 9           | 64              | 1919       | -          | -          |
| 2     | 1                | 7           | 58.2            | 1321       | -          | -          |
| 3     | 1                | 5           | 51.9            | 1945       | -          | -          |
| 4     | 3                | 18          | 91.8            | 1287       | 1025       | 1428       |
| 5     | 1                | 5           | 51.6            | 1456       | -          | -          |
| 6     | 1                | 7           | 57.7            | 1904       | -          | -          |
| 7     | 2                | 13          | 76.9            | 1330       | 1002       | -          |
| 8     | 2                | 10          | 68.3            | 1633       | 1406       | -          |
| 9     | 3                | 19          | 94              | 1141       | 1801       | 1138       |
| 10    | 2                | 12          | 72.7            | 1261       | 1520       | -          |
| 11    | 3                | 18          | 93.5            | 1185       | 1574       | 1354       |
| 12    | 3                | 20          | 97.5            | 1591       | 1112       | 1528       |
| 13    | 1                | 7           | 59              | 1172       | -          | -          |
| 14    | 2                | 15          | 82              | 1228       | 1196       | -          |
| 15    | 2                | 13          | 78.1            | 1553       | 1506       | -          |
| 16    | 2                | 13          | 76.7            | 1320       | 1143       | -          |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

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     | 3                | 17          | 88              | 1009       | 1911       | 1734       |
| 2     | 1                | 8           | 60              | 1444       | -          | -          |
| 3     | 1                | 9           | 63.6            | 1902       | -          | -          |
| 4     | 3                | 16          | 86.6            | 1916       | 1223       | 1488       |
| 5     | 1                | 8           | 61.6            | 1889       | -          | -          |
| 6     | 2                | 14          | 80              | 1573       | 1167       | -          |
| 7     | 2                | 10          | 68.5            | 1938       | 1692       | -          |
| 8     | 2                | 12          | 74.7            | 1265       | 1219       | -          |
| 9     | 3                | 20          | 97.9            | 1587       | 1213       | 1637       |
| 10    | 1                | 5           | 52.5            | 1701       | -          | -          |
| 11    | 2                | 14          | 79.9            | 1454       | 1807       | -          |
| 12    | 2                | 15          | 83.3            | 1930       | 1142       | -          |
| 13    | 2                | 12          | 72.9            | 1606       | 1939       | -          |
| 14    | 3                | 15          | 83.4            | 1778       | 1731       | 1314       |
| 15    | 3                | 19          | 94.8            | 1260       | 1067       | 1535       |
| 16    | 1                | 6           | 54.9            | 1440       | -          | -          |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

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                | 7           | 56.6            | 1147       | -          | -          |
| 2     | 2                | 12          | 72.6            | 1152       | 1601       | -          |
| 3     | 2                | 11          | 69.1            | 1571       | 1803       | -          |
| 4     | 3                | 20          | 99.4            | 1350       | 1146       | 1760       |
| 5     | 3                | 18          | 90.7            | 1064       | 1309       | 1896       |
| 6     | 3                | 16          | 86.1            | 1983       | 1816       | 1855       |
| 7     | 3                | 15          | 84.2            | 1370       | 1823       | 1646       |
| 8     | 2                | 11          | 70.4            | 1635       | 1854       | -          |
| 9     | 3                | 18          | 91.3            | 1334       | 1136       | 1341       |
| 10    | 1                | 10          | 66.3            | 1360       | -          | -          |
| 11    | 3                | 18          | 93              | 1271       | 1057       | 1929       |
| 12    | 3                | 18          | 93.7            | 1906       | 1497       | 1479       |
| 13    | 3                | 16          | 85.8            | 1546       | 1015       | 1718       |
| 14    | 2                | 11          | 70.8            | 1001       | 1005       | -          |
| 15    | 1                | 7           | 57              | 1685       | -          | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

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     | 3                | 19          | 94.3            | 1920       | 1954       | 1181       |
| 2     | 1                | 8           | 60.5            | 1922       | -          | -          |
| 3     | 1                | 10          | 66.2            | 1738       | -          | -          |
| 4     | 2                | 13          | 75.3            | 1595       | 1443       | -          |
| 5     | 3                | 17          | 88.8            | 1777       | 1789       | 1150       |
| 6     | 2                | 13          | 76.4            | 1343       | 1420       | -          |
| 7     | 2                | 12          | 73.9            | 1379       | 1982       | -          |
| 8     | 3                | 18          | 91.5            | 1175       | 1221       | 1569       |
| 9     | 3                | 15          | 84              | 1238       | 1694       | 1306       |
| 10    | 3                | 17          | 89.7            | 1179       | 1628       | 1791       |
| 11    | 2                | 13          | 77.3            | 1967       | 1795       | -          |
| 12    | 3                | 19          | 94              | 1696       | 1359       | 2000       |
| 13    | 3                | 20          | 99.2            | 1788       | 1596       | 1521       |
| 14    | 2                | 13          | 77.8            | 1086       | 1165       | -          |
| 15    | 3                | 18          | 93.7            | 1753       | 1780       | 1192       |
| 16    | 3                | 19          | 95.5            | 1188       | 1853       | 1425       |
| 17    | 1                | 8           | 60.5            | 1434       | -          | -          |
| 18    | 2                | 13          | 77.9            | 1808       | 1698       | -          |
| 19    | 3                | 17          | 88.5            | 1183       | 1773       | 1187       |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

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                | 18          | 90.8            | 1878       | 1465       | 1873       |
| 2     | 3                | 16          | 86.4            | 1648       | 1415       | 1135       |
| 3     | 1                | 9           | 62.9            | 1318       | -          | -          |
| 4     | 2                | 14          | 78.7            | 1282       | 1263       | -          |
| 5     | 3                | 16          | 86.1            | 1273       | 1561       | 1501       |
| 6     | 1                | 5           | 51.8            | 1844       | -          | -          |
| 7     | 2                | 13          | 75.8            | 1442       | 1285       | -          |
| 8     | 3                | 18          | 93.2            | 1541       | 1160       | 1383       |
| 9     | 3                | 19          | 95.3            | 1448       | 1642       | 1290       |
| 10    | 3                | 19          | 95.3            | 1678       | 1589       | 1526       |
| 11    | 3                | 16          | 87.1            | 1317       | 1723       | 1293       |
| 12    | 2                | 12          | 74.8            | 1240       | 1178       | -          |
| 13    | 3                | 17          | 88.9            | 1806       | 1975       | 1935       |
| 14    | 2                | 13          | 77              | 1158       | 1932       | -          |
| 15    | 3                | 19          | 95.6            | 1191       | 1512       | 1874       |
| 16    | 3                | 16          | 85.6            | 1830       | 1737       | 1089       |
| 17    | 2                | 12          | 72.8            | 1398       | 1761       | -          |
| 18    | 1                | 7           | 56.6            | 1339       | -          | -          |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

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     | 1                | 7           | 58.1            | 1451       | -          | -          |
| 2     | 1                | 6           | 56              | 1771       | -          | -          |
| 3     | 2                | 14          | 78.6            | 1534       | 1372       | -          |
| 4     | 2                | 15          | 82.8            | 1511       | 1869       | -          |
| 5     | 2                | 14          | 81.1            | 1532       | 1266       | -          |
| 6     | 3                | 16          | 85.2            | 1758       | 1137       | 1663       |
| 7     | 1                | 8           | 59.6            | 1249       | -          | -          |
| 8     | 1                | 9           | 63.3            | 1613       | -          | -          |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

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     | 3                | 18          | 92.2            | 1711       | 1066       | 1483       |
| 2     | 3                | 16          | 85.1            | 1120       | 1108       | 1400       |
| 3     | 3                | 18          | 92.7            | 1862       | 1155       | 1305       |
| 4     | 3                | 20          | 97.7            | 1980       | 1301       | 1446       |
| 5     | 2                | 11          | 70.9            | 1007       | 1095       | -          |
| 6     | 2                | 15          | 82.4            | 1787       | 1632       | -          |
| 7     | 1                | 10          | 65.8            | 1871       | -          | -          |
| 8     | 3                | 20          | 97.3            | 1324       | 1476       | 1872       |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

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                | 14          | 80.1            | 1452       | 1746       | -          |
| 2     | 2                | 11          | 70.6            | 1827       | 1474       | -          |
| 3     | 2                | 15          | 81.4            | 1325       | 1539       | -          |
| 4     | 2                | 15          | 81.8            | 1898       | 1900       | -          |
| 5     | 2                | 14          | 80.1            | 1248       | 1524       | -          |
| 6     | 2                | 12          | 73.4            | 1092       | 1255       | -          |
| 7     | 1                | 9           | 62.9            | 1579       | -          | -          |
| 8     | 2                | 15          | 83.2            | 1276       | 1351       | -          |
| 9     | 2                | 14          | 78.6            | 1575       | 1950       | -          |
| 10    | 3                | 19          | 96.2            | 1784       | 1494       | 1003       |
| 11    | 3                | 20          | 96.9            | 1610       | 1367       | 1274       |
| 12    | 1                | 9           | 64.9            | 1915       | -          | -          |
| 13    | 3                | 17          | 88.4            | 1503       | 1876       | 1087       |
| 14    | 2                | 10          | 66.9            | 1207       | 1315       | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

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     | 1                | 6           | 53.5            | 1670       | -          | -          |
| 2     | 3                | 18          | 92.2            | 1893       | 1908       | 1164       |
| 3     | 2                | 11          | 70.8            | 1193       | 1828       | -          |
| 4     | 3                | 17          | 88.8            | 1514       | 1634       | 1313       |
| 5     | 1                | 5           | 52.4            | 1229       | -          | -          |
| 6     | 2                | 12          | 71.9            | 1969       | 1038       | -          |
| 7     | 1                | 8           | 59.9            | 1952       | -          | -          |
| 8     | 1                | 7           | 57.9            | 1101       | -          | -          |
| 9     | 1                | 6           | 55.2            | 1022       | -          | -          |
| 10    | 2                | 13          | 77.7            | 1149       | 1006       | -          |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

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     | 2                | 11          | 69.1            | 1525       | 1197       | -          |
| 2     | 2                | 12          | 72.7            | 1976       | 1838       | -          |
| 3     | 1                | 8           | 59.7            | 1849       | -          | -          |
| 4     | 3                | 18          | 90.8            | 1080       | 1913       | 1767       |
| 5     | 1                | 5           | 50.5            | 1972       | -          | -          |
| 6     | 3                | 20          | 97.7            | 1310       | 1867       | 1427       |
| 7     | 2                | 12          | 74.4            | 1910       | 1819       | -          |
| 8     | 1                | 6           | 54.6            | 1277       | -          | -          |
| 9     | 1                | 7           | 59              | 1481       | -          | -          |
| 10    | 3                | 18          | 91.6            | 1023       | 1024       | 1079       |
| 11    | 3                | 20          | 97              | 1410       | 1914       | 1480       |
| 12    | 2                | 12          | 75              | 1781       | 1886       | -          |
| 13    | 1                | 6           | 54.2            | 1505       | -          | -          |
| 14    | 3                | 18          | 91.1            | 1008       | 1363       | 1298       |
| 15    | 2                | 13          | 76.6            | 1567       | 1948       | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

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     | 3                | 16          | 84.8            | 1556       | 1510       | 1182       |
| 2     | 3                | 18          | 93.1            | 1956       | 1458       | 1386       |
| 3     | 3                | 19          | 95.4            | 1388       | 1704       | 1826       |
| 4     | 1                | 6           | 54.2            | 1962       | -          | -          |
| 5     | 3                | 16          | 84.9            | 1812       | 1706       | 1362       |
| 6     | 3                | 17          | 88.3            | 1555       | 1031       | 1056       |
| 7     | 3                | 19          | 94.8            | 1852       | 1292       | 1652       |
| 8     | 2                | 12          | 74.9            | 1084       | 1752       | -          |
| 9     | 2                | 13          | 75.3            | 1210       | 1328       | -          |
| 10    | 2                | 15          | 81.5            | 1937       | 1349       | -          |
| 11    | 1                | 5           | 50.4            | 1649       | -          | -          |
| 12    | 2                | 13          | 76.8            | 1338       | 1270       | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

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          | 82.1            | 1076       | 1629       | -          |
| 2     | 2                | 14          | 80              | 1230       | 1257       | -          |
| 3     | 3                | 19          | 93.9            | 1994       | 1447       | 1690       |
| 4     | 3                | 16          | 87.4            | 1507       | 1645       | 1365       |
| 5     | 2                | 12          | 72.1            | 1768       | 1897       | -          |
| 6     | 1                | 9           | 65.3            | 1747       | -          | -          |
| 7     | 1                | 6           | 53.7            | 1540       | -          | -          |
| 8     | 1                | 9           | 62.7            | 1423       | -          | -          |
| 9     | 1                | 7           | 57.4            | 1829       | -          | -          |
| 10    | 1                | 9           | 63.7            | 1113       | -          | -          |
| 11    | 2                | 12          | 72.2            | 1604       | 1122       | -          |
| 12    | 2                | 15          | 82.7            | 1396       | 1860       | -          |
| 13    | 2                | 14          | 81              | 1047       | 1232       | -          |
| 14    | 2                | 11          | 71.8            | 1026       | 1785       | -          |
| 15    | 3                | 18          | 92.3            | 1358       | 1695       | 1605       |
| 16    | 1                | 6           | 55.9            | 1417       | -          | -          |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

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     | 3                | 19          | 96.9            | 1709       | 1687       | 1743       |
| 2     | 2                | 11          | 69.9            | 1252       | 1414       | -          |
| 3     | 2                | 14          | 78.6            | 1647       | 1043       | -          |
| 4     | 3                | 17          | 88              | 1180       | 1884       | 1283       |
| 5     | 2                | 14          | 79.8            | 1656       | 1061       | -          |
| 6     | 1                | 8           | 62.2            | 1662       | -          | -          |
| 7     | 2                | 10          | 67.7            | 1224       | 1199       | -          |
| 8     | 2                | 14          | 78.9            | 1655       | 1250       | -          |
| 9     | 1                | 9           | 64.6            | 1214       | -          | -          |
| 10    | 1                | 6           | 53.7            | 1380       | -          | -          |
| 11    | 2                | 11          | 70.4            | 1401       | 1364       | -          |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

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     | 3                | 17          | 89.4            | 1170       | 1109       | 1565       |
| 2     | 2                | 12          | 74.3            | 1243       | 1059       | -          |
| 3     | 3                | 20          | 97.8            | 1697       | 1946       | 1712       |
| 4     | 3                | 16          | 84.5            | 1800       | 1688       | 1245       |
| 5     | 1                | 7           | 59.2            | 1689       | -          | -          |
| 6     | 1                | 5           | 50.1            | 1477       | -          | -          |
| 7     | 2                | 11          | 70.8            | 1840       | 1942       | -          |
| 8     | 3                | 18          | 92.4            | 1174       | 1028       | 1094       |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

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                | 12          | 74.6            | 1792       | 1593       | -          |
| 2     | 1                | 9           | 65.1            | 1117       | -          | -          |
| 3     | 1                | 6           | 54.2            | 1538       | -          | -          |
| 4     | 2                | 12          | 74.9            | 1716       | 1999       | -          |
| 5     | 1                | 8           | 59.6            | 1627       | -          | -          |
| 6     | 1                | 5           | 50.5            | 1337       | -          | -          |
| 7     | 2                | 14          | 78.3            | 1239       | 1562       | -          |
| 8     | 2                | 11          | 69.1            | 1903       | 1190       | -          |
| 9     | 2                | 11          | 71              | 1965       | 1717       | -          |
| 10    | 2                | 11          | 70.9            | 1226       | 1762       | -          |
| 11    | 1                | 9           | 62.7            | 1345       | -          | -          |
| 12    | 2                | 12          | 73.2            | 1770       | 1493       | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



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## B.2 The Frequency Hopping Radar pattern

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.410G         | 2    | 5.519G         | 3    | 5.625G         | 4    | 5.613G         |
| 5  | 5.679G         | 6    | 5.670G         | 7    | 5.341G         | 8    | 5.473G         |
| 9  | 5.588G         | 10   | 5.620G         | 11   | 5.379G         | 12   | 5.546G         |
| 13   | 5.335G         | 14   | 5.723G         | 15   | 5.529G         | 16   | 5.556G         |
| 17   | 5.271G         | 18   | 5.506G         | 19   | 5.487G         | 20   | 5.345G         |
| 21   | 5.689G         | 22   | 5.387G         | 23   | 5.718G         | 24   | 5.666G         |
| 25   | 5.342G         | 26   | 5.467G         | 27   | 5.577G         | 28   | 5.367G         |
| 29   | 5.326G         | 30   | 5.420G         | 31   | 5.376G         | 32   | 5.542G         |
| 33   | 5.520G         | 34   | 5.548G         | 35   | 5.627G         | 36   | 5.526G         |
| 37   | 5.610G         | 38   | 5.436G         | 39   | 5.499G         | 40   | 5.711G         |
| 41   | 5.389G         | 42   | 5.647G         | 43   | 5.492G         | 44   | 5.595G         |
| 45   | 5.291G         | 46   | 5.684G         | 47   | 5.416G         | 48   | 5.686G         |
| 49   | 5.488G         | 50   | 5.302G         | 51   | 5.337G         | 52   | 5.671G         |
| 53   | 5.280G         | 54   | 5.462G         | 55   | 5.349G         | 56   | 5.682G         |
| 57   | 5.463G         | 58   | 5.293G         | 59   | 5.532G         | 60   | 5.581G         |
| 61   | 5.437G         | 62   | 5.318G         | 63   | 5.633G         | 64   | 5.411G         |
| 65   | 5.434G         | 66   | 5.295G         | 67   | 5.320G         | 68   | 5.384G         |
| 69   | 5.364G         | 70   | 5.297G         | 71   | 5.390G         | 72   | 5.609G         |
| 73   | 5.517G         | 74   | 5.468G         | 75   | 5.484G         | 76   | 5.574G         |
| 77   | 5.370G         | 78   | 5.299G         | 79   | 5.397G         | 80   | 5.692G         |
| 81   | 5.533G         | 82   | 5.663G         | 83   | 5.641G         | 84   | 5.653G         |
| 85   | 5.553G         | 86   | 5.530G         | 87   | 5.569G         | 88   | 5.564G         |
| 89   | 5.538G         | 90   | 5.695G         | 91   | 5.714G         | 92   | 5.419G         |
| 93   | 5.350G         | 94   | 5.491G         | 95   | 5.705G         | 96   | 5.576G         |
| 97   | 5.709G         | 98   | 5.309G         | 99   | 5.452G         | 100  | 5.356G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.608G         | 2    | 5.724G         | 3    | 5.433G         | 4    | 5.403G         |
| 5  | 5.500G         | 6    | 5.535G         | 7    | 5.640G         | 8    | 5.725G         |
| 9  | 5.450G         | 10   | 5.483G         | 11   | 5.477G         | 12   | 5.549G         |
| 13   | 5.374G         | 14   | 5.556G         | 15   | 5.659G         | 16   | 5.601G         |
| 17   | 5.597G         | 18   | 5.464G         | 19   | 5.409G         | 20   | 5.588G         |
| 21   | 5.451G         | 22   | 5.499G         | 23   | 5.316G         | 24   | 5.427G         |
| 25   | 5.339G         | 26   | 5.511G         | 27   | 5.583G         | 28   | 5.332G         |
| 29   | 5.669G         | 30   | 5.569G         | 31   | 5.554G         | 32   | 5.701G         |
| 33   | 5.559G         | 34   | 5.356G         | 35   | 5.461G         | 36   | 5.628G         |
| 37   | 5.469G         | 38   | 5.488G         | 39   | 5.497G         | 40   | 5.380G         |
| 41   | 5.473G         | 42   | 5.618G         | 43   | 5.492G         | 44   | 5.691G         |
| 45   | 5.518G         | 46   | 5.688G         | 47   | 5.348G         | 48   | 5.615G         |
| 49   | 5.441G         | 50   | 5.577G         | 51   | 5.591G         | 52   | 5.370G         |
| 53   | 5.325G         | 54   | 5.558G         | 55   | 5.439G         | 56   | 5.414G         |
| 57   | 5.684G         | 58   | 5.697G         | 59   | 5.435G         | 60   | 5.668G         |
| 61   | 5.381G         | 62   | 5.598G         | 63   | 5.457G         | 64   | 5.566G         |
| 65   | 5.283G         | 66   | 5.539G         | 67   | 5.656G         | 68   | 5.649G         |
| 69   | 5.607G         | 70   | 5.338G         | 71   | 5.680G         | 72   | 5.563G         |
| 73   | 5.318G         | 74   | 5.296G         | 75   | 5.573G         | 76   | 5.561G         |
| 77   | 5.543G         | 78   | 5.719G         | 79   | 5.675G         | 80   | 5.715G         |
| 81   | 5.300G         | 82   | 5.449G         | 83   | 5.671G         | 84   | 5.695G         |
| 85   | 5.594G         | 86   | 5.513G         | 87   | 5.367G         | 88   | 5.661G         |
| 89   | 5.306G         | 90   | 5.480G         | 91   | 5.489G         | 92   | 5.626G         |
| 93   | 5.503G         | 94   | 5.459G         | 95   | 5.328G         | 96   | 5.392G         |
| 97   | 5.679G         | 98   | 5.331G         | 99   | 5.692G         | 100  | 5.431G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.578G         | 2    | 5.445G         | 3    | 5.427G         | 4    | 5.409G         |
| 5  | 5.381G         | 6    | 5.632G         | 7    | 5.686G         | 8    | 5.472G         |
| 9  | 5.535G         | 10   | 5.429G         | 11   | 5.617G         | 12   | 5.643G         |
| 13   | 5.538G         | 14   | 5.311G         | 15   | 5.304G         | 16   | 5.498G         |
| 17   | 5.706G         | 18   | 5.307G         | 19   | 5.319G         | 20   | 5.687G         |
| 21   | 5.673G         | 22   | 5.626G         | 23   | 5.705G         | 24   | 5.709G         |
| 25   | 5.608G         | 26   | 5.587G         | 27   | 5.557G         | 28   | 5.633G         |
| 29   | 5.537G         | 30   | 5.357G         | 31   | 5.525G         | 32   | 5.425G         |
| 33   | 5.703G         | 34   | 5.628G         | 35   | 5.539G         | 36   | 5.474G         |
| 37   | 5.386G         | 38   | 5.291G         | 39   | 5.326G         | 40   | 5.495G         |
| 41   | 5.591G         | 42   | 5.528G         | 43   | 5.543G         | 44   | 5.612G         |
| 45   | 5.295G         | 46   | 5.458G         | 47   | 5.561G         | 48   | 5.689G         |
| 49   | 5.559G         | 50   | 5.656G         | 51   | 5.725G         | 52   | 5.397G         |
| 53   | 5.317G         | 54   | 5.594G         | 55   | 5.659G         | 56   | 5.580G         |
| 57   | 5.674G         | 58   | 5.642G         | 59   | 5.526G         | 60   | 5.596G         |
| 61   | 5.671G         | 62   | 5.493G         | 63   | 5.344G         | 64   | 5.421G         |
| 65   | 5.469G         | 66   | 5.430G         | 67   | 5.424G         | 68   | 5.569G         |
| 69   | 5.488G         | 70   | 5.646G         | 71   | 5.505G         | 72   | 5.470G         |
| 73   | 5.634G         | 74   | 5.571G         | 75   | 5.655G         | 76   | 5.604G         |
| 77   | 5.277G         | 78   | 5.371G         | 79   | 5.585G         | 80   | 5.565G         |
| 81   | 5.408G         | 82   | 5.694G         | 83   | 5.372G         | 84   | 5.597G         |
| 85   | 5.316G         | 86   | 5.420G         | 87   | 5.602G         | 88   | 5.588G         |
| 89   | 5.522G         | 90   | 5.305G         | 91   | 5.471G         | 92   | 5.521G         |
| 93   | 5.342G         | 94   | 5.695G         | 95   | 5.630G         | 96   | 5.666G         |
| 97   | 5.406G         | 98   | 5.484G         | 99   | 5.468G         | 100  | 5.452G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.481G         | 2    | 5.284G         | 3    | 5.711G         | 4    | 5.574G         |
| 5  | 5.585G         | 6    | 5.277G         | 7    | 5.648G         | 8    | 5.699G         |
| 9  | 5.534G         | 10   | 5.670G         | 11   | 5.429G         | 12   | 5.462G         |
| 13   | 5.306G         | 14   | 5.604G         | 15   | 5.643G         | 16   | 5.603G         |
| 17   | 5.587G         | 18   | 5.641G         | 19   | 5.490G         | 20   | 5.572G         |
| 21   | 5.455G         | 22   | 5.692G         | 23   | 5.519G         | 24   | 5.716G         |
| 25   | 5.269G         | 26   | 5.443G         | 27   | 5.707G         | 28   | 5.498G         |
| 29   | 5.515G         | 30   | 5.679G         | 31   | 5.382G         | 32   | 5.497G         |
| 33   | 5.722G         | 34   | 5.568G         | 35   | 5.630G         | 36   | 5.345G         |
| 37   | 5.618G         | 38   | 5.530G         | 39   | 5.384G         | 40   | 5.657G         |
| 41   | 5.614G         | 42   | 5.398G         | 43   | 5.371G         | 44   | 5.344G         |
| 45   | 5.431G         | 46   | 5.710G         | 47   | 5.588G         | 48   | 5.414G         |
| 49   | 5.377G         | 50   | 5.336G         | 51   | 5.691G         | 52   | 5.454G         |
| 53   | 5.308G         | 54   | 5.712G         | 55   | 5.453G         | 56   | 5.566G         |
| 57   | 5.703G         | 58   | 5.315G         | 59   | 5.627G         | 60   | 5.430G         |
| 61   | 5.441G         | 62   | 5.613G         | 63   | 5.554G         | 64   | 5.370G         |
| 65   | 5.545G         | 66   | 5.719G         | 67   | 5.391G         | 68   | 5.659G         |
| 69   | 5.658G         | 70   | 5.645G         | 71   | 5.388G         | 72   | 5.602G         |
| 73   | 5.297G         | 74   | 5.295G         | 75   | 5.724G         | 76   | 5.557G         |
| 77   | 5.464G         | 78   | 5.721G         | 79   | 5.350G         | 80   | 5.525G         |
| 81   | 5.697G         | 82   | 5.694G         | 83   | 5.549G         | 84   | 5.363G         |
| 85   | 5.535G         | 86   | 5.474G         | 87   | 5.400G         | 88   | 5.717G         |
| 89   | 5.526G         | 90   | 5.672G         | 91   | 5.396G         | 92   | 5.653G         |
| 93   | 5.678G         | 94   | 5.322G         | 95   | 5.348G         | 96   | 5.550G         |
| 97   | 5.598G         | 98   | 5.411G         | 99   | 5.330G         | 100  | 5.379G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.316G         | 2    | 5.320G         | 3    | 5.628G         | 4    | 5.439G         |
| 5  | 5.711G         | 6    | 5.577G         | 7    | 5.385G         | 8    | 5.714G         |
| 9  | 5.568G         | 10   | 5.495G         | 11   | 5.391G         | 12   | 5.507G         |
| 13   | 5.640G         | 14   | 5.538G         | 15   | 5.603G         | 16   | 5.614G         |
| 17   | 5.308G         | 18   | 5.670G         | 19   | 5.716G         | 20   | 5.654G         |
| 21   | 5.646G         | 22   | 5.481G         | 23   | 5.416G         | 24   | 5.647G         |
| 25   | 5.560G         | 26   | 5.452G         | 27   | 5.332G         | 28   | 5.588G         |
| 29   | 5.462G         | 30   | 5.546G         | 31   | 5.593G         | 32   | 5.665G         |
| 33   | 5.666G         | 34   | 5.408G         | 35   | 5.500G         | 36   | 5.387G         |
| 37   | 5.353G         | 38   | 5.562G         | 39   | 5.576G         | 40   | 5.344G         |
| 41   | 5.352G         | 42   | 5.371G         | 43   | 5.521G         | 44   | 5.710G         |
| 45   | 5.339G         | 46   | 5.706G         | 47   | 5.691G         | 48   | 5.673G         |
| 49   | 5.510G         | 50   | 5.358G         | 51   | 5.502G         | 52   | 5.386G         |
| 53   | 5.721G         | 54   | 5.407G         | 55   | 5.605G         | 56   | 5.367G         |
| 57   | 5.719G         | 58   | 5.446G         | 59   | 5.450G         | 60   | 5.414G         |
| 61   | 5.636G         | 62   | 5.312G         | 63   | 5.724G         | 64   | 5.342G         |
| 65   | 5.551G         | 66   | 5.340G         | 67   | 5.708G         | 68   | 5.693G         |
| 69   | 5.530G         | 70   | 5.655G         | 71   | 5.697G         | 72   | 5.554G         |
| 73   | 5.337G         | 74   | 5.637G         | 75   | 5.672G         | 76   | 5.469G         |
| 77   | 5.270G         | 78   | 5.348G         | 79   | 5.376G         | 80   | 5.458G         |
| 81   | 5.484G         | 82   | 5.504G         | 83   | 5.649G         | 84   | 5.519G         |
| 85   | 5.589G         | 86   | 5.595G         | 87   | 5.550G         | 88   | 5.528G         |
| 89   | 5.493G         | 90   | 5.431G         | 91   | 5.499G         | 92   | 5.690G         |
| 93   | 5.698G         | 94   | 5.535G         | 95   | 5.419G         | 96   | 5.619G         |
| 97   | 5.410G         | 98   | 5.540G         | 99   | 5.611G         | 100  | 5.539G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.646G         | 2    | 5.713G         | 3    | 5.416G         | 4    | 5.578G         |
| 5  | 5.312G         | 6    | 5.484G         | 7    | 5.506G         | 8    | 5.696G         |
| 9  | 5.679G         | 10   | 5.426G         | 11   | 5.695G         | 12   | 5.687G         |
| 13   | 5.534G         | 14   | 5.657G         | 15   | 5.305G         | 16   | 5.586G         |
| 17   | 5.478G         | 18   | 5.562G         | 19   | 5.708G         | 20   | 5.565G         |
| 21   | 5.666G         | 22   | 5.514G         | 23   | 5.706G         | 24   | 5.567G         |
| 25   | 5.694G         | 26   | 5.541G         | 27   | 5.369G         | 28   | 5.532G         |
| 29   | 5.542G         | 30   | 5.414G         | 31   | 5.618G         | 32   | 5.492G         |
| 33   | 5.643G         | 34   | 5.675G         | 35   | 5.455G         | 36   | 5.388G         |
| 37   | 5.667G         | 38   | 5.463G         | 39   | 5.393G         | 40   | 5.526G         |
| 41   | 5.286G         | 42   | 5.389G         | 43   | 5.411G         | 44   | 5.645G         |
| 45   | 5.573G         | 46   | 5.406G         | 47   | 5.648G         | 48   | 5.342G         |
| 49   | 5.536G         | 50   | 5.585G         | 51   | 5.652G         | 52   | 5.709G         |
| 53   | 5.460G         | 54   | 5.655G         | 55   | 5.418G         | 56   | 5.650G         |
| 57   | 5.291G         | 58   | 5.343G         | 59   | 5.446G         | 60   | 5.465G         |
| 61   | 5.704G         | 62   | 5.654G         | 63   | 5.380G         | 64   | 5.504G         |
| 65   | 5.396G         | 66   | 5.356G         | 67   | 5.584G         | 68   | 5.711G         |
| 69   | 5.690G         | 70   | 5.507G         | 71   | 5.619G         | 72   | 5.495G         |
| 73   | 5.289G         | 74   | 5.686G         | 75   | 5.540G         | 76   | 5.400G         |
| 77   | 5.445G         | 78   | 5.524G         | 79   | 5.512G         | 80   | 5.415G         |
| 81   | 5.405G         | 82   | 5.627G         | 83   | 5.344G         | 84   | 5.486G         |
| 85   | 5.613G         | 86   | 5.665G         | 87   | 5.386G         | 88   | 5.564G         |
| 89   | 5.510G         | 90   | 5.568G         | 91   | 5.637G         | 92   | 5.630G         |
| 93   | 5.716G         | 94   | 5.642G         | 95   | 5.499G         | 96   | 5.683G         |
| 97   | 5.520G         | 98   | 5.336G         | 99   | 5.572G         | 100  | 5.582G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.547G         | 2    | 5.527G         | 3    | 5.514G         | 4    | 5.659G         |
| 5  | 5.536G         | 6    | 5.650G         | 7    | 5.351G         | 8    | 5.504G         |
| 9  | 5.285G         | 10   | 5.537G         | 11   | 5.560G         | 12   | 5.381G         |
| 13   | 5.692G         | 14   | 5.505G         | 15   | 5.528G         | 16   | 5.548G         |
| 17   | 5.433G         | 18   | 5.355G         | 19   | 5.311G         | 20   | 5.705G         |
| 21   | 5.507G         | 22   | 5.518G         | 23   | 5.558G         | 24   | 5.437G         |
| 25   | 5.314G         | 26   | 5.590G         | 27   | 5.328G         | 28   | 5.357G         |
| 29   | 5.554G         | 30   | 5.582G         | 31   | 5.310G         | 32   | 5.377G         |
| 33   | 5.319G         | 34   | 5.631G         | 35   | 5.686G         | 36   | 5.529G         |
| 37   | 5.589G         | 38   | 5.332G         | 39   | 5.470G         | 40   | 5.426G         |
| 41   | 5.485G         | 42   | 5.603G         | 43   | 5.427G         | 44   | 5.464G         |
| 45   | 5.523G         | 46   | 5.342G         | 47   | 5.394G         | 48   | 5.450G         |
| 49   | 5.281G         | 50   | 5.656G         | 51   | 5.556G         | 52   | 5.373G         |
| 53   | 5.352G         | 54   | 5.379G         | 55   | 5.654G         | 56   | 5.706G         |
| 57   | 5.578G         | 58   | 5.720G         | 59   | 5.391G         | 60   | 5.700G         |
| 61   | 5.708G         | 62   | 5.306G         | 63   | 5.543G         | 64   | 5.725G         |
| 65   | 5.598G         | 66   | 5.640G         | 67   | 5.701G         | 68   | 5.662G         |
| 69   | 5.614G         | 70   | 5.432G         | 71   | 5.335G         | 72   | 5.415G         |
| 73   | 5.441G         | 74   | 5.509G         | 75   | 5.539G         | 76   | 5.615G         |
| 77   | 5.288G         | 78   | 5.524G         | 79   | 5.326G         | 80   | 5.522G         |
| 81   | 5.620G         | 82   | 5.619G         | 83   | 5.473G         | 84   | 5.513G         |
| 85   | 5.330G         | 86   | 5.502G         | 87   | 5.404G         | 88   | 5.648G         |
| 89   | 5.682G         | 90   | 5.646G         | 91   | 5.569G         | 92   | 5.511G         |
| 93   | 5.345G         | 94   | 5.478G         | 95   | 5.363G         | 96   | 5.446G         |
| 97   | 5.664G         | 98   | 5.577G         | 99   | 5.336G         | 100  | 5.444G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.542G         | 2    | 5.626G         | 3    | 5.572G         | 4    | 5.351G         |
| 5  | 5.527G         | 6    | 5.698G         | 7    | 5.335G         | 8    | 5.539G         |
| 9  | 5.520G         | 10   | 5.330G         | 11   | 5.484G         | 12   | 5.573G         |
| 13   | 5.719G         | 14   | 5.522G         | 15   | 5.644G         | 16   | 5.534G         |
| 17   | 5.700G         | 18   | 5.622G         | 19   | 5.696G         | 20   | 5.530G         |
| 21   | 5.294G         | 22   | 5.489G         | 23   | 5.368G         | 24   | 5.708G         |
| 25   | 5.403G         | 26   | 5.373G         | 27   | 5.332G         | 28   | 5.646G         |
| 29   | 5.722G         | 30   | 5.326G         | 31   | 5.478G         | 32   | 5.570G         |
| 33   | 5.291G         | 34   | 5.619G         | 35   | 5.560G         | 36   | 5.587G         |
| 37   | 5.637G         | 38   | 5.524G         | 39   | 5.467G         | 40   | 5.536G         |
| 41   | 5.491G         | 42   | 5.613G         | 43   | 5.497G         | 44   | 5.517G         |
| 45   | 5.381G         | 46   | 5.466G         | 47   | 5.480G         | 48   | 5.647G         |
| 49   | 5.319G         | 50   | 5.347G         | 51   | 5.599G         | 52   | 5.577G         |
| 53   | 5.691G         | 54   | 5.689G         | 55   | 5.416G         | 56   | 5.341G         |
| 57   | 5.590G         | 58   | 5.297G         | 59   | 5.420G         | 60   | 5.395G         |
| 61   | 5.549G         | 62   | 5.437G         | 63   | 5.707G         | 64   | 5.406G         |
| 65   | 5.299G         | 66   | 5.555G         | 67   | 5.688G         | 68   | 5.374G         |
| 69   | 5.430G         | 70   | 5.630G         | 71   | 5.602G         | 72   | 5.704G         |
| 73   | 5.458G         | 74   | 5.358G         | 75   | 5.589G         | 76   | 5.462G         |
| 77   | 5.623G         | 78   | 5.448G         | 79   | 5.607G         | 80   | 5.439G         |
| 81   | 5.324G         | 82   | 5.455G         | 83   | 5.411G         | 84   | 5.449G         |
| 85   | 5.476G         | 86   | 5.377G         | 87   | 5.714G         | 88   | 5.544G         |
| 89   | 5.429G         | 90   | 5.564G         | 91   | 5.664G         | 92   | 5.598G         |
| 93   | 5.597G         | 94   | 5.490G         | 95   | 5.494G         | 96   | 5.653G         |
| 97   | 5.559G         | 98   | 5.671G         | 99   | 5.724G         | 100  | 5.515G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.612G         | 2    | 5.285G         | 3    | 5.471G         | 4    | 5.676G         |
| 5  | 5.480G         | 6    | 5.522G         | 7    | 5.434G         | 8    | 5.619G         |
| 9  | 5.505G         | 10   | 5.332G         | 11   | 5.350G         | 12   | 5.558G         |
| 13   | 5.464G         | 14   | 5.555G         | 15   | 5.679G         | 16   | 5.400G         |
| 17   | 5.418G         | 18   | 5.699G         | 19   | 5.545G         | 20   | 5.710G         |
| 21   | 5.315G         | 22   | 5.672G         | 23   | 5.503G         | 24   | 5.673G         |
| 25   | 5.675G         | 26   | 5.339G         | 27   | 5.570G         | 28   | 5.683G         |
| 29   | 5.613G         | 30   | 5.336G         | 31   | 5.547G         | 32   | 5.532G         |
| 33   | 5.576G         | 34   | 5.556G         | 35   | 5.691G         | 36   | 5.456G         |
| 37   | 5.552G         | 38   | 5.506G         | 39   | 5.530G         | 40   | 5.665G         |
| 41   | 5.415G         | 42   | 5.514G         | 43   | 5.661G         | 44   | 5.664G         |
| 45   | 5.272G         | 46   | 5.632G         | 47   | 5.410G         | 48   | 5.377G         |
| 49   | 5.698G         | 50   | 5.386G         | 51   | 5.406G         | 52   | 5.438G         |
| 53   | 5.508G         | 54   | 5.641G         | 55   | 5.588G         | 56   | 5.706G         |
| 57   | 5.479G         | 58   | 5.610G         | 59   | 5.660G         | 60   | 5.529G         |
| 61   | 5.498G         | 62   | 5.358G         | 63   | 5.688G         | 64   | 5.447G         |
| 65   | 5.711G         | 66   | 5.308G         | 67   | 5.340G         | 68   | 5.589G         |
| 69   | 5.510G         | 70   | 5.296G         | 71   | 5.355G         | 72   | 5.481G         |
| 73   | 5.380G         | 74   | 5.364G         | 75   | 5.725G         | 76   | 5.436G         |
| 77   | 5.310G         | 78   | 5.484G         | 79   | 5.603G         | 80   | 5.483G         |
| 81   | 5.709G         | 82   | 5.488G         | 83   | 5.708G         | 84   | 5.644G         |
| 85   | 5.575G         | 86   | 5.368G         | 87   | 5.568G         | 88   | 5.639G         |
| 89   | 5.564G         | 90   | 5.452G         | 91   | 5.636G         | 92   | 5.651G         |
| 93   | 5.504G         | 94   | 5.617G         | 95   | 5.458G         | 96   | 5.678G         |
| 97   | 5.302G         | 98   | 5.318G         | 99   | 5.650G         | 100  | 5.658G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.391G         | 2    | 5.667G         | 3    | 5.695G         | 4    | 5.353G         |
| 5  | 5.324G         | 6    | 5.311G         | 7    | 5.415G         | 8    | 5.426G         |
| 9  | 5.532G         | 10   | 5.518G         | 11   | 5.349G         | 12   | 5.687G         |
| 13   | 5.379G         | 14   | 5.501G         | 15   | 5.440G         | 16   | 5.407G         |
| 17   | 5.538G         | 18   | 5.498G         | 19   | 5.722G         | 20   | 5.556G         |
| 21   | 5.350G         | 22   | 5.600G         | 23   | 5.341G         | 24   | 5.360G         |
| 25   | 5.459G         | 26   | 5.486G         | 27   | 5.594G         | 28   | 5.390G         |
| 29   | 5.572G         | 30   | 5.456G         | 31   | 5.553G         | 32   | 5.702G         |
| 33   | 5.623G         | 34   | 5.507G         | 35   | 5.566G         | 36   | 5.575G         |
| 37   | 5.468G         | 38   | 5.313G         | 39   | 5.413G         | 40   | 5.421G         |
| 41   | 5.580G         | 42   | 5.285G         | 43   | 5.666G         | 44   | 5.653G         |
| 45   | 5.460G         | 46   | 5.550G         | 47   | 5.472G         | 48   | 5.551G         |
| 49   | 5.530G         | 50   | 5.684G         | 51   | 5.375G         | 52   | 5.642G         |
| 53   | 5.592G         | 54   | 5.447G         | 55   | 5.631G         | 56   | 5.620G         |
| 57   | 5.424G         | 58   | 5.310G         | 59   | 5.495G         | 60   | 5.725G         |
| 61   | 5.582G         | 62   | 5.537G         | 63   | 5.372G         | 64   | 5.452G         |
| 65   | 5.275G         | 66   | 5.487G         | 67   | 5.640G         | 68   | 5.597G         |
| 69   | 5.461G         | 70   | 5.445G         | 71   | 5.693G         | 72   | 5.678G         |
| 73   | 5.428G         | 74   | 5.672G         | 75   | 5.608G         | 76   | 5.660G         |
| 77   | 5.647G         | 78   | 5.369G         | 79   | 5.525G         | 80   | 5.609G         |
| 81   | 5.505G         | 82   | 5.535G         | 83   | 5.401G         | 84   | 5.576G         |
| 85   | 5.384G         | 86   | 5.659G         | 87   | 5.715G         | 88   | 5.406G         |
| 89   | 5.272G         | 90   | 5.347G         | 91   | 5.464G         | 92   | 5.675G         |
| 93   | 5.694G         | 94   | 5.457G         | 95   | 5.476G         | 96   | 5.451G         |
| 97   | 5.309G         | 98   | 5.711G         | 99   | 5.540G         | 100  | 5.669G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.558G         | 2    | 5.638G         | 3    | 5.681G         | 4    | 5.494G         |
| 5  | 5.580G         | 6    | 5.604G         | 7    | 5.591G         | 8    | 5.513G         |
| 9  | 5.522G         | 10   | 5.287G         | 11   | 5.366G         | 12   | 5.716G         |
| 13   | 5.623G         | 14   | 5.333G         | 15   | 5.566G         | 16   | 5.554G         |
| 17   | 5.424G         | 18   | 5.628G         | 19   | 5.524G         | 20   | 5.540G         |
| 21   | 5.404G         | 22   | 5.573G         | 23   | 5.632G         | 24   | 5.535G         |
| 25   | 5.398G         | 26   | 5.305G         | 27   | 5.673G         | 28   | 5.525G         |
| 29   | 5.696G         | 30   | 5.386G         | 31   | 5.397G         | 32   | 5.456G         |
| 33   | 5.618G         | 34   | 5.479G         | 35   | 5.542G         | 36   | 5.354G         |
| 37   | 5.586G         | 38   | 5.395G         | 39   | 5.596G         | 40   | 5.661G         |
| 41   | 5.298G         | 42   | 5.400G         | 43   | 5.550G         | 44   | 5.508G         |
| 45   | 5.686G         | 46   | 5.367G         | 47   | 5.472G         | 48   | 5.597G         |
| 49   | 5.682G         | 50   | 5.572G         | 51   | 5.441G         | 52   | 5.437G         |
| 53   | 5.268G         | 54   | 5.636G         | 55   | 5.709G         | 56   | 5.688G         |
| 57   | 5.603G         | 58   | 5.663G         | 59   | 5.326G         | 60   | 5.626G         |
| 61   | 5.309G         | 62   | 5.561G         | 63   | 5.658G         | 64   | 5.347G         |
| 65   | 5.284G         | 66   | 5.677G         | 67   | 5.567G         | 68   | 5.702G         |
| 69   | 5.291G         | 70   | 5.531G         | 71   | 5.413G         | 72   | 5.530G         |
| 73   | 5.318G         | 74   | 5.652G         | 75   | 5.577G         | 76   | 5.499G         |
| 77   | 5.514G         | 78   | 5.651G         | 79   | 5.656G         | 80   | 5.380G         |
| 81   | 5.454G         | 82   | 5.564G         | 83   | 5.501G         | 84   | 5.537G         |
| 85   | 5.425G         | 86   | 5.392G         | 87   | 5.668G         | 88   | 5.620G         |
| 89   | 5.401G         | 90   | 5.571G         | 91   | 5.683G         | 92   | 5.670G         |
| 93   | 5.708G         | 94   | 5.515G         | 95   | 5.534G         | 96   | 5.383G         |
| 97   | 5.665G         | 98   | 5.373G         | 99   | 5.389G         | 100  | 5.361G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.369G         | 2    | 5.589G         | 3    | 5.549G         | 4    | 5.339G         |
| 5  | 5.480G         | 6    | 5.292G         | 7    | 5.399G         | 8    | 5.485G         |
| 9  | 5.301G         | 10   | 5.284G         | 11   | 5.325G         | 12   | 5.465G         |
| 13   | 5.272G         | 14   | 5.631G         | 15   | 5.315G         | 16   | 5.676G         |
| 17   | 5.595G         | 18   | 5.630G         | 19   | 5.452G         | 20   | 5.637G         |
| 21   | 5.314G         | 22   | 5.614G         | 23   | 5.429G         | 24   | 5.518G         |
| 25   | 5.279G         | 26   | 5.594G         | 27   | 5.306G         | 28   | 5.674G         |
| 29   | 5.546G         | 30   | 5.373G         | 31   | 5.588G         | 32   | 5.363G         |
| 33   | 5.383G         | 34   | 5.714G         | 35   | 5.391G         | 36   | 5.490G         |
| 37   | 5.384G         | 38   | 5.350G         | 39   | 5.439G         | 40   | 5.644G         |
| 41   | 5.333G         | 42   | 5.550G         | 43   | 5.436G         | 44   | 5.717G         |
| 45   | 5.690G         | 46   | 5.361G         | 47   | 5.561G         | 48   | 5.693G         |
| 49   | 5.416G         | 50   | 5.663G         | 51   | 5.468G         | 52   | 5.425G         |
| 53   | 5.556G         | 54   | 5.695G         | 55   | 5.687G         | 56   | 5.697G         |
| 57   | 5.624G         | 58   | 5.677G         | 59   | 5.680G         | 60   | 5.492G         |
| 61   | 5.652G         | 62   | 5.705G         | 63   | 5.645G         | 64   | 5.545G         |
| 65   | 5.600G         | 66   | 5.638G         | 67   | 5.507G         | 68   | 5.433G         |
| 69   | 5.535G         | 70   | 5.337G         | 71   | 5.675G         | 72   | 5.371G         |
| 73   | 5.671G         | 74   | 5.590G         | 75   | 5.574G         | 76   | 5.392G         |
| 77   | 5.374G         | 78   | 5.466G         | 79   | 5.515G         | 80   | 5.408G         |
| 81   | 5.434G         | 82   | 5.398G         | 83   | 5.336G         | 84   | 5.713G         |
| 85   | 5.345G         | 86   | 5.387G         | 87   | 5.418G         | 88   | 5.364G         |
| 89   | 5.273G         | 90   | 5.308G         | 91   | 5.386G         | 92   | 5.715G         |
| 93   | 5.421G         | 94   | 5.478G         | 95   | 5.603G         | 96   | 5.698G         |
| 97   | 5.598G         | 98   | 5.401G         | 99   | 5.723G         | 100  | 5.426G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.393G         | 2    | 5.419G         | 3    | 5.406G         | 4    | 5.503G         |
| 5  | 5.274G         | 6    | 5.473G         | 7    | 5.549G         | 8    | 5.358G         |
| 9  | 5.374G         | 10   | 5.426G         | 11   | 5.709G         | 12   | 5.636G         |
| 13   | 5.650G         | 14   | 5.569G         | 15   | 5.515G         | 16   | 5.630G         |
| 17   | 5.322G         | 18   | 5.302G         | 19   | 5.361G         | 20   | 5.684G         |
| 21   | 5.708G         | 22   | 5.280G         | 23   | 5.651G         | 24   | 5.626G         |
| 25   | 5.523G         | 26   | 5.724G         | 27   | 5.580G         | 28   | 5.410G         |
| 29   | 5.299G         | 30   | 5.583G         | 31   | 5.614G         | 32   | 5.653G         |
| 33   | 5.444G         | 34   | 5.402G         | 35   | 5.594G         | 36   | 5.713G         |
| 37   | 5.427G         | 38   | 5.498G         | 39   | 5.390G         | 40   | 5.520G         |
| 41   | 5.491G         | 42   | 5.640G         | 43   | 5.368G         | 44   | 5.693G         |
| 45   | 5.645G         | 46   | 5.488G         | 47   | 5.316G         | 48   | 5.559G         |
| 49   | 5.341G         | 50   | 5.463G         | 51   | 5.666G         | 52   | 5.540G         |
| 53   | 5.526G         | 54   | 5.365G         | 55   | 5.582G         | 56   | 5.680G         |
| 57   | 5.388G         | 58   | 5.466G         | 59   | 5.497G         | 60   | 5.431G         |
| 61   | 5.441G         | 62   | 5.364G         | 63   | 5.317G         | 64   | 5.545G         |
| 65   | 5.537G         | 66   | 5.670G         | 67   | 5.517G         | 68   | 5.673G         |
| 69   | 5.683G         | 70   | 5.624G         | 71   | 5.657G         | 72   | 5.521G         |
| 73   | 5.408G         | 74   | 5.586G         | 75   | 5.530G         | 76   | 5.660G         |
| 77   | 5.477G         | 78   | 5.552G         | 79   | 5.327G         | 80   | 5.353G         |
| 81   | 5.722G         | 82   | 5.538G         | 83   | 5.412G         | 84   | 5.403G         |
| 85   | 5.548G         | 86   | 5.326G         | 87   | 5.542G         | 88   | 5.672G         |
| 89   | 5.668G         | 90   | 5.539G         | 91   | 5.423G         | 92   | 5.534G         |
| 93   | 5.518G         | 94   | 5.401G         | 95   | 5.382G         | 96   | 5.644G         |
| 97   | 5.415G         | 98   | 5.336G         | 99   | 5.628G         | 100  | 5.581G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.456G         | 2    | 5.413G         | 3    | 5.672G         | 4    | 5.530G         |
| 5  | 5.702G         | 6    | 5.489G         | 7    | 5.633G         | 8    | 5.441G         |
| 9  | 5.458G         | 10   | 5.550G         | 11   | 5.676G         | 12   | 5.408G         |
| 13   | 5.600G         | 14   | 5.339G         | 15   | 5.657G         | 16   | 5.533G         |
| 17   | 5.562G         | 18   | 5.606G         | 19   | 5.551G         | 20   | 5.484G         |
| 21   | 5.474G         | 22   | 5.473G         | 23   | 5.440G         | 24   | 5.612G         |
| 25   | 5.260G         | 26   | 5.314G         | 27   | 5.340G         | 28   | 5.583G         |
| 29   | 5.618G         | 30   | 5.517G         | 31   | 5.604G         | 32   | 5.362G         |
| 33   | 5.312G         | 34   | 5.301G         | 35   | 5.411G         | 36   | 5.531G         |
| 37   | 5.321G         | 38   | 5.410G         | 39   | 5.617G         | 40   | 5.573G         |
| 41   | 5.522G         | 42   | 5.582G         | 43   | 5.454G         | 44   | 5.401G         |
| 45   | 5.399G         | 46   | 5.293G         | 47   | 5.553G         | 48   | 5.353G         |
| 49   | 5.324G         | 50   | 5.491G         | 51   | 5.592G         | 52   | 5.558G         |
| 53   | 5.709G         | 54   | 5.526G         | 55   | 5.434G         | 56   | 5.594G         |
| 57   | 5.561G         | 58   | 5.506G         | 59   | 5.364G         | 60   | 5.711G         |
| 61   | 5.291G         | 62   | 5.501G         | 63   | 5.667G         | 64   | 5.500G         |
| 65   | 5.691G         | 66   | 5.436G         | 67   | 5.420G         | 68   | 5.643G         |
| 69   | 5.563G         | 70   | 5.427G         | 71   | 5.696G         | 72   | 5.459G         |
| 73   | 5.532G         | 74   | 5.425G         | 75   | 5.378G         | 76   | 5.469G         |
| 77   | 5.651G         | 78   | 5.374G         | 79   | 5.359G         | 80   | 5.660G         |
| 81   | 5.387G         | 82   | 5.555G         | 83   | 5.624G         | 84   | 5.369G         |
| 85   | 5.285G         | 86   | 5.549G         | 87   | 5.615G         | 88   | 5.356G         |
| 89   | 5.712G         | 90   | 5.576G         | 91   | 5.482G         | 92   | 5.690G         |
| 93   | 5.278G         | 94   | 5.355G         | 95   | 5.323G         | 96   | 5.670G         |
| 97   | 5.580G         | 98   | 5.723G         | 99   | 5.540G         | 100  | 5.477G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.487G         | 2    | 5.593G         | 3    | 5.536G         | 4    | 5.422G         |
| 5  | 5.630G         | 6    | 5.302G         | 7    | 5.664G         | 8    | 5.499G         |
| 9  | 5.660G         | 10   | 5.364G         | 11   | 5.475G         | 12   | 5.408G         |
| 13   | 5.432G         | 14   | 5.429G         | 15   | 5.329G         | 16   | 5.562G         |
| 17   | 5.716G         | 18   | 5.474G         | 19   | 5.471G         | 20   | 5.409G         |
| 21   | 5.674G         | 22   | 5.591G         | 23   | 5.451G         | 24   | 5.550G         |
| 25   | 5.279G         | 26   | 5.346G         | 27   | 5.577G         | 28   | 5.587G         |
| 29   | 5.454G         | 30   | 5.725G         | 31   | 5.394G         | 32   | 5.410G         |
| 33   | 5.588G         | 34   | 5.463G         | 35   | 5.497G         | 36   | 5.378G         |
| 37   | 5.679G         | 38   | 5.418G         | 39   | 5.314G         | 40   | 5.526G         |
| 41   | 5.292G         | 42   | 5.366G         | 43   | 5.485G         | 44   | 5.720G         |
| 45   | 5.452G         | 46   | 5.702G         | 47   | 5.469G         | 48   | 5.441G         |
| 49   | 5.266G         | 50   | 5.703G         | 51   | 5.369G         | 52   | 5.345G         |
| 53   | 5.631G         | 54   | 5.333G         | 55   | 5.459G         | 56   | 5.342G         |
| 57   | 5.373G         | 58   | 5.424G         | 59   | 5.627G         | 60   | 5.483G         |
| 61   | 5.308G         | 62   | 5.698G         | 63   | 5.619G         | 64   | 5.625G         |
| 65   | 5.382G         | 66   | 5.448G         | 67   | 5.535G         | 68   | 5.673G         |
| 69   | 5.519G         | 70   | 5.426G         | 71   | 5.542G         | 72   | 5.467G         |
| 73   | 5.421G         | 74   | 5.691G         | 75   | 5.393G         | 76   | 5.495G         |
| 77   | 5.723G         | 78   | 5.532G         | 79   | 5.704G         | 80   | 5.383G         |
| 81   | 5.637G         | 82   | 5.445G         | 83   | 5.565G         | 84   | 5.527G         |
| 85   | 5.489G         | 86   | 5.583G         | 87   | 5.360G         | 88   | 5.374G         |
| 89   | 5.286G         | 90   | 5.655G         | 91   | 5.647G         | 92   | 5.602G         |
| 93   | 5.533G         | 94   | 5.620G         | 95   | 5.470G         | 96   | 5.554G         |
| 97   | 5.632G         | 98   | 5.661G         | 99   | 5.628G         | 100  | 5.368G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.537G         | 2    | 5.611G         | 3    | 5.651G         | 4    | 5.568G         |
| 5  | 5.518G         | 6    | 5.590G         | 7    | 5.512G         | 8    | 5.700G         |
| 9  | 5.351G         | 10   | 5.338G         | 11   | 5.591G         | 12   | 5.530G         |
| 13   | 5.618G         | 14   | 5.366G         | 15   | 5.543G         | 16   | 5.579G         |
| 17   | 5.522G         | 18   | 5.536G         | 19   | 5.594G         | 20   | 5.374G         |
| 21   | 5.393G         | 22   | 5.725G         | 23   | 5.659G         | 24   | 5.424G         |
| 25   | 5.352G         | 26   | 5.718G         | 27   | 5.724G         | 28   | 5.360G         |
| 29   | 5.720G         | 30   | 5.391G         | 31   | 5.348G         | 32   | 5.451G         |
| 33   | 5.686G         | 34   | 5.619G         | 35   | 5.504G         | 36   | 5.716G         |
| 37   | 5.377G         | 38   | 5.285G         | 39   | 5.436G         | 40   | 5.681G         |
| 41   | 5.407G         | 42   | 5.372G         | 43   | 5.498G         | 44   | 5.541G         |
| 45   | 5.520G         | 46   | 5.454G         | 47   | 5.383G         | 48   | 5.453G         |
| 49   | 5.329G         | 50   | 5.671G         | 51   | 5.558G         | 52   | 5.410G         |
| 53   | 5.596G         | 54   | 5.523G         | 55   | 5.547G         | 56   | 5.415G         |
| 57   | 5.563G         | 58   | 5.400G         | 59   | 5.460G         | 60   | 5.556G         |
| 61   | 5.653G         | 62   | 5.654G         | 63   | 5.656G         | 64   | 5.598G         |
| 65   | 5.574G         | 66   | 5.315G         | 67   | 5.437G         | 68   | 5.430G         |
| 69   | 5.466G         | 70   | 5.696G         | 71   | 5.447G         | 72   | 5.402G         |
| 73   | 5.440G         | 74   | 5.476G         | 75   | 5.624G         | 76   | 5.418G         |
| 77   | 5.286G         | 78   | 5.573G         | 79   | 5.608G         | 80   | 5.413G         |
| 81   | 5.306G         | 82   | 5.350G         | 83   | 5.513G         | 84   | 5.709G         |
| 85   | 5.421G         | 86   | 5.560G         | 87   | 5.511G         | 88   | 5.387G         |
| 89   | 5.632G         | 90   | 5.670G         | 91   | 5.342G         | 92   | 5.644G         |
| 93   | 5.678G         | 94   | 5.305G         | 95   | 5.426G         | 96   | 5.580G         |
| 97   | 5.324G         | 98   | 5.301G         | 99   | 5.546G         | 100  | 5.411G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.666G         | 2    | 5.702G         | 3    | 5.502G         | 4    | 5.364G         |
| 5  | 5.608G         | 6    | 5.432G         | 7    | 5.457G         | 8    | 5.641G         |
| 9  | 5.481G         | 10   | 5.306G         | 11   | 5.563G         | 12   | 5.425G         |
| 13   | 5.381G         | 14   | 5.322G         | 15   | 5.514G         | 16   | 5.372G         |
| 17   | 5.680G         | 18   | 5.506G         | 19   | 5.350G         | 20   | 5.579G         |
| 21   | 5.688G         | 22   | 5.397G         | 23   | 5.430G         | 24   | 5.532G         |
| 25   | 5.660G         | 26   | 5.523G         | 27   | 5.419G         | 28   | 5.437G         |
| 29   | 5.590G         | 30   | 5.471G         | 31   | 5.310G         | 32   | 5.545G         |
| 33   | 5.712G         | 34   | 5.708G         | 35   | 5.623G         | 36   | 5.536G         |
| 37   | 5.461G         | 38   | 5.607G         | 39   | 5.615G         | 40   | 5.614G         |
| 41   | 5.392G         | 42   | 5.653G         | 43   | 5.354G         | 44   | 5.569G         |
| 45   | 5.443G         | 46   | 5.547G         | 47   | 5.362G         | 48   | 5.459G         |
| 49   | 5.581G         | 50   | 5.538G         | 51   | 5.441G         | 52   | 5.395G         |
| 53   | 5.632G         | 54   | 5.692G         | 55   | 5.363G         | 56   | 5.357G         |
| 57   | 5.436G         | 58   | 5.542G         | 59   | 5.701G         | 60   | 5.410G         |
| 61   | 5.624G         | 62   | 5.628G         | 63   | 5.558G         | 64   | 5.374G         |
| 65   | 5.338G         | 66   | 5.722G         | 67   | 5.529G         | 68   | 5.595G         |
| 69   | 5.676G         | 70   | 5.458G         | 71   | 5.706G         | 72   | 5.442G         |
| 73   | 5.667G         | 74   | 5.477G         | 75   | 5.352G         | 76   | 5.582G         |
| 77   | 5.600G         | 78   | 5.431G         | 79   | 5.633G         | 80   | 5.719G         |
| 81   | 5.332G         | 82   | 5.413G         | 83   | 5.675G         | 84   | 5.399G         |
| 85   | 5.277G         | 86   | 5.500G         | 87   | 5.401G         | 88   | 5.360G         |
| 89   | 5.564G         | 90   | 5.341G         | 91   | 5.377G         | 92   | 5.424G         |
| 93   | 5.639G         | 94   | 5.586G         | 95   | 5.438G         | 96   | 5.593G         |
| 97   | 5.314G         | 98   | 5.635G         | 99   | 5.724G         | 100  | 5.515G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.713G         | 2    | 5.381G         | 3    | 5.665G         | 4    | 5.356G         |
| 5  | 5.413G         | 6    | 5.525G         | 7    | 5.383G         | 8    | 5.667G         |
| 9  | 5.685G         | 10   | 5.297G         | 11   | 5.639G         | 12   | 5.395G         |
| 13   | 5.365G         | 14   | 5.681G         | 15   | 5.579G         | 16   | 5.605G         |
| 17   | 5.557G         | 18   | 5.710G         | 19   | 5.516G         | 20   | 5.721G         |
| 21   | 5.268G         | 22   | 5.701G         | 23   | 5.438G         | 24   | 5.504G         |
| 25   | 5.718G         | 26   | 5.524G         | 27   | 5.464G         | 28   | 5.673G         |
| 29   | 5.638G         | 30   | 5.586G         | 31   | 5.670G         | 32   | 5.535G         |
| 33   | 5.606G         | 34   | 5.580G         | 35   | 5.675G         | 36   | 5.435G         |
| 37   | 5.357G         | 38   | 5.578G         | 39   | 5.645G         | 40   | 5.648G         |
| 41   | 5.432G         | 42   | 5.599G         | 43   | 5.552G         | 44   | 5.614G         |
| 45   | 5.574G         | 46   | 5.482G         | 47   | 5.660G         | 48   | 5.449G         |
| 49   | 5.641G         | 50   | 5.657G         | 51   | 5.470G         | 52   | 5.392G         |
| 53   | 5.360G         | 54   | 5.427G         | 55   | 5.330G         | 56   | 5.359G         |
| 57   | 5.316G         | 58   | 5.671G         | 59   | 5.500G         | 60   | 5.628G         |
| 61   | 5.659G         | 62   | 5.353G         | 63   | 5.664G         | 64   | 5.558G         |
| 65   | 5.453G         | 66   | 5.680G         | 67   | 5.662G         | 68   | 5.501G         |
| 69   | 5.545G         | 70   | 5.355G         | 71   | 5.377G         | 72   | 5.652G         |
| 73   | 5.590G         | 74   | 5.429G         | 75   | 5.390G         | 76   | 5.433G         |
| 77   | 5.272G         | 78   | 5.532G         | 79   | 5.534G         | 80   | 5.404G         |
| 81   | 5.371G         | 82   | 5.367G         | 83   | 5.627G         | 84   | 5.618G         |
| 85   | 5.289G         | 86   | 5.596G         | 87   | 5.704G         | 88   | 5.502G         |
| 89   | 5.287G         | 90   | 5.651G         | 91   | 5.490G         | 92   | 5.426G         |
| 93   | 5.709G         | 94   | 5.370G         | 95   | 5.589G         | 96   | 5.646G         |
| 97   | 5.281G         | 98   | 5.487G         | 99   | 5.602G         | 100  | 5.457G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.705G         | 2    | 5.339G         | 3    | 5.519G         | 4    | 5.458G         |
| 5  | 5.453G         | 6    | 5.421G         | 7    | 5.415G         | 8    | 5.542G         |
| 9  | 5.334G         | 10   | 5.680G         | 11   | 5.686G         | 12   | 5.629G         |
| 13   | 5.639G         | 14   | 5.313G         | 15   | 5.712G         | 16   | 5.536G         |
| 17   | 5.424G         | 18   | 5.391G         | 19   | 5.522G         | 20   | 5.523G         |
| 21   | 5.676G         | 22   | 5.390G         | 23   | 5.701G         | 24   | 5.588G         |
| 25   | 5.362G         | 26   | 5.613G         | 27   | 5.452G         | 28   | 5.704G         |
| 29   | 5.363G         | 30   | 5.491G         | 31   | 5.411G         | 32   | 5.367G         |
| 33   | 5.672G         | 34   | 5.513G         | 35   | 5.565G         | 36   | 5.502G         |
| 37   | 5.264G         | 38   | 5.440G         | 39   | 5.546G         | 40   | 5.350G         |
| 41   | 5.668G         | 42   | 5.611G         | 43   | 5.388G         | 44   | 5.640G         |
| 45   | 5.319G         | 46   | 5.706G         | 47   | 5.628G         | 48   | 5.505G         |
| 49   | 5.495G         | 50   | 5.584G         | 51   | 5.660G         | 52   | 5.435G         |
| 53   | 5.287G         | 54   | 5.326G         | 55   | 5.699G         | 56   | 5.579G         |
| 57   | 5.284G         | 58   | 5.295G         | 59   | 5.474G         | 60   | 5.651G         |
| 61   | 5.564G         | 62   | 5.487G         | 63   | 5.478G         | 64   | 5.551G         |
| 65   | 5.445G         | 66   | 5.413G         | 67   | 5.521G         | 68   | 5.365G         |
| 69   | 5.503G         | 70   | 5.404G         | 71   | 5.402G         | 72   | 5.645G         |
| 73   | 5.456G         | 74   | 5.436G         | 75   | 5.548G         | 76   | 5.568G         |
| 77   | 5.372G         | 78   | 5.692G         | 79   | 5.333G         | 80   | 5.571G         |
| 81   | 5.356G         | 82   | 5.422G         | 83   | 5.716G         | 84   | 5.608G         |
| 85   | 5.634G         | 86   | 5.625G         | 87   | 5.371G         | 88   | 5.635G         |
| 89   | 5.309G         | 90   | 5.358G         | 91   | 5.577G         | 92   | 5.427G         |
| 93   | 5.461G         | 94   | 5.377G         | 95   | 5.499G         | 96   | 5.504G         |
| 97   | 5.392G         | 98   | 5.648G         | 99   | 5.683G         | 100  | 5.417G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.472G         | 2    | 5.534G         | 3    | 5.632G         | 4    | 5.672G         |
| 5  | 5.284G         | 6    | 5.570G         | 7    | 5.567G         | 8    | 5.565G         |
| 9  | 5.584G         | 10   | 5.590G         | 11   | 5.621G         | 12   | 5.471G         |
| 13   | 5.585G         | 14   | 5.540G         | 15   | 5.696G         | 16   | 5.445G         |
| 17   | 5.269G         | 18   | 5.619G         | 19   | 5.332G         | 20   | 5.701G         |
| 21   | 5.330G         | 22   | 5.671G         | 23   | 5.640G         | 24   | 5.663G         |
| 25   | 5.642G         | 26   | 5.547G         | 27   | 5.530G         | 28   | 5.368G         |
| 29   | 5.616G         | 30   | 5.465G         | 31   | 5.607G         | 32   | 5.436G         |
| 33   | 5.648G         | 34   | 5.425G         | 35   | 5.488G         | 36   | 5.381G         |
| 37   | 5.414G         | 38   | 5.697G         | 39   | 5.421G         | 40   | 5.357G         |
| 41   | 5.355G         | 42   | 5.518G         | 43   | 5.310G         | 44   | 5.407G         |
| 45   | 5.334G         | 46   | 5.692G         | 47   | 5.684G         | 48   | 5.685G         |
| 49   | 5.350G         | 50   | 5.337G         | 51   | 5.611G         | 52   | 5.718G         |
| 53   | 5.526G         | 54   | 5.483G         | 55   | 5.695G         | 56   | 5.586G         |
| 57   | 5.474G         | 58   | 5.635G         | 59   | 5.336G         | 60   | 5.675G         |
| 61   | 5.435G         | 62   | 5.674G         | 63   | 5.325G         | 64   | 5.505G         |
| 65   | 5.615G         | 66   | 5.520G         | 67   | 5.416G         | 68   | 5.658G         |
| 69   | 5.305G         | 70   | 5.562G         | 71   | 5.542G         | 72   | 5.402G         |
| 73   | 5.639G         | 74   | 5.630G         | 75   | 5.419G         | 76   | 5.572G         |
| 77   | 5.494G         | 78   | 5.380G         | 79   | 5.427G         | 80   | 5.578G         |
| 81   | 5.403G         | 82   | 5.460G         | 83   | 5.449G         | 84   | 5.724G         |
| 85   | 5.554G         | 86   | 5.430G         | 87   | 5.691G         | 88   | 5.596G         |
| 89   | 5.660G         | 90   | 5.662G         | 91   | 5.643G         | 92   | 5.545G         |
| 93   | 5.647G         | 94   | 5.694G         | 95   | 5.625G         | 96   | 5.614G         |
| 97   | 5.426G         | 98   | 5.464G         | 99   | 5.558G         | 100  | 5.666G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.667G         | 2    | 5.359G         | 3    | 5.650G         | 4    | 5.433G         |
| 5  | 5.409G         | 6    | 5.572G         | 7    | 5.340G         | 8    | 5.436G         |
| 9  | 5.712G         | 10   | 5.325G         | 11   | 5.380G         | 12   | 5.631G         |
| 13   | 5.624G         | 14   | 5.450G         | 15   | 5.642G         | 16   | 5.349G         |
| 17   | 5.612G         | 18   | 5.697G         | 19   | 5.476G         | 20   | 5.559G         |
| 21   | 5.492G         | 22   | 5.426G         | 23   | 5.657G         | 24   | 5.669G         |
| 25   | 5.518G         | 26   | 5.294G         | 27   | 5.524G         | 28   | 5.455G         |
| 29   | 5.315G         | 30   | 5.311G         | 31   | 5.564G         | 32   | 5.574G         |
| 33   | 5.333G         | 34   | 5.662G         | 35   | 5.404G         | 36   | 5.576G         |
| 37   | 5.313G         | 38   | 5.582G         | 39   | 5.393G         | 40   | 5.412G         |
| 41   | 5.528G         | 42   | 5.640G         | 43   | 5.628G         | 44   | 5.672G         |
| 45   | 5.701G         | 46   | 5.444G         | 47   | 5.482G         | 48   | 5.651G         |
| 49   | 5.291G         | 50   | 5.725G         | 51   | 5.364G         | 52   | 5.373G         |
| 53   | 5.397G         | 54   | 5.653G         | 55   | 5.378G         | 56   | 5.346G         |
| 57   | 5.587G         | 58   | 5.549G         | 59   | 5.614G         | 60   | 5.396G         |
| 61   | 5.585G         | 62   | 5.299G         | 63   | 5.664G         | 64   | 5.480G         |
| 65   | 5.376G         | 66   | 5.301G         | 67   | 5.496G         | 68   | 5.428G         |
| 69   | 5.388G         | 70   | 5.410G         | 71   | 5.556G         | 72   | 5.389G         |
| 73   | 5.490G         | 74   | 5.675G         | 75   | 5.705G         | 76   | 5.629G         |
| 77   | 5.626G         | 78   | 5.342G         | 79   | 5.371G         | 80   | 5.526G         |
| 81   | 5.605G         | 82   | 5.477G         | 83   | 5.402G         | 84   | 5.690G         |
| 85   | 5.568G         | 86   | 5.513G         | 87   | 5.703G         | 88   | 5.451G         |
| 89   | 5.670G         | 90   | 5.550G         | 91   | 5.557G         | 92   | 5.719G         |
| 93   | 5.413G         | 94   | 5.553G         | 95   | 5.613G         | 96   | 5.500G         |
| 97   | 5.604G         | 98   | 5.303G         | 99   | 5.689G         | 100  | 5.661G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.605G         | 2    | 5.692G         | 3    | 5.596G         | 4    | 5.412G         |
| 5  | 5.577G         | 6    | 5.372G         | 7    | 5.320G         | 8    | 5.385G         |
| 9  | 5.509G         | 10   | 5.361G         | 11   | 5.406G         | 12   | 5.671G         |
| 13   | 5.449G         | 14   | 5.428G         | 15   | 5.588G         | 16   | 5.707G         |
| 17   | 5.543G         | 18   | 5.659G         | 19   | 5.632G         | 20   | 5.695G         |
| 21   | 5.649G         | 22   | 5.492G         | 23   | 5.446G         | 24   | 5.401G         |
| 25   | 5.416G         | 26   | 5.286G         | 27   | 5.506G         | 28   | 5.677G         |
| 29   | 5.400G         | 30   | 5.691G         | 31   | 5.655G         | 32   | 5.513G         |
| 33   | 5.493G         | 34   | 5.624G         | 35   | 5.636G         | 36   | 5.590G         |
| 37   | 5.585G         | 38   | 5.608G         | 39   | 5.518G         | 40   | 5.398G         |
| 41   | 5.456G         | 42   | 5.462G         | 43   | 5.650G         | 44   | 5.345G         |
| 45   | 5.524G         | 46   | 5.441G         | 47   | 5.500G         | 48   | 5.607G         |
| 49   | 5.499G         | 50   | 5.323G         | 51   | 5.348G         | 52   | 5.432G         |
| 53   | 5.303G         | 54   | 5.447G         | 55   | 5.610G         | 56   | 5.681G         |
| 57   | 5.473G         | 58   | 5.474G         | 59   | 5.668G         | 60   | 5.679G         |
| 61   | 5.705G         | 62   | 5.665G         | 63   | 5.498G         | 64   | 5.431G         |
| 65   | 5.443G         | 66   | 5.475G         | 67   | 5.480G         | 68   | 5.552G         |
| 69   | 5.402G         | 70   | 5.356G         | 71   | 5.688G         | 72   | 5.442G         |
| 73   | 5.660G         | 74   | 5.554G         | 75   | 5.631G         | 76   | 5.572G         |
| 77   | 5.536G         | 78   | 5.561G         | 79   | 5.528G         | 80   | 5.579G         |
| 81   | 5.430G         | 82   | 5.522G         | 83   | 5.724G         | 84   | 5.556G         |
| 85   | 5.501G         | 86   | 5.682G         | 87   | 5.581G         | 88   | 5.545G         |
| 89   | 5.461G         | 90   | 5.359G         | 91   | 5.658G         | 92   | 5.704G         |
| 93   | 5.380G         | 94   | 5.673G         | 95   | 5.669G         | 96   | 5.502G         |
| 97   | 5.301G         | 98   | 5.325G         | 99   | 5.369G         | 100  | 5.377G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.594G         | 2    | 5.527G         | 3    | 5.665G         | 4    | 5.458G         |
| 5  | 5.498G         | 6    | 5.510G         | 7    | 5.388G         | 8    | 5.441G         |
| 9  | 5.275G         | 10   | 5.654G         | 11   | 5.408G         | 12   | 5.650G         |
| 13   | 5.512G         | 14   | 5.612G         | 15   | 5.502G         | 16   | 5.334G         |
| 17   | 5.405G         | 18   | 5.500G         | 19   | 5.678G         | 20   | 5.370G         |
| 21   | 5.602G         | 22   | 5.306G         | 23   | 5.596G         | 24   | 5.522G         |
| 25   | 5.710G         | 26   | 5.331G         | 27   | 5.690G         | 28   | 5.669G         |
| 29   | 5.406G         | 30   | 5.329G         | 31   | 5.526G         | 32   | 5.340G         |
| 33   | 5.332G         | 34   | 5.718G         | 35   | 5.635G         | 36   | 5.342G         |
| 37   | 5.290G         | 38   | 5.547G         | 39   | 5.586G         | 40   | 5.562G         |
| 41   | 5.493G         | 42   | 5.686G         | 43   | 5.663G         | 44   | 5.598G         |
| 45   | 5.620G         | 46   | 5.401G         | 47   | 5.371G         | 48   | 5.434G         |
| 49   | 5.357G         | 50   | 5.708G         | 51   | 5.400G         | 52   | 5.711G         |
| 53   | 5.582G         | 54   | 5.443G         | 55   | 5.713G         | 56   | 5.343G         |
| 57   | 5.439G         | 58   | 5.575G         | 59   | 5.658G         | 60   | 5.397G         |
| 61   | 5.302G         | 62   | 5.558G         | 63   | 5.667G         | 64   | 5.697G         |
| 65   | 5.689G         | 66   | 5.378G         | 67   | 5.395G         | 68   | 5.628G         |
| 69   | 5.415G         | 70   | 5.322G         | 71   | 5.549G         | 72   | 5.546G         |
| 73   | 5.380G         | 74   | 5.348G         | 75   | 5.377G         | 76   | 5.442G         |
| 77   | 5.698G         | 78   | 5.438G         | 79   | 5.608G         | 80   | 5.576G         |
| 81   | 5.672G         | 82   | 5.477G         | 83   | 5.535G         | 84   | 5.682G         |
| 85   | 5.564G         | 86   | 5.555G         | 87   | 5.638G         | 88   | 5.482G         |
| 89   | 5.583G         | 90   | 5.455G         | 91   | 5.656G         | 92   | 5.707G         |
| 93   | 5.404G         | 94   | 5.384G         | 95   | 5.326G         | 96   | 5.679G         |
| 97   | 5.276G         | 98   | 5.376G         | 99   | 5.589G         | 100  | 5.369G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.485G         | 2    | 5.302G         | 3    | 5.450G         | 4    | 5.436G         |
| 5  | 5.688G         | 6    | 5.375G         | 7    | 5.492G         | 8    | 5.682G         |
| 9  | 5.467G         | 10   | 5.655G         | 11   | 5.391G         | 12   | 5.561G         |
| 13   | 5.395G         | 14   | 5.486G         | 15   | 5.452G         | 16   | 5.432G         |
| 17   | 5.412G         | 18   | 5.357G         | 19   | 5.327G         | 20   | 5.685G         |
| 21   | 5.347G         | 22   | 5.511G         | 23   | 5.582G         | 24   | 5.581G         |
| 25   | 5.632G         | 26   | 5.590G         | 27   | 5.529G         | 28   | 5.372G         |
| 29   | 5.416G         | 30   | 5.351G         | 31   | 5.547G         | 32   | 5.714G         |
| 33   | 5.438G         | 34   | 5.568G         | 35   | 5.681G         | 36   | 5.622G         |
| 37   | 5.273G         | 38   | 5.465G         | 39   | 5.505G         | 40   | 5.691G         |
| 41   | 5.305G         | 42   | 5.411G         | 43   | 5.342G         | 44   | 5.455G         |
| 45   | 5.530G         | 46   | 5.674G         | 47   | 5.358G         | 48   | 5.433G         |
| 49   | 5.266G         | 50   | 5.477G         | 51   | 5.680G         | 52   | 5.677G         |
| 53   | 5.603G         | 54   | 5.301G         | 55   | 5.623G         | 56   | 5.423G         |
| 57   | 5.466G         | 58   | 5.621G         | 59   | 5.546G         | 60   | 5.672G         |
| 61   | 5.393G         | 62   | 5.458G         | 63   | 5.370G         | 64   | 5.588G         |
| 65   | 5.631G         | 66   | 5.724G         | 67   | 5.427G         | 68   | 5.576G         |
| 69   | 5.593G         | 70   | 5.429G         | 71   | 5.533G         | 72   | 5.425G         |
| 73   | 5.687G         | 74   | 5.646G         | 75   | 5.562G         | 76   | 5.525G         |
| 77   | 5.535G         | 78   | 5.723G         | 79   | 5.703G         | 80   | 5.397G         |
| 81   | 5.369G         | 82   | 5.651G         | 83   | 5.647G         | 84   | 5.721G         |
| 85   | 5.392G         | 86   | 5.717G         | 87   | 5.441G         | 88   | 5.495G         |
| 89   | 5.488G         | 90   | 5.352G         | 91   | 5.440G         | 92   | 5.560G         |
| 93   | 5.545G         | 94   | 5.523G         | 95   | 5.354G         | 96   | 5.526G         |
| 97   | 5.587G         | 98   | 5.313G         | 99   | 5.567G         | 100  | 5.496G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.501G         | 2    | 5.332G         | 3    | 5.571G         | 4    | 5.686G         |
| 5  | 5.438G         | 6    | 5.529G         | 7    | 5.534G         | 8    | 5.693G         |
| 9  | 5.543G         | 10   | 5.723G         | 11   | 5.406G         | 12   | 5.455G         |
| 13   | 5.354G         | 14   | 5.540G         | 15   | 5.484G         | 16   | 5.604G         |
| 17   | 5.428G         | 18   | 5.444G         | 19   | 5.340G         | 20   | 5.549G         |
| 21   | 5.688G         | 22   | 5.283G         | 23   | 5.687G         | 24   | 5.351G         |
| 25   | 5.350G         | 26   | 5.434G         | 27   | 5.486G         | 28   | 5.451G         |
| 29   | 5.644G         | 30   | 5.365G         | 31   | 5.464G         | 32   | 5.708G         |
| 33   | 5.369G         | 34   | 5.319G         | 35   | 5.696G         | 36   | 5.372G         |
| 37   | 5.493G         | 38   | 5.650G         | 39   | 5.422G         | 40   | 5.640G         |
| 41   | 5.704G         | 42   | 5.496G         | 43   | 5.530G         | 44   | 5.586G         |
| 45   | 5.310G         | 46   | 5.634G         | 47   | 5.520G         | 48   | 5.559G         |
| 49   | 5.680G         | 50   | 5.603G         | 51   | 5.664G         | 52   | 5.513G         |
| 53   | 5.703G         | 54   | 5.408G         | 55   | 5.318G         | 56   | 5.576G         |
| 57   | 5.724G         | 58   | 5.511G         | 59   | 5.614G         | 60   | 5.683G         |
| 61   | 5.718G         | 62   | 5.294G         | 63   | 5.347G         | 64   | 5.466G         |
| 65   | 5.450G         | 66   | 5.448G         | 67   | 5.580G         | 68   | 5.446G         |
| 69   | 5.489G         | 70   | 5.447G         | 71   | 5.449G         | 72   | 5.574G         |
| 73   | 5.602G         | 74   | 5.312G         | 75   | 5.548G         | 76   | 5.584G         |
| 77   | 5.297G         | 78   | 5.582G         | 79   | 5.374G         | 80   | 5.516G         |
| 81   | 5.410G         | 82   | 5.555G         | 83   | 5.681G         | 84   | 5.398G         |
| 85   | 5.572G         | 86   | 5.522G         | 87   | 5.405G         | 88   | 5.441G         |
| 89   | 5.565G         | 90   | 5.592G         | 91   | 5.609G         | 92   | 5.689G         |
| 93   | 5.391G         | 94   | 5.333G         | 95   | 5.465G         | 96   | 5.507G         |
| 97   | 5.715G         | 98   | 5.394G         | 99   | 5.700G         | 100  | 5.356G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.399G         | 2    | 5.652G         | 3    | 5.582G         | 4    | 5.697G         |
| 5  | 5.452G         | 6    | 5.545G         | 7    | 5.380G         | 8    | 5.343G         |
| 9  | 5.725G         | 10   | 5.592G         | 11   | 5.529G         | 12   | 5.405G         |
| 13   | 5.253G         | 14   | 5.643G         | 15   | 5.598G         | 16   | 5.617G         |
| 17   | 5.593G         | 18   | 5.560G         | 19   | 5.326G         | 20   | 5.534G         |
| 21   | 5.508G         | 22   | 5.372G         | 23   | 5.682G         | 24   | 5.491G         |
| 25   | 5.495G         | 26   | 5.396G         | 27   | 5.503G         | 28   | 5.477G         |
| 29   | 5.427G         | 30   | 5.501G         | 31   | 5.430G         | 32   | 5.589G         |
| 33   | 5.571G         | 34   | 5.712G         | 35   | 5.658G         | 36   | 5.665G         |
| 37   | 5.371G         | 38   | 5.553G         | 39   | 5.569G         | 40   | 5.717G         |
| 41   | 5.621G         | 42   | 5.517G         | 43   | 5.699G         | 44   | 5.566G         |
| 45   | 5.428G         | 46   | 5.627G         | 47   | 5.583G         | 48   | 5.688G         |
| 49   | 5.437G         | 50   | 5.448G         | 51   | 5.445G         | 52   | 5.570G         |
| 53   | 5.375G         | 54   | 5.562G         | 55   | 5.364G         | 56   | 5.488G         |
| 57   | 5.677G         | 58   | 5.403G         | 59   | 5.502G         | 60   | 5.523G         |
| 61   | 5.678G         | 62   | 5.536G         | 63   | 5.620G         | 64   | 5.466G         |
| 65   | 5.596G         | 66   | 5.454G         | 67   | 5.316G         | 68   | 5.673G         |
| 69   | 5.645G         | 70   | 5.357G         | 71   | 5.530G         | 72   | 5.378G         |
| 73   | 5.458G         | 74   | 5.511G         | 75   | 5.516G         | 76   | 5.440G         |
| 77   | 5.609G         | 78   | 5.702G         | 79   | 5.705G         | 80   | 5.494G         |
| 81   | 5.550G         | 82   | 5.515G         | 83   | 5.548G         | 84   | 5.547G         |
| 85   | 5.490G         | 86   | 5.676G         | 87   | 5.415G         | 88   | 5.684G         |
| 89   | 5.681G         | 90   | 5.659G         | 91   | 5.449G         | 92   | 5.576G         |
| 93   | 5.407G         | 94   | 5.351G         | 95   | 5.475G         | 96   | 5.376G         |
| 97   | 5.614G         | 98   | 5.637G         | 99   | 5.626G         | 100  | 5.470G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.677G         | 2    | 5.335G         | 3    | 5.532G         | 4    | 5.602G         |
| 5  | 5.509G         | 6    | 5.716G         | 7    | 5.607G         | 8    | 5.409G         |
| 9  | 5.486G         | 10   | 5.714G         | 11   | 5.619G         | 12   | 5.341G         |
| 13   | 5.424G         | 14   | 5.401G         | 15   | 5.723G         | 16   | 5.549G         |
| 17   | 5.407G         | 18   | 5.298G         | 19   | 5.681G         | 20   | 5.517G         |
| 21   | 5.488G         | 22   | 5.295G         | 23   | 5.387G         | 24   | 5.724G         |
| 25   | 5.468G         | 26   | 5.639G         | 27   | 5.597G         | 28   | 5.477G         |
| 29   | 5.462G         | 30   | 5.692G         | 31   | 5.332G         | 32   | 5.617G         |
| 33   | 5.334G         | 34   | 5.611G         | 35   | 5.574G         | 36   | 5.600G         |
| 37   | 5.637G         | 38   | 5.672G         | 39   | 5.711G         | 40   | 5.514G         |
| 41   | 5.627G         | 42   | 5.328G         | 43   | 5.493G         | 44   | 5.569G         |
| 45   | 5.715G         | 46   | 5.344G         | 47   | 5.508G         | 48   | 5.454G         |
| 49   | 5.541G         | 50   | 5.442G         | 51   | 5.423G         | 52   | 5.720G         |
| 53   | 5.542G         | 54   | 5.481G         | 55   | 5.684G         | 56   | 5.670G         |
| 57   | 5.675G         | 58   | 5.392G         | 59   | 5.479G         | 60   | 5.586G         |
| 61   | 5.435G         | 62   | 5.393G         | 63   | 5.550G         | 64   | 5.487G         |
| 65   | 5.430G         | 66   | 5.482G         | 67   | 5.444G         | 68   | 5.567G         |
| 69   | 5.311G         | 70   | 5.667G         | 71   | 5.377G         | 72   | 5.504G         |
| 73   | 5.301G         | 74   | 5.365G         | 75   | 5.626G         | 76   | 5.525G         |
| 77   | 5.632G         | 78   | 5.646G         | 79   | 5.445G         | 80   | 5.618G         |
| 81   | 5.548G         | 82   | 5.536G         | 83   | 5.350G         | 84   | 5.671G         |
| 85   | 5.421G         | 86   | 5.510G         | 87   | 5.582G         | 88   | 5.492G         |
| 89   | 5.461G         | 90   | 5.491G         | 91   | 5.397G         | 92   | 5.434G         |
| 93   | 5.357G         | 94   | 5.463G         | 95   | 5.609G         | 96   | 5.403G         |
| 97   | 5.661G         | 98   | 5.596G         | 99   | 5.469G         | 100  | 5.655G         |



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

| SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.434G         | 2    | 5.343G         | 3    | 5.321G         | 4    | 5.492G         |
| 5    | 5.358G         | 6    | 5.702G         | 7    | 5.457G         | 8    | 5.519G         |
| 9    | 5.423G         | 10   | 5.376G         | 11   | 5.309G         | 12   | 5.399G         |
| 13   | 5.394G         | 14   | 5.725G         | 15   | 5.444G         | 16   | 5.518G         |
| 17   | 5.441G         | 18   | 5.478G         | 19   | 5.614G         | 20   | 5.369G         |
| 21   | 5.266G         | 22   | 5.374G         | 23   | 5.473G         | 24   | 5.462G         |
| 25   | 5.601G         | 26   | 5.616G         | 27   | 5.413G         | 28   | 5.628G         |
| 29   | 5.422G         | 30   | 5.682G         | 31   | 5.681G         | 32   | 5.581G         |
| 33   | 5.283G         | 34   | 5.494G         | 35   | 5.612G         | 36   | 5.656G         |
| 37   | 5.522G         | 38   | 5.326G         | 39   | 5.385G         | 40   | 5.537G         |
| 41   | 5.498G         | 42   | 5.716G         | 43   | 5.591G         | 44   | 5.460G         |
| 45   | 5.539G         | 46   | 5.348G         | 47   | 5.572G         | 48   | 5.644G         |
| 49   | 5.404G         | 50   | 5.347G         | 51   | 5.639G         | 52   | 5.449G         |
| 53   | 5.286G         | 54   | 5.393G         | 55   | 5.701G         | 56   | 5.467G         |
| 57   | 5.538G         | 58   | 5.533G         | 59   | 5.596G         | 60   | 5.365G         |
| 61   | 5.583G         | 62   | 5.373G         | 63   | 5.638G         | 64   | 5.392G         |
| 65   | 5.474G         | 66   | 5.603G         | 67   | 5.660G         | 68   | 5.683G         |
| 69   | 5.345G         | 70   | 5.679G         | 71   | 5.632G         | 72   | 5.390G         |
| 73   | 5.610G         | 74   | 5.415G         | 75   | 5.698G         | 76   | 5.599G         |
| 77   | 5.562G         | 78   | 5.445G         | 79   | 5.443G         | 80   | 5.487G         |
| 81   | 5.547G         | 82   | 5.625G         | 83   | 5.352G         | 84   | 5.500G         |
| 85   | 5.409G         | 86   | 5.621G         | 87   | 5.517G         | 88   | 5.450G         |
| 89   | 5.618G         | 90   | 5.318G         | 91   | 5.710G         | 92   | 5.435G         |
| 93   | 5.275G         | 94   | 5.407G         | 95   | 5.331G         | 96   | 5.641G         |
| 97   | 5.695G         | 98   | 5.658G         | 99   | 5.503G         | 100  | 5.420G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.716G         | 2    | 5.493G         | 3    | 5.301G         | 4    | 5.546G         |
| 5  | 5.487G         | 6    | 5.519G         | 7    | 5.553G         | 8    | 5.690G         |
| 9  | 5.688G         | 10   | 5.474G         | 11   | 5.409G         | 12   | 5.635G         |
| 13   | 5.273G         | 14   | 5.286G         | 15   | 5.695G         | 16   | 5.515G         |
| 17   | 5.326G         | 18   | 5.332G         | 19   | 5.714G         | 20   | 5.459G         |
| 21   | 5.704G         | 22   | 5.294G         | 23   | 5.649G         | 24   | 5.587G         |
| 25   | 5.656G         | 26   | 5.465G         | 27   | 5.427G         | 28   | 5.594G         |
| 29   | 5.550G         | 30   | 5.369G         | 31   | 5.611G         | 32   | 5.593G         |
| 33   | 5.699G         | 34   | 5.305G         | 35   | 5.578G         | 36   | 5.641G         |
| 37   | 5.382G         | 38   | 5.672G         | 39   | 5.420G         | 40   | 5.351G         |
| 41   | 5.633G         | 42   | 5.616G         | 43   | 5.589G         | 44   | 5.713G         |
| 45   | 5.265G         | 46   | 5.623G         | 47   | 5.490G         | 48   | 5.577G         |
| 49   | 5.535G         | 50   | 5.484G         | 51   | 5.362G         | 52   | 5.371G         |
| 53   | 5.705G         | 54   | 5.639G         | 55   | 5.475G         | 56   | 5.431G         |
| 57   | 5.612G         | 58   | 5.529G         | 59   | 5.327G         | 60   | 5.392G         |
| 61   | 5.682G         | 62   | 5.491G         | 63   | 5.384G         | 64   | 5.450G         |
| 65   | 5.378G         | 66   | 5.569G         | 67   | 5.418G         | 68   | 5.494G         |
| 69   | 5.354G         | 70   | 5.456G         | 71   | 5.543G         | 72   | 5.455G         |
| 73   | 5.627G         | 74   | 5.687G         | 75   | 5.661G         | 76   | 5.663G         |
| 77   | 5.278G         | 78   | 5.625G         | 79   | 5.526G         | 80   | 5.443G         |
| 81   | 5.473G         | 82   | 5.548G         | 83   | 5.567G         | 84   | 5.469G         |
| 85   | 5.703G         | 86   | 5.581G         | 87   | 5.397G         | 88   | 5.660G         |
| 89   | 5.527G         | 90   | 5.423G         | 91   | 5.439G         | 92   | 5.579G         |
| 93   | 5.365G         | 94   | 5.628G         | 95   | 5.658G         | 96   | 5.502G         |
| 97   | 5.323G         | 98   | 5.353G         | 99   | 5.504G         | 100  | 5.555G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 |                |      |                |      |                |      |                |
|--|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#   | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1  | 5.602G         | 2    | 5.377G         | 3    | 5.527G         | 4    | 5.475G         |
| 5  | 5.663G         | 6    | 5.637G         | 7    | 5.685G         | 8    | 5.517G         |
| 9  | 5.684G         | 10   | 5.541G         | 11   | 5.312G         | 12   | 5.503G         |
| 13   | 5.651G         | 14   | 5.650G         | 15   | 5.636G         | 16   | 5.662G         |
| 17   | 5.267G         | 18   | 5.321G         | 19   | 5.450G         | 20   | 5.706G         |
| 21   | 5.505G         | 22   | 5.599G         | 23   | 5.659G         | 24   | 5.460G         |
| 25   | 5.502G         | 26   | 5.448G         | 27   | 5.723G         | 28   | 5.454G         |
| 29   | 5.560G         | 30   | 5.444G         | 31   | 5.661G         | 32   | 5.485G         |
| 33   | 5.260G         | 34   | 5.613G         | 35   | 5.710G         | 36   | 5.335G         |
| 37   | 5.304G         | 38   | 5.563G         | 39   | 5.472G         | 40   | 5.386G         |
| 41   | 5.696G         | 42   | 5.714G         | 43   | 5.529G         | 44   | 5.658G         |
| 45   | 5.363G         | 46   | 5.585G         | 47   | 5.687G         | 48   | 5.676G         |
| 49   | 5.607G         | 50   | 5.653G         | 51   | 5.718G         | 52   | 5.587G         |
| 53   | 5.632G         | 54   | 5.603G         | 55   | 5.703G         | 56   | 5.542G         |
| 57   | 5.628G         | 58   | 5.422G         | 59   | 5.390G         | 60   | 5.447G         |
| 61   | 5.709G         | 62   | 5.570G         | 63   | 5.581G         | 64   | 5.464G         |
| 65   | 5.673G         | 66   | 5.540G         | 67   | 5.649G         | 68   | 5.430G         |
| 69   | 5.494G         | 70   | 5.445G         | 71   | 5.695G         | 72   | 5.701G         |
| 73   | 5.594G         | 74   | 5.700G         | 75   | 5.569G         | 76   | 5.343G         |
| 77   | 5.455G         | 78   | 5.665G         | 79   | 5.558G         | 80   | 5.677G         |
| 81   | 5.583G         | 82   | 5.491G         | 83   | 5.489G         | 84   | 5.419G         |
| 85   | 5.559G         | 86   | 5.521G         | 87   | 5.631G         | 88   | 5.629G         |
| 89   | 5.688G         | 90   | 5.690G         | 91   | 5.348G         | 92   | 5.466G         |
| 93   | 5.387G         | 94   | 5.370G         | 95   | 5.352G         | 96   | 5.383G         |
| 97   | 5.499G         | 98   | 5.608G         | 99   | 5.528G         | 100  | 5.578G         |



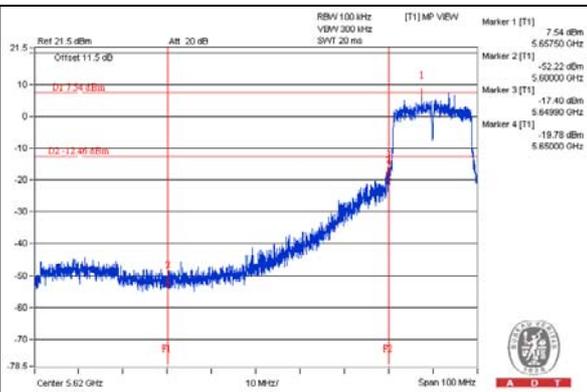
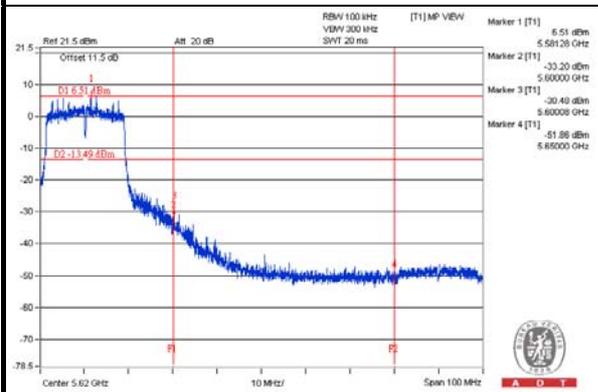
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### 10. APPENDIX-C

### MASTER MODE

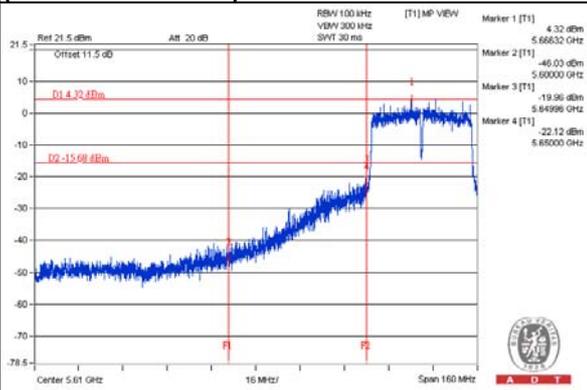
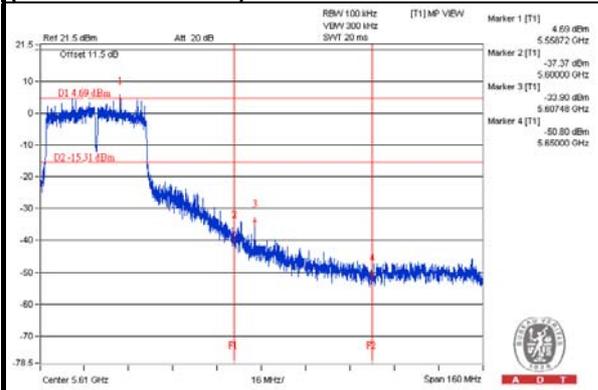
### NOTCH BAND IN 5600-5650MHz

Verify that the 5600 – 5650 MHz band is notched.  
Test results demonstrating last channel shall not exceed the band edge on 5600~5650MHz.



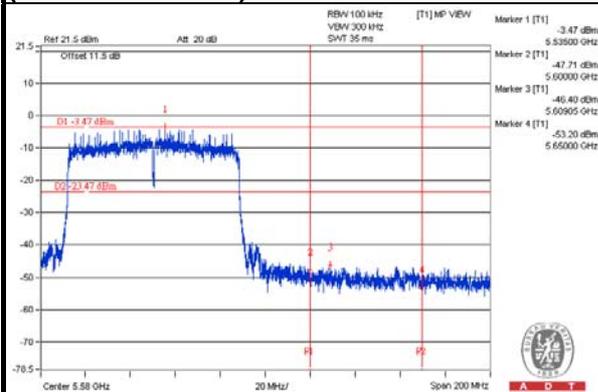
**802.11ac (VHT20) MODULATION  
(CH 116: 5580MHz)**

**802.11ac (VHT20) MODULATION  
(CH 132: 5660MHz)**



**802.11ac (VHT40) MODULATION  
(CH 110: 5550MHz)**

**802.11ac (VHT40) MODULATION  
(CH 134: 5670MHz)**



**802.11ac (VHT80) MODULATION  
(CH 106: 5530MHz)**

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